



**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**

**- NOVEMBER 2011 -**

**CLIENTS:**

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Department**  
  
**and**  
  
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14 December 2011



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**EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – November 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 28<sup>th</sup> October 2011 to 27<sup>th</sup> November 2011. The cut-off date of reporting is at 27<sup>th</sup> 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 works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work at Man Yiu Street
- Site investigation and pre-drilling works at CR3
- Diaphragm wall construction
- Hoarding erection
- Roadworks at CR3
- Grout curtain

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 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
- Toe grout at WCR1 area
- Shear pin at WCR1 area
- Pumping test at WCR1 area
- King Post at WCR area
- Excavation and lateral support at western Tunnel portion

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
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- D-wall Construction
- Sheet piling for Box Culvert T

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. A limit level exceedance was recorded at M6 - HK Baptist Church Henrietta Secondary School on 31 October 2011 and a limit level exceedance was recorded at M7e - International Finance Centre (Eastern End of Podium) on 15 November 2011 during day time. Moreover, four limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 31 October, 8, 15, 21 November 2011 during restricted hour. A limit level exceedance was recorded at M2b - Noon-day gun area and M7e – International Finance Centre Eastern End of Podium on 21 November 2011 during restricted hour, respectively. After checking contractors' work schedules and investigation found that contractor complied with the requirement in valid CNPs during restricted hours noise monitoring.
- iv. However, the limit level exceedance recorded at M6 - HK Baptist Church Henrietta Secondary School on 31 October 2011 during day time was due to temporary piling for construction of working platform for marine bored piling work by vibratory hammer through out the period of noise monitoring. In addition, the vibratory hammer was observed operating above the road level of IECL. On the other hand, the limit level exceedance recorded at M7e - International Finance Centre (Eastern End of Podium) on 15 November 2011 during day time during day time was due to drilling by drill rig and breaking works for D-wall construction in front of IFC without noise barrier and no abnormal work were observed during monitoring. Both exceedances recorded during day time noise monitoring was considered project related.
- v. An action level exceedance was recorded regarding a noise complaint received on 6 November 2011 in this reporting month.
- vi. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitefield Depot for the piling works in FEHD Whitfield Depot and RTN2 – Tunnel (North Point Section) and Island Eastern Corridor Link. No project related action and limit level exceedance was recorded in the reporting period.

Air Monitoring

- vii. 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 recommenced at Oil Street Community Liaison Centre on 14 November 2011.

Complaints, Notifications of Summons and Successful Prosecutions

- viii. There was two environmental complaints regarding construction noise received on 4 and 6 November 2011. No further complaint was received after follow-up action and investigation in this reporting month.

Site Inspections and Audit

- ix. 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

- x. 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 works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work at Man Yiu Street
- Site investigation and pre-drilling works at CR3
- Diaphragm wall construction
- Hoarding erection
- Roadworks at CR3
- Grout curtain

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 HKCEC1
- Pre-drilling works for CWB at Stage 2
- Pilling works for CWB at Stage 1

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 construction works and ELS at western tunnel portion
- Toe grout, Shear pine, and Pumping test 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
- ELS works 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

- Remove existing dolphin
- 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 Construction
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T
- Marine Piling

## 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 28<sup>th</sup> October to 27<sup>th</sup> November 2011. The cut-off date of reporting is at 27<sup>th</sup> 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	2566 7522
		Sub Agent	Mr. Johnny Wong	9725 5870	2566 7522
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	2634 1626
		Operation Manager	Mr. Lau Yee Ching	9466 3918	
		Construction Manager	Mr Jerry Siu	9493 3664	
		Construction Manager	Mr Ricky Lai	9487 6549	
		Construction Manager	Mr KK Yuen	3498 1213	



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



Party	Role	Post	Name	Contact No.	Contact Fax
		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. 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 works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work at Man Yiu Street
- Site investigation and pre-drilling works at CR3
- Diaphragm wall construction
- Hoarding erection
- Roadworks at CR3
- Grout curtain

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 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
- Toe grout at WCR1 area
- Shear pin at WCR1 area
- Pumping test at WCR1 area
- King Post at WCR area
- Excavation and lateral support at western Tunnel portion

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

- Preparation works and removal of existing marine piles
- Road works at Watson Road
- Fabrication of bored piling platform
- Bored piling
- Ground contamination assessment
- D-wall Construction
- Sheet piling for Box Culvert T

2.4.4. 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 works for Manholes and Intake Culvert Survey
- Excavation of trial pit
- Drainage work at Man Yiu Street
- Site investigation and pre-drilling works at CR3
- Diaphragm wall construction
- Hoarding erection
- Roadworks at CR3
- Grout curtain

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 HKCEC1
- Pre-drilling works for CWB at Stage 2
- Piling works for CWB at Stage 1

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 construction works and ELS at western tunnel portion
- Toe grout, Shear pine, and Pumping test 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

- Remove existing dolphin
- 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 Construction
- Sheet piling for Box Culvert T
- Construction works for Box Culvert T
- Marine Piling

## 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	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Valid

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. The construction works was completed, and the FEP was surrendered by the Contractor on 11 February 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

- 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 3.4** and **Table 3.5**

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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	Expired
	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	16 Sept 2011	20 Sept 2011 to 19 Oct 2012	Valid
	GW-RE0716-11	28 Sept 2011	07 Oct 2011 to 29 Mar 2012	Valid
	GW-RS1094-11	23 Nov 2011	27 Nov 2011 to 26 May 2012	Valid
Discharge Licence	WT00006220- 2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641- 2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134- C3585-01	21 Jan 2010	N/A	Valid

**Table 3.5 Summary of submission status under FEP-02/364/2009**

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 3.6** and **Table 3.7**.

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for 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-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Expire
	GW-RS0377-11	27 April 2011	1 May 2011 to 31 Oct 2011	Expire
	GW-RE0311-11	4 May 2011	5 May 2011 to 31 Oct 2011	Expire
	GW-RS0401-11	3 May 2011	18 May 2011 to 17 Nov 2011	Expire
	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	Expire
	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	Expire
	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	Expire
	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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	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
	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
	GW-RS1028-11	3 Nov 2011	7 Dec 2011 to 6 June 2012	Valid
	GW-RS1052-11	18 Nov 2011	21 Nov 2011 to 18 May 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 3.7 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
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 3.8 and Table 3.9.

**Table 3.8 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	Expired
	GW-RS0878-11	22 Sept 2011	22 Sept 2011 – 28 Oct 2011	Expired
	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 3.9 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 3.10** and **Table 3.11**

**Table 3.10 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
	GW-RS1021-11	4 Nov 2011	10 Nov 2011 to 9 May 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 3.11 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 3.12** and **Table 3.13**.

**Table 3.12 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
Construction Noise Permit (CNP)	GW-RS1097-11	22-Nov-11	07-May-12	Valid

**Table 3.13 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
Condition 2.9	Noise Management Plan(Rev.2)	28-Oct-11

## 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 <sup>TM</sup> 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 (Re-commenced on 14 November 2011)
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. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- 5.1.4. 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 are summarized in **Table 5.2** below:

**Table 5.2 Noise Monitoring Stations for Contract no. HY/2009/18**

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 at M7e during day time on 15 November 2011 in the reporting month. After checking contractor's work schedules and investigation found that drilling by drill rig and breaking works for D-wall construction in front of IFC without noise barrier and no abnormal work were observed through out the period of noise monitoring. As such, the exceedance was considered project related.

- 5.1.6. One non-project related limit level exceedance was recorded on 21 November 2011 during restricted hours. Since traffic noise from Finance Street contributed as a noise source during monitoring and the work for Contract no. HY/2009/18 was complied with the conditions under valid Construction Noise Permit no. GW-RS0993-11 during the measurement. It was considered the exceedance was not project related.

- 5.1.7. 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

- 5.1.8. 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

5.1.9. An action level was recorded on 6 November 2011 due to noise complaint received regarding one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position regarding to Contractor of HK/2009/01.

5.1.10. Four limit level exceedances were recorded at M1a – Harbour Road Sports Centre on 31 October, 8, 15, 21 November 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 and contractor complied with the requirement in valid CNP during restricted hours noise monitoring. 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

5.1.11. 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 divisions 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

5.1.12. No action level and one non-project related limit level exceedance was recorded on 21 November 2011 during restricted hours. Since traffic noise from Victoria Park Road contributed as a noise source during monitoring and the rectification work for Contract no. HY/2009/15 was complied with the conditions under valid Construction Noise Permit no. GW-RS1021-11 during the measurement. It was considered the exceedance was not project related.

5.1.13. 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

5.1.14. 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

- 5.1.15. [No action level and one limit level](#) exceedance was recorded during day time period at M6 on 31 October 2011 during day time was due to temporary piling for construction of working platform for marine bored piling work by vibratory hammer through out the period of noise 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](#)

## 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
CMA1b	Oil Street Community Liaison Centre
CMA2a	Causeway Bay Community Centre

- 5.3.2 Due to lack of electricity supply, 24hr-TSP was rescheduled from 18 November 2011 to 19 November 2011
- 5.3.3 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in **Appendix 5.3**.

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

- 5.3.4 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)

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

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

- 5.3.6 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

- 5.3.7 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in [Appendix 5.3](#).

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

- 5.3.8 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

- 5.3.9 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in [Appendix 5.3](#).

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

- 5.3.10 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

- 5.3.11 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

5.3.12 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 temporary suspended on 18 September 2011. The permission of the installation of HVS at temporary FEHD depot was obtained from the premises owner on early November 2011 and TSP monitoring was recommenced on 14 November 2011.

5.3.13 Due to lack of electricity supply, 24hr-TSP was rescheduled from 18 November 2011 to 19 November 2011

5.3.14 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 <sup>3</sup>	Cumulative Quantity-to-Date, m <sup>3</sup>	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 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

5.4.2. Inert and non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.15**.

**Table 5.15 Details of Waste Disposal for Contract no. HK/2009/01**

Waste Type*	Quantity this month, m <sup>3</sup>	Cumulative-to-Date, m <sup>3</sup>	Disposal / Dumping Grounds
Inert C&D materials disposed	254.20	5228.08	TKO137, TM38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	31.74	139.26	SENT Landfill
Non-inert C&D materials recycled	5484	10463	N/A
Chemical waste disposed	200	1300	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

- 5.4.3. 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 5.16**.

**Table 5.16 Details of Waste Disposal for Contract no. HK/2009/02**

Waste Type*	Quantity this month, m <sup>3</sup>	Cumulative-to-Date, m <sup>3</sup>	Disposal / Dumping Grounds
Inert C&D materials disposed	7,342	57,450	TKO137, TM 38
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	50	91	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

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

**Table 5.17 Details of Waste Disposal for Contract no. HY/2009/18**

Waste Type*	Quantity this month, m <sup>3</sup>	Cumulative-to-Date, m <sup>3</sup>	Disposal / Dumping Grounds
Inert C&D materials disposed	2742.4	9370.1	T.K.O. 137
Inert C&D materials recycled	NIL	58.5	N/A
Non-inert C&D materials disposed	11.9	197.6	SENT Landfill

Waste Type*	Quantity this month, m <sup>3</sup>	Cumulative-to-Date, m <sup>3</sup>	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

- 5.4.5. Inert & Non-inert C&D wastes were 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/2009/15**

Waste Type*	Quantity this month, m <sup>3</sup>	Cumulative-to-Date, m <sup>3</sup>	Disposal / Dumping Grounds
Inert C&D materials disposed	172.2	2459.6	TKO137 FB
	15,281.1	15,281.1	Tuen Mun Area 38
Inert C&D materials recycled	109	413	N/A
Non-inert C&D materials disposed	15.3	77.2	SENT Landfill
Non-inert C&D materials recycled	NIL	61.3	N/A
Chemical waste disposed	NIL	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

- 5.4.6. Only Non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.19**.

**Table 5.19 Details of Waste Disposal for Contract no. HY/2009/19**

Waste Type*	Quantity this month, m <sup>3</sup>	Cumulative-to-Date, m <sup>3</sup>	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	630.954	N/A
Non-inert C&D materials disposed	5.61	13.351	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	0.066	0.1	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. HY/2009/18 – Central – Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

6.1.2. No action level and one project related limit level exceedance was recorded on 15 November 2011 in the reporting month. After checking contractor's work schedules and investigation found that drilling by drill rig and breaking works for D-wall construction in front of IFC without noise barrier and no abnormal work were observed through out the period of noise monitoring.

6.1.3. One non-project related limit level exceedance was recorded on 21 November 2011 during restricted hours. Since traffic noise from Finance Street contributed as a noise source during monitoring and the work for Contract no. HY/2009/18 was complied with the conditions under valid Construction Noise Permit no. GW-RS0993-11 during the measurement. It was considered the exceedance was not project related.

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 limit level and **one action level exceedance was recorded regarding a noise complaint received on 6 November 2011** due to one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position.

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 four limit level exceedances were recorded at M1a – Harbour Road Sports Centre on **31 October, 8, 15, 21 November 2011** during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring and contractor complied with the requirement in valid CNP during restricted hours noise monitoring.

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

6.1.6. No action level and one non-project related limit level exceedance was recorded on 21 November 2011 during restricted hours. Since traffic noise from Victoria Park Road contributed as a noise source during monitoring and the rectification work for Contract no. HY/2009/15 was complied with the conditions under valid Construction Noise Permit no. GW-RS1021-11 during the measurement. It was considered the exceedance was not project related.

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

- 6.1.7. No action level and one project related limit level exceedance was recorded during day time period at M6 on 31 October 2011 during day time was due to temporary piling for construction of working platform for marine bored piling work by vibratory hammer through out the period of noise monitoring.

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

- 6.1.8. 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

- 6.1.9. No exceedance was recorded in the reporting month.

## 6.2 Air Monitoring

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

- 6.2.1. No exceedance was recorded in the reporting month.

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

- 6.2.2. 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

- 6.2.3. 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

- 6.2.4. 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

- 6.2.5. 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

- 6.2.1. No exceedance was recorded in the reporting month.

## 6.3 Review of the Reasons for and the Implications of Non-compliance

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

- 6.3.2. There was exceedance of noise level recorded during day time on 31 October 2011 at M6 regarding to temporary [piling for construction of working platform for marine bored piling work by vibratory hammer through out the period of noise monitoring](#) and 15 November 2011 at M7e that was considered in relation to the [drilling by drill rig and breaking works for D-wall construction in front of IFC without noise barrier](#) during monitoring.

#### **6.4 Summary of action taken in the event of and follow-up on non-compliance**

- 6.4.1. According to the Event and Action Plan stated in Appendix 6.1, repeated measurement for noise monitoring station (M6) would be conducted immediately once Limit Level exceedance recorded in relation to Contract no. HY/2009/19, site investigations would be arranged accordingly to observe and record the sources of the exceedance(s). During the noise monitoring on 31 October 2011, temporary piling for construction of working platform for marine bored piling work by vibratory hammer was observed through out the period of noise monitoring. In addition, the vibratory hammer was observed operating above the road level of IECL. Contractor had suspended the works after received the notification on the same day to review the plant operations. Contractor was advised to decrease the frequency of vibratory hammer operation to reduce the noise level. Additional monitoring was conducted on 3 Nov 2011 at 15:00. Temporary piling work conducted by vibratory hammer with a lower frequency was observed during noise monitoring.
- 6.4.2. Regarding to the noise exceedance recorded at M7e, repeated measurement for noise monitoring station 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 15 November 2011, drilling by drill rig and breaking works for D-wall construction in front of IFC without noise barrier and no abnormal work were observed through out the period of noise monitoring. Contractor had suspended the works after received the notification on the same day to review the plant operations. Contractor was advised to properly erect the noise barriers as far as practicable for the drilling and breaking works. Additional monitoring was conducted on 18 November 2011 at 11:30. Drill rig and breaker operated at the concern area with fully erected moveable noise barrier, drilling by drill rig and breaking works for D-wall construction were observed during noise monitoring.
- 6.4.3. No further exceedance was recorded in the subsequent noise monitoring during non-restricted hours at M6 and M7e. Nevertheless, the effectiveness of remedial actions implemented by the Contractors 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. Monthly EM&A report (October 2011) of Central Reclamation Phase III (CRIII) is outstanding in this reporting month, no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) could be done.
- 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, Seawall block construction, reclamation work and diaphragm wall construction preparation works at TS4; Diaphragm wall construction at TS1 and TPCWAE 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 in the reporting month. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activity were advance filling works at TS4, Diaphragm wall construction at TS1 and TPCWAE TCBR1W, piling works at FEHD Whitfield Depot, sheet piling and pre-drilling works at Central, marine pre-drilling at North Point and tunnel works at Wan Chai East in the reporting month.
- 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, IECL and Causeway Bay typhoon shelter in the reporting month. No significant air impact was anticipated in the reporting month. Notwithstanding, two project-related exceedances regarding construction noise was recorded during non-restricted hours referred to Contract no. HY/2009/18 and HY/2009/19 in the reporting month. In general, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II 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
111101_01	1-Nov-11	Water spraying shall be conducted especially those dust generating works (TS4,TS1,EXTPCWA)	Conduct water spraying to dust generating works	Completion as observed on 8-Nov-11
111101_02	1-Nov-11	Oil spillage shall be treated as chemical waste.(Abutment A)	Collect the contaminated top soil and treated as chemical waste.	Completion as observed on 8-Nov-11
111101_03	1-Nov-11	Protection shall be improved for bentonite transshipment(EXTCPWA)	Improve the protection of bentonite transshipment	Completion as observed on 8-Nov-11
111101_04	1-Nov-11	Protection of rock bund shall be improved to prevent any material loss.(TS4)	Geotextile shall be provided for the rock bund protection	Completion as observed on 8-Nov-11
111101_05	1-Nov-11	Silt curtain at TS4 shall be maintained.(TS4)	Maintain the slit curtain at TS4	Completion as observed on 8-Nov-11
111108_01	8-Nov-11	Enclosure and ventilation system of grouting plant shall be improved	Improve the enclosure and ventilation system of grouting plant	Completion as observed on 15-Nov-11
111108_02	8-Nov-11	Protection of the sloping seawall shall be provided, such as geotextile, to prevent any leakage of the soil at reclamation.	Geotextile shall be provided for the sloping seawall protection	Completion as observed on 15-Nov-11
111115_01	15-Nov-11	Floating refuses shall be collected (TS1, TS4)	Collect floating refuse	Completion as observed on 21-Nov-11
111115_02	15-Nov-11	Sandbags shall be provided to protect the U channel (POC)	provide sandbags for U channel protection	Completion as observed on 21-Nov-11
111115_03	15-Nov-11	Drip tray shall be provided for chemical storage (TS4)	provide drip tray for chemical storage	Completion as observed on 21-Nov-11
111121_01	21-Nov-11	Rectification of southern seawall in terms of <b>retrieving the collapsed fill material</b> and seawall block (TS4)	Taking up of collapsed fill material and seawall block	In progress
111121_02	21-Nov-11	Seepage of muddy water was observed at the tip of eastern	Maintain the slit curtain at TS4	Completion as observed on 29-



Item	Date	Observations	Action taken by Contractor	Outcome
		sloping seawall (TS4).		Nov-11

- 8.0.3. Four site inspections for Contract no. HY/2009/18 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.2**.

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

Item	Date	Observations	Action taken by Contractor	Outcome
111103_01	3-Nov-11	Drip tray shall be provided for chemical storage.	provide drip tray for chemical storage	Completion as observed on 10-Oct-11

- 8.0.4. Four 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
111102_01	2-Nov-11	The contractor was reminded to clean the mud inside U channel to prevent blockage.	collect the mud inside the U channel	Completion as observed on 9-Nov-11

- 8.0.5. Four site inspections for Contract no. HK/2009/01 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.4**.

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

Item	Date	Observations	Action taken by Contractor	Outcome
111102_01	2-Nov-11	The tarpaulin sheet between the hopper barge & Jetty barge shall be maintained so as to have proper effectiveness.	Maintain the tarpaulin sheet between the hopper barge & Jetty barge	Completion as observed on 9-Nov-11
111102_02	2-Nov-11	Protective measure at the site boundary (southern of HKCEC) shall be enhanced.	Enhance the protective measure at the site boundary	Completion as observed on 9-Nov-11
111109_01	9-Nov-11	The effectiveness of sedimentation tanks at TST shall be reviewed and enhanced.	Review and enhance the effectiveness of sedimentation tanks	Completion as observed on 17-Nov-11
111117_01	17-Nov-11	The stockpile located closed to the seawall at TST shall be covered by tarpaulin sheet or trimming down.	Cover the stockpile by tarpaulin	Completion as observed on 23-Nov-11
111117_02	17-Nov-11	Contractor was reminded to display relevant FEP and valid CNP at all site access.	Display relevant FEP and valid CNP at all site access.	Completion as observed on 23-Nov-11
111123_01	23-Nov-11	The silt curtain at TST shall be maintained to ensure no gap to	Maintain the silt curtain	Completion as observed on 30-

Item	Date	Observations	Action taken by Contractor	Outcome
		escape silty water.		Nov-11
111123_02	23-Nov-11	Arrangement of sedimentation tank located at HKCEC1 shall be reviewed to avoid any overflow of wastewater.	Review the arrangement of the sedimentation tanks at ex-Pet Garden	Completion as observed on 30-Nov-11
111123_03	23-Nov-11	Oil leakage was observed from the drip trap for drill rig. The drip tray shall be repaired to avoid any oil leakage.	Repair the drip tray	Completion as observed on 30-Nov-11
111123_04	23-Nov-11	Contractor was reminded to place sand bags at the edge of seawall at TST and regular trim-off the stockpile near seawall.	Place sand bags at the edge of seawall and regular trim-off the stockpile near it.	Completion as observed on 30-Nov-11
111123_05	23-Nov-11	Contractor was reminded that no silty water shall be spillage from truck during the transportation.	Dehydrate the soils/ materials properly before transportation	Completion as observed on 30-Nov-11

8.0.6. Four site inspections for Contract no. HK/2009/02 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.5**.

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

Item	Date	Observations	Action taken by Contractor	Outcome
111103_01	3-Nov-11	Proper dust suppression measure shall be provided on the jetty barge. Besides, contractor was reminded to ensure the protective screen having appropriate height to avoid C&D material drop into the sea.	Provide proper dust measure on the jetty barge and inspect the height of the protective screen is appropriate to avoid C&D material drop into the sea	Completion as observed on 10-Nov-11
111103_02	3-Nov-11	Sand bags shall be enhanced/replaced near eastern seawall.	Replace sandbags near eastern seawall	Completion as observed on 10-Nov-11
111110_01	10-Nov-11	The effectiveness of wastewater treatment tank shall be checked and enhanced.	Check and enhance the effectiveness of wastewater treatment tank	Completion as observed on 16-Nov-11
111110_02	10-Nov-11	The drainage system at ex-Pet Garden shall be reviewed to avoid any muddy water overflow into the sea.	review the clearance of the drainage system at ex-Pet Garden	Completion as observed on 16-Nov-11
111116_01	16-Nov-11	Proper clearance of the silt on the wheel of dump truck shall be provided before leaving the site at Wan Shing Street.	Ensure the mud on the wheels of dump trucks are fully cleaned before leave the site	Completion as observed on 24-Nov-11



Item	Date	Observations	Action taken by Contractor	Outcome
111116_02	16-Nov-11	Contractor was reminded to close the engine cover of the excavator at Wan Shing Street.	Ensure the engine cover is closed of the plant before use	Completion as observed on 24-Nov-11
111124_01	24-Nov-11	The silt curtain deployed at eastern seawall shall be weighted down to avoid floating-up.	maintain the counter weight of the silt curtain	Completion as observed on 1-Dec-11

8.0.7. Four site inspections for Contract no. HY/2009/17 were carried out during this reporting period. No observation was found in the reporting month.

## COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. Two environmental complaints were received on 4 and 6 November 2011 in the reporting month.
- 9.0.2. The complainant, Mr. Liu from LCSD complained via Contractor Complaint Hotline about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.
- 9.0.3. A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is confirmed that is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. Another two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate.
- 9.0.4. Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.
- 9.0.5. A noise complaint was received by Police Officer and a police officer arrived to Contract HK/2009/01 site at about 6:30 a.m. on 6 November 2011 to inspect noise generated from the site and stop the existed machines operation. The subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no CNP was checked by the police officer.
- 9.0.6. According to the information reported by Contractor, one BC cutter and a hoist were operated for inspecting all bentonite pipes were in good condition and all joints were tightened in good position for Diaphragm Wall construction of Shatin-Central Link. Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, the Korean Sub-contractor had not notified to Contractor prior carrying out the inspection of the bentonite pipes and all pipe joints to ensure no damages and was tightened in good positions at about 6:00a.m.
- 9.0.7. As such, the Contractor HK/2009/01 was reminded to enhance the communication between Contractor and sub-contractor, and construction Noise Permit should be checked and in place for the construction works during restricted hour, plus providing environmental training to all foreman and operators on restricted hour operation.
- 9.0.8. The complaint was considered in relation to the construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during

night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.

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

9.0.10. 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
November 2011	2
Sep 10 to October 11	11
<b>Total</b>	<b>13</b>

**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
<b>Total</b>	<b>-</b>	<b>0</b>	<b>0</b>

**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"> <li>• Diaphragm wall construction preparation works at TS4</li> <li>• ELS works at TS1 and TPCWAE</li> <li>• Night time protection works at CHT</li> <li>• Construction of dewatering well at Hung Hing Road and POC</li> <li>• Precautionary works at Abutment A</li> </ul>	<ul style="list-style-type: none"> <li>• Watering any dust generating activities</li> <li>• Checking all drip trays frequently and clear any stagnant water and mud inside it.</li> <li>• Noise control measures shall be provided during restricted hours.</li> </ul>
HY/2009/17	<ul style="list-style-type: none"> <li>• ELS works for basement construction for pile cap construction.</li> </ul>	<ul style="list-style-type: none"> <li>• Noise barrier shall be implemented; and</li> <li>• Watering any dust generating activities</li> </ul>
HY/2009/18	<ul style="list-style-type: none"> <li>• Instrumentation works for Manholes and Intake Culvert Survey</li> <li>• Excavation of trial pit</li> <li>• Drainage work at Man Yiu Street</li> <li>• Site investigation and pre-drilling works at CR3</li> <li>• Diaphragm wall construction</li> <li>• Hoarding erection</li> <li>• Roadworks at CR3</li> <li>• Grout curtain</li> </ul>	<ul style="list-style-type: none"> <li>• Noise barrier shall be implemented; and</li> <li>• Noise level shall be controlled by reducing piling rate and no. of plants working in parallel.</li> <li>• Dust control during dust generating works</li> </ul>
HY2009/19	<ul style="list-style-type: none"> <li>• Remove existing dolphin</li> <li>• Road works at Watson Road</li> <li>• Fabrication of bored piling platform</li> <li>• Bored piling</li> <li>• Ground contamination assessment</li> <li>• Pre-drilling works for bored pile and Diaphragm wall</li> <li>• D-wall Construction</li> <li>• Sheet piling for Box Culvert T</li> <li>• Construction works for Box Culvert T</li> <li>• Marine Piling</li> </ul>	<ul style="list-style-type: none"> <li>• Noise level shall be controlled by reducing the operation rate.</li> <li>• Noise barrier shall be deployed for dolphin pier removal.</li> </ul>

HK2009/01	<ul style="list-style-type: none"> <li>• Diaphragm wall construction works for both CWB and SCL Protection Works within HKCEC1</li> <li>• Pre-drilling works for CWB at Stage 2</li> <li>• Pilling works for CWB at Stage 1</li> </ul>	<ul style="list-style-type: none"> <li>• Noise level shall be controlled by reducing pilling rate.</li> <li>• Well maintain the enclosures for grouting and bentonite mixing plants.</li> <li>• Apply CNP for night works, if necessary.</li> </ul>
HK/2009/02	<ul style="list-style-type: none"> <li>• Tunnel bored pile construction works and ELS at western tunnel portion</li> <li>• Toe grout, Shear pile, and Pumping test at WCR1 area.</li> </ul>	<ul style="list-style-type: none"> <li>• Noise level shall be controlled by reducing pilling rate.</li> <li>• Well maintain the enclosures for grouting and bentonite mixing plants.</li> </ul>

10.0.3. The 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 was completed, and the FEP was surrendered by the Contractor on 11 February 2011.



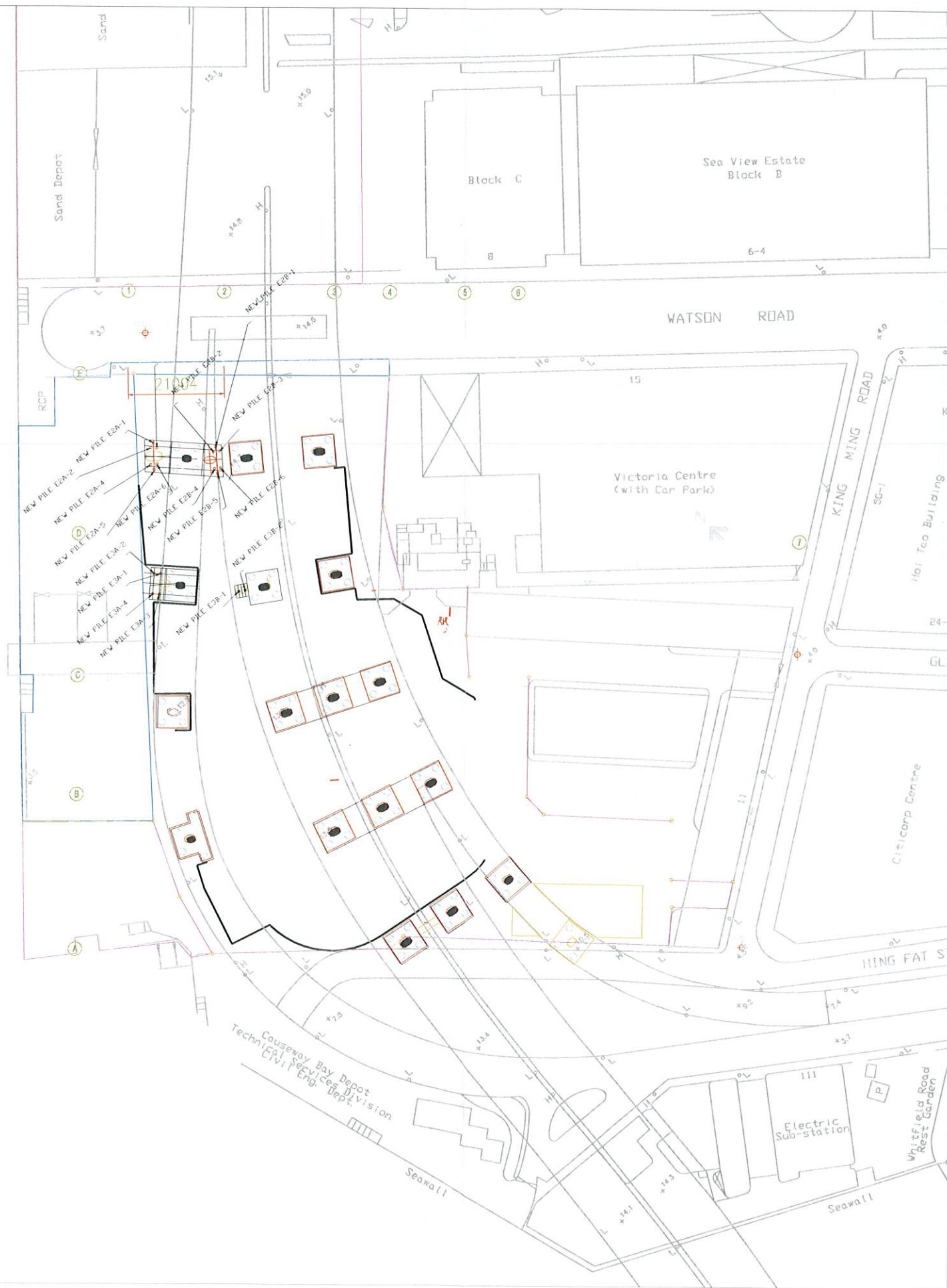
***Figure 2.1***

***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**

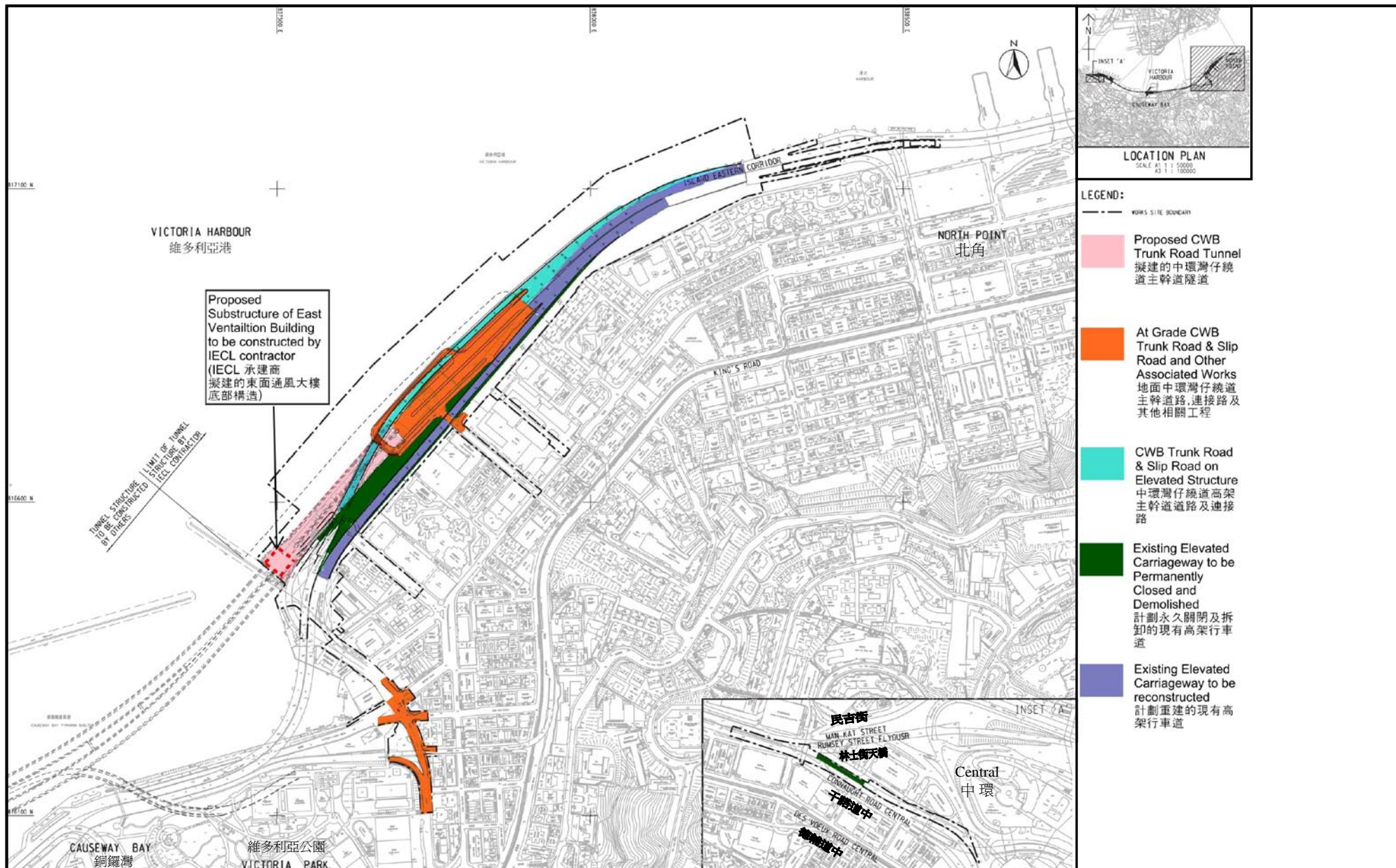
DRAWING NO. 0020

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)



