



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

- OCTOBER 2011 -

CLIENTS:

**Civil Engineering and Development
Department**

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

14 November 2011

Ref.: AACWBIECEM00_0_2081L.11

14 November 2011

By Post and Fax (2691 2649)

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

Attention: Mr. Kelvin CHENG

Dear Sir,

**Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Monthly Environmental Monitoring and Audit Report (October 2011)
for EP-364/2009/A, 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**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for October 2011 dated 14 November 2011.

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

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

Yours sincerely,



David Yeung
Independent Environmental Checker

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

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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – October 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 September 2011 to 27th October 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

- ELS works for basement construction for 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
- Installation of couplers, cable detection, trial trench and pre-drilling in CR3
- Site investigation and pre-drilling works
- Diaphragm wall construction
- Hoarding erection

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

- Construction works were completed and surrendered on 11 Feb 2011

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 for Area 3.
- Diaphragm wall construction works for CWB (stage 1) and SCL Protection 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 works at WCR1 area.
- Diaphragm wall construction at WCR1 area.
- Toe grout at WCR1 area.
- Shear pin at WCR1 area.
- Pumping test wells at WCR1 area.
- King Post at WCR1 area.

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

- Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4
- Diaphragm wall construction at TS1 and TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Marine Pre-drilling
- Remove existing dolphin
- Preparation works and removal of existing marine piles
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Pretreatment
- Construction of Guide Wall

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 End of Podium on a weekly basis. **Two limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 7 and 25 October 2011 during restricted hour.** After checking contractors' work schedules and investigation found that no construction works were conducted and traffic noises as major noise sources contributed in the noise monitoring. **Moreover, one limit level exceedance was recorded at M7e - International Finance Centre (Eastern End of Podium) on 11 October 2011 during day time.** After checking contractors' work schedules and investigation found that construction works were conducted as the major noise sources contributed in the noise monitoring. **It was considered that the exceedances were not related at M1a but related at M7e. Also, no action level exceedance was recorded in this reporting month.**
- 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 monitoring was conducted during the mentioned periods. Also, 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; CMA2a - Causeway Bay Community Center; CMA3a - CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5a - Children Garden opposite to Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western wing on every six days basis. No action and limit level exceedance were recorded in the reporting period. The monitoring station was temporary suspension until obtainment of a representative long-term air monitoring station on 18 September 2011. Inspection for new location searching was conducted during October 2011. A long-term monitoring station was found and confirmed at oil street temporary FEHD Depot on 2 November 2011. Reinstallation was pended to conduct on 12 November 2011.

Complaints, Notifications of Summons and Successful Prosecutions

- vi. There was [one environmental complaint received on 14 October 2011](#). No further complaint was received after follow-up action and investigation in this reporting month.

Site Inspections and Audit

- vii. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/15, HY/2009/17, HY/2009/18, HY/2009/19, HK/2009/01 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

- ELS works for basement construction for 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
- Installation of couplers, cable detection, trial trench and pre-drilling in CR3
- Site investigation and pre-drilling works
- Diaphragm wall construction
- Hoarding erection

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

- Construction works were completed and surrendered on 11 Feb 2011

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

- Diaphragm wall construction works for both CWB and SCL Protection Works within HKCEC 1.
- Site investigation works at north bank of HKCEC water Channel (from CH 200 to CH260).

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 works.
- Toe grout, Shear pile, Pumping test and King Post 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 preparation works at TS4
- Diaphragm wall construction at TS1 and TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Preparation works and removal of existing marine piles
- Pre-drilling works for bored pile and Diaphragm wall
- Marine Pre-drilling
- Remove existing dolphin
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Pretreatment
- Construction of Guide Wall
- D-wall and Barrette Piling
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T

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 September to 27th October 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***

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 may be either constructed or operated. **Table 2.1** summarises the five individual DPs under this Project. **Figure 2.1** shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

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

2.3 Division of the Project Responsibility

2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits 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, Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) was commenced on 13 July 2011. The details of individual contracts are summarized in **Table 2.2**.

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
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	DP1, DP2	25 August 2011

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
	Kong Convention and Exhibition Centre – Tunnel Works		
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	13 July 2011
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
		Site Agent	Mr. Tony Au	9725 5874	
		Sub Agent	Mr. Johnny Wong	9725 5870	
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
		Environmental Consultant	Mr. Jimmy Cheng	2965 0898	2556 9172
Chun Wo – Leader Joint Venture	Contractor under Contract no.	Site Agent	Mr. Paul Yu	9456 9819	2634 1626
		Operation Manager	Mr. Lau Yee Ching	9466 3918	



Party	Role	Post	Name	Contact No.	Contact Fax
	HK/2009/01	Construction Manager	Mr Jerry Siu	9493 3664	
		Construction Manager	Mr Ricky Lai	9487 6549	
		Construction Manager	Mr KK Yuen	3498 1213	
		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. Mak Kam Wing	3658-3044	
		Deputy Site Agent	Mr. Anthony Wu	3658-3004	
		Quality & Environmental Manager	Mr. C.P. Ho	3658-3000	
		Environmental Officer	Ms 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	Mr. Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Mr. Simon Wong	9281 4346	
		Environmental Manager / Environmental Officer	Mr. 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	
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. P J Fan	3557 6368	
		Head of construction	Mr. Roger Cheung	3557 6371	

Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Officer	Mr. Daniel Sin	3557 6215	
		Environmental Supervisor	Mr. Kelven Yip	3557 6347	
		Environmental Supervisor	Mr. Tim Fung	3557 6349	
		Environmental Supervisor	Mr. 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

- Construction works were completed and surrendered on 11 Feb 2011

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

- ELS works for basement construction for 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
- Installation of couplers, cable detection, trial trench and pre-drilling in CR3
- Site investigation and pre-drilling works
- Diaphragm wall construction
- Hoarding erection

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 for Area 3.
- Diaphragm wall construction works for CWB (stage 1) and SCL Protection 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 works at WCR1 area.
- Diaphragm wall construction at WCR1 area.
- Toe grout at WCR1 area.

- Shear pin at WCR1 area.
- Pumping test wells at WCR1 area.
- King Post at WCR1 area.

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

- Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4
- Diaphragm wall construction at TS1 and TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Marine Pre-drilling
- Remove existing dolphin
- Preparation works and removal of existing marine piles
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Pretreatment
- Construction of Guide Wall

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

- Construction works were completed and surrendered on 11 Feb 2011

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

- ELS works for basement construction for 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
- Installation of couplers, cable detection, trial trench and pre-drilling in CR3
- Site investigation and pre-drilling works
- Diaphragm wall construction

- Hoarding erection

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

- Diaphragm wall construction works for both CWB and SCL Protection Works within HKCEC 1.
- Site investigation works at north bank of HKCEC water Channel (from CH 200 to CH260).

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 works.
- Toe grout, Shear pile, Pumping test and King Post 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 preparation works at TS4
- Diaphragm wall construction at TS1 and TPCWAE
- Night time protection works at CHT
- Construction of dewatering well at Hung Hing Road and POC
- Precautionary works at Abutment A

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

- Preparation works and removal of existing marine piles
- Pre-drilling works for bored pile and Diaphragm wall
- Marine Pre-drilling
- Remove existing dolphin
- Set up of Contractor's site office at Oil Street
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- Pre-drilling works for bored pile and Diaphragm wall
- D-wall Pretreatment
- Construction of Guide Wall
- D-wall and Barrette Piling
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T

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 July 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 July 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	11 July 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	GW-RS0384-11	29 Apr 2011	27 May 2011 to 26 Nov 2011	Valid
	GW-RS0680-11	22 Jul 2011	24 Jul 2011 to 19 Jan 2012	Valid
	GW-RS0689-11	28 Jul 2011	29 Jul 2011 to 28 Jan 2012	Valid
	GW-RS0832-11	7 Sep 2011	03 Sep 2011 to 02 Mar 2012	Valid
	GW-RS0850-11	12 Sept 2011	14 Sept 2011 to 13 Mar 2012	Valid
	GW-RS0851-11	12 Sept 2011	16 Sept 2011 to 15 Mar 2012	Valid
	GW-RE0683-11	26 Sept 2011	20 Sept 2011 to 19 Oct 2012	Valid
	GW-RE0716-11	28 Sept 2011	07 Oct 2011 to 29 Mar 2012	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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	10 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-RS0225-11	17 Mar 2011	31 Mar 2011 to 30 Sept 2011	Cancel
	GW-RS0280-11	30 Mar 2011	31 Mar 2011 to 30 Sept 2011	Cancel



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0335-11	8 April 2011	11 Apr 2011 to 30 Sept 2011	Cancel
	GW-RS0343-11	11 April 2011	25 Apr 2011 to 10 Oct 2011	Expire
	GW-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Valid
	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	Cancel
	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	Cancel
	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	Cancel
	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	Cancel
	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-RS0579-11	22 June 2011	17 July 2011 to 16 Jan 2012	Valid
	GW-RS0645-11	18 July 2011	22 Jul 2011 to 21 Jan 2012	Cancel
	GW-RS0649-11	22 July 2011	1 Aug 2011 to 31 Jan 2011	Valid
	GW-RS0691-11	25 July 2011	27 July 2011 to 26 Jan 2011	Cancel
	GW-RS0716-11	2 Aug 2011	12 Aug 2011 to 11 Feb 2012	Valid
	GW-RS0722-11	2 Aug 2011	5 Aug 2011 to 5 Oct 2011	Expire
	GW-RS0723-11	12 Aug 2011	15 Aug 2011 to 14 Feb 2012	Valid
	GW-RS0833-11	8 Sept 2011	10 Sept 2011 to 4 Mar 2012	Valid
	GW-RS0857-11	16 Sept 2011	6 Oct 2011 to 5 Apr 2011	Valid
	GW-RE0710-11	30 Sept 2011	1 Nov 2011 to 30 Apr 2012	Valid
	GW-RS0918-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0929-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0930-11	11 Oct 2011	1 Nov 2011 to 30 Apr 2012	Valid
	GW-RS0931-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0941-11	20 Oct 2011	23 Nov 2011 to 22 May 2012	Valid
	GW-RS0955-11	14 Oct 2011	23 Nov 2011 to 22 May 2012	Valid
	GW-RS0968-11	20 Oct 2011	18 Nov 2011 to 17 May 2012	Valid
	GW-RS0983-11	24 Oct 2011	26 Oct 2011 to 23 April 2012	Valid
	GW-RS0984-11	25 Oct 2011	30 Oct 2011 to 27 April 2012	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid

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

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

EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.9	Noise Management Plan	28 Jun 2011
Condition 2.11	Landscape Plan	23 Aug 2011
Condition 2.9	Noise Management Plan (Rev.A)	28-Sep-11

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

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Permit issued	Valid
Notification of Works Under APCO	322293	07 Oct 2010	Notified	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0840-11	09 Sept 2011	09 Sept 2011 – 28 Oct 2011	Valid
	GW-RS0878-11	22 Sept 2011	22 Sept 2011 – 28 Oct 2011	Valid
	GW-RS0993-11	28 Oct 2011	28 Oct 2011 – 25 Apr 2012	Valid
Discharge Licence	WT00008229-2011	13 Jan 2011	31 Jan 2016	Valid
Registration as a Waste Producer	WPN: 8335-121-L1048-04	17 Dec 2010	Registration completed	

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Application for a Billing Account for Disposal of Construction Waste (Construction Work Contract with Value of \$1 million or Above) under the Waste Disposal Ordinance (Cap. 354) sections 5 & 9 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulation.	Account No.: 7011587	11 Oct 2010	Account approved	Valid

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 March 2011
Condition 2.10	Landscape Plan (Rev. 4)	3 August 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
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0749-11	11 Aug 2011	15 Aug 2011 to 7 Feb 2012	Valid
Construction Noise Permit (CNP) for Installation of Instrumentation at CHT	GW-RS0847-11	14 Sep 2011	19 Sep 2011 to 16 Mar 2012	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for Diaphragm Wall at Construction TPCWAE	GW-RS0858-11	16 Sep 2011	18 Sep 2011 to 16 Mar 2012	Valid
Construction Noise Permit (CNP) for Diaphragm Wall at Construction TPCWAE (24 hr)	GW-RS0883-11	4 Oct 2011	5 Oct 2011 to 4 Apr 2012	Valid
Construction Noise Permit (CNP) for Diaphragm Wall Construction at TS1	GW-RS0820-11	5 Sep 2011	8 Sep 2011 to 7 Mar 2012	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	28 Apr 2011	1 May 2011 to 30 Oct 2011	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)	WT00010482-2011	30 Sep 2011	30 Sep 2011 to 30 Sep 2013	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 2011

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
Application for Vessel Disposal	7012306	21 July 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
Condition 2.13	Landscape Plan	7 July 2011

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. Review of feasibility on the real time noise monitoring stations was conducted in July with IEC. Station, RTN1a, Tung Lo Wan fireboat Station was found not appropriate to be a monitoring station for monitoring the IECL Piling works and Demolition after visited.
- 4.1.3. 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

- 4.1.4. 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.

- 4.1.5. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
- One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.6. 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.
- 4.1.7. If construction works are extended to include works during the hours of 1900 – 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

- 4.1.8. As referred to in the Technical Memorandum 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 may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.9. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 4.1.10. 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 July 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
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Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point (Temporary Suspended)
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children 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 labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.

4.2.9. 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](#).

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/2009/15 – Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A
- 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/2009/01 – Wan Chai Development Phase II – Central – Wan Chai Bypass at Hong Kong Convention and Exhibition Centre
- 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

5.1.1. The noise monitoring at stations were M1a and M5b during day time, M3a, M4b, M5b and M6 during restricted hour were rescheduled on 13 October 2011 due to rain.

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

5.1.2. 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

5.1.3. 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

- 5.1.4. 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)

- 5.1.5. No action level and one limit level exceedance was recorded during day time on 11 October 2011 in the reporting month. After checking contractor's work schedules and investigation found that Excavation by hydraulic extractor, drilling by drill rig and breaking works for TTA stage 3 in front of IFC were conducted during monitoring. 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**. Details of the Notification of Exceedance can be referred in **Appendix 6.2**.

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

- 5.1.6. The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011 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 no HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.7. No action level and two limit level exceedances were recorded at M1a – Harbour Road Sports Centre **due to a recorded noise complaint on 7 and 25 October 2011** during restricted hour **for the contractor of HK/2009/02**. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. Details of the Notification of Exceedance can be referred in **Appendix 6.2**. 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** and the complaints can be referred in **Appendix 9.1**.

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 was on 13 July 2011. **Noise monitoring was commenced on 13 July 2011**. 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

- 5.1.9. **No action level 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. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 5.1.10. 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

- 5.1.11. **No action level and limit level** exceedance was recorded during day time period. 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 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

5.3.5 The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is on 25 August 2011. Air quality monitoring was commenced on 25 August 2011. 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

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

Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at 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 The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A was on 13 July 2011. Air quality monitoring was commenced on 14 July 2011. 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

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/2009/19 – 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 Since the land located the Oil Street Community Liaison Centre will be handed-over to Food and Environmental Hygiene Department (FEHD) for the construction of temporary FEHD depot by the end of September 2011, the air monitoring station – CMA1b was then removed on 18 September 2011 and is not available for the air quality monitoring in the existing location at Oil Street Community Liaison Centre. Owing to the rejection or no response from the nearby air sensitive receivers in allowing the implementation of impact air quality monitoring, CMA1b was proposed to be temporary suspension until obtainment of a representative long-term air monitoring station in last reporting month. After liaised with FEHD, a long-term monitoring station was confirmed at oil street temporary FEHD Depot on 2 November 2011. Reinstallation was pending to conduct on 12 November 2011.

5.3.12 No exceedance was recorded at CMA2a 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. Construction works were completed and a duly signed report on Completion of Works was issued by the Engineer dated on 1 March 2011. In addition, acknowledge of FEP surrender was under preparation by the Contractor. 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 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 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. 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
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Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	2507.68	4973.88	TKO137, TM38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	39.82	107.52	SENT Landfill
Non-inert C&D materials recycled	4520	4979	N/A
Chemical waste disposed	100	1100	Kwun Kee (Chemical Waste Collector)

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 & 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	8,047	50,018	TKO137, TM 38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	25	41	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	1,104	N/A

Contractor clarified that no Inert and Non-inert C&D materials disposed in June 2011

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	2034.7	6627.7	T.K.O. 137
Inert C&D materials recycled	NIL	58.5	N/A
Non-inert C&D materials disposed	15.6	185.7	SENT Landfill

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	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. Inert & Non-inert C&D wastes were 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	330.0	2287.4	Tuen Mun Area 38
Inert C&D materials recycled	NIL	304	N/A
Non-inert C&D materials disposed	11.1	61.9	SENT Landfill
Non-inert C&D materials recycled	NIL	61.3	N/A
Chemical waste disposed	1,800	3,800	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. Only 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
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	630.954	630.954	N/A
Non-inert C&D materials disposed	4.938	7.741	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	0.034	0.034	N/A

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 action level and one project related limit level exceedance was recorded on 11 October 2011 in the reporting month. Investigation found that Excavation by hydraulic extractor, drilling by drill rig and breaking works for TTA stage 3 in front of IFC were conducted during monitoring

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 exceedance was recorded 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. No action level and three limit level exceedance were recorded at M1a – Harbour Road Sports Centre on **7 and 25 October 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 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

6.1.1. No exceedance was recorded in the reporting month.

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 exceedance was recorded 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 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

6.3.1. No exceedance was recorded in the reporting month.

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

6.4.1. 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.

6.4.2. There was exceedance of noise level recorded during day time on 11 October 2011 at M7e that was considered in relation to the excavation, drilling and breaking during monitoring.

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

6.5.1. According to the Event and Action Plan stated in Appendix 6.1, repeated measurement for noise monitoring station (M7e) would be conducted immediately once Limit Level exceedance recorded in relation to Contract no. HY/2009/18, site investigations would be arranged accordingly to observe and record the sources of the exceedance(s). During the noise monitoring on 11 October 2011, excavation by hydraulic extractor, drilling by drill rig and breaking works for TTA stage 3 in front of IFC and no abnormal work were observed through out the period of noise monitoring. The extended acoustic lining on the top of noise barriers were not erected during operations. Contractor had suspended the works after received the notification on the same day to review the plant operations. Contractor explained that due to

the Strong Monsoon Signal was in force during the monitoring, fully erection of the noise barriers were not practicable which follows their safety management plan. Additional monitoring was conducted on 13 October 2011 at 14:20. Excavation by hydraulic extractor operated with fully erected moveable noise barrier, drilling by drill rig and breaking works for TTA stage 3 in front of IFC were observed during noise monitoring.

- 6.5.2. No further exceedance was recorded in the subsequent noise monitoring during non-restricted hours. Nevertheless, the effectiveness of remedial actions implemented by the Contractor will be continuously reviewed.

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 (September 2011) of Central Reclamation Phase III (CRIII) the key works in October 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
- Installation of removable panels at caisson
- Installation of remaining seawall blocks and retaining wall on the west side of culvert F
- Construction of storm and foul drainage and gullies in hinterlands for Road P2 and Road D9
- Roadworks for Road P2
- 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 structures
- Construction of CWB structure
- Backfilling and waterproofing works for 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 were the filling works at NPR2E and HKCEC1, seawall block construction at TCBR1W, maintenance dredging of navigation channel and mooring area, HKCEC3w and marine bored piling at MTR Tunnel Crossing. Advanced piling works at FEHD Whitfield Depot, Central Interchange, cross-harbour water mains, tunnel works at WCR1, Diaphragm wall construction at Causeway Bay Typhoon shelter 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 were advance 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 advanced piling works at FEHD Whitfield Depot were undertaken and sheet piling, pre-drilling and sheet piling works at Central and tunnel works at Wan Chai East in the reporting month. No significant air impact was anticipated in the reporting month. Notwithstanding, a project-related exceedance regarding construction noise was recorded during non-restricted hours referred to Contract no. HY/2009/18 in the reporting month. In general, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II, and Central Reclamation Phase III was mainly insignificant.

8 Environmental Site Audit

8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/15, HY/2009/17, HY/2009/18, HY/2009/19, HK/2009/01 and HK/2009/02. No non-conformance was identified during the site audits.

8.0.2. Four site inspections for Contract no. HY/2009/15 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/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
111001_01	4-Oct-11	The contractor was reminded to tidy up the site entrance at Ex-Fire boat station as slimy overflow the mud pit at the area of piling	tidy up the site entrance at Ex-Fire boat station.	Completion as observed on 11-Oct-11
111011_01	11-Oct-11	Clean water shall be used for wheel washing (portion 13, TS1)	Use clear water for wheel washing	Completion as observed on 18-Oct-11
111011_02	11-Oct-11	Floating refuses shall be collected (TS1)	Collect floating refuse	Completion as observed on 18-Oct-11
111011_03	11-Oct-11	Gaps between seawall blocks shall be filled by gap filter	fill the gaps between seawall blocks	Completion as observed on 18-Oct-11
111011_04	11-Oct-11	Hoarding shall be erected as soon as practicable (TS4)	Erect Hoarding	Completion as observed on 18-Oct-11
111011_05	11-Oct-11	Stockpile shall be covered by tarpaulin (TS4)	Covering the stockpile by tarpaulin	Completion as observed on 18-Oct-11
111018_01	18-Oct-11	Stockpile was observed stored outside the rock bund at TS4. The contractor was reminded filling for reclamation shall be conducted behind seawall.	Remove the stockpile outside the rock bund and conduct filling for reclamation behind seawall	Completion as observed on 25-Oct-11
111018_02	18-Oct-11	Slurry (muddy water) leakage was observed at the site entrance at TS1. Those muddy water shall be treated properly prior discharge.	Treated muddy water properly prior discharge	Completion as observed on 25-Oct-11
111025_01	25-Oct-11	Stockpile was observed exceed rock bund, the contractor should remove it. They also reminded again that filling for reclamation should behind seawall.	Conduct filling for reclamation behind seawall	Completion as observed on 1-Nov-11

8.0.3. Five 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 8.2**.

Table 8.2 Summary of Environmental Inspections for Contract no. HY/2009/18

Item	Date	Observations	Action taken by Contractor	Outcome
30-Sep-11	110930_01	The contractor was reminded to collect and treat the silt water properly.	Collect and treat the silt water properly	Completion as observed on 6-Oct-11
6-Oct-11	111006_01	The enclosures of grouting plant and cement mixing plant shall be improved	Improve the enclosures of grouting plant and cement mixing plant	Completion as observed on 13-Oct-11
13-Oct-11	111013_01	Oil spillage was observed at Financial Street, the contractor should clear the oil with spill kit. Also, drip tray should be provided for chemical storage	Clear the oil with spill kit and provide drip tray should be for chemical storage	Completion as observed on 20-Oct-11
20-Oct-11	111020_01	Drip trays shall be provided for chemical storage and bar fixing machine.	Provide drip tray should be for chemical storage and bar fixing machine	Completion as observed on 27-Oct-11

8.0.4. Five site inspections for Contract no. HY/2009/19 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.3**.

Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/19

Item	Date	Observations	Action taken by Contractor	Outcome
110928_01	28-Sep-11	The contractor was reminded to enclose the dust generation part of the cement mixing plant.	Enclose the dust generation part of the cement mixing plant	Completion as observed on 5-Oct-11
111019_01	19-Oct-11	The contractor was reminded to improve the concrete bunding in order to prevent the run off discharge outside the site area. (site entrance)	Improve the concrete binding in order to prevent the run off discharge outside the site area.	Completion as observed on 26-Oct-11
111019_02	19-Oct-11	Environmental Permits shall be posted at the site entrance after maintenance work.	Post Environmental Permits at the site entrance	Completion as observed on 26-Oct-11
111026_01	26-Oct-11	Oil leakage of excavator was observed. The contractor was reminded to repair it before use.	repair the disorder plants before use	Completion as observed on 2-Nov-11
111026_02	26-Oct-11	The oil contaminated top soil shall be treated as chemical waste.	Treat the top soil as chemical waste	Completion as observed on 2-Nov-11

8.0.5. As construction works for Contract no.04/HY/2006 were completed, no site inspection was carried out since February 2011.

8.0.6. Five site inspections for Contract no. HK/2009/01 was carried out during this reporting period as the commencement date of the project was on 25 August 2011.

Table 8.4 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by Contractor	Outcome
110928_01	22-Sep-11	Sand bags at the edge of HKCEC site boundary shall be enhanced.	Providing the sand bags at the edge of HKCEC site boundary	Completion as observed on 4-Oct-11
111012_01	12-Oct-11	Silty water was observed at sedimentation tank at TST. Contractor was reminded to slow down the flow rate or other measures so as to settle the sediment	Slowing down the flow rate of the water discharge	Completion as observed on 20-Oct-11
111012_02	12-Oct-11	Silt curtain at jetty barge shall be repaired. Besides, the filling material at the walkway of barge shall be removed	Removal of the fill material at walkway and maintenance of the silt curtain	Completion as observed on 20-Oct-11
111020_01	20-Oct-11	Oil stains was observed underneath the drill rig at TST. Contractor shall clear it and provide maintenance works to the plant.	Removal of the contaminated soil and providing the maintenance of the plant	Completion as observed on 26-Oct-11
111020_02	20-Oct-11	Drill rig at TST was located close to the branches of the trees. The plants shall be removed away from the trees.	Protective fence was provided to the trees.	Completion as observed on 26-Oct-11
111026_01	26-Oct-11	The contractor was reminded to tidy up the North gate at HKCEC. As mud was observed exceed the wheel washing facility. Also, sand bag shall be provided or replaced for the gully protection near the site entrance.	Tidy up the North gate at HKCEC and replacement of new sand bags near the site entrance.	Completion as observed on 2-Nov-11

8.0.7. Five 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 8.5**.

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
110930_01	30-Sep-11	Discarded cement bags shall be covered or disposed properly.	Covering the discarded cement bags	Completion as observed on 6-Oct-11
111006_01	6-Oct-11	Slurry in the U-Channel at ex. Pet Garden shall be removed	Removal of the slurry in U-channel	Completion as observed on 13-Oct-11
111006_02	6-Oct-11	Barrier at two barge shall be maintained to avoid the muddy water spillage to the sea	Maintenance the barrier at the barges	Completion as observed on 13-Oct-11
111006_03	6-Oct-11	It was reminded that a shelter with 3-sides and top shall be provided before the process of grouting works. Besides, the cement bags shall be well covered	Provide a shelter with 3-sides and top for grouting works and well covering the cement bags.	Completion as observed on 13-Oct-11
111013_01	13-Oct-11	Oil Stain was found next to the drip trap at ex. Pet Garden (near Gate 1). Contractor shall clear and dispose of as chemical waste	Removal of the contaminated soil as chemical waste.	Completion as observed on 19-Oct-11
111019_01	19-Oct-11	Floating refuse near eastern seawall shall be removed.	Removal of the floating debris.	Completion as observed on 27-Oct-11

Item	Date	Observations	Action taken by Contractor	Outcome
111027_01	27-Oct-11	The contractor was reminded to beware of the silty water after car washing from spilling out to the public road at Gate 2.	Keep maintenance the vehicle washing facilities in proper function	Completion as observed on 3-Nov-11
111027_02	27-Oct-11	Drip tray should be provided to the oil containers near jacking pit.	Providing drip tray underneath the oil containers	Completion as observed on 3-Nov-11
111027_03	27-Oct-11	Protection should be provided to the trees inside the site boundary in front of Harbour Road Sport Centre.	Protective fence was provided.	Completion as observed on 3-Nov-11

8.0.8. Four site inspections for Contract no. HY/2009/17 were carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.6**.

Table 8.6 Summary of Environmental Inspections for Contract no. HY/2009/17

Item	Date	Observations	Action taken by Contractor	Outcome
111012_01	12-Oct-11	Drip tray shall be provided for oil drum storage	Providing drip tray underneath the oil drum	Completion as observed on 19-Oct-11

COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. There was one environmental complaint received on 14 October 2011 for the investigation and follow-up action in the reporting month.
- 9.0.2. The complainant, Ms. Tam complained via hotline 1823 about the polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre). RSS notified ET to carry out investigation on 17 October 2011.
- 9.0.3. The location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main re-provision works along the Harbour Road. The plants including the excavator have been checked before using at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. Contractor was reminded to enhance regular checking and maintenance to all plants at site. RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.
- 9.0.4. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**
- 9.0.5. 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
October 2011	1
Sep 10 to September 11	10
Total	11

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/2009/15	<ul style="list-style-type: none"> • Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4 • Diaphragm wall construction at TS1 and TPCWAE • Night time protection works at CHT • Construction of dewatering well at Hung Hing Road and POC • Precautionary works at Abutment A 	<ul style="list-style-type: none"> • Watering any dust generating activities • Checking all drip trays frequently and clear any stagnant water and mud inside it.
HY/2009/17	<ul style="list-style-type: none"> • ELS works for basement construction for 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 • Installation of couplers, cable detection, trial trench and pre-drilling in CR3 • Site investigation and pre-drilling works • Diaphragm wall construction • Hoarding erection 	<ul style="list-style-type: none"> • Noise barrier shall be implemented; and • Noise level shall be controlled by reducing piling rate and no. of plants working in parallel. • Dust control during dust generating works

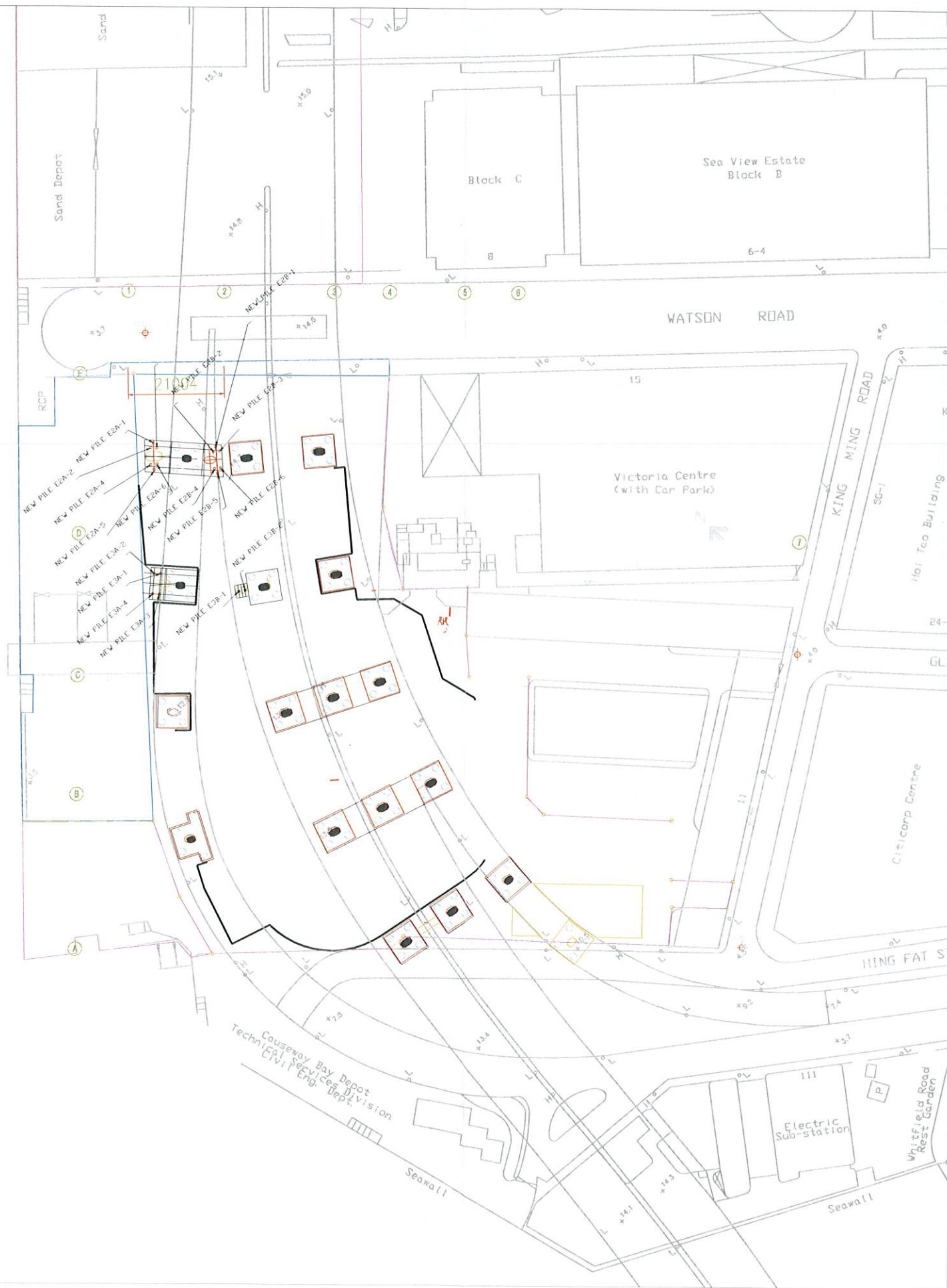
HY2009/19	<ul style="list-style-type: none"> • Marine Pre-drilling • Remove existing dolphin • Preparation works and removal of existing marine piles • Set up of Contractor's site office at Oil Street • Road works at Watson Road • Fabrication of bored piling platform • Bored piling • Ground contamination assessment • Pre-drilling works for bored pile and Diaphragm wall • D-wall Pretreatment • Construction of Guide Wall 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing drilling rate. • Noise barrier shall be deployed for dolphin pier removal.
HK2009/01	<ul style="list-style-type: none"> • Diaphragm wall construction works for both CWB and SCL Protection Works within HKCEC 1. • Site investigation works at north bank of HKCEC water Channel (from CH 200to CH260). 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing piling rate. • Well maintain the enclosures for grouting and bentonite mixing plants.
HK/2009/02	<ul style="list-style-type: none"> • Tunnel bored pile and diaphragm wall construction works. • Toe grout, Shear pile, Pumping test and King Post at WCR1 area. 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing piling rate. • Well maintain the enclosures for grouting and bentonite mixing plants.

10.0.3. Construction works of Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A were completed and surrendered on 11 Feb 2011.