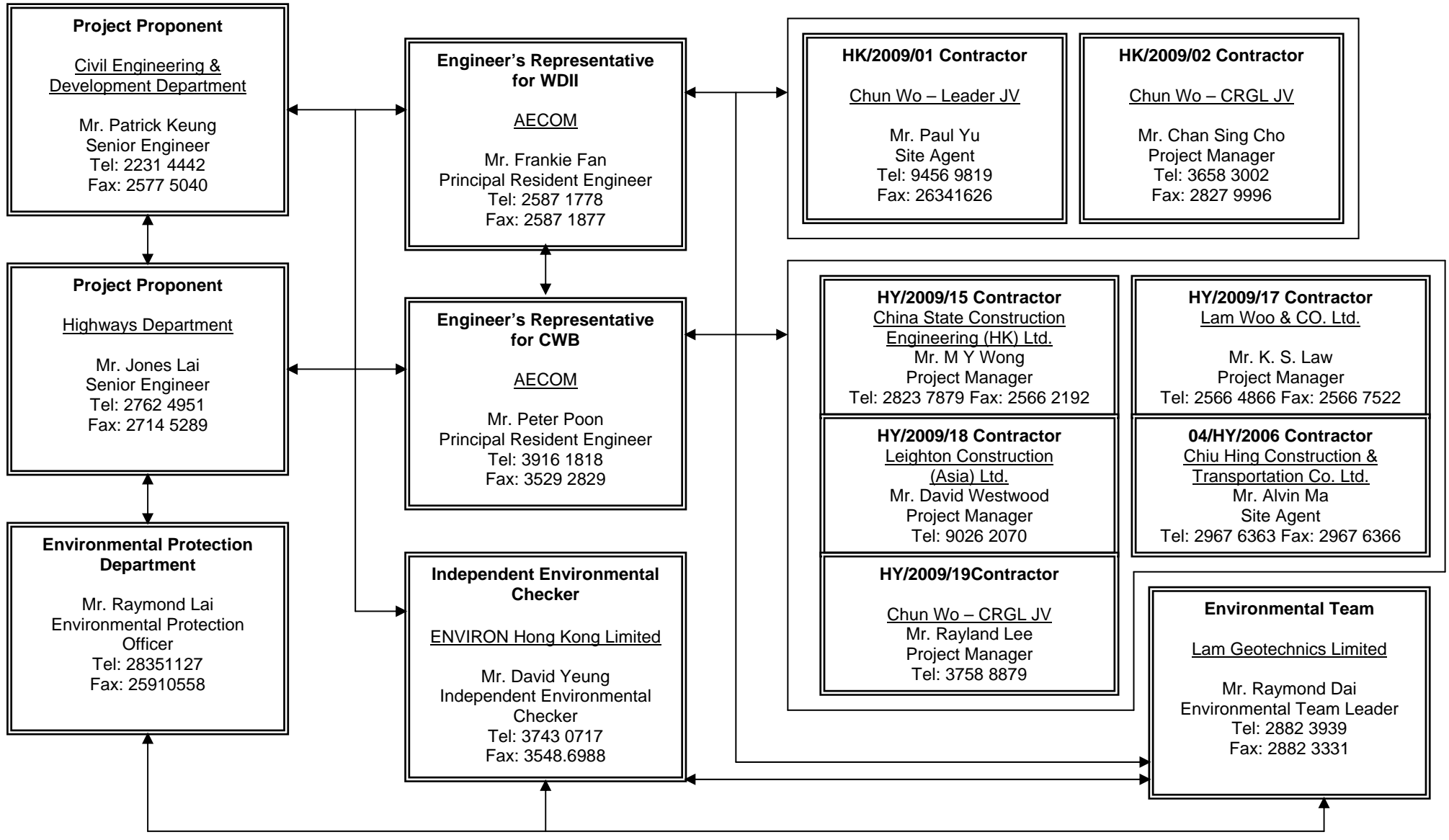
***Figure 2.2***

***Project Organization Chart***





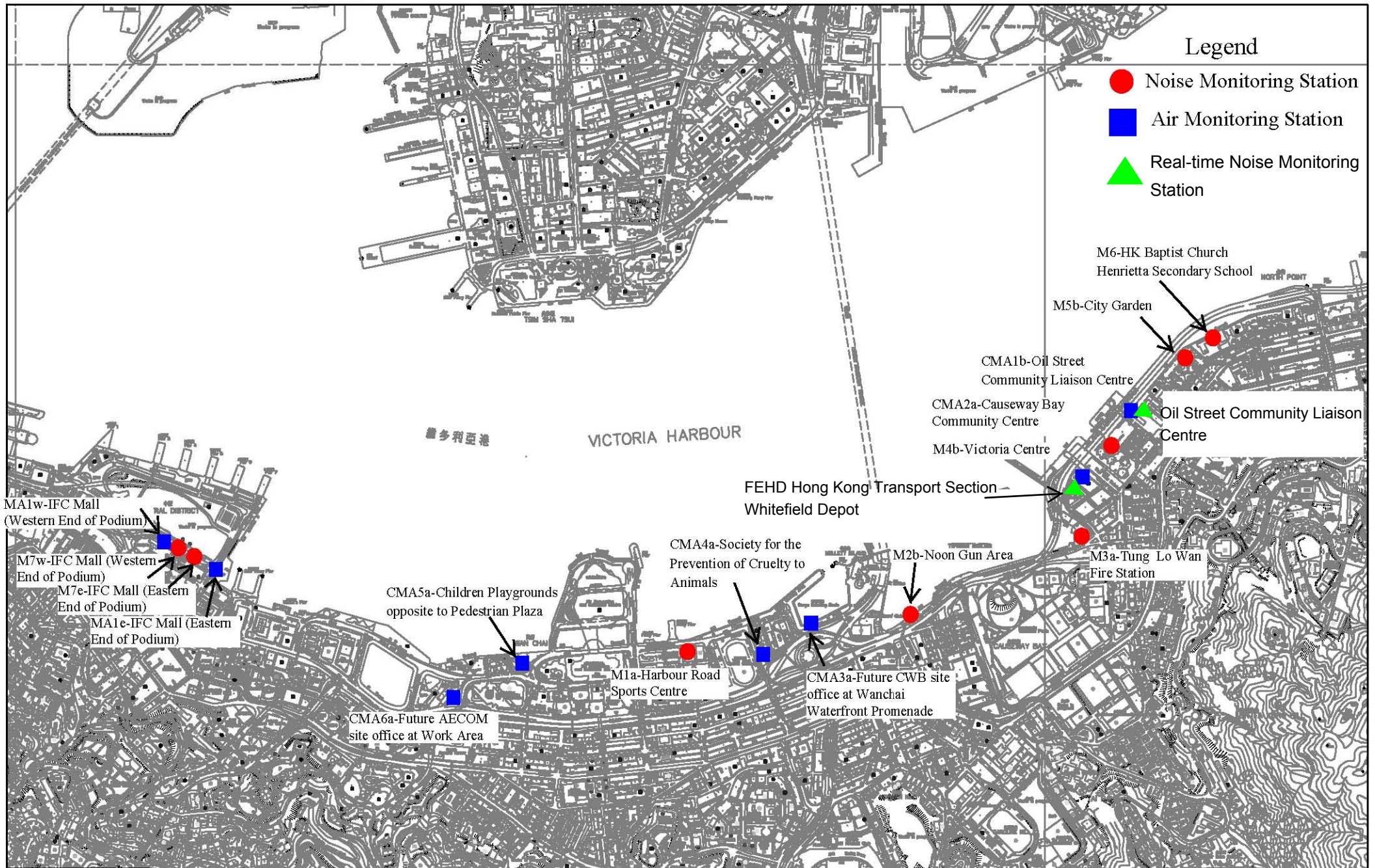
**Project Organization Chart**





***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	
<b>Construction Phase</b>								
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"> <li>Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition;</li> <li>Watering during excavation and material handling;</li> <li>Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> </ul>	Work site / during construction	Contractor		√			
<b>Operational Phase</b>								
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	
<b>Construction Phase</b>								
S4.9.3	<p>Good Site Practice:</p> <ul style="list-style-type: none"> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>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.</li> <li>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.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	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"> <li>Slip road 8 tunnel</li> <li>Construction of diaphragm wall and substructures of the tunnel approach ramp</li> <li>Excavation</li> <li>Construction of slabs</li> <li>Backfill</li> </ul>	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"> <li>Demolition and construction of substructures for the IEC</li> <li>Demolition works of existing piers and crossheads of the marine section of the existing IEC</li> </ul> <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul>							
<b>Operation Phase</b>								
S4.8.12 – S4.8.23	<p>For Existing NSRs</p> <ul style="list-style-type: none"> <li>about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC</li> <li>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)</li> <li>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</li> <li>about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC</li> <li>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</li> </ul>	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM

WDII & 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"> <li>• about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>• 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.</li> </ul>	<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	
<b>Construction Phase</b>								
S6.5.14	<b>Floating Refuse</b> 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	<b>Good Site Practices</b> Recommendations for good site practices during the construction activities include: <ul style="list-style-type: none"> <li>• 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;</li> <li>• training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>• provision of sufficient waste disposal points and regular collection for disposal;</li> <li>• appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>• regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and</li> <li>• a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	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"> <li>• 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;</li> <li>• 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;</li> <li>• any unused chemicals or those with remaining functional capacity shall be recycled;</li> <li>• use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&amp;D material.</li> <li>• prior to disposal of C&amp;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;</li> <li>• proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> <li>• plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	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&amp;D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&amp;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		√			Waste Disposal (Chemical Waste) (General) Regulation  Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.6.6	<p><i>Construction and Demolition Material</i></p> <p>C&amp;D material shall be sorted on-site into inert C&amp;D material (that is, public fill) and C&amp;D waste. All the suitable inert C&amp;D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&amp;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"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> </ul>	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	
<b>Construction and Operation Phase</b>								
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	
<b>Construction Phase</b>								
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
<b>Operation Phase</b>								
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*

<b>Time Period</b>	<b>Action Level</b>	<b>Limit Level</b>
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 70 dB(A)/ 65 dB(A) <sup>Note 1</sup>

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 <sub>a</sub>	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5 <sub>a</sub>	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 <sub>P</sub>	Fast	94.00	--	94.1
		L <sub>PA</sub>	Fast		*95.0	94.1
			Slow		--	94.1
		L <sub>PC</sub>	Fast		--	94.1
60 – 120	OFF	L <sub>P</sub>	Fast	94.00	--	94.1
		L <sub>PA</sub>	Fast		--	94.0
			Slow		--	94.0
		L <sub>PC</sub>	Fast		--	94.0
60 – 120	OFF	L <sub>P</sub>	Fast	114.00	--	114.0
		L <sub>PA</sub>	Fast		--	113.9
			Slow		--	113.9
		L <sub>PC</sub>	Fast		--	113.9

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.2$  dB

## 2. Level Stability : 0.1 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  dB



# 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 <sup>2</sup>	40.0	39.6	
1/10 <sup>3</sup>	40.0	39.2	± 1.0 dB
1/10 <sup>4</sup>	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 :**  $(23 \pm 3)^{\circ}\text{C}$

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

## Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

## Test Results

All results were within the 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 :**  $(23 \pm 3)^{\circ}\text{C}$

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

## Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

## Test Results

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


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


Main Test equipment used:

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

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

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

**Calibrated by :**   
P. F. Wong

**Approved by :**   
Dorothy Cheuk

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

Date: 23-Nov-10





# Calibration Certificate

Certificate No. 06680

Page 2 of 4 Pages

Results :

## 1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Time Const.		
20 – 100	L <sub>A</sub>	Fast	94.0	94.3
		Slow		94.3
	L <sub>C</sub>	Fast		94.3
30 – 120	L <sub>A</sub>	Fast	94.0	94.4
		Slow		94.4
	L <sub>C</sub>	Fast		94.4
30 – 120	L <sub>A</sub>	Fast	114.0	94.3
		Slow		94.3
	L <sub>C</sub>	Fast		94.3

IEC 651 Type 1 Spec. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.1$  dB

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  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	$\pm 0.7$ 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 :  $\pm 0.1$  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 <sup>2</sup>	40.0	39.9	
1/10 <sup>3</sup>	40.0	40.3	± 1.0 dB
1/10 <sup>4</sup>	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

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





# 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<sup>-6</sup>

## 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.  
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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

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

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

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

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

For subsequent flow rate calculations:

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

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



# 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

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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. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.1$  dB

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  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	$\pm 0.4$ dB
	94.0	93.9 (Ref.)	--	
	95.0	95.0	+0.1	$\pm 0.2$ dB

Uncertainty :  $\pm 0.1$  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, $\pm 1.5$ dB
63 Hz	-26.5	- 26.2 dB, $\pm 1.5$ dB
125 Hz	-16.5	- 16.1 dB, $\pm 1$ dB
250 Hz	-9.0	- 8.6 dB, $\pm 1$ dB
500 Hz	-3.5	- 3.2 dB, $\pm 1$ dB
1 kHz	0.0 (Ref)	0 dB, $\pm 1$ dB
2 kHz	+1.1	+ 1.2 dB, $\pm 1$ dB
4 kHz	+1.1	+ 1.0 dB, $\pm 1$ dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB $\sim$ -3 dB
16 kHz	-5.9	- 6.6 dB, + 3 dB $\sim$ - $\infty$

Uncertainty :  $\pm 0.1$  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	$\pm 0.5$ dB
1/10 <sup>2</sup>	40.0	40.0	
1/10 <sup>3</sup>	40.0	40.0	$\pm 1.0$ dB
1/10 <sup>4</sup>	40.0	40.0	

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

Certificate No. 13784

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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	-21.1	< - 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 :  $\pm 0.25$  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 :  $\pm 0.25$  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 ± 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:

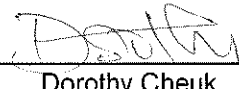
<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	07279	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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.

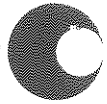
The test equipment used for calibration are traceable to International System of Units (SI).

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**

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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. :  $\pm 0.7$  dB

Uncertainty :  $\pm 0.2$  dB

## 2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. :  $\pm 0.3$  dB

Uncertainty :  $\pm 0.01$  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	$\pm 0.4$ dB
	94.0	93.8 (Ref.)	--	
	95.0	94.8	0.0	$\pm 0.2$ dB

Uncertainty :  $\pm 0.1$  dB





# Calibration Certificate

Certificate No. 13813

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## 4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, $\pm 1.5$ dB
63 Hz	-26.6	- 26.2 dB, $\pm 1.5$ dB
125 Hz	-16.5	- 16.1 dB, $\pm 1$ dB
250 Hz	-9.0	- 8.6 dB, $\pm 1$ dB
500 Hz	-3.5	- 3.2 dB, $\pm 1$ dB
1 kHz	0.0 (Ref)	0 dB, $\pm 1$ dB
2 kHz	+1.4	+ 1.2 dB, $\pm 1$ dB
4 kHz	+1.2	+ 1.0 dB, $\pm 1$ dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB $\sim$ -3 dB
16 kHz	-5.8	- 6.6 dB, + 3 dB $\sim$ - $\infty$

Uncertainty :  $\pm 0.1$  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	$\pm 0.5$ dB
1/10 <sup>2</sup>	40.0	39.9	$\pm 1.0$ dB
1/10 <sup>3</sup>	40.0	40.0	
1/10 <sup>4</sup>	40.0	40.0	

Uncertainty :  $\pm 0.1$  dB



# Calibration Certificate

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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 :  $\pm 0.25$  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 :  $\pm 0.25$  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 : 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 &lt; 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 : 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 &lt; 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



Lam Geotechnics Limited

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

Location : CMA1b  
 Equipment no. : EL452

Calibration Date : 12-Nov-11  
 Calibration Due Date : 12-Jan-12

**CALIBRATION OF CONTINUOUS FLOW RECORDER**

Ambient Condition			
Temperature, $T_a$	297	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	$\left( \frac{H \times P_a}{1013.3 \times 298 / T_a} \right)^{1/2}$ $= m_c \times Q_{std} + b_c$	
Next Calibration Date	11-Jul-12		

Calibration of RSP						
Calibration Point	Manometer Reading H (inches of water)			$Q_{std}$ ( $m^3 / min.$ ) 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	1.7524	60	60.0030
2	4.8	4.8	9.6	1.5568	52	52.0026
3	3.8	3.8	7.6	1.3873	45	45.0022
4	2.5	2.5	5.0	1.1290	34	34.0017
5	1.5	1.5	3.0	0.8790	24	24.0012

By Linear Regression of Y on X  
 Slope, m = 41.3859      Intercept, b = -12.4919  
 Correlation Coefficient\* = 1.0000  
 Calibration Accepted = Yes/No\*\*

\* if Correlation Coefficient &lt; 0.990, check and recalibration again.

Remarks : \_\_\_\_\_

Calibrated by : Sam Lam  
 Date : 12-Nov-11

Checked by : Cherry Mak  
 Date : 12-Nov-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 <sub>a</sub>	298	Kelvin	Pressure, P <sub>a</sub>
			1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m <sub>c</sub>	2.01593	Intercept, b <sub>c</sub>	-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 <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /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 &lt; 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



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 <sub>a</sub>	298	Kelvin	Pressure, P <sub>a</sub>
			1010 mmHg

Orifice Transfer Standard Information			
Equipment No.	EL086	Slope, m <sub>c</sub>	2.01593
		Intercept, b <sub>c</sub>	-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 <sub>std</sub> (m <sup>3</sup> / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC Y-axis
	H (inches of water) (up)	H (inches of water) (down)	H (inches of water) (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 : 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	$\left( H \times P_a / 1013.3 \times 298 / T_a \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
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 ( $W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$ ) 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 &lt; 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 : 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 &lt; 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 : 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 &lt; 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**  
**November 2011**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>30-Oct</b>	31-Oct Noise (Day time) Noise (Restricted hr) 1900-2300 (M1a, M2b, M7e and M7w)	1-Nov 24hr TSP	2-Nov 1hr TSP x 3	3-Nov	4-Nov	5-Nov
<b>6-Nov</b>	7-Nov 24hr TSP	8-Nov 1hr TSP x 3 Noise (Restricted hr) 1900-2300 (M1a, M2b, M7e and M7w)	9-Nov	10-Nov Noise (Day time)	11-Nov	12-Nov 24hr TSP
<b>13-Nov</b>	14-Nov 1hr TSP x 3	15-Nov Noise (Day time) Noise (Restricted hr) 1900-2300 (M1a, M2b, M7e and M7w)	16-Nov	17-Nov	18-Nov 24hr TSP	19-Nov 1hr TSP x 3 24hr TSP (CMA1b)
<b>20-Nov</b>	21-Nov Noise (Restricted hr) 1900-2300 (M1a, M2b, M7e, M7w)	22-Nov	23-Nov Noise (Restricted hr) 1900-2300 (M3a, M4b, M5b)	24-Nov 24hr TSP Noise (Day time)	25-Nov 1hr TSP x 3	26-Nov
<b>27-Nov</b>	28-Nov	29-Nov	30-Nov	1-Dec	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)								
31/10/11	9:47	Fine	73.3	75.6	69.6	69.2	71	75
10/11/11	9:52	Cloudy	74.9	77.5	70.7	69.2	74	75
15/11/11	10:35	Fine	74.9	77.7	70.4	69.2	74	75
24/11/11	09:50	Fine	74.8	77.0	70.0	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)								
31/10/11	10:31	Fine	70.2	71.8	68.1	-	70	75
10/11/11	10:35	Cloudy	72.0	73.8	69.4	-	72	75
15/11/11	11:26	Fine	69.6	70.8	66.5	-	70	75
24/11/11	10:37	Fine	75.2	77.7	70.2	-	75	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
31/10/11	11:13	Fine	68.7	70.3	65.1	-	69	75
10/11/11	13:00	Cloudy	68.7	70.5	66.6	-	69	75
15/11/11	13:43	Sunny	67.4	69.4	65.0	-	67	75
24/11/11	13:00	Fine	68.7	70.5	66.5	-	69	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)								
31/10/11	13:00	Fine	72.2	74.2	68.0	-	72	75
10/11/11	14:18	Cloudy	70.2	71.9	67.9	-	70	75
15/11/11	13:00	Fine	72.8	77.3	67.7	-	73	75
24/11/11	13:18	Fine	72.7	75.6	68.8	-	73	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)								
31/10/11	13:40	Fine	73.0	73.2	68.6	-	73	75
10/11/11	15:47	Cloudy	70.7	72.1	68.8	-	71	75
15/11/11	15:50	Fine	73.2	76.0	69.7	-	73	75
24/11/11	15:49	Fine	71.7	73.2	68.9	-	72	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)								
31/10/11	14:54	Fine	75.3	77.6	72.2	70.7	<b>73</b>	70
10/11/11	15:09	Cloudy	73.6	74.9	71.6	70.7	70	70
15/11/11	14:37	Fine	73.6	75.9	71.0	70.7	70	70
24/11/11	15:08	Fine	73.2	74.5	71.5	70.7	70	70

Bolded values representing the noise Limit Level exceedance(s).





**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)								
31/10/11	8:13	Fine	74.5	76.6	71.7	-	75	75
10/11/11	8:20	Cloudy	75.4	77.3	72.5	-	75	75
15/11/11	08:56	Fine	77.5	79.2	74.4	-	<b>78</b>	75
24/11/11	08:55	Fine	69.3	70.7	67.3	-	69	75

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
31/10/11	8:51	Fine	68.2	71.7	65.4	-	68	75
10/11/11	8:58	Cloudy	70.1	72.0	67.6	-	70	75
15/11/11	08:16	Fine	68.6	69.8	67.0	-	69	75
24/11/11	08:12	Fine	64.3	65.6	62.5	-	64	75

Bolded values representing the noise Limit Level exceedance(s).



**Noise Monitoring Result**

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

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
23/11/11	19:57	Fine	67.5	68.9	65.5	67.5	-	68	70
	20:02		67.5	68.9	65.4				
	20:08		67.5	69.2	65.6				

Location: M5b - City Garden

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)									
23/11/11	20:30	Fine	66.8	68.2	64.6	67.5	-	67	70
	20:35		68.0	69.7	65.4				
	20:41		67.5	68.9	65.4				

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)									
31/10/11	21:26	Fine	71.7	74.2	66.8	71.1	61.1	71	70
	21:31		71.3	73.8	67.2				
	21:36		70.2	72.4	66.1				
08/11/11	20:30	Cloudy	76.9	80.0	71.9	75.8	61.1	76	70
	20:35		75.0	77.7	70.9				
	20:40		75.4	78.2	70.8				
15/11/11	19:16	Fine	71.7	73.1	68.2	72.4	61.1	72	70
	19:21		72.9	75.7	69.0				
	19:26		72.5	75.8	67.1				
21/11/11	20:19	Fine	74.6	77.6	68.9	73.7	61.1	73	70
	20:24		72.6	75.4	68.5				
	20:29		73.6	76.7	68.9				

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)									
31/10/11	20:51	Fine	69.2	70.4	66.9	69.6	-	70	70
	20:56		69.7	71.4	66.9				
	21:01		69.8	71.4	67.0				
08/11/11	21:21	Cloudy	67.1	68.3	65.5	67.2	-	67	70
	21:26		67.3	68.9	65.7				
	21:31		67.3	68.5	66.0				
15/11/11	19:46	Fine	67.7	68.3	65.5	67.3	-	67	70
	19:51		67.4	69.0	65.5				
	19:56		66.6	67.8	65.1				
21/11/11	21:03	Fine	73.3	76.2	68.0	72.6	-	73	70
	21:08		69.2	70.7	67.1				
	21:13		74.0	76.8	68.5				

Location: M3a - Tung Lo Wan Fire Station

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)									
23/11/11	19:30	Fine	67.3	68.8	63.9	66.7	-	67	70
	19:35		66.6	69.0	63.9				
	19:41		66.0	67.8	63.1				

Bolded values representing the noise Limit Level exceedance(s).



**Noise Monitoring Result**

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

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)									
31/10/11	20:09	Fine	67.8	70.8	62.4	66.0	-	66	70
	20:14		65.6	68.7	61.9				
	20:19		63.7	65.4	61.6				
08/11/11	19:45	Cloudy	69.1	69.6	67.4	68.2	-	68	70
	19:50		69.3	71.0	65.9				
	19:55		65.3	67.3	63.0				
15/11/11	20:59	Fine	69.2	71.7	66.3	68.6	-	69	70
	21:04		68.3	69.8	66.8				
	21:09		68.2	69.2	66.9				
21/11/11	19:00	Fine	72.0	72.6	71.3	72.2	-	<b>72</b>	70
	19:05		72.4	72.9	71.9				
	19:10		72.2	72.6	71.6				

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

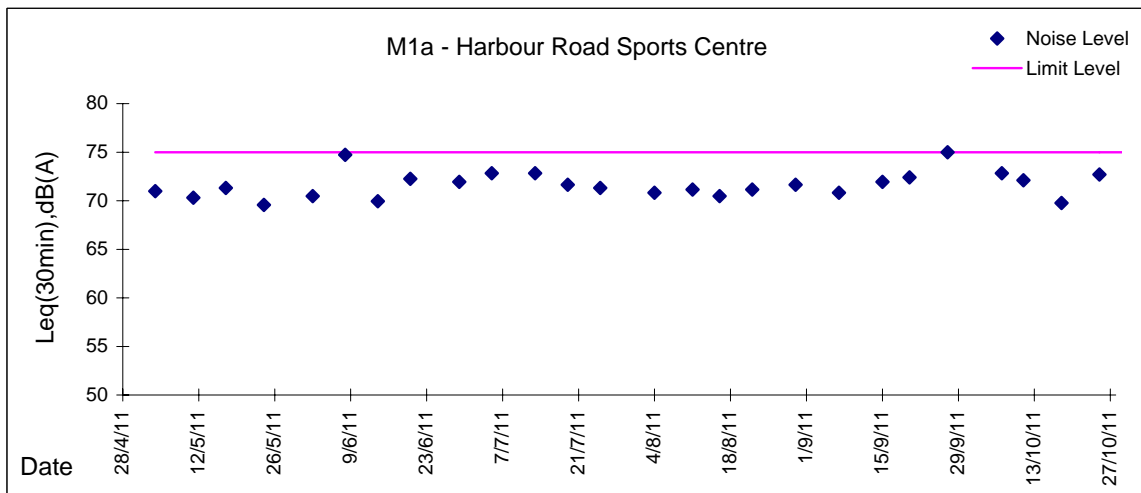
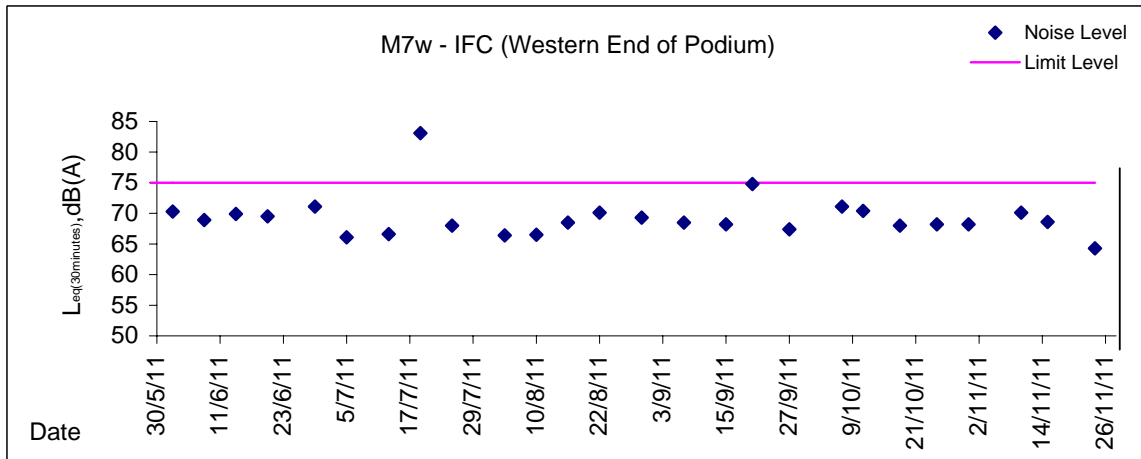
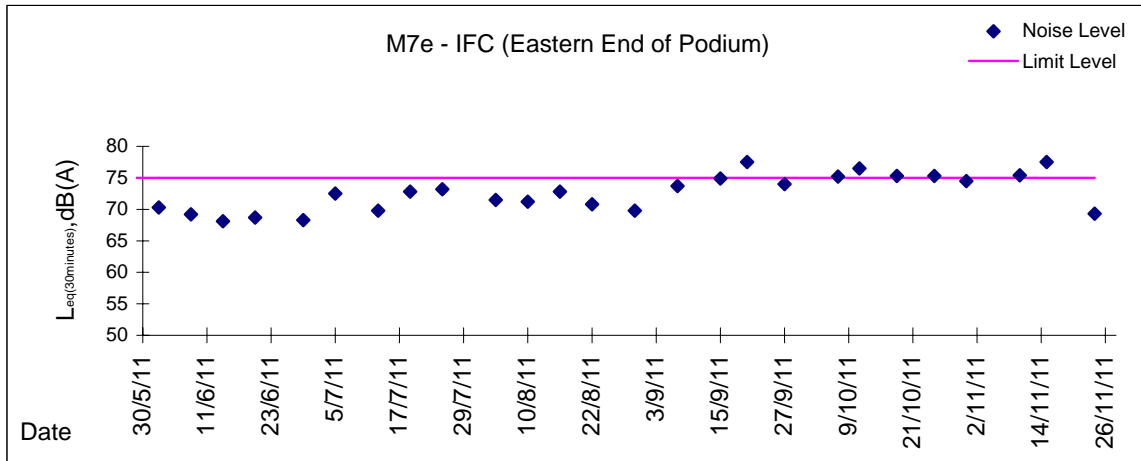
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			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
31/10/11	19:45	Fine	65.4	66.4	63.7	66.2	-	66	70
	19:50		65.0	66.5	63.2				
	19:55		67.7	70.6	63.3				
08/11/11	19:20	Cloudy	66.0	67.4	64.0	65.9	-	66	70
	19:25		65.6	66.8	64.0				
	19:30		66.2	67.9	64.1				
15/11/11	20:29	Fine	66.2	68.6	62.3	64.5	-	64	70
	20:34		63.8	65.4	62.3				
	20:39		62.7	64.0	61.2				
21/11/11	19:39	Fine	65.4	66.4	64.2	66.1	-	66	70
	19:44		67.2	69.7	64.4				
	19:49		65.5	66.5	64.1				

Bolded values representing the noise Limit Level exceedance(s).



Graphic Presentation of Noise Monitoring Result

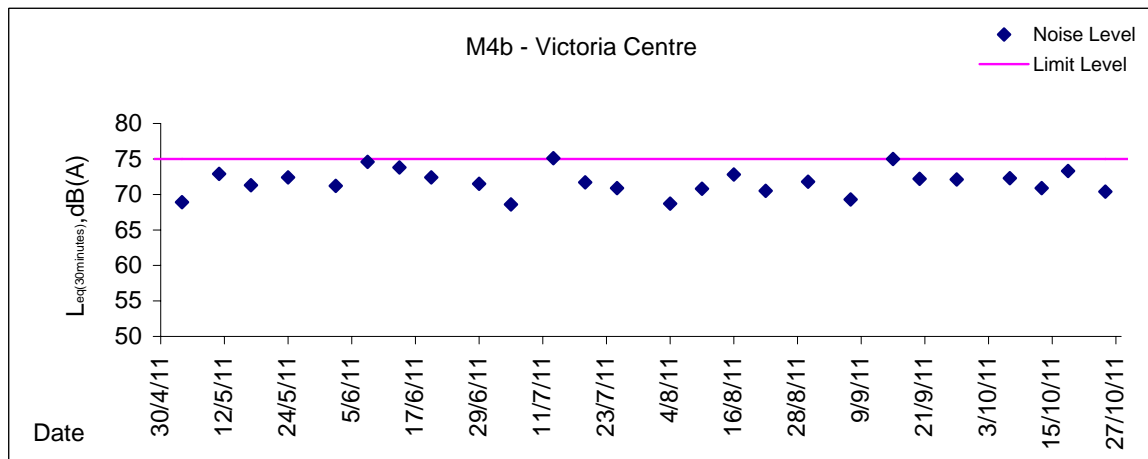
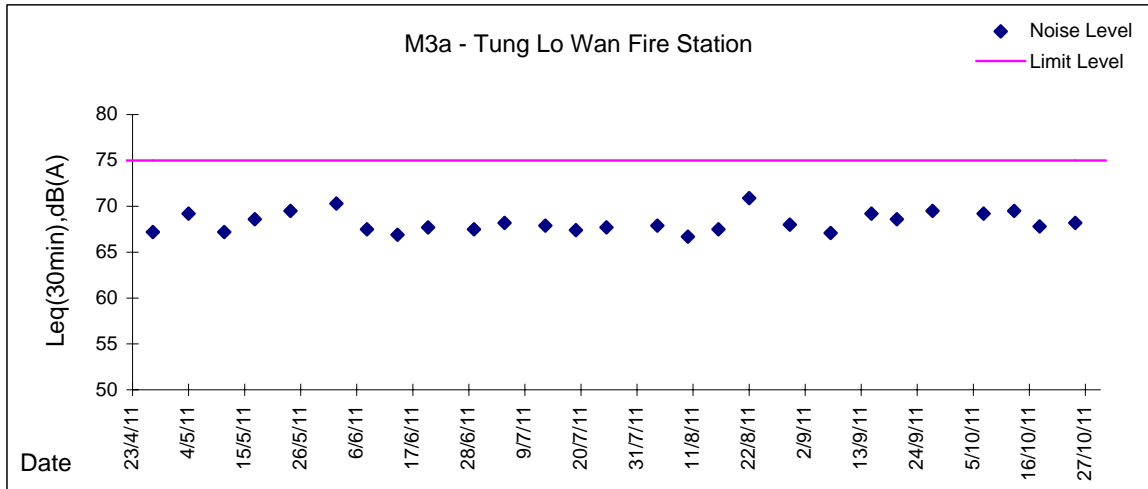
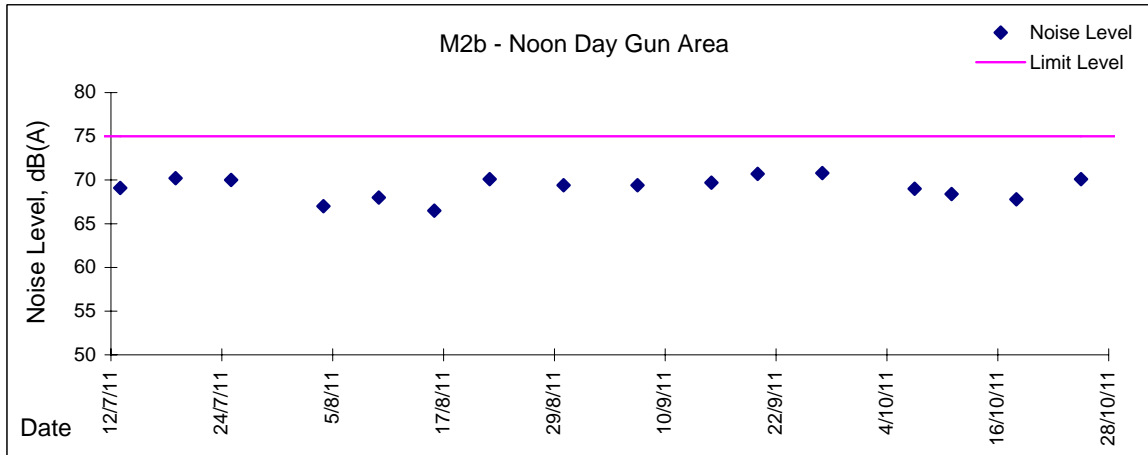
Day Time (0700 - 1900hrs on normal weekdays)





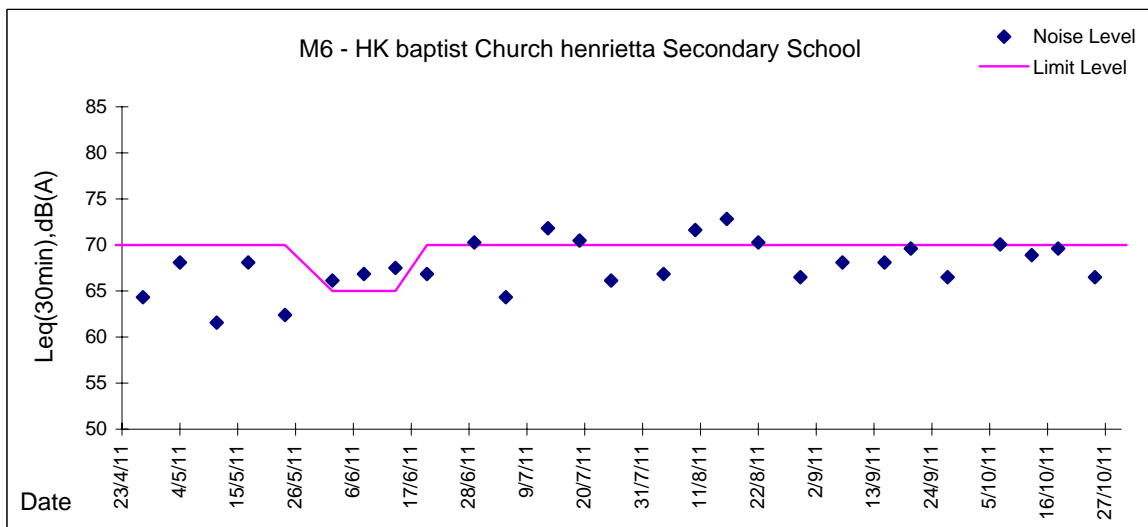
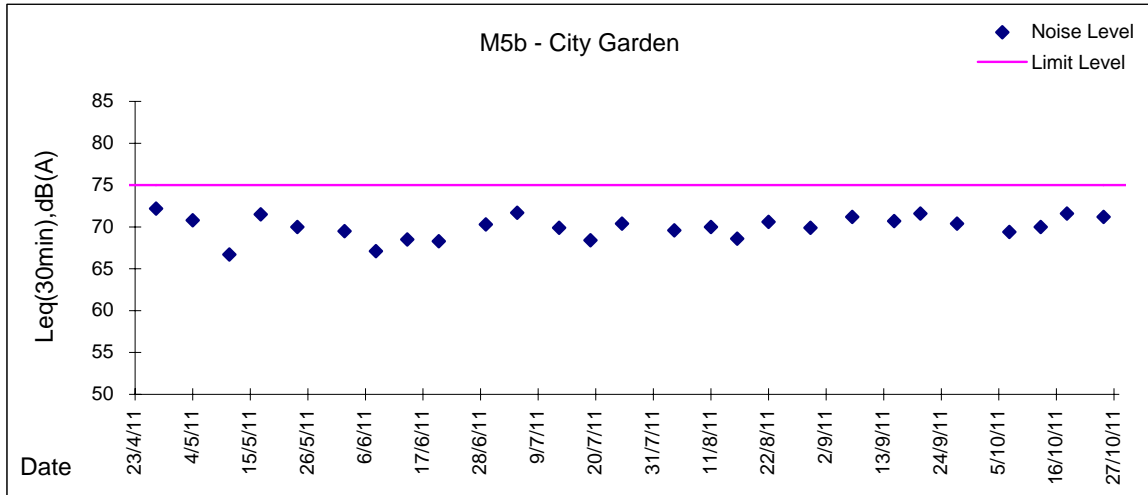
**Graphic Presentation of Noise Monitoring Result**

**Day Time (0700 - 1900hrs on normal weekdays)**





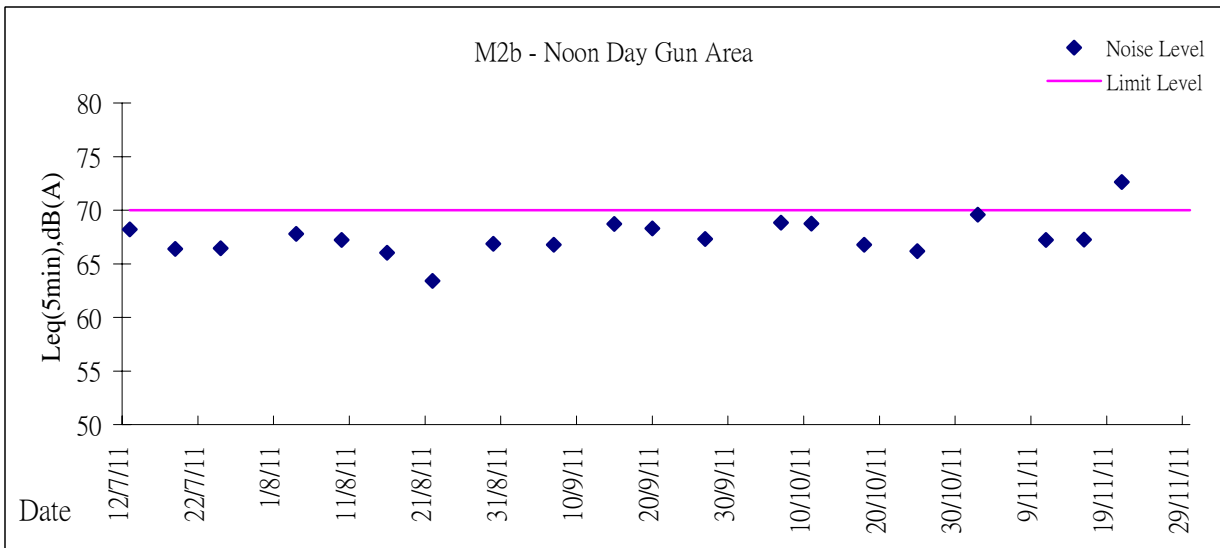
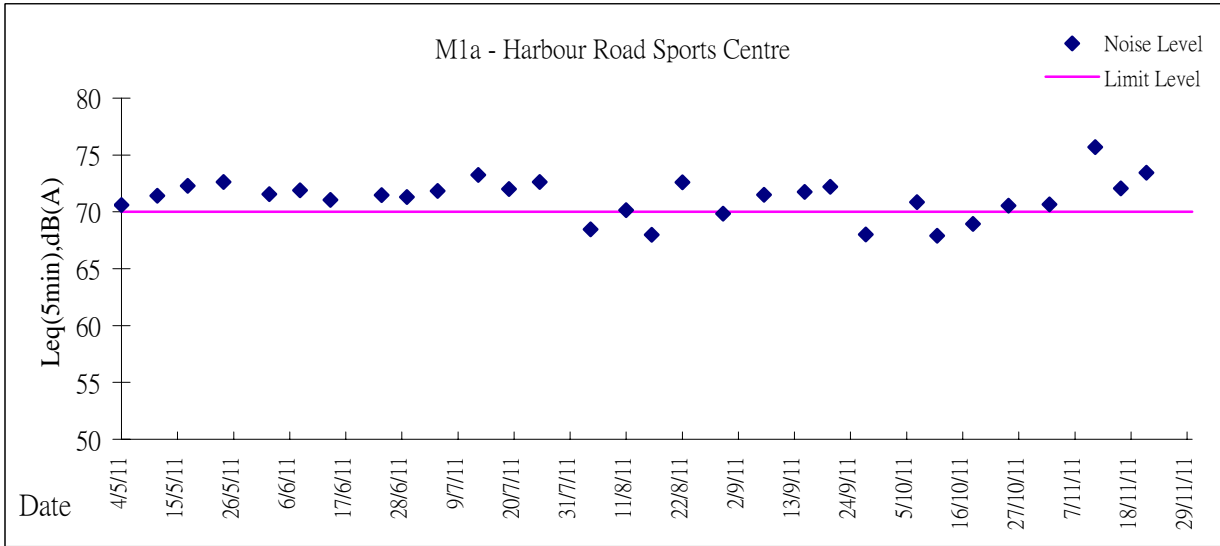
**Graphic Presentation of Noise Monitoring Result**  
**Day Time (0700 - 1900hrs on normal weekdays)**

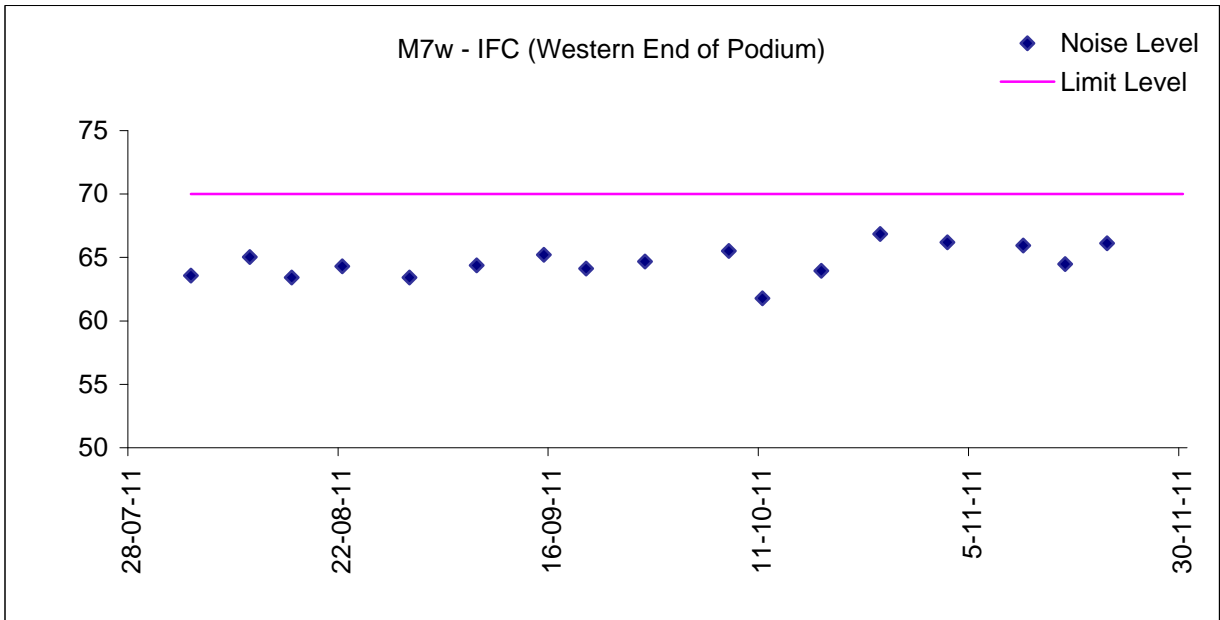
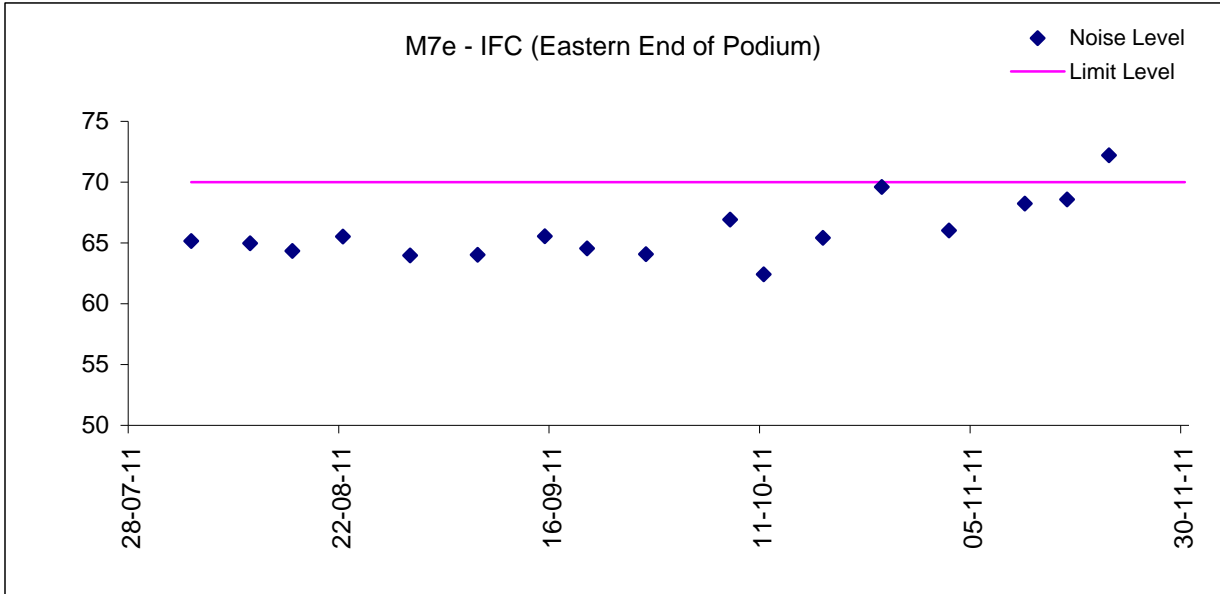




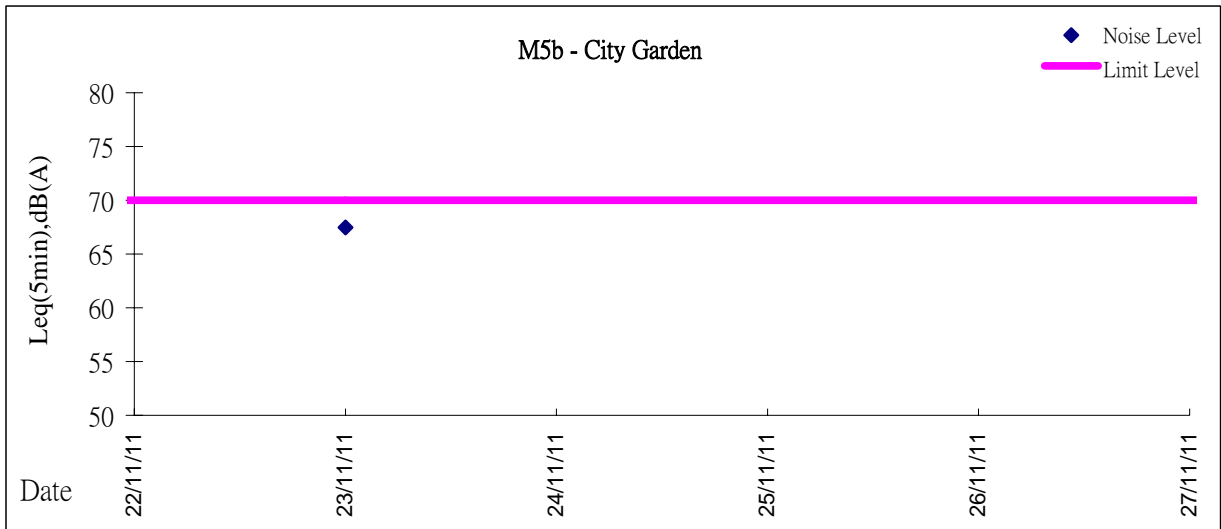
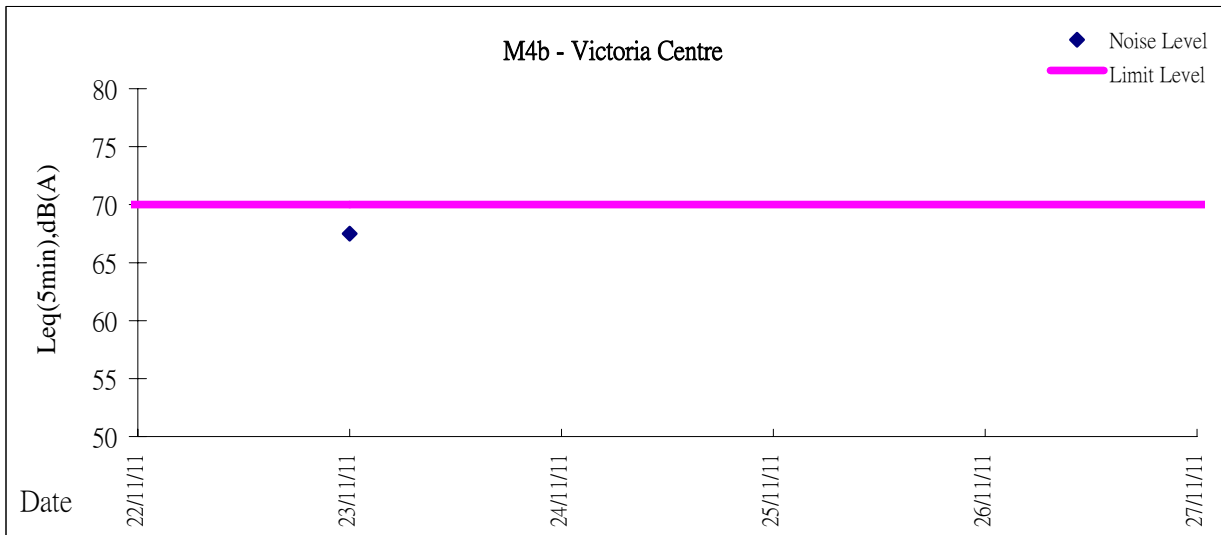
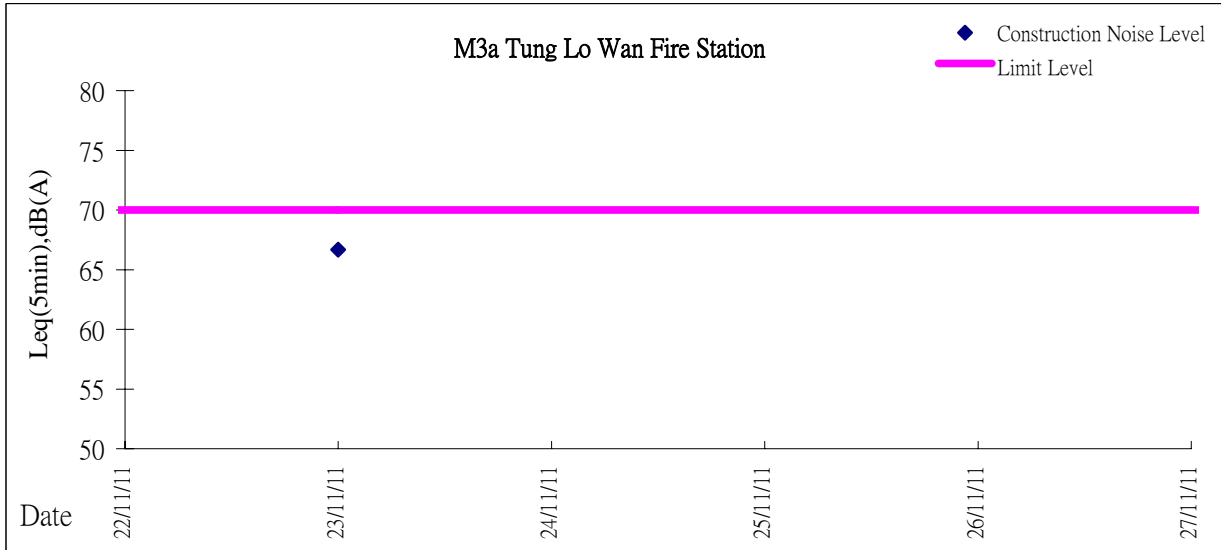
**Graphic Presentation of Noise Monitoring Result**

**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: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring

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

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
19/11/2011*	15:00	Fine	001585	2.7547	2.8549	77.08	101.08	24.00	1.31	1.32	1.32	1895	53
24/11/2011	8:00	Fine	001584	2.7428	2.9485	101.08	125.08	24.00	1.32	1.32	1.32	1905	108

The TSP monitoring at CMA1b was reinstated on 14 November 2011 as the permission of HVS installation was granted from the FEHD depot owner  
 \*Due to lack of electricity supply, 24hr-TSP was rescheduled from 18 November 2011 to 19 November 2011

Report on 1-hour TSP monitoring

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

Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
14/11/2011	8:00	Fine	001467	2.7784	2.7954	58.38	59.38	1.00	1.32	1.32	1.32	79	215
14/11/2011	13:00	Fine	001452	2.7510	2.7653	59.38	60.37	0.99	1.32	1.32	1.32	78	182
14/11/2011	16:49	Fine	001546	2.7748	2.7878	60.37	61.40	1.03	1.32	1.32	1.32	82	159
19/11/2011	8:00	Fine	001464	2.7567	2.7647	74.08	75.08	1.00	1.31	1.31	1.31	79	102
19/11/2011	9:35	Fine	001590	2.7628	2.7709	75.08	76.08	1.00	1.31	1.31	1.31	79	103
19/11/2011	13:00	Fine	001586	2.7662	2.7712	76.08	77.08	1.00	1.31	1.31	1.31	79	63
25/11/2011	8:30	Fine	001599	2.7694	2.7868	125.08	126.08	1.00	1.32	1.32	1.32	79	219
25/11/2011	10:26	Fine	001620	2.7810	2.7911	126.08	127.08	1.00	1.37	1.37	1.37	82	123
25/11/2011	13:00	Fine	001618	2.7504	2.7615	127.08	128.08	1.00	1.32	1.32	1.32	79	140



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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
1-Nov-11	8:00	Fine	001392	2.7717	2.9308	9819.86	9843.87	24.01	1.38	1.38	1.38	1988	80
7-Nov-11	8:00	Cloudy	001440	2.7928	2.9026	9846.87	9870.86	23.99	1.40	1.40	1.40	2018	54
12-Nov-11	8:00	Fine	001516	2.7781	2.9228	9873.86	9897.86	24.00	1.39	1.39	1.39	1995	73
18-Nov-11	8:00	Fine	001550	2.7516	2.8599	9900.87	9924.87	24.00	1.37	1.38	1.38	1980	55
24-Nov-11	8:00	Fine	001626	2.7645	3.0149	9927.82	9951.86	24.04	1.36	1.36	1.36	1964	127

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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
2-Nov-11	8:05	Fine	001428	2.7925	2.8045	9843.87	9844.87	1.00	1.41	1.41	1.41	84	142
2-Nov-11	9:08	Fine	001430	2.7738	2.7840	9844.87	9845.87	1.00	1.41	1.41	1.41	84	121
2-Nov-11	10:15	Fine	001432	2.7832	2.7921	9845.87	9846.87	1.00	1.41	1.41	1.41	84	105
8-Nov-11	8:58	Cloudy	001505	2.7556	2.7594	9870.86	9871.86	1.00	1.41	1.41	1.41	84	45
8-Nov-11	10:04	Cloudy	001503	2.7641	2.7674	9871.86	9872.86	1.00	1.41	1.41	1.41	84	39
8-Nov-11	11:00	Cloudy	001499	2.7686	2.7718	9872.86	9873.86	1.00	1.41	1.41	1.41	84	38
14-Nov-11	13:00	Fine	001451	2.7732	2.7862	9897.86	9898.86	1.00	1.38	1.38	1.38	83	156
14-Nov-11	14:46	Fine	001545	2.7658	2.7779	9898.86	9899.87	1.01	1.38	1.38	1.38	84	144
14-Nov-11	15:51	Fine	001547	2.7634	2.7743	9899.87	9900.87	1.00	1.38	1.38	1.38	83	131
19-Nov-11	8:15	Fine	001465	2.7632	2.7707	9924.87	9925.87	1.00	1.38	1.38	1.38	83	91
19-Nov-11	9:30	Fine	001538	2.7636	2.7747	9925.87	9926.87	1.00	1.38	1.38	1.38	83	134
19-Nov-11	13:00	Fine	001574	2.8449	2.8501	9926.87	9927.87	1.00	1.38	1.38	1.38	83	63
25-Nov-11	8:37	Fine	001625	2.7638	2.7803	9951.86	9952.86	1.00	1.39	1.38	1.39	83	198
25-Nov-11	10:15	Fine	001621	2.7892	2.8021	9952.86	9953.86	1.00	1.39	1.39	1.39	83	155
25-Nov-11	13:00	Fine	001619	2.7974	2.8083	9953.86	9954.86	1.00	1.41	1.41	1.41	85	128



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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
1-Nov-11	8:00	Fine	001497	2.7602	2.9928	10388.61	10412.37	23.76	1.43	1.43	1.43	2046	114
7-Nov-11	8:00	Cloudy	001520	2.7782	2.9203	10415.37	10439.37	24.00	1.46	1.46	1.46	2098	68
12-Nov-11	8:00	Fine	001540	2.7867	2.9609	10442.37	10466.37	24.00	1.44	1.44	1.44	2074	84
18-Nov-11	8:00	Fine	001535	2.7546	2.8799	10469.37	10492.45	23.08	1.48	1.48	1.48	2052	61
24-Nov-11	8:00	Fine	001580	2.7732	3.1018	10495.45	10519.41	23.96	1.50	1.50	1.50	2151	153

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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
2-Nov-11	9:37	Fine	001476	2.7671	2.7797	10412.37	10413.37	1.00	1.36	1.36	1.36	81	155
2-Nov-11	13:00	Fine	001433	2.7838	2.7968	10413.37	10414.37	1.00	1.38	1.38	1.38	83	157
2-Nov-11	15:00	Fine	001471	2.7770	2.7912	10414.37	10415.37	1.00	1.38	1.38	1.38	83	171
8-Nov-11	9:10	Cloudy	001518	2.7710	2.7762	10439.37	10440.37	1.00	1.54	1.54	1.54	92	56
8-Nov-11	10:15	Cloudy	001517	2.7762	2.7822	10440.37	10441.37	1.00	1.28	1.28	1.28	77	78
8-Nov-11	13:00	Cloudy	001446	2.7712	2.7773	10441.37	10442.37	1.00	1.43	1.43	1.43	86	71
14-Nov-11	13:03	Fine	001455	2.7552	2.7691	10466.37	10467.37	1.00	1.41	1.41	1.41	85	164
14-Nov-11	14:55	Fine	001457	2.7611	2.7766	10467.37	10468.37	1.00	1.44	1.44	1.44	86	179
14-Nov-11	16:10	Fine	001533	2.7477	2.7616	10468.37	10469.37	1.00	1.41	1.41	1.41	85	164
19-Nov-11	8:35	Fine	001453	2.7812	2.7905	10492.45	10493.45	1.00	1.41	1.41	1.41	84	110
19-Nov-11	10:00	Fine	001572	2.8325	2.8421	10493.45	10494.45	1.00	1.43	1.43	1.43	86	112
19-Nov-11	13:00	Fine	001587	2.7609	2.7673	10494.45	10495.45	1.00	1.41	1.41	1.41	84	76
25-Nov-11	9:15	Fine	001600	2.7685	2.7881	10519.41	10520.41	1.00	1.50	1.49	1.49	90	219
25-Nov-11	13:00	Fine	001591	2.7827	2.8006	10520.41	10521.41	1.00	1.44	1.44	1.44	87	207
25-Nov-11	15:15	Fine	001606	2.7494	2.7664	10521.41	10522.41	1.00	1.44	1.44	1.44	87	196



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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
1-Nov-11	8:00	Fine	001498	2.7650	2.9099	14038.31	14062.31	24.00	1.13	1.13	1.13	1621	89
7-Nov-11	8:00	Cloudy	001511	2.7514	2.8226	14065.31	14089.30	23.99	1.05	1.05	1.05	1516	47
12-Nov-11	8:00	Fine	001448	2.7739	2.9055	14092.31	14116.31	24.00	1.13	1.13	1.13	1627	81
18-Nov-11	8:00	Fine	001534	2.7527	2.8379	14119.30	14143.30	24.00	1.10	1.10	1.10	1582	54
24-Nov-11	8:00	Fine	001627	2.7866	3.0045	14146.30	14170.30	24.00	1.16	1.16	1.16	1664	131

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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
2-Nov-11	9:22	Fine	001477	2.7721	2.7788	14062.31	14063.31	1.00	1.01	1.01	1.01	61	111
2-Nov-11	13:00	Fine	001439	2.7892	2.7961	14063.31	14064.31	1.00	1.10	1.10	1.10	66	104
2-Nov-11	14:55	Fine	001482	2.7875	2.7943	14064.31	14065.31	1.00	1.06	1.06	1.06	63	107
8-Nov-11	8:56	Cloudy	001519	2.7907	2.7935	14089.30	14090.30	1.00	1.10	1.10	1.10	66	42
8-Nov-11	10:05	Cloudy	001443	2.7812	2.7850	14090.30	14091.30	1.00	1.15	1.15	1.15	69	55
8-Nov-11	13:22	Cloudy	001447	2.7612	2.7648	14091.30	14092.30	1.00	1.15	1.15	1.15	69	52
14-Nov-11	13:00	Fine	001454	2.7507	2.7602	14116.30	14117.30	1.00	1.11	1.11	1.11	66	143
14-Nov-11	14:52	Fine	001531	2.7655	2.7744	14117.30	14118.30	1.00	1.11	1.11	1.11	66	134
14-Nov-11	16:56	Fine	001532	2.7557	2.7630	14118.30	14119.30	1.00	1.11	1.11	1.11	66	110
19-Nov-11	8:32	Fine	001536	2.7355	2.7423	14143.30	14144.30	1.00	1.10	1.10	1.10	66	103
19-Nov-11	9:50	Fine	001571	2.8522	2.8573	14144.30	14145.30	1.00	1.10	1.10	1.10	66	77
19-Nov-11	10:53	Fine	001573	2.8285	2.8338	14145.30	14146.30	1.00	1.10	1.10	1.10	66	80
25-Nov-11	9:09	Fine	001624	2.7828	2.7927	14170.30	14171.30	1.00	1.16	1.15	1.15	69	143
25-Nov-11	13:00	Fine	001592	2.7540	2.7629	14171.30	14172.30	1.00	1.16	1.16	1.16	69	128
25-Nov-11	15:00	Fine	001605	2.7661	2.7753	14172.30	14173.30	1.00	1.16	1.16	1.16	69	133



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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
1-Nov-11	8:00	Fine	001393	2.7831	2.9374	15021.19	15045.18	23.99	1.18	1.18	1.18	1693	91
7-Nov-11	8:00	Cloudy	001481	2.7868	2.8917	15048.18	15072.18	24.00	1.17	1.17	1.17	1688	62
12-Nov-11	8:00	Fine	001469	2.7843	2.9289	15075.18	15099.18	24.00	1.21	1.21	1.21	1742	83
18-Nov-11	8:00	Fine	001459	2.7614	2.8833	15102.18	15126.18	24.00	1.17	1.17	1.17	1686	72
24-Nov-11	8:00	Fine	001577	2.7806	3.0177	15129.18	15153.17	23.99	1.18	1.19	1.18	1705	139

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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
2-Nov-11	8:45	Fine	001475	2.7631	2.7760	15045.18	15046.18	1.00	1.06	1.06	1.06	64	202
2-Nov-11	10:00	Fine	001479	2.7729	2.7816	15046.18	15047.18	1.00	1.09	1.09	1.09	66	133
2-Nov-11	13:00	Fine	001435	2.7833	2.7894	15047.18	15048.18	1.00	1.06	1.06	1.06	64	96
8-Nov-11	8:10	Cloudy	001470	2.7838	2.7879	15072.18	15073.18	1.00	1.26	1.26	1.26	76	54
8-Nov-11	9:15	Cloudy	001441	2.7849	2.7895	15073.18	15074.18	1.00	1.26	1.26	1.26	76	61
8-Nov-11	10:35	Cloudy	001449	2.7622	2.7668	15074.18	15075.18	1.00	1.26	1.26	1.26	76	61
14-Nov-11	9:46	Fine	001514	2.7775	2.7892	15099.18	15100.18	1.00	1.24	1.24	1.24	74	158
14-Nov-11	13:15	Fine	001456	2.7570	2.7681	15100.18	15101.18	1.00	1.24	1.24	1.24	74	150
14-Nov-11	14:40	Fine	001483	2.7907	2.8036	15101.18	15102.18	1.00	1.24	1.24	1.24	74	174
19-Nov-11	8:50	Fine	001537	2.7547	2.7654	15126.18	15127.18	1.00	1.23	1.23	1.23	74	145
19-Nov-11	9:50	Fine	001589	2.7616	2.7720	15127.18	15128.18	1.00	1.23	1.23	1.23	74	141
19-Nov-11	13:00	Fine	001575	2.8468	2.8560	15128.18	15129.18	1.00	1.23	1.23	1.23	74	125
25-Nov-11	8:10	Fine	001597	2.7663	2.7811	15153.17	15154.17	1.00	1.24	1.24	1.24	74	199
25-Nov-11	9:30	Fine	001623	2.7783	2.7917	15154.17	15155.17	1.00	1.24	1.24	1.24	74	180
25-Nov-11	13:19	Fine	001601	2.7675	2.7775	15155.17	15156.17	1.00	1.24	1.24	1.24	74	134