Figure 2.1

Project Layout



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

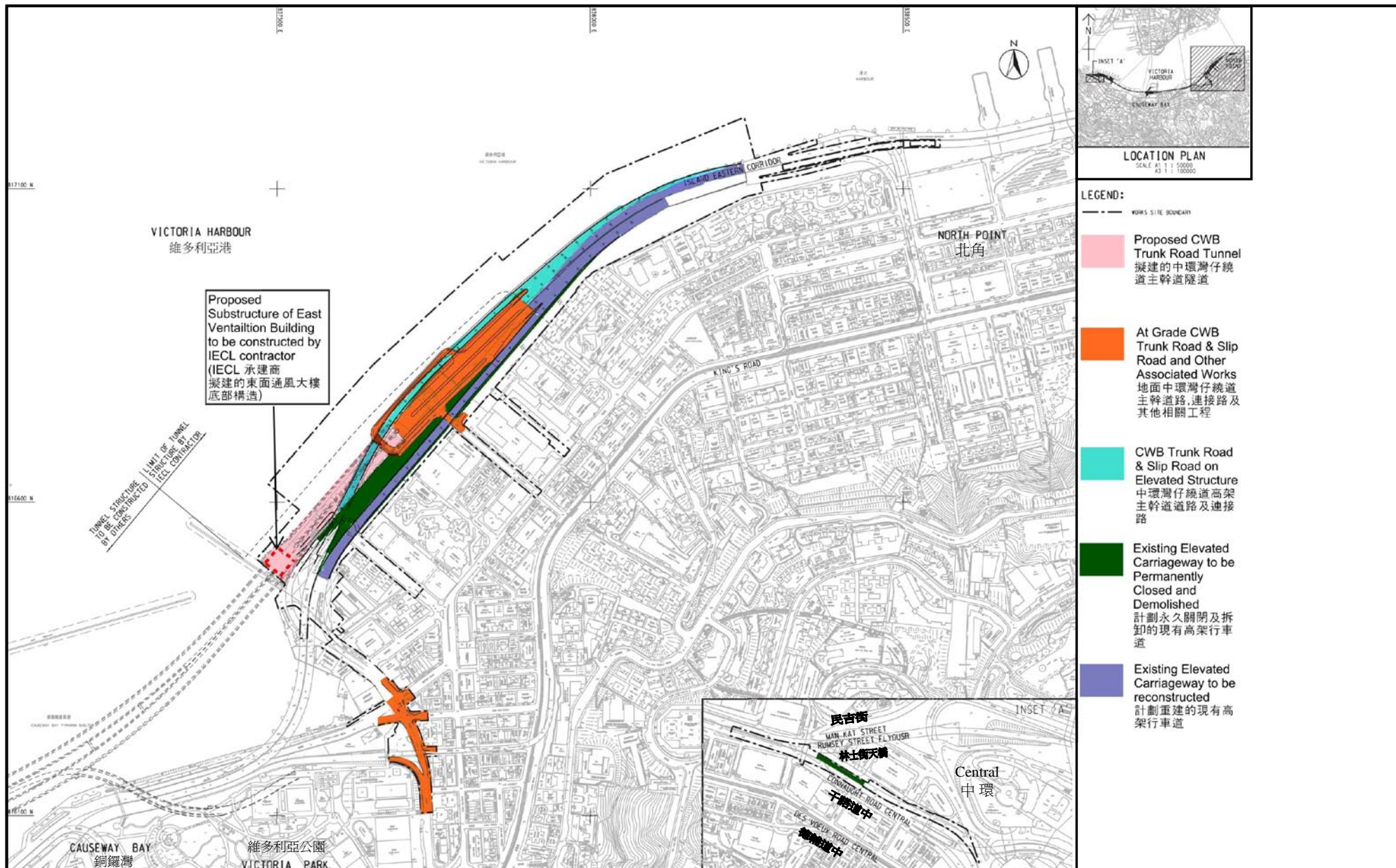
DRAWING NO. 0020

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

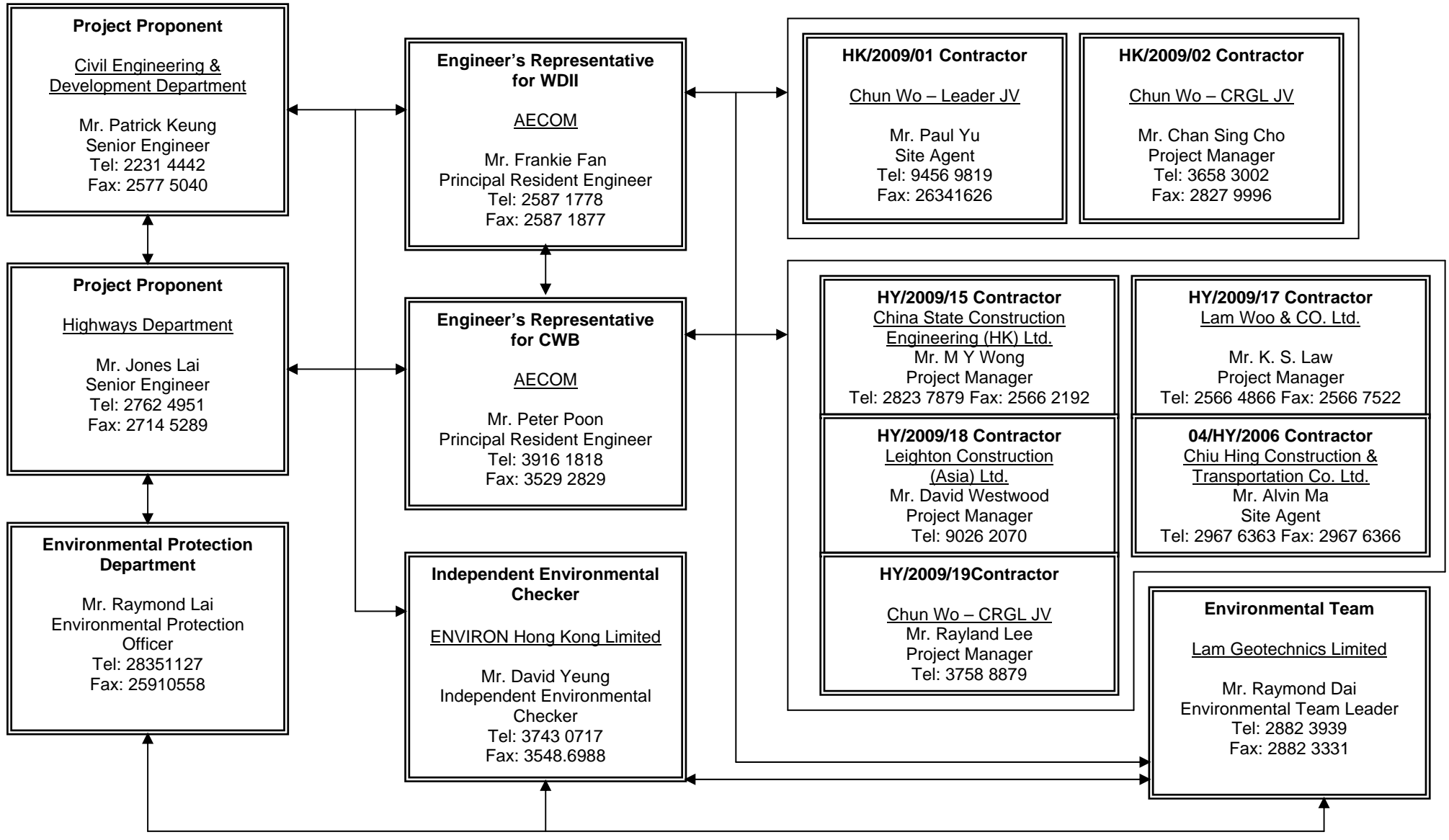
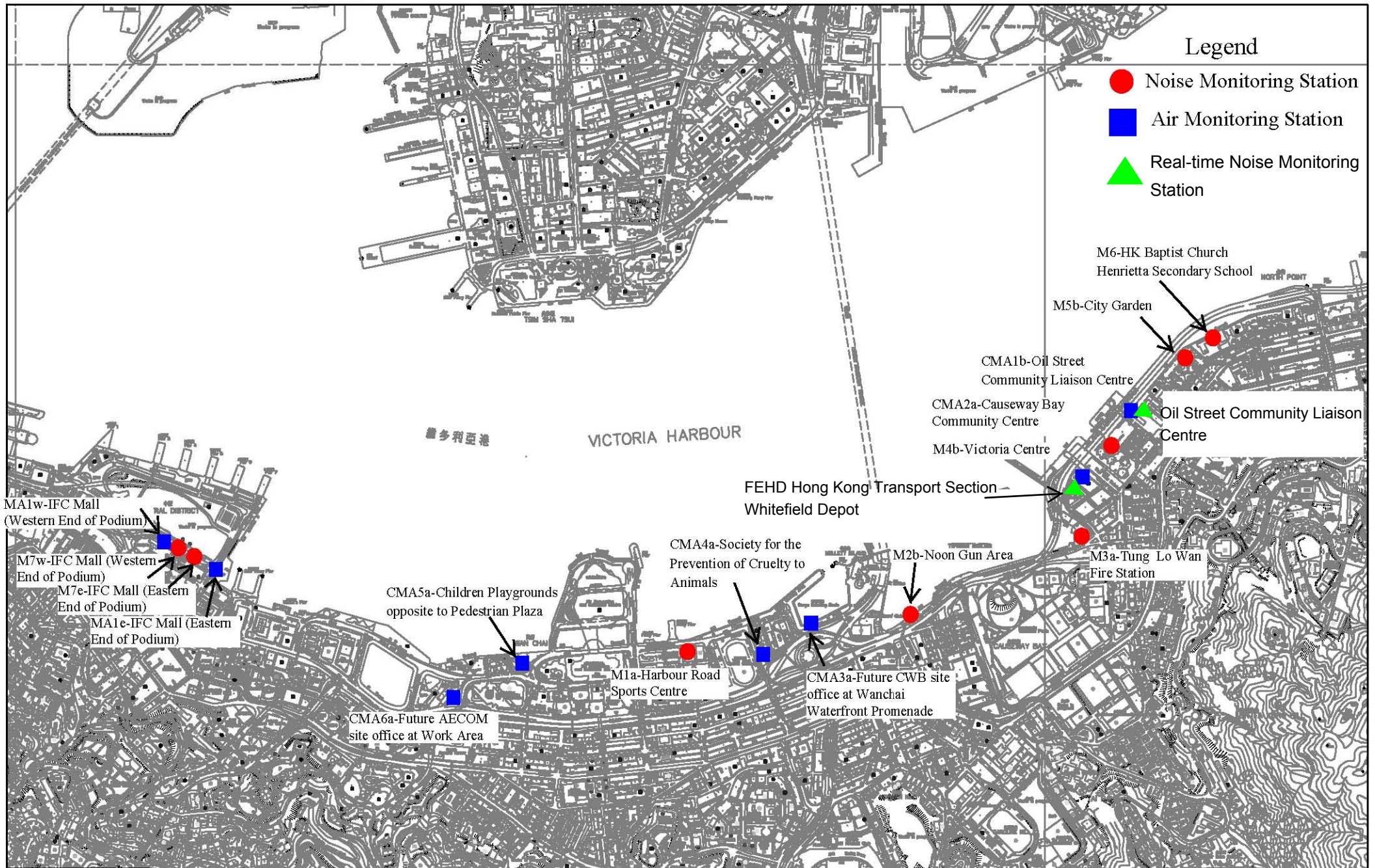




Figure 4.1

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

WDH & 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. **12888**

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982

Date of receipt : 25-May-11

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-14

Serial No. : 10303242

Test Conditions

Date of Test : 26-May-11

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 or IEC 804 Type 1 specification after adjustment.

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	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 : 
Alan Chu

Date: 26-May-11

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. 12888

Page 2 of 4 Pages

Results :

1. SPL Accuracy

Level Range (dB)	UUT Setting			Applied Value (dB)	UUT Reading (dB)	
	Filter	Weight	Time Const.		Before adjust.	After adjust.
40 – 100	OFF	L _P	Fast	94.00	--	94.1
		L _{PA}	Fast		*95.0	94.1
			Slow		--	94.1
		L _{PC}	Fast		--	94.1
60 – 120	OFF	L _P	Fast	94.00	--	94.1
		L _{PA}	Fast		--	94.0
			Slow		--	94.0
		L _{PC}	Fast		--	94.0
60 – 120	OFF	L _P	Fast	114.00	--	114.0
		L _{PA}	Fast		--	113.9
			Slow		--	113.9
		L _{PC}	Fast		--	113.9

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.1 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB



Calibration Certificate

Certificate No. 12888

Page 3 of 4 Pages

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.9	-0.1	± 0.7 dB
130	104.0	103.8	-0.2	
120	94.0	94.0 (Ref.)	--	
110	84.0	83.9	-0.1	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.3	+0.3	

Uncertainty : ± 0.1 dB

3.2 Differential level linearity

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

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.0	- 39.4 dB, ± 1.5 dB
63 Hz	-25.9	- 26.2 dB, ± 1.5 dB
125 Hz	-15.9	- 16.1 dB, ± 1 dB
250 Hz	-8.4	- 8.6 dB, ± 1 dB
500 Hz	-3.0	- 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	+0.8	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-7.1	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 12888

Page 4 of 4 Pages

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.9	± 0.5 dB
1/10 ²	40.0	39.6	
1/10 ³	40.0	39.2	± 1.0 dB
1/10 ⁴	40.0	39.4	

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

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

3. Atmospheric Pressure : 1 004 hPa.

4. *Out of Specification

----- END -----



Calibration Certificate

Certificate No. 12889

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982

Date of receipt : 25-May-11

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73

Serial No. : 10465798

Test Conditions

Date of Test : 26-May-11

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

Test Results

All results were within the manufacturer's specification after adjustment.

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 : 

Alan Chu

Date: 26-May-11

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. 12889

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value		Mfr's Spec.
	Before Adjust.	After Adjust.	
94 dB	*95.20 dB	93.94 dB	± 1 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.994 kHz	± 2 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.5 %

Mfr's Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

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

3. The above measured values are the mean of 3 measurement.

4. Atmospheric Pressure : 1 004 hPa

5. *Out of Specification

----- 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 ± 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 & 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.
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 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 11, 2011 Rootmeter S/N 0438320 Ta (K) - 298
 Operator Tisch Orifice I.D. - 0005 Pa (mm) - 749.3

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3710	3.2	2.00
2	NA	NA	1.00	0.9730	6.4	4.00
3	NA	NA	1.00	0.8690	7.9	5.00
4	NA	NA	1.00	0.8300	8.8	5.50
5	NA	NA	1.00	0.6860	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9817	0.7160	1.4042	0.9957	0.7263	0.8919
0.9775	1.0046	1.9859	0.9915	1.0190	1.2613
0.9754	1.1225	2.2203	0.9894	1.1385	1.4101
0.9743	1.1739	2.3286	0.9882	1.1907	1.4790
0.9690	1.4126	2.8084	0.9829	1.4328	1.7837
Qstd slope (m) = 2.01593			Qa slope (m) = 1.26234		
intercept (b) = -0.03978			intercept (b) = -0.02526		
coefficient (r) = 0.99999			coefficient (r) = 0.99999		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Calibration Certificate

Certificate No. **13784**

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q11569

Date of receipt : 6-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250

Serial No. : 2722311

Test Conditions

Date of Test : 6-Jul-11

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

<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	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: 6-Jul-11



Calibration Certificate

Certificate No. 13784

Page 2 of 4 Pages

Results :

1. SPL

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

IEC 651 Type 1 Spec. : ± 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

Differential level linearity

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

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13784

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4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.8	- 39.4 dB, ± 1.5 dB
63 Hz	-26.5	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 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	+1.1	+ 1.2 dB, ± 1 dB
4 kHz	+1.1	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB \sim -3 dB
16 kHz	-5.9	- 6.6 dB, + 3 dB \sim - ∞

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	--	--
1/10	40.0	40.1	± 0.5 dB
1/10 ²	40.0	40.0	
1/10 ³	40.0	40.0	± 1.0 dB
1/10 ⁴	40.0	40.0	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13784

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec.(dB)
326 Hz	-64.9	< - 61
530 Hz	-48.1	< - 42
772 Hz	-23.6	< - 17.5
891 Hz	-3.9	+ 0.3 ~ - 5.0
1 kHz (Ref)	--	--
1.122 kHz	-3.9	+ 0.3 ~ - 5.0
1.296 kHz	-23.7	< - 17.5
1.887 kHz	-48.8	< - 42
3.070 kHz	-70.4	< - 61

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test

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

3. Atmospheric pressure : 996 hPa.

----- END -----



Calibration Certificate

Certificate No. 13813

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q11569

Date of receipt : 7-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250

Serial No. : 2722310

Test Conditions

Date of Test : 8-Jul-11

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, IEC 804 Type 1 & IEC 1260 Class 1 specification.

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


Main Test equipment used:

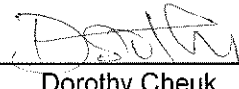
<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	07279	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

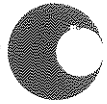
The test equipment used for calibration are traceable to International System of Units (SI).

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

Calibrated by : 
P. F. Wong

Approved by : 
Dorothy Cheuk

Date: 8-Jul-11



Calibration Certificate

Certificate No. **13813**

Page 2 of 4 Pages

Results :

1. SPL

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

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.8	0.0	± 0.4 dB
	94.0	93.8 (Ref.)	--	
	95.0	94.8	0.0	± 0.2 dB

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13813

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 1.5 dB
63 Hz	-26.6	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 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	+1.4	+ 1.2 dB, ± 1 dB
4 kHz	+1.2	+ 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

5. Time Averaging

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

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 13813

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6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

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

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test

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

3. Atmospheric pressure : 1 000 hPa.

----- END -----

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : MA1e
 Equipment no. : EL080

Calibration Date : 23-Aug-11
 Calibration Due Date : 23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	305	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

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	6.2	6.2	12.4	1.7435	58	57.2371
2	4.9	4.9	9.8	1.5522	50	49.3424
3	3.8	3.8	7.6	1.3693	41	40.4607
4	2.4	2.4	4.8	1.0922	29	28.6186
5	1.5	1.5	3.0	0.8676	17	16.7764

By Linear Regression of Y on X

Slope, m = 45.9809 Intercept, b = -22.4359
 Correlation Coefficient* = 0.9992
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 23-Aug-11

Checked by : Cherry Mak
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : MA1e
 Equipment no. : EL080

Calibration Date : 25-Oct-11
 Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7637	61	60.9006
2	4.9	4.9	9.8	1.5701	56	55.9087
3	3.9	3.9	7.8	1.4029	47	46.9234
4	2.8	2.8	5.6	1.1917	36	35.9413
5	1.5	1.5	3.0	0.8775	25	24.9593

By Linear Regression of Y on X

Slope, m = 42.5234 Intercept, b = -12.9545
 Correlation Coefficient* = 0.9946
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 25-Oct-11

Checked by : Cherry Mak
 Date : 25-Oct-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : MA1w
 Equipment no. : EL080

Calibration Date : 23-Aug-11
 Calibration Due Date : 23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

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

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	5.8	5.8	11.6	1.6870	51	50.3292
2	4.7	4.7	9.4	1.5206	45	44.4081
3	3.6	3.6	7.2	1.3333	39	38.4870
4	2.4	2.4	4.8	1.0922	29	28.6186
5	1.5	1.5	3.0	0.8676	18	17.7632

By Linear Regression of Y on X

Slope, m = 39.3380 Intercept, b = -15.2235
 Correlation Coefficient* = 0.9967
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 23-Aug-11

Checked by : Cherry Mak
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : MA1w
 Equipment no. : EL080

Calibration Date : 25-Oct-11
 Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

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

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7296	54	53.2897
2	4.9	4.9	9.8	1.5522	48	47.3687
3	3.8	3.8	7.6	1.3693	40	39.4739
4	2.4	2.4	4.8	1.0922	30	29.6054
5	1.5	1.5	3.0	0.8676	20	19.7369

By Linear Regression of Y on X

Slope, m = 38.8795 Intercept, b = -13.5104
 Correlation Coefficient* = 0.9992
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 25-Oct-11

Checked by : Cherry Mak
 Date : 25-Oct-11



Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA2a
 Equipment no. : EL449

Calibration Date : 23-Aug-11
 Calibration Due Date : 23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	305	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC Y-axis
	H (inches of water)					
	(up)	(down)	(difference)			$(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$
1	6.3	6.3	12.6	1.7574	52	51.3161
2	5.0	5.0	10.0	1.5677	45	44.4081
3	3.8	3.8	7.6	1.3693	37	36.5133
4	2.4	2.4	4.8	1.0922	27	26.6449
5	1.5	1.5	3.0	0.8676	14	13.8159

By Linear Regression of Y on X

Slope, m = 41.1960 Intercept, b = -20.2858

Correlation Coefficient* = 0.9959

Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 23-Aug-11

Checked by : Cherry Mak
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA2a
 Equipment no. : EL449

Calibration Date : 25-Oct-11
 Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	5.9	5.9	11.8	1.7209	50	49.9185
2	4.8	4.8	9.6	1.5542	43	42.9299
3	3.5	3.5	7.0	1.3300	37	36.9397
4	2.5	2.5	5.0	1.1271	29	28.9527
5	1.4	1.4	2.8	0.8484	17	16.9723

By Linear Regression of Y on X

Slope, m = 36.8863 Intercept, b = -13.4049
 Correlation Coefficient* = 0.9968
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 25-Oct-11

Checked by : Cherry Mak
 Date : 25-Oct-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA3a
 Equipment no. : EL888

Calibration Date : 23-Aug-11
 Calibration Due Date : 23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

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

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	5.4	5.4	10.8	1.6285	46	45.3950
2	4.3	4.3	8.6	1.4553	41	40.4607
3	3.5	3.5	7.0	1.3149	35	34.5396
4	2.3	2.3	4.6	1.0696	26	25.6580
5	1.5	1.5	3.0	0.8676	18	17.7632

By Linear Regression of Y on X

Slope, m = 36.7801 Intercept, b = -13.8439
 Correlation Coefficient* = 0.9988
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 23-Aug-11

Checked by : Cherry Mak
 Date : 23-Aug-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA3a
 Equipment no. : EL888

Calibration I : 25-Oct-11
 Calibration I : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	298	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m _c	2.01593
		Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$\left(H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	11-Jul-12		

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC Y-axis
	H (inches of water) (up)	(down)	(difference)			
1	5.6	5.6	11.2	1.6771	47	46.9234
2	4.5	4.5	9.0	1.5055	41	40.9332
3	3.5	3.5	7.0	1.3300	35	34.9430
4	2.2	2.2	4.4	1.0586	26	25.9576
5	1.4	1.4	2.8	0.8484	16	15.9739

By Linear Regression of Y on X
 Slope, m = 36.5792 Intercept, b = -14.0184
 Correlation Coefficient* = 0.9976
 Calibration Accepted = Yes/No**

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

Remarks : _____

Calibrated by : Sam Lam
 Date : 25-Oct-11

Checked by : Cherry Mak
 Date : 25-Oct-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA4a
 Equipment no. : EL390

Calibration Date : 23-Aug-11
 Calibration Due Date : 23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	305	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

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	5.8	5.8	11.6	1.6870	54	53.2897
2	4.5	4.5	9.0	1.4883	48	47.3687
3	3.5	3.5	7.0	1.3149	41	40.4607
4	2.3	2.3	4.6	1.0696	31	30.5923
5	1.4	1.4	2.8	0.8389	21	20.7238

By Linear Regression of Y on X

Slope, m = 38.8337 Intercept, b = -11.2100
 Correlation Coefficient* = 0.9982
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 23-Aug-11

Checked by : Cherry Mak
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA4a
 Equipment no. : EL390

Calibration Date : 25-Oct-11
 Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298 / T_a)^{1/2} / 35.31$) Y-axis
	(up)	(down)	(difference)			
1	5.8	5.8	11.6	1.7065	58	57.9055
2	4.6	4.6	9.2	1.5219	50	49.9185
3	3.7	3.7	7.4	1.3669	44	43.9283
4	2.3	2.3	4.6	1.0819	31	30.9495
5	1.5	1.5	3.0	0.8775	24	23.9609

By Linear Regression of Y on X

Slope, m = 41.4483 Intercept, b = -13.0036
 Correlation Coefficient* = 0.9992
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 25-Oct-11

Checked by : Cherry Mak
 Date : 25-Oct-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA5a
 Equipment no. : EL380

Calibration Date : 23-Aug-11
 Calibration Due Date : 23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

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

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	5.8	5.8	11.6	1.6870	54	53.2897
2	4.6	4.6	9.2	1.5045	49	48.3555
3	3.6	3.6	7.2	1.3333	43	42.4344
4	2.3	2.3	4.6	1.0696	34	33.5528
5	1.5	1.5	3.0	0.8676	27	26.6449

By Linear Regression of Y on X

Slope, m = 32.8954 Intercept, b = -1.6589
 Correlation Coefficient* = 0.9993
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 23-Aug-11

Checked by : Cherry Mak
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA5a
 Equipment no. : EL380

Calibration Date : 25-Oct-11
 Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7637	56	55.9087
2	4.9	4.9	9.8	1.5701	51	50.9169
3	3.8	3.8	7.6	1.3850	44	43.9283
4	2.5	2.5	5.0	1.1271	35	34.9430
5	1.5	1.5	3.0	0.8775	26	25.9576

By Linear Regression of Y on X

Slope, m = 34.3328 Intercept, b = -3.8356
 Correlation Coefficient* = 0.9987
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 25-Oct-11

Checked by : Cherry Mak
 Date : 25-Oct-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA6a
 Equipment no. : EL448

Calibration Date : 23-Aug-11
 Calibration Due Date : 23-Oct-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	305	Kelvin	Pressure, P _a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.01593	Intercept, b _c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

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	6.0	6.0	12.0	1.7155	56	55.2634
2	4.8	4.8	9.6	1.5365	51	50.3292
3	3.7	3.7	7.4	1.3514	44	43.4213
4	2.4	2.4	4.8	1.0922	35	34.5396
5	1.4	1.4	2.8	0.8389	24	23.6843

By Linear Regression of Y on X

Slope, m = 36.0920 Intercept, b = -5.7206
 Correlation Coefficient* = 0.9978
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 23-Aug-11

Checked by : Cherry Mak
 Date : 23-Aug-11

**Calibration Data for High Volume Sampler (TSP Sampler)**

Location : CMA6a
 Equipment no. : EL448

Calibration Date : 25-Oct-11
 Calibration Due Date : 25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298	Kelvin	Pressure, P_a
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.01593	Intercept, b_c	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	11-Jul-12				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) Y-axis
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7637	60	59.9022
2	5.0	5.0	10.0	1.5858	52	51.9153
3	3.8	3.8	7.6	1.3850	46	45.9250
4	2.4	2.4	4.8	1.1048	37	36.9397
5	1.5	1.5	3.0	0.8775	29	28.9527

By Linear Regression of Y on X

Slope, m = 33.9988 Intercept, b = -0.9453
 Correlation Coefficient* = 0.9983
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Sam Lam
 Date : 25-Oct-11

Checked by : Cherry Mak
 Date : 25-Oct-11



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
October 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25-Sep	26-Sep	27-Sep	28-Sep 24hr TSP	29-Sep	30-Sep 1hr TSP x 3	1-Oct
2-Oct	3-Oct 24hr TSP	4-Oct 1hr TSP x 3	5-Oct	6-Oct	7-Oct Noise (Day time) Noise (Restricted hr) 1900-2300	8-Oct 24hr TSP
9-Oct	10-Oct 1hr TSP x 3	11-Oct Noise (Restricted hr) 1900-2300 Noise (Day time) M1a, M2b, M7e, M7w	12-Oct	13-Oct Noise (Day time) M3a, M4b, M5b, M6	14-Oct 24hr TSP	15-Oct 1hr TSP x 3
16-Oct	17-Oct	18-Oct Noise (Day time) Noise (Restricted hr) 1900-2300	19-Oct	20-Oct 24hr TSP	21-Oct 1hr TSP x 3	22-Oct
23-Oct	24-Oct	25-Oct Noise (Day time) Noise (Restricted hr) 1900-2300	26-Oct 24hr TSP	27-Oct 1hr TSP x 3	28-Oct	29-Oct

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
November 2011

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

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
December 2011

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

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
 - Contract HK/2009/02: CMA4a
 - Contract HY/2009/15: CMA3a
 - 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
 - Contract HK/2009/02: M1a
 - Contract HY/2009/15: M2b
 - Contract HY/2009/17: M4b
 - Contract HY/2009/19: M3a, M4b, M5b, M6
 - 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). & Restricted hours noise (i.e. outside 07:00-19:00 of normal weekday) will be monitored for 3 nos. Leq(5min) as per the relevant Construction Noise Permit(s) in force



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
07/10/11	9:07	Cloudy	74.4	77.3	70.0	69.2	73	75
11/10/11	15:21	Cloudy	73.9	76.0	70.8	69.2	72	75
18/10/11	9:53	Fine	72.5	75.0	68.6	69.2	70	75
25/10/11	9:45	Fine	74.3	76.7	70.5	69.2	73	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
07/10/11	9:54	Cloudy	69.0	70.5	67.0	-	69	75
11/10/11	16:15	Cloudy	68.4	70.0	66.2	-	68	75
18/10/11	10:42	Fine	67.8	69.4	66.0	-	68	75
25/10/11	10:28	Fine	70.1	71.8	67.7	-	70	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)								
07/10/11	10:47	Sunny	69.2	71.0	66.7	-	69	75
13/10/11	10:29	Cloudy	69.5	70.3	65.2	-	70	75
18/10/11	11:25	Fine	67.8	69.5	65.4	-	68	75
25/10/11	11:15	Fine	68.2	69.9	65.6	-	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)								
07/10/11	11:30	Sunny	72.3	75.9	66.7	-	72	75
13/10/11	11:18	Cloudy	70.9	72.1	68.8	-	71	75
18/10/11	13:05	Fine	73.3	75.1	70.6	-	73	75
25/10/11	13:00	Fine	70.4	71.7	68.2	-	70	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)								
07/10/11	13:42	Fine	69.4	70.4	68.1	-	69	75
13/10/11	17:03	Cloudy	70.0	72.5	67.8	-	70	75
18/10/11	14:42	Fine	71.6	73.3	69.5	-	72	75
25/10/11	15:11	Cloudy	71.2	73.9	69.3	-	71	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), (30min)								
07/10/11	14:25	Cloudy	73.4	75.0	71.2	70.7	70	70
13/10/11	16:18	Cloudy	72.9	73.6	70.3	70.7	69	70
18/10/11	13:55	Fine	73.2	75.1	71.2	70.7	70	70
25/10/11	14:06	Fine	72.1	73.6	70.1	70.7	67	70



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)								
07/10/11	15:28	Cloudy	75.2	77.0	72.5	-	75	75
11/10/11	8:15	Cloudy	76.5	79.0	72.3	-	77	75
18/10/11	8:13	Fine	75.3	77.6	71.5	-	75	75
25/10/11	8:13	Fine	75.3	77.2	71.5	-	75	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)								
07/10/11	16:10	Cloudy	71.1	72.4	66.1	-	71	75
11/10/11	9:52	Cloudy	70.4	71.3	69.1	-	70	75
18/10/11	8:54	Fine	68.0	69.5	66.2	-	68	75
25/10/11	8:50	Fine	68.2	70.0	65.8	-	68	75



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)									
07/10/11	21:07	Fine	70.6	73.0	66.6	71.3	61.1	71	70
	21:12		72.2	74.4	68.9				
	21:18		70.9	73.2	67.4				
11/10/11	22:08	Cloudy	68.1	70.7	63.0	68.7	61.1	68	70
	22:13		69.2	71.1	63.4				
	22:19		68.8	70.9	63.2				
18/10/11	21:10	Fine	69.3	72.1	64.2	69.6	61.1	69	70
	21:15		69.8	72.9	64.8				
	21:21		69.7	72.8	61.8				
25/10/11	21:49	Cloudy	71.0	73.8	64.3	71.0	61.1	71	70
	21:55		71.3	74.7	65.5				
	22:01		70.7	73.1	64.6				

Location: M2b - Noon-day gun area

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)									
07/10/11	20:00	Fine	69.1	70.5	67.4	68.8	-	69	70
	20:05		68.9	70.2	67.2				
	20:10		68.5	69.9	66.8				
11/10/11	20:12	Cloudy	69.0	70.9	66.1	68.7	-	69	70
	20:17		68.7	70.7	66.2				
	20:22		68.5	70.5	66.0				
18/10/11	19:19	Fine	67.1	69.1	64.8	66.8	-	67	70
	19:24		67.0	68.9	65.0				
	19:29		66.2	68.0	64.1				
25/10/11	19:04	Cloudy	66.1	67.7	64.2	66.2	-	66	70
	19:10		66.7	68.0	65.1				
	19:16		65.7	66.9	64.1				

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

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)									
07/10/11	19:00	Fine	66.7	68.0	63.8	66.9	-	67	70
	19:05		67.3	67.4	63.9				
	19:11		66.7	68.3	63.7				
11/10/11	20:23	Cloudy	62.0	63.9	59.2	62.4	-	62	70
	20:28		62.7	64.6	60.0				
	20:34		62.5	64.4	60.1				
18/10/11	19:00	Fine	66.3	66.6	62.6	65.4	-	65	70
	19:05		65.3	67.3	62.8				
	19:11		64.5	65.8	62.3				
25/10/11	19:30	Cloudy	69.8	71.0	68.7	69.6	-	70	70
	19:35		69.9	71.4	68.4				
	19:41		69.1	70.2	67.9				

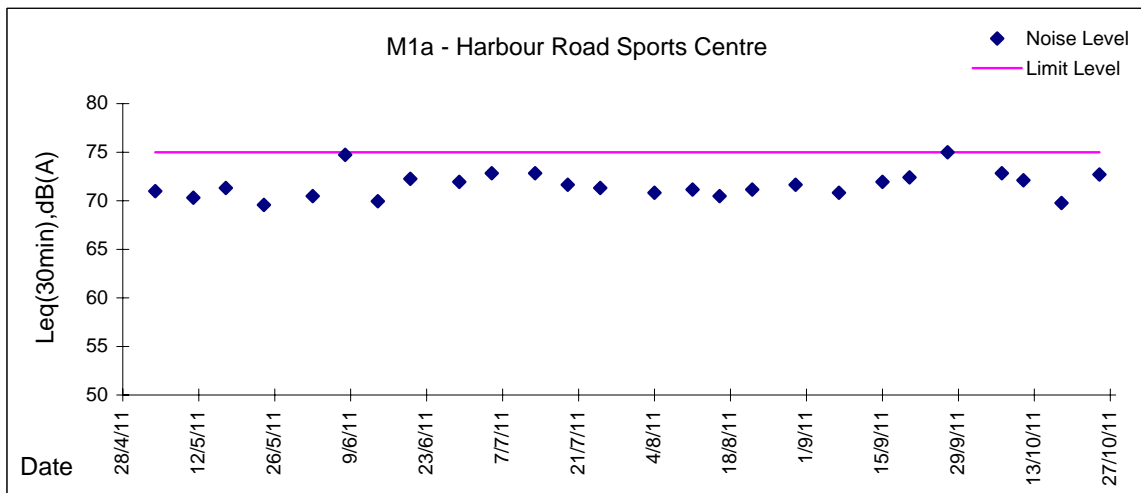
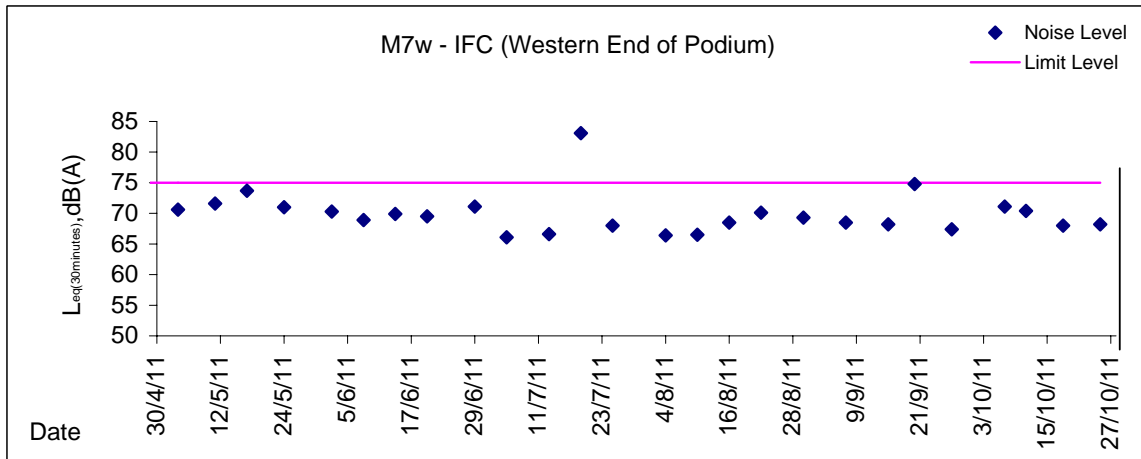
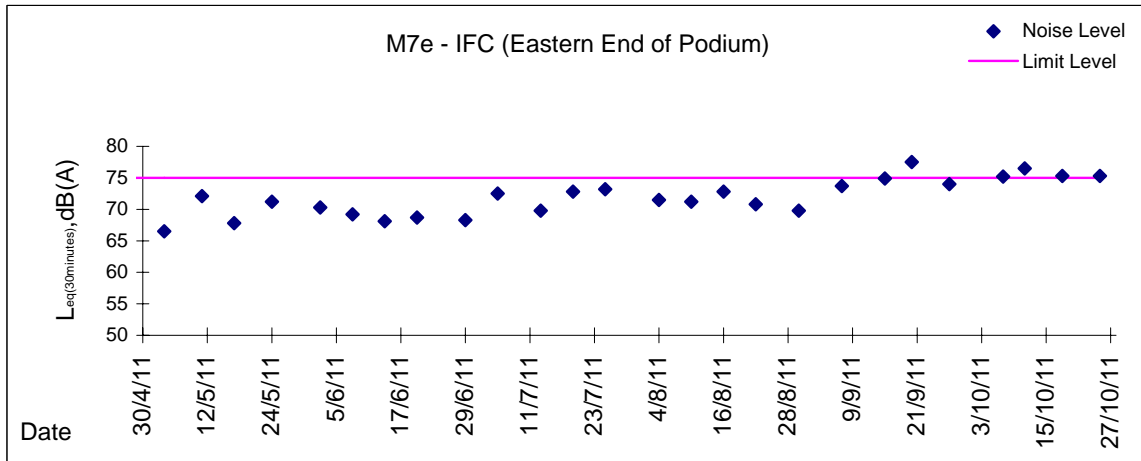
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Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
07/10/11	19:20	Fine	66.7	70.1	62.6	65.5	-	66	70
	19:25		65.5	67.0	63.3				
	19:31		63.9	65.4	61.8				
11/10/11	20:05	Cloudy	61.7	63.0	59.9	61.8	-	62	70
	20:10		61.5	62.9	60.2				
	20:16		62.1	63.4	60.0				
18/10/11	19:25	Fine	64.2	66.4	61.3	63.9	-	64	70
	19:30		64.2	66.7	61.5				
	19:36		63.4	65.3	61.1				
25/10/11	19:00	Cloudy	67.1	70.1	62.9	66.8	-	67	70
	19:05		66.3	68.6	63.2				
	19:11		67.1	69.3	63.7				



Graphic Presentation of Noise Monitoring Result

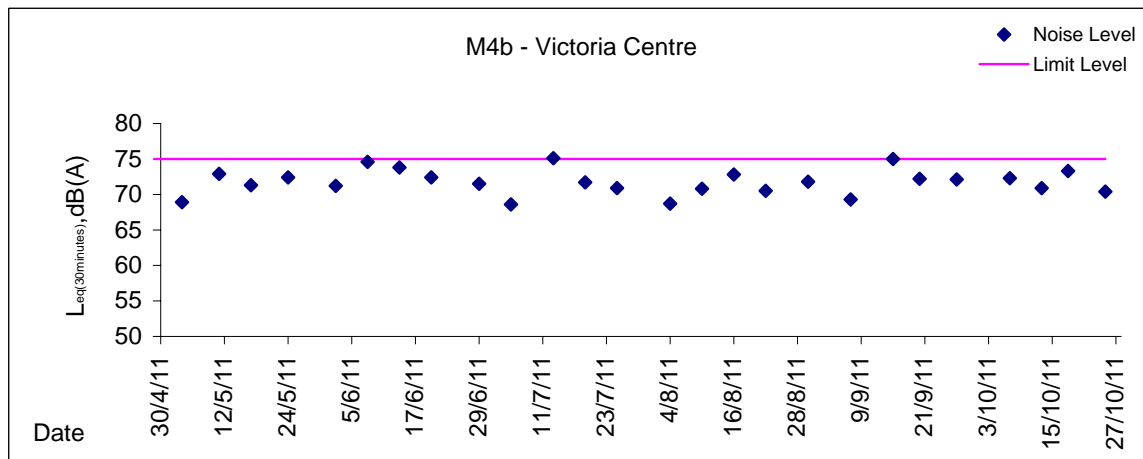
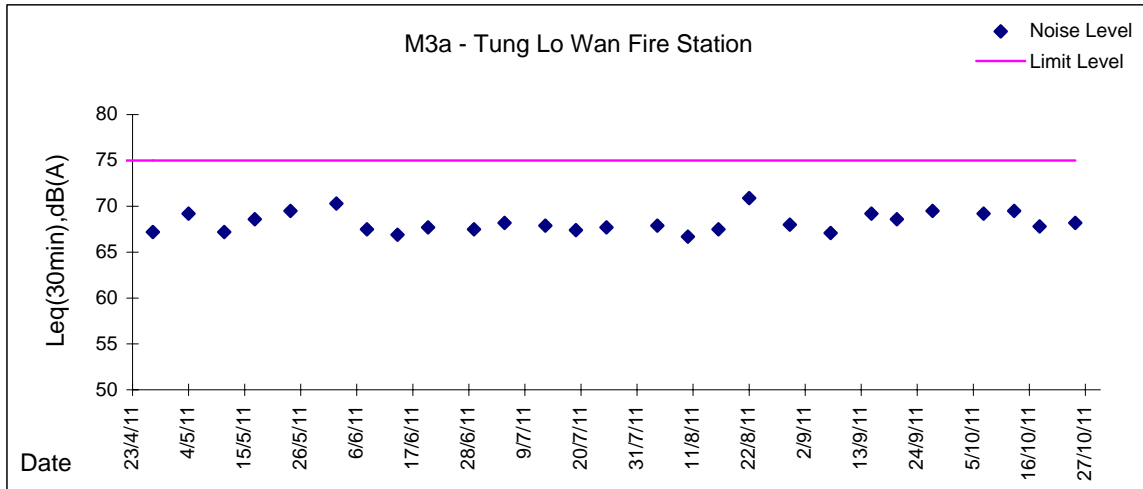
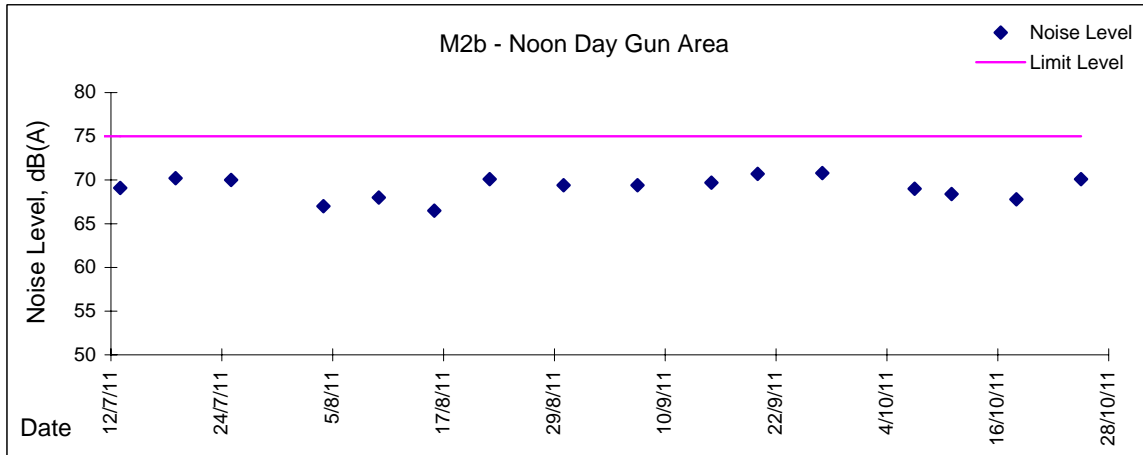
Day Time (0700 - 1900hrs on normal weekdays)





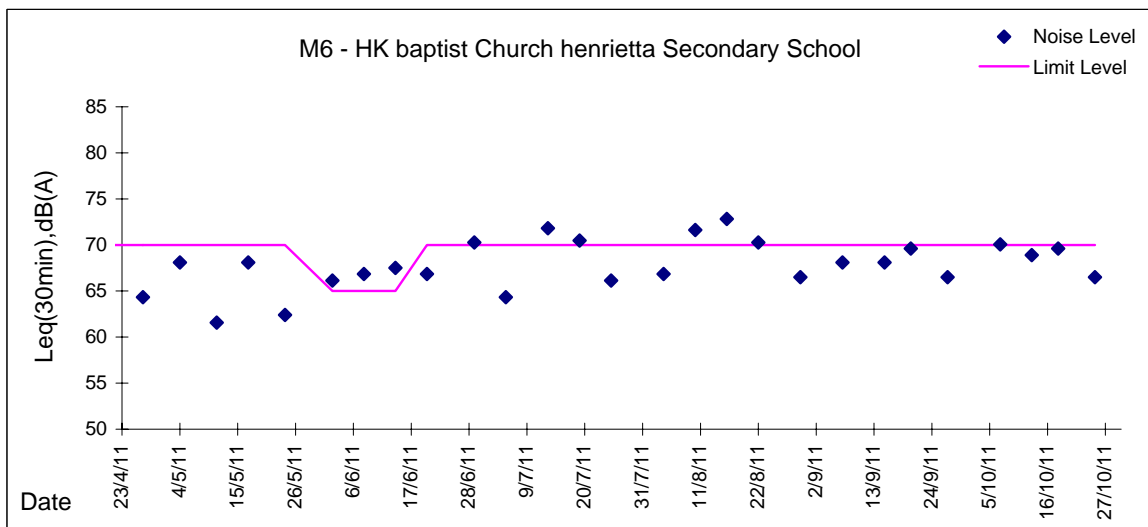
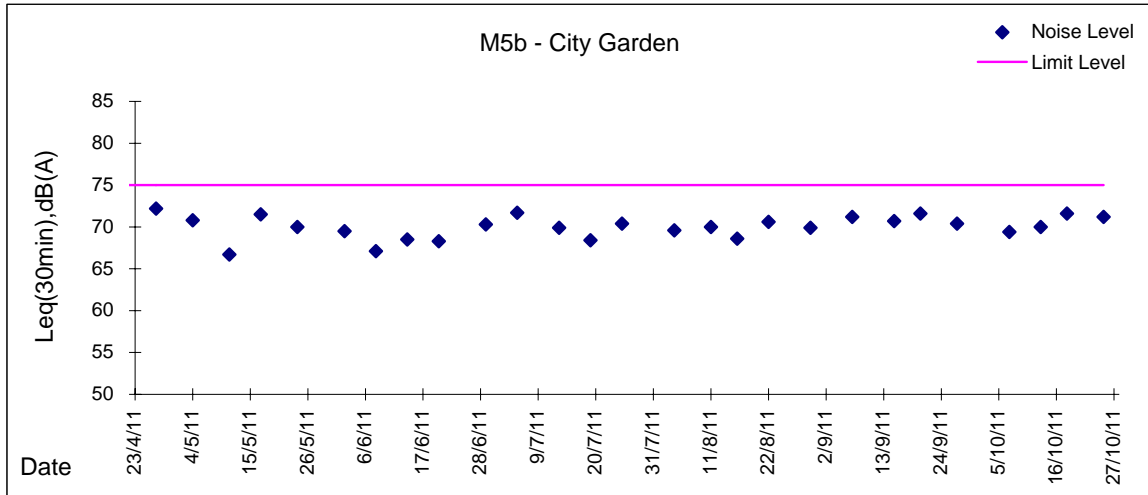
Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)





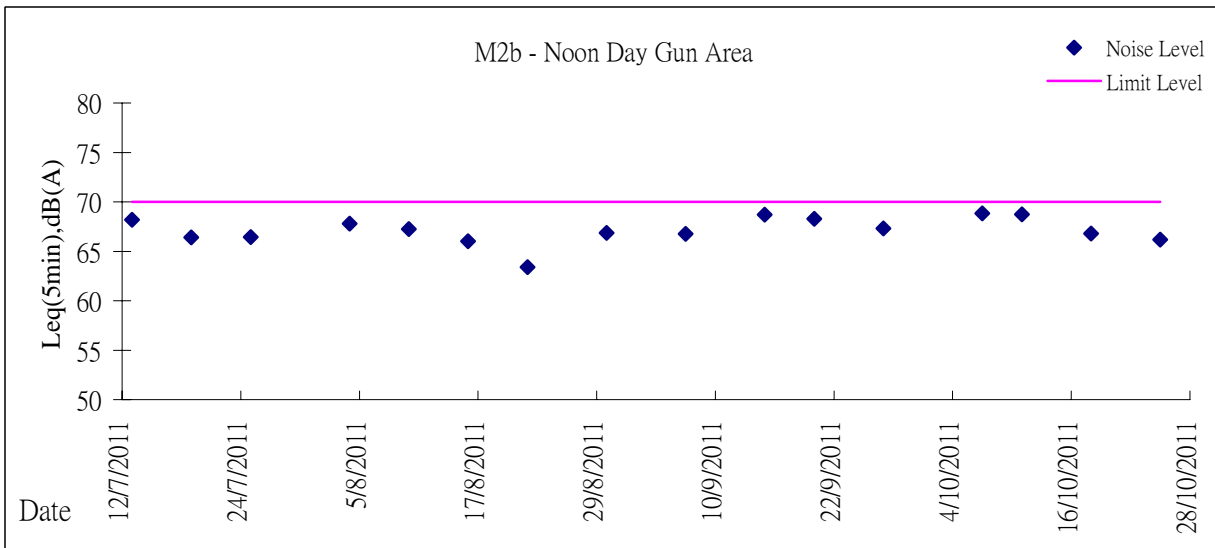
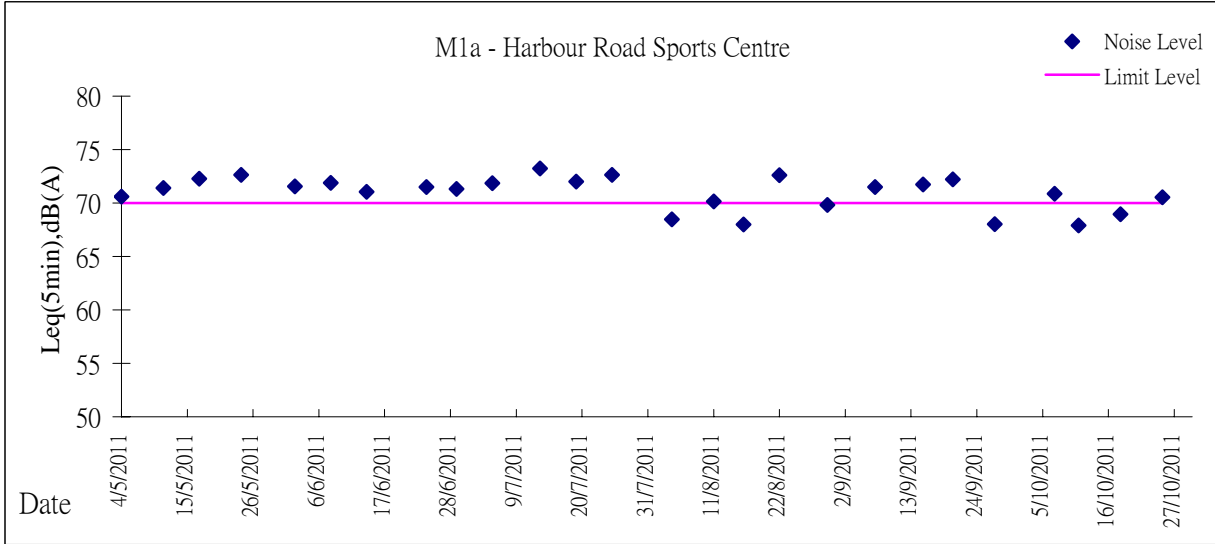
Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)

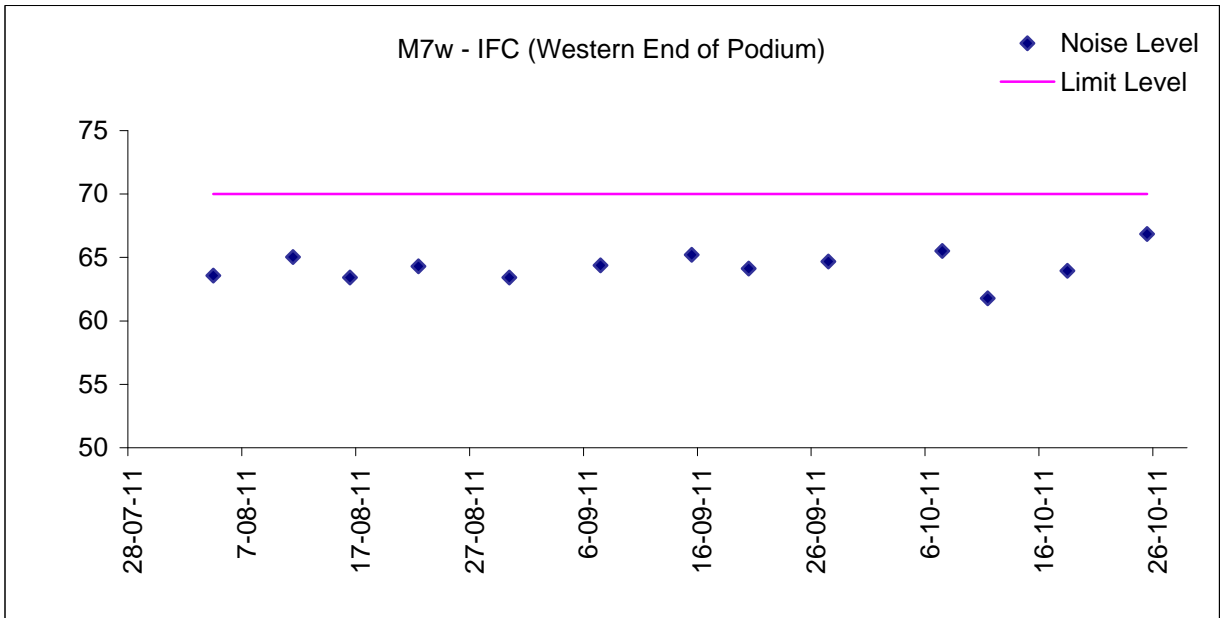
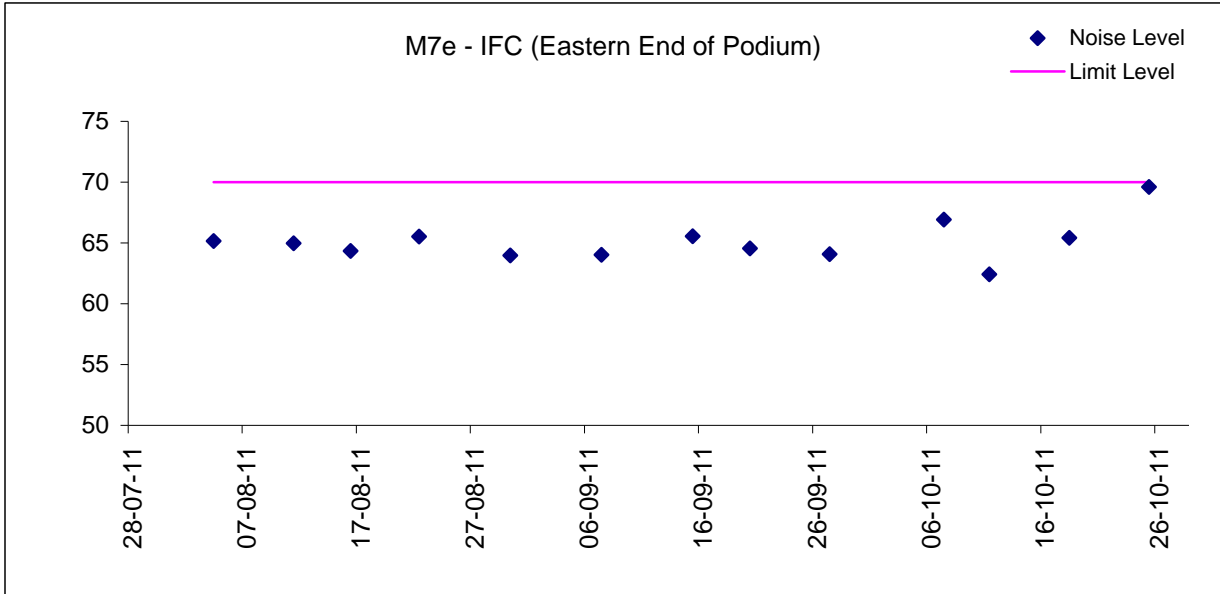




Graphic Presentation of Noise Monitoring Result

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







Appendix 5.3

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



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		
28-Sep-11	8:00	Cloudy	001296	2.8633	3.0548	14393.86	14417.85	23.99	1.41	1.44	1.43	2053	93
3-Oct-11	8:00	Cloudy	001213	2.7621	2.8547	14420.85	14444.86	24.01	1.47	1.47	1.47	2122	44
8-Oct-11	8:00	Fine	001328	2.7921	2.9983	14445.86	14469.87	24.01	1.33	1.38	1.35	1951	106
14-Oct-11	8:00	Fine	001312	2.8703	2.9665	14472.87	14496.88	24.01	1.42	1.42	1.42	2051	47
20-Oct-11	8:00	Sunny	001317	2.8739	3.0802	14499.88	14523.88	24.00	1.37	1.37	1.37	1967	105
26-Oct-11	8:00	Sunny	001418	2.7671	2.9393	14499.88	14523.88	24.00	1.41	1.41	1.41	2026	85

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		
30-Sep-11	8:45	Fine	001337	2.7841	2.7903	14417.85	14418.85	1.00	1.33	1.33	1.33	80	78
30-Sep-11	9:50	Fine	001336	2.7893	2.7970	14418.85	14419.85	1.00	1.40	1.37	1.38	83	93
30-Sep-11	10:53	Fine	001335	2.7771	2.7872	14419.85	14420.85	1.00	1.37	1.37	1.37	82	123
4-Oct-11	9:01	Cloudy	001332	2.8090	2.8151	14444.86	14445.86	1.00	1.38	1.38	1.38	83	74
4-Oct-11	10:07	Cloudy	001300	2.8633	2.8729	14445.86	14446.86	1.00	1.43	1.43	1.43	86	112
4-Oct-11	13:00	Cloudy	001301	2.8694	2.8800	14446.86	14447.86	1.00	1.40	1.40	1.40	84	126
10-Oct-11	11:00	Cloudy	001169	2.7691	2.7826	14469.87	14470.87	1.00	1.40	1.40	1.40	84	161
10-Oct-11	13:30	Cloudy	001192	2.7489	2.7631	14470.87	14471.87	1.00	1.42	1.42	1.42	85	166
10-Oct-11	16:40	Cloudy	001068	2.8196	2.8297	14471.87	14472.87	1.00	1.42	1.42	1.42	85	118
15-Oct-11	8:35	Fine	001320	2.8488	2.8533	14496.88	14497.88	1.00	1.28	1.28	1.28	77	58
15-Oct-11	9:42	Fine	001319	2.8623	2.8692	14497.88	14498.88	1.00	1.38	1.38	1.38	83	84
15-Oct-11	10:50	Fine	001318	2.8613	2.8696	14498.88	14499.88	1.00	1.42	1.42	1.42	85	97
21-Oct-11	8:45	Sunny	001313	2.8906	2.9032	14523.88	14524.88	1.00	1.39	1.39	1.39	83	151
21-Oct-11	9:50	Sunny	001385	2.7723	2.7852	14524.88	14525.88	1.00	1.32	1.32	1.32	79	164
21-Oct-11	10:55	Sunny	001386	2.7735	2.7828	14525.88	14526.88	1.00	1.32	1.32	1.32	79	118
27-Oct-11	8:57	Fine	001388	2.7732	2.7791	9816.89	9817.89	1.00	1.25	1.25	1.25	75	79
27-Oct-11	9:59	Fine	001390	2.7621	2.7695	9817.86	9818.86	1.00	1.35	1.35	1.35	81	91
27-Oct-11	11:00	Fine	001391	2.7648	2.7754	9818.86	9819.86	1.00	1.35	1.35	1.35	81	130



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring
 Action Level ($\mu\text{g}/\text{m}^3$) - 171
 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		
28-Sep-11	8:00	Cloudy	001295	2.8730	3.1192	10226.52	10250.52	24.00	1.44	1.44	1.44	2067	119
3-Oct-11	10:00	Cloudy	001354	2.7772	2.8879	10253.52	10277.59	24.07	1.42	1.47	1.45	2091	53
8-Oct-11	8:00	Fine	001375	2.7729	3.0787	10280.59	10304.60	24.01	1.42	1.42	1.42	2046	149
14-Oct-11	8:00	Fine	001171	2.7562	2.8767	10307.60	10331.61	24.01	1.45	1.45	1.45	2082	58
20-Oct-11	8:00	Sunny	001096	2.7903	3.0665	10334.61	10358.61	24.00	1.39	1.39	1.39	2002	138
26-Oct-11	8:00	Fine	001473	2.7852	2.9382	10361.61	10385.61	24.00	1.46	1.46	1.46	2105	73

Report on 1-hour TSP monitoring
 Action Level ($\mu\text{g}/\text{m}^3$) - 311.3
 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		
30-Sep-11	9:57	Fine	001360	2.7864	2.7949	10250.52	10251.52	1.00	1.41	1.41	1.41	85	100
30-Sep-11	11:00	Fine	001359	2.7968	2.8051	10251.52	10252.52	1.00	1.41	1.41	1.41	85	98
30-Sep-11	15:16	Fine	001358	2.7995	2.8099	10252.52	10253.52	1.00	1.41	1.41	1.41	85	123
4-Oct-11	11:00	Cloudy	001356	2.7744	2.7853	10277.59	10278.59	1.00	1.45	1.45	1.45	87	126
4-Oct-11	13:00	Cloudy	001348	2.7937	2.8032	10278.59	10279.59	1.00	1.47	1.47	1.47	88	107
4-Oct-11	14:38	Cloudy	001372	2.7862	2.7967	10279.59	10280.59	1.00	1.45	1.45	1.45	87	121
10-Oct-11	9:48	Cloudy	001381	2.7765	2.7879	10304.60	10305.60	1.00	1.42	1.42	1.42	85	134
10-Oct-11	10:53	Cloudy	001383	2.7883	2.8006	10305.60	10306.60	1.00	1.44	1.44	1.44	87	142
10-Oct-11	13:51	Cloudy	001384	2.7694	2.7853	10306.60	10307.60	1.00	1.47	1.47	1.47	88	180
15-Oct-11	9:00	Fine	001408	2.7993	2.8061	10331.61	10332.61	1.00	1.45	1.45	1.45	87	78
15-Oct-11	10:05	Fine	001410	2.7713	2.7786	10332.61	10333.61	1.00	1.45	1.45	1.45	87	84
15-Oct-11	13:10	Fine	001412	2.7912	2.8056	10333.61	10334.61	1.00	1.45	1.45	1.45	87	166
21-Oct-11	10:14	Sunny	001414	2.7663	2.7822	10358.61	10359.61	1.00	1.41	1.41	1.41	85	188
21-Oct-11	13:00	Sunny	001416	2.7686	2.7848	10359.61	10360.61	1.00	1.41	1.41	1.41	85	191
21-Oct-11	15:17	Sunny	001099	2.7928	2.8086	10360.61	10361.61	1.00	1.44	1.44	1.44	86	183
27-Oct-11	8:35	Fine	001491	2.7903	2.8008	10385.61	10386.61	1.00	1.46	1.46	1.46	88	120
27-Oct-11	13:00	Fine	001494	2.7730	2.7844	10386.61	10387.61	1.00	1.49	1.49	1.49	89	128
27-Oct-11	14:23	Fine	001485	2.7545	2.7665	10387.61	10388.61	1.00	1.51	1.51	1.51	91	132



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		
28-Sep-11	8:00	Cloudy	001294	2.8650	2.9498	13876.21	13900.20	23.99	1.02	1.02	1.02	1472	58
3-Oct-11	10:00	Cloudy	001221	2.7591	2.8284	13903.20	13927.21	24.01	1.18	1.18	1.18	1700	41
8-Oct-11	8:00	Fine	001373	2.7763	2.9684	13930.21	13954.23	24.02	1.13	1.13	1.13	1627	118
14-Oct-11	8:00	Fine	001066	2.7826	2.8506	13957.23	13981.23	24.00	1.13	1.15	1.14	1642	41
20-Oct-11	8:00	Sunny	001090	2.7857	2.8998	13984.23	14008.24	24.01	1.10	1.10	1.10	1580	72
26-Oct-11	8:00	Fine	001486	2.7718	2.9063	14011.31	14035.31	24.00	0.99	0.99	0.99	1421	95

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		
30-Sep-11	9:44	Fine	001340	2.7737	2.7794	13900.20	13901.20	1.00	1.10	1.10	1.10	66	86
30-Sep-11	10:46	Fine	001339	2.7703	2.7764	13901.20	13902.20	1.00	1.10	1.10	1.10	66	93
30-Sep-11	15:04	Fine	001353	2.7806	2.7884	13902.20	13903.20	1.00	1.10	1.10	1.10	66	118
4-Oct-11	10:51	Cloudy	001355	2.7624	2.7681	13927.21	13928.21	1.00	1.18	1.18	1.18	71	81
4-Oct-11	13:00	Cloudy	001349	2.7783	2.7843	13928.21	13929.21	1.00	1.16	1.18	1.17	70	86
4-Oct-11	14:20	Cloudy	001357	2.7935	2.8001	13929.21	13930.21	1.00	1.18	1.18	1.18	71	93
10-Oct-11	9:32	Cloudy	001374	2.7810	2.7891	13954.23	13955.23	1.00	1.18	1.15	1.16	70	116
10-Oct-11	10:35	Cloudy	001382	2.7841	2.7911	13955.23	13956.23	1.00	1.15	1.15	1.15	69	101
10-Oct-11	13:00	Cloudy	001387	2.7891	2.7971	13956.23	13957.23	1.00	1.13	1.13	1.13	68	118
15-Oct-11	8:44	Fine	001407	2.7882	2.7919	13981.23	13982.23	1.00	1.18	1.18	1.18	71	52
15-Oct-11	9:58	Fine	001409	2.7835	2.7882	13982.23	13983.23	1.00	1.18	1.18	1.18	71	67
15-Oct-11	13:02	Fine	001411	2.7868	2.7937	13983.23	13984.23	1.00	1.18	1.18	1.18	71	98
21-Oct-11	10:03	Sunny	001413	2.7988	2.8067	14008.24	14009.24	1.00	1.24	1.24	1.24	75	106
21-Oct-11	13:00	Sunny	001415	2.7743	2.7816	14009.23	14010.23	1.00	1.22	1.22	1.22	73	100
21-Oct-11	15:10	Sunny	001389	2.7654	2.7736	14010.23	14011.23	1.00	1.22	1.24	1.23	74	111
27-Oct-11	8:48	Fine	001492	2.7845	2.7894	14035.31	14036.31	1.00	1.13	1.13	1.13	68	73
27-Oct-11	13:00	Fine	001493	2.7761	2.7831	14036.31	14037.31	1.00	1.13	1.13	1.13	68	104
27-Oct-11	14:37	Fine	001496	2.7616	2.7679	14037.31	14038.31	1.00	1.13	1.13	1.13	68	93



Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 181
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		
28-Sep-11	8:00	Cloudy	001292	2.8581	2.9732	14859.38	14883.38	24.00	1.09	1.03	1.06	1528	75
3-Oct-11	8:00	Cloudy	001334	2.7647	2.8424	14886.38	14910.19	23.81	1.10	1.13	1.12	1596	49
8-Oct-11	8:00	Fine	001190	2.7473	2.9830	14913.19	14937.20	24.01	1.16	1.16	1.16	1670	141
14-Oct-11	8:00	Fine	001070	2.8149	2.9443	14940.21	14964.18	23.97	1.10	1.10	1.10	1582	82
20-Oct-11	8:00	Sunny	001092	2.7981	2.9721	14967.18	14991.18	24.00	1.32	1.29	1.30	1879	93
26-Oct-11	8:00	Fine	001403	2.7925	2.9605	14994.18	15018.18	24.00	1.18	1.15	1.16	1674	100

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 332
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		
30-Sep-11	8:10	Fine	001219	2.7646	2.7712	14883.38	14884.38	1.00	1.15	1.15	1.15	69	95
30-Sep-11	9:15	Fine	001217	2.7661	2.7828	14884.38	14885.38	1.00	1.12	1.12	1.12	67	248
30-Sep-11	10:20	Fine	001215	2.7558	2.7638	14885.38	14886.38	1.00	1.15	1.15	1.15	69	116
4-Oct-11	8:15	Cloudy	001212	2.7651	2.7732	14910.19	14911.19	1.00	1.19	1.19	1.19	71	113
4-Oct-11	9:20	Cloudy	001347	2.7897	2.7941	14911.19	14912.19	1.00	0.93	0.93	0.93	56	79
4-Oct-11	10:23	Cloudy	001188	2.7630	2.7699	14912.19	14913.19	1.00	1.04	1.10	1.07	64	107
10-Oct-11	9:35	Cloudy	001377	2.7877	2.7965	14937.20	14938.20	1.00	1.16	1.16	1.16	69	127
10-Oct-11	11:00	Cloudy	001379	2.7696	2.7778	14938.20	14939.20	1.00	0.98	0.98	0.98	59	139
10-Oct-11	13:00	Cloudy	001380	2.7736	2.7852	14939.20	14940.20	1.00	0.92	0.92	0.92	55	209
15-Oct-11	8:03	Fine	001087	2.7960	2.8037	14964.18	14965.18	1.00	1.16	1.16	1.16	70	111
15-Oct-11	9:09	Fine	001088	2.7796	2.7853	14965.18	14966.18	1.00	1.16	1.16	1.16	70	82
15-Oct-11	10:11	Fine	001094	2.8059	2.8145	14966.18	14967.18	1.00	1.16	1.16	1.16	70	124
21-Oct-11	8:15	Sunny	001398	2.7873	2.7979	14991.18	14992.18	1.00	1.32	1.32	1.32	79	134
21-Oct-11	9:20	Sunny	001399	2.7770	2.7878	14992.18	14993.18	1.00	1.32	1.32	1.32	79	137
21-Oct-11	10:35	Sunny	001401	2.7674	2.7772	14993.18	14994.18	1.00	1.32	1.32	1.32	79	124
27-Oct-11	8:20	Fine	001422	2.7855	2.7921	15018.18	15019.18	1.00	1.18	1.18	1.18	71	94
27-Oct-11	9:30	Fine	001424	2.7873	2.7986	15019.18	15020.18	1.00	1.18	1.18	1.18	71	160
27-Oct-11	10:38	Fine	001426	2.7780	2.7885	15020.18	15021.18	1.00	1.20	1.20	1.20	72	145



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		
28-Sep-11	8:00	Cloudy	001270	2.8523	3.0686	7499.22	7523.21	23.99	1.31	1.33	1.32	1906	113
3-Oct-11	8:00	Cloudy	001342	2.7703	2.8570	7526.21	7550.22	24.01	1.37	1.37	1.37	1968	44
8-Oct-11	8:00	Fine	001299	2.8694	3.0427	7553.22	7577.24	24.02	1.24	1.26	1.25	1801	96
14-Oct-11	8:00	Cloudy	001364	2.7701	2.8632	7580.24	7604.24	24.00	1.34	1.34	1.34	1934	48
20-Oct-11	8:00	Sunny	001198	2.7555	2.9623	7607.25	7631.25	24.00	1.39	1.39	1.39	2002	103
26-Oct-11	8:00	Fine	001402	2.7744	2.9122	7634.25	7658.25	24.00	1.23	1.23	1.23	1774	78

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		
30-Sep-11	8:16	Fine	001275	2.8433	2.8519	7523.21	7524.21	1.00	1.32	1.32	1.32	79	109
30-Sep-11	9:20	Fine	001278	2.8474	2.8551	7524.21	7525.21	1.00	1.32	1.32	1.32	79	97
30-Sep-11	10:28	Fine	001280	2.8641	2.8720	7525.21	7526.21	1.00	1.32	1.32	1.32	79	100
4-Oct-11	8:16	Cloudy	001345	2.7775	2.7820	7550.22	7551.22	1.00	1.35	1.35	1.35	81	56
4-Oct-11	10:30	Cloudy	001326	2.7861	2.7910	7551.22	7552.22	1.00	1.16	1.16	1.16	69	71
4-Oct-11	15:25	Cloudy	001324	2.7839	2.7905	7552.22	7553.22	1.00	1.30	1.30	1.30	78	84
10-Oct-11	8:20	Cloudy	001350	2.7884	2.7935	7577.24	7578.24	1.00	1.34	1.34	1.34	81	63
10-Oct-11	9:55	Cloudy	001352	2.7816	2.7887	7578.24	7579.24	1.00	1.34	1.34	1.34	81	88
10-Oct-11	10:39	Cloudy	001362	2.7858	2.7925	7579.24	7580.24	1.00	1.34	1.34	1.34	81	83
15-Oct-11	8:11	Fine	001366	2.7720	2.7778	7604.25	7605.25	1.00	1.72	1.72	1.72	103	56
15-Oct-11	9:36	Fine	001368	2.7546	2.7598	7605.25	7606.25	1.00	1.72	1.72	1.72	103	50
15-Oct-11	10:39	Fine	001370	2.7637	2.7717	7606.25	7607.25	1.00	1.72	1.72	1.72	103	77
21-Oct-11	8:19	Sunny	001200	2.7540	2.7634	7631.25	7632.25	1.00	1.41	1.41	1.41	85	111
21-Oct-11	9:24	Sunny	001194	2.7640	2.7738	7632.25	7633.25	1.00	1.41	1.41	1.41	85	116
21-Oct-11	10:28	Sunny	001196	2.7443	2.7553	7633.25	7634.25	1.00	1.41	1.41	1.41	85	130
27-Oct-11	9:28	Fine	001502	2.7745	2.7807	7658.25	7659.25	1.00	1.21	1.21	1.21	73	85
27-Oct-11	13:00	Fine	001484	2.7940	2.7995	7659.25	7660.25	1.00	1.07	1.07	1.07	64	85
27-Oct-11	14:30	Fine	001395	2.7760	2.7840	7660.25	7661.25	1.00	1.23	1.23	1.23	74	108



Location: MA1w - International Finance Centre (Western Wing)