Location: MA1e - International Finance Centre (Eastern Wing)

## Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 173.4Limit 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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
1-Nov-11	8:00	Fine	001406	2.7904	2.9178	7661.25	7685.25	24.00	1.07	1.07	1.07	1546	82
7-Nov-11	8:00	Cloudy	001508	2.7656	2.8415	7688.25	7712.25	24.00	1.23	1.23	1.23	1769	43
12-Nov-11	8:00	Fine	001527	2.8371	2.9841	7715.25	7739.25	24.00	1.24	1.24	1.24	1781	83
18-Nov-11	8:00	Fine	001564	2.7482	2.8972	7742.25	7766.25	24.00	1.18	1.18	1.18	1703	88
24-Nov-11	8:00	Fine	001530	2.7491	2.9823	7769.25	7793.25	24.00	1.24	1.24	1.24	1784	131

## Report on 1-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 325.1Limit 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, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
2-Nov-11	8:29	Fine	001490	2.7845	2.7950	7685.25	7686.25	1.00	1.23	1.23	1.23	74	142
2-Nov-11	9:34	Fine	001488	2.7695	2.7784	7686.25	7687.25	1.00	1.23	1.23	1.23	74	120
2-Nov-11	10:46	Fine	001510	2.7533	2.7733	7687.25	7688.25	1.00	1.23	1.23	1.23	74	271
8-Nov-11	8:48	Cloudy	001521	2.7741	2.7759	7712.25	7713.25	1.00	1.23	1.23	1.23	74	24
8-Nov-11	9:54	Cloudy	001523	2.8455	2.8471	7713.25	7714.25	1.00	1.23	1.23	1.23	74	22
8-Nov-11	10:58	Cloudy	001525	2.8318	2.8342	7714.26	7715.26	1.00	1.23	1.23	1.23	74	32
14-Nov-11	8:23	Fine	001549	2.7735	2.7845	7739.25	7740.25	1.00	1.24	1.24	1.24	74	148
14-Nov-11	9:28	Fine	001541	2.7689	2.7799	7740.25	7741.25	1.00	1.24	1.24	1.24	74	148
14-Nov-11	10:33	Fine	001543	2.7695	2.7823	7741.25	7742.25	1.00	1.24	1.24	1.24	74	173
19-Nov-11	8:20	Fine	001565	2.7440	2.7484	7766.25	7767.25	1.00	1.23	1.23	1.23	74	60
19-Nov-11	9:24	Fine	001567	2.7557	2.7637	7767.25	7768.25	1.00	1.23	1.23	1.23	74	109
19-Nov-11	10:31	Fine	001569	2.7596	2.7665	7768.25	7769.25	1.00	1.23	1.23	1.23	74	94
25-Nov-11	8:19	Fine	001555	2.7583	2.7706	7793.25	7794.25	1.00	1.24	1.24	1.24	74	166
25-Nov-11	9:42	Fine	001557	2.7730	2.7812	7794.25	7795.25	1.00	1.24	1.24	1.24	74	110
25-Nov-11	10:45	Fine	001559	2.7573	2.7655	7795.25	7796.25	1.00	1.24	1.24	1.24	74	110





Location: MA1w - International Finance Centre (Western Wing)

## Report on 24-hour TSP monitoring

Action Level ( $\mu\text{g}/\text{m}^3$ ) - 173.4Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 260

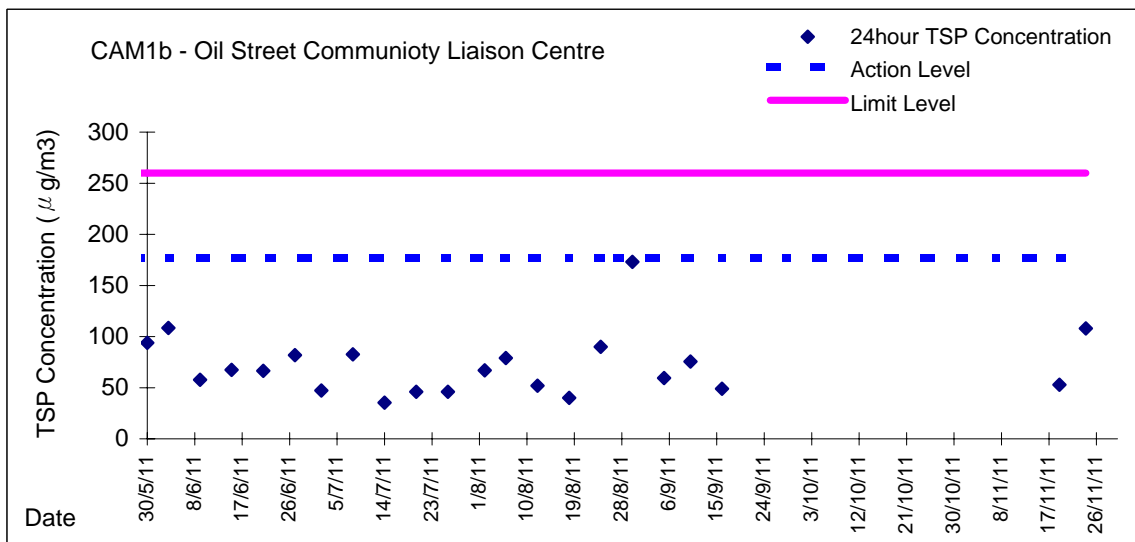
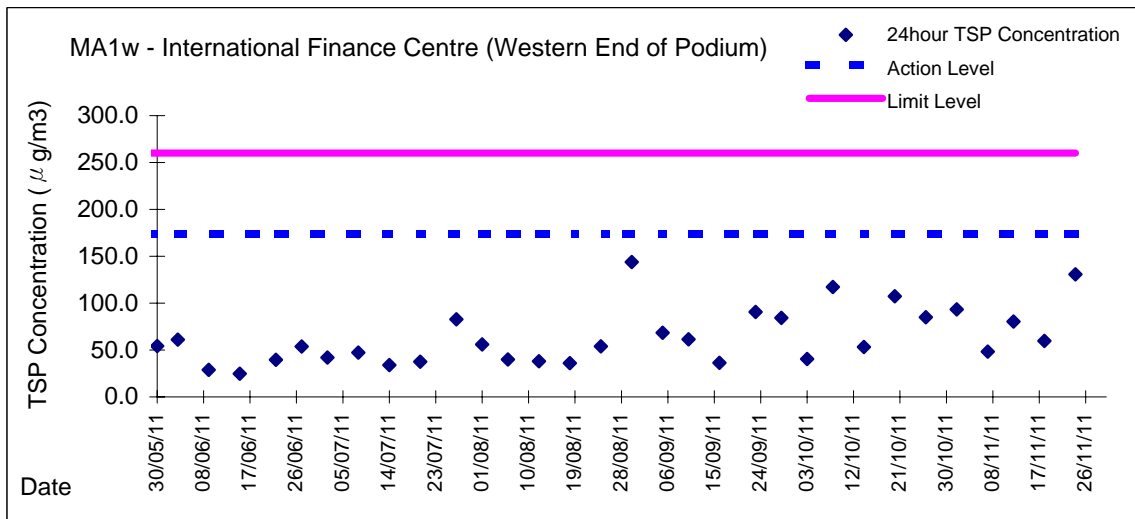
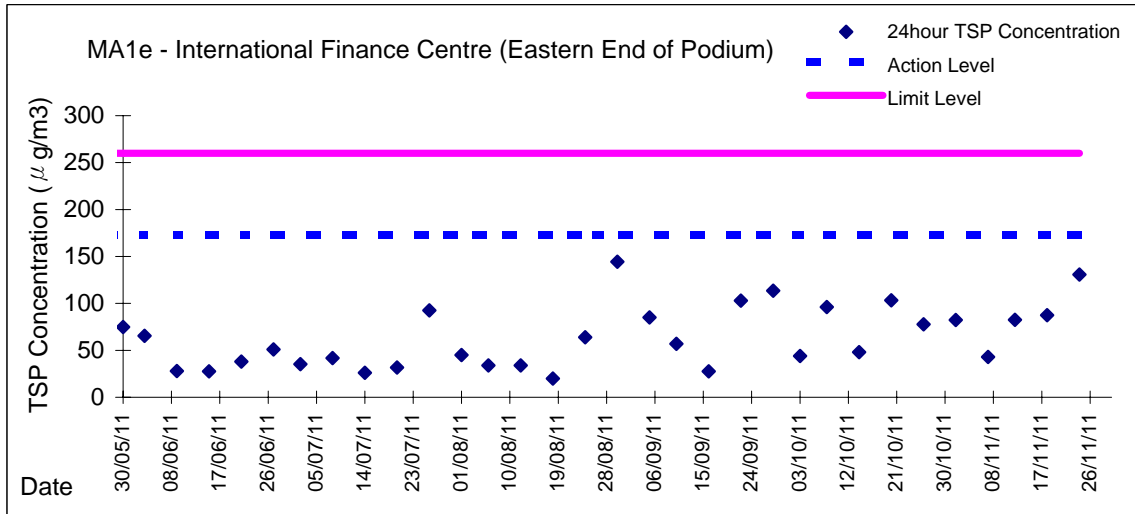
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
1-Nov-11	8:00	Fine	001397	2.7876	2.9706	10838.66	10862.66	24.00	1.36	1.36	1.36	1961	93
7-Nov-11	8:00	Cloudy	001507	2.7562	2.8558	10865.66	10889.66	24.00	1.43	1.43	1.43	2062	48
12-Nov-11	8:00	Fine	001528	2.7798	2.9408	10892.66	10916.66	24.00	1.39	1.39	1.39	2004	80
18-Nov-11	8:00	Fine	001563	2.7511	2.8698	10919.66	10943.66	24.00	1.38	1.38	1.38	1989	60
24-Nov-11	8:00	Fine	001529	2.7638	3.0311	10946.66	10970.66	24.00	1.42	1.42	1.42	2044	131

## Report on 1-hour TSP monitoring

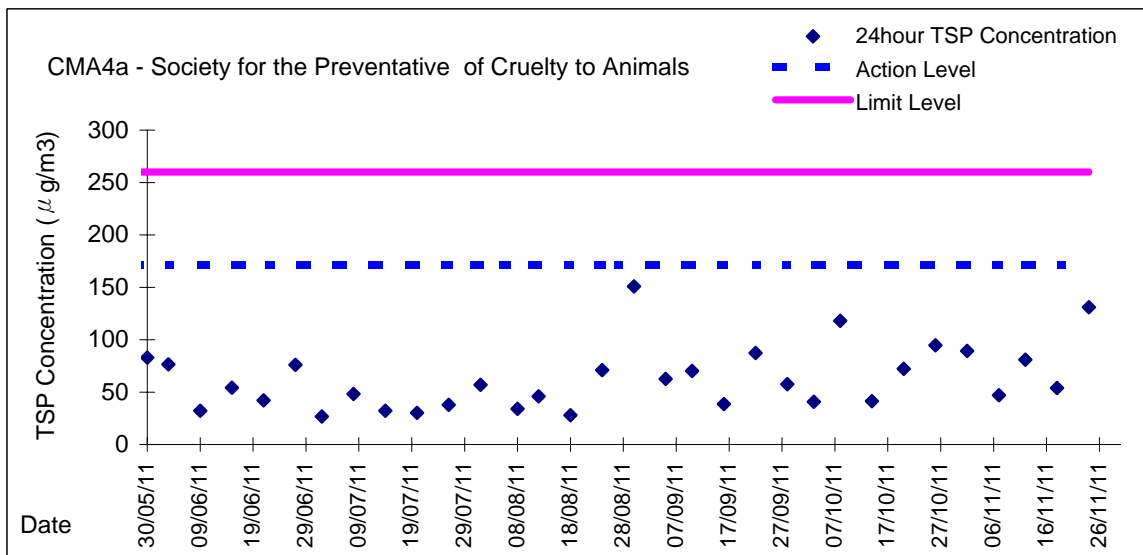
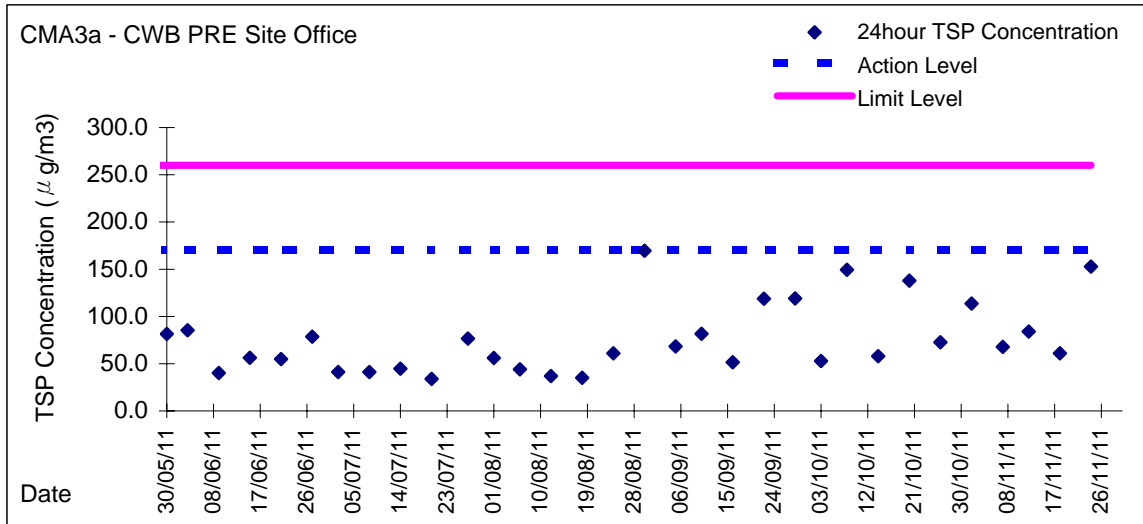
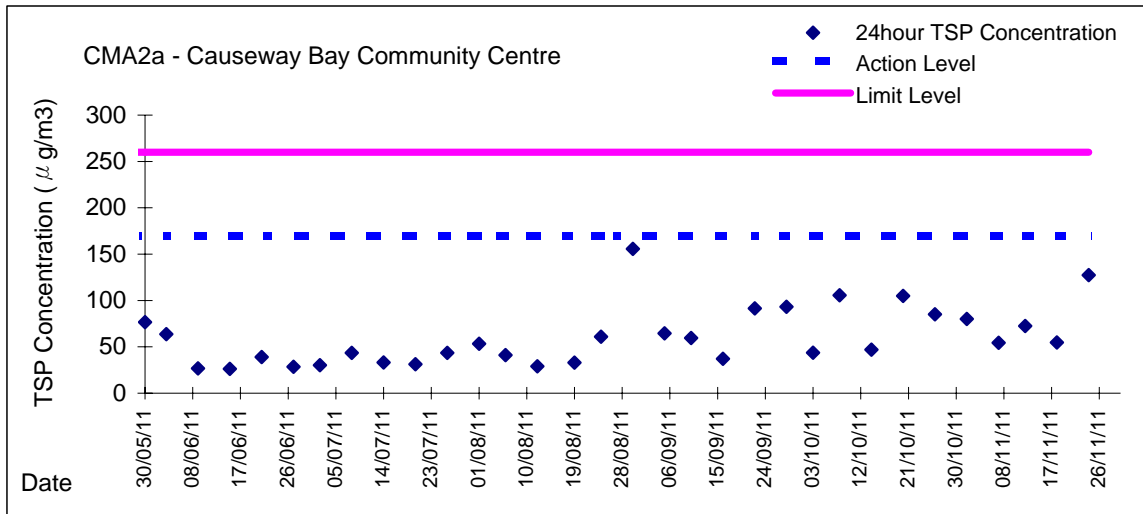
Action Level ( $\mu\text{g}/\text{m}^3$ ) - 325.1Limit Level ( $\mu\text{g}/\text{m}^3$ ) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, $\text{m}^3/\text{min}$			Total Volume, $\text{m}^3$	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, $Q_{si}$	Final, $Q_{sf}$	Average		
2-Nov-11	8:37	Fine	001489	2.7759	2.7866	10862.66	10863.66	1.00	1.41	1.41	1.41	85	126
2-Nov-11	9:41	Fine	001487	2.7791	2.7885	10863.66	10864.66	1.00	1.44	1.44	1.44	86	109
2-Nov-11	10:53	Fine	001509	2.7572	2.7637	10864.66	10865.66	1.00	1.41	1.41	1.41	85	77
8-Nov-11	8:58	Cloudy	001522	2.8043	2.8071	10889.66	10890.66	1.00	1.39	1.39	1.39	83	34
8-Nov-11	10:00	Cloudy	001524	2.8350	2.8385	10890.67	10891.67	1.00	1.39	1.39	1.39	83	42
8-Nov-11	11:00	Cloudy	001526	2.8371	2.8405	10891.66	10892.66	1.00	1.44	1.44	1.44	86	39
14-Nov-11	8:31	Fine	001548	2.7630	2.7754	10916.66	10917.66	1.00	1.42	1.42	1.42	85	146
14-Nov-11	9:35	Fine	001542	2.7612	2.7727	10917.66	10918.66	1.00	1.42	1.42	1.42	85	135
14-Nov-11	10:39	Fine	001544	2.7599	2.7722	10918.66	10919.66	1.00	1.37	1.37	1.37	82	150
19-Nov-11	8:28	Fine	001566	2.7606	2.7669	10943.66	10944.66	1.00	1.41	1.41	1.41	84	75
19-Nov-11	9:31	Fine	001568	2.7543	2.7626	10944.66	10945.66	1.00	1.41	1.41	1.41	84	98
19-Nov-11	10:40	Fine	001570	2.7539	2.7609	10945.66	10946.66	1.00	1.33	1.33	1.33	80	87
25-Nov-11	8:27	Fine	001556	2.7628	2.7787	10970.66	10971.66	1.00	1.42	1.42	1.42	85	187
25-Nov-11	9:48	Fine	001558	2.7595	2.7710	10971.66	10972.66	1.00	1.42	1.42	1.42	85	135
25-Nov-11	10:53	Fine	001560	2.7554	2.7658	10972.66	10973.66	1.00	1.42	1.42	1.42	85	122

**Graphic Presentation of 24 hour TSP Result**

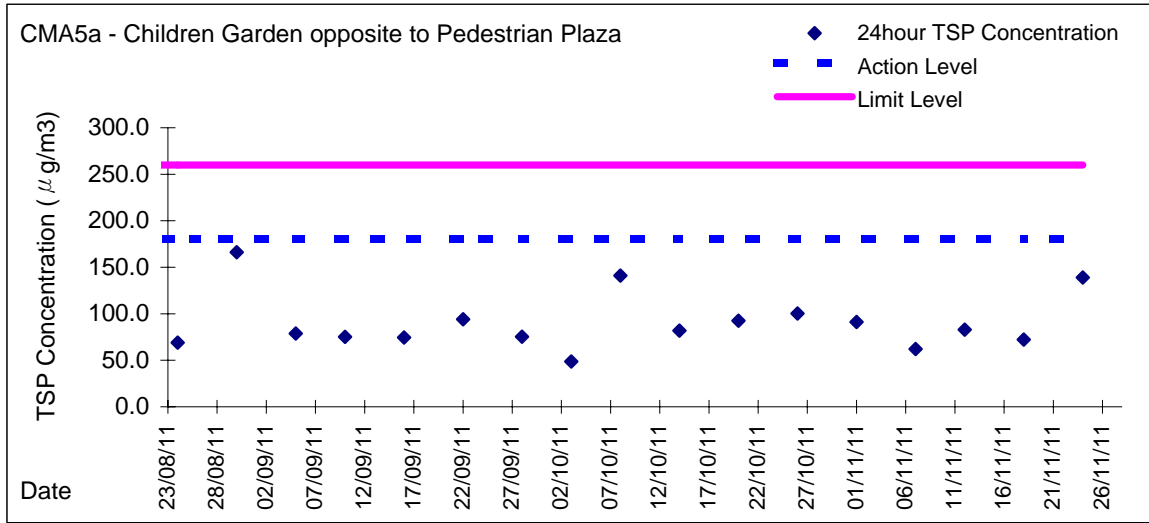


**Graphic Presentation of 24 hour TSP Result**



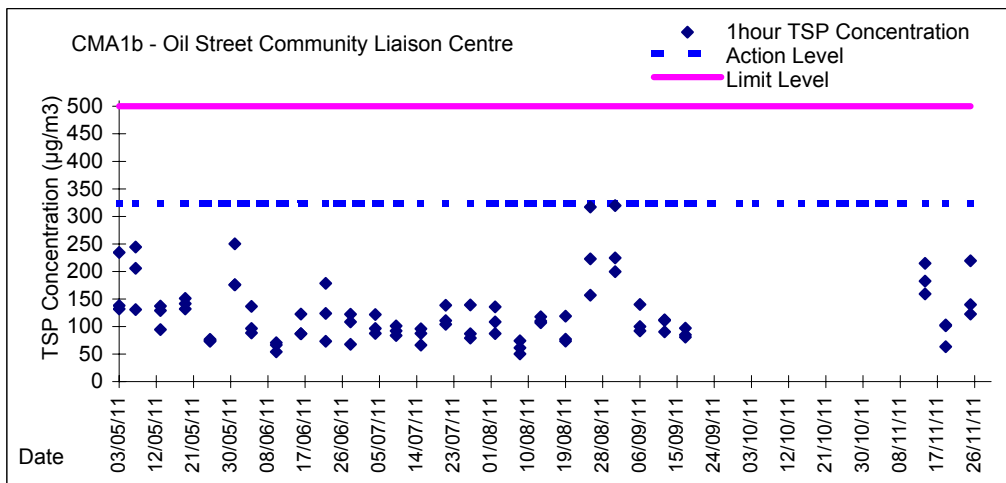
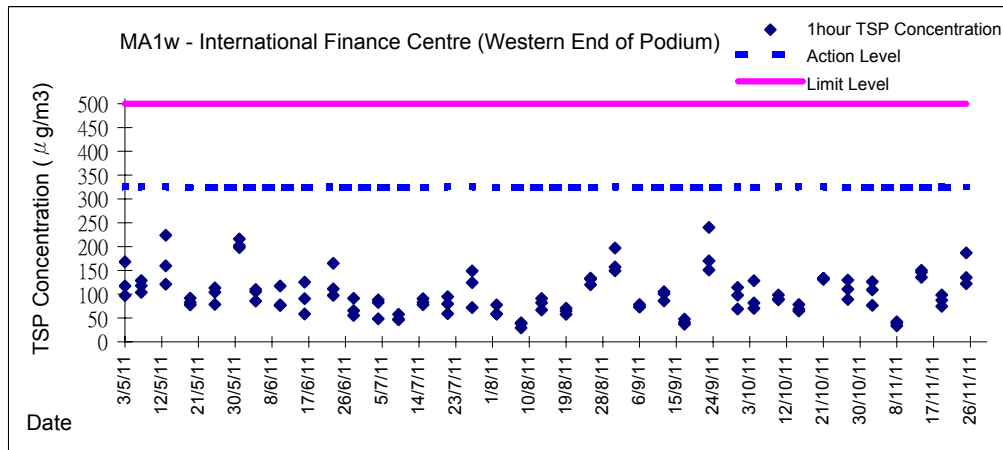
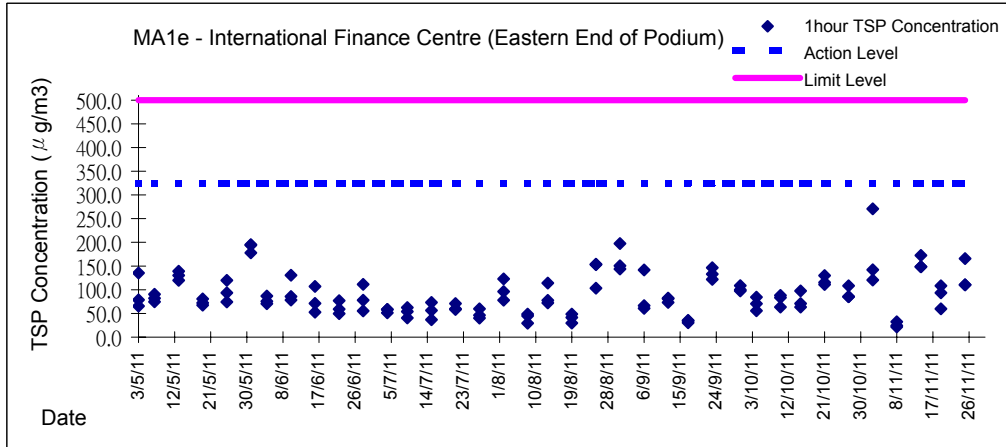


Graphic Presentation of 24 hour TSP Result

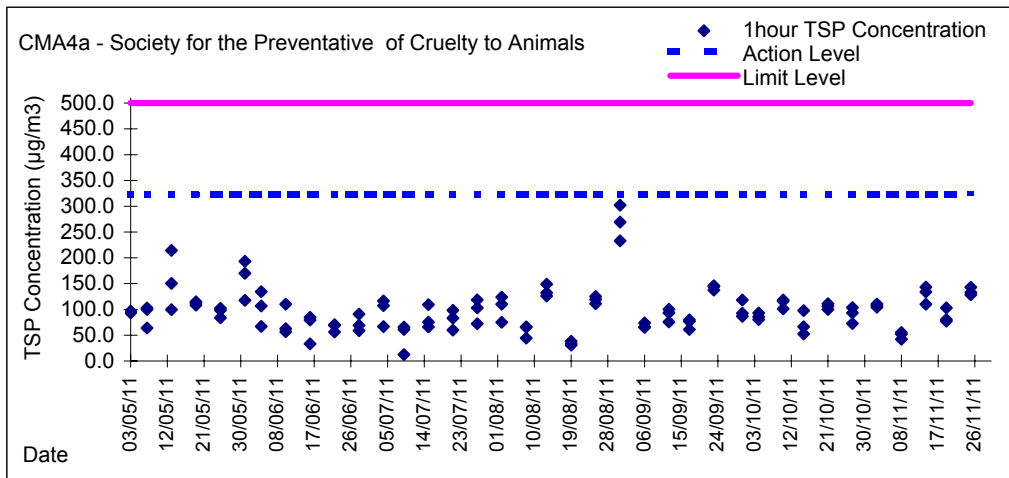
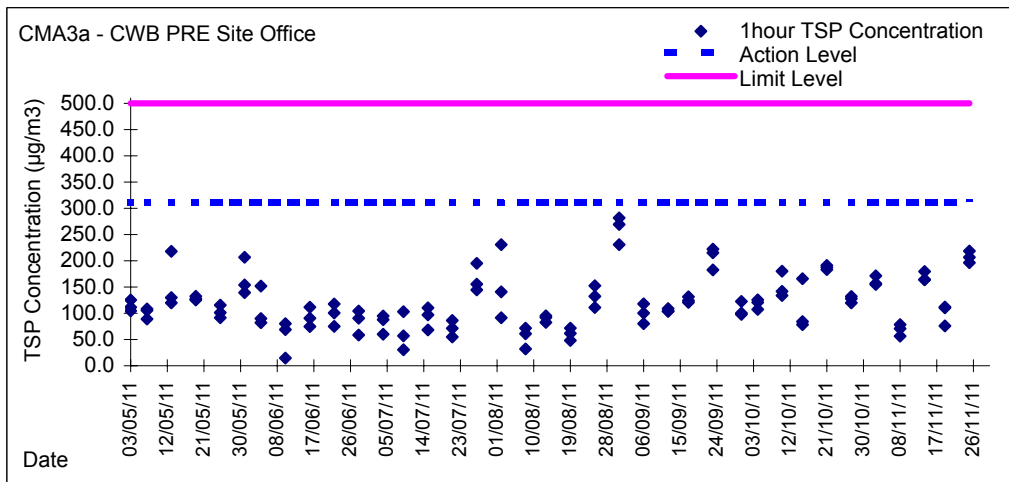
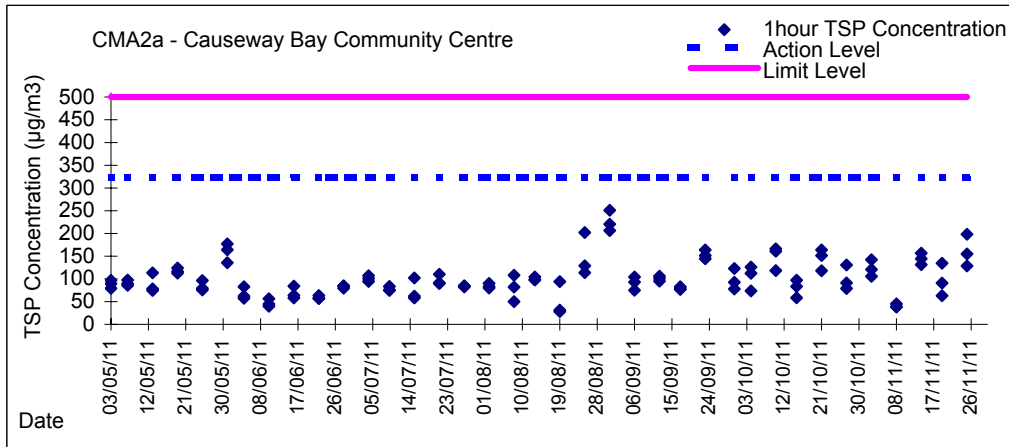