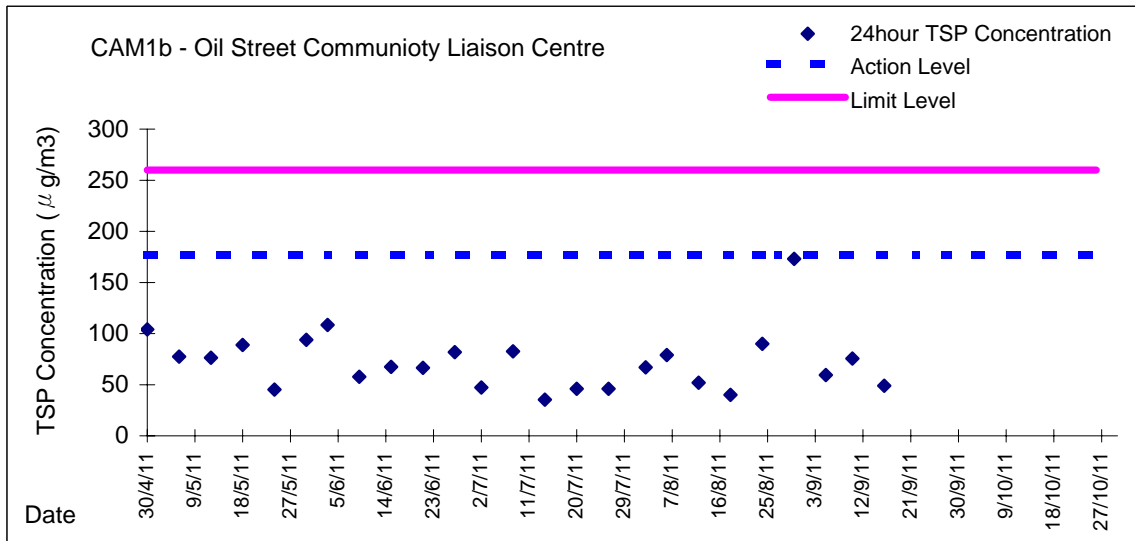
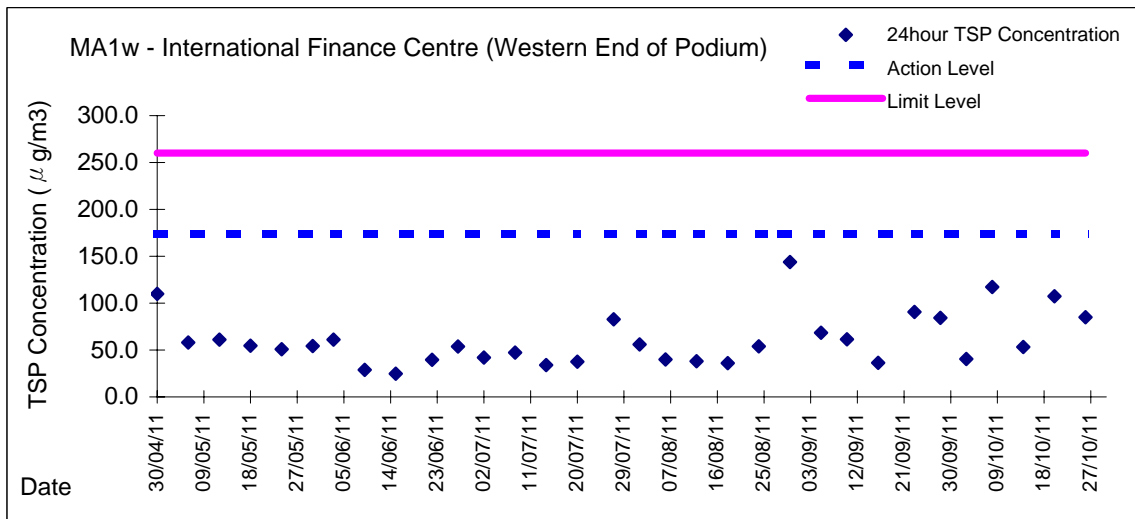
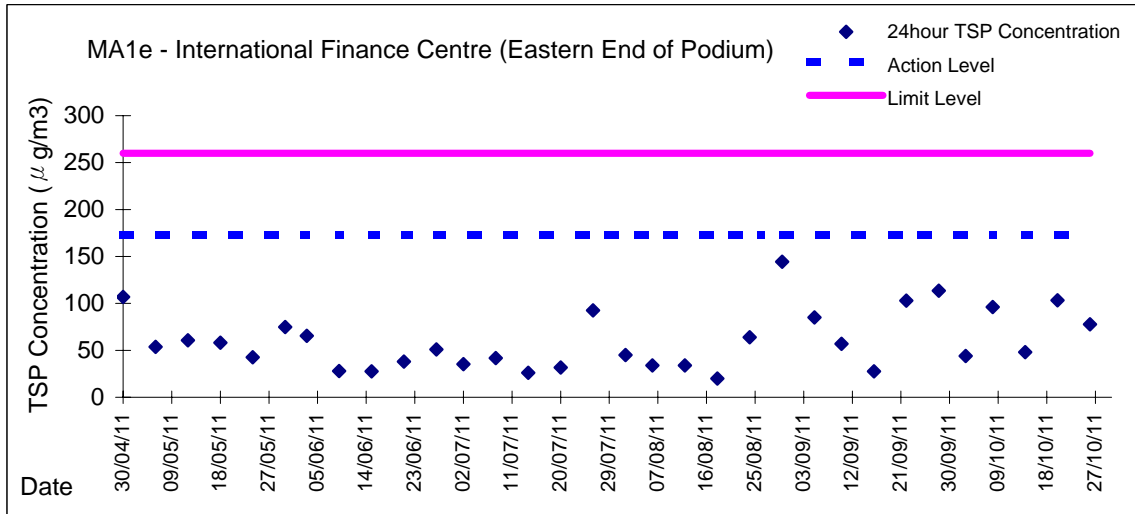
Report on 24-hour TSP monitoring
 Action Level ($\mu\text{g}/\text{m}^3$) - 173.4
 Limit Level ($\mu\text{g}/\text{m}^3$) - 260

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		
28-Sep-11	8:00	Cloudy	001222	2.8825	3.0554	10677.53	10701.52	23.99	1.43	1.43	1.43	2051	84
3-Oct-11	8:00	Cloudy	001343	2.7725	2.8564	10704.52	10728.53	24.01	1.44	1.44	1.44	2072	41
8-Oct-11	8:00	Fine	001298	2.8528	3.0829	10731.54	10755.55	24.01	1.36	1.36	1.36	1964	117
14-Oct-11	8:00	Fine	001365	2.7571	2.8661	10758.55	10782.56	24.01	1.41	1.44	1.42	2050	53
20-Oct-11	8:00	Sunny	001199	2.7463	2.9689	10785.56	10809.56	24.00	1.44	1.44	1.44	2073	107
26-Oct-11	8:00	Fine	001072	2.7814	2.9477	10812.56	10835.66	24.00	1.41	1.41	1.41	1956	85

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

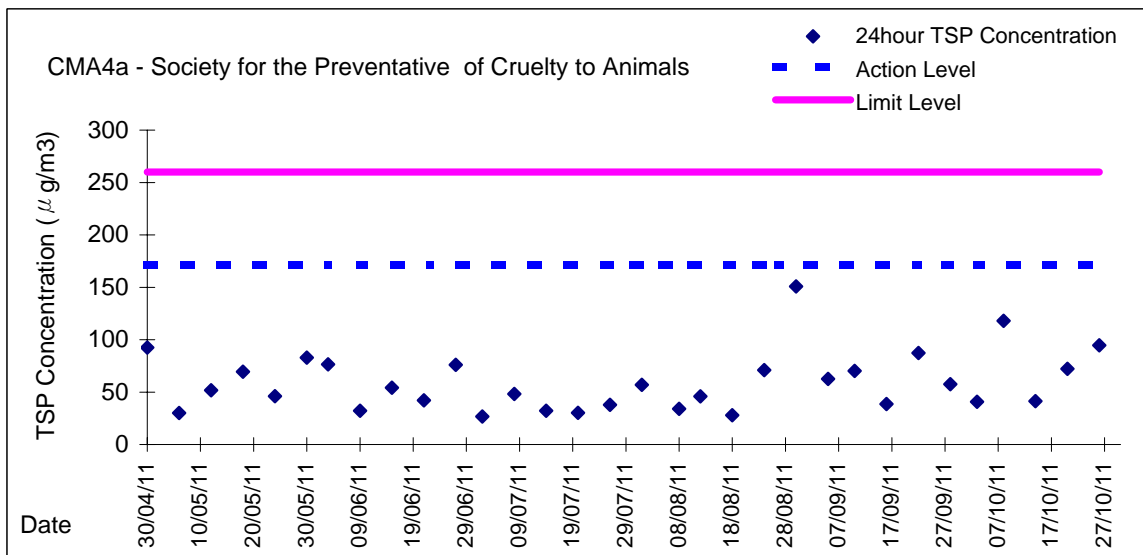
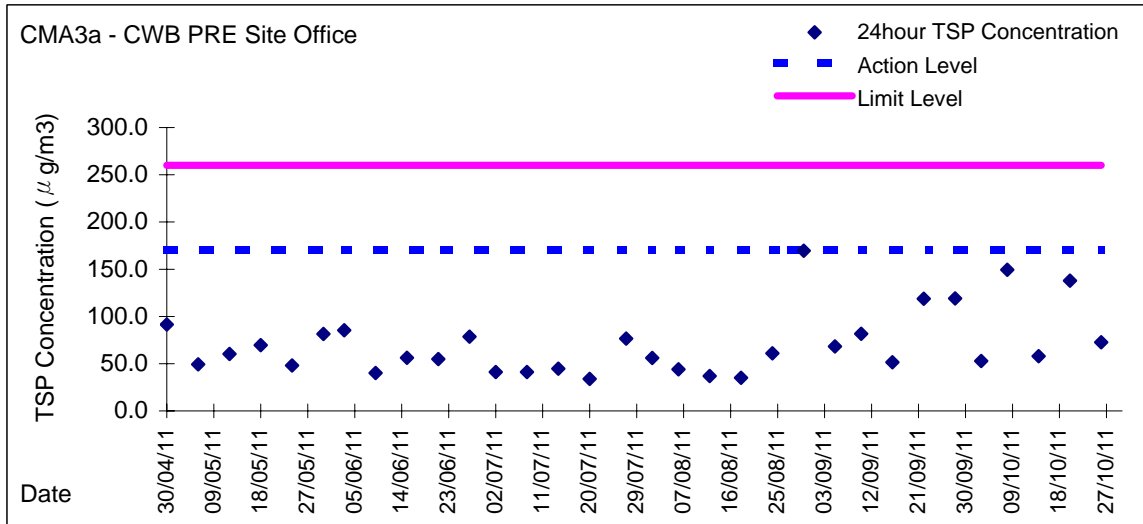
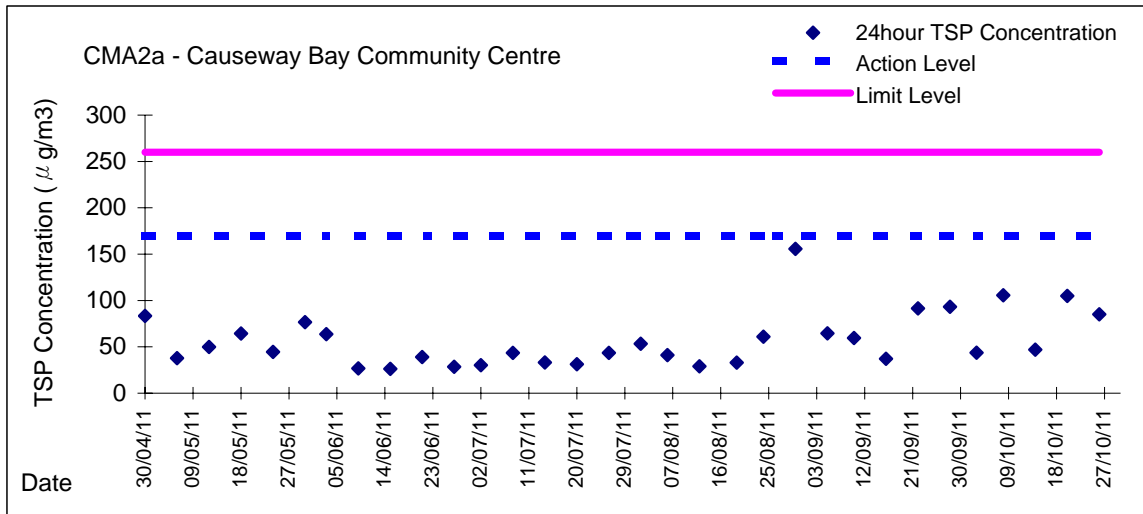
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Sep-11	8:24	Fine	001276	2.8395	2.8478	10701.52	10702.52	1.00	1.21	1.21	1.21	73	114
30-Sep-11	9:29	Fine	001279	2.8586	2.8657	10702.52	10703.52	1.00	1.21	1.21	1.21	73	98
30-Sep-11	10:34	Fine	001341	2.7580	2.7630	10703.52	10704.52	1.00	1.21	1.21	1.21	73	69
4-Oct-11	8:23	Cloudy	001346	2.7965	2.8023	10728.53	10729.54	1.01	1.36	1.36	1.36	83	70
4-Oct-11	10:38	Cloudy	001325	2.7789	2.7851	10729.54	10730.54	1.00	1.27	1.27	1.27	76	82
4-Oct-11	15:32	Cloudy	001297	2.8506	2.8611	10730.54	10731.54	1.00	1.36	1.36	1.36	82	128
10-Oct-11	8:28	Cloudy	001351	2.7625	2.7696	10755.55	10756.55	1.00	1.31	1.36	1.34	80	89
10-Oct-11	9:41	Cloudy	001361	2.7865	2.7941	10756.55	10757.55	1.00	1.22	1.36	1.29	77	98
10-Oct-11	10:45	Cloudy	001363	2.8016	2.8092	10757.55	10758.55	1.00	1.41	1.41	1.41	85	90
15-Oct-11	8:19	Fine	001367	2.7677	2.7730	10782.56	10783.56	1.00	1.36	1.36	1.36	82	65
15-Oct-11	9:42	Fine	001369	2.7574	2.7630	10783.56	10784.56	1.00	1.36	1.36	1.36	82	69
15-Oct-11	10:49	Fine	001371	2.7724	2.7788	10784.56	10785.56	1.00	1.36	1.36	1.36	82	78
21-Oct-11	8:27	Sunny	001193	2.7626	2.7739	10809.56	10810.56	1.00	1.41	1.41	1.41	85	133
21-Oct-11	9:33	Sunny	001195	2.7649	2.7760	10810.56	10811.56	1.00	1.41	1.41	1.41	85	131
21-Oct-11	10:36	Sunny	001197	2.7577	2.7690	10811.56	10812.56	1.00	1.41	1.41	1.41	85	133
27-Oct-11	9:19	Fine	001501	2.7766	2.7840	10835.66	10836.66	1.00	1.39	1.39	1.39	83	89
27-Oct-11	13:00	Fine	001485	2.7701	2.7793	10836.66	10837.66	1.00	1.39	1.39	1.39	83	111
27-Oct-11	14:40	Fine	001396	2.7835	2.7943	10837.66	10838.66	1.00	1.39	1.39	1.39	83	130

Graphic Presentation of 24 hour TSP Result



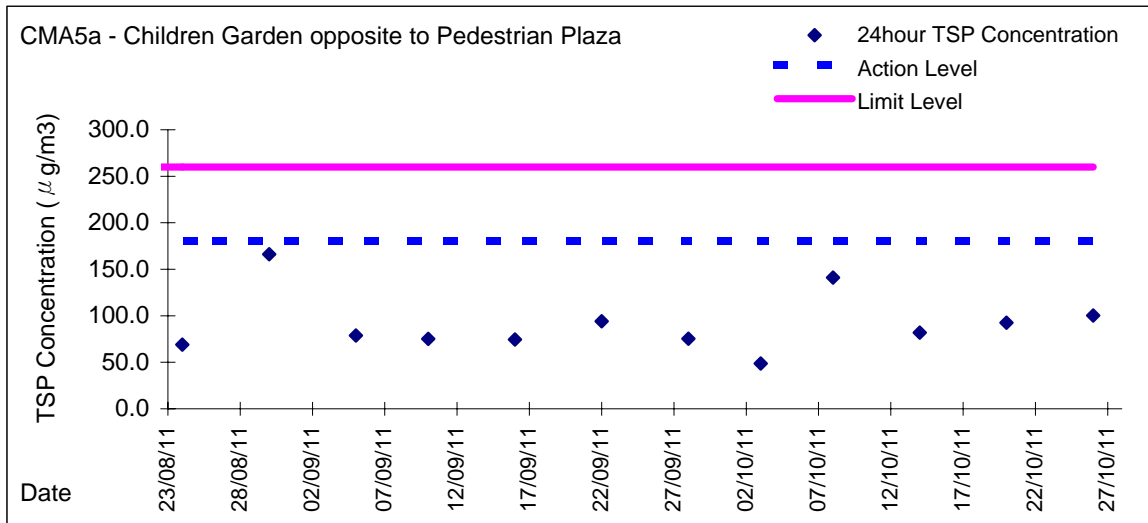


Graphic Presentation of 24 hour TSP Result

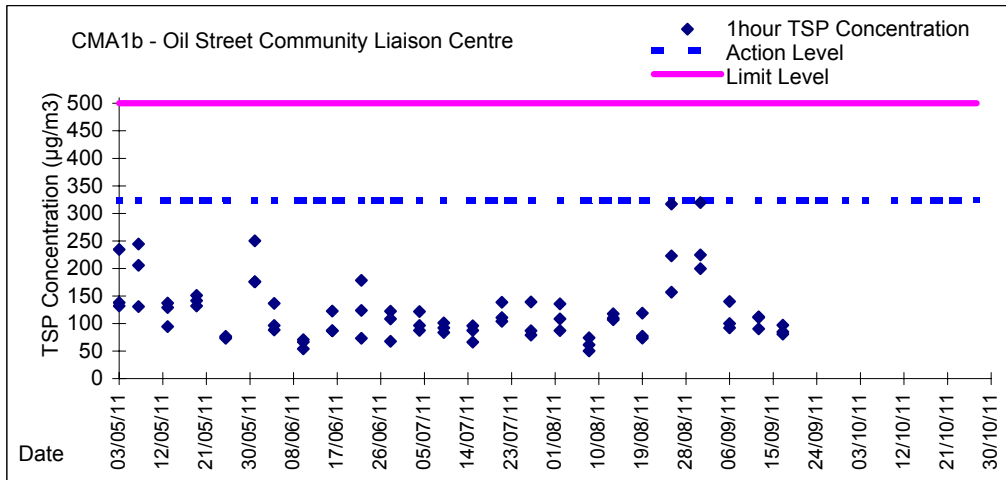
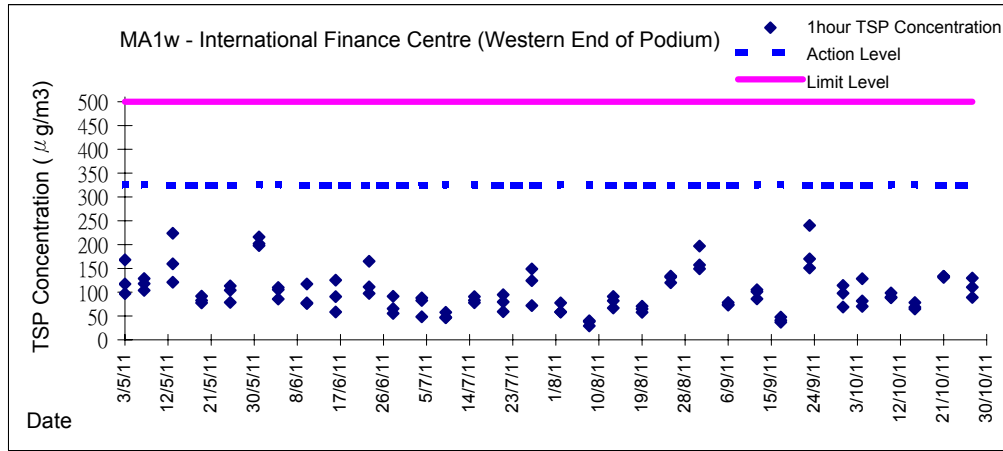
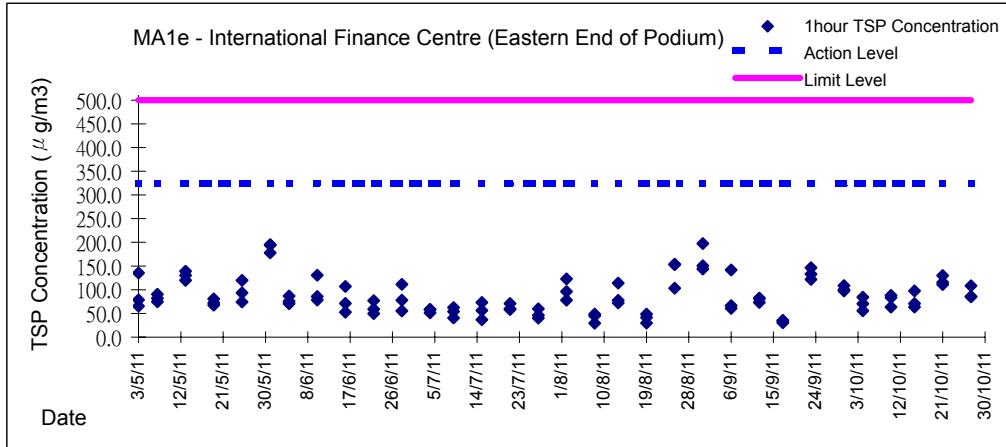




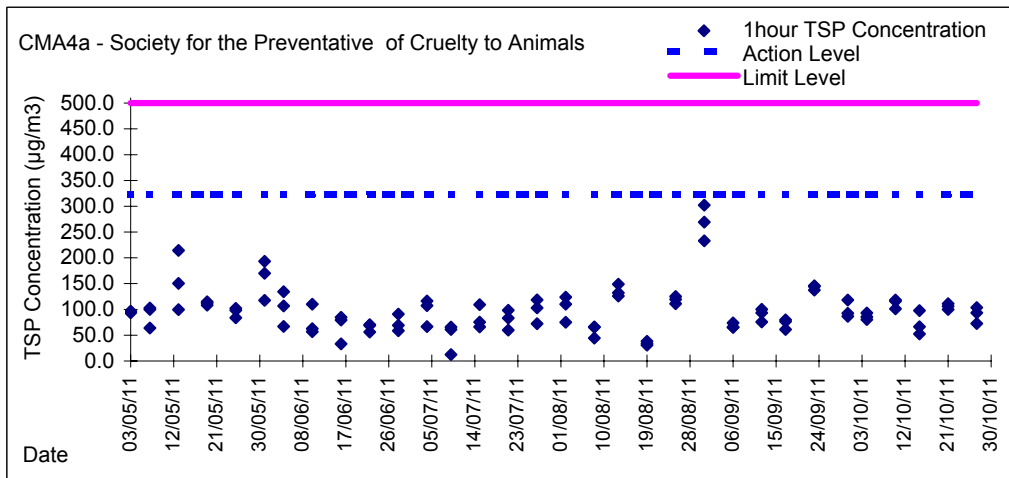
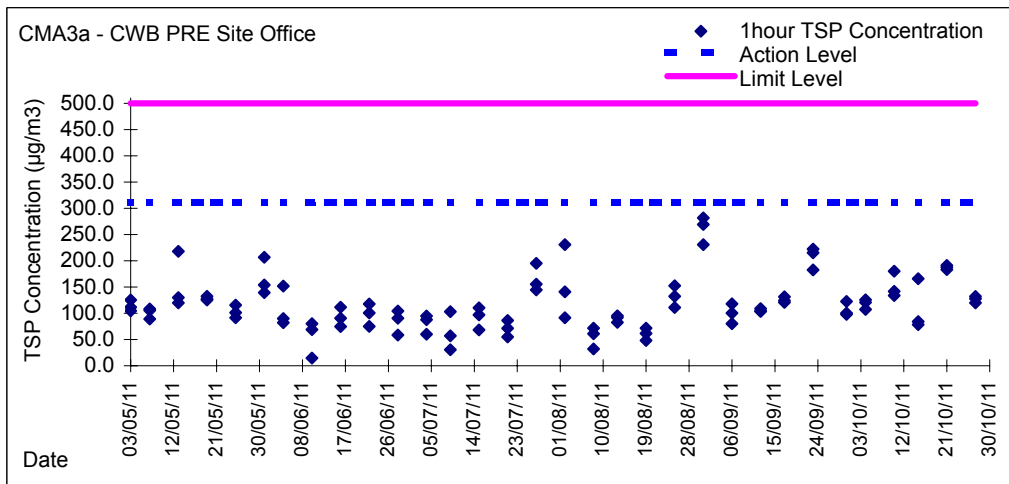
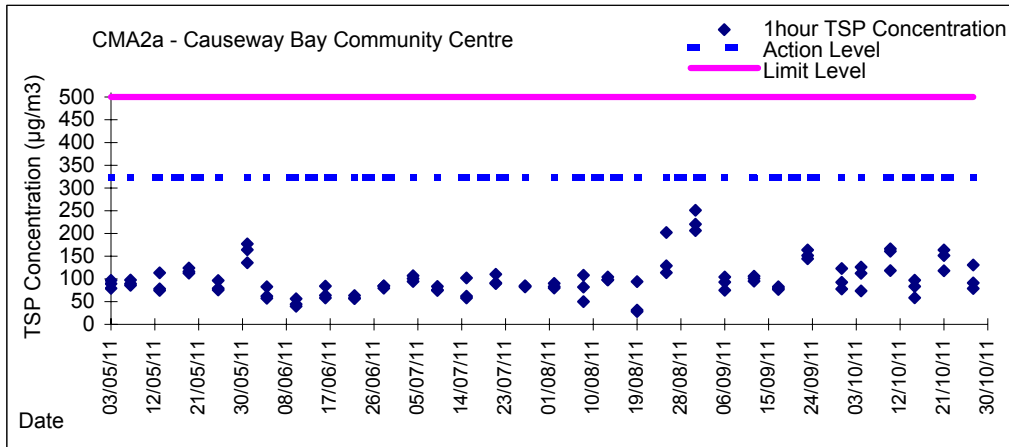
Graphic Presentation of 24 hour TSP Result



Graphic Presentation of 1 hour TSP Result

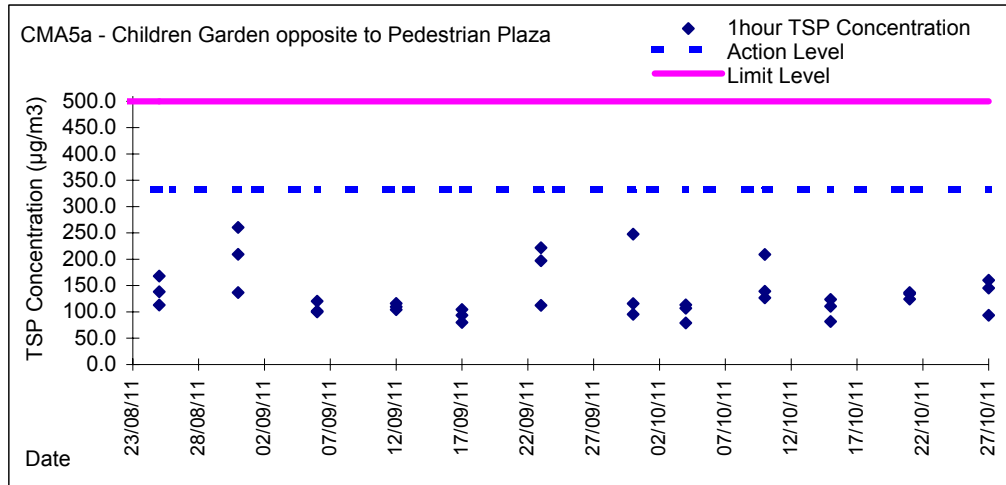


Graphic Presentation of 1 hour TSP Result





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

28/9/2011 7:01	65.0
28/9/2011 7:31	65.6
28/9/2011 8:01	66.0
28/9/2011 8:31	68.5
28/9/2011 9:01	68.6
28/9/2011 9:31	69.0
28/9/2011 10:01	70.0
28/9/2011 10:31	69.8
28/9/2011 11:01	69.8
28/9/2011 11:31	68.4
28/9/2011 12:01	66.1
28/9/2011 12:31	65.3
28/9/2011 13:01	70.1
28/9/2011 13:31	71.6
28/9/2011 14:01	70.5
28/9/2011 14:31	70.1
28/9/2011 15:01	70.0
28/9/2011 15:31	69.0
28/9/2011 16:01	66.1
28/9/2011 16:31	65.8
28/9/2011 17:01	70.1
28/9/2011 17:31	67.1
28/9/2011 18:01	65.0
28/9/2011 18:31	64.4
29/9/2011 7:01	65.0
29/9/2011 7:31	67.2
29/9/2011 8:01	67.2
29/9/2011 8:31	66.2
29/9/2011 9:01	67.4
29/9/2011 9:31	66.8
29/9/2011 10:01	67.4
29/9/2011 10:31	70.2
29/9/2011 11:01	70.3
29/9/2011 11:31	67.7
29/9/2011 12:01	66.3
29/9/2011 12:31	65.8
29/9/2011 13:01	71.3
29/9/2011 13:31	72.1
29/9/2011 14:01	70.3
29/9/2011 14:31	69.7
29/9/2011 15:01	70.7
29/9/2011 15:31	68.2
29/9/2011 16:01	68.4
29/9/2011 16:31	68.9
29/9/2011 17:01	69.9
29/9/2011 17:31	67.2
29/9/2011 18:01	65.0
29/9/2011 18:31	64.5
30/9/2011 7:01	65.0
30/9/2011 7:31	65.6
30/9/2011 8:01	66.1
30/9/2011 8:31	68.8
30/9/2011 9:01	69.3
30/9/2011 9:31	69.3
30/9/2011 10:01	70.0
30/9/2011 10:31	69.8
30/9/2011 11:01	69.8
30/9/2011 11:31	68.2
30/9/2011 12:01	66.0
30/9/2011 12:31	65.3
30/9/2011 13:01	70.7
30/9/2011 13:31	71.8
30/9/2011 14:01	70.1
30/9/2011 14:31	69.5
30/9/2011 15:01	70.0
30/9/2011 15:31	68.2
30/9/2011 16:01	67.8
30/9/2011 16:31	69.3
30/9/2011 17:01	69.6
30/9/2011 17:31	66.9
30/9/2011 18:01	65.0
30/9/2011 18:31	64.5
3/10/2011 7:01	65.0
3/10/2011 7:31	65.5
3/10/2011 8:01	66.1
3/10/2011 8:31	68.5
3/10/2011 9:01	68.7
3/10/2011 9:31	69.0
3/10/2011 10:01	68.9
3/10/2011 10:31	69.8
3/10/2011 11:01	69.5
3/10/2011 11:31	68.9
3/10/2011 12:01	66.1
3/10/2011 12:31	65.5
3/10/2011 13:01	69.7
3/10/2011 13:31	68.1
3/10/2011 14:01	68.3
3/10/2011 14:31	68.1
3/10/2011 15:01	67.5
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3/10/2011 16:01	68.8
3/10/2011 16:31	72.9
3/10/2011 17:01	71.5
3/10/2011 17:31	68.0
3/10/2011 18:01	65.0
3/10/2011 18:31	64.4
4/10/2011 7:01	65.3
4/10/2011 7:31	65.7
4/10/2011 8:01	65.3
4/10/2011 8:31	66.7
4/10/2011 9:01	68.1
4/10/2011 9:31	68.5
4/10/2011 10:01	69.3
4/10/2011 10:31	68.1
4/10/2011 11:01	68.8
4/10/2011 11:31	68.3
4/10/2011 12:01	65.3
4/10/2011 12:31	64.5
4/10/2011 13:01	68.5

4/10/2011 13:31	67.1
4/10/2011 14:01	67.9
4/10/2011 14:31	67.3
4/10/2011 15:01	66.9
4/10/2011 15:31	65.8
4/10/2011 16:01	68.9
4/10/2011 16:31	68.8
4/10/2011 17:01	69.2
4/10/2011 17:31	66.1
4/10/2011 18:01	64.6
4/10/2011 18:31	63.0
6/10/2011 7:01	64.9
6/10/2011 7:31	65.5
6/10/2011 8:01	65.3
6/10/2011 8:31	68.9
6/10/2011 9:01	69.5
6/10/2011 9:31	68.9
6/10/2011 10:01	68.7
6/10/2011 10:31	69.1
6/10/2011 11:01	67.9
6/10/2011 11:31	66.9
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6/10/2011 12:31	65.5
6/10/2011 13:01	66.1
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6/10/2011 14:01	69.0
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6/10/2011 17:31	68.9
6/10/2011 18:01	64.4
6/10/2011 18:31	62.6
7/10/2011 7:01	65.0
7/10/2011 7:31	65.6
7/10/2011 8:01	65.7
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7/10/2011 18:01	65.0
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8/10/2011 7:01	65.1
8/10/2011 7:31	65.6
8/10/2011 8:01	65.6
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8/10/2011 12:01	65.2
8/10/2011 12:31	65.4
8/10/2011 13:01	66.2
8/10/2011 13:31	69.0
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8/10/2011 14:31	68.1
8/10/2011 15:01	72.1
8/10/2011 15:31	68.8
8/10/2011 16:01	68.1
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8/10/2011 17:31	67.1
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10/10/2011 16:31	66.6
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10/10/2011 17:31	64.7
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11/10/2011 8:31	68.7
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13/10/2011 11:31	67.7
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15/10/2011 7:31	65.8
15/10/2011 8:01	66.7
15/10/2011 8:31	66.7
15/10/2011 9:01	66.7
15/10/2011 9:31	67.7
15/10/2011 10:01	67.8
15/10/2011 10:31	68.0
15/10/2011 11:01	68.8
15/10/2011 11:31	66.7
15/10/2011 12:01	65.5
15/10/2011 12:31	65.8
15/10/2011 13:01	67.4
15/10/2011 13:31	69.4
15/10/2011 14:01	69.8
15/10/2011 14:31	68.3
15/10/2011 15:01	68.8

15/10/2011 15:31	67.5
15/10/2011 16:01	68.9
15/10/2011 16:31	67.4
15/10/2011 17:01	68.2
15/10/2011 17:31	67.1
15/10/2011 18:01	65.6
15/10/2011 18:31	64.5
17/10/2011 7:01	65.1
17/10/2011 7:31	66.1
17/10/2011 8:01	65.0
17/10/2011 8:31	69.5
17/10/2011 9:01	69.1
17/10/2011 9:31	69.1
17/10/2011 10:01	70.4
17/10/2011 10:31	69.0
17/10/2011 11:01	66.4
17/10/2011 12:01	65.8
17/10/2011 12:31	65.9
17/10/2011 13:01	68.4
17/10/2011 13:31	69.4
17/10/2011 14:01	70.5
17/10/2011 14:31	70.4
17/10/2011 15:01	69.8
17/10/2011 15:31	70.0
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17/10/2011 16:31	69.2
17/10/2011 17:01	68.8
17/10/2011 17:31	66.9
17/10/2011 18:01	65.1
17/10/2011 18	

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

29/9/2011 21:41	64.2	1/10/2011 10:51	63.6	1/10/2011 20:01	63.9	2/10/2011 13:11	65.4	2/10/2011 22:21	63.8	5/10/2011 7:31	62.4
29/9/2011 21:46	64.1	1/10/2011 10:56	64.0	1/10/2011 20:06	65.2	2/10/2011 13:16	64.7	2/10/2011 22:26	63.4	5/10/2011 7:36	63.1
29/9/2011 21:51	64.2	1/10/2011 11:01	64.4	1/10/2011 20:11	64.2	2/10/2011 13:21	65.3	2/10/2011 22:31	63.5	5/10/2011 7:41	63.8
29/9/2011 21:56	64.0	1/10/2011 11:06	64.1	1/10/2011 20:16	64.0	2/10/2011 13:26	65.7	2/10/2011 22:36	63.9	5/10/2011 7:46	63.7
29/9/2011 22:01	64.1	1/10/2011 11:11	64.0	1/10/2011 20:21	63.7	2/10/2011 13:31	65.5	2/10/2011 22:41	63.7	5/10/2011 7:51	63.9
29/9/2011 22:06	64.0	1/10/2011 11:16	64.0	1/10/2011 20:26	63.4	2/10/2011 13:36	64.7	2/10/2011 22:46	63.4	5/10/2011 7:56	63.5
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29/9/2011 22:16	63.7	1/10/2011 11:26	64.0	1/10/2011 20:36	63.9	2/10/2011 13:46	64.5	2/10/2011 22:56	65.1	5/10/2011 8:06	63.8
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29/9/2011 22:31	63.7	1/10/2011 11:41	63.7	1/10/2011 20:51	63.6	2/10/2011 14:01	64.9	3/10/2011 19:11	63.6	5/10/2011 8:21	64.3
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29/9/2011 22:41	64.2	1/10/2011 11:51	63.7	1/10/2011 21:01	63.9	2/10/2011 14:11	64.5	3/10/2011 19:21	64.8	5/10/2011 8:31	64.2
29/9/2011 22:46	63.6	1/10/2011 11:56	63.7	1/10/2011 21:06	64.1	2/10/2011 14:16	64.6	3/10/2011 19:26	64.0	5/10/2011 8:36	64.0
29/9/2011 22:51	64.3	1/10/2011 12:01	63.4	1/10/2011 21:11	63.6	2/10/2011 14:21	64.7	3/10/2011 19:31	64.9	5/10/2011 8:41	64.4
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30/9/2011 19:01	64.0	1/10/2011 12:11	63.9	1/10/2011 21:21	63.5	2/10/2011 14:31	64.6	3/10/2011 19:41	64.3	5/10/2011 8:51	64.1
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30/9/2011 19:16	64.2	1/10/2011 12:26	63.3	1/10/2011 21:36	63.2	2/10/2011 14:46	65.4	3/10/2011 19:56	64.2	5/10/2011 9:06	64.2
30/9/2011 19:21	64.4	1/10/2011 12:31	63.8	1/10/2011 21:41	63.5	2/10/2011 14:51	64.9	3/10/2011 20:01	64.6	5/10/2011 9:11	64.4
30/9/2011 19:26	64.7	1/10/2011 12:36	63.3	1/10/2011 21:46	63.2	2/10/2011 14:56	65.3	3/10/2011 20:06	64.8	5/10/2011 9:16	65.0
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30/9/2011 19:36	64.7	1/10/2011 12:46	63.5	1/10/2011 21:56	63.4	2/10/2011 15:06	65.0	3/10/2011 20:16	66.3	5/10/2011 9:26	64.5
30/9/2011 19:41	64.4	1/10/2011 12:51	63.3	1/10/2011 22:01	63.3	2/10/2011 15:11	64.8	3/10/2011 20:21	65.5	5/10/2011 9:31	64.6
30/9/2011 19:46	64.9	1/10/2011 12:56	64.3	1/10/2011 22:06	63.1	2/10/2011 15:16	64.7	3/10/2011 20:26	65.1	5/10/2011 9:36	64.9
30/9/2011 19:51	65.2	1/10/2011 13:01	65.3	1/10/2011 22:11	62.9	2/10/2011 15:21	65.1	3/10/2011 20:31	65.5	5/10/2011 9:41	64.7
30/9/2011 19:56	64.5	1/10/2011 13:06	64.8	1/10/2011 22:16	62.9	2/10/2011 15:26	64.3	3/10/2011 20:36	65.4	5/10/2011 9:46	64.9
30/9/2011 20:01	64.5	1/10/2011 13:11	65.4	1/10/2011 22:21	63.4	2/10/2011 15:31	64.6	3/10/2011 20:41	65.1	5/10/2011 9:51	64.8
30/9/2011 20:06	64.9	1/10/2011 13:16	64.5	1/10/2011 22:26	63.3	2/10/2011 15:36	64.7	3/10/2011 20:46	64.7	5/10/2011 9:56	65.2
30/9/2011 20:11	64.8	1/10/2011 13:21	65.7	1/10/2011 22:31	63.2	2/10/2011 15:41	64.8	3/10/2011 20:51	64.9	5/10/2011 10:01	65.5
30/9/2011 20:16	64.9	1/10/2011 13:26	66.1	1/10/2011 22:36	63.7	2/10/2011 15:46	64.5	3/10/2011 20:56	65.3	5/10/2011 10:06	65.2
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30/9/2011 20:26	64.8	1/10/2011 13:36	64.5	1/10/2011 22:46	63.4	2/10/2011 15:56	64.5	3/10/2011 21:06	64.6	5/10/2011 10:16	64.9
30/9/2011 20:31	64.4	1/10/2011 13:41	64.4	1/10/2011 22:51	64.9	2/10/2011 16:01	64.7	3/10/2011 21:11	64.9	5/10/2011 10:21	65.1
30/9/2011 20:36	64.6	1/10/2011 13:46	64.4	1/10/2011 22:56	67.5	2/10/2011 16:06	64.3	3/10/2011 21:16	65.1	5/10/2011 10:26	64.5
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30/9/2011 21:11	64.2	1/10/2011 14:21	64.6	2/10/2011 7:31	63.1	2/10/2011 16:41	64.7	3/10/2011 21:51	64.9	5/10/2011 11:01	64.6
30/9/2011 21:16	64.8	1/10/2011 14:26	64.5	2/10/2011 7:36	63.4	2/10/2011 16:46	64.8	3/10/2011 21:56	65.0	5/10/2011 11:06	65.0
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30/9/2011 21:26	64.4	1/10/2011 14:36	64.3	2/10/2011 7:46	64.3	2/10/2011 16:56	65.2	3/10/2011 22:06	65.4	5/10/2011 11:16	65.0
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30/9/2011 21:36	64.2	1/10/2011 14:46	64.6	2/10/2011 7:56	63.9	2/10/2011 17:06	65.0	3/10/2011 22:16	65.1	5/10/2011 11:26	64.7
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30/9/2011 21:46	64.4	1/10/2011 14:56	64.6	2/10/2011 8:06	63.4	2/10/2011 17:16	64.8	3/10/2011 22:26	64.3	5/10/2011 11:36	64.5
30/9/2011 21:51	64.2	1/10/2011 15:01	64.2	2/10/2011 8:11	64.0	2/10/2011 17:21	65.0	3/10/2011 22:31	64.2	5/10/2011 11:41	64.7
30/9/2011 21:56	64.0	1/10/2011 15:06	64.3	2/10/2011 8:16	63.5	2/10/2011 17:26	65.0	3/10/2011 22:36	64.9	5/10/2011 11:46	65.4
30/9/2011 22:01	64.3	1/10/2011 15:11	64.0	2/10/2011 8:21	63.7	2/10/2011 17:31	65.0	3/10/2011 22:41	64.5	5/10/2011 11:51	63.5
30/9/2011 22:06	64.1	1/10/2011 15:16	63.9	2/10/2011 8:26	64.2	2/10/2011 17:36	65.0	3/10/2011 22:46	64.4	5/10/2011 11:56	64.4
30/9/2011 22:11	63.9	1/10/2011 15:21	64.3	2/10/2011 8:31	64.0	2/10/2011 17:41	64.8	3/10/2011 22:51	64.7	5/10/2011 12:01	63.5
30/9/2011 22:16	63.7	1/10/2011 15:26	64.0	2/10/2011 8:36	64.2	2/10/2011 17:46	64.8	3/10/2011 22:56	64.3	5/10/2011 12:06	64.2
30/9/2011 22:21	64.1	1/10/2011 15:31	64.2	2/10/2011 8:41	64.1	2/10/2011 17:51	65.0	4/10/2011 19:01	62.4	5/10/2011 12:11	64.1
30/9/2011 22:26	63.8	1/10/2011 15:36	64.0	2/10/2011 8:46	64.9	2/10/2011 17:56	64.8	4/10/2011 19:06	62.4	5/10/2011 12:16	65.3
30/9/2011 22:31	63.9	1/10/2011 15:41	64.3	2/10/2011 8:51	64.6	2/10/2011 18:01	64.8	4/10/2011 19:11	62.7	5/10/2011 12:21	64.3
30/9/2011 22:36	64.1	1/10/2011 15:46	64.1	2/10/2011 8:56	64.4	2/10/2011 18:06	64.7	4/10/2011 19:16	62.7	5/10/2011 12:26	64.0
30/9/2011 22:41	64.0	1/10/2011 15:51	64.3	2/10/2011 9:01	64.5	2/10/2011 18:11	64.7	4/10/2011 19:21	62.9	5/10/2011 12:31	64.7
30/9/2011 22:46	63.7	1/10/2011 15:56	64.3	2/10/2011 9:06	64.6	2/10/2011 18:16	64.8	4/10/2011 19:26	63.1	5/10/2011 12:36	65.0
30/9/2011 22:51	64.3	1/10/2011 16:01	64.4	2/10/2011 9:11	65.2	2/10/2011 18:21	64.7	4/10/2011 19:31	63.2	5/10/2011 12:41	64.8
30/9/2011 22:56	64.9	1/10/2011 16:06	64.3	2/10/2011 9:16	64.7	2/10/2011 18:26	64.5	4/10/2011 19:36	64.6	5/10/2011 12:46	64.9
1/10/2011 7:01	62.3	1/10/2011 16:11	64.6	2/10/2011 9:21	64.5	2/10/2011 18:31	64.7	4/10/2011 19:41	64.3	5/10/2011 12:51	65.0
1/10/2011 7:06	63.2	1/10/2011 16:16	64.3	2/10/2011 9:26	64.9	2/10/2011 18:36	64.5	4/10/2011 19:46	64.2	5/10/2011 12:56	64.5
1/10/2011 7:11	62.8	1/10/2011 16:21	64.5	2/10/2011 9:31	64.8	2/10/2011 18:41	64.2	4/10/2011 19:51	64.7	5/10/2011 13:01	64.3
1/10/2011 7:16	62.5	1/10/2011 16:26	64.4	2/10/2011 9:36	64.9	2/10/2011 18:46	64.2	4/10/2011 19:56	64.9	5/10/2011 13:06	65.1
1/10/2011 7:21	63.2	1/10/2011 16:31	64.3	2/10/2011 9:41	64.9	2/10/2011 18:51	64.2	4/10/2011 20:01	64.9	5/10/2011 13:11	65.2
1/10/2											

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

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5/10/2011 16:56	64.5	6/10/2011 22:01	63.9	9/10/2011 7:11	62.6	9/10/2011 16:21	64.5	10/10/2011 21:31	63.8	12/10/2011 22:41	64.6
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5/10/2011 18:01	64.9	7/10/2011 19:06	64.0	9/10/2011 8:16	64.0	9/10/2011 17:26	64.6	10/10/2011 22:36	63.5	13/10/2011 19:46	65.0
5/10/2011 18:06	64.5	7/10/2011 19:11	64.0	9/10/2011 8:21	63.7	9/10/2011 17:31	65.0	10/10/2011 22:41	63.3	13/10/2011 19:51	65.3
5/10/2011 18:11	64.4	7/10/2011 19:16	64.3	9/10/2011 8:26	65.1	9/10/2011 17:36	64.5	10/10/2011 22:46	63.7	13/10/2011 19:56	65.4
5/10/2011 18:16	64.7	7/10/2011 19:21	64.5	9/10/2011 8:31	65.0	9/10/2011 17:41	65.1	10/10/2011 22:51	63.6	13/10/2011 20:01	65.6
5/10/2011 18:21	65.1	7/10/2011 19:26	64.5	9/10/2011 8:36	64.4	9/10/2011 17:46	64.6	10/10/2011 22:56	63.2	13/10/2011 20:06	65.3
5/10/2011 18:26	64.2	7/10/2011 19:31	64.7	9/10/2011 8:41	65.0	9/10/2011 17:51	65.0	11/10/2011 19:01	64.2	13/10/2011 20:11	65.2
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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16/10/2011 8:51 66.0	16/10/2011 18:01 64.2	18/10/2011 19:11 63.9	20/10/2011 20:21 64.4	22/10/2011 21:31 63.6	23/10/2011 14:41 64.6
16/10/2011 8:56 65.6	16/10/2011 18:06 64.4	18/10/2011 19:16 64.5	20/10/2011 20:26 63.9	22/10/2011 21:36 64.5	23/10/2011 14:46 64.3
16/10/2011 9:01 65.0	16/10/2011 18:11 64.4	18/10/2011 19:21 64.6	20/10/2011 20:31 64.3	22/10/2011 21:41 64.3	23/10/2011 14:51 65.1
16/10/2011 9:06 64.8	16/10/2011 18:16 64.5	18/10/2011 19:26 64.1	20/10/2011 20:36 64.3	22/10/2011 21:46 63.9	23/10/2011 14:56 64.1
16/10/2011 9:11 64.7	16/10/2011 18:21 64.6	18/10/2011 19:31 64.9	20/10/2011 20:41 64.3	22/10/2011 21:51 63.4	23/10/2011 15:01 64.3
16/10/2011 9:16 64.2	16/10/2011 18:26 64.6	18/10/2011 19:36 65.3	20/10/2011 20:46 64.0	22/10/2011 21:56 63.3	23/10/2011 15:06 65.6
16/10/2011 9:21 65.5	16/10/2011 18:31 64.8	18/10/2011 19:41 65.4	20/10/2011 20:51 64.9	22/10/2011 22:01 64.1	23/10/2011 15:11 64.6
16/10/2011 9:26 64.0	16/10/2011 18:36 65.1	18/10/2011 19:46 65.7	20/10/2011 20:56 64.7	22/10/2011 22:06 63.3	23/10/2011 15:16 64.5
16/10/2011 9:31 64.5	16/10/2011 18:41 64.3	18/10/2011 19:51 65.2	20/10/2011 21:01 64.7	22/10/2011 22:11 64.0	23/10/2011 15:21 64.3
16/10/2011 9:36 64.3	16/10/2011 18:46 64.5	18/10/2011 19:56 65.3	20/10/2011 21:06 65.6	22/10/2011 22:16 64.4	23/10/2011 15:26 64.7
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16/10/2011 9:46 64.6	16/10/2011 18:56 64.8	18/10/2011 20:06 64.9	20/10/2011 21:16 64.5	22/10/2011 22:26 63.4	23/10/2011 15:36 64.8
16/10/2011 9:51 64.9	16/10/2011 19:01 64.5	18/10/2011 20:11 64.7	20/10/2011 21:21 65.3	22/10/2011 22:31 63.6	23/10/2011 15:41 66.4
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

23/10/2011 18:36 62.3	25/10/2011 19:46 64.9	27/10/2011 20:56 64.8	28/9/2011 6:56 64.4	30/9/2011 0:06 63.4	1/10/2011 1:16 62.1
23/10/2011 18:41 62.3	25/10/2011 19:51 64.6	27/10/2011 21:01 64.4	28/9/2011 23:01 63.9	30/9/2011 0:11 63.1	1/10/2011 1:21 62.1
23/10/2011 18:46 62.8	25/10/2011 19:56 64.9	27/10/2011 21:06 64.6	28/9/2011 23:06 63.7	30/9/2011 0:16 62.9	1/10/2011 1:26 62.0
23/10/2011 18:51 63.2	25/10/2011 20:01 64.0	27/10/2011 21:11 64.4	28/9/2011 23:11 64.2	30/9/2011 0:21 62.8	1/10/2011 1:31 61.7
23/10/2011 18:56 62.7	25/10/2011 20:06 65.1	27/10/2011 21:16 64.5	28/9/2011 23:16 63.9	30/9/2011 0:26 62.9	1/10/2011 1:36 62.0
23/10/2011 19:01 62.9	25/10/2011 20:11 64.1	27/10/2011 21:21 65.0	28/9/2011 23:21 63.7	30/9/2011 0:31 62.7	1/10/2011 1:41 62.1
23/10/2011 19:06 64.5	25/10/2011 20:16 64.8	27/10/2011 21:26 64.7	28/9/2011 23:26 63.7	30/9/2011 0:36 62.9	1/10/2011 1:46 61.3
23/10/2011 19:11 63.2	25/10/2011 20:21 64.7	27/10/2011 21:31 65.0	28/9/2011 23:31 63.8	30/9/2011 0:41 62.3	1/10/2011 1:51 61.4
23/10/2011 19:16 63.4	25/10/2011 20:26 64.4	27/10/2011 21:36 64.0	28/9/2011 23:36 63.5	30/9/2011 0:46 62.2	1/10/2011 1:56 61.6
23/10/2011 19:21 63.4	25/10/2011 20:31 64.3	27/10/2011 21:41 64.4	28/9/2011 23:41 63.7	30/9/2011 0:51 61.7	1/10/2011 2:01 61.2
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23/10/2011 19:31 64.5	25/10/2011 20:41 64.6	27/10/2011 21:51 64.2	28/9/2011 23:51 63.6	30/9/2011 1:01 61.4	1/10/2011 2:11 61.1
23/10/2011 19:36 63.6	25/10/2011 20:46 65.0	27/10/2011 21:56 64.5	28/9/2011 23:56 63.3	30/9/2011 1:06 61.6	1/10/2011 2:16 61.2
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23/10/2011 19:46 64.4	25/10/2011 20:56 65.0	27/10/2011 22:06 64.2	29/9/2011 0:06 62.9	30/9/2011 1:16 61.8	1/10/2011 2:26 60.6
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23/10/2011 20:01 63.9	25/10/2011 21:11 64.9	27/10/2011 22:21 64.0	29/9/2011 0:21 62.7	30/9/2011 1:31 61.4	1/10/2011 2:41 60.9
23/10/2011 20:06 64.5	25/10/2011 21:16 64.2	27/10/2011 22:26 64.6	29/9/2011 0:26 62.7	30/9/2011 1:36 61.1	1/10/2011 2:46 61.1
23/10/2011 20:11 63.7	25/10/2011 21:21 64.3	27/10/2011 22:31 64.2	29/9/2011 0:31 62.5	30/9/2011 1:41 61.5	1/10/2011 2:51 61.2
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23/10/2011 22:16 63.3	26/10/2011 19:26 63.8	28/9/2011 1:26 62.5	29/9/2011 2:36 59.8	30/9/2011 3:46 59.9	1/10/2011 4:56 60.3
23/10/2011 22:21 64.1	26/10/2011 19:31 64.6	28/9/2011 1:31 62.4	29/9/2011 2:41 59.7	30/9/2011 3:51 59.4	1/10/2011 5:01 60.6
23/10/2011 22:26 62.9	26/10/2011 19:36 64.5	28/9/2011 1:36 61.9	29/9/2011 2:46 60.5	30/9/2011 3:56 59.9	1/10/2011 5:06 60.2
23/10/2011 22:31 63.4	26/10/2011 19:41 64.3	28/9/2011 1:41 62.5	29/9/2011 2:51 59.5	30/9/2011 4:01 59.5	1/10/2011 5:11 60.4
23/10/2011 22:36 62.8	26/10/2011 19:46 64.3	28/9/2011 1:46 62.4	29/9/2011 2:56 59.2	30/9/2011 4:06 59.2	1/10/2011 5:16 60.7
23/10/2011 22:41 63.5	26/10/2011 19:51 64.4	28/9/2011 1:51 62.5	29/9/2011 3:01 59.2	30/9/2011 4:11 59.2	1/10/2011 5:21 60.2
23/10/2011 22:46 63.6	26/10/2011 19:56 64.7	28/9/2011 1:56 62.0	29/9/2011 3:06 59.4	30/9/2011 4:16 59.4	1/10/2011 5:26 60.8
23/10/2011 22:51 63.0	26/10/2011 20:01 64.8	28/9/2011 2:01 61.9	29/9/2011 3:11 59.2	30/9/2011 4:21 59.4	1/10/2011 5:31 60.5
23/10/2011 22:56 65.1	26/10/2011 20:06 64.7	28/9/2011 2:06 60.1	29/9/2011 3:16 59.2	30/9/2011 4:26 59.4	1/10/2011 5:36 60.6
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24/10/2011 19:11 63.5	26/10/2011 20:21 64.8	28/9/2011 2:21 59.7	29/9/2011 3:31 59.1	30/9/2011 4:41 59.4	1/10/2011 5:51 61.2
24/10/2011 19:16 63.4	26/10/2011 20:26 64.2	28/9/2011 2:26 59.8	29/9/2011 3:36 59.2	30/9/2011 4:46 59.5	1/10/2011 5:56 61.1
24/10/2011 19:21 65.5	26/10/2011 20:31 64.3	28/9/2011 2:31 60.4	29/9/2011 3:41 59.5	30/9/2011 4:51 59.3	1/10/2011 6:01 61.2
24/10/2011 19:26 63.2	26/10/2011 20:36 64.4	28/9/2011 2:36 60.1	29/9/2011 3:46 59.4	30/9/2011 4:56 59.5	1/10/2011 6:06 62.2
24/10/2011 19:31 63.7	26/10/2011 20:41 64.7	28/9/2011 2:41 60.0	29/9/2011 3:51 59.2	30/9/2011 5:01 60.0	1/10/2011 6:11 62.0
24/10/2011 19:36 63.5	26/10/2011 20:46 64.3	28/9/2011 2:46 60.5	29/9/2011 3:56 60.3	30/9/2011 5:06 59.3	1/10/2011 6:16 61.8
24/10/2011 19:41 63.5	26/10/2011 20:51 64.5	28/9/2011 2:51 60.1	29/9/2011 4:01 59.3	30/9/2011 5:11 59.4	1/10/2011 6:21 61.8
24/10/2011 19:46 63.2	26/10/2011 20:56 64.6	28/9/2011 2:56 59.8	29/9/2011 4:06 59.5	30/9/2011 5:16 60.0	1/10/2011 6:26 62.7
24/10/2011 19:51 63.9	26/10/2011 21:01 64.4	28/9/2011 3:01 59.2	29/9/2011 4:11 59.5	30/9/2011 5:21 59.8	1/10/2011 6:31 62.0
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24/10/2011 20:01 65.2	26/10/2011 21:11 64.3	28/9/2011 3:11 59.2	29/9/2011 4:21 59.6	30/9/2011 5:31 60.1	1/10/2011 6:41 63.0
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24/10/2011 20:11 65.1	26/10/2011 21:21 64.7	28/9/2011 3:21 61.1	29/9/2011 4:31 59.2	30/9/2011 5:41 60.9	1/10/2011 6:51 62.7
24/10/2011 20:16 64.4	26/10/2011 21:26 64.7	28/9/2011 3:26 58.9	29/9/2011 4:36 59.3	30/9/2011 5:46 61.0	1/10/2011 6:56 62.3
24/10/2011 20:21 65.6	26/10/2011 21:31 64.5	28/9/2011 3:31 59.3	29/9/2011 4:41 59.4	30/9/2011 5:51 61.3	1/10/2011 23:01 64.7
24/10/2011 20:26 64.7	26/10/2011 21:36 64.8	28/9/2011 3:36 59.4	29/9/2011 4:46 59.3	30/9/2011 5:56 60.8	1/10/2011 23:06 64.8
24/10/2011 20:31 64.8	26/10/2011 21:41 64.4	28/9/2011 3:41 59.8	29/9/2011 4:51 59.3	30/9/2011 6:01 61.4	1/10/2011 23:11 64.9
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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2/10/2011 2:56	61.2	3/10/2011 4:06	59.3	4/10/2011 5:16	60.3	5/10/2011 6:26	62.5	6/10/2011 23:36	62.9	8/10/2011 0:46	62.5
2/10/2011 3:01	61.0	3/10/2011 4:11	59.3	4/10/2011 5:21	59.8	5/10/2011 6:31	61.5	6/10/2011 23:41	63.1	8/10/2011 0:51	62.0
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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9/10/2011 5:06	61.2	10/10/2011 6:16	62.1	11/10/2011 23:26	62.7	13/10/2011 0:36	62.3	14/10/2011 1:46	60.4	15/10/2011 2:56	61.6
9/10/2011 5:11	60.5	10/10/2011 6:21	63.0	11/10/2011 23:31	62.9	13/10/2011 0:41	62.1	14/10/2011 1:51	60.2	15/10/2011 3:01	61.1
9/10/2011 5:16	60.6	10/10/2011 6:26	63.2	11/10/2011 23:36	63.2	13/10/2011 0:46	62.0	14/10/2011 1:56	60.8	15/10/2011 3:06	60.6
9/10/2011 5:21	60.5	10/10/2011 6:31	63.7	11/10/2011 23:41	62.4	13/10/2011 0:51	62.3	14/10/2011 2:01	59.7	15/10/2011 3:11	61.0
9/10/2011 5:26	60.4	10/10/2011 6:36	63.9	11/10/2011 23:46	62.8	13/10/2011 0:56	61.2	14/10/2011 2:06	60.0	15/10/2011 3:16	60.8
9/10/2011 5:31	59.5	10/10/2011 6:41	64.2	11/10/2011 23:51	63.0	13/10/2011 1:01	61.2	14/10/2011 2:11	60.0	15/10/2011 3:21	60.8
9/10/2011 5:36	60.7	10/10/2011 6:46	64.2	11/10/2011 23:56	62.3	13/10/2011 1:06	62.5	14/10/2011 2:16	60.3	15/10/2011 3:26	60.1
9/10/2011 5:41	60.7	10/10/2011 6:51	63.2	12/10/2011 0:01	62.8	13/10/2011 1:11	61.7	14/10/2011 2:21	59.4	15/10/2011 3:31	61.1
9/10/2011 5:46	61.3	10/10/2011 6:56	65.1	12/10/2011 0:06	62.6	13/10/2011 1:16	61.6	14/10/2011 2:26	59.9	15/10/2011 3:36	61.1
9/10/2011 5:51	61.3	10/10/2011 23:01	63.1	12/10/2011 0:11	62.8	13/10/2011 1:21	61.2	14/10/2011 2:31	59.6	15/10/2011 3:41	60.9
9/10/2011 5:56	61.4	10/10/2011 23:06	62.7	12/10/2011 0:16	62.5	13/10/2011 1:26	61.4	14/10/2011 2:36	59.6	15/10/2011 3:46	60.6
9/10/2011 6:01	60.3	10/10/2011 23:11	63.9	12/10/2011 0:21	61.8	13/10/2011 1:31	60.0	14/10/2011 2:41	59.6	15/10/2011 3:51	60.9
9/10/2011 6:06	61.4	10/10/2011 23:16	63.1	12/10/2011 0:26	61.7	13/10/2011 1:36	60.4	14/10/2011 2:46	59.1	15/10/2011 3:56	60.6
9/10/2011 6:11	61.6	10/10/2011 23:21	62.7	12/10/2011 0:31	62.8	13/10/2011 1:41	59.8	14/10/2011 2:51	59.3	15/10/2011 4:01	59.7
9/10/2011 6:16	61.4	10/10/2011 23:26	62.7	12/10/2011 0:36	62.4	13/10/2011 1:46	60.8	14/10/2011 2:56	58.6	15/10/2011 4:06	59.9
9/10/2011 6:21	61.7	10/10/2011 23:31	62.7	12/10/2011 0:41	63.5	13/10/2011 1:51	60.2	14/10/2011 3:01	58.7	15/10/2011 4:11	61.0
9/10/2011 6:26	62.1	10/10/2011 23:36	62.7	12/10/2011 0:46	61.8	13/10/2011 1:56	60.4	14/10/2011 3:06	58.8	15/10/2011 4:16	60.4
9/10/2011 6:31	62.4	10/10/2011 23:41	62.3	12/10/2011 0:51	61.1	13/10/2011 2:01	59.5	14/10/2011 3:11	59.6	15/10/2011 4:21	60.2
9/10/2011 6:36	62.8	10/10/2011 23:46	62.5	12/10/2011 0:56	60.9	13/10/2011 2:06	59.5	14/10/2011 3:16	59.3	15/10/2011 4:26	60.2
9/10/2011 6:41	62.4	10/10/2011 23:51	63.4	12/10/2011 1:01	60.2	13/10/2011 2:11	59.3	14/10/2011 3:21	58.8	15/10/2011 4:31	60.0
9/10/2011 6:46	63.6	10/10/2011 23:56	62.5	12/10/2011 1:06	60.2	13/10/2011 2:16	59.1	14/10/2011 3:26	58.1	15/10/2011 4:36	59.9
9/10/2011 6:51	63.1	11/10/2011 0:01	62.3	12/10/2011 1:11	61.2	13/10/2011 2:21	59.4	14/10/2011 3:31	58.8	15/10/2011 4:41	60.2
9/10/2011 6:56	63.0	11/10/2011 0:06	62.2	12/10/2011 1:16	60.2	13/10/2011 2:26	60.0	14/10/2011 3:36	58.9	15/10/2011 4:46	60.3
9/10/2011 23:01	62.6	11/10/2011 0:11	62.0	12/10/2011 1:21	60.7	13/10/2011 2:31	59.5	14/10/2011 3:41	59.0	15/10/2011 4:51	60.8
9/10/2011 23:06	62.6	11/10/2011 0:16	62.2	12/10/2011 1:26	60.1	13/10/2011 2:36	59.9	14/10/2011 3			

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

16/10/2011 0:26	63.5	17/10/2011 1:36	59.5	18/10/2011 2:46	58.7	19/10/2011 3:56	59.2	20/10/2011 5:06	59.4	21/10/2011 6:16	62.6
16/10/2011 0:31	63.4	17/10/2011 1:41	59.1	18/10/2011 2:51	59.8	19/10/2011 4:01	59.0	20/10/2011 5:11	60.0	21/10/2011 6:21	63.3
16/10/2011 0:36	63.6	17/10/2011 1:46	58.6	18/10/2011 2:56	59.5	19/10/2011 4:06	59.7	20/10/2011 5:16	60.1	21/10/2011 6:26	63.6
16/10/2011 0:41	62.5	17/10/2011 1:51	59.9	18/10/2011 3:01	60.0	19/10/2011 4:11	58.0	20/10/2011 5:21	59.9	21/10/2011 6:31	63.9
16/10/2011 0:46	62.0	17/10/2011 1:56	58.7	18/10/2011 3:06	59.2	19/10/2011 4:16	57.8	20/10/2011 5:26	60.0	21/10/2011 6:36	64.2
16/10/2011 0:51	62.8	17/10/2011 2:01	59.1	18/10/2011 3:11	59.4	19/10/2011 4:21	57.5	20/10/2011 5:31	60.5	21/10/2011 6:41	64.0
16/10/2011 0:56	62.4	17/10/2011 2:06	59.4	18/10/2011 3:16	58.2	19/10/2011 4:26	58.5	20/10/2011 5:36	60.0	21/10/2011 6:46	64.3
16/10/2011 1:01	62.3	17/10/2011 2:11	58.8	18/10/2011 3:21	58.4	19/10/2011 4:31	58.9	20/10/2011 5:41	60.7	21/10/2011 6:51	64.6
16/10/2011 1:06	61.8	17/10/2011 2:16	58.5	18/10/2011 3:26	60.0	19/10/2011 4:36	58.8	20/10/2011 5:46	61.3	21/10/2011 6:56	65.2
16/10/2011 1:11	61.3	17/10/2011 2:21	58.0	18/10/2011 3:31	59.3	19/10/2011 4:41	58.8	20/10/2011 5:51	60.9	21/10/2011 23:01	63.9
16/10/2011 1:16	62.2	17/10/2011 2:26	58.2	18/10/2011 3:36	60.4	19/10/2011 4:46	58.2	20/10/2011 5:56	60.7	21/10/2011 23:06	63.6
16/10/2011 1:21	61.6	17/10/2011 2:31	59.1	18/10/2011 3:41	59.3	19/10/2011 4:51	57.7	20/10/2011 6:01	61.0	21/10/2011 23:11	63.6
16/10/2011 1:26	62.2	17/10/2011 2:36	58.9	18/10/2011 3:46	60.1	19/10/2011 4:56	59.1	20/10/2011 6:06	62.5	21/10/2011 23:16	63.4
16/10/2011 1:31	61.7	17/10/2011 2:41	58.0	18/10/2011 3:51	59.3	19/10/2011 5:01	58.2	20/10/2011 6:11	62.5	21/10/2011 23:21	64.1
16/10/2011 1:36	61.5	17/10/2011 2:46	58.6	18/10/2011 3:56	59.2	19/10/2011 5:06	59.4	20/10/2011 6:16	62.6	21/10/2011 23:26	63.6
16/10/2011 1:41	60.9	17/10/2011 2:51	58.0	18/10/2011 4:01	58.5	19/10/2011 5:11	59.1	20/10/2011 6:21	63.9	21/10/2011 23:31	63.4
16/10/2011 1:46	61.7	17/10/2011 2:56	59.5	18/10/2011 4:06	59.3	19/10/2011 5:16	58.6	20/10/2011 6:26	63.4	21/10/2011 23:36	63.5
16/10/2011 1:51	60.7	17/10/2011 3:01	59.5	18/10/2011 4:11	58.8	19/10/2011 5:21	59.0	20/10/2011 6:31	63.8	21/10/2011 23:41	63.8
16/10/2011 1:56	60.7	17/10/2011 3:06	57.3	18/10/2011 4:16	63.4	19/10/2011 5:26	59.0	20/10/2011 6:36	64.3	21/10/2011 23:46	63.6
16/10/2011 2:01	61.0	17/10/2011 3:11	58.3	18/10/2011 4:21	58.6	19/10/2011 5:31	59.2	20/10/2011 6:41	63.7	21/10/2011 23:51	62.8
16/10/2011 2:06	62.2	17/10/2011 3:16	58.5	18/10/2011 4:26	61.5	19/10/2011 5:36	60.0	20/10/2011 6:46	64.0	21/10/2011 23:56	63.2
16/10/2011 2:11	61.2	17/10/2011 3:21	58.8	18/10/2011 4:31	60.6	19/10/2011 5:41	59.7	20/10/2011 6:51	64.4	22/10/2011 0:01	62.8
16/10/2011 2:16	60.7	17/10/2011 3:26	58.6	18/10/2011 4:36	58.2	19/10/2011 5:46	60.4	20/10/2011 6:56	65.4	22/10/2011 0:06	63.3
16/10/2011 2:21	61.0	17/10/2011 3:31	58.6	18/10/2011 4:41	58.3	19/10/2011 5:51	60.8	20/10/2011 23:01	63.7	22/10/2011 0:11	63.0
16/10/2011 2:26	60.4	17/10/2011 3:36	58.0	18/10/2011 4:46	59.6	19/10/2011 5:56	60.2	20/10/2011 23:06	63.5	22/10/2011 0:16	62.7
16/10/2011 2:31	61.0	17/10/2011 3:41	58.1	18/10/2011 4:51	59.0	19/10/2011 6:01	60.5	20/10/2011 23:11	63.8	22/10/2011 0:21	63.4
16/10/2011 2:36	60.8	17/10/2011 3:46	58.7	18/10/2011 4:56	59.4	19/10/2011 6:06	61.3	20/10/2011 23:16	63.5	22/10/2011 0:26	62.9
16/10/2011 2:41	60.4	17/10/2011 3:51	59.5	18/10/2011 5:01	60.0	19/10/2011 6:11	62.0	20/10/2011 23:21	63.7	22/10/2011 0:31	62.9
16/10/2011 2:46	60.7	17/10/2011 3:56	58.4	18/10/2011 5:06	59.4	19/10/2011 6:16	62.7	20/10/2011 23:26	63.5	22/10/2011 0:36	62.6
16/10/2011 2:51	60.7	17/10/2011 4:01	57.9	18/10/2011 5:11	58.6	19/10/2011 6:21	62.7	20/10/2011 23:31	63.5	22/10/2011 0:41	62.5
16/10/2011 2:56	60.8	17/10/2011 4:06	58.2	18/10/2011 5:16	61.6	19/10/2011 6:26	63.1	20/10/2011 23:36	63.8	22/10/2011 0:46	63.3
16/10/2011 3:01	60.5	17/10/2011 4:11	58.1	18/10/2011 5:21	60.2	19/10/2011 6:31	63.7	20/10/2011 23:41	63.8	22/10/2011 0:51	61.9
16/10/2011 3:06	60.5	17/10/2011 4:16	58.5	18/10/2011 5:26	60.4	19/10/2011 6:36	63.5	20/10/2011 23:46	63.1	22/10/2011 0:56	62.7
16/10/2011 3:11	60.3	17/10/2011 4:21	60.0	18/10/2011 5:31	59.4	19/10/2011 6:41	63.7	20/10/2011 23:51	63.5	22/10/2011 1:01	62.0
16/10/2011 3:16	60.2	17/10/2011 4:26	58.1	18/10/2011 5:36	60.2	19/10/2011 6:46	64.2	20/10/2011 23:56	63.0	22/10/2011 1:06	62.0
16/10/2011 3:21	59.8	17/10/2011 4:31	58.3	18/10/2011 5:41	61.0	19/10/2011 6:51	63.9	21/10/2011 0:01	63.9	22/10/2011 1:11	62.0
16/10/2011 3:26	60.0	17/10/2011 4:36	57.7	18/10/2011 5:46	60.8	19/10/2011 6:56	65.0	21/10/2011 0:06	62.7	22/10/2011 1:16	62.0
16/10/2011 3:31	59.9	17/10/2011 4:41	58.4	18/10/2011 5:51	61.1	19/10/2011 23:01	63.3	21/10/2011 0:11	62.9	22/10/2011 1:21	61.8
16/10/2011 3:36	60.6	17/10/2011 4:46	58.6	18/10/2011 5:56	60.5	19/10/2011 23:06	63.0	21/10/2011 0:16	62.3	22/10/2011 1:26	61.7
16/10/2011 3:41	59.8	17/10/2011 4:51	58.3	18/10/2011 6:01	61.5	19/10/2011 23:11	64.0	21/10/2011 0:21	62.8	22/10/2011 1:31	61.4
16/10/2011 3:46	60.4	17/10/2011 4:56	58.8	18/10/2011 6:06	63.2	19/10/2011 23:16	63.3	21/10/2011 0:26	62.5	22/10/2011 1:36	61.2
16/10/2011 3:51	60.6	17/10/2011 5:01	58.7	18/10/2011 6:11	62.0	19/10/2011 23:21	63.2	21/10/2011 0:31	62.2	22/10/2011 1:41	61.7
16/10/2011 3:56	62.0	17/10/2011 5:06	59.0	18/10/2011 6:16	62.6	19/10/2011 23:26	63.2	21/10/2011 0:36	62.2	22/10/2011 1:46	61.7
16/10/2011 4:01	60.7	17/10/2011 5:11	60.4	18/10/2011 6:21	63.4	19/10/2011 23:31	62.4	21/10/2011 0:41	62.0	22/10/2011 1:51	61.0
16/10/2011 4:06	60.8	17/10/2011 5:16	59.9	18/10/2011 6:26	64.4	19/10/2011 23:36	62.9	21/10/2011 0:46	62.0	22/10/2011 1:56	61.5
16/10/2011 4:11	61.5	17/10/2011 5:21	58.6	18/10/2011 6:31	64.5	19/10/2011 23:41	62.1	21/10/2011 0:51	61.4	22/10/2011 2:01	61.7
16/10/2011 4:16	60.5	17/10/2011 5:26	60.2	18/10/2011 6:36	64.8	19/10/2011 23:46	63.0	21/10/2011 0:56	61.6	22/10/2011 2:06	61.1
16/10/2011 4:21	60.4	17/10/2011 5:31	59.6	18/10/2011 6:41	64.4	19/10/2011 23:51	63.2	21/10/2011 1:01	61.3	22/10/2011 2:11	60.9
16/10/2011 4:26	60.5	17/10/2011 5:36	60.7	18/10/2011 6:46	64.4	19/10/2011 23:56	63.0	21/10/2011 1:06	61.0	22/10/2011 2:16	60.7
16/10/2011 4:31	60.4	17/10/2011 5:41	60.3	18/10/2011 6:51	64.5	20/10/2011 0:01	62.8	21/10/2011 1:11	61.0	22/10/2011 2:21	61.0
16/10/2011 4:36	60.4	17/10/2011 5:46	61.2	18/10/2011 6:56	65.1	20/10/2011 0:06	62.4	21/10/2011 1:16	61.5	22/10/2011 2:26	62.3
16/10/2011 4:41	60.7	17/10/2011 5:51	61.0	18/10/2011 23:01	63.2	20/10/2011 0:11	63.0	21/10/2011 1:21	60.2	22/10/2011 2:31	60.6
16/10/2011 4:46	59.8	17/10/2011 5:56	61.6	18/10/2011 23:06	62.5	20/10/2011 0:16	62.6	21/10/2011 1:26	61.5	22/10/2011 2:36	60.4
16/10/2011 4:51	60.2	17/10/2011 6:01	61.1	18/10/2011 23:11	63.1	20/10/2011 0:21	62.3	21/10/2011 1:31	59.4	22/10/2011 2:41	60.8
16/10/2011 4:56	61.2	17/10/2011 6:06	62.3	18/10/2011 23:16	63.4	20/10/2011 0:26	62.3	21/10/2011 1:36	60.2	22/10/2011 2:46	60.5
16/10/2011 5:01	60.8	17/10/2011 6:11	62.7	18/10/2011 23:21	62.7	20/10/2011 0:31	62.5	21/10/2011 1:41	61.0	22/10/2011 2:51	59.9
16/10/2011 5:06	60.7	17/10/2011 6:16	62.5	18/10/2011 23:26	62.4	20/10/2011 0:36	62.2	21/10/2011 1:46	60.2	22/10/2011 2:56	59.2
16/10/2011 5:11	60.1	17/10/2011 6:21	63.0	18/10/2011 23:31	62.8	20/10/2011 0:41	62.2	21/10/2011 1:51	60.3	22/10/2011 3:01	59.7
16/10/2011 5:16	61.3	17/10/2011 6:26	63.6	18/10/2011 23:36	62.8	20/10/2011 0:46	61.6	21/10/2011 1:56	60.1	22/10/2011 3:06	60.2
16/10/2011 5:21	61.0	17/10/2011 6:31	63.6	18/10/2011 23:41	62.7	20/10/2011 0:51	61.0	21/10/2011 2:01	58.9	22/10/2011 3:11	60.3
16/10/2011 5:26	60.2	17/10/2011 6:36	64.1	18/10/2011 23:46	62.9	20/10/2011 0:56	61.4	21/10/2011 2:06	59.6	22/10/2011 3:16	60.3
16/10/2011 5:31	60.3	17/10/2011 6:41	64.3	18/10/2011 23:51	62.8	20/10/2011 1:01	61.8	21/10/2011 2:11	59.3	22/10/2011 3:21	59.8
16/10/2011 5:36	60.0	17/10/2011 6:46	64.5	18/10/2011 23:56	62.3	20/10/2011 1:06	60.8	21/10/2011 2:16	59.4	22/10/2011 3:26	60.0
16/10/2011 5:41	60.9	17/10/2011 6:51	65.5	19/10/2011 0:01	62.1	20/10/2011 1:11	61.5	21/10/2011 2:21	58.7	22/10/2011 3:31	60.2
16/10/2011 5:46	61.1	17/10/2011 6:56	65.3	19/10/2011 0:06	62.2	20/10/2011 1:16	60.5	21/10/2011 2:26	59.2	22/10/2011 3:36	60.8
16/10/2011 5:51	61.1	17/10/2011 23:01	63.7	19/10/2011 0:11	62.3	20/10/2011 1:21	60.7	21/10/2011 2:31	59.3	22/10/2011 3:41	61.0
16/10/2011 5:56	60.9	17/10/2011 23:06	63.6	19/10/2011 0:16	62.3	20/10/2011 1:26	61.2	21/10/2011 2:36	59.2	22/10/2011 3:46	59.9
16/10/2011 6:01	61.5	17/10/2011 23:11	63.2	19/10/2011 0:21	62.5	20/10/2011 1:31	60.2	21/10/2011 2:41	58.8	22/10/2011 3:51	60.7
16/10/2011 6:06	61.7	17/10/2011 23:16	63.0	19/10/2							