Graphic Presentation of 1 hour TSP Result

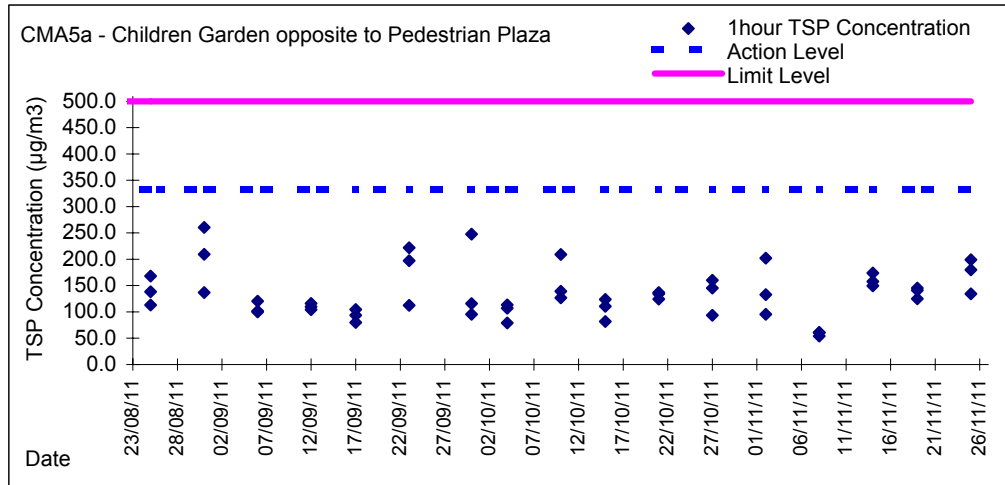


Graphic Presentation of 1 hour TSP Result





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	2/11/2011 13:31 68.5	8/11/2011 8:31 66.4	12/11/2011 15:31 66.4	18/11/2011 10:31 71.9	23/11/2011 17:31 66.6
28/10/2011 7:01 64.9	2/11/2011 14:01 69.0	8/11/2011 9:01 67.6	12/11/2011 16:01 68.5	18/11/2011 11:01 69.8	23/11/2011 18:01 65.8
28/10/2011 7:31 65.5	2/11/2011 14:31 69.1	8/11/2011 9:31 69.0	12/11/2011 16:31 66.6	18/11/2011 11:31 69.7	23/11/2011 18:31 65.2
28/10/2011 8:01 69.4	2/11/2011 15:01 68.7	8/11/2011 10:01 70.9	12/11/2011 17:01 66.1	18/11/2011 12:01 65.5	24/11/2011 7:01 64.7
28/10/2011 8:31 71.4	2/11/2011 15:31 67.7	8/11/2011 10:31 70.1	12/11/2011 17:31 65.9	18/11/2011 12:31 64.8	24/11/2011 7:31 65.5
28/10/2011 9:01 68.3	2/11/2011 16:01 67.0	8/11/2011 11:01 69.3	12/11/2011 18:01 64.1	18/11/2011 13:01 70.3	24/11/2011 8:01 66.2
28/10/2011 9:31 69.4	2/11/2011 16:31 69.6	8/11/2011 11:31 69.2	12/11/2011 18:31 64.3	18/11/2011 13:31 68.4	24/11/2011 8:31 68.2
28/10/2011 10:01 69.9	2/11/2011 17:01 67.9	8/11/2011 12:01 65.5	14/11/2011 7:01 65.0	18/11/2011 14:01 71.6	24/11/2011 9:01 65.7
28/10/2011 10:31 71.5	2/11/2011 17:31 67.2	8/11/2011 12:31 65.2	14/11/2011 7:31 65.4	18/11/2011 14:31 70.2	24/11/2011 9:31 69.1
28/10/2011 11:01 66.4	2/11/2011 18:01 66.2	8/11/2011 13:01 71.9	14/11/2011 8:01 66.1	18/11/2011 15:01 70.4	24/11/2011 10:01 67.9
28/10/2011 11:31 70.6	2/11/2011 18:31 64.8	8/11/2011 13:31 71.9	14/11/2011 8:31 66.9	18/11/2011 15:31 73.2	24/11/2011 10:31 67.2
28/10/2011 12:01 65.2	3/11/2011 7:01 65.6	8/11/2011 14:01 69.8	14/11/2011 9:01 67.5	18/11/2011 16:01 72.7	24/11/2011 11:01 66.7
28/10/2011 12:31 65.3	3/11/2011 7:31 65.8	8/11/2011 14:31 68.1	14/11/2011 9:31 68.4	18/11/2011 16:31 70.6	24/11/2011 11:31 64.4
28/10/2011 13:01 70.1	3/11/2011 8:01 65.1	8/11/2011 15:01 69.3	14/11/2011 10:01 69.3	18/11/2011 17:01 70.9	24/11/2011 12:01 64.2
28/10/2011 13:31 70.8	3/11/2011 8:31 68.0	8/11/2011 15:31 69.3	14/11/2011 10:31 69.5	18/11/2011 17:31 67.1	24/11/2011 12:31 68.8
28/10/2011 14:01 68.8	3/11/2011 9:01 68.0	8/11/2011 16:01 67.6	14/11/2011 11:01 70.8	18/11/2011 18:01 64.7	24/11/2011 13:01 66.4
28/10/2011 14:31 68.0	3/11/2011 9:31 67.2	8/11/2011 16:31 69.1	14/11/2011 11:31 72.3	18/11/2011 18:31 64.2	24/11/2011 13:31 69.2
28/10/2011 15:01 73.5	3/11/2011 10:01 71.2	8/11/2011 17:01 68.5	14/11/2011 12:01 65.3	19/11/2011 7:01 64.0	24/11/2011 14:01 68.8
28/10/2011 15:31 67.2	3/11/2011 10:31 70.9	8/11/2011 17:31 66.9	14/11/2011 12:31 65.9	19/11/2011 7:31 65.8	24/11/2011 14:31 66.6
28/10/2011 16:01 68.0	3/11/2011 11:01 70.5	8/11/2011 18:01 65.7	14/11/2011 13:01 67.6	19/11/2011 8:01 67.8	24/11/2011 15:01 65.1
28/10/2011 16:31 70.4	3/11/2011 11:31 67.4	8/11/2011 18:31 64.4	14/11/2011 13:31 73.3	19/11/2011 8:31 70.8	24/11/2011 15:31 70.5
28/10/2011 17:01 67.8	3/11/2011 12:01 66.3	9/11/2011 7:01 65.2	14/11/2011 14:01 71.0	19/11/2011 9:01 68.8	24/11/2011 16:01 65.6
28/10/2011 17:31 69.2	3/11/2011 12:31 65.5	9/11/2011 7:31 66.1	14/11/2011 14:31 70.6	19/11/2011 9:31 72.1	24/11/2011 16:31 67.0
28/10/2011 18:01 67.0	3/11/2011 13:01 67.3	9/11/2011 8:01 67.3	14/11/2011 15:01 69.1	19/11/2011 10:01 72.7	24/11/2011 17:01 69.0
28/10/2011 18:31 66.4	3/11/2011 13:31 68.1	9/11/2011 8:31 67.2	14/11/2011 15:31 69.9	19/11/2011 10:31 72.0	24/11/2011 17:31 66.1
29/10/2011 7:01 65.0	3/11/2011 14:01 67.5	9/11/2011 9:01 67.5	14/11/2011 16:01 69.8	19/11/2011 11:01 68.9	24/11/2011 18:01 63.5
29/10/2011 7:31 67.2	3/11/2011 14:31 68.0	9/11/2011 9:31 68.2	14/11/2011 16:31 71.3	19/11/2011 11:31 66.9	24/11/2011 18:31 62.6
29/10/2011 8:01 67.2	3/11/2011 15:01 67.8	9/11/2011 10:01 71.0	14/11/2011 17:01 70.9	19/11/2011 12:01 65.7	25/11/2011 7:01 65.2
29/10/2011 8:31 66.2	3/11/2011 15:31 72.1	9/11/2011 10:31 68.5	14/11/2011 17:31 68.5	19/11/2011 12:31 65.3	25/11/2011 7:31 64.3
29/10/2011 9:01 67.4	3/11/2011 16:01 71.0	9/11/2011 11:01 70.9	14/11/2011 18:01 65.8	19/11/2011 13:01 68.4	25/11/2011 8:01 68.3
29/10/2011 9:31 66.8	3/11/2011 16:31 67.8	9/11/2011 11:31 69.8	14/11/2011 18:31 65.3	19/11/2011 13:31 69.1	25/11/2011 8:31 63.6
29/10/2011 10:01 67.4	3/11/2011 17:01 66.9	9/11/2011 12:01 66.1	15/11/2011 7:01 65.3	19/11/2011 14:01 68.0	25/11/2011 9:01 67.5
29/10/2011 10:31 72.4	3/11/2011 17:31 66.0	9/11/2011 12:31 67.1	15/11/2011 7:31 65.5	19/11/2011 14:31 71.3	25/11/2011 9:31 67.9
29/10/2011 11:01 71.2	3/11/2011 18:01 64.8	9/11/2011 13:01 69.1	15/11/2011 8:01 67.7	19/11/2011 15:01 69.6	25/11/2011 10:01 70.4
29/10/2011 11:31 68.9	3/11/2011 18:31 63.2	9/11/2011 13:31 72.7	15/11/2011 8:31 71.1	19/11/2011 15:31 70.3	25/11/2011 10:31 68.6
29/10/2011 12:01 64.9	4/11/2011 7:01 65.1	9/11/2011 14:01 70.5	15/11/2011 9:01 70.1	19/11/2011 16:01 73.8	25/11/2011 11:01 67.2
29/10/2011 12:31 63.6	4/11/2011 7:31 65.6	9/11/2011 14:31 70.4	15/11/2011 9:31 69.1	19/11/2011 16:31 54.4	25/11/2011 11:31 66.5
29/10/2011 13:01 68.8	4/11/2011 8:01 65.6	9/11/2011 15:01 60.2	15/11/2011 10:01 71.0	19/11/2011 17:01 70.2	25/11/2011 12:01 65.1
29/10/2011 13:31 72.4	4/11/2011 8:31 67.4	9/11/2011 15:31 71.7	15/11/2011 10:31 57.6	19/11/2011 17:31 65.8	25/11/2011 12:31 64.0
29/10/2011 14:01 71.3	4/11/2011 9:01 67.3	9/11/2011 16:01 70.2	15/11/2011 11:01 71.4	19/11/2011 18:01 65.4	25/11/2011 13:01 66.7
29/10/2011 14:31 71.8	4/11/2011 9:31 67.1	9/11/2011 16:31 70.7	15/11/2011 11:31 69.1	19/11/2011 18:31 64.7	25/11/2011 13:31 67.4
29/10/2011 15:01 71.3	4/11/2011 10:01 68.2	9/11/2011 17:01 66.0	15/11/2011 12:01 67.5	21/11/2011 7:01 64.9	25/11/2011 14:01 68.4
29/10/2011 15:31 71.0	4/11/2011 10:31 68.2	9/11/2011 17:31 68.7	15/11/2011 12:31 64.8	21/11/2011 7:31 65.3	25/11/2011 14:31 67.8
29/10/2011 16:01 68.3	4/11/2011 11:01 68.3	9/11/2011 18:01 66.0	15/11/2011 13:01 70.4	21/11/2011 8:01 66.5	25/11/2011 15:01 67.0
29/10/2011 16:31 68.5	4/11/2011 11:31 66.8	9/11/2011 18:31 66.2	15/11/2011 13:31 68.3	21/11/2011 8:31 70.0	25/11/2011 15:31 66.1
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29/10/2011 17:31 64.2	4/11/2011 12:31 63.9	10/11/2011 7:31 66.4	15/11/2011 14:31 66.9	21/11/2011 9:31 68.8	25/11/2011 16:31 68.1
29/10/2011 18:01 64.8	4/11/2011 13:01 66.3	10/11/2011 8:01 69.8	15/11/2011 15:01 67.5	21/11/2011 10:01 70.3	25/11/2011 17:01 67.9
29/10/2011 18:31 65.0	4/11/2011 13:31 68.8	10/11/2011 8:31 71.7	15/11/2011 15:31 66.2	21/11/2011 10:31 69.4	25/11/2011 17:31 66.4
31/10/2011 7:01 64.8	4/11/2011 14:01 68.7	10/11/2011 9:01 68.4	15/11/2011 16:01 68.9	21/11/2011 11:01 70.3	25/11/2011 18:01 65.5
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31/10/2011 8:01 66.0	4/11/2011 15:01 67.9	10/11/2011 10:01 54.5	15/11/2011 17:01 70.0	21/11/2011 12:01 65.3	26/11/2011 7:01 64.6
31/10/2011 8:31 67.8	4/11/2011 15:31 68.1	10/11/2011 10:31 69.7	15/11/2011 17:31 67.3	21/11/2011 12:31 65.5	26/11/2011 7:31 65.8
31/10/2011 9:01 68.3	4/11/2011 16:01 66.3	10/11/2011 11:01 69.4	15/11/2011 18:01 64.5	21/11/2011 13:01 69.7	26/11/2011 8:01 68.0
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31/10/2011 10:01 70.2	4/11/2011 17:01 67.4	10/11/2011 12:01 65.9	16/11/2011 7:01 65.7	21/11/2011 14:01 70.8	26/11/2011 9:01 68.4
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31/10/2011 12:01 65.4	5/11/2011 7:01 64.5	10/11/2011 14:01 72.5	16/11/2011 9:01 67.0	21/11/2011 16:01 68.3	26/11/2011 11:01 64.7
31/10/2011 12:31 65.5	5/11/2011 7:31 65.8	10/11/2011 14:31 67.8	16/11/2011 9:31 68.7	21/11/2011 16:31 68.9	26/11/2011 11:31 64.5
31/10/2011 13:01 69.6	5/11/2011 8:01 67.6	10/11/2011 15:01 69.0	16/11/2011 10:01 69.0	21/11/2011 17:01 68.2	26/11/2011 12:01 64.0
31/10/2011 13:31 69.2	5/11/2011 8:31 67.4	10/11/2011 15:31 69.9	16/11/2011 10:31 70.2	21/11/2011 17:31 66.9	26/11/2011 12:31 63.9
31/10/2011 14:01 69.2	5/11/2011 9:01 68.1	10/11/2011 16:01 68.9	16/11/2011 11:01 69.1	21/11/2011 18:01 65.4	26/11/2011 13:01 64.6
31/10/2011 14:31 70.7	5/11/2011 9:31 71.0	10/11/2011 16:31 69.1	16/11/2011 11:31 68.9	21/11/2011 18:31 64.7	26/11/2011 13:31 64.9
31/10/2011 15:01 69.0	5/11/2011 10:01 66.6	10/11/2011 17:01 70.8	16/11/2011 12:01 65.2	22/11/2011 7:01 65.8	26/11/2011 14:01 64.8
31/10/2011 15:31 68.5	5/11/2011 10:31 68.5	10/11/2011 17:31 67.2	16/11/2011 12:31 65.7	22/11/2011 7:31 65.9	26/11/2011 14:31 65.0
31/10/2011 16:01 67.9	5/11/2011 11:01 68.3	10/11/2011 18:01 66.0	16/11/2011 13:01 69.7	22/11/2011 8:01 67.9	26/11/2011 15:01 63.7
31/10/2011 16:31 70.8	5/11/2011 11:31 67.6	10/11/2011 18:31 64.0	16/11/2011 13:31 71.2	22/11/2011 8:31 72.2	26/11/2011 15:31 64.2
31/10/2011 17:01 67.8	5/11/2011 12:01 64.5	11/11/2011 7:01 65.5	16/11/2011 14:01 69.4	22/11/2011 9:01 65.7	26/11/2011 16:01 65.0
31/10/2011 17:31 68.5	5/11/2011 12:31 65.5	11/11/2011 7:31 66.7	16/11/2011 14:31 68.1	22/11/2011 9:31 69.0	26/11/2011 16:31 64.9
31/10/2011 18:01 66.1	5/11/2011 13:01 69.3	11/11/2011 8:01 69.6	16/11/2011 15:01 67.6	22/11/2011 10:01 68.7	26/11/2011 17:01 65.2
31/10/2011 18:31 64.2	5/11/2011 13:31 68.0	11/11/2011 8:31 67.6	16/11/2011 15:31 69.1	22/11/2011 10:31 68.6	26/11/2011 17:31 65.2
1/11/2011 7:01 65.4	5/11/2011 14:01 66.7	11/11/2011 9:01 70.2	16/11/2011 16:01 68.3	22/11/2011 11:01 69.3	26/11/2011 18:01 64.8
1/11/2011 7:31 65.9	5/11/2011 14:31 67.4	11/11/2011 9:31 69.7	16/11/2011 16:31 68.2	22/11/2011 11:31 67.9	26/11/2011 18:31 64.0
1/11/2011 8:01 65.7	5/11/2011 15:01 67.9	11/11/2011 10:01 68.4	16/11/2011 17:01 67.6	22/11/2011 12:01 65.9	
1/11/2011 8:31 68.2	5/11/2011 15:31 67.5	11/11/2011 10:31 69.1	16/11/2011 17:31 66.4	22/11/2011 12:31 65.9	<u>Normal Day 19:00-23:00</u>
1/11/2011 9:01 69.5	5/11/2011 16:01 70.0	11/11/2011 11:01 68.2	16/11/2011 18:01 65.8	22/11/2011 13:01 72.8	<u>Sunday &amp; Holiday 07:00-23:00</u>

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

28/10/2011 21:41 64.6	30/10/2011 10:51 65.5	30/10/2011 20:01 63.8	1/11/2011 21:11 64.1	3/11/2011 22:21 64.1	6/11/2011 7:26 63.1
28/10/2011 21:46 64.2	30/10/2011 10:56 66.1	30/10/2011 20:06 64.3	1/11/2011 21:16 63.8	3/11/2011 22:26 64.2	6/11/2011 7:31 63.3
28/10/2011 21:51 64.6	30/10/2011 11:01 65.7	30/10/2011 20:11 64.0	1/11/2011 21:21 64.0	3/11/2011 22:31 63.9	6/11/2011 7:36 66.2
28/10/2011 21:56 64.5	30/10/2011 11:06 64.8	30/10/2011 20:16 63.8	1/11/2011 21:26 64.4	3/11/2011 22:36 65.9	6/11/2011 7:41 63.8
28/10/2011 22:01 64.5	30/10/2011 11:11 65.8	30/10/2011 20:21 63.7	1/11/2011 21:31 63.9	3/11/2011 22:41 64.4	6/11/2011 7:46 64.5
28/10/2011 22:06 64.9	30/10/2011 11:16 66.1	30/10/2011 20:26 63.8	1/11/2011 21:36 64.4	3/11/2011 22:46 64.0	6/11/2011 7:51 64.7
28/10/2011 22:11 65.1	30/10/2011 11:21 64.6	30/10/2011 20:31 63.8	1/11/2011 21:41 63.8	3/11/2011 22:51 64.5	6/11/2011 7:56 63.3
28/10/2011 22:16 64.9	30/10/2011 11:26 65.7	30/10/2011 20:36 63.8	1/11/2011 21:46 63.8	3/11/2011 22:56 63.7	6/11/2011 8:01 63.5
28/10/2011 22:21 64.7	30/10/2011 11:31 64.7	30/10/2011 20:41 63.8	1/11/2011 21:51 63.9	4/11/2011 19:01 63.6	6/11/2011 8:06 68.2
28/10/2011 22:26 64.8	30/10/2011 11:36 64.5	30/10/2011 20:46 63.5	1/11/2011 21:56 64.5	4/11/2011 19:06 63.0	6/11/2011 8:11 63.6
28/10/2011 22:31 64.3	30/10/2011 11:41 64.8	30/10/2011 20:51 63.6	1/11/2011 22:01 64.2	4/11/2011 19:11 62.1	6/11/2011 8:16 64.2
28/10/2011 22:36 64.7	30/10/2011 11:46 64.7	30/10/2011 20:56 63.8	1/11/2011 22:06 64.4	4/11/2011 19:16 62.5	6/11/2011 8:21 63.8
28/10/2011 22:41 64.9	30/10/2011 11:51 64.9	30/10/2011 21:01 63.4	1/11/2011 22:11 64.3	4/11/2011 19:21 62.1	6/11/2011 8:26 64.9
28/10/2011 22:46 64.5	30/10/2011 11:56 66.7	30/10/2011 21:06 63.4	1/11/2011 22:16 64.3	4/11/2011 19:26 62.1	6/11/2011 8:31 65.1
28/10/2011 22:51 64.9	30/10/2011 12:01 64.8	30/10/2011 21:11 63.3	1/11/2011 22:21 63.5	4/11/2011 19:31 62.2	6/11/2011 8:36 65.2
28/10/2011 22:56 65.4	30/10/2011 12:06 65.4	30/10/2011 21:16 64.1	1/11/2011 22:26 64.4	4/11/2011 19:36 63.3	6/11/2011 8:41 64.6
29/10/2011 19:01 65.0	30/10/2011 12:11 65.3	30/10/2011 21:21 63.4	1/11/2011 22:31 64.0	4/11/2011 19:41 63.3	6/11/2011 8:46 65.0
29/10/2011 19:06 65.9	30/10/2011 12:16 64.8	30/10/2011 21:26 63.4	1/11/2011 22:36 63.6	4/11/2011 19:46 63.4	6/11/2011 8:51 64.5
29/10/2011 19:11 65.3	30/10/2011 12:21 64.3	30/10/2011 21:31 63.8	1/11/2011 22:41 63.7	4/11/2011 19:51 64.6	6/11/2011 8:56 64.5
29/10/2011 19:16 65.0	30/10/2011 12:26 64.6	30/10/2011 21:36 63.8	1/11/2011 22:46 63.8	4/11/2011 19:56 65.1	6/11/2011 9:01 64.6
29/10/2011 19:21 64.9	30/10/2011 12:31 64.5	30/10/2011 21:41 63.6	1/11/2011 22:51 63.6	4/11/2011 20:01 64.8	6/11/2011 9:06 64.4
29/10/2011 19:26 64.8	30/10/2011 12:36 65.3	30/10/2011 21:46 63.9	1/11/2011 22:56 63.1	4/11/2011 20:06 64.6	6/11/2011 9:11 65.0
29/10/2011 19:31 64.6	30/10/2011 12:41 64.8	30/10/2011 21:51 63.7	2/11/2011 19:01 65.4	4/11/2011 20:11 65.0	6/11/2011 9:16 64.7
29/10/2011 19:36 65.4	30/10/2011 12:46 64.7	30/10/2011 21:56 63.8	2/11/2011 19:06 64.0	4/11/2011 20:16 65.5	6/11/2011 9:21 65.5
29/10/2011 19:41 64.7	30/10/2011 12:51 64.1	30/10/2011 22:01 63.9	2/11/2011 19:11 64.8	4/11/2011 20:21 65.5	6/11/2011 9:26 65.1
29/10/2011 19:46 65.0	30/10/2011 12:56 63.7	30/10/2011 22:06 63.5	2/11/2011 19:16 65.7	4/11/2011 20:26 64.8	6/11/2011 9:31 65.2
29/10/2011 19:51 65.3	30/10/2011 13:01 63.5	30/10/2011 22:11 63.5	2/11/2011 19:21 65.6	4/11/2011 20:31 65.2	6/11/2011 9:36 64.8
29/10/2011 19:56 64.6	30/10/2011 13:06 63.8	30/10/2011 22:16 63.7	2/11/2011 19:26 65.4	4/11/2011 20:36 64.6	6/11/2011 9:41 64.4
29/10/2011 20:01 64.9	30/10/2011 13:11 63.6	30/10/2011 22:21 63.8	2/11/2011 19:31 65.3	4/11/2011 20:41 65.0	6/11/2011 9:46 65.0
29/10/2011 20:06 66.5	30/10/2011 13:16 64.7	30/10/2011 22:26 63.5	2/11/2011 19:36 66.5	4/11/2011 20:46 64.3	6/11/2011 9:51 64.6
29/10/2011 20:11 65.3	30/10/2011 13:21 63.0	30/10/2011 22:31 63.5	2/11/2011 19:41 65.0	4/11/2011 20:51 64.9	6/11/2011 9:56 64.8
29/10/2011 20:16 65.3	30/10/2011 13:26 64.0	30/10/2011 22:36 63.3	2/11/2011 19:46 64.9	4/11/2011 20:56 64.0	6/11/2011 10:01 65.5
29/10/2011 20:21 64.9	30/10/2011 13:31 63.3	30/10/2011 22:41 63.7	2/11/2011 19:51 65.2	4/11/2011 21:01 64.6	6/11/2011 10:06 65.6
29/10/2011 20:26 64.4	30/10/2011 13:36 63.6	30/10/2011 22:46 63.5	2/11/2011 19:56 65.0	4/11/2011 21:06 64.8	6/11/2011 10:11 65.2
29/10/2011 20:31 64.7	30/10/2011 13:41 64.0	30/10/2011 22:51 63.0	2/11/2011 20:01 65.2	4/11/2011 21:11 64.1	6/11/2011 10:16 65.4
29/10/2011 20:36 64.4	30/10/2011 13:46 64.6	30/10/2011 22:56 63.6	2/11/2011 20:06 64.9	4/11/2011 21:16 64.7	6/11/2011 10:21 65.7
29/10/2011 20:41 64.4	30/10/2011 13:51 64.7	31/10/2011 19:01 64.1	2/11/2011 20:11 64.9	4/11/2011 21:21 64.2	6/11/2011 10:26 64.9
29/10/2011 20:46 64.2	30/10/2011 13:56 64.1	31/10/2011 19:06 63.7	2/11/2011 20:16 64.8	4/11/2011 21:26 64.8	6/11/2011 10:31 64.9
29/10/2011 20:51 64.4	30/10/2011 14:01 65.0	31/10/2011 19:11 63.6	2/11/2011 20:21 65.7	4/11/2011 21:31 64.1	6/11/2011 10:36 64.5
29/10/2011 20:56 64.7	30/10/2011 14:06 65.7	31/10/2011 19:16 63.6	2/11/2011 20:26 64.7	4/11/2011 21:36 64.1	6/11/2011 10:41 64.0
29/10/2011 21:01 64.9	30/10/2011 14:11 64.5	31/10/2011 19:21 63.6	2/11/2011 20:31 65.2	4/11/2011 21:41 64.1	6/11/2011 10:46 64.1
29/10/2011 21:06 65.3	30/10/2011 14:16 64.6	31/10/2011 19:26 64.5	2/11/2011 20:36 65.7	4/11/2011 21:46 64.2	6/11/2011 10:51 63.9
29/10/2011 21:11 64.5	30/10/2011 14:21 65.0	31/10/2011 19:31 63.5	2/11/2011 20:41 62.1	4/11/2011 21:51 64.7	6/11/2011 10:56 63.9
29/10/2011 21:16 64.2	30/10/2011 14:26 65.1	31/10/2011 19:36 64.1	2/11/2011 20:46 68.0	4/11/2011 21:56 64.2	6/11/2011 11:01 64.1
29/10/2011 21:21 63.6	30/10/2011 14:31 64.8	31/10/2011 19:41 64.5	2/11/2011 20:51 64.5	4/11/2011 22:01 64.4	6/11/2011 11:06 64.8
29/10/2011 21:26 64.6	30/10/2011 14:36 64.5	31/10/2011 19:46 64.2	2/11/2011 20:56 64.5	4/11/2011 22:06 64.3	6/11/2011 11:11 64.3
29/10/2011 21:31 64.0	30/10/2011 14:41 65.1	31/10/2011 19:51 64.6	2/11/2011 21:01 64.0	4/11/2011 22:11 64.9	6/11/2011 11:16 65.0
29/10/2011 21:36 64.2	30/10/2011 14:46 64.7	31/10/2011 19:56 66.2	2/11/2011 21:06 63.9	4/11/2011 22:16 64.1	6/11/2011 11:21 64.3
29/10/2011 21:41 64.0	30/10/2011 14:51 64.6	31/10/2011 20:01 65.0	2/11/2011 21:11 65.4	4/11/2011 22:21 64.0	6/11/2011 11:26 64.9
29/10/2011 21:46 63.5	30/10/2011 14:56 64.7	31/10/2011 20:06 65.2	2/11/2011 21:16 64.2	4/11/2011 22:26 64.0	6/11/2011 11:31 65.9
29/10/2011 21:51 64.9	30/10/2011 15:01 64.6	31/10/2011 20:11 65.0	2/11/2011 21:21 63.9	4/11/2011 22:31 63.9	6/11/2011 11:36 64.9
29/10/2011 21:56 64.1	30/10/2011 15:06 64.7	31/10/2011 20:16 65.8	2/11/2011 21:26 64.8	4/11/2011 22:36 64.3	6/11/2011 11:41 65.1
29/10/2011 22:01 65.0	30/10/2011 15:11 64.3	31/10/2011 20:21 64.8	2/11/2011 21:31 64.7	4/11/2011 22:41 63.7	6/11/2011 11:46 65.0
29/10/2011 22:06 64.7	30/10/2011 15:16 64.9	31/10/2011 20:26 64.8	2/11/2011 21:36 64.8	4/11/2011 22:46 63.9	6/11/2011 11:51 65.0
29/10/2011 22:11 64.7	30/10/2011 15:21 65.0	31/10/2011 20:31 64.9	2/11/2011 21:41 64.3	4/11/2011 22:51 64.1	6/11/2011 11:56 64.9
29/10/2011 22:16 64.4	30/10/2011 15:26 65.4	31/10/2011 20:36 64.9	2/11/2011 21:46 64.5	4/11/2011 22:56 63.7	6/11/2011 12:01 63.5
29/10/2011 22:21 63.8	30/10/2011 15:31 64.5	31/10/2011 20:41 64.9	2/11/2011 21:51 64.1	4/11/2011 23:01 63.7	6/11/2011 12:06 64.0
29/10/2011 22:26 63.7	30/10/2011 15:36 64.6	31/10/2011 20:46 65.0	2/11/2011 21:56 64.2	5/11/2011 19:01 64.2	6/11/2011 12:11 63.7
29/10/2011 22:31 64.7	30/10/2011 15:41 65.5	31/10/2011 20:51 64.3	2/11/2011 22:01 63.9	5/11/2011 19:06 63.0	6/11/2011 12:16 65.0
29/10/2011 22:36 63.7	30/10/2011 15:46 64.6	31/10/2011 20:56 64.4	2/11/2011 22:06 64.2	5/11/2011 19:11 62.9	6/11/2011 12:21 63.9
29/10/2011 22:41 63.1	30/10/2011 15:51 66.2	31/10/2011 21:01 65.7	2/11/2011 22:11 63.8	5/11/2011 19:16 63.5	6/11/2011 12:26 63.7
29/10/2011 22:46 63.0	30/10/2011 15:56 65.0	31/10/2011 21:06 64.9	2/11/2011 22:16 64.5	5/11/2011 19:21 64.6	6/11/2011 12:31 65.3
29/10/2011 22:51 63.8	30/10/2011 16:01 65.1	31/10/2011 21:11 64.4	2/11/2011 22:21 63.5	5/11/2011 19:26 65.4	6/11/2011 12:36 64.8
29/10/2011 22:56 64.2	30/10/2011 16:06 65.0	31/10/2011 21:16 64.3	2/11/2011 22:26 63.8	5/11/2011 19:31 64.1	6/11/2011 12:41 64.4
30/10/2011 7:01 63.0	30/10/2011 16:11 65.4	31/10/2011 21:21 64.6	2/11/2011 22:31 63.9	5/11/2011 19:36 63.4	6/11/2011 12:46 64.3
30/10/2011 7:06 63.9	30/10/2011 16:16 65.2	31/10/2011 21:26 64.5	2/11/2011 22:36 64.1	5/11/2011 19:41 64.8	6/11/2011 12:51 64.6
30/10/2011 7:11 65.9	30/10/2011 16:21 65.2	31/10/2011 21:31 64.5	2/11/2011 22:41 63.3	5/11/2011 19:46 64.4	6/11/2011 12:56 64.5
30/10/2011 7:16 63.0	30/10/2011 16:26 65.0	31/10/2011 21:36 64.5	2/11/2011 22:46 63.9	5/11/2011 19:51 64.2	6/11/2011 13:01 64.7
30/10/2011 7:21 63.2	30/10/2011 16:31 65.0	31/10/2011 21:41 64.0	2/11/2011 22:51 63.6	5/11/2011 19:56 64.3	6/11/2011 13:06 65.1
30/10/2011 7:26 63.9	30/10/2011 16:36 65.7	31/10/2011 21:46 64.1	2/11/2011 22:56 63.6	5/11/2011 20:01 64.1	6/11/2011 13:11 63.8
30/10/2011 7:31 63.0	30/10/2011 16:41 65.5	31/10/2011 21:51 64.3	3/11/2011 19:01 62.7	5/11/2011 20:06 64.2	6/11/2011 13:16 65.4
30/10/2011 7:36 64.7	30/10/2011 16:46 65.1	31/10/2011 21:56 64.3	3/11/2011 19:06 61.8	5/11/2011 20:11 64.6	6/11/2011 13:21 65.4
30/10/2011 7:41 64.5	30/10/2011 16:51 67.8	31/10/2011 22:01 65.1	3/11/2011 19:11 61.6	5/11/2011 20:16 63.7	6/11/2011 13:26 64.8
30/10/2011 7:46 64.2	30/10/2011 16:56 64.7	31/10/2011 22:06 65.1	3/11/2011 19:16 61.3	5/11/2011 20:21 64.1	6/11/2011 13:31 64.1
30/10/2011 7:51 64.9	30/10/2011 17:01 66.0	31/10/2011 22:11 63.7	3/11/2011 19:21 62.0	5/11/2011 20:26 64.3	6/11/2011 13:36 64.6
30/10/2011 7:56 64.3	30/10/2011 17:06 65.8	31/10/2011 22:16 64.0	3/11/2011 19:26 61.8	5/11/2011 20:31 64.7	6/11/2011 13:41 63.8
30/10/2011 8:01 63.9	30/10/2011 17:11 65.1	31/10/2011 22:21 64.4	3/11/2011 19:31 62.6	5/11/2011 20:36 64.3	6/11/2011 13:46 63.7
30/10/2011 8:06 64.1	30/10/2011 17:16 65.4	31/10/2011 22:26 64.1	3/11/2011 19:36 62.8	5/11/2011 20:41 64.1	6/11/2011 13:51 64.0
30/10/2011					

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

6/11/2011 16:36	64.7	7/11/2011 21:46	64.4	9/11/2011 22:56	64.2	12/11/2011 20:06	64.6	13/11/2011 13:16	64.4	13/11/2011 22:26	63.8
6/11/2011 16:41	64.7	7/11/2011 21:51	64.5	10/11/2011 19:01	62.8	12/11/2011 20:11	65.3	13/11/2011 13:21	64.0	13/11/2011 22:31	63.6
6/11/2011 16:46	64.6	7/11/2011 21:56	64.2	10/11/2011 19:06	63.4	12/11/2011 20:16	64.2	13/11/2011 13:26	64.5	13/11/2011 22:36	63.3
6/11/2011 16:51	65.1	7/11/2011 22:01	64.6	10/11/2011 19:11	64.1	12/11/2011 20:21	64.4	13/11/2011 13:31	64.3	13/11/2011 22:41	63.6
6/11/2011 16:56	64.8	7/11/2011 22:06	64.2	10/11/2011 19:16	65.0	12/11/2011 20:26	64.5	13/11/2011 13:36	63.6	13/11/2011 22:46	63.6
6/11/2011 17:01	64.8	7/11/2011 22:11	64.2	10/11/2011 19:21	65.0	12/11/2011 20:31	64.1	13/11/2011 13:41	63.6	13/11/2011 22:51	63.5
6/11/2011 17:06	64.8	7/11/2011 22:16	63.9	10/11/2011 19:26	64.3	12/11/2011 20:36	64.4	13/11/2011 13:46	63.5	13/11/2011 22:56	63.2
6/11/2011 17:11	64.8	7/11/2011 22:21	63.8	10/11/2011 19:31	63.8	12/11/2011 20:41	65.4	13/11/2011 13:51	63.8	14/11/2011 19:01	65.3
6/11/2011 17:16	64.6	7/11/2011 22:26	64.0	10/11/2011 19:36	63.9	12/11/2011 20:46	64.2	13/11/2011 13:56	63.6	14/11/2011 19:06	65.4
6/11/2011 17:21	65.1	7/11/2011 22:31	63.5	10/11/2011 19:41	64.7	12/11/2011 20:51	64.3	13/11/2011 14:01	62.9	14/11/2011 19:11	65.1
6/11/2011 17:26	64.3	7/11/2011 22:36	63.9	10/11/2011 19:46	64.1	12/11/2011 20:56	63.8	13/11/2011 14:06	63.6	14/11/2011 19:16	65.3
6/11/2011 17:31	65.3	7/11/2011 22:41	63.9	10/11/2011 19:51	65.6	12/11/2011 21:01	63.4	13/11/2011 14:11	63.0	14/11/2011 19:21	65.3
6/11/2011 17:36	64.3	7/11/2011 22:46	63.1	10/11/2011 19:56	65.8	12/11/2011 21:06	64.1	13/11/2011 14:16	68.3	14/11/2011 19:26	65.1
6/11/2011 17:41	63.9	7/11/2011 22:51	63.1	10/11/2011 20:01	65.4	12/11/2011 21:11	64.0	13/11/2011 14:21	63.5	14/11/2011 19:31	65.1
6/11/2011 17:46	64.2	7/11/2011 22:56	63.5	10/11/2011 20:06	65.8	12/11/2011 21:16	63.5	13/11/2011 14:26	63.1	14/11/2011 19:36	64.9
6/11/2011 17:51	64.7	8/11/2011 19:01	64.2	10/11/2011 20:11	65.8	12/11/2011 21:21	63.8	13/11/2011 14:31	63.4	14/11/2011 19:41	65.3
6/11/2011 17:56	64.3	8/11/2011 19:06	64.2	10/11/2011 20:16	65.7	12/11/2011 21:26	64.2	13/11/2011 14:36	65.2	14/11/2011 19:46	64.5
6/11/2011 18:01	64.7	8/11/2011 19:11	63.8	10/11/2011 20:21	66.3	12/11/2011 21:31	64.0	13/11/2011 14:41	63.9	14/11/2011 19:51	64.6
6/11/2011 18:06	65.2	8/11/2011 19:16	64.2	10/11/2011 20:26	65.7	12/11/2011 21:36	64.3	13/11/2011 14:46	63.9	14/11/2011 19:56	63.6
6/11/2011 18:11	65.1	8/11/2011 19:21	64.6	10/11/2011 20:31	66.6	12/11/2011 21:41	63.8	13/11/2011 14:51	63.4	14/11/2011 20:01	64.6
6/11/2011 18:16	65.1	8/11/2011 19:26	64.6	10/11/2011 20:36	65.9	12/11/2011 21:46	63.7	13/11/2011 14:56	62.9	14/11/2011 20:06	64.6
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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17/11/2011 20:31 65.1	19/11/2011 21:41 64.8	20/11/2011 14:51 63.9	21/11/2011 20:01 65.1	23/11/2011 21:11 64.6	25/11/2011 22:21 64.3
17/11/2011 20:36 64.9	19/11/2011 21:46 64.6	20/11/2011 14:56 64.3	21/11/2011 20:06 64.8	23/11/2011 21:16 64.4	25/11/2011 22:26 64.2
17/11/2011 20:41 64.9	19/11/2011 21:51 65.0	20/11/2011 15:01 64.1	21/11/2011 20:11 65.3	23/11/2011 21:21 65.1	25/11/2011 22:31 63.9
17/11/2011 20:46 64.5	19/11/2011 21:56 64.6	20/11/2011 15:06 65.3	21/11/2011 20:16 65.2	23/11/2011 21:26 64.4	25/11/2011 22:36 64.2
17/11/2011 20:51 64.5	19/11/2011 22:01 64.3	20/11/2011 15:11 63.6	21/11/2011 20:21 65.0	23/11/2011 21:31 64.5	25/11/2011 22:41 64.1
17/11/2011 20:56 64.7	19/11/2011 22:06 64.7	20/11/2011 15:16 63.5	21/11/2011 20:26 64.8	23/11/2011 21:36 64.0	25/11/2011 22:46 63.9
17/11/2011 21:01 64.7	19/11/2011 22:11 64.9	20/11/2011 15:21 64.2	21/11/2011 20:31 64.8	23/11/2011 21:41 64.4	25/11/2011 22:51 64.2
17/11/2011 21:06 64.8	19/11/2011 22:16 65.3	20/11/2011 15:26 63.7	21/11/2011 20:36 64.8	23/11/2011 21:46 63.9	25/11/2011 22:56 64.2
17/11/2011 21:11 63.9	19/11/2011 22:21 64.9	20/11/2011 15:31 65.0	21/11/2011 20:41 65.2	23/11/2011 21:51 64.0	26/11/2011 19:01 63.7
17/11/2011 21:16 64.1	19/11/2011 22:26 64.4	20/11/2011 15:36 64.0	21/11/2011 20:46 64.5	23/11/2011 21:56 64.2	26/11/2011 19:06 63.7
17/11/2011 21:21 64.7	19/11/2011 22:31 64.8	20/11/2011 15:41 64.8	21/11/2011 20:51 65.1	23/11/2011 22:01 63.8	26/11/2011 19:11 64.0
17/11/2011 21:26 64.3	19/11/2011 22:36 64.7	20/11/2011 15:46 65.3	21/11/2011 20:56 63.7	23/11/2011 22:06 64.1	26/11/2011 19:16 64.0
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