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

22/10/2011 23:26	63.3	24/10/2011 0:36	61.6	25/10/2011 1:46	59.2	26/10/2011 2:56	59.0	27/10/2011 4:06	59.3
22/10/2011 23:31	63.1	24/10/2011 0:41	60.9	25/10/2011 1:51	59.8	26/10/2011 3:01	58.5	27/10/2011 4:11	58.8
22/10/2011 23:36	63.0	24/10/2011 0:46	61.3	25/10/2011 1:56	59.5	26/10/2011 3:06	58.5	27/10/2011 4:16	58.8
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22/10/2011 23:46	62.6	24/10/2011 0:56	61.8	25/10/2011 2:06	58.9	26/10/2011 3:16	59.0	27/10/2011 4:26	58.7
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22/10/2011 23:56	62.9	24/10/2011 1:06	60.0	25/10/2011 2:16	59.0	26/10/2011 3:26	58.9	27/10/2011 4:36	59.2
23/10/2011 0:01	63.2	24/10/2011 1:11	60.4	25/10/2011 2:21	59.4	26/10/2011 3:31	59.0	27/10/2011 4:41	58.4
23/10/2011 0:06	63.1	24/10/2011 1:16	60.0	25/10/2011 2:26	59.2	26/10/2011 3:36	58.9	27/10/2011 4:46	58.8
23/10/2011 0:11	63.1	24/10/2011 1:21	60.2	25/10/2011 2:31	59.5	26/10/2011 3:41	59.1	27/10/2011 4:51	58.8
23/10/2011 0:16	63.5	24/10/2011 1:26	59.5	25/10/2011 2:36	58.4	26/10/2011 3:46	59.2	27/10/2011 4:56	58.9
23/10/2011 0:21	63.1	24/10/2011 1:31	59.8	25/10/2011 2:41	58.7	26/10/2011 3:51	58.3	27/10/2011 5:01	59.4
23/10/2011 0:26	62.9	24/10/2011 1:36	59.7	25/10/2011 2:46	59.0	26/10/2011 3:56	58.4	27/10/2011 5:06	59.3
23/10/2011 0:31	62.7	24/10/2011 1:41	59.7	25/10/2011 2:51	59.4	26/10/2011 4:01	58.0	27/10/2011 5:11	59.2
23/10/2011 0:36	62.3	24/10/2011 1:46	59.3	25/10/2011 2:56	58.2	26/10/2011 4:06	59.2	27/10/2011 5:16	59.6
23/10/2011 0:41	61.8	24/10/2011 1:51	59.6	25/10/2011 3:01	58.5	26/10/2011 4:11	58.7	27/10/2011 5:21	59.4
23/10/2011 0:46	61.7	24/10/2011 1:56	59.4	25/10/2011 3:06	58.9	26/10/2011 4:16	59.5	27/10/2011 5:26	59.8
23/10/2011 0:51	61.6	24/10/2011 2:01	58.5	25/10/2011 3:11	58.8	26/10/2011 4:21	58.3	27/10/2011 5:31	59.8
23/10/2011 0:56	62.3	24/10/2011 2:06	59.4	25/10/2011 3:16	57.7	26/10/2011 4:26	58.0	27/10/2011 5:36	60.1
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23/10/2011 1:06	62.5	24/10/2011 2:16	58.0	25/10/2011 3:26	58.0	26/10/2011 4:36	58.6	27/10/2011 5:46	61.1
23/10/2011 1:11	61.2	24/10/2011 2:21	60.4	25/10/2011 3:31	57.9	26/10/2011 4:41	58.4	27/10/2011 5:51	60.6
23/10/2011 1:16	61.2	24/10/2011 2:26	58.1	25/10/2011 3:36	58.8	26/10/2011 4:46	58.9	27/10/2011 5:56	61.1
23/10/2011 1:21	62.4	24/10/2011 2:31	58.8	25/10/2011 3:41	59.0	26/10/2011 4:51	58.2	27/10/2011 6:01	61.2
23/10/2011 1:26	61.1	24/10/2011 2:36	58.8	25/10/2011 3:46	57.9	26/10/2011 4:56	58.3	27/10/2011 6:06	62.1
23/10/2011 1:31	60.7	24/10/2011 2:41	58.1	25/10/2011 3:51	58.7	26/10/2011 5:01	59.7	27/10/2011 6:11	62.5
23/10/2011 1:36	61.0	24/10/2011 2:46	58.1	25/10/2011 3:56	59.5	26/10/2011 5:06	59.4	27/10/2011 6:16	62.3
23/10/2011 1:41	60.6	24/10/2011 2:51	58.5	25/10/2011 4:01	58.2	26/10/2011 5:11	59.2	27/10/2011 6:21	62.9
23/10/2011 1:46	61.3	24/10/2011 2:56	57.0	25/10/2011 4:06	59.8	26/10/2011 5:16	59.7	27/10/2011 6:26	63.3
23/10/2011 1:51	60.8	24/10/2011 3:01	58.5	25/10/2011 4:11	58.1	26/10/2011 5:21	58.8	27/10/2011 6:31	63.4
23/10/2011 1:56	60.5	24/10/2011 3:06	58.4	25/10/2011 4:16	57.5	26/10/2011 5:26	60.1	27/10/2011 6:36	63.6
23/10/2011 2:01	60.6	24/10/2011 3:11	58.2	25/10/2011 4:21	58.7	26/10/2011 5:31	59.8	27/10/2011 6:41	64.2
23/10/2011 2:06	60.1	24/10/2011 3:16	59.0	25/10/2011 4:26	58.3	26/10/2011 5:36	60.3	27/10/2011 6:46	64.0
23/10/2011 2:11	60.4	24/10/2011 3:21	58.6	25/10/2011 4:31	58.9	26/10/2011 5:41	60.4	27/10/2011 6:51	64.3
23/10/2011 2:16	60.4	24/10/2011 3:26	57.4	25/10/2011 4:36	60.1	26/10/2011 5:46	60.7	27/10/2011 6:56	64.7
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23/10/2011 2:26	60.2	24/10/2011 3:36	58.7	25/10/2011 4:46	58.8	26/10/2011 5:56	60.7	27/10/2011 23:06	63.6
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23/10/2011 2:36	60.3	24/10/2011 3:46	58.3	25/10/2011 4:56	58.5	26/10/2011 6:06	62.2	27/10/2011 23:16	63.7
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23/10/2011 2:46	60.3	24/10/2011 3:56	57.6	25/10/2011 5:06	58.8	26/10/2011 6:16	62.7	27/10/2011 23:26	63.6
23/10/2011 2:51	60.4	24/10/2011 4:01	59.0	25/10/2011 5:11	58.6	26/10/2011 6:21	62.9	27/10/2011 23:31	63.5
23/10/2011 2:56	60.8	24/10/2011 4:06	57.9	25/10/2011 5:16	58.4	26/10/2011 6:26	63.5	27/10/2011 23:36	63.8
23/10/2011 3:01	60.0	24/10/2011 4:11	58.3	25/10/2011 5:21	59.3	26/10/2011 6:31	63.8	27/10/2011 23:41	64.1
23/10/2011 3:06	60.0	24/10/2011 4:16	57.8	25/10/2011 5:26	59.9	26/10/2011 6:36	63.5	27/10/2011 23:46	64.0
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23/10/2011 3:16	60.6	24/10/2011 4:26	58.6	25/10/2011 5:36	60.1	26/10/2011 6:46	64.2	27/10/2011 23:56	63.0
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23/10/2011 3:26	61.2	24/10/2011 4:36	58.2	25/10/2011 5:46	61.0	26/10/2011 6:56	65.2		
23/10/2011 3:31	60.0	24/10/2011 4:41	58.1	25/10/2011 5:51	60.3	26/10/2011 23:01	63.4		
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23/10/2011 3:41	60.4	24/10/2011 4:51	58.3	25/10/2011 6:01	61.2	26/10/2011 23:11	63.8		
23/10/2011 3:46	59.9	24/10/2011 4:56	59.1	25/10/2011 6:06	61.6	26/10/2011 23:16	63.6		
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23/10/2011 3:56	59.8	24/10/2011 5:06	59.1	25/10/2011 6:16	62.8	26/10/2011 23:26	63.1		
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23/10/2011 4:06	60.2	24/10/2011 5:16	59.7	25/10/2011 6:26	63.7	26/10/2011 23:36	63.3		
23/10/2011 4:11	59.5	24/10/2011 5:21	59.0	25/10/2011 6:31	63.0	26/10/2011 23:41	63.5		
23/10/2011 4:16	59.1	24/10/2011 5:26	58.9	25/10/2011 6:36	64.2	26/10/2011 23:46	62.7		
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23/10/2011 4:26	59.9	24/10/2011 5:36	59.7	25/10/2011 6:46	64.3	26/10/2011 23:56	62.8		
23/10/2011 4:31	60.3	24/10/2011 5:41	60.6	25/10/2011 6:51	64.4	27/10/2011 0:01	63.0		
23/10/2011 4:36	59.9	24/10/2011 5:46	60.8	25/10/2011 6:56	65.3	27/10/2011 0:06	62.6		
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23/10/2011 4:46	59.2	24/10/2011 5:56	61.5	25/10/2011 23:06	63.5	27/10/2011 0:16	62.8		
23/10/2011 4:51	59.3	24/10/2011 6:01	61.6	25/10/2011 23:11	64.4	27/10/2011 0:21	62.5		
23/10/2011 4:56	59.5	24/10/2011 6:06	62.0	25/10/2011 23:16	63.6	27/10/2011 0:26	62.5		
23/10/2011 5:01	60.6	24/10/2011 6:11	61.8	25/10/2011 23:21	63.4	27/10/2011 0:31	62.2		
23/10/2011 5:06	59.5	24/10/2011 6:16	62.2	25/10/2011 23:26	63.1	27/10/2011 0:36	61.9		
23/10/2011 5:11	59.6	24/10/2011 6:21	63.0	25/10/2011 23:31	63.3	27/10/2011 0:41	61.2		
23/10/2011 5:16	59.8	24/10/2011 6:26	63.2	25/10/2011 23:36	63.0	27/10/2011 0:46	61.9		
23/10/2011 5:21	59.1	24/10/2011 6:31	64.0	25/10/2011 23:41	62.8	27/10/2011 0:51	61.2		
23/10/2011 5:26	59.5	24/10/2011 6:36	63.6	25/10/2011 23:46	63.0	27/10/2011 0:56	61.7		
23/10/2011 5:31	59.7	24/10/2011 6:41	64.4	25/10/2011 23:51	63.1	27/10/2011 1:01	60.6		
23/10/2011 5:36	60.3	24/10/2011 6:46	63.9	25/10/2011 23:56	63.0	27/10/2011 1:06	60.9		
23/10/2011 5:41	60.2	24/10/2011 6:51	64.2	26/10/2011 0:01	63.6	27/10/2011 1:11	60.9		
23/10/2011 5:46	60.4	24/10/2011 6:56	64.6	26/10/2011 0:06	62.8	27/10/2011 1:16	60.7		
23/10/2011 5:51	60.7	24/10/2011 23:01	63.2	26/10/2011 0:11	63.4	27/10/2011 1:21	60.6		
23/10/2011 5:56	60.6	24/10/2011 23:06	62.8	26/10/2011 0:16	62.4	27/10/2011 1:26	60.2		
23/10/2011 6:01	60.2	24/10/2011 23:11	63.2	26/10/2011 0:21	62.4	27/10/2011 1:31	60.3		
23/10/2011 6:06	61.3	24/10/2011 23:16	63.5	26/10/2011 0:26	62.3	27/10/2011 1:36	60.4		
23/10/2011 6:11	61.6	24/10/2011 23:21	62.8	26/10/2011 0:31	61.9	27/10/2011 1:41	60.6		
23/10/2011 6:16	64.9	24/10/2011 23:26	62.5	26/10/2011 0:36	61.4	27/10/2011 1:46	60.2		
23/10/2011 6:21	62.2	24/10/2011 23:31	62.9	26/10/2011 0:41	60.2	27/10/2011 1:51	60.0		
23/10/2011 6:26	62.1	24/10/2011 23:36	63.2	26/10/2011 0:46	61.4	27/10/2011 1:56	60.2		
23/10/2011 6:31	61.1	24/10/2011 23:41	63.9	26/10/2011 0:51	60.9	27/10/2011 2:01	59.9		
23/10/2011 6:36	62.1	24/10/2011 23:46	61.9	26/10/2011 0:56	59.9	27/10/2011 2:06	59.6		
23/10/2011 6:41	62.5								

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

Normal Day 07:00-19:00			11/10/2011 8:31 71.3			15/10/2011 15:31 69.7			21/10/2011 10:31 71.1			26/10/2011 17:31 68.2																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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72.0	27/10/2011 10:01 69.9	28/9/2011 11:01 65.4	4/10/2011 18:01 68.3	11/10/2011 13:01 73.2	17/10/2011 8:01 68.1	21/10/2011 15:01 73.2	27/10/2011 10:31 72.4	28/9/2011 11:31 67.7	4/10/2011 18:31 68.7	11/10/2011 13:31 72.6	17/10/2011 8:31 70.3	21/10/2011 15:31 73.1	27/10/2011 11:01 70.3	28/9/2011 12:01 67.9	6/10/2011 17:01 63.2	11/10/2011 14:01 72.4	17/10/2011 9:01 70.4	21/10/2011 16:01 72.8	27/10/2011 11:31 69.0	28/9/2011 12:31 67.9	6/10/2011 7:31 66.5	11/10/2011 14:31 57.7	17/10/2011 9:31 71.0	21/10/2011 16:31 73.1	27/10/2011 12:01 64.9	28/9/2011 13:01 70.8	6/10/2011 8:01 71.4	11/10/2011 15:01 64.1	17/10/2011 10:01 71.1	21/10/2011 17:01 62.7	27/10/2011 12:31 69.0	28/9/2011 13:31 62.9	6/10/2011 8:31 72.3	11/10/2011 15:31 72.2	17/10/2011 10:31 71.9	21/10/2011 17:31 70.7	27/10/2011 13:01 65.0	28/9/2011 14:01 69.2	6/10/2011 9:01 63.8	11/10/2011 16:01 72.9	17/10/2011 11:01 72.3	21/10/2011 18:01 65.6	27/10/2011 13:31 69.3	28/9/2011 14:31 57.5	6/10/2011 9:31 72.8	11/10/2011 16:31 72.8	17/10/2011 11:31 69.7	21/10/2011 18:31 64.3	27/10/2011 14:01 70.8	28/9/2011 15:01 72.2	6/10/2011 10:01 68.7	11/10/2011 17:01 63.9	17/10/2011 12:01 65.3	22/10/2011 7:01 63.1	27/10/2011 14:31 69.8	28/9/2011 15:31 71.5	6/10/2011 10:31 70.4	11/10/2011 17:31 69.7	17/10/2011 12:31 69.1	22/10/2011 7:31 65.8	27/10/2011 15:01 68.8	28/9/2011 16:01 72.8	6/10/2011 11:01 70.2	11/10/2011 18:01 67.8	17/10/2011 13:01 72.3	22/10/2011 8:01 66.2	27/10/2011 15:31 70.8	28/9/2011 16:31 72.5	6/10/2011 11:31 70.6	11/10/2011 18:31 65.5	17/10/2011 13:31 72.7	22/10/2011 8:31 66.1	27/10/2011 16:01 70.9	28/9/2011 17:01 72.5	6/10/2011 12:01 65.3	12/10/2011 7:01 67.0	17/10/2011 14:01 71.7	22/10/2011 9:01 73.2	27/10/2011 16:31 72.0	28/9/2011 17:31 69.2	6/10/2011 12:31 66.1	12/10/2011 7:31 65.4	17/10/2011 14:31 71.6	22/10/2011 9:31 72.7	27/10/2011 17:01 67.8	28/9/2011 18:01 68.1	6/10/2011 13:01 66.7	12/10/2011 8:01 70.4	17/10/2011 15:01 72.5	22/10/2011 10:01 72.3	27/10/2011 17:31 67.6	28/9/2011 18:31 65.8	6/10/2011 13:31 58.4	12/10/2011 8:31 58.6	17/10/2011 15:31 71.7	22/10/2011 10:31 73.2	27/10/2011 18:01 67.9	28/9/2011 19:01 61.8	6/10/2011 14:01 66.7	12/10/2011 9:01 72.7	17/10/2011 16:01 72.2	22/10/2011 11:01 72.3	27/10/2011 18:31 67.9	28/9/2011 19:31 61.8	6/10/2011 14:31 72.6	12/10/2011 9:31 70.6	17/10/2011 16:31 71.5	22/10/2011 11:31 71.0	27/10/2011 19:01 64.2	28/9/2011 20:01 62.2	6/10/2011 15:01 71.7	12/10/2011 10:01 70.2	17/10/2011 17:01 68.3	22/10/2011 12:01 64.8	27/10/2011 19:31 69.3	28/9/2011 20:31 62.0	6/10/2011 15:31 70.1	12/10/2011 10:31 70.4	17/10/2011 17:31 72.7	22/10/2011 12:31 64.9	27/10/2011 20:01 64.2	28/9/2011 21:01 64.2	6/10/2011 16:01 72.6	12/10/2011 11:01 73.0	17/10/2011 18:01 66.5	22/10/2011 13:01 71.5	27/10/2011 20:31 72.0	28/9/2011 21:31 62.1	6/10/2011 16:31 70.2	12/10/2011 11:31 69.9	17/10/2011 18:31 66.2	22/10/2011 13:31 73.2	27/10/2011 21:01 62.5	28/9/2011 22:01 64.2	6/10/2011 17:01 69.3	12/10/2011 12:01 66.3	18/10/2011 7:01 64.1	22/10/2011 14:01 71.2	27/10/2011 21:31 62.1	6/10/2011 17:31 68.7	12/10/2011 12:31 65.1	18/10/2011 7:31 65.4	22/10/2011 14:31 71.3	28/9/2011 22:31 62.2	6/10/2011 18:01 65.2	12/10/2011 13:01 71.2	18/10/2011 8:01 72.0	22/10/2011 15:01 68.6	28/9/2011 23:01 62.6	6/10/2011 18:31 64.2	12/10/2011 13:31 71.9	18/10/2011 8:31 72.9	22/10/2011 15:31 67.7	28/9/2011 23:31 62.2	6/10/2011 19:01 61.0	12/10/2011 14:01 73.3	18/10/2011 9:01 71.5	22/10/2011 16:01 65.2	28/9/2011 24:01 62.8	6/10/2011 12:31 61.1	12/10/2011 14:31 69.0	18/10/2011 9:31 73.8	22/10/2011 16:31 62.5	28/9/2011 24:31 62.2	6/10/2011 13:01 61.3	12/10/2011 15:01 72.6	18/10/2011 10:01 73.4	22/10/2011 17:01 73.1	28/9/2011 25:01 62.6	6/10/2011 13:31 61.6	12/10/2011 15:31 67.8	18/10/2011 10:31 73.6	22/10/2011 17:31 66.9	28/9/2011 25:31 62.8	6/10/2011 14:01 61.6	12/10/2011 16:01 74.2	18/10/2011 11:01 73.4	22/10/2011 18:01 65.2	28/9/2011 26:01 62.8	6/10/2011 14:31 61.8	12/10/2011 16:31 67.8	18/10/2011 11:31 71.0	22/10/2011 18:31 63.9	28/9/2011 26:31 63.0	6/10/2011 15:01 61.9	12/10/2011 17:01 73.2	18/10/2011 12:01 67.3	24/10/2011 7:01 63.4	28/9/2011 27:01 62.5	6/10/2011 15:31 61.5	12/10/2011 17:31 72.2	18/10/2011 12:31 70.2	24/10/2011 7:31 63.4	28/9/2011 27:31 62.5	6/10/2011 16:01 63.4	12/10/2011 18:01 68.1	18/10/2011 13:01 74.3	24/10/2011 8:01 70.9	28/9/2011 28:01 62.6	6/10/2011 16:31 63.3	12/10/2011 18:31 64.1	18/10/2011 13:31 74.9	24/10/2011 8:31 65.1	28/9/2011 28:31 62.8	6/10/2011 17:01 63.2	13/10/2011 7:01 63.4	18/10/2011 14:01 72.9	24/10/2011 9:01 71.5	28/9/2011 29:01 62.8	6/10/2011 17:31 63.5	13/10/2011 7:31 63.4	18/10/2011 14:31 72.9	24/10/2011 9:31 70.6	28/9/2011 29:31 62.8	6/10/2011 18:01 63.1	13/10/2011 8:01 64.9	18/10/2011 15:01 73.5	24/10/2011 10:01 68.9	28/9/2011 30:01 62.5	6/10/2011 18:31 63.2	13/10/2011 8:31 69.0	18/10/2011 15:31 73.4	24/10/2011 10:31 70.2	28/9/2011 30:31 62.5	6/10/2011 19:01 66.0	13/10/2011 9:01 68.2	18/10/2011 16:01 72.1	24/10/2011 11:01 71.7	28/9/2011 31:01 62.2	6/10/2011 7:31 68.9	13/10/2011 9:31 67.7	18/10/2011 16:31 71.1	24/10/2011 11:31 69.2	28/9/2011 31:31 62.2	6/10/2011 8:01 68.8	13/10/2011 10:01 72.0	18/10/2011 17:01 70.1	24/10/2011 12:01 64.3	28/9/2011 32:01 62.2	6/10/2011 8:31 63.3	13/10/2011 10:31 72.5	18/10/2011 17:31 68.5	24/10/2011 12:31 65.0	28/9/2011 32:31 62.2	6/10/2011 9:01 69.0	13/10/2011 11:01 62.0	18/10/2011 18:01 69.4	24/10/2011 13:01 70.9	28/9/2011 33:01 62.2	6/10/2011 9:31 68.8	13/10/2011 11:31 70.0	18/10/2011 18:31 71.7	24/10/2011 13:31 70.8	28/9/2011 33:31 62.2	6/10/2011 10:01 66.9	13/10/2011 12:01 65.0	19/10/2011 7:01 64.5	24/10/2011 14:01 70.5	28/9/2011 34:01 62.2	6/10/2011 10:31 67.9	13/10/2011 12:31 65.9	19/10/2011 7:31 64.8	24/10/2011 14:31 70.8	28/9/2011 34:31 62.2	6/10/2011 11:01 61.8	13/10/2011 13:01 72.2	19/10/2011 8:01 69.8	24/10/2011 15:01 71.5	28/9/2011 35:01 62.2	6/10/2011 11:31 71.0	13/10/2011 13:31 72.9	19/10/2011 8:31 71.5	24/10/2011 15:31 69.1	28/9/2011 35:31 62.2	6/10/2011 12:01 66.9	13/10/2011 14:01 71.0	19/10/2011 9:01 57.1	24/10/2011 16:01 69.2	28/9/2011 36:01 62.2	6/10/2011 12:31 67.8	13/10/2011 14:31 71.6	19/10/2011 9:31 60.0	24/10/2011 16:31 70.6	28/9/2011 36:31 62.2	6/10/2011 13:01 71.6	13/10/2011 15:01 68.7	19/10/2011 10:01 65.7	24/10/2011 17:01 71.1	28/9/2011 37:01 62.2	6/10/2011 13:31 64.1	13/10/2011 15:31 71.3	19/10/2011 10:31 60.9	24/10/2011 17:31 65.5	28/9/2011 37:31 62.2	6/10/2011 14:01 64.4	13/10/2011 16:01 71.6	19/10/2011 11:01 71.2	24/10/2011 18:01 67.4	28/9/2011 38:01 62.2	6/10/2011 14:31 66.5	13/10/2011 16:31 71.8	19/10/2011 11:31 70.5	24/10/2011 18:31 63.9	28/9/2011 38:31 62.2	6/10/2011 15:01 66.5	13/10/2011 17:01 73.1	19/10/2011 12:01 64.8	25/10/2011 7:01 62.4	28/9/2011 39:01 62.2	6/10/2011 15:31 73.3	13/10/2011 17:31 69.0	19/10/2011 12:31 67.6	25/10/2011 7:31 64.9	28/9/2011 39:31 62.2	6/10/2011 16:01 72.0	13/10/2011 18:01 67.8	19/10/2011 13:01 67.3	25/10/2011 8:01 70.8	28/9/2011 40:01 62.2	6/10/2011 16:31 72.0	13/10/2011 18:31 66.5	19/10/2011 13:31 66.3	25/10/2011 8:31 72.8	28/9/2011 40:31 62.2	6/10/2011 17:01 72.0	14/10/2011 7:01 63.4	19/10/2011 14:01 63.0	25/10/2011 9:01 70.3	28/9/2011 41:01 62.2	6/10/2011 17:31 69.1	14/10/2011 7:31 65.1	19/10/2011 14:31 73.1	25/10/2011 9:31 71.7	28/9/2011 41:31 62.2	6/10/2011 18:01 67.1	14/10/2011 8:01 72.2	19/10/2011 15:01 72.6	25/10/2011 10:01 69.9	28/9/2011 42:01 62.2	6/10/2011 18:31 66.1	14/10/2011 8:31 68.6	19/10/2011 15:31 73.1	25/10/2011 10:31 69.1	28/9/2011 42:31 62.2	6/10/2011 19:01 63.2	14/10/2011 9:01 71.0	19/10/2011 16:01 73.2	25/10/2011 11:01 69.1	28/9/2011 43:01 62.2	6/10/2011 19:31 63.2	14/10/2011 9:31 71.4	19/10/2011 16:31 72.3	25/10/2011 11:31 67.3	28/9/2011 43:31 62.2	6/10/2011 20:01 63.2	14/10/2011 10:01 69.9	19/10/2011 17:01 71.9	25/10/2011 12:01 64.2	28/9/2011 44:01 62.2	6/10/2011 20:31 70.3	14/10/2011 10:31 71.5	19/10/2011 17:31 68.8	25/10/2011 12:31 64.4	28/9/2011 44:31 62.2	6/10/2011 21:01 71.8	14/10/2011 11:01 70.4	19/10/2011 18:01 66.6	25/10/2011 13:01 70.1	28/9/2011 45:01 62.2	6/10/2011 21:31 72.2	14/10/2011 11:31 71.5	19/10/2011 18:31 65.5	25/10/2011 13:31 70.2	28/9/2011 45:31 62.2	6/10/2011 22:01 72.6	14/10/2011 12:01 67.8	20/10/2011 7:01 63.3	25/10/2011 14:01 69.7	28/9/2011 46:01 62.2	6/10/2011 22:31 72.1	14/10/2011 12:31 69.6	20/10/2011 7:31 64.7	25/10/2011 14:31 71.2	28/9/2011 46:31 62.2	6/10/2011 23:01 72.0	14/10/2011 13:01 70.1	20/10/2011 8:01 69.7	25/10/2011 15:01 72.1	28/9/2011 47:01 62.2	6/10/2011 23:31 72.1	14/10/2011 13:31 71.0	20/10/2011 8:31 71.0	25/10/2011 15:31 70.3	28/9/2011 47:31 62.2	6/10/2011 24:01 70.1	14/10/2011 14:01 72.5	20/10/2011 9:01 70.3	25/10/2011 16:01 70.2	28/9/2011 48:01 62.2	6/10/2011 24:31 66.9	14/10/2011 14:31 69.9	20/10/2011 9:31 71.4	25/10/2011 16:31 68.7	28/9/2011 48:31 62.2	6/10/2011 25:01 71.5	14/10/2011 15:01 70.1	20/10/2011 10:01 71.0	25/10/2011 17:01 67.7	28/9/2011 49:01 62.2	6/10/2011 25:31 71.5	14/10/2011 15:31 71.5	20/10/2011 10:31 71.5

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

29/9/2011 21:41	62.1	1/10/2011 10:51	66.6	1/10/2011 20:01	64.0	2/10/2011 13:11	65.5	2/10/2011 22:21	62.1	5/10/2011 7:31	61.0
29/9/2011 21:46	61.8	1/10/2011 10:56	63.5	1/10/2011 20:06	62.3	2/10/2011 13:16	65.3	2/10/2011 22:26	61.7	5/10/2011 7:36	61.2
29/9/2011 21:51	62.3	1/10/2011 11:01	66.4	1/10/2011 20:11	61.2	2/10/2011 13:21	65.1	2/10/2011 22:31	61.6	5/10/2011 7:41	62.7
29/9/2011 21:56	61.8	1/10/2011 11:06	66.4	1/10/2011 20:16	61.2	2/10/2011 13:26	66.5	2/10/2011 22:36	61.5	5/10/2011 7:46	62.9
29/9/2011 22:01	61.7	1/10/2011 11:11	64.4	1/10/2011 20:21	60.5	2/10/2011 13:31	65.8	2/10/2011 22:41	62.0	5/10/2011 7:51	64.2
29/9/2011 22:06	62.0	1/10/2011 11:16	66.2	1/10/2011 20:26	61.5	2/10/2011 13:36	65.4	2/10/2011 22:46	62.0	5/10/2011 7:56	63.1
29/9/2011 22:11	62.5	1/10/2011 11:21	63.4	1/10/2011 20:31	64.8	2/10/2011 13:41	66.0	2/10/2011 22:51	61.3	5/10/2011 8:01	62.6
29/9/2011 22:16	62.5	1/10/2011 11:26	66.6	1/10/2011 20:36	61.4	2/10/2011 13:46	65.1	2/10/2011 22:56	61.7	5/10/2011 8:06	63.0
29/9/2011 22:21	61.8	1/10/2011 11:31	62.6	1/10/2011 20:41	60.9	2/10/2011 13:51	65.1	3/10/2011 19:01	63.8	5/10/2011 8:11	63.3
29/9/2011 22:26	62.3	1/10/2011 11:36	65.7	1/10/2011 20:46	61.6	2/10/2011 13:56	63.9	3/10/2011 19:06	64.3	5/10/2011 8:16	63.7
29/9/2011 22:31	62.7	1/10/2011 11:41	62.4	1/10/2011 20:51	60.4	2/10/2011 14:01	64.3	3/10/2011 19:11	63.2	5/10/2011 8:21	64.5
29/9/2011 22:36	62.4	1/10/2011 11:46	63.6	1/10/2011 20:56	61.9	2/10/2011 14:06	64.5	3/10/2011 19:16	62.7	5/10/2011 8:26	64.3
29/9/2011 22:41	61.7	1/10/2011 11:51	62.6	1/10/2011 21:01	62.0	2/10/2011 14:11	63.7	3/10/2011 19:21	63.2	5/10/2011 8:31	64.9
29/9/2011 22:46	61.6	1/10/2011 11:56	62.6	1/10/2011 21:06	62.2	2/10/2011 14:16	62.5	3/10/2011 19:26	62.0	5/10/2011 8:36	64.8
29/9/2011 22:51	62.2	1/10/2011 12:01	61.9	1/10/2011 21:11	61.6	2/10/2011 14:21	62.8	3/10/2011 19:31	63.5	5/10/2011 8:41	64.7
29/9/2011 22:56	62.0	1/10/2011 12:06	62.3	1/10/2011 21:16	61.1	2/10/2011 14:26	64.0	3/10/2011 19:36	63.6	5/10/2011 8:46	66.5
30/9/2011 19:01	66.7	1/10/2011 12:11	62.2	1/10/2011 21:21	62.1	2/10/2011 14:31	65.2	3/10/2011 19:41	63.0	5/10/2011 8:51	64.2
30/9/2011 19:06	65.7	1/10/2011 12:16	61.8	1/10/2011 21:26	61.1	2/10/2011 14:36	65.6	3/10/2011 19:46	63.5	5/10/2011 8:56	67.1
30/9/2011 19:11	65.3	1/10/2011 12:21	62.3	1/10/2011 21:31	61.6	2/10/2011 14:41	65.8	3/10/2011 19:51	63.0	5/10/2011 9:01	66.1
30/9/2011 19:16	65.1	1/10/2011 12:26	62.2	1/10/2011 21:36	60.7	2/10/2011 14:46	65.8	3/10/2011 19:56	63.1	5/10/2011 9:06	66.9
30/9/2011 19:21	65.8	1/10/2011 12:31	63.2	1/10/2011 21:41	61.4	2/10/2011 14:51	64.5	3/10/2011 20:01	63.3	5/10/2011 9:11	68.6
30/9/2011 19:26	65.1	1/10/2011 12:36	62.9	1/10/2011 21:46	60.7	2/10/2011 14:56	63.0	3/10/2011 20:06	64.1	5/10/2011 9:16	66.2
30/9/2011 19:31	65.2	1/10/2011 12:41	65.4	1/10/2011 21:51	61.5	2/10/2011 15:01	63.1	3/10/2011 20:11	63.8	5/10/2011 9:21	66.1
30/9/2011 19:36	64.7	1/10/2011 12:46	64.4	1/10/2011 21:56	61.6	2/10/2011 15:06	63.3	3/10/2011 20:16	63.9	5/10/2011 9:26	64.3
30/9/2011 19:41	64.3	1/10/2011 12:51	63.4	1/10/2011 22:01	61.7	2/10/2011 15:11	62.9	3/10/2011 20:21	63.4	5/10/2011 9:31	64.8
30/9/2011 19:46	64.5	1/10/2011 12:56	64.9	1/10/2011 22:06	65.5	2/10/2011 15:16	62.7	3/10/2011 20:26	63.6	5/10/2011 9:36	65.8
30/9/2011 19:51	65.2	1/10/2011 13:01	66.0	1/10/2011 22:11	61.4	2/10/2011 15:21	62.2	3/10/2011 20:31	63.3	5/10/2011 9:41	65.0
30/9/2011 19:56	65.4	1/10/2011 13:06	65.0	1/10/2011 22:16	64.0	2/10/2011 15:26	62.8	3/10/2011 20:36	63.8	5/10/2011 9:46	65.1
30/9/2011 20:01	65.0	1/10/2011 13:11	63.9	1/10/2011 22:21	61.6	2/10/2011 15:31	63.6	3/10/2011 20:41	63.0	5/10/2011 9:51	64.6
30/9/2011 20:06	64.3	1/10/2011 13:16	65.7	1/10/2011 22:26	61.5	2/10/2011 15:36	63.6	3/10/2011 20:46	62.7	5/10/2011 9:56	64.7
30/9/2011 20:11	64.1	1/10/2011 13:21	62.8	1/10/2011 22:31	63.3	2/10/2011 15:41	64.0	3/10/2011 20:51	63.2	5/10/2011 10:01	64.3
30/9/2011 20:16	65.1	1/10/2011 13:26	65.9	1/10/2011 22:36	62.2	2/10/2011 15:46	64.5	3/10/2011 20:56	63.1	5/10/2011 10:06	64.4
30/9/2011 20:21	65.1	1/10/2011 13:31	63.6	1/10/2011 22:41	63.0	2/10/2011 15:51	65.1	3/10/2011 21:01	62.7	5/10/2011 10:11	64.3
30/9/2011 20:26	65.4	1/10/2011 13:36	64.5	1/10/2011 22:46	61.5	2/10/2011 15:56	65.2	3/10/2011 21:06	62.7	5/10/2011 10:16	64.9
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30/9/2011 22:01	62.6	1/10/2011 15:11	65.6	2/10/2011 8:21	62.6	2/10/2011 17:31	63.3	3/10/2011 22:41	62.4	5/10/2011 11:51	63.4
30/9/2011 22:06	62.3	1/10/2011 15:16	60.9	2/10/2011 8:26	62.5	2/10/2011 17:36	62.5	3/10/2011 22:46	62.6	5/10/2011 11:56	63.2
30/9/2011 22:11	62.2	1/10/2011 15:21	66.1	2/10/2011 8:31	64.6	2/10/2011 17:41	62.5	3/10/2011 22:51	62.4	5/10/2011 12:01	62.6
30/9/2011 22:16	62.4	1/10/2011 15:26	60.0	2/10/2011 8:36	63.7	2/10/2011 17:46	62.9	3/10/2011 22:56	62.6	5/10/2011 12:06	62.8
30/9/2011 22:21	61.9	1/10/2011 15:31	65.9	2/10/2011 8:41	64.6	2/10/2011 17:51	62.7	4/10/2011 19:01	61.5	5/10/2011 12:11	62.7
30/9/2011 22:26	61.6	1/10/2011 15:36	62.2	2/10/2011 8:46	64.5	2/10/2011 17:56	62.6	4/10/2011 19:06	68.1	5/10/2011 12:16	66.8
30/9/2011 22:31	62.1	1/10/2011 15:41	65.2	2/10/2011 8:51	64.0	2/10/2011 18:01	63.6	4/10/2011 19:11	68.0	5/10/2011 12:21	63.7
30/9/2011 22:36	62.0	1/10/2011 15:46	62.6	2/10/2011 8:56	64.9	2/10/2011 18:06	64.2	4/10/2011 19:16	68.1	5/10/2011 12:26	63.6
30/9/2011 22:41	61.9	1/10/2011 15:51	64.4	2/10/2011 9:01	64.7	2/10/2011 18:11	63.9	4/10/2011 19:21	69.3	5/10/2011 12:31	62.8
30/9/2011 22:46	61.8	1/10/2011 15:56	61.5	2/10/2011 9:06	64.8	2/10/2011 18:16	63.2	4/10/2011 19:26	67.7	5/10/2011 12:36	62.5
30/9/2011 22:51	61.5	1/10/2011 16:01	62.9	2/10/2011 9:11	65.5	2/10/2011 18:21	63.1	4/10/2011 19:31	68.9	5/10/2011 12:41	62.4
30/9/2011 22:56	61.8	1/10/2011 16:06	60.4	2/10/2011 9:16	64.9	2/10/2011 18:26	63.0	4/10/2011 19:36	67.9	5/10/2011 12:46	63.5
1/10/2011 7:01	61.6	1/10/2011 16:11	63.8	2/10/2011 9:21	64.4	2/10/2011 18:31	63.3	4/10/2011 19:41	67.9	5/10/2011 12:51	63.5
1/10/2011 7:06	64.3	1/10/2011 16:16	65.0	2/10/2011 9:26	65.3	2/10/2011 18:36	63.4	4/10/2011 19:46	67.2	5/10/2011 12:56	64.9
1/10/2011 7:11	61.5	1/10/2011 16:21	63.0	2/10/2011 9:31	64.8	2/10/2011 18:41	62.5	4/10/2011 19:51	68.0	5/10/2011 13:01	66.0
1/10/2011 7:16	62.6	1/10/2011 16:26	64.2	2/10/2011 9:36	64.7	2/10/2011 18:46	62.7	4/10/2011 19:56	68.0	5/10/2011 13:06	65.8
1/10/2011 7:21	61.4	1/10/2011 16:31	64.0	2/10/2011 9:41	65.0	2/10/2011 18:51	63.5	4/10/2011 20:01	67.6	5/10/2011 13:11	65.5
1/10/2011											

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

5/10/2011 16:41	64.6	6/10/2011 21:51	62.4	9/10/2011 7:01	61.5	9/10/2011 16:11	67.9	10/10/2011 21:21	63.0	12/10/2011 22:31	63.7
5/10/2011 16:46	64.8	6/10/2011 21:56	62.0	9/10/2011 7:06	61.5	9/10/2011 16:16	68.7	10/10/2011 21:26	63.5	12/10/2011 22:36	63.3
5/10/2011 16:51	65.0	6/10/2011 22:01	61.8	9/10/2011 7:11	61.5	9/10/2011 16:21	68.8	10/10/2011 21:31	64.0	12/10/2011 22:41	62.9
5/10/2011 16:56	65.5	6/10/2011 22:06	61.9	9/10/2011 7:16	61.2	9/10/2011 16:26	68.0	10/10/2011 21:36	63.1	12/10/2011 22:46	63.7
5/10/2011 17:01	65.7	6/10/2011 22:11	61.4	9/10/2011 7:21	61.8	9/10/2011 16:31	68.9	10/10/2011 21:41	62.9	12/10/2011 22:51	63.4
5/10/2011 17:06	67.0	6/10/2011 22:16	62.0	9/10/2011 7:26	62.1	9/10/2011 16:36	69.1	10/10/2011 21:46	63.0	12/10/2011 22:56	62.8
5/10/2011 17:11	65.5	6/10/2011 22:21	62.5	9/10/2011 7:31	61.1	9/10/2011 16:41	67.4	10/10/2011 21:51	62.9	13/10/2011 19:01	64.4
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5/10/2011 17:31	66.2	6/10/2011 22:41	62.0	9/10/2011 7:51	62.2	9/10/2011 17:01	64.9	10/10/2011 22:11	63.7	13/10/2011 19:21	64.0
5/10/2011 17:36	65.0	6/10/2011 22:46	61.6	9/10/2011 7:56	63.4	9/10/2011 17:06	65.1	10/10/2011 22:16	62.6	13/10/2011 19:26	64.2
5/10/2011 17:41	65.9	6/10/2011 22:51	60.8	9/10/2011 8:01	63.7	9/10/2011 17:11	64.7	10/10/2011 22:21	63.2	13/10/2011 19:31	64.7
5/10/2011 17:46	65.6	6/10/2011 22:56	61.3	9/10/2011 8:06	64.9	9/10/2011 17:16	67.5	10/10/2011 22:26	63.5	13/10/2011 19:36	64.2
5/10/2011 17:51	65.0	7/10/2011 19:01	63.6	9/10/2011 8:11	63.4	9/10/2011 17:21	65.5	10/10/2011 22:31	63.7	13/10/2011 19:41	64.7
5/10/2011 17:56	64.9	7/10/2011 19:06	63.4	9/10/2011 8:16	67.7	9/10/2011 17:26	65.2	10/10/2011 22:36	63.7	13/10/2011 19:46	64.0
5/10/2011 18:01	64.8	7/10/2011 19:11	63.2	9/10/2011 8:21	56.3	9/10/2011 17:31	67.1	10/10/2011 22:41	63.7	13/10/2011 19:51	64.0
5/10/2011 18:06	65.4	7/10/2011 19:16	63.2	9/10/2011 8:26	67.5	9/10/2011 17:36	66.4	10/10/2011 22:46	64.0	13/10/2011 19:56	63.8
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5/10/2011 18:16	65.0	7/10/2011 19:26	63.9	9/10/2011 8:36	67.1	9/10/2011 17:46	64.8	10/10/2011 22:56	64.0	13/10/2011 20:06	63.9
5/10/2011 18:21	65.4	7/10/2011 19:31	62.9	9/10/2011 8:41	68.5	9/10/2011 17:51	63.4	11/10/2011 19:01	65.9	13/10/2011 20:11	63.8
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5/10/2011 18:31	65.9	7/10/2011 19:41	63.0	9/10/2011 8:51	68.6	9/10/2011 18:01	63.6	11/10/2011 19:11	65.6	13/10/2011 20:21	64.1
5/10/2011 18:36	65.5	7/10/2011 19:46	62.9	9/10/2011 8:56	68.6	9/10/2011 18:06	62.3	11/10/2011 19:16	65.9	13/10/2011 20:26	63.8
5/10/2011 18:41	63.4	7/10/2011 19:51	62.6	9/10/2011 9:01	66.1	9/10/2011 18:11	62.1	11/10/2011 19:21	66.0	13/10/2011 20:31	63.6
5/10/2011 18:46	65.0	7/10/2011 19:56	63.1	9/10/2011 9:06	67.3	9/10/2011 18:16	61.5	11/10/2011 19:26	66.1	13/10/2011 20:36	63.4
5/10/2011 18:51	64.9	7/10/2011 20:01	63.0	9/10/2011 9:11	66.8	9/10/2011 18:21	63.0	11/10/2011 19:31	66.4	13/10/2011 20:41	63.6
5/10/2011 18:56	64.5	7/10/2011 20:06	63.5	9/10/2011 9:16	66.9	9/10/2011 18:26	61.7	11/10/2011 19:36	65.9	13/10/2011 20:46	63.5
5/10/2011 19:01	63.9	7/10/2011 20:11	62.3	9/10/2011 9:21	66.6	9/10/2011 18:31	62.1	11/10/2011 19:41	66.2	13/10/2011 20:51	63.5
5/10/2011 19:06	65.4	7/10/2011 20:16	62.6	9/10/2011 9:26	64.2	9/10/2011 18:36	61.5	11/10/2011 19:46	64.6	13/10/2011 20:56	63.7
5/10/2011 19:11	65.0	7/10/2011 20:21	62.6	9/10/2011 9:31	56.3	9/10/2011 18:41	64.8	11/10/2011 19:51	64.7	13/10/2011 21:01	63.6
5/10/2011 19:16	64.7	7/10/2011 20:26	62.2	9/10/2011 9:36	58.8	9/10/2011 18:46	63.0	11/10/2011 19:56	63.8	13/10/2011 21:06	63.7
5/10/2011 19:21	64.3	7/10/2011 20:31	63.0	9/10/2011 9:41	57.1	9/10/2011 18:51	63.1	11/10/2011 20:01	64.1	13/10/2011 21:11	63.0
5/10/2011 19:26	62.4	7/10/2011 20:36	63.2	9/10/2011 9:46	60.3	9/10/2011 18:56	63.0	11/10/2011 20:06	64.0	13/10/2011 21:16	63.2
5/10/2011 19:31	62.6	7/10/2011 20:41	62.4	9/10/2011 9:51	69.1	9/10/2011 19:01	61.7	11/10/2011 20:11	63.8	13/10/2011 21:21	63.0
5/10/2011 19:36	62.4	7/10/2011 20:46	62.0	9/10/2011 9:56	68.7	9/10/2011 19:06	61.9	11/10/2011 20:16	64.0	13/10/2011 21:26	63.2
5/10/2011 19:41	62.3	7/10/2011 20:51	62.7	9/10/2011 10:01	67.5	9/10/2011 19:11	61.6	11/10/2011 20:21	63.8	13/10/2011 21:31	63.6
5/10/2011 19:46	62.3	7/10/2011 20:56	62.3	9/10/2011 10:06	66.8	9/10/2011 19:16	61.6	11/10/2011 20:26	63.5	13/10/2011 21:36	63.9
5/10/2011 19:51	61.8	7/10/2011 21:01	62.6	9/10/2011 10:11	65.9	9/10/2011 19:21	62.4	11/10/2011 20:31	63.0	13/10/2011 21:41	63.4
5/10/2011 19:56	61.8	7/10/2011 21:06	63.5	9/10/2011 10:16	66.2	9/10/2011 19:26	61.8	11/10/2011 20:36	64.0	13/10/2011 21:46	63.5
5/10/2011 20:01	63.4	7/10/2011 21:11	63.7	9/10/2011 10:21	66.0	9/10/2011 19:31	61.7	11/10/2011 20:41	63.3	13/10/2011 21:51	62.9
5/10/2011 20:06	64.6	7/10/2011 21:16	62.7	9/10/2011 10:26	65.7	9/10/2011 19:36	61.2	11/10/2011 20:46	63.1	13/10/2011 21:56	63.7
5/10/2011 20:11	62.3	7/10/2011 21:21	62.2	9/10/2011 10:31	65.7	9/10/2011 19:41	61.2	11/10/2011 20:51	63.5	13/10/2011 22:01	63.3
5/10/2011 20:16	61.2	7/10/2011 21:26	63.0	9/10/2011 10:36	65.9	9/10/2011 19:46	62.0	11/10/2011 20:56	63.3	13/10/2011 22:06	63.2
5/10/2011 20:21	61.5	7/10/2011 21:31	61.4	9/10/2011 10:41	66.7	9/10/2011 19:51	62.1	11/10/2011 21:01	62.9	13/10/2011 22:11	63.1
5/10/2011 20:26	61.6	7/10/2011 21:36	61.6	9/10/2011 10:46	66.5	9/10/2011 19:56	61.4	11/10/2011 21:06	63.4	13/10/2011 22:16	64.4
5/10/2011 20:31	62.0	7/10/2011 21:41	61.9	9/10/2011 10:51	65.7	9/10/2011 20:01	61.3	11/10/2011 21:11	65.0	13/10/2011 22:21	63.1
5/10/2011 20:36	61.7	7/10/2011 21:46	61.8	9/10/2011 10:56	67.2	9/10/2011 20:06	61.0	11/10/2011 21:16	63.0	13/10/2011 22:26	63.4
5/10/2011 20:41	62.3	7/10/2011 21:51	61.6	9/10/2011 11:01	65.7	9/10/2011 20:11	62.5	11/10/2011 21:21	63.3	13/10/2011 22:31	63.2
5/10/2011 20:46	61.7	7/10/2011 21:56	61.3	9/10/2011 11:06	66.3	9/10/2011 20:16	61.7	11/10/2011 21:26	63.4	13/10/2011 22:36	63.3
5/10/2011 20:51	61.6	7/10/2011 22:01	61.9	9/10/2011 11:11	68.0	9/10/2011 20:21	61.0	11/10/2011 21:31	63.3	13/10/2011 22:41	63.2
5/10/2011 20:56	61.7	7/10/2011 22:06	61.7	9/10/2011 11:16	56.7	9/10/2011 20:26	60.6	11/10/2011 21:36	63.2	13/10/2011 22:46	62.9
5/10/2011 21:01	62.3	7/10/2011 22:11	62.2	9/10/2011 11:21	66.3	9/10/2011 20:31	60.7	11/10/2011 21:41	63.1	13/10/2011 22:51	63.3
5/10/2011 21:06	61.8	7/10/2011 22:16	61.8	9/10/2011 11:26	64.9	9/10/2011 20:36	61.1	11/10/2011 21:46	62.8	13/10/2011 22:56	62.4
5/10/2011 21:11	61.5	7/10/2011 22:21	61.9	9/10/2011 11:31	68.6	9/10/2011 20:41	61.6	11/10/2011 21:51	63.3	14/10/2011 19:01	63.4
5/10/2011 21:16	61.9	7/10/2011 22:26	61.3	9/10/2011 11:36	61.9	9/10/2011 20:46	61.0	11/10/2011 21:56	63.0	14/10/2011 19:06	63.7
5/10/2011 21:21	61.5	7/10/2011 22:31	61.7	9/10/2011 11:41	66.3	9/10/2011 20:51	61.4	11/10/2011 22:01	63.1	14/10/2011 19:11	61.9
5/10/2011 21:26	62.1	7/10/2011 22:36	61.1	9/10/2011 11:46	68.3	9/10/2011 20:56	61.3	11/10/2011 22:06	62.8	14/10/2011 19:16	60.7
5/10/2011 21:31	61.9	7/10/2011 22:41	62.0	9/10/2011 11:51	69.4	9/10/2011 21:01	60.5	11/10/2011 22:11	63.9	14/10/2011 19:21	60.8
5/10/2011 21:36	61.9	7/10/2011 22:46	61.3	9/10/2011 11:56	62.7	9/10/2011 21:06	60.9	11/10/2011 22:16	63.0	14/10/2011 19:26	61.5
5/10/2011 21:41	61.6	7/10/2011 22:51	62.0	9/10/2011 12:01	62.2	9/10/2011 21:11	61.3	11/10/2011 22:21	63.4	14/10/2011 19:31	62.2
5/10/2011 21:46	61.6	7/10/2011 22:56	61.3	9/10/2011 12:06	62.6	9/10/2011 21:16	60.7	11/10/2011 22:26	62.9	14/10/2011 19:36	63.2
5/10/2011 21:51	61.6	8/10/2011 19:01	68.5	9/10/2011 12:11	61.9	9/10/2011 21:21	61.1	11/10/2011 22:31	62.5	14/10/2011 19:41	62.7
5/10/2011 21:56	62.1	8/10/2011 19:06	69.3	9/10/2011 12:16	64.6	9/10/2011 21:26	62.0	11/10/2011 22:36	62.7	14/10/2011 19:46	63.3
5/10/2011 22:01	61.9	8/10/2011 19:11	57.1	9/10/2011 12:21	63.1	9/10/2011 21:31	61.7	11/10/2011 22:41	62.2	14/10/2011 19:51	63.5
5/10/2011 22:06	61.2	8/10/2011 19:16	68.1	9/10/2011 12:26	63.2	9/10/2011 21:36	61.4	11/10/2011 22:46	62.9	14/10/2011 19:56	63.2
5/10/2011 22:11	62.3	8/10/2011 19:21	68.5	9/10/2011 12:31	61.8	9/10/2011 21:41	60.9	11/10/2011 22:51	62.5	14/10/2011 20:01	63.5
5/10/2011 22:16	62.1	8/10/2011 19:26	69.1	9/10/2011 12:36	64.3	9/10/2011 21:46	61.4	11/10/2011 22:56	62.4	14/10/2011 20:06	63.2
5/10/2011 22:21											

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

15/10/2011 19:41 62.9	16/10/2011 12:51 64.1	16/10/2011 22:01 62.9	19/10/2011 19:11 62.9	21/10/2011 20:21 61.7	23/10/2011 9:31 68.1
15/10/2011 19:46 62.9	16/10/2011 12:56 64.7	16/10/2011 22:06 61.9	19/10/2011 19:16 63.0	21/10/2011 20:26 62.3	23/10/2011 9:36 67.9
15/10/2011 19:51 62.6	16/10/2011 13:01 65.9	16/10/2011 22:11 62.0	19/10/2011 19:21 62.3	21/10/2011 20:31 61.6	23/10/2011 9:41 68.3
15/10/2011 19:56 62.2	16/10/2011 13:06 65.0	16/10/2011 22:16 62.1	19/10/2011 19:26 62.8	21/10/2011 20:36 63.4	23/10/2011 9:46 68.7
15/10/2011 20:01 65.0	16/10/2011 13:11 63.5	16/10/2011 22:21 61.1	19/10/2011 19:31 63.0	21/10/2011 20:41 61.3	23/10/2011 9:51 68.6
15/10/2011 20:06 62.8	16/10/2011 13:16 68.3	16/10/2011 22:26 62.1	19/10/2011 19:36 63.2	21/10/2011 20:46 61.6	23/10/2011 9:56 69.1
15/10/2011 20:11 61.8	16/10/2011 13:21 67.2	16/10/2011 22:31 61.8	19/10/2011 19:41 64.5	21/10/2011 20:51 61.9	23/10/2011 10:01 66.7
15/10/2011 20:16 62.5	16/10/2011 13:26 68.0	16/10/2011 22:36 62.0	19/10/2011 19:46 62.1	21/10/2011 20:56 60.9	23/10/2011 10:06 66.3
15/10/2011 20:21 61.8	16/10/2011 13:31 66.2	16/10/2011 22:41 61.9	19/10/2011 19:51 63.3	21/10/2011 21:01 62.1	23/10/2011 10:11 67.7
15/10/2011 20:26 62.3	16/10/2011 13:36 66.8	16/10/2011 22:46 61.1	19/10/2011 19:56 61.8	21/10/2011 21:06 61.6	23/10/2011 10:16 64.1
15/10/2011 20:31 62.8	16/10/2011 13:41 65.1	16/10/2011 22:51 60.3	19/10/2011 20:01 61.9	21/10/2011 21:11 61.0	23/10/2011 10:21 66.6
15/10/2011 20:36 62.4	16/10/2011 13:46 64.6	16/10/2011 22:56 61.1	19/10/2011 20:06 63.5	21/10/2011 21:16 61.6	23/10/2011 10:26 67.1
15/10/2011 20:41 63.3	16/10/2011 13:51 64.9	17/10/2011 19:01 65.4	19/10/2011 20:11 62.6	21/10/2011 21:21 61.8	23/10/2011 10:31 67.1
15/10/2011 20:46 61.8	16/10/2011 13:56 65.3	17/10/2011 19:06 66.6	19/10/2011 20:16 62.1	21/10/2011 21:26 62.9	23/10/2011 10:36 67.1
15/10/2011 20:51 62.5	16/10/2011 14:01 64.5	17/10/2011 19:11 65.9	19/10/2011 20:21 61.9	21/10/2011 21:31 65.9	23/10/2011 10:41 65.9
15/10/2011 20:56 62.2	16/10/2011 14:06 64.3	17/10/2011 19:16 65.0	19/10/2011 20:26 63.2	21/10/2011 21:36 61.5	23/10/2011 10:46 64.2
15/10/2011 21:01 62.4	16/10/2011 14:11 63.8	17/10/2011 19:21 64.9	19/10/2011 20:31 63.3	21/10/2011 21:41 61.3	23/10/2011 10:51 64.5
15/10/2011 21:06 61.8	16/10/2011 14:16 65.6	17/10/2011 19:26 63.5	19/10/2011 20:36 62.8	21/10/2011 21:46 61.2	23/10/2011 10:56 66.6
15/10/2011 21:11 61.9	16/10/2011 14:21 64.3	17/10/2011 19:31 65.4	19/10/2011 20:41 62.6	21/10/2011 21:51 62.1	23/10/2011 11:01 67.7
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

23/10/2011 18:41 59.8	25/10/2011 19:51 62.7	27/10/2011 21:01 62.3	28/9/2011 5:56 58.4	29/9/2011 23:06 61.2	1/10/2011 0:16 61.0
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23/10/2011 22:51 60.7	26/10/2011 20:01 66.2	28/9/2011 0:56 61.1	29/9/2011 2:06 65.0	30/9/2011 3:16 57.0	1/10/2011 4:26 58.9
23/10/2011 22:56 62.4	26/10/2011 20:06 66.5	28/9/2011 1:01 59.6	29/9/2011 2:11 62.2	30/9/2011 3:21 57.0	1/10/2011 4:31 58.6
24/10/2011 19:01 62.2	26/10/2011 20:11 66.9	28/9/2011 1:06 59.3	29/9/2011 2:16 65.9	30/9/2011 3:26 56.9	1/10/2011 4:36 58.3
24/10/2011 19:06 62.8	26/10/2011 20:16 66.1	28/9/2011 1:11 59.2	29/9/2011 2:21 64.1	30/9/2011 3:31 56.5	1/10/2011 4:41 58.5
24/10/2011 19:11 62.1	26/10/2011 20:21 66.9	28/9/2011 1:16 59.1	29/9/2011 2:26 61.1	30/9/2011 3:36 57.9	1/10/2011 4:46 58.1
24/10/2011 19:16 61.8	26/10/2011 20:26 66.6	28/9/2011 1:21 58.1	29/9/2011 2:31 62.3	30/9/2011 3:41 56.9	1/10/2011 4:51 58.3
24/10/2011 19:21 63.0	26/10/2011 20:31 66.4	28/9/2011 1:26 58.1	29/9/2011 2:36 64.3	30/9/2011 3:46 56.8	1/10/2011 4:56 58.4
24/10/2011 19:26 61.0	26/10/2011 20:36 65.9	28/9/2011 1:31 57.9	29/9/2011 2:41 64.6	30/9/2011 3:51 57.4	1/10/2011 5:01 58.2
24/10/2011 19:31 63.1	26/10/2011 20:41 65.9	28/9/2011 1:36 58.1	29/9/2011 2:46 61.6	30/9/2011 3:56 56.8	1/10/2011 5:06 58.3
24/10/2011 19:36 61.8	26/10/2011 20:46 66.4	28/9/2011 1:41 58.3	29/9/2011 2:51 63.3	30/9/2011 4:01 55.9	1/10/2011 5:11 58.4
24/10/2011 19:41 61.3	26/10/2011 20:51 65.6	28/9/2011 1:46 57.5	29/9/2011 2:56 62.4	30/9/2011 4:06 58.1	1/10/2011 5:16 58.9
24/10/2011 19:46 61.2	26/10/2011 20:56 66.2	28/9/2011 1:51 58.0	29/9/2011 3:01 59.8	30/9/2011 4:11 56.1	1/10/2011 5:21 59.1
24/10/2011 19:51 61.7	26/10/2011 21:01 66.2	28/9/2011 1:56 57.9	29/9/2011 3:06 59.5	30/9/2011 4:16 56.2	1/10/2011 5:26 58.5
24/10/2011 19:56 62.2	26/10/2011 21:06 65.6	28/9/2011 2:01 57.0	29/9/2011 3:11 60.7	30/9/2011 4:21 57.3	1/10/2011 5:31 59.1
24/10/2011 20:01 62.5	26/10/2011 21:11 64.3	28/9/2011 2:06 56.4	29/9/2011 3:16 60.9	30/9/2011 4:26 57.0	1/10/2011 5:36 58.8
24/10/2011 20:06 61.7	26/10/2011 21:16 62.1	28/9/2011 2:11 57.0	29/9/2011 3:21 60.7	30/9/2011 4:31 56.6	1/10/2011 5:41 58.8
24/10/2011 20:11 62.7	26/10/2011 21:21 62.1	28/9/2011 2:16 57.1	29/9/2011 3:26 60.0	30/9/2011 4:36 56.5	1/10/2011 5:46 59.8
24/10/2011 20:16 61.8	26/10/2011 21:26 62.0	28/9/2011 2:21 57.5	29/9/2011 3:31 61.5	30/9/2011 4:41 57.5	1/10/2011 5:51 59.2
24/10/2011 20:21 62.7	26/10/2011 21:31 61.9	28/9/2011 2:26 56.2	29/9/2011 3:36 62.2	30/9/2011 4:46 56.8	1/10/2011 5:56 59.2
24/10/2011 20:26 62.0	26/10/2011 21:36 62.3	28/9/2011 2:31 56.8	29/9/2011 3:41 63.2	30/9/2011 4:51 56.9	1/10/2011 6:01 59.8
24/10/2011 20:31 62.5	26/10/2011 21:41 62.5	28/9/2011 2:36 56.9	29/9/2011 3:46 62.5	30/9/2011 4:56 57.1	1/10/2011 6:06 59.8
24/10/2011 20:36 62.3	26/10/2011 21:46 61.5	28/9/2011 2:41 56.4	29/9/2011 3:51 62.9	30/9/2011 5:01 56.4	1/10/2011 6:11 60.2
24/10/2011 20:41 63.2	26/10/2011 21:51 61.4	28/9/2011 2:46 56.6	29/9/2011 3:56 61.4	30/9/2011 5:06 57.4	1/10/2011 6:16 60.1
24/10/2011 20:46 62.0	26/10/2011 21:56 61.4	28/9/2011 2:51 56.5	29/9/2011 4:01 62.6	30/9/2011 5:11 57.2	1/10/2011 6:21 60.1
24/10/2011 20:51 62.3	26/10/2011 22:01 61.1	28/9/2011 2:56 56.4	29/9/2011 4:06 60.4	30/9/2011 5:16 57.9	1/10/2011 6:26 60.4
24/10/2011 20:56 61.9	26/10/2011 22:06 60.9	28/9/2011 3:01 55.4	29/9/2011 4:11 60.0	30/9/2011 5:21 57.0	1/10/2011 6:31 59.9
24/10/2011 21:01 61.5	26/10/2011 22:11 61.7	28/9/2011 3:06 56.1	29/9/2011 4:16 65.0	30/9/2011 5:26 58.9	1/10/2011 6:36 61.1
24/10/2011 21:06 62.1	26/10/2011 22:16 61.0	28/9/2011 3:11 56.8	29/9/2011 4:21 61.7	30/9/2011 5:31 58.6	1/10/2011 6:41 61.9
24/10/2011 21:11 61.5	26/10/2011 22:21 61.5	28/9/2011 3:16 55.4	29/9/2011 4:26 64.1	30/9/2011 5:36 58.1	1/10/2011 6:46 61.7
24/10/2011 21:16 62.1	26/10/2011 22:26 61.0	28/9/2011 3:21 56.2	29/9/2011 4:31 59.5	30/9/2011 5:41 59.2	1/10/2011 6:51 61.7

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

2/10/2011 1:26	58.9	3/10/2011 2:36	57.0	4/10/2011 3:46	56.6	5/10/2011 4:56	58.6	6/10/2011 6:06	59.9	7/10/2011 23:16	61.0
2/10/2011 1:31	58.8	3/10/2011 2:41	57.0	4/10/2011 3:51	56.1	5/10/2011 5:01	59.6	6/10/2011 6:11	59.1	7/10/2011 23:21	61.5
2/10/2011 1:36	59.1	3/10/2011 2:46	57.6	4/10/2011 3:56	57.1	5/10/2011 5:06	59.7	6/10/2011 6:16	59.5	7/10/2011 23:26	61.8
2/10/2011 1:41	59.0	3/10/2011 2:51	57.0	4/10/2011 4:01	56.7	5/10/2011 5:11	59.7	6/10/2011 6:21	60.8	7/10/2011 23:31	61.8
2/10/2011 1:46	59.5	3/10/2011 2:56	56.7	4/10/2011 4:06	56.9	5/10/2011 5:16	58.3	6/10/2011 6:26	61.2	7/10/2011 23:36	62.8
2/10/2011 1:51	58.9	3/10/2011 3:01	56.0	4/10/2011 4:11	56.4	5/10/2011 5:21	58.6	6/10/2011 6:31	61.1	7/10/2011 23:41	61.6
2/10/2011 1:56	58.9	3/10/2011 3:06	56.2	4/10/2011 4:16	56.8	5/10/2011 5:26	58.6	6/10/2011 6:36	62.3	7/10/2011 23:46	60.8
2/10/2011 2:01	58.8	3/10/2011 3:11	56.7	4/10/2011 4:21	56.5	5/10/2011 5:31	58.9	6/10/2011 6:41	61.7	7/10/2011 23:51	61.8
2/10/2011 2:06	58.3	3/10/2011 3:16	56.5	4/10/2011 4:26	56.1	5/10/2011 5:36	58.6	6/10/2011 6:46	62.1	7/10/2011 23:56	61.3
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2/10/2011 2:16	58.2	3/10/2011 3:26	56.0	4/10/2011 4:36	56.6	5/10/2011 5:46	58.6	6/10/2011 6:56	63.1	8/10/2011 0:06	61.2
2/10/2011 2:21	58.1	3/10/2011 3:31	56.2	4/10/2011 4:41	56.2	5/10/2011 5:51	59.3	6/10/2011 7:01	60.8	8/10/2011 0:11	61.1
2/10/2011 2:26	58.2	3/10/2011 3:36	56.6	4/10/2011 4:46	56.6	5/10/2011 5:56	58.9	6/10/2011 7:06	61.0	8/10/2011 0:16	61.3
2/10/2011 2:31	58.3	3/10/2011 3:41	56.2	4/10/2011 4:51	56.9	5/10/2011 6:01	59.1	6/10/2011 7:11	60.7	8/10/2011 0:21	61.9
2/10/2011 2:36	58.4	3/10/2011 3:46	56.4	4/10/2011 4:56	57.1	5/10/2011 6:06	60.6	6/10/2011 7:16	61.4	8/10/2011 0:26	60.6
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2/10/2011 2:46	58.3	3/10/2011 3:56	56.4	4/10/2011 5:06	58.8	5/10/2011 6:16	59.3	6/10/2011 7:26	61.0	8/10/2011 0:36	60.7
2/10/2011 2:51	58.6	3/10/2011 4:01	55.8	4/10/2011 5:11	56.6	5/10/2011 6:21	60.1	6/10/2011 7:31	61.6	8/10/2011 0:41	60.0
2/10/2011 2:56	58.2	3/10/2011 4:06	57.0	4/10/2011 5:16	57.5	5/10/2011 6:26	60.1	6/10/2011 7:36	61.2	8/10/2011 0:46	59.7
2/10/2011 3:01	57.9	3/10/2011 4:11	56.0	4/10/2011 5:21	57.4	5/10/2011 6:31	59.6	6/10/2011 7:41	60.8	8/10/2011 0:51	60.2
2/10/2011 3:06	58.3	3/10/2011 4:16	56.0	4/10/2011 5:26	57.1	5/10/2011 6:36	60.9	6/10/2011 7:46	60.7	8/10/2011 0:56	61.9
2/10/2011 3:11	57.8	3/10/2011 4:21	56.6	4/10/2011 5:31	58.5	5/10/2011 6:41	62.3	6/10/2011 7:51	61.2	8/10/2011 1:01	59.4
2/10/2011 3:16	57.8	3/10/2011 4:26	56.3	4/10/2011 5:36	58.9	5/10/2011 6:46	60.7	6/10/2011 7:56	60.3	8/10/2011 1:06	59.7
2/10/2011 3:21	57.7	3/10/2011 4:31	56.0	4/10/2011 5:41	59.3	5/10/2011 6:51	60.9	7/10/2011 0:01	60.1	8/10/2011 1:11	59.7
2/10/2011 3:26	57.3	3/10/2011 4:36	55.9	4/10/2011 5:46	59.2	5/10/2011 6:56	61.1	7/10/2011 0:06	61.1	8/10/2011 1:16	59.5
2/10/2011 3:31	58.0	3/10/2011 4:41	56.3	4/10/2011 5:51	59.5	5/10/2011 7:01	61.5	7/10/2011 0:11	60.9	8/10/2011 1:21	60.3
2/10/2011 3:36	58.0	3/10/2011 4:46	55.9	4/10/2011 5:56	59.1	5/10/2011 7:06	60.5	7/10/2011 0:16	60.9	8/10/2011 1:26	59.5
2/10/2011 3:41	57.5	3/10/2011 4:51	56.8	4/10/2011 6:01	59.3	5/10/2011 7:11	61.4	7/10/2011 0:21	60.7	8/10/2011 1:31	59.5
2/10/2011 3:46	58.0	3/10/2011 4:56	56.6	4/10/2011 6:06	60.4	5/10/2011 7:16	61.0	7/10/2011 0:26	60.4	8/10/2011 1:36	59.3
2/10/2011 3:51	59.2	3/10/2011 5:01	56.8	4/10/2011 6:11	60.0	5/10/2011 7:21	60.6	7/10/2011 0:31	60.9	8/10/2011 1:41	60.1
2/10/2011 3:56	57.6	3/10/2011 5:06	58.1	4/10/2011 6:16	60.2	5/10/2011 7:26	60.9	7/10/2011 0:36	59.7	8/10/2011 1:46	58.5
2/10/2011 4:01	58.7	3/10/2011 5:11	57.4	4/10/2011 6:21	60.9	5/10/2011 7:31	60.3	7/10/2011 0:41	59.5	8/10/2011 1:51	59.1
2/10/2011 4:06	57.7	3/10/2011 5:16	57.6	4/10/2011 6:26	61.5	5/10/2011 7:36	61.6	7/10/2011 0:46	59.0	8/10/2011 1:56	59.2
2/10/2011 4:11	57.7	3/10/2011 5:21	57.5	4/10/2011 6:31	61.8	5/10/2011 7:41	60.7	7/10/2011 0:51	59.0	8/10/2011 2:01	59.0
2/10/2011 4:16	57.2	3/10/2011 5:26	58.1	4/10/2011 6:36	62.2	5/10/2011 7:46	60.7	7/10/2011 0:56	59.6	8/10/2011 2:06	59.1
2/10/2011 4:21	57.3	3/10/2011 5:31	58.8	4/10/2011 6:41	62.3	5/10/2011 7:51	60.1	7/10/2011 1:01	59.0	8/10/2011 2:11	59.3
2/10/2011 4:26	58.5	3/10/2011 5:36	60.7	4/10/2011 6:46	62.6	5/10/2011 7:56	60.4	7/10/2011 1:06	58.7	8/10/2011 2:16	60.0
2/10/2011 4:31	57.8	3/10/2011 5:41	61.1	4/10/2011 6:51	62.6	6/10/2011 0:01	60.5	7/10/2011 1:11	59.6	8/10/2011 2:21	58.5
2/10/2011 4:36	57.4	3/10/2011 5:46	60.5	4/10/2011 6:56	63.0	6/10/2011 0:06	60.2	7/10/2011 1:16	59.1	8/10/2011 2:26	58.6
2/10/2011 4:41	57.5	3/10/2011 5:51	60.0	4/10/2011 7:01	62.5	6/10/2011 0:11	60.8	7/10/2011 1:21	58.3	8/10/2011 2:31	58.5
2/10/2011 4:46	57.3	3/10/2011 5:56	58.4	4/10/2011 7:06	62.2	6/10/2011 0:16	60.2	7/10/2011 1:26	58.2	8/10/2011 2:36	58.7
2/10/2011 4:51	57.6	3/10/2011 6:01	59.4	4/10/2011 7:11	62.2	6/10/2011 0:21	59.7	7/10/2011 1:31	58.0	8/10/2011 2:41	58.1
2/10/2011 4:56	58.7	3/10/2011 6:06	60.1	4/10/2011 7:16	62.2	6/10/2011 0:26	60.2	7/10/2011 1:36	59.6	8/10/2011 2:46	58.4
2/10/2011 5:01	57.4	3/10/2011 6:11	61.3	4/10/2011 7:21	62.1	6/10/2011 0:31	60.6	7/10/2011 1:41	58.3	8/10/2011 2:51	58.8
2/10/2011 5:06	58.1	3/10/2011 6:16	60.3	4/10/2011 7:26	62.6	6/10/2011 0:36	59.7	7/10/2011 1:46	57.9	8/10/2011 2:56	58.0
2/10/2011 5:11	58.5	3/10/2011 6:21	60.7	4/10/2011 7:31	61.9	6/10/2011 0:41	58.7	7/10/2011 1:51	57.7	8/10/2011 3:01	58.2
2/10/2011 5:16	58.3	3/10/2011 6:26	61.2	4/10/2011 7:36	62.5	6/10/2011 0:46	59.4	7/10/2011 1:56	58.0	8/10/2011 3:06	58.0
2/10/2011 5:21	59.9	3/10/2011 6:31	61.6	4/10/2011 7:41	61.5	6/10/2011 0:51	58.9	7/10/2011 2:01	57.4	8/10/2011 3:11	59.1
2/10/2011 5:26	61.4	3/10/2011 6:36	62.3	4/10/2011 7:46	61.1	6/10/2011 0:56	59.0	7/10/2011 2:06	58.1	8/10/2011 3:16	58.9
2/10/2011 5:31	57.6	3/10/2011 6:41	62.1	4/10/2011 7:51	61.6	6/10/2011 1:01	59.0	7/10/2011 2:11	57.2	8/10/2011 3:21	57.4
2/10/2011 5:36	57.8	3/10/2011 6:46	62.5	4/10/2011 7:56	61.6	6/10/2011 1:06	58.5	7/10/2011 2:16	58.3	8/10/2011 3:26	57.8
2/10/2011 5:41	57.8	3/10/2011 6:51	62.6	5/10/2011 0:01	61.5	6/10/2011 1:11	58.2	7/10/2011 2:21	57.2	8/10/2011 3:31	57.6
2/10/2011 5:46	58.1	3/10/2011 6:56	63.2	5/10/2011 0:06	61.7	6/10/2011 1:16	58.4	7/10/2011 2:26	57.1	8/10/2011 3:36	57.2
2/10/2011 5:51	58.5	3/10/2011 7:01	62.2	5/10/2011 0:11	61.4	6/10/2011 1:21	58.3	7/10/2011 2:31	57.1	8/10/2011 3:41	58.9
2/10/2011 5:56	60.2	3/10/2011 7:06	62.0	5/10/2011 0:16	61.6	6/10/2011 1:26	58.8	7/10/2011 2:36	57.5	8/10/2011 3:46	57.3
2/10/2011 6:01	61.3	3/10/2011 7:11	62.1	5/10/2011 0:21	61.1	6/10/2011 1:31	58.0	7/10/2011 2:41	56.7	8/10/2011 3:51	57.6
2/10/2011 6:06	60.6	3/10/2011 7:16	62.1	5/10/2011 0:26	61.0	6/10/2011 1:36	58.0	7/10/2011 2:46	57.0	8/10/2011 3:56	57.9
2/10/2011 6:11	60.8	3/10/2011 7:21	61.6	5/10/2011 0:31	61.1	6/10/2011 1:41	58.8	7/10/2011 2:51	57.0	8/10/2011 4:01	57.2
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2/10/2011 6:21	60.6	3/10/2011 7:31	61.9	5/10/2011 0:41	60.7	6/10/2011 1:51	57.4	7/10/2011 3:01	55.6	8/10/2011 4:11	58.2
2/10/2011 6:26	59.9	3/10/2011 7:36	61.9	5/10/2011 0:46	60.7	6/10/2011 1:56	56.8	7/10/2011 3:06	57.5	8/10/2011 4:16	57.3
2/10/2011 6:31	61.6	3/10/2011 7:41	62.1	5/10/2011 0:51	61.3	6/10/2011 2:01	57.3	7/10/2011 3:11	56.2	8/10/2011 4:21	57.2
2/10/2011 6:36	62.7	3/10/2011 7:46	61.6	5/10/2011 0:56	59.9	6/10/2011 2:06	57.1	7/10/2011 3:16	55.9	8/10/2011 4:26	58.0
2/10/2011 6:41	60.6	3/10/2011 7:51	62.3	5/10/2011 1:01	60.0	6/10/2011 2:11	58.0	7/10/2011 3:21	55.4	8/10/2011 4:31	57.3
2/10/2011 6:46	60.5	3/10/2011 7:56	61.2	5/10/2011 1:06	60.0	6/10/2011 2:16	56.8	7/10/2011 3:26	56.7	8/10/2011 4:36	56.6
2/10/2011 6:51	60.7	4/10/2011 0:01	61.2	5/10/2011 1:11	60.3	6/10/2011 2:21	56.4	7/10/2011 3:31	57.7	8/10/2011 4:41	62.1
2/10/2011 6:56	60.7	4/10/2011 0:06	61.1	5/10/2011 1:16	59.7	6/10/2011 2:26	56.5	7/10/2011 3:36	56.2	8/10/2011 4:46	57.2
2/10/2011 7:01	61.4	4/10/2011 0:11	61.2	5/10/2011 1:21	59.6	6/10/2011 2:31	57.1	7/10/2011 3:41	56.6	8/10/2011 4:51	57.6
2/10/2011 7:06	60.8	4/10/2011 0:16	61.4	5/10/2011 1:26	60.2	6/10/2011 2:36	55.6	7/10/2011 3:46	56.3	8/10/2011 4:56	57.8
2/10/2011 7:11	60.7	4/10/2011 0:21	61.6	5/10/2011 1:31	60.2	6/10/2011 2:41	56.2	7/10/2011 3:51	56.7	8/10/2011 5:01	56.5
2/10/2011 7:16	60.9	4/10/2011 0:26	60.9	5/10/2011 1:36	60.8	6/10/2011 2:46	56.9	7/10/2011 3:56	55.7	8/10/2011 5:06	58.2