26/11/2011 22:36 64.1	27/11/2011 15:46 66.5	28/10/2011 1:46 61.0	29/10/2011 2:56 61.9	30/10/2011 4:06 61.4	31/10/2011 5:16 59.6
26/11/2011 22:41 63.9	27/11/2011 15:51 66.3	28/10/2011 1:51 60.8	29/10/2011 3:01 61.3	30/10/2011 4:11 61.6	31/10/2011 5:21 59.4
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27/11/2011 9:16 66.7	27/11/2011 18:26 65.7	28/10/2011 4:26 59.6	29/10/2011 5:36 60.7	30/10/2011 6:46 63.1	31/10/2011 23:56 62.3
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27/11/2011 9:26 66.8	27/11/2011 18:36 65.5	28/10/2011 4:36 57.9	29/10/2011 5:46 61.2	30/10/2011 6:56 63.1	1/11/2011 0:06 63.3
27/11/2011 9:31 67.0	27/11/2011 18:41 65.4	28/10/2011 4:41 59.1	29/10/2011 5:51 61.2	30/10/2011 23:01 62.9	1/11/2011 0:11 62.4
27/11/2011 9:36 69.3	27/11/2011 18:46 65.1	28/10/2011 4:46 58.3	29/10/2011 5:56 61.1	30/10/2011 23:06 65.1	1/11/2011 0:16 62.9
27/11/2011 9:41 68.8	27/11/2011 18:51 64.8	28/10/2011 4:51 59.3	29/10/2011 6:01 61.9	30/10/2011 23:11 64.5	1/11/2011 0:21 62.2
27/11/2011 9:46 68.3	27/11/2011 18:56 65.3	28/10/2011 4:56 58.2	29/10/2011 6:06 62.4	30/10/2011 23:16 63.0	1/11/2011 0:26 63.4
27/11/2011 9:51 69.0	27/11/2011 19:01 66.0	28/10/2011 5:01 59.2	29/10/2011 6:11 62.4	30/10/2011 23:21 63.7	1/11/2011 0:31 62.4
27/11/2011 9:56 54.8	27/11/2011 19:06 65.3	28/10/2011 5:06 59.6	29/10/2011 6:16 62.4	30/10/2011 23:26 63.1	1/11/2011 0:36 62.4
27/11/2011 10:01 59.1	27/11/2011 19:11 65.1	28/10/2011 5:11 58.5	29/10/2011 6:21 62.6	30/10/2011 23:31 62.6	1/11/2011 0:41 62.7
27/11/2011 10:06 62.9	27/11/2011 19:16 64.9	28/10/2011 5:16 59.9	29/10/2011 6:26 63.1	30/10/2011 23:36 62.5	1/11/2011 0:46 62.4
27/11/2011 10:11 52.9	27/11/2011 19:21 65.0	28/10/2011 5:21 58.8	29/10/2011 6:31 62.8	30/10/2011 23:41 62.6	1/11/2011 0:51 61.6
27/11/2011 10:16 66.2	27/11/2011 19:26 65.6	28/10/2011 5:26 60.6	29/10/2011 6:36 64.2	30/10/2011 23:46 62.9	1/11/2011 0:56 61.1
27/11/2011 10:21 62.2	27/11/2011 19:31 65.2	28/10/2011 5:31 59.2	29/10/2011 6:41 63.5	30/10/2011 23:51 62.5	1/11/2011 1:01 61.3
27/11/2011 10:26 61.1	27/11/2011 19:36 64.7	28/10/2011 5:36 59.9	29/10/2011 6:46 63.2	30/10/2011 23:56 62.7	1/11/2011 1:06 61.6
27/11/2011 10:31 69.2	27/11/2011 19:41 64.9	28/10/2011 5:41 60.5	29/10/2011 6:51 63.7	31/10/2011 0:01 63.0	1/11/2011 1:11 60.8
27/11/2011 10:36 69.3	27/11/2011 19:46 64.7	28/10/2011 5:46 60.9	29/10/2011 6:56 64.7	31/10/2011 0:06 62.6	1/11/2011 1:16 61.3
27/11/2011 10:41 69.0	27/11/2011 19:51 65.1	28/10/2011 5:51 61.4	29/10/2011 23:01 64.6	31/10/2011 0:11 62.8	1/11/2011 1:21 60.4
27/11/2011 10:46 67.9	27/11/2011 19:56 65.4	28/10/2011 5:56 60.9	29/10/2011 23:06 64.7	31/10/2011 0:16 62.8	1/11/2011 1:26 61.3
27/11/2011 10:51 67.1	27/11/2011 20:01 64.9	28/10/2011 6:01 61.3	29/10/2011 23:11 64.0	31/10/2011 0:21 62.5	1/11/2011 1:31 60.8
27/11/2011 10:56 69.2	27/11/2011 20:06 64.8	28/10/2011 6:06 60.9	29/10/2011 23:16 64.2	31/10/2011 0:26 62.5	1/11/2011 1:36 60.9
27/11/2011 11:01 65.3	27/11/2011 20:11 64.2	28/10/2011 6:11 62.6	29/10/2011 23:21 64.4	31/10/2011 0:31 62.2	1/11/2011 1:41 61.1
27/11/2011 11:06 64.7	27/11/2011 20:16 64.5	28/10/2011 6:16 61.9	29/10/2011 23:26 63.2	31/10/2011 0:36 61.9	1/11/2011 1:46 60.1
27/11/2011 11:11 63.4	27/11/2011 20:21 64.7	28/10/2011 6:21 62.8	29/10/2011 23:31 64.2	31/10/2011 0:41 61.2	1/11/2011 1:51 61.3
27/11/2011 11:16 68.6	27/11/2011 20:26 64.4	28/10/2011 6:26 63.7	29/10/2011 23:36 63.8	31/10/2011 0:46 61.9	1/11/2011 1:56 60.0
27/11/2011 11:21 67.6	27/11/2011 20:31 64.2	28/10/2011 6:31 63.9	29/10/2011 23:41 63.9	31/10/2011 0:51 61.2	1/11/2011 2:01 60.4
27/11/2011 11:26 67.7	27/11/2011 20:36 64.5	28/10/2011 6:36 64.1	29/10/2011 23:46 64.1	31/10/2011 0:56 61.7	1/11/2011 2:06 60.4
27/11/2011 11:31 65.6	27/11/2011 20:41 64.4	28/10/2011 6:41 64.2	29/10/2011 23:51 63.3	31/10/2011 1:01 60.6	1/11/2011 2:11 60.2
27/11/2011 11:36 65.8	27/11/2011 20:46 65.3	28/10/2011 6:46 63.6	29/10/2011 23:56 63.5	31/10/2011 1:06 60.9	1/11/2011 2:16 60.2
27/11/2011 11:41 65.7	27/11/2011 20:51 64.8	28/10/2011 6:51 64.5	30/10/2011 0:01 63.6	31/10/2011 1:11 60.9	1/11/2011 2:21 59.7
27/11/2011 11:46 64.6	27/11/2011 20:56 64.4	28/10/2011 6:56 65.0	30/10/2011 0:06 63.8	31/10/2011 1:16 60.7	1/11/2011 2:26 59.8
27/11/2011 11:51 65.3	27/11/2011 21:01 64.1	28/10/2011 7:01 65.1	30/10/2011 0:11 64.1	31/10/2011 1:21 60.6	1/11/2011 2:31 59.7
27/11/2011 11:56 65.4	27/11/2011 21:06 64.2	28/10/2011 23:06 64.7	30/10/2011 0:16 63.4	31/10/2011 1:26 60.2	1/11/2011 2:36 59.8
27/11/2011 12:01 64.9	27/11/2011 21:11 63.9	28/10/2011 23:11 64.0	30/10/2011 0:21 64.2	31/10/2011 1:31 60.3	1/11/2011 2:41 59.7
27/11/2011 12:06 65.7	27/11/2011 21:16 64.5	28/10/2011 23:16 64.6	30/10/2011 0:26 64.2	31/10/2011 1:36 60.4	1/11/2011 2:46 60.1
27/11/2011 12:11 64.7	27/11/2011 21:21 64.6	28/10/2011 23:21 64.6	30/10/2011 0:31 63.7	31/10/2011 1:41 60.6	1/11/2011 2:51 59.5
27/11/2011 12:16 64.8	27/11/2011 21:26 64.2	28/10/2011 23:26 64.1	30/10/2011 0:36 63.2	31/10/2011 1:46 60.2	1/11/2011 2:56 59.0
27/11/2011 12:21 64.6	27/11/2011 21:31 64.3	28/10/2011 23:31 64.9	30/10/2011 0:41 62.8	31/10/2011 1:51 60.0	1/11/2011 3:01 60.2
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27/11/2011 12:51 65.1	27/11/2011 22:01 63.6	29/10/2011 0:01 63.8	30/10/2011 1:11 62.4	31/10/2011 2:21 60.3	1/11/2011 3:31 59.6
27/11/2011 12:56 68.3	27/11/2011 22:06 63.8	29/10/2011 0:06 64.0	30/10/2011 1:16 61.9	31/10/2011 2:26 60.2	1/11/2011 3:36 58.9
27/11/2011 13:01 68.5	27/11/2011 22:11 63.3	29/10/2011 0:11 63.8	30/10/2011 1:21 61.9	31/10/2011 2:31 59.6	1/11/2011 3:41 58.9
27/11/2011 13:06 67.7	27/11/2011 22:16 63.5	29/10/2011 0:16 64.2			

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

1/11/2011 6:26	63.4	2/11/2011 23:36	63.7	4/11/2011 0:46	62.1	5/11/2011 1:56	61.4	6/11/2011 3:06	59.4	7/11/2011 4:16	57.7
1/11/2011 6:31	64.1	2/11/2011 23:41	63.8	4/11/2011 0:51	61.8	5/11/2011 2:01	61.2	6/11/2011 3:11	60.2	7/11/2011 4:21	58.6
1/11/2011 6:36	63.8	2/11/2011 23:46	63.5	4/11/2011 0:56	61.5	5/11/2011 2:06	60.9	6/11/2011 3:16	59.9	7/11/2011 4:26	59.0
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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9/11/2011 0:56	61.8	10/11/2011 2:06	60.8	11/11/2011 3:16	59.9	12/11/2011 4:26	59.7	13/11/2011 5:36	59.5	14/11/2011 6:46	63.8
9/11/2011 1:01	61.5	10/11/2011 2:11	60.4	11/11/2011 3:21	60.4	12/11/2011 4:31	59.7	13/11/2011 5:41	60.3	14/11/2011 6:51	64.4
9/11/2011 1:06	61.6	10/11/2011 2:16	60.9	11/11/2011 3:26	60.8	12/11/2011 4:36	60.1	13/11/2011 5:46	60.7	14/11/2011 6:56	65.1
9/11/2011 1:11	61.1	10/11/2011 2:21	59.8	11/11/2011 3:31	59.4	12/11/2011 4:41	60.5	13/11/2011 5:51	60.9	14/11/2011 23:01	63.4
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9/11/2011 1:21	61.5	10/11/2011 2:31	60.5	11/11/2011 3:41	60.3	12/11/2011 4:51	60.0	13/11/2011 6:01	61.0	14/11/2011 23:11	64.2
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9/11/2011 1:56	60.9	10/11/2011 3:06	58.4	11/11/2011 4:16	58.6	12/11/2011 5:26	60.5	13/11/2011 6:36	62.4	14/11/2011 23:46	62.6
9/11/2011 2:01	60.6	10/11/2011 3:11	59.5	11/11/2011 4:21	59.7	12/11/2011 5:31	60.7	13/11/2011 6:41	62.7	14/11/2011 23:51	62.7
9/11/2011 2:06	60.4	10/11/2011 3:16	60.0	11/11/2011 4:26	58.8	12/11/2011 5:36	59.8	13/11/2011 6:46	62.6	14/11/2011 23:56	62.7
9/11/2011 2:11	61.1	10/11/2011 3:21	59.9	11/11/2011 4:31	58.5	12/11/2011 5:41	61.1	13/11/2011 6:51	64.4	15/11/2011 0:01	62.7
9/11/2011 2:16	60.4	10/11/2011 3:26	60.4	11/11/2011 4:36	59.9	12/11/2011 5:46	61.2	13/11/2011 6:56	62.9	15/11/2011 0:06	62.7
9/11/2011 2:21	60.2	10/11/2011 3:31	59.8	11/11/2011 4:41	59.6	12/11/2011 5:51	61.7	13/11/2011 23:01	62.8	15/11/2011 0:11	62.4
9/11/2011 2:26	60.1	10/11/2011 3:36	59.4	11/11/2011 4:46	59.5	12/11/2011 5:56	61.0	13/11/2011 23:06	63.2	15/11/2011 0:16	62.5
9/11/2011 2:31	60.2	10/11/2011 3:41	60.7	11/11/2011 4:51	59.3	12/11/2011 6:01	60.9	13/11/2011 23:11	62.8	15/11/2011 0:21	62.7
9/11/2011 2:36	60.0	10/11/2011 3:46	59.4	11/11/2011 4:56	60.5	12/11/2011 6:06	60.9	13/11/2011 23:16	63.4	15/11/2011 0:26	62.7
9/11/2011 2:41	60.0	10/11/2011 3:51	59.6	11/11/2011 5:01	59.5	12/11/2011 6:11	62.8	13/11/2011 23:21	62.9	15/11/2011 0:31	61.2
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9/11/2011 2:51	60.0	10/11/2011 4:01	59.2	11/11/2011 5:11	58.7	12/11/2011 6:21	62.8	13/11/2011 23:31	62.6	15/11/2011 0:41	60.9
9/11/2011 2:56	60.3	10/11/2011 4:06	59.2	11/11/2011 5:16	60.8	12/11/2011 6:26	62.1	13/11/2011 23:36	63.6	15/11/2011 0:46	61.4
9/11/2011 3:01	60.7	10/11/2011 4:11	59.9	11/11/2011 5:21	61.2	12/11/2011 6:31	63.1	13/11/2011 23:41	62.9	15/11/2011 0:51	60.9
9/11/2011 3:06	59.4	10/11/2011 4:16	59.2	11/11/2011 5:26	59.7	12/11/2011 6:36	62.7	13/11/2011 23:46	62.7	15/11/201	

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

15/11/2011 4:26	58.2	16/11/2011 5:36	58.8	17/11/2011 6:46	64.7	18/11/2011 23:56	63.4	20/11/2011 1:06	62.8	21/11/2011 2:16	58.7
15/11/2011 4:31	58.6	16/11/2011 5:41	61.0	17/11/2011 6:51	64.3	19/11/2011 0:01	63.9	20/11/2011 1:11	63.3	21/11/2011 2:21	59.7
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15/11/2011 4:41	59.3	16/11/2011 5:51	61.1	17/11/2011 23:01	62.4	19/11/2011 0:11	63.6	20/11/2011 1:21	62.5	21/11/2011 2:31	58.7
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15/11/2011 5:06	59.3	16/11/2011 6:16	62.9	17/11/2011 23:26	62.0	19/11/2011 0:36	62.8	20/11/2011 1:46	62.2	21/11/2011 2:56	58.6
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15/11/2011 6:01	60.8	16/11/2011 23:11	63.9	18/11/2011 0:21	62.1	19/11/2011 1:31	62.1	20/11/2011 2:41	61.0	21/11/2011 3:51	58.3
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15/11/2011 6:16	62.5	16/11/2011 23:26	63.6	18/11/2011 0:36	62.1	19/11/2011 1:46	62.1	20/11/2011 2:56	61.4	21/11/2011 4:06	57.7
15/11/2011 6:21	61.8	16/11/2011 23:31	63.4	18/11/2011 0:41	61.7	19/11/2011 1:51	61.3	20/11/2011 3:01	60.4	21/11/2011 4:11	57.2
15/11/2011 6:26	63.4	16/11/2011 23:36	63.6	18/11/2011 0:46	62.0	19/11/2011 1:56	61.4	20/11/2011 3:06	60.7	21/11/2011 4:16	57.0
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15/11/2011 6:36	62.9	16/11/2011 23:46	63.5	18/11/2011 0:56	60.7	19/11/2011 2:06	61.4	20/11/2011 3:16	61.1	21/11/2011 4:26	55.9
15/11/2011 6:41	64.5	16/11/2011 23:51	62.3	18/11/2011 1:01	60.4	19/11/2011 2:11	60.7	20/11/2011 3:21	61.1	21/11/2011 4:31	57.2
15/11/2011 6:46	64.4	16/11/2011 23:56	62.6	18/11/2011 1:06	61.0	19/11/2011 2:16	61.6	20/11/2011 3:26	61.3	21/11/2011 4:36	57.9
15/11/2011 6:51	65.0	17/11/2011 0:01	62.5	18/11/2011 1:11	60.9	19/11/2011 2:21	61.1	20/11/2011 3:31	60.9	21/11/2011 4:41	56.9
15/11/2011 6:56	65.0	17/11/2011 0:06	62.3	18/11/2011 1:16	61.0	19/11/2011 2:26	61.5	20/11/2011 3:36	61.0	21/11/2011 4:46	57.7
15/11/2011 23:01	58.6	17/11/2011 0:11	61.6	18/11/2011 1:21	61.6	19/11/2011 2:31	61.3	20/11/2011 3:41	61.3	21/11/2011 4:51	57.6
15/11/2011 23:06	59.8	17/11/2011 0:16	62.7	18/11/2011 1:26	60.5	19/11/2011 2:36	61.3	20/11/2011 3:46	61.4	21/11/2011 4:56	57.8
15/11/2011 23:11	58.8	17/11/2011 0:21	62.8	18/11/2011 1:31	60.3	19/11/2011 2:41	60.8	20/11/2011 3:51	61.5	21/11/2011 5:01	58.4
15/11/2011 23:16	58.5	17/11/2011 0:26	61.9	18/11/2011 1:36	60.4	19/11/2011 2:46	61.4	20/11/2011 3:56	60.7	21/11/2011 5:06	58.1
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15/11/2011 23:26	58.6	17/11/2011 0:36	61.9	18/11/2011 1:46	60.6	19/11/2011 2:56	61.3	20/11/2011 4:06	61.2	21/11/2011 5:16	58.8
15/11/2011 23:31	59.1	17/11/2011 0:41	61.5	18/11/2011 1:51	60.8	19/11/2011 3:01	60.0	20/11/2011 4:11	61.3	21/11/2011 5:21	58.3
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15/11/2011 23:56	58.7	17/11/2011 1:06	61.2	18/11/2011 2:16	58.6	19/11/2011 3:26	60.3	20/11/2011 4:36	60.7	21/11/2011 5:46	59.8
16/11/2011 0:01	63.1	17/11/2011 1:11	60.1	18/11/2011 2:21	59.9	19/11/2011 3:31	60.8	20/11/2011 4:41	61.9	21/11/2011 5:51	61.1
16/11/2011 0:06	62.6	17/11/2011 1:16	60.4	18/11/2011 2:26	59.6	19/11/2011 3:36	61.1	20/11/2011 4:46	60.1	21/11/2011 5:56	59.7
16/11/2011 0:11	62.6	17/11/2011 1:21	60.7	18/11/2011 2:31	59.6	19/11/2011 3:41	60.7	20/11/2011 4:51	60.9	21/11/2011 6:01	60.6
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16/11/2011 0:31	62.0	17/11/2011 1:41	59.3	18/11/2011 2:51	59.4	19/11/2011 4:01	59.7	20/11/2011 5:11	60.0	21/11/2011 6:21	62.7
16/11/2011 0:36	62.0	17/11/2011 1:46	60.7	18/11/2011 2:56	59.2	19/11/2011 4:06	59.5	20/11/2011 5:16	60.2	21/11/2011 6:26	63.1
16/11/2011 0:41	62.4	17/11/2011 1:51	60.3	18/11/2011 3:01	58.8	19/11/2011 4:11	59.4	20/11/2011 5:21	61.1	21/11/2011 6:31	63.5
16/11/2011 0:46	61.2	17/11/2011 1:56	59.5	18/11/2011 3:06	59.4	19/11/2011 4:16	59.7	20/11/2011 5:26	60.8	21/11/2011 6:36	63.6
16/11/2011 0:51	61.4	17/11/2011 2:01	59.7	18/11/2011 3:11	59.3	19/11/2011 4:21	59.6	20/11/2011 5:31	60.1	21/11/2011 6:41	64.1
16/11/2011 0:56	60.6	17/11/2011 2:06	60.5	18/11/2011 3:16	58.6	19/11/2011 4:26	59.3	20/11/2011 5:36	60.3	21/11/2011 6:46	64.0
16/11/2011 1:01	61.1	17/11/2011 2:11	59.5	18/11/2011 3:21	58.3	19/11/2011 4:31	61.0	20/11/2011 5:41	61.4	21/11/2011 6:51	64.5
16/11/2011 1:06	61.3	17/11/2011 2:16	59.1	18/11/2011 3:26	59.1	19/11/2011 4:36	59.3	20/11/2011 5:46	60.6	21/11/2011 6:56	64.3
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16/11/2011 1:26	60.2	17/11/2011 2:36	59.0	18/11/2011 3:46	57.8	19/11/2011 4:56	58.8	20/11/2011 6:06	61.7	21/11/2011 7:16	63.5
16/11/2011 1:31	60.3	17/11/2011 2:41	58.5	18/11/2011 3:51	58.7	19/11/2011 5:01	59.4	20/11/2011 6:11	63.1	21/11/2011 7:21	63.5
16/11/2011 1:36	60.1	17/11/2011 2:46	59.1	18/11/2011 3:56	58.5	19/11/2011 5:06	60.5	20/11/2011 6:16	62.8	21/11/2011 7:26	63.2
16/11/2011 1:41	59.8	17/11/2011 2:51	58.9	18/11/2011 4:01	58.6	19/11/2011 5:11	60.5	20/11/2011 6:21	62.6	21/11/2011 7:31	63.6
16/11/2011 1:46	60.1	17/11/2011 2:56	58.5	18/11/2011 4:06	59.1	19/11/2011 5:16	59.9	20/11/2011 6:26	63.1	21/11/2011 7:36	63.6
16/11/2011 1:51	60.2	17/11/2011 3:01	58.6	18/11/2011 4:11	58.5	19/11/2011 5:21	60.0	20/11/2011 6:31	62.7	21/11/2011 7:41	62.7
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16/11/2011 2:01	60.0	17/11/2011 3:11	58.3	18/11/2011 4:21	58.8	19/11/2011 5:31	61.3	20/11/2011 6:41	63.2	21/11/2011 7:51	63.0
16/11/2011 2:06	60.2	17/11/2011 3:16	58.0	18/11/2011 4:26	58						



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

22/11/2011 3:26	57.9	23/11/2011 4:36	59.4	24/11/2011 5:46	61.3	25/11/2011 6:56	65.3	27/11/2011 0:06	62.4
22/11/2011 3:31	57.2	23/11/2011 4:41	59.2	24/11/2011 5:51	61.0	25/11/2011 23:01	64.2	27/11/2011 0:11	62.2
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22/11/2011 3:46	58.3	23/11/2011 4:56	58.7	24/11/2011 6:06	61.5	25/11/2011 23:16	64.6	27/11/2011 0:26	61.9
22/11/2011 3:51	58.0	23/11/2011 5:01	62.0	24/11/2011 6:11	62.6	25/11/2011 23:21	63.1	27/11/2011 0:31	60.4
22/11/2011 3:56	58.5	23/11/2011 5:06	58.9	24/11/2011 6:16	63.0	25/11/2011 23:26	64.2	27/11/2011 0:36	62.3
22/11/2011 4:01	57.8	23/11/2011 5:11	59.2	24/11/2011 6:21	63.4	25/11/2011 23:31	63.8	27/11/2011 0:41	61.2
22/11/2011 4:06	58.9	23/11/2011 5:16	61.2	24/11/2011 6:26	64.0	25/11/2011 23:36	64.0	27/11/2011 0:46	61.6
22/11/2011 4:11	57.9	23/11/2011 5:21	59.6	24/11/2011 6:31	64.1	25/11/2011 23:41	64.1	27/11/2011 0:51	61.7
22/11/2011 4:16	58.1	23/11/2011 5:26	60.8	24/11/2011 6:36	63.8	25/11/2011 23:46	63.7	27/11/2011 0:56	62.2
22/11/2011 4:21	57.4	23/11/2011 5:31	60.6	24/11/2011 6:41	64.3	25/11/2011 23:51	63.5	27/11/2011 1:01	61.0
22/11/2011 4:26	57.9	23/11/2011 5:36	59.6	24/11/2011 6:46	64.3	25/11/2011 23:56	63.7	27/11/2011 1:06	61.4
22/11/2011 4:31	58.7	23/11/2011 5:41	62.9	24/11/2011 6:51	64.7	26/11/2011 0:01	63.7	27/11/2011 1:11	60.5
22/11/2011 4:36	58.0	23/11/2011 5:46	61.3	24/11/2011 6:56	64.6	26/11/2011 0:06	63.8	27/11/2011 1:16	61.0
22/11/2011 4:41	58.5	23/11/2011 5:51	61.2	24/11/2011 23:01	63.3	26/11/2011 0:11	63.2	27/11/2011 1:21	60.7
22/11/2011 4:46	58.6	23/11/2011 5:56	60.5	24/11/2011 23:06	63.5	26/11/2011 0:16	63.2	27/11/2011 1:26	60.9
22/11/2011 4:51	58.3	23/11/2011 6:01	60.8	24/11/2011 23:11	62.8	26/11/2011 0:21	63.7	27/11/2011 1:31	60.8
22/11/2011 4:56	58.7	23/11/2011 6:06	62.2	24/11/2011 23:16	63.1	26/11/2011 0:26	64.0	27/11/2011 1:36	59.8
22/11/2011 5:01	59.0	23/11/2011 6:11	62.3	24/11/2011 23:21	63.0	26/11/2011 0:31	63.4	27/11/2011 1:41	60.8
22/11/2011 5:06	58.3	23/11/2011 6:16	62.7	24/11/2011 23:26	63.4	26/11/2011 0:36	62.6	27/11/2011 1:46	60.2
22/11/2011 5:11	58.9	23/11/2011 6:21	62.2	24/11/2011 23:31	62.7	26/11/2011 0:41	62.7	27/11/2011 1:51	59.3
22/11/2011 5:16	58.8	23/11/2011 6:26	63.9	24/11/2011 23:36	62.9	26/11/2011 0:46	62.7	27/11/2011 1:56	59.5
22/11/2011 5:21	59.2	23/11/2011 6:31	63.2	24/11/2011 23:41	62.7	26/11/2011 0:51	62.7	27/11/2011 2:01	60.0
22/11/2011 5:26	60.1	23/11/2011 6:36	64.0	24/11/2011 23:46	63.1	26/11/2011 0:56	63.0	27/11/2011 2:06	59.1
22/11/2011 5:31	59.8	23/11/2011 6:41	64.3	24/11/2011 23:51	62.8	26/11/2011 1:01	62.3	27/11/2011 2:11	58.9
22/11/2011 5:36	60.2	23/11/2011 6:46	64.6	24/11/2011 23:56	62.5	26/11/2011 1:06	62.3	27/11/2011 2:16	59.8
22/11/2011 5:41	59.4	23/11/2011 6:51	65.3	25/11/2011 0:01	63.8	26/11/2011 1:11	61.6	27/11/2011 2:21	59.0
22/11/2011 5:46	60.6	23/11/2011 6:56	65.4	25/11/2011 0:06	62.4	26/11/2011 1:16	62.3	27/11/2011 2:26	60.2
22/11/2011 5:51	61.2	23/11/2011 23:01	64.0	25/11/2011 0:11	62.9	26/11/2011 1:21	61.6	27/11/2011 2:31	59.4
22/11/2011 5:56	60.0	23/11/2011 23:06	64.1	25/11/2011 0:16	63.3	26/11/2011 1:26	61.8	27/11/2011 2:36	58.6
22/11/2011 6:01	61.6	23/11/2011 23:11	63.8	25/11/2011 0:21	62.3	26/11/2011 1:31	61.6	27/11/2011 2:41	59.2
22/11/2011 6:06	62.5	23/11/2011 23:16	63.2	25/11/2011 0:26	61.5	26/11/2011 1:36	61.9	27/11/2011 2:46	59.5
22/11/2011 6:11	62.4	23/11/2011 23:21	63.4	25/11/2011 0:31	62.8	26/11/2011 1:41	61.6	27/11/2011 2:51	59.1
22/11/2011 6:16	62.3	23/11/2011 23:26	64.1	25/11/2011 0:36	61.0	26/11/2011 1:46	61.8	27/11/2011 2:56	57.9
22/11/2011 6:21	64.7	23/11/2011 23:31	63.1	25/11/2011 0:41	61.2	26/11/2011 1:51	61.3	27/11/2011 3:01	59.2
22/11/2011 6:26	64.0	23/11/2011 23:36	63.6	25/11/2011 0:46	62.2	26/11/2011 1:56	61.6	27/11/2011 3:06	58.2
22/11/2011 6:31	65.4	23/11/2011 23:41	63.2	25/11/2011 0:51	61.0	26/11/2011 2:01	61.3	27/11/2011 3:11	58.2
22/11/2011 6:36	64.2	23/11/2011 23:46	63.0	25/11/2011 0:56	60.1	26/11/2011 2:06	60.7	27/11/2011 3:16	58.8
22/11/2011 6:41	64.3	23/11/2011 23:51	63.8	25/11/2011 1:01	61.4	26/11/2011 2:11	61.4	27/11/2011 3:21	58.4
22/11/2011 6:46	64.6	23/11/2011 23:56	63.4	25/11/2011 1:06	60.1	26/11/2011 2:16	60.6	27/11/2011 3:26	58.9
22/11/2011 6:51	65.5	24/11/2011 0:01	62.6	25/11/2011 1:11	61.7	26/11/2011 2:21	60.9	27/11/2011 3:31	59.2
22/11/2011 6:56	65.0	24/11/2011 0:06	63.1	25/11/2011 1:16	61.0	26/11/2011 2:26	61.7	27/11/2011 3:36	58.7
22/11/2011 23:01	63.7	24/11/2011 0:11	62.8	25/11/2011 1:21	60.7	26/11/2011 2:31	61.2	27/11/2011 3:41	59.2
22/11/2011 23:06	63.7	24/11/2011 0:16	62.7	25/11/2011 1:26	60.6	26/11/2011 2:36	60.6	27/11/2011 3:46	59.0
22/11/2011 23:11	66.1	24/11/2011 0:21	62.9	25/11/2011 1:31	60.2	26/11/2011 2:41	61.1	27/11/2011 3:51	58.6
22/11/2011 23:16	64.0	24/11/2011 0:26	62.8	25/11/2011 1:36	59.9	26/11/2011 2:46	61.6	27/11/2011 3:56	59.5
22/11/2011 23:21	63.9	24/11/2011 0:31	61.9	25/11/2011 1:41	59.8	26/11/2011 2:51	60.5	27/11/2011 4:01	58.6
22/11/2011 23:26	63.9	24/11/2011 0:36	62.6	25/11/2011 1:46	59.7	26/11/2011 2:56	60.4	27/11/2011 4:06	58.9
22/11/2011 23:31	63.6	24/11/2011 0:41	62.0	25/11/2011 1:51	58.8	26/11/2011 3:01	60.9	27/11/2011 4:11	59.8
22/11/2011 23:36	63.7	24/11/2011 0:46	61.9	25/11/2011 1:56	59.3	26/11/2011 3:06	60.2	27/11/2011 4:16	58.7
22/11/2011 23:41	64.5	24/11/2011 0:51	61.0	25/11/2011 2:01	59.0	26/11/2011 3:11	61.1	27/11/2011 4:21	59.5
22/11/2011 23:46	62.6	24/11/2011 0:56	60.6	25/11/2011 2:06	59.1	26/11/2011 3:16	61.4	27/11/2011 4:26	58.1
22/11/2011 23:51	63.0	24/11/2011 1:01	61.4	25/11/2011 2:11	59.1	26/11/2011 3:21	60.5	27/11/2011 4:31	58.6
22/11/2011 23:56	62.7	24/11/2011 1:06	61.9	25/11/2011 2:16	58.7	26/11/2011 3:26	60.6	27/11/2011 4:36	59.2
23/11/2011 0:01	62.8	24/11/2011 1:11	60.9	25/11/2011 2:21	59.8	26/11/2011 3:31	58.8	27/11/2011 4:41	59.5
23/11/2011 0:06	63.7	24/11/2011 1:16	61.1	25/11/2011 2:26	59.2	26/11/2011 3:36	60.2	27/11/2011 4:46	59.5
23/11/2011 0:11	63.6	24/11/2011 1:21	60.6	25/11/2011 2:31	59.3	26/11/2011 3:41	60.5	27/11/2011 4:51	59.7
23/11/2011 0:16	62.3	24/11/2011 1:26	60.9	25/11/2011 2:36	60.1	26/11/2011 3:46	60.7	27/11/2011 4:56	59.3
23/11/2011 0:21	63.1	24/11/2011 1:31	60.4	25/11/2011 2:41	59.3	26/11/2011 3:51	60.4	27/11/2011 5:01	58.9
23/11/2011 0:26	63.1	24/11/2011 1:36	61.0	25/11/2011 2:46	59.4	26/11/2011 3:56	59.6	27/11/2011 5:06	60.4
23/11/2011 0:31	62.0	24/11/2011 1:41	60.8	25/11/2011 2:51	60.0	26/11/2011 4:01	59.2	27/11/2011 5:11	59.8
23/11/2011 0:36	61.7	24/11/2011 1:46	60.5	25/11/2011 2:56	59.1	26/11/2011 4:06	60.1	27/11/2011 5:16	59.5
23/11/2011 0:41	61.8	24/11/2011 1:51	59.9	25/11/2011 3:01	59.2	26/11/2011 4:11	59.6	27/11/2011 5:21	60.0
23/11/2011 0:46	62.5	24/11/2011 1:56	60.1	25/11/2011 3:06	58.7	26/11/2011 4:16	58.4	27/11/2011 5:26	61.6
23/11/2011 0:51	61.3	24/11/2011 2:01	60.3	25/11/2011 3:11	59.9	26/11/2011 4:21	59.6	27/11/2011 5:31	60.9
23/11/2011 0:56	61.8	24/11/2011 2:06	59.4	25/11/2011 3:16	59.2	26/11/2011 4:26	59.3	27/11/2011 5:36	61.2
23/11/2011 1:01	60.8	24/11/2011 2:11	60.0	25/11/2011 3:21	59.3	26/11/2011 4:31	59.6	27/11/2011 5:41	60.6
23/11/2011 1:06	60.9	24/11/2011 2:16	59.5	25/11/2011 3:26	59.5	26/11/2011 4:36	59.8	27/11/2011 5:46	61.1
23/11/2011 1:11	61.6	24/11/2011 2:21	60.6	25/11/2011 3:31	59.0	26/11/2011 4:41	59.5	27/11/2011 5:51	61.7
23/11/2011 1:16	62.6	24/11/2011 2:26	59.2	25/11/2011 3:36	58.9	26/11/2011 4:46	59.0	27/11/2011 5:56	62.1
23/11/2011 1:21	61.0	24/11/2011 2:31	60.2	25/11/2011 3:41	58.8	26/11/2011 4:51	59.5	27/11/2011 6:01	62.5
23/11/2011 1:26	61.1	24/11/2011 2:36	59.6	25/11/2011 3:46	58.5	26/11/2011 4:56	59.7	27/11/2011 6:06	62.4
23/11/2011 1:31	60.1	24/11/2011 2:41	58.9	25/11/2011 3:51	59.4	26/11/2011 5:01	59.3	27/11/2011 6:11	62.3
23/11/2011 1:36	60.6	24/11/2011 2:46	60.1	25/11/2011 3:56	58.8	26/11/2011 5:06	59.5	27/11/2011 6:16	63.7
23/11/2011 1:41	59.9	24/11/2011 2:51	59.5	25/11/2011 4:01	58.4	26/11/2011 5:11	59.9	27/11/2011 6:21	62.8
23/11/2011 1:46	60.2	24/11/2011 2:56	59.6	25/11/2011 4:06	58.3	26/11/2011 5:16	60.1	27/11/2011 6:26	63.6
23/11/2011 1:51	60.6	24/11/2011 3:01	58.7	25/11/2011 4:11	59.3	26/11/2011 5:21	60.4	27/11/2011 6:31	64.3
23/11/2011 1:56	61.2	24/11/2011 3:06	59.6	25/11/2011 4:16	58.4	26/11/2011 5:26	60.2	27/11/2011 6:36	64.9
23/11/2011 2:01	60.4	24/11/2011 3:11	58.7	25/11/2011 4:21	59.4	26/11/2011 5:31	60.6	27/11/2011 6:41	64.2
23/11/2011 2:06	59.8	24/11/2011 3:16	59.9	25/11/2011 4:26	58.7	26/11/2011 5:36	60.9	27/11/2011 6:46	64.8
23/11/2011 2:11	59.3	24/11/2011 3:21	59.1	25/11/2011 4:31	58.9	26/1			