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

9/10/2011 0:26	60.3	10/10/2011 1:36	57.5	11/10/2011 2:46	59.6	12/10/2011 3:56	58.5	13/10/2011 5:06	58.4	14/10/2011 6:16	61.7
9/10/2011 0:31	60.8	10/10/2011 1:41	57.3	11/10/2011 2:51	59.1	12/10/2011 4:01	57.5	13/10/2011 5:11	57.6	14/10/2011 6:21	62.2
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

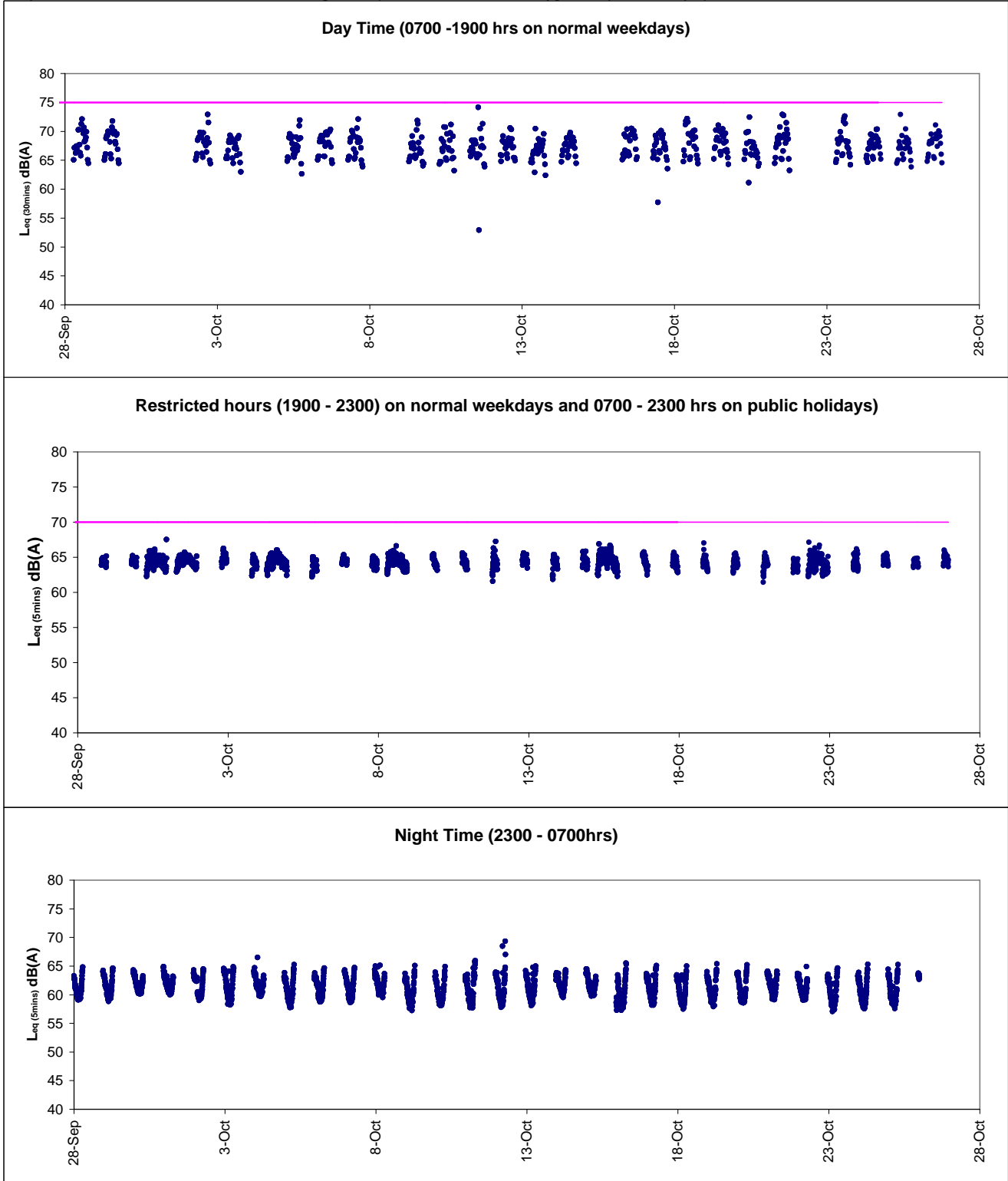
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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23/10/2011 0:06	60.9	24/10/2011 1:16	57.8	25/10/2011 2:26	55.8	26/10/2011 3:36	55.6	27/10/2011 4:46	56.3
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23/10/2011 4:56	56.8	24/10/2011 6:06	59.3	25/10/2011 23:16	60.7	27/10/2011 0:26	61.1		
23/10/2011 5:01	57.9	24/10/2011 6:11	59.0	25/10/2011 23:21	60.6	27/10/2011 0:31	61.5		
23/10/2011 5:06	56.9	24/10/2011 6:16	59.4	25/10/2011 23:26	60.3	27/10/2011 0:36	60.8		
23/10/2011 5:11	57.3	24/10/2011 6:21	60.3	25/10/2011 23:31	60.7	27/10/2011 0:41	60.5		
23/10/2011 5:16	57.3	24/10/2011 6:26	61.1	25/10/2011 23:36	60.9	27/10/2011 0:46	60.3		
23/10/2011 5:21	56.9	24/10/2011 6:31	61.6	25/10/2011 23:41	60.3	27/10/2011 0:51	60.4		
23/10/2011 5:26	58.9	24/10/2011 6:36	61.5	25/10/2011 23:46	61.3	27/10/2011 0:56	60.5		
23/10/2011 5:31	58.8	24/10/20							

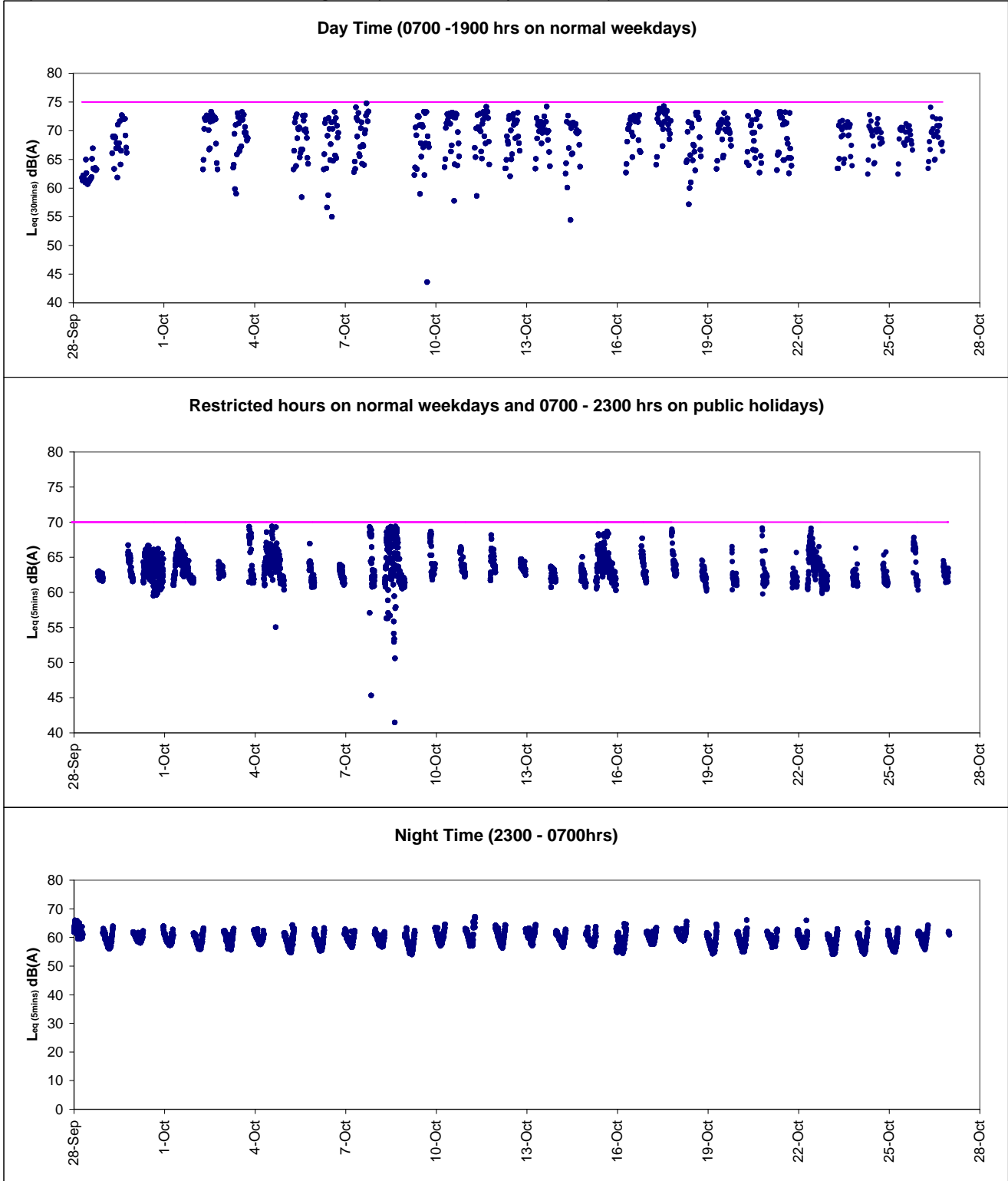


Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)





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	<ol style="list-style-type: none"> 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) 	<ol style="list-style-type: none"> 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) 	<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; 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) 	<ol style="list-style-type: none"> 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 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N069	7-Oct-11	21:12	M1a - Harbour Road Sports Centre	71	Leq(5-min)	when one documented complaint was received.	70	<p>Possible reason: Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.</p> <p>Action taken / to be taken: Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the baseline noise level at this monitoring station.</p> <p>Remarks / Other Obs: No construction work for Contract no. HK/2009/02 was conducted during the measurement; It is concluded that the exceedance was not due to the Project.</p>



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N071	11-Oct-11	8:16	M7e - IFC-Eastern End of Prodiom	77	Leq(30-min)	when one documented complaint was received.	75	<p>Possible reason: Excavation by hydraulic extractor, drilling by drill rig and breaking works for TTA stage 3 in front of IFC were conducted during monitoring</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedance.</p> <p>The noise levels of repeat-measurement at the same location as below: 11 October 2011 08:15 77 dB (A) Investigation found that the repeat measurement was exceeded the limit level of construction noise criteria 75 dB (A).</p> <p>Immediate notification was given to Contractor of HY/2009/18, RSS and IEC when the exceedances were recorded.</p> <p>During the noise monitoring on 11 October 2011, excavation by hydraulic extractor, drilling by drill rig and breaking works for TTA stage 3 in front of IFC and no abnormal work were observed through out the period of noise monitoring. The extended acoustic lining on the top of noise barriers were not erected during operations. Contractor had suspended the works after received the notification on the same day to review the plant operations.</p> <p>Regarding to the noise exceedance recorded, the Contractor was advised to properly erect the acoustic lining on top of the noise barriers as far as practicable.</p> <p>Contractor explained that due to the Strong Monsoon Signal was in force during the monitoring, fully erection of the noise barriers were not practicable which follows their safety management plan.</p> <p>Additional monitoring was conducted on 13 October 2011 at 14:20. Excavation by hydraulic extractor operated with fully erected moveable noise barrier, drilling by drill rig and breaking works for TTA stage 3 in front of IFC were observed during noise monitoring. No further exceedance was recorded after the mitigation measures were implemented.</p> <p>The noise levels of the same location as below: 13 October 2011 14:20 73 dB (A)</p> <p>Exceedance caused by excavation, drilling and breaking works in which it was conducted near the monitoring station and noise barriers were not fully erected during excavation works while Strong Monsoon Signal was in force during the monitoring. The noise level recorded at 14:20 on 13 October 2011 reduced to within the limit level when the works were conducted with fully erected noise barriers. The contractor was reminded to review the design of noise barriers for the noisy plants. Moreover, they were also reminded to follow the recommended mitigation measures in EIA "Central - Wan Chai Bypass and Island Eastern Corridor Link" section 4.7. Mitigation of adverse environmental impacts for construction noise.</p> <p>Remarks / Other Obs: The limit level exceedance was due to excavation, drilling and breaking works. Further inspection of the implementation of the mitigation measures that were recommended in EIA shall be conducted in scheduled noise monitoring date and site inspection.</p>



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N070	25-Oct-11	21:55	M1a - Harbour Road Sports Centre	71	Leq(5-min)	when one documented complaint was received.	70	<p>Possible reason: Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.</p> <p>Action taken / to be taken: Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the baseline noise level at this monitoring station.</p> <p>Remarks / Other Obs: No construction work for Contract no. HK/2009/02 was conducted during the measurement; It is concluded that the exceedance was not due to the Project.</p>



Appendix 9.1

Complaint Log

**Environmental Complaints Log**

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed that the notice was prepared by Victoria Centre 'a Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm Monday to Saturday except Public Holidays and Sundays. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. 4) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	1) It was referred by AECOM to ET on 8 August 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) With reference to the construction noise monitoring at Victoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring 4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 25 July and	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	4 August 2011 during daytime and evening time period while breaking and excavation works were observed during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	07/08/2011				4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011. 5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. <i>Remarks: There will be counted as two complaints in this complaint log.</i>	
110730	30/07/2011	Mr. Tsui by ICC no. 1-305074350	Central	Construction noise generated by operations of Central-Interchange which is near the spa room at Four-Season Hotel. Also, the complaint enquired the commencement time of the construction on Saturday.	1) It was referred by AECOM to ET on 1 August 2011. 2) RSS confirmed that noisy plants from 2 vibratory hammers have been conducted in alternating manner for piling and drilling works for diaphragm wall construction. 3) With reference to the construction noise monitoring at IFC Western End of Podium, no exceedance was recorded on 4 August 2011 during monitoring while sheet piling works were undertaken during monitoring. 4) In order to reduce the noise impact to nearby noise sensitive receivers, Contractor has been implemented the following noise mitigation measures: - Erection of acoustic lining at the hoarding next to Four Seasons Hotel; - Temporary noise barrier with extended acoustic lining; - Reduced in plant such that only have one vibration hammer operating at the west side near Four	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Seasons Hotel instead of 2 5) In conclusion, it was related to the construction works under Contract HY/2009/18 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) It was referred by AECOM to ET on 17 August 2011. 2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint. 3) Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. 4) Contractors were advised to relocate the loose materials away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	Closed
110817	17/08/2011	ICC no. 1-307657681	North Point	Visual impact generated by light from a large amount of spot-lights on the barge during mid-night nearby City Garden.	1) It was referred by AECOM to ET on 23 August 2011 2) RSS confirmed that some non-essential lights were turned on during night-time period which caused the nuisance to the nearby residents. In addition, absence of lighting shields at flood lights results in visual glare to the complaint at night-time. 3) Follow-up action had been taken by contractor that switches off all non-essential lights to minimized nuisance to the nearby residents. The complainant satisfied to the practice and no further complaint was received after that.	Close
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1	1) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. 2) The Excavator mounted breaker at Convention Avenue	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				reclamation area.	and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period. 3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint. 4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening. 5) Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed. 6) Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1) It was referred by AECOM to ET on 29 August 2011 2) Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. 3) The pump is located on the site area of HY/2009/19 4) A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to exclude the outfall. 5) An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project team), contractor of HY/200911 and HY/2009/19 and IEC on 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011. 5) Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 6) In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse come from sea bed from entering the intake. 6) According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying with their expectation. 7) During on-site inspection, floating refuses observed	Waiting RSS respond



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the floating refuses were observed immigrating in the protective zone during investigation</p> <p>8) All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site. It was noted that the intake (land side) is open access to public, so that many activities such as fishing, feeding fish were conducted there even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.</p> <p>9) Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.</p> <p>10) Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection</p>	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	<p>1) RSS notified ET to carry out investigation on 17 October 2011.</p> <p>2) ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site.</p> <p>3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</p> <p>4) Contractor was reminded to enhance regular checking and maintenance to all plants at site.</p> <p>5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.</p>	Closed



Appendix 10.1

Construction Programme of Individual Contracts

Activity Name	Original Duration	Planned Start	Planned Finish	2011				2012				2013				2014				2015				2016		
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
HY/2009/15 - CWB TUNNEL (CBTS SECTION)																										
SUBMISSIONS COMPLYING WITH EPs																										
EM&A Manual (rely on the Master EP's submission EP-364/2009/A Condition 2.5)																										
Baseline Monitoring Report (rely on the Master EP's submission EP-364/2009 Condition 3.3)																										
Monthly EM&A (rely on the masters EP's Submission, EP-364/2009/A Condition 3.4)																										
A dedicated website (rely on the master EP's submission, EP-364/2009/A Condition 4.2)																										
Management organization of main construction companies (FEP Condition 2.6)	1d	02-Oct-10	02-Oct-10																							
Work Schedule (FEP Condition 2.7)	1d	27-Oct-10	27-Oct-10																							
Location Plan (FEP Condition 2.8)	1d	27-Oct-10	27-Oct-10																							
Noise Management plan (FEP Condition 2.9)	1d	27-Oct-10	27-Oct-10																							
Landscape plan (FEP condition 2.10)	1d	31-Jan-11	31-Jan-11																							
EAST VENTILATION ADIT																										
CCT @ Portion 1, 2, 4, 6, 22	1315d	27-Sep-10	03-May-14																							
EV Adit @ Portion 4-Advance Works	526d	27-Sep-10	05-Mar-12																							
EV Adit Portion 1, 2, 6, 22	26d	22-Dec-11	16-Jan-12																							
EV Adit-based on Conforming Design	323d	15-Feb-12	02-Jan-13																							
TCBR1E (TS1 Area)																										
Diaphragm Wall Construction (incl. SI, & tests after completion)	107d	26-Apr-11	10-Aug-11																							
Excavation & Lateral Support, ELS	99d	16-Jul-11	22-Oct-11																							
Cut & Cover Tunnel Construction (incl. backfill)	78d	22-Oct-11	07-Jan-12																							
OHVD and Cable Trough (access from Portion 22)	76d	18-Dec-13	03-Mar-14																							
TCBR2 + TCBR3 (TS2 Area)																										
Diaphragm Wall Construction	118d	06-Jul-12	31-Oct-12																							
Excavation & Lateral Support, ELS	248d	06-Jul-12	10-Mar-13																							
Cut & Cover Tunnel Construction	164d	11-Mar-13	21-Aug-13																							
OHVD Cable Trough (Access from Portion 22)	150d	05-Aug-13	01-Jan-14																							
TCBR1W (TS4 Area)																										
Diaphragm Wall Construction	148d	28-Jun-11	22-Nov-11																							
Excavation & Lateral Support, ELS	319d	28-Jun-11	11-May-12																							
Landing Steps - Demolition/Reconstruct as footpath	40d	28-Jun-11	23-Aug-11																							

◆ Milestone
◆ Milestone
■ Remaining Work
■ Critical Remaining Work
■ Actual Work

1 of 2

China State Construction Engineering (Hong Kong) Ltd.
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel
(CBTS Section)

Prepared by William Caluza			
Date	Revision	Checked	Approved
14-Mar-11	Revision C	ST	KL
	File: 0001a		
	(Layout:HY/2009/15: CWB - Summary)		

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

Activity Name	Original Duration	Planned Start	Planned Finish	2011				2012				2013				2014				2015				2016		
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Rock Excavation	235d	25-Apr-12	15-Dec-12																							
ME4-Diaphragm Wall	114d	10-May-12	19-Oct-12																							
AS Logistics Area for Mined Tunneling Works	174d	01-Jun-12	07-Feb-13																							
ME4-ELS Works	212d	01-Jun-12	02-Apr-13																							
SCL Entrusted Works	291d	18-Jul-12	09-Sep-13																							
Cut & Cover Tunnel Construction (w/o TS4 +)	111d	17-Dec-12	06-Apr-13																							
ME4-RC Structure	146d	28-Jan-13	21-Aug-13																							
OHVD and Cable Trough (Access from TZ5/TPCWAE/TPCWAW)	180d	17-Jun-13	13-Dec-13																							
MINED TUNNEL																										
CHT Protection Works @ location A, B, C	342d	27-Sep-10	01-Feb-12																							
Tunnel works from West Portal (access from TPCWAE& TZ5)	418d	12-Mar-12	30-Oct-13																							
Tunnel Works from East Portal (Access from TS4 Area)	214d	30-Mar-12	01-Feb-13																							
Tunnel OHVD & Cable Trough	384d	02-Dec-13	22-May-15																							
TPCWAE																										
Drainage Diversion works along Hung Hing Road (Portion 19)	176d	15-Oct-10	24-Jun-11																							
Diaphragm Wall Construction	147d	20-May-11	13-Oct-11																							
Excavation & Lateral Support, ELS	421d	20-May-11	13-Jul-12																							
Rock Excavation	206d	12-Mar-12	03-Oct-12																							
AS Logistics Area for Mined Tunneling works	342d	12-May-12	18-Apr-13																							
Cut & Cover Tunnel Construction	130d	28-Jan-13	06-Jun-13																							
OHVD and Cable Trough (Access from TZ5/TPCWAW)	182d	18-Feb-15	18-Aug-15																							
TPCWAW & PORTION 11																										
Diaphragm Wall Construction + Portion 11	222d	25-Oct-13	03-Jun-14																							
Excavation & Lateral Support, ELS	478d	25-Oct-13	14-Feb-15																							
Cut & Cover Tunnel Construction	143d	30-Dec-14	21-May-15																							
OHVD and Cable Trough Installation (Access from Portion 11)	235d	22-May-15	11-Jan-16																							

- ◆ Milestone
- ◆ Milestone
- Remaining Work
- Critical Remaining Work
- Actual Work

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China State Construction Engineering (Hong Kong) Ltd.

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel

(CBTS Section)

Prepared by William Caluza			
Date	Revision	Checked	Approved
14-Mar-11	Revision C	ST	KL
	File: 0001a		
	(Layout:HY/2009/15: CWB - Summary)		



Activity ID	Activity Name	Rem Dur	Start	Finish	2011																
					September					October				November				December			
					22	29	05	12	19	26	03	10	17	24	31	07	14	21	28	05	12
0522-2370	Bulkhead BW1-BW7 Grouting for Existing Seawall Rubble Mound	18	01-Feb-12	21-Feb-12																	
0522-2380	Bulkhead BW1-BW7 Guide Wall	12	22-Feb-12	06-Mar-12																	
0522-2390	Bulkhead BW1-BW7 Construction (7 nos@6d - Team 3)	42	07-Mar-12	27-Apr-12																	
0522-2392	Barrette BC40-BC68 & BW1-7 G.I. Prelim Report / Founding Lev	48	14-Jan-12	13-Mar-12																	
0522-2402	Barrette BC40-BC68 & BW1-7 G.I. Final Report / Founding Lev	36	14-Mar-12	27-Apr-12																	
0522-2412	Barrette BC50-BC68 & Bulkhead BW1-7 Testing	24	09-May-12	05-Jun-12																	
05.2.3 - ELS																					
0523-2398	Prepare & Submit Documents as per ETWB TCW No. 15/2005	30	21-Nov-11	24-Dec-11																	
05.3 - Box Culvert T1																					
0530-2940	Watson Road TTM Stage 1	6	03-Oct-11*	10-Oct-11																	
0530-2970	Utility Detection & Protection	12	03-Oct-11	17-Oct-11																	
0530-2980	Bay 4-5 Site Clearance/Formation	6	11-Oct-11	17-Oct-11																	
0530-2990	Bay 4-5 Trench excavation	18	18-Oct-11	07-Nov-11																	
0530-3000	Bay 4-5 Box Culvert Construction	42	08-Nov-11	26-Dec-11																	
0530-3010	Bay 4-5 Road Reinstatement	7	27-Dec-11	03-Jan-12																	
0530-3015	Watson Road TTM Stage 2 - TMLG Approval/Endorsement	21	05-Aug-11 A	15-Oct-11																	
0530-3020	Implement Watson Road TTM Stage 2	3	05-Jan-12	07-Jan-12																	
0530-3030	Bay 1-3 Site Clearance/Formation	3	09-Jan-12	11-Jan-12																	
0530-3040	Bay 1-3 Trench excavation	36	12-Jan-12	25-Feb-12																	
0530-3050	Bay 1-3 Box Culvert Construction	36	06-Feb-12	17-Mar-12																	
0530-3060	Bay 1-3 Road Reinstatement	12	19-Mar-12	31-Mar-12																	
0530-3070	Bay 6A Trench excavation	9	12-Jan-12	21-Jan-12																	
0530-3080	Bay 6A Box Culvert Construction	21	26-Jan-12	18-Feb-12																	
0530-3090	Construct Box Culvert Across Tunnel	48	12-Jan-12	10-Mar-12																	
0530-3100	Divert and Abandon Existing Box Culvert T1	9	19-Mar-12	28-Mar-12																	
0530-3110	Box Culvert T1 at North Side of the Tunnel (outfall)	72	29-Nov-11	23-Feb-12																	
0530-3200	Storm Drainage 1500 Dia. Within Portion X (FEHD)	60	09-Jan-12	21-Mar-12																	
10 - SECTION X OF THE WORKS																					
10.1 - E/B Bridges (Bridge D, E and F)																					
10.1.1 - Marine Pier Construction																					
Pier F03 to F15																					
1011-1270	Predrilling pier F7	0	30-Jul-11 A	27-Aug-11 A																	
1011-1280	Predrilling pier F8	0	27-Aug-11 A	15-Sep-11 A																	
1011-1285	Portion VI Marine Piles G.I. Final Report / Founding Level	14	12-Aug-11 A	07-Oct-11																	
1011-1390	Dismantle Pre-drilling Platform pier F7	0	29-Aug-11 A	31-Aug-11 A																	
1011-1400	Dismantle Pre-drilling Platform pier F8	0	17-Sep-11 A	19-Sep-11 A																	
1011-1402	Extract Existing Dolphin Front Pile pier F12	6	27-Jul-11 A	10-Oct-11																	
1011-1405	Remove Existing Dolphin pier F12	6	14-Oct-11	20-Oct-11																	
1011-1410	Extract Existing Dolphin Front Pile pier F11	6	06-Aug-11 A	10-Oct-11																	
1011-1415	Remove Existing Dolphin pier F11	6	18-Oct-11	24-Oct-11																	
1011-1420	Extract Existing Dolphin Front Pile pier F9	9	25-Oct-11	03-Nov-11																	
1011-1425	Remove Existing Dolphin pier F9	9	04-Nov-11	14-Nov-11																	
1011-1430	Extract Existing Dolphin Front Pile pier F10	9	15-Nov-11	24-Nov-11																	
1011-1435	Remove Existing Dolphin pier F10	9	25-Nov-11	05-Dec-11																	

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

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3MRP - Sep 2011 to Dec 2011

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Activity ID	Activity Name	Rem Dur	Start	Finish	2011																
					September					October				November			December				
					22	29	05	12	19	26	03	10	17	24	31	07	14	21	28	05	12
1011-2550	Marine piling preparation works, portion III	6	31-Dec-11	06-Jan-12																	
1011-2560	Erect Pre-drilling Platform pier F2B	8	02-Jan-12	10-Jan-12																	
1011-2570	Erect Pre-drilling Platform pier F2A	8	11-Jan-12	19-Jan-12																	
1011-2580	Erect Pre-drilling Platform pier F1B	8	20-Jan-12	01-Feb-12																	
1011-2590	Erect Pre-drilling Platform pier F1A	8	02-Feb-12	10-Feb-12																	
1011-2600	Pre-drilling pier F2B	10	11-Jan-12	21-Jan-12																	
1011-2610	Pre-drilling pier F2A	20	20-Jan-12	15-Feb-12																	
1011-2620	Pre-drilling pier F1B	10	02-Feb-12	13-Feb-12																	
1011-2630	Pre-drilling pier F1A	20	11-Feb-12	05-Mar-12																	
1011-2635	Portion III Marine Pile G.I. Final Report / Founding Level	30	06-Mar-12	12-Apr-12																	
1011-2640	Dismantle Pre-drilling Platform Pier F2B	5	26-Jan-12	31-Jan-12																	
1011-2650	Dismantle Pre-drilling Platform Pier F2A	5	16-Feb-12	21-Feb-12																	
1011-2660	Dismantle Pre-drilling Platform Pier F1B	5	22-Feb-12	27-Feb-12																	
1011-2670	Dismantle Pre-drilling Platform Pier F1A	5	06-Mar-12	10-Mar-12																	
1011-2680	Remove existing dolphin pier F2	6	22-Feb-12	28-Feb-12																	
1011-2690	Remove existing dolphin pier F1	6	12-Mar-12	17-Mar-12																	
1011-2700	Erect marine piling platform pier F2	24	19-Mar-12	18-Apr-12																	
1011-2710	Erect marine piling platform pier F1	24	19-Mar-12	18-Apr-12																	
1011-2720	Dolphin socketed tubular pile pier F2	36	19-Apr-12	31-May-12																	
1011-2730	Dolphin socketed tubular pile pier F1	36	19-Apr-12	31-May-12																	
10.1.2 - Land Pier Construction																					
Abutment D12																					
1012-1070	Abutment D12 Bored Piles E/B Bridge (4 piles)	48	10-May-12	06-Jul-12																	
Pier D08 to D11																					
1012-1010	Site Survey and Setting Out at Portion III	6	31-Dec-11	06-Jan-12																	
1012-1015	Pre-drilling for Pilings (D08 to D12) at III (28 no.) (4set)	27	07-Jan-12	10-Feb-12																	
1012-1020	Portion III Land Pile G.I. Prelim Report / Founding Level	6	11-Feb-12	17-Feb-12																	
1012-1025	Portion III Land Pile G.I. Final Report / Founding Level	24	18-Feb-12	16-Mar-12																	
1012-1030	Pier D08 Bored Piles (6 piles)	72	11-Feb-12	09-May-12																	
1012-1040	Pier D09 Bored Piles (6 piles)	72	11-Feb-12	09-May-12																	
1012-1050	Pier D10 Bored Piles (6 piles)	72	11-Feb-12	09-May-12																	
1012-1060	Pier D11 Bored Piles (6 piles)	72	11-Feb-12	09-May-12																	
1012-1080	Pier D08/09/10/11 Bored Pile Testing	12	10-May-12	23-May-12																	
Pier D05 to D07																					
1012-1260	Pre-drilling for 18 nos Piling at VIIB (2set)	20	08-Aug-11 A	14-Oct-11																	
1012-1265	Portion VIIB Land Pile G.I. Final Report / Founding Level	30	15-Oct-11	18-Nov-11																	
1012-1270	Pier D07 Bored Piles (6 piles)	108	19-Nov-11	27-Mar-12																	
1012-1280	Pier D06 Bored Piles (6 piles)	108	19-Nov-11	27-Mar-12																	
1012-1290	Pier D05 Bored Piles (2 piles)	36	28-Mar-12	12-May-12																	
1012-1300	Pier D05/D06/D07 Bored Piles Testing	18	14-May-12	02-Jun-12																	
10.1.3 - E/B Bridge Construction																					
Bridge D3																					
1013-1000	Design & Procurement of Launching Girder	75	20-Jan-12	23-Apr-12																	
1013-1010	Fabrication & Delivery of Launching Girder	75	24-Apr-12	23-Jul-12																	

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

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Three Month Rolling Programme (21 SEP - 20 DEC 2011)

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Activity ID	Activity Name	Rem Dur	Start	Finish	2011															
					September						October				November				December	
					22	29	05	12	19	26	03	10	17	24	31	07	14	21	28	05
14 - SECTION 14 OF THE WORKS																				
14.1 - Soft Landscape																				
1410-1000	Transplant. of ex. Trees to Nursery & upkeep	1515	31-Dec-11	17-Jan-17																

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

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