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

Normal Day 07:00-19:00	2/11/2011 13:31	69.0	8/11/2011 8:31	68.7	12/11/2011 15:31	65.6	18/11/2011 10:31	68.4	23/11/2011 17:31	68.4
28/10/2011 7:01	62.4		8/11/2011 9:01	68.6	12/11/2011 16:01	67.3	18/11/2011 11:01	68.9	23/11/2011 18:01	66.6
28/10/2011 7:31	63.9		8/11/2011 14:31	68.0	12/11/2011 16:31	66.1	18/11/2011 11:31	67.6	23/11/2011 18:31	66.8
28/10/2011 8:01	67.4		2/11/2011 15:01	68.4	12/11/2011 17:01	69.2	18/11/2011 12:01	65.3	24/11/2011 7:01	63.3
28/10/2011 8:31	68.8		2/11/2011 15:31	66.7	12/11/2011 17:31	68.9	18/11/2011 12:31	66.1	24/11/2011 7:31	65.1
28/10/2011 9:01	67.9		2/11/2011 16:01	68.2	12/11/2011 18:01	67.2	18/11/2011 13:01	66.6	24/11/2011 8:01	67.3
28/10/2011 9:31	70.2		2/11/2011 16:31	68.1	12/11/2011 18:31	65.2	18/11/2011 13:31	67.1	24/11/2011 8:31	68.4
28/10/2011 10:01	69.7		2/11/2011 17:01	67.3	14/11/2011 7:01	64.1	18/11/2011 14:01	67.7	24/11/2011 9:01	67.9
28/10/2011 10:31	70.2		2/11/2011 17:31	66.5	14/11/2011 7:31	64.2	18/11/2011 14:31	67.0	24/11/2011 9:31	68.3
28/10/2011 11:01	69.8		2/11/2011 18:01	65.7	14/11/2011 8:01	67.7	18/11/2011 15:01	67.2	24/11/2011 10:01	69.2
28/10/2011 11:31	68.6		2/11/2011 18:31	64.5	14/11/2011 8:31	67.9	18/11/2011 15:31	66.7	24/11/2011 10:31	68.7
28/10/2011 12:01	60.8		3/11/2011 7:01	63.5	14/11/2011 9:01	67.9	18/11/2011 16:01	67.0	24/11/2011 11:01	68.8
28/10/2011 12:31	74.5		3/11/2011 7:31	64.6	14/11/2011 9:31	68.7	18/11/2011 16:31	66.8	24/11/2011 11:31	67.1
28/10/2011 13:01	69.2		3/11/2011 8:01	65.9	14/11/2011 10:01	68.1	18/11/2011 17:01	68.2	24/11/2011 12:01	66.6
28/10/2011 13:31	70.2		3/11/2011 8:31	69.8	14/11/2011 10:31	67.2	18/11/2011 17:31	68.9	24/11/2011 12:31	66.5
28/10/2011 14:01	69.1		3/11/2011 9:01	70.9	14/11/2011 11:01	68.6	18/11/2011 18:01	67.6	24/11/2011 13:01	69.6
28/10/2011 14:31	69.9		3/11/2011 9:31	67.0	14/11/2011 11:31	66.9	18/11/2011 18:31	65.9	24/11/2011 13:31	71.5
28/10/2011 15:01	68.4		3/11/2011 10:01	66.4	14/11/2011 12:01	66.7	19/11/2011 7:01	64.9	24/11/2011 14:01	72.1
28/10/2011 15:31	69.9		3/11/2011 10:31	65.4	14/11/2011 12:31	67.6	19/11/2011 7:31	66.4	24/11/2011 14:31	73.0
28/10/2011 16:01	69.5		3/11/2011 11:01	69.7	14/11/2011 13:01	68.5	19/11/2011 8:01	67.1	24/11/2011 15:01	71.8
28/10/2011 16:31	67.8		3/11/2011 11:31	66.7	14/11/2011 13:31	68.2	19/11/2011 8:31	67.4	24/11/2011 15:31	72.7
28/10/2011 17:01	67.8		3/11/2011 12:01	67.2	14/11/2011 14:01	68.6	19/11/2011 9:01	68.0	24/11/2011 16:01	70.9
28/10/2011 17:31	66.7		3/11/2011 12:31	68.8	14/11/2011 14:31	68.0	19/11/2011 9:31	68.4	24/11/2011 16:31	68.1
28/10/2011 18:01	67.1		3/11/2011 13:01	70.9	14/11/2011 15:01	68.3	19/11/2011 10:01	68.1	24/11/2011 17:01	66.9
28/10/2011 18:31	65.8		3/11/2011 13:31	69.8	14/11/2011 15:31	68.1	19/11/2011 10:31	68.0	24/11/2011 17:31	65.6
29/10/2011 7:01	63.3		3/11/2011 14:01	67.3	14/11/2011 16:01	68.0	19/11/2011 11:01	68.6	24/11/2011 18:01	71.7
29/10/2011 7:31	64.8		3/11/2011 14:31	66.9	14/11/2011 16:31	68.2	19/11/2011 11:31	67.0	24/11/2011 18:31	71.1
29/10/2011 8:01	68.8		3/11/2011 15:01	68.8	14/11/2011 17:01	67.6	19/11/2011 12:01	65.3	25/11/2011 7:01	60.7
29/10/2011 8:31	71.9		3/11/2011 15:31	68.5	14/11/2011 17:31	68.4	19/11/2011 12:31	65.2	25/11/2011 7:31	61.6
29/10/2011 9:01	70.0		3/11/2011 16:01	68.1	14/11/2011 18:01	69.3	19/11/2011 13:01	67.1	25/11/2011 8:01	62.9
29/10/2011 9:31	68.8		3/11/2011 16:31	69.4	14/11/2011 18:31	65.2	19/11/2011 13:31	67.6	25/11/2011 8:31	62.7
29/10/2011 10:01	68.1		3/11/2011 17:01	67.6	15/11/2011 7:01	64.0	19/11/2011 14:01	68.2	25/11/2011 9:01	63.9
29/10/2011 10:31	68.8		3/11/2011 17:31	67.7	15/11/2011 7:31	64.3	19/11/2011 14:31	67.5	25/11/2011 9:31	63.3
29/10/2011 11:01	68.5		3/11/2011 18:01	65.8	15/11/2011 8:01	67.6	19/11/2011 15:01	67.3	25/11/2011 10:01	63.3
29/10/2011 11:31	67.3		3/11/2011 18:31	65.0	15/11/2011 8:31	67.4	19/11/2011 15:31	67.7	25/11/2011 10:31	63.2
29/10/2011 12:01	64.1		4/11/2011 7:01	62.6	15/11/2011 9:01	67.2	19/11/2011 16:01	68.4	25/11/2011 11:01	63.5
29/10/2011 12:31	63.8		4/11/2011 7:31	64.1	15/11/2011 9:31	66.9	19/11/2011 16:31	70.3	25/11/2011 11:31	64.4
29/10/2011 13:01	67.3		4/11/2011 8:01	65.7	15/11/2011 10:01	68.0	19/11/2011 17:01	66.9	25/11/2011 12:01	63.6
29/10/2011 13:31	67.8		4/11/2011 8:31	67.6	15/11/2011 10:31	68.0	19/11/2011 17:31	66.5	25/11/2011 12:31	63.8
29/10/2011 14:01	68.5		4/11/2011 9:01	68.4	15/11/2011 11:01	67.5	19/11/2011 18:01	66.9	25/11/2011 13:01	63.4
29/10/2011 14:31	67.6		4/11/2011 9:31	68.8	15/11/2011 11:31	65.3	19/11/2011 18:31	65.7	25/11/2011 13:31	64.2
29/10/2011 15:01	67.7		4/11/2011 10:01	69.6	15/11/2011 12:01	63.8	21/11/2011 7:01	62.9	25/11/2011 14:01	64.7
29/10/2011 15:31	67.9		4/11/2011 10:31	68.1	15/11/2011 12:31	66.3	21/11/2011 7:31	66.5	25/11/2011 14:31	65.4
29/10/2011 16:01	67.6		4/11/2011 11:01	70.3	15/11/2011 13:01	67.5	21/11/2011 8:01	68.6	25/11/2011 15:01	64.8
29/10/2011 16:31	66.5		4/11/2011 11:31	67.8	15/11/2011 13:31	68.8	21/11/2011 8:31	68.2	25/11/2011 15:31	66.1
29/10/2011 17:01	66.6		4/11/2011 12:01	65.5	15/11/2011 14:01	68.8	21/11/2011 9:01	67.7	25/11/2011 16:01	65.5
29/10/2011 17:31	67.4		4/11/2011 12:31	67.2	15/11/2011 14:31	69.5	21/11/2011 9:31	69.1	25/11/2011 16:31	65.0
29/10/2011 18:01	66.2		4/11/2011 13:01	70.8	15/11/2011 15:01	69.5	21/11/2011 10:01	67.7	25/11/2011 17:01	65.6
29/10/2011 18:31	66.0		4/11/2011 13:31	69.7	15/11/2011 15:31	68.1	21/11/2011 10:31	68.0	25/11/2011 17:31	66.3
31/10/2011 7:01	63.6		4/11/2011 14:01	69.2	15/11/2011 16:01	69.5	21/11/2011 11:01	67.8	25/11/2011 18:01	65.0
31/10/2011 7:31	64.0		4/11/2011 14:31	70.1	15/11/2011 16:31	69.7	21/11/2011 11:31	66.7	25/11/2011 18:31	65.1
31/10/2011 8:01	66.9		4/11/2011 15:01	68.4	15/11/2011 17:01	69.6	21/11/2011 12:01	65.8	26/11/2011 7:01	62.2
31/10/2011 8:31	68.7		4/11/2011 15:31	68.0	15/11/2011 17:31	68.4	21/11/2011 12:31	65.8	26/11/2011 7:31	63.0
31/10/2011 9:01	69.4		4/11/2011 16:01	66.5	15/11/2011 18:01	68.1	21/11/2011 13:01	66.5	26/11/2011 8:01	64.1
31/10/2011 9:31	71.5		4/11/2011 16:31	66.7	15/11/2011 18:31	65.8	21/11/2011 13:31	68.8	26/11/2011 8:31	68.0
31/10/2011 10:01	68.8		4/11/2011 17:01	67.9	16/11/2011 7:01	64.3	21/11/2011 14:01	67.5	26/11/2011 9:01	71.6
31/10/2011 10:31	69.6		4/11/2011 17:31	67.4	16/11/2011 7:31	63.8	21/11/2011 14:31	68.0	26/11/2011 9:31	72.4
31/10/2011 11:01	68.1		4/11/2011 18:01	66.6	16/11/2011 8:01	66.1	21/11/2011 15:01	67.7	26/11/2011 10:01	72.2
31/10/2011 11:31	67.7		4/11/2011 18:31	65.1	16/11/2011 8:31	66.7	21/11/2011 15:31	66.7	26/11/2011 10:31	72.0
31/10/2011 12:01	65.5		5/11/2011 7:01	63.1	16/11/2011 9:01	66.6	21/11/2011 16:01	68.8	26/11/2011 11:01	71.6
31/10/2011 12:31	65.9		5/11/2011 7:31	65.1	16/11/2011 9:31	67.8	21/11/2011 16:31	69.0	26/11/2011 11:31	71.8
31/10/2011 13:01	68.2		5/11/2011 8:01	67.6	16/11/2011 10:01	66.7	21/11/2011 17:01	67.3	26/11/2011 12:01	70.2
31/10/2011 13:31	68.8		5/11/2011 8:31	67.9	16/11/2011 10:31	68.2	21/11/2011 17:31	67.3	26/11/2011 12:31	66.1
31/10/2011 14:01	68.3		5/11/2011 9:01	67.9	16/11/2011 11:01	68.1	21/11/2011 18:01	66.1	26/11/2011 13:01	66.7
31/10/2011 14:31	69.4		5/11/2011 9:31	67.9	16/11/2011 11:31	66.0	21/11/2011 18:31	64.4	26/11/2011 13:31	73.7
31/10/2011 15:01	67.3		5/11/2011 10:01	67.9	16/11/2011 12:01	64.9	22/11/2011 7:01	63.8	26/11/2011 14:01	71.7
31/10/2011 15:31	65.8		5/11/2011 10:31	67.0	16/11/2011 12:31	66.5	22/11/2011 7:31	63.5	26/11/2011 14:31	69.5
31/10/2011 16:01	67.2		5/11/2011 11:01	67.6	16/11/2011 13:01	67.3	22/11/2011 8:01	66.3	26/11/2011 15:01	64.9
31/10/2011 16:31	70.1		5/11/2011 11:31	65.2	16/11/2011 13:31	67.6	22/11/2011 8:31	68.0	26/11/2011 15:31	65.1
31/10/2011 17:01	71.2		5/11/2011 12:01	63.2	16/11/2011 14:01	68.0	22/11/2011 9:01	68.1	26/11/2011 16:01	62.8
31/10/2011 17:31	69.1		5/11/2011 12:31	65.0	16/11/2011 14:31	69.0	22/11/2011 9:31	68.6	26/11/2011 16:31	64.8
31/10/2011 18:01	69.5		5/11/2011 13:01	67.8	16/11/2011 15:01	68.9	22/11/2011 10:01	67.9	26/11/2011 17:01	65.1
31/10/2011 18:31	65.9		5/11/2011 13:31	68.5	16/11/2011 15:31	69.4	22/11/2011 10:31	67.2	26/11/2011 17:31	65.9
1/11/2011 7:01	66.0		5/11/2011 14:01	67.6	16/11/2011 16:01	69.8	22/11/2011 11:01	66.2	26/11/2011 18:01	65.2
1/11/2011 7:31	68.9		5/11/2011 14:31	68.2	16/11/2011 16:31	69.9	22/11/2011 11:31	66.2	26/11/2011 18:31	67.7
1/11/2011 8:01	68.8		5/11/2011 15:01	68.6	16/11/2011 17:01	70.3	22/11/2011 12:01	65.2		
1/11/2011 8:31	63.3		5/11/2011 15:31	71.9	16/11/2011 17:31	69.3	22/11/2011 12:31	66.0	<u>Normal Day 19:00-23:00</u>	
1/11/2011 9:01	69.0		5/11/2011 16:01	68.7	16/11/2011 18:01	67.3	22/11/2011 13:01	66.9	<u>Sunday &amp; Holiday 07:00-23:00</u>	
1/11/2011 9:31	68.8		5/11/2011 16:31	67.5	16					

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

28/10/2011 21:41 62.2	30/10/2011 10:51 67.7	30/10/2011 20:01 62.3	1/11/2011 21:11 62.2	3/11/2011 22:21 61.2	6/11/2011 7:31 61.4
28/10/2011 21:46 61.7	30/10/2011 10:56 65.4	30/10/2011 20:06 62.2	1/11/2011 21:16 61.6	3/11/2011 22:26 62.5	6/11/2011 7:36 63.6
28/10/2011 21:51 61.6	30/10/2011 11:01 64.1	30/10/2011 20:11 61.4	1/11/2011 21:21 62.2	3/11/2011 22:31 61.7	6/11/2011 7:41 62.7
28/10/2011 21:56 62.0	30/10/2011 11:06 64.8	30/10/2011 20:16 62.1	1/11/2011 21:26 62.4	3/11/2011 22:36 64.3	6/11/2011 7:46 63.5
28/10/2011 22:01 62.0	30/10/2011 11:11 67.0	30/10/2011 20:21 61.4	1/11/2011 21:31 61.5	3/11/2011 22:41 62.2	6/11/2011 7:51 65.8
28/10/2011 22:06 62.0	30/10/2011 11:16 64.2	30/10/2011 20:26 61.2	1/11/2011 21:36 61.7	3/11/2011 22:46 61.6	6/11/2011 7:56 62.8
28/10/2011 22:11 62.3	30/10/2011 11:21 64.3	30/10/2011 20:31 61.7	1/11/2011 21:41 61.5	3/11/2011 22:51 61.2	6/11/2011 8:01 64.8
28/10/2011 22:16 62.0	30/10/2011 11:26 66.9	30/10/2011 20:36 61.2	1/11/2011 21:46 61.7	3/11/2011 22:56 61.2	6/11/2011 8:06 62.7
28/10/2011 22:21 61.9	30/10/2011 11:31 61.9	30/10/2011 20:41 61.9	1/11/2011 21:51 61.1	4/11/2011 19:01 65.3	6/11/2011 8:11 64.4
28/10/2011 22:26 61.9	30/10/2011 11:36 62.2	30/10/2011 20:46 63.4	1/11/2011 21:56 62.5	4/11/2011 19:06 67.3	6/11/2011 8:16 63.7
28/10/2011 22:31 61.9	30/10/2011 11:41 62.9	30/10/2011 20:51 61.7	1/11/2011 22:01 62.0	4/11/2011 19:11 64.2	6/11/2011 8:21 63.6
28/10/2011 22:36 62.4	30/10/2011 11:46 62.4	30/10/2011 20:56 60.5	1/11/2011 22:06 61.8	4/11/2011 19:16 63.2	6/11/2011 8:26 64.0
28/10/2011 22:41 62.8	30/10/2011 11:51 62.3	30/10/2011 21:01 61.4	1/11/2011 22:11 61.8	4/11/2011 19:21 63.5	6/11/2011 8:31 63.7
28/10/2011 22:46 62.0	30/10/2011 11:56 64.6	30/10/2011 21:06 61.4	1/11/2011 22:16 61.9	4/11/2011 19:26 62.4	6/11/2011 8:36 65.0
28/10/2011 22:51 62.0	30/10/2011 12:01 61.1	30/10/2011 21:11 61.8	1/11/2011 22:21 60.9	4/11/2011 19:31 63.1	6/11/2011 8:41 68.2
28/10/2011 22:56 61.9	30/10/2011 12:06 62.0	30/10/2011 21:16 61.9	1/11/2011 22:26 63.2	4/11/2011 19:36 64.2	6/11/2011 8:46 67.3
29/10/2011 19:01 64.1	30/10/2011 12:11 61.5	30/10/2011 21:21 61.1	1/11/2011 22:31 61.4	4/11/2011 19:41 63.1	6/11/2011 8:51 65.0
29/10/2011 19:06 64.6	30/10/2011 12:16 61.9	30/10/2011 21:26 61.9	1/11/2011 22:36 61.5	4/11/2011 19:46 63.5	6/11/2011 8:56 65.4
29/10/2011 19:11 64.2	30/10/2011 12:21 62.5	30/10/2011 21:31 62.7	1/11/2011 22:41 61.6	4/11/2011 19:51 64.1	6/11/2011 9:01 64.8
29/10/2011 19:16 63.3	30/10/2011 12:26 62.8	30/10/2011 21:36 61.5	1/11/2011 22:46 61.5	4/11/2011 19:56 64.4	6/11/2011 9:06 64.5
29/10/2011 19:21 63.1	30/10/2011 12:31 62.9	30/10/2011 21:41 61.4	1/11/2011 22:51 61.3	4/11/2011 20:01 63.7	6/11/2011 9:11 63.6
29/10/2011 19:26 63.7	30/10/2011 12:36 64.2	30/10/2011 21:46 62.6	1/11/2011 22:56 60.7	4/11/2011 20:06 63.5	6/11/2011 9:16 63.2
29/10/2011 19:31 63.9	30/10/2011 12:41 63.8	30/10/2011 21:51 61.4	2/11/2011 19:01 64.3	4/11/2011 20:11 64.5	6/11/2011 9:21 64.1
29/10/2011 19:36 64.4	30/10/2011 12:46 64.4	30/10/2011 21:56 61.1	2/11/2011 19:06 64.2	4/11/2011 20:16 64.6	6/11/2011 9:26 64.2
29/10/2011 19:41 63.5	30/10/2011 12:51 63.2	30/10/2011 22:01 60.8	2/11/2011 19:11 62.4	4/11/2011 20:21 65.3	6/11/2011 9:31 63.5
29/10/2011 19:46 63.5	30/10/2011 12:56 61.7	30/10/2011 22:06 60.5	2/11/2011 19:16 62.6	4/11/2011 20:26 64.0	6/11/2011 9:36 63.5
29/10/2011 19:51 63.9	30/10/2011 13:01 61.6	30/10/2011 22:11 60.6	2/11/2011 19:21 63.1	4/11/2011 20:31 64.1	6/11/2011 9:41 62.8
29/10/2011 19:56 63.3	30/10/2011 13:06 63.2	30/10/2011 22:16 61.3	2/11/2011 19:26 62.4	4/11/2011 20:36 64.5	6/11/2011 9:46 63.3
29/10/2011 20:01 63.2	30/10/2011 13:11 65.7	30/10/2011 22:21 62.0	2/11/2011 19:31 62.3	4/11/2011 20:41 64.5	6/11/2011 9:51 63.3
29/10/2011 20:06 63.5	30/10/2011 13:16 65.5	30/10/2011 22:26 61.4	2/11/2011 19:36 63.5	4/11/2011 20:46 64.0	6/11/2011 9:56 63.9
29/10/2011 20:11 61.8	30/10/2011 13:21 63.5	30/10/2011 22:31 61.9	2/11/2011 19:41 61.9	4/11/2011 20:51 63.8	6/11/2011 10:01 63.4
29/10/2011 20:16 62.2	30/10/2011 13:26 63.1	30/10/2011 22:36 61.2	2/11/2011 19:46 61.9	4/11/2011 20:56 62.9	6/11/2011 10:06 64.0
29/10/2011 20:21 62.1	30/10/2011 13:31 62.2	30/10/2011 22:41 61.1	2/11/2011 19:51 64.3	4/11/2011 21:01 64.2	6/11/2011 10:11 63.6
29/10/2011 20:26 61.9	30/10/2011 13:36 60.3	30/10/2011 22:46 60.7	2/11/2011 19:56 61.6	4/11/2011 21:06 64.1	6/11/2011 10:16 63.4
29/10/2011 20:31 61.4	30/10/2011 13:41 62.9	30/10/2011 22:51 61.7	2/11/2011 20:01 62.0	4/11/2011 21:11 65.0	6/11/2011 10:21 63.5
29/10/2011 20:36 61.3	30/10/2011 13:46 63.4	30/10/2011 22:56 60.1	2/11/2011 20:06 61.7	4/11/2011 21:16 65.2	6/11/2011 10:26 64.8
29/10/2011 20:41 61.2	30/10/2011 13:51 63.7	31/10/2011 19:01 64.7	2/11/2011 20:11 62.0	4/11/2011 21:21 64.7	6/11/2011 10:31 64.1
29/10/2011 20:46 61.4	30/10/2011 13:56 62.4	31/10/2011 19:06 64.4	2/11/2011 20:16 63.2	4/11/2011 21:26 64.6	6/11/2011 10:36 63.7
29/10/2011 20:51 61.6	30/10/2011 14:01 61.2	31/10/2011 19:11 63.4	2/11/2011 20:21 63.5	4/11/2011 21:31 63.6	6/11/2011 10:41 63.9
29/10/2011 20:56 62.2	30/10/2011 14:06 62.9	31/10/2011 19:16 65.4	2/11/2011 20:26 62.7	4/11/2011 21:36 64.0	6/11/2011 10:46 64.2
29/10/2011 21:01 62.3	30/10/2011 14:11 61.3	31/10/2011 19:21 65.0	2/11/2011 20:31 63.0	4/11/2011 21:41 65.0	6/11/2011 10:51 63.6
29/10/2011 21:06 62.0	30/10/2011 14:16 61.0	31/10/2011 19:26 66.2	2/11/2011 20:36 63.9	4/11/2011 21:46 64.3	6/11/2011 10:56 64.2
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29/10/2011 21:21 61.0	30/10/2011 14:31 61.1	31/10/2011 19:41 62.5	2/11/2011 20:51 61.9	4/11/2011 22:01 63.8	6/11/2011 11:11 64.5
29/10/2011 21:26 61.8	30/10/2011 14:36 60.4	31/10/2011 19:46 61.7	2/11/2011 20:56 61.4	4/11/2011 22:06 61.8	6/11/2011 11:16 65.4
29/10/2011 21:31 61.9	30/10/2011 14:41 62.4	31/10/2011 19:51 61.8	2/11/2011 21:01 62.0	4/11/2011 22:11 62.8	6/11/2011 11:21 65.2
29/10/2011 21:36 60.9	30/10/2011 14:46 62.2	31/10/2011 19:56 64.2	2/11/2011 21:06 61.6	4/11/2011 22:16 63.9	6/11/2011 11:26 65.5
29/10/2011 21:41 61.0	30/10/2011 14:51 63.0	31/10/2011 20:01 61.9	2/11/2011 21:11 62.5	4/11/2011 22:21 63.4	6/11/2011 11:31 64.7
29/10/2011 21:46 61.3	30/10/2011 14:56 63.0	31/10/2011 20:06 62.4	2/11/2011 21:16 64.0	4/11/2011 22:26 63.5	6/11/2011 11:36 63.9
29/10/2011 21:51 63.1	30/10/2011 15:01 62.0	31/10/2011 20:11 62.2	2/11/2011 21:21 61.7	4/11/2011 22:31 62.6	6/11/2011 11:41 63.3
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29/10/2011 22:21 61.8	30/10/2011 15:31 61.1	31/10/2011 20:41 62.1	2/11/2011 21:51 61.9	5/11/2011 19:01 64.1	6/11/2011 12:11 63.2
29/10/2011 22:26 61.8	30/10/2011 15:36 61.8	31/10/2011 20:46 62.2	2/11/2011 21:56 61.2	5/11/2011 19:06 64.2	6/11/2011 12:16 62.3
29/10/2011 22:31 62.2	30/10/2011 15:41 61.6	31/10/2011 20:51 61.5	2/11/2011 22:01 61.5	5/11/2011 19:11 63.7	6/11/2011 12:21 62.8
29/10/2011 22:36 61.3	30/10/2011 15:46 65.1	31/10/2011 20:56 61.5	2/11/2011 22:06 61.5	5/11/2011 19:16 64.2	6/11/2011 12:26 61.9
29/10/2011 22:41 61.4	30/10/2011 15:51 63.3	31/10/2011 21:01 64.0	2/11/2011 22:11 61.4	5/11/2011 19:21 62.8	6/11/2011 12:31 64.6
29/10/2011 22:46 61.8	30/10/2011 15:56 61.9	31/10/2011 21:06 62.8	2/11/2011 22:16 62.0	5/11/2011 19:26 63.5	6/11/2011 12:36 63.6
29/10/2011 22:51 61.9	30/10/2011 16:01 63.1	31/10/2011 21:11 61.9	2/11/2011 22:21 61.3	5/11/2011 19:31 61.5	6/11/2011 12:41 63.9
29/10/2011 22:56 61.9	30/10/2011 16:06 62.5	31/10/2011 21:16 61.6	2/11/2011 22:26 61.8	5/11/2011 19:36 61.7	6/11/2011 12:46 63.6
30/10/2011 7:01 61.8	30/10/2011 16:11 62.8	31/10/2011 21:21 61.5	2/11/2011 22:31 61.4	5/11/2011 19:41 62.6	6/11/2011 12:51 64.1
30/10/2011 7:06 61.7	30/10/2011 16:16 64.4	31/10/2011 21:26 61.9	2/11/2011 22:36 61.8	5/11/2011 19:46 61.9	6/11/2011 12:56 63.9
30/10/2011 7:11 62.9	30/10/2011 16:21 62.3	31/10/2011 21:31 61.9	2/11/2011 22:41 60.5	5/11/2011 19:51 61.5	6/11/2011 13:01 63.1
30/10/2011 7:16 62.7	30/10/2011 16:26 62.6	31/10/2011 21:36 62.6	2/11/2011 22:46 61.0	5/11/2011 19:56 61.4	6/11/2011 13:06 63.7
30/10/2011 7:21 62.1	30/10/2011 16:31 63.0	31/10/2011 21:41 61.2	2/11/2011 22:51 61.1	5/11/2011 20:01 61.8	6/11/2011 13:11 61.9
30/10/2011 7:26 63.9	30/10/2011 16:36 63.1	31/10/2011 21:46 61.3	2/11/2011 22:56 61.6	5/11/2011 20:06 61.6	6/11/2011 13:16 62.5
30/10/2011 7:31 61.0	30/10/2011 16:41 63.8	31/10/2011 21:51 62.0	3/11/2011 19:01 65.8	5/11/2011 20:11 62.2	6/11/2011 13:21 62.4
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30/10/2011 7:41 61.8	30/10/2011 16:51 66.1	31/10/2011 22:01 63.1	3/11/2011 19:11 63.8	5/11/2011 20:21 62.0	6/11/2011 13:31 62.3
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30/10/2011 7:56 61.4	30/10/2011 17:06 62.4	31/10/2011 22:16 61.6	3/11/2011 19:26 62.0	5/11/2011 20:36 61.6	6/11/2011 13:46 62.4
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30/10/2011 8:06 63.5	30/10/2011 17:16 62.7	31/10/2011 22:26 62.0	3/11/2011 19:36 62.5	5/11/2011 20:46 61.4	6/11/2011 13:56 63.4
30/10/2011 8					

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

6/11/2011 16:41	66.8	7/11/2011 21:51	62.1	10/11/2011 19:01	61.0	12/11/2011 20:11	63.2	13/11/2011 13:21	62.4	13/11/2011 22:31	61.6
6/11/2011 16:46	64.3	7/11/2011 21:56	61.7	10/11/2011 19:06	61.7	12/11/2011 20:16	62.7	13/11/2011 13:26	63.1	13/11/2011 22:36	61.9
6/11/2011 16:51	63.6	7/11/2011 22:01	62.6	10/11/2011 19:11	61.8	12/11/2011 20:21	62.2	13/11/2011 13:31	63.4	13/11/2011 22:41	61.8
6/11/2011 16:56	62.8	7/11/2011 22:06	61.8	10/11/2011 19:16	62.0	12/11/2011 20:26	62.8	13/11/2011 13:36	62.1	13/11/2011 22:46	61.5
6/11/2011 17:01	64.8	7/11/2011 22:11	62.1	10/11/2011 19:21	62.4	12/11/2011 20:31	61.6	13/11/2011 13:41	63.1	13/11/2011 22:51	61.8
6/11/2011 17:06	62.6	7/11/2011 22:16	60.8	10/11/2011 19:26	62.4	12/11/2011 20:36	62.0	13/11/2011 13:46	63.1	13/11/2011 22:56	62.1
6/11/2011 17:11	62.4	7/11/2011 22:21	60.9	10/11/2011 19:31	62.3	12/11/2011 20:41	64.2	13/11/2011 13:51	63.9	14/11/2011 19:01	64.0
6/11/2011 17:16	63.1	7/11/2011 22:26	61.5	10/11/2011 19:36	61.5	12/11/2011 20:46	61.9	13/11/2011 13:56	63.8	14/11/2011 19:06	63.3
6/11/2011 17:21	62.3	7/11/2011 22:31	61.0	10/11/2011 19:41	62.3	12/11/2011 20:51	62.2	13/11/2011 14:01	63.9	14/11/2011 19:11	64.1
6/11/2011 17:26	61.9	7/11/2011 22:36	61.8	10/11/2011 19:46	62.7	12/11/2011 20:56	62.3	13/11/2011 14:06	63.8	14/11/2011 19:16	64.5
6/11/2011 17:31	63.3	7/11/2011 22:41	61.5	10/11/2011 19:51	63.3	12/11/2011 21:01	61.2	13/11/2011 14:11	62.7	14/11/2011 19:21	63.0
6/11/2011 17:36	61.6	7/11/2011 22:46	60.9	10/11/2011 19:56	63.4	12/11/2011 21:06	62.5	13/11/2011 14:16	64.4	14/11/2011 19:26	62.6
6/11/2011 17:41	65.9	7/11/2011 22:51	61.7	10/11/2011 20:01	63.5	12/11/2011 21:11	61.7	13/11/2011 14:21	62.5	14/11/2011 19:31	62.8
6/11/2011 17:46	63.7	7/11/2011 22:56	62.1	10/11/2011 20:06	63.0	12/11/2011 21:16	61.2	13/11/2011 14:26	62.8	14/11/2011 19:36	62.9
6/11/2011 17:51	63.1	8/11/2011 19:01	63.3	10/11/2011 20:11	63.2	12/11/2011 21:21	62.1	13/11/2011 14:31	62.8	14/11/2011 19:41	63.0
6/11/2011 17:56	64.6	8/11/2011 19:06	63.5	10/11/2011 20:16	62.9	12/11/2011 21:26	62.4	13/11/2011 14:36	65.3	14/11/2011 19:46	62.3
6/11/2011 18:01	64.8	8/11/2011 19:11	63.6	10/11/2011 20:21	64.2	12/11/2011 21:31	62.0	13/11/2011 14:41	62.8	14/11/2011 19:51	63.8
6/11/2011 18:06	66.9	8/11/2011 19:16	63.4	10/11/2011 20:26	62.7	12/11/2011 21:36	63.2	13/11/2011 14:46	63.5	14/11/2011 19:56	61.9
6/11/2011 18:11	66.4	8/11/2011 19:21	63.4	10/11/2011 20:31	63.9	12/11/2011 21:41	61.9	13/11/2011 14:51	66.8	14/11/2011 20:01	62.4
6/11/2011 18:16	66.4	8/11/2011 19:26	63.7	10/11/2011 20:36	63.4	12/11/2011 21:46	62.2	13/11/2011 14:56	66.3	14/11/2011 20:06	62.0
6/11/2011 18:21	65.9	8/11/2011 19:31	63.8	10/11/2011 20:41	63.0	12/11/2011 21:51	63.2	13/11/2011 15:01	65.2	14/11/2011 20:11	62.5
6/11/2011 18:26	67.4	8/11/2011 19:36	63.9	10/11/2011 20:46	62.0	12/11/2011 21:56	61.8	13/11/2011 15:06	63.1	14/11/2011 20:16	62.4
6/11/2011 18:31	62.1	8/11/2011 19:41	64.6	10/11/2011 20:51	62.8	12/11/2011 22:01	61.9	13/11/2011 15:11	65.4	14/11/2011 20:21	62.9
6/11/2011 18:36	63.0	8/11/2011 19:46	63.7	10/11/2011 20:56	62.4	12/11/2011 22:06	61.7	13/11/2011 15:16	64.0	14/11/2011 20:26	62.5
6/11/2011 18:41	62.0	8/11/2011 19:51	64.0	10/11/2011 21:01	62.4	12/11/2011 22:11	61.8	13/11/2011 15:21	63.2	14/11/2011 20:31	62.2
6/11/2011 18:46	61.9	8/11/2011 19:56	64.7	10/11/2011 21:06	62.7	12/11/2011 22:16	63.0	13/11/2011 15:26	64.2	14/11/2011 20:36	62.1
6/11/2011 18:51	62.1	8/11/2011 20:01	64.0	10/11/2011 21:11	62.8	12/11/2011 22:21	62.0	13/11/2011 15:31	63.8	14/11/2011 20:41	62.4
6/11/2011 18:56	61.6	8/11/2011 20:06	63.9	10/11/2011 21:16	63.1	12/11/2011 22:26	61.5	13/11/2011 15:36	64.4	14/11/2011 20:46	63.1
6/11/2011 19:01	62.1	8/11/2011 20:11	64.8	10/11/2011 21:21	62.6	12/11/2011 22:31	61.6	13/11/2011 15:41	65.2	14/11/2011 20:51	62.2
6/11/2011 19:06	61.8	8/11/2011 20:16	64.4	10/11/2011 21:26	63.7	12/11/2011 22:36	61.9	13/11/2011 15:46	64.8	14/11/2011 20:56	62.0
6/11/2011 19:11	61.8	8/11/2011 20:21	64.2	10/11/2011 21:31	62.2	12/11/2011 22:41	62.6	13/11/2011 15:51	63.7	14/11/2011 21:01	62.2
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6/11/2011 19:21	61.9	8/11/2011 20:31	64.4	10/11/2011 21:41	63.1	12/11/2011 22:51	63.2	13/11/2011 16:01	62.8	14/11/2011 21:11	62.2
6/11/2011 19:26	61.2	8/11/2011 20:36	63.8	10/11/2011 21:46	63.9	12/11/2011 22:56	63.9	13/11/2011 16:06	64.5	14/11/2011 21:16	62.2
6/11/2011 19:31	63.1	8/11/2011 20:41	64.3	10/11/2011 21:51	63.7	13/11/2011 7:01	62.4	13/11/2011 16:11	63.3	14/11/2011 21:21	61.8
6/11/2011 19:36	62.0	8/11/2011 20:46	63.8	10/11/2011 21:56	62.5	13/11/2011 7:06	62.2	13/11/2011 16:16	63.3	14/11/2011 21:26	62.8
6/11/2011 19:41	62.2	8/11/2011 20:51	64.1	10/11/2011 22:01	62.5	13/11/2011 7:11	62.4	13/11/2011 16:21	63.1	14/11/2011 21:31	61.7
6/11/2011 19:46	61.4	8/11/2011 20:56	63.2	10/11/2011 22:06	62.2	13/11/2011 7:16	61.8	13/11/2011 16:26	62.6	14/11/2011 21:36	61.6
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6/11/2011 19:56	61.8	8/11/2011 21:06	63.8	10/11/2011 22:16	62.4	13/11/2011 7:26	62.6	13/11/2011 16:36	63.7	14/11/2011 21:46	62.0
6/11/2011 20:01	61.1	8/11/2011 21:11	64.3	10/11/2011 22:21	62.2	13/11/2011 7:31	62.2	13/11/2011 16:41	62.7	14/11/2011 21:51	61.9
6/11/2011 20:06	61.3	8/11/2011 21:16	63.6	10/11/2011 22:26	62.3	13/11/2011 7:36	61.8	13/11/2011 16:46	63.9	14/11/2011 21:56	62.4
6/11/2011 20:11	61.8	8/11/2011 21:21	64.3	10/11/2011 22:31	62.0	13/11/2011 7:41	62.5	13/11/2011 16:51	65.3	14/11/2011 22:01	61.7
6/11/2011 20:16	61.2	8/11/2011 21:26	64.3	10/11/2011 22:36	62.7	13/11/2011 7:46	63.0	13/11/2011 16:56	63.6	14/11/2011 22:06	62.8
6/11/2011 20:21	60.9	8/11/2011 21:31	63.6	10/11/2011 22:41	62.6	13/11/2011 7:51	63.1	13/11/2011 17:01	63.3	14/11/2011 22:11	61.8
6/11/2011 20:26	61.1	8/11/2011 21:36	63.7	10/11/2011 22:46	62.9	13/11/2011 7:56	62.5	13/11/2011 17:06	63.4	14/11/2011 22:16	61.9
6/11/2011 20:31	62.2	8/11/2011 21:41	63.5	10/11/2011 22:51	62.4	13/11/2011 8:01	62.2	13/11/2011 17:11	63.0	14/11/2011 22:21	61.5
6/11/2011 20:36	61.8	8/11/2011 21:46	63.8	10/11/2011 22:56	62.6	13/11/2011 8:06	62.4	13/11/2011 17:16	62.8	14/11/2011 22:26	62.4
6/11/2011 20:41	61.8	8/11/2011 21:51	64.1	10/11/2011 19:01	63.2	13/11/2011 8:11	62.1	13/11/2011 17:21	62.7	14/11/2011 22:31	61.3
6/11/2011 20:46	61.7	8/11/2011 21:56	63.8	11/11/2011 19:06	64.5	13/11/2011 8:16	62.6	13/11/2011 17:26	64.4	14/11/2011 22:36	62.8
6/11/2011 20:51	61.3	8/11/2011 22:01	63.4	11/11/2011 19:11	66.0	13/11/2011 8:21	62.8	13/11/2011 17:31	62.2	14/11/2011 22:41	62.2
6/11/2011 20:56	62.1	8/11/2011 22:06	63.2	11/11/2011 19:16	64.3	13/11/2011 8:26	62.5	13/11/2011 17:36	62.3	14/11/2011 22:46	61.3
6/11/2011 21:01	62.0	8/11/2011 22:11	63.3	11/11/2011 19:21	64.0	13/11/2011 8:31	64.3	13/11/2011 17:41	62.0	14/11/2011 22:51	62.1
6/11/2011 21:06	61.9	8/11/2011 22:16	63.5	11/11/2011 19:26	64.8	13/11/2011 8:36	62.7	13/11/2011 17:46	61.9	14/11/2011 22:56	62.1
6/11/2011 21:11	62.0	8/11/2011 22:21	63.0	11/11/2011 19:31	64.5	13/11/2011 8:41	64.8	13/11/2011 17:51	62.9	15/11/2011 19:01	62.8
6/11/2011 21:16	61.1	8/11/2011 22:26	63.0	11/11/2011 19:36	65.0	13/11/2011 8:46	63.2	13/11/2011 17:56	62.1	15/11/2011 19:06	63.0
6/11/2011 21:21	61.8	8/11/2011 22:31	64.0	11/11/2011 19:41	64.8	13/11/2011 8:51	65.3	13/11/2011 18:01	65.2	15/11/2011 19:11	64.5
6/11/2011 21:26	62.0	8/11/2011 22:36	63.1	11/11/2011 19:46	64.9	13/11/2011 8:56	63.7	13/11/2011 18:06	63.8	15/11/2011 19:16	64.5
6/11/2011 21:31	61.3	8/11/2011 22:41	64.3	11/11/2011 19:51	64.9	13/11/2011 9:01	62.9	13/11/2011 18:11	65.4	15/11/2011 19:21	66.1
6/11/2011 21:36	61.6	8/11/2011 22:46	64.6	11/11/2011 19:56	65.5	13/11/2011 9:06	63.3	13/11/2011 18:16	62.5	15/11/2011 19:26	66.7
6/11/2011 21:41	61.2	8/11/2011 22:51	63.4	11/11/2011 20:01	65.9	13/11/2011 9:11	63.1	13/11/2011 18:21	62.1	15/11/2011 19:31	66.1
6/11/2011 21:46	62.0	8/11/2011 22:56	63.1	11/11/2011 20:06	65.8	13/11/2011 9:16	64.0	13/11/2011 18:26	62.1	15/11/2011 19:36	65.8
6/11/2011 21:51	61.6	9/11/2011 19:01	63.7	11/11/2011 20:11	65.7	13/11/2011 9:21	63.6	13/11/2011 18:31	61.9	15/11/2011 19:41	64.7
6/11/2011 21:56	62.7	9/11/2011 19:06	64.2	11/11/2011 20:16	66.0	13/11/2011 9:26	63.6	13/11/2011 18:36	63.0	15/11/2011 19:46	66.4
6/11/2011 22:01	62.2	9/11/2011 19:11	64.4	11/11/2011 20:21	65.7	13/11/2011 9:31	63.6	13/11/2011 18:41	62.2	15/11/2011 19:51	65.0
6/11/2011 22:06	61.7	9/11/2011 19:16	64.7	11/11/2011 20:26	65.5	13/11/2011 9:36	62.9	13/11/2011 18:46	61.9	15/11/2011 19:56	64.9
6/11/2011 22:11	61.4	9/11/2011 19:21	64.9	11/11/2011 20:31	66.0	13/11/2011 9:41	64.0	13/11/2011 18:51	62.7	15/11/2011 20:01	65.4
6/11/2011 22:16	61.8	9/11/2011 19:26	64.8	11/11/							

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

16/11/2011 19:41 63.1	18/11/2011 20:51 65.7	20/11/2011 10:01 63.3	20/11/2011 19:11 63.0	22/11/2011 20:21 66.5	24/11/2011 21:31 68.6
16/11/2011 19:46 62.6	18/11/2011 20:56 66.5	20/11/2011 10:06 64.2	20/11/2011 19:16 62.3	22/11/2011 20:26 67.3	24/11/2011 21:36 58.3
16/11/2011 19:51 62.5	18/11/2011 21:01 66.6	20/11/2011 10:11 64.7	20/11/2011 19:21 63.0	22/11/2011 20:31 67.2	24/11/2011 21:41 62.6
16/11/2011 19:56 62.0	18/11/2011 21:06 65.5	20/11/2011 10:16 63.6	20/11/2011 19:26 62.6	22/11/2011 20:36 65.8	24/11/2011 21:46 65.6
16/11/2011 20:01 62.5	18/11/2011 21:11 66.4	20/11/2011 10:21 63.7	20/11/2011 19:31 62.6	22/11/2011 20:41 66.8	24/11/2011 21:51 66.0
16/11/2011 20:06 62.2	18/11/2011 21:16 66.4	20/11/2011 10:26 63.9	20/11/2011 19:36 62.7	22/11/2011 20:46 66.0	24/11/2011 21:56 61.0
16/11/2011 20:11 62.5	18/11/2011 21:21 65.5	20/11/2011 10:31 63.6	20/11/2011 19:41 61.8	22/11/2011 20:51 65.5	24/11/2011 22:01 62.1
16/11/2011 20:16 62.3	18/11/2011 21:26 65.5	20/11/2011 10:36 64.1	20/11/2011 19:46 63.2	22/11/2011 20:56 65.3	24/11/2011 22:06 51.9
16/11/2011 20:21 63.4	18/11/2011 21:31 64.9	20/11/2011 10:41 64.7	20/11/2011 19:51 62.8	22/11/2011 21:01 64.9	24/11/2011 22:11 48.7
16/11/2011 20:26 62.6	18/11/2011 21:36 64.6	20/11/2011 10:46 63.7	20/11/2011 19:56 61.9	22/11/2011 21:06 63.3	24/11/2011 22:16 58.0
16/11/2011 20:31 62.1	18/11/2011 21:41 63.8	20/11/2011 10:51 63.1	20/11/2011 20:01 62.1	22/11/2011 21:11 63.0	24/11/2011 22:21 54.5
16/11/2011 20:36 63.1	18/11/2011 21:46 64.9	20/11/2011 10:56 63.4	20/11/2011 20:06 62.0	22/11/2011 21:16 62.6	24/11/2011 22:26 50.6
16/11/2011 20:41 62.8	18/11/2011 21:51 64.6	20/11/2011 11:01 63.8	20/11/2011 20:11 62.3	22/11/2011 21:21 63.5	24/11/2011 22:31 69.4
16/11/2011 20:46 63.3	18/11/2011 21:56 65.5	20/11/2011 11:06 64.0	20/11/2011 20:16 61.8	22/11/2011 21:26 62.9	24/11/2011 22:36 59.4
16/11/2011 20:51 62.3	18/11/2011 22:01 65.1	20/11/2011 11:11 63.8	20/11/2011 20:21 61.4	22/11/2011 21:31 62.4	24/11/2011 22:41 59.8
16/11/2011 20:56 62.0	18/11/2011 22:06 65.0	20/11/2011 11:16 62.7	20/11/2011 20:26 62.0	22/11/2011 21:36 62.2	24/11/2011 22:46 69.3
16/11/2011 21:01 62.4	18/11/2011 22:11 64.1	20/11/2011 11:21 66.1	20/11/2011 20:31 62.0	22/11/2011 21:41 61.8	24/11/2011 22:51 64.1
16/11/2011 21:06 63.4	18/11/2011 22:16 64.7	20/11/2011 11:26 66.9	20/11/2011 20:36 62.0	22/11/2011 21:46 61.9	24/11/2011 22:56 63.6
16/11/2011 21:11 63.0	18/11/2011 22:21 64.5	20/11/2011 11:31 65.7	20/11/2011 20:41 61.7	22/11/2011 21:51 62.1	25/11/2011 19:01 65.4
16/11/2011 21:16 61.6	18/11/2011 22:26 64.4	20/11/2011 11:36 66.5	20/11/2011 20:46 62.3	22/11/2011 21:56 62.6	25/11/2011 19:06 65.7
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16/11/2011 21:36 62.7	18/11/2011 22:46 64.0	20/11/2011 11:56 63.7	20/11/2011 21:06 61.5	22/11/2011 22:16 63.4	25/11/2011 19:26 65.2
16/11/2011 21:41 61.7	18/11/2011 22:51 64.1	20/11/2011 12:01 65.1	20/11/2011 21:11 61.8	22/11/2011 22:21 63.7	25/11/2011 19:31 65.0
16/11/2011 21:46 62.3	18/11/2011 22:56 64.3	20/11/2011 12:06 64.1	20/11/2011 21:16 62.9	22/11/2011 22:26 62.8	25/11/2011 19:36 65.0
16/11/2011 21:51 62.4	19/11/2011 19:01 66.4	20/11/2011 12:11 66.6	20/11/2011 21:21 61.9	22/11/2011 22:31 62.9	25/11/2011 19:41 63.9
16/11/2011 21:56 62.8	19/11/2011 19:06 66.7	20/11/2011 12:16 66.7	20/11/2011 21:26 62.1	22/11/2011 22:36 64.2	25/11/2011 19:46 63.1
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16/11/2011 22:06 63.2	19/11/2011 19:16 66.9	20/11/2011 12:26 63.9	20/11/2011 21:36 61.8	22/11/2011 22:46 63.6	25/11/2011 19:56 64.6
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16/11/2011 22:16 62.1	19/11/2011 19:26 67.7	20/11/2011 12:36 62.8	20/11/2011 21:46 61.6	22/11/2011 22:56 62.0	25/11/2011 20:06 62.9
16/11/2011 22:21 63.1	19/11/2011 19:31 67.7	20/11/2011 12:41 63.7	20/11/2011 21:51 62.1	23/11/2011 19:01 66.0	25/11/2011 20:11 62.2
16/11/2011 22:26 61.9	19/11/2011 19:36 67.0	20/11/2011 12:46 63.7	20/11/2011 21:56 61.9	23/11/2011 19:06 62.8	25/11/2011 20:16 61.9
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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27/11/2011 12:26 65.2	27/11/2011 21:36 61.9	28/10/2011 23:36 62.1	30/10/2011 0:46 59.9	31/10/2011 1:56 56.5	1/11/2011 3:06 56.7
27/11/2011 12:31 65.3	27/11/2011 21:41 62.4	28/10/2011 23:41 61.7	30/10/2011 0:51 60.5	31/10/2011 2:01 57.0	1/11/2011 3:11 57.0
27/11/2011 12:36 66.6	27/11/2011 21:46 61.6	28/10/2011 23:46 61.5	30/10/2011 0:56 59.8	31/10/2011 2:06 56.8	1/11/2011 3:16 57.7
27/11/2011 12:41 66.6	27/11/2011 21:51 61.5	28/10/2011 23:51 61.2	30/10/2011 1:01 60.2	31/10/2011 2:11 57.5	1/11/2011 3:21 57.4
27/11/2011 12:46 66.1	27/11/2011 21:56 62.8	28/10/2011 23:56 61.5	30/10/2011 1:06 59.7	31/10/2011 2:16 56.0	1/11/2011 3:26 57.0
27/11/2011 12:51 66.4	27/11/2011 22:01 61.8	29/10/2011 0:01 61.1	30/10/2011 1:11 59.9	31/10/2011 2:21 55.7	1/11/2011 3:31 56.7
27/11/2011 12:56 67.0	27/11/2011 22:06 63.4	29/10/2011 0:06 61.3	30/10/2011 1:16 59.0	31/10/2011 2:26 55.7	1/11/2011 3:36 56.1
27/11/2011 13:01 66.0	27/11/2011 22:11 61.8	29/10/2011 0:11 61.8	30/10/2011 1:21 59.3	31/10/2011 2:31 56.9	1/11/2011 3:41 55.7
27/11/2011 13:06 66.0	27/11/2011 22:16 61.5	29/10/2011 0:16 61.1	30/10/2011 1:26 60.0	31/10/2011 2:36 55.4	1/11/2011 3:46 57.7
27/11/2011 13:11 66.4	27/11/2011 22:21 61.9	29/10/2011 0:21 61.1	30/		

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

1/11/2011 6:31	61.6	2/11/2011 23:41	61.0	4/11/2011 0:51	59.0	5/11/2011 2:01	59.3	6/11/2011 3:11	57.3	7/11/2011 4:21	54.4
1/11/2011 6:36	62.4	2/11/2011 23:46	60.9	4/11/2011 0:56	59.1	5/11/2011 2:06	58.7	6/11/2011 3:16	57.3	7/11/2011 4:26	55.8
1/11/2011 6:41	62.5	2/11/2011 23:51	59.9	4/11/2011 1:01	58.9	5/11/2011 2:11	60.2	6/11/2011 3:21	56.4	7/11/2011 4:31	55.9
1/11/2011 6:46	62.9	2/11/2011 23:56	61.1	4/11/2011 1:06	59.4	5/11/2011 2:16	58.4	6/11/2011 3:26	57.8	7/11/2011 4:36	56.0
1/11/2011 6:51	62.8	3/11/2011 0:01	61.1	4/11/2011 1:11	58.9	5/11/2011 2:21	58.4	6/11/2011 3:31	57.9	7/11/2011 4:41	55.8
1/11/2011 6:56	63.8	3/11/2011 0:06	60.2	4/11/2011 1:16	58.0	5/11/2011 2:26	57.9	6/11/2011 3:36	57.7	7/11/2011 4:46	55.5
1/11/2011 23:01	61.4	3/11/2011 0:11	60.5	4/11/2011 1:21	58.8	5/11/2011 2:31	57.8	6/11/2011 3:41	57.9	7/11/2011 4:51	55.0
1/11/2011 23:06	60.8	3/11/2011 0:16	59.9	4/11/2011 1:26	58.8	5/11/2011 2:36	58.5	6/11/2011 3:46	57.6	7/11/2011 4:56	55.7
1/11/2011 23:11	61.6	3/11/2011 0:21	61.4	4/11/2011 1:31	57.6	5/11/2011 2:41	58.6	6/11/2011 3:51	56.6	7/11/2011 5:01	57.0
1/11/2011 23:16	60.6	3/11/2011 0:26	60.6	4/11/2011 1:36	58.7	5/11/2011 2:46	57.7	6/11/2011 3:56	57.2	7/11/2011 5:06	55.7
1/11/2011 23:21	61.5	3/11/2011 0:31	60.9	4/11/2011 1:41	57.6	5/11/2011 2:51	58.3	6/11/2011 4:01	57.0	7/11/2011 5:11	56.0
1/11/2011 23:26	61.1	3/11/2011 0:36	59.1	4/11/2011 1:46	58.4	5/11/2011 2:56	57.8	6/11/2011 4:06	57.4	7/11/2011 5:16	56.0
1/11/2011 23:31	61.9	3/11/2011 0:41	59.6	4/11/2011 1:51	57.8	5/11/2011 3:01	57.0	6/11/2011 4:11	57.0	7/11/2011 5:21	57.1
1/11/2011 23:36	61.6	3/11/2011 0:46	58.6	4/11/2011 1:56	58.1	5/11/2011 3:06	57.6	6/11/2011 4:16	56.8	7/11/2011 5:26	57.1
1/11/2011 23:41	61.7	3/11/2011 0:51	59.1	4/11/2011 2:01	57.7	5/11/2011 3:11	57.9	6/11/2011 4:21	57.5	7/11/2011 5:31	60.3
1/11/2011 23:46	60.8	3/11/2011 0:56	58.8	4/11/2011 2:06	57.3	5/11/2011 3:16	57.9	6/11/2011 4:26	58.6	7/11/2011 5:36	59.8
1/11/2011 23:51	60.9	3/11/2011 1:01	58.7	4/11/2011 2:11	57.3	5/11/2011 3:21	58.0	6/11/2011 4:31	58.8	7/11/2011 5:41	59.1
1/11/2011 23:56	60.4	3/11/2011 1:06	57.7	4/11/2011 2:16	56.6	5/11/2011 3:26	58.0	6/11/2011 4:36	57.2	7/11/2011 5:46	59.3
2/11/2011 0:01	61.0	3/11/2011 1:11	58.3	4/11/2011 2:21	56.6	5/11/2011 3:31	57.2	6/11/2011 4:41	57.9	7/11/2011 5:51	59.1
2/11/2011 0:06	59.8	3/11/2011 1:16	58.3	4/11/2011 2:26	56.3	5/11/2011 3:36	57.3	6/11/2011 4:46	58.5	7/11/2011 5:56	57.0
2/11/2011 0:11	60.5	3/11/2011 1:21	57.7	4/11/2011 2:31	57.2	5/11/2011 3:41	58.0	6/11/2011 4:51	58.2	7/11/2011 6:01	58.5
2/11/2011 0:16	60.5	3/11/2011 1:26	57.8	4/11/2011 2:36	56.2	5/11/2011 3:46	56.8	6/11/2011 4:56	58.0	7/11/2011 6:06	59.0
2/11/2011 0:21	59.9	3/11/2011 1:31	57.5	4/11/2011 2:41	56.0	5/11/2011 3:51	56.7	6/11/2011 5:01	58.4	7/11/2011 6:11	59.8
2/11/2011 0:26	60.5	3/11/2011 1:36	58.1	4/11/2011 2:46	56.1	5/11/2011 3:56	58.0	6/11/2011 5:06	57.0	7/11/2011 6:16	59.6
2/11/2011 0:31	60.3	3/11/2011 1:41	57.5	4/11/2011 2:51	56.9	5/11/2011 4:01	57.8	6/11/2011 5:11	57.2	7/11/2011 6:21	60.4
2/11/2011 0:36	59.4	3/11/2011 1:46	58.4	4/11/2011 2:56	56.2	5/11/2011 4:06	57.0	6/11/2011 5:16	56.9	7/11/2011 6:26	60.8
2/11/2011 0:41	58.9	3/11/2011 1:51	57.5	4/11/2011 3:01	55.3	5/11/2011 4:11	57.1	6/11/2011 5:21	57.9	7/11/2011 6:31	60.9
2/11/2011 0:46	59.4	3/11/2011 1:56	57.3	4/11/2011 3:06	56.9	5/11/2011 4:16	56.4	6/11/2011 5:26	57.4	7/11/2011 6:36	61.2
2/11/2011 0:51	58.7	3/11/2011 2:01	57.9	4/11/2011 3:11	57.1	5/11/2011 4:21	57.1	6/11/2011 5:31	57.9	7/11/2011 6:41	61.9
2/11/2011 0:56	58.1	3/11/2011 2:06	57.0	4/11/2011 3:16	56.4	5/11/2011 4:26	57.2	6/11/2011 5:36	57.2	7/11/2011 6:46	62.3
2/11/2011 1:01	58.2	3/11/2011 2:11	56.3	4/11/2011 3:21	57.1	5/11/2011 4:31	57.0	6/11/2011 5:41	59.4	7/11/2011 6:51	62.2
2/11/2011 1:06	58.7	3/11/2011 2:16	57.4	4/11/2011 3:26	55.0	5/11/2011 4:36	57.0	6/11/2011 5:46	58.3	7/11/2011 6:56	62.9
2/11/2011 1:11	58.1	3/11/2011 2:21	56.5	4/11/2011 3:31	55.9	5/11/2011 4:41	57.5	6/11/2011 5:51	58.1	7/11/2011 23:01	61.7
2/11/2011 1:16	58.3	3/11/2011 2:26	57.0	4/11/2011 3:36	55.7	5/11/2011 4:46	57.2	6/11/2011 5:56	57.4	7/11/2011 23:06	61.4
2/11/2011 1:21	57.4	3/11/2011 2:31	56.0	4/11/2011 3:41	55.4	5/11/2011 4:51	56.9	6/11/2011 6:01	58.5	7/11/2011 23:11	61.4
2/11/2011 1:26	58.1	3/11/2011 2:36	55.9	4/11/2011 3:46	56.1	5/11/2011 4:56	56.4	6/11/2011 6:06	58.8	7/11/2011 23:16	61.0
2/11/2011 1:31	57.9	3/11/2011 2:41	56.7	4/11/2011 3:51	55.0	5/11/2011 5:01	56.9	6/11/2011 6:11	58.9	7/11/2011 23:21	60.5
2/11/2011 1:36	57.5	3/11/2011 2:46	55.8	4/11/2011 3:56	56.5	5/11/2011 5:06	57.3	6/11/2011 6:16	59.0	7/11/2011 23:26	60.5
2/11/2011 1:41	57.8	3/11/2011 2:51	56.8	4/11/2011 4:01	54.3	5/11/2011 5:11	56.4	6/11/2011 6:21	60.3	7/11/2011 23:31	60.7
2/11/2011 1:46	57.3	3/11/2011 2:56	56.5	4/11/2011 4:06	56.3	5/11/2011 5:16	57.7	6/11/2011 6:26	61.1	7/11/2011 23:36	60.6
2/11/2011 1:51	57.8	3/11/2011 3:01	55.4	4/11/2011 4:11	55.5	5/11/2011 5:21	57.4	6/11/2011 6:31	59.4	7/11/2011 23:41	60.2
2/11/2011 1:56	56.5	3/11/2011 3:06	56.3	4/11/2011 4:16	56.5	5/11/2011 5:26	58.1	6/11/2011 6:36	59.9	7/11/2011 23:46	60.1
2/11/2011 2:01	57.7	3/11/2011 3:11	55.9	4/11/2011 4:21	55.5	5/11/2011 5:31	57.9	6/11/2011 6:41	61.7	7/11/2011 23:51	60.1
2/11/2011 2:06	57.0	3/11/2011 3:16	57.0	4/11/2011 4:26	55.2	5/11/2011 5:36	57.1	6/11/2011 6:46	60.2	7/11/2011 23:56	59.6
2/11/2011 2:11	56.4	3/11/2011 3:21	55.6	4/11/2011 4:31	55.5	5/11/2011 5:41	59.0	6/11/2011 6:51	62.0	8/11/2011 0:01	60.0
2/11/2011 2:16	56.5	3/11/2011 3:26	56.3	4/11/2011 4:36	55.5	5/11/2011 5:46	58.7	6/11/2011 6:56	61.7	8/11/2011 0:06	59.9
2/11/2011 2:21	56.6	3/11/2011 3:31	55.0	4/11/2011 4:41	56.4	5/11/2011 5:51	58.8	6/11/2011 23:01	61.6	8/11/2011 0:11	60.9
2/11/2011 2:26	56.5	3/11/2011 3:36	55.6	4/11/2011 4:46	54.5	5/11/2011 5:56	59.0	6/11/2011 23:06	62.2	8/11/2011 0:16	60.2
2/11/2011 2:31	56.4	3/11/2011 3:41	58.7	4/11/2011 4:51	55.5	5/11/2011 6:01	58.3	6/11/2011 23:11	61.7	8/11/2011 0:21	60.2
2/11/2011 2:36	55.9	3/11/2011 3:46	55.9	4/11/2011 4:56	55.2	5/11/2011 6:06	59.0	6/11/2011 23:16	61.9	8/11/2011 0:26	59.8
2/11/2011 2:41	57.0	3/11/2011 3:51	56.9	4/11/2011 5:01	55.9	5/11/2011 6:11	59.4	6/11/2011 23:21	60.7	8/11/2011 0:31	59.2
2/11/2011 2:46	57.1	3/11/2011 3:56	62.6	4/11/2011 5:06	56.4	5/11/2011 6:16	60.3	6/11/2011 23:26	61.1	8/11/2011 0:36	58.6
2/11/2011 2:51	56.8	3/11/2011 4:01	54.8	4/11/2011 5:11	57.7	5/11/2011 6:21	60.9	6/11/2011 23:31	60.4	8/11/2011 0:41	59.0
2/11/2011 2:56	55.8	3/11/2011 4:06	56.1	4/11/2011 5:16	57.2	5/11/2011 6:26	61.5	6/11/2011 23:36	60.4	8/11/2011 0:46	58.6
2/11/2011 3:01	56.3	3/11/2011 4:11	59.2	4/11/2011 5:21	57.1	5/11/2011 6:31	62.7	6/11/2011 23:41	60.7	8/11/2011 0:51	58.4
2/11/2011 3:06	55.2	3/11/2011 4:16	55.3	4/11/2011 5:26	56.7	5/11/2011 6:36	63.5	6/11/2011 23:46	60.6	8/11/2011 0:56	58.0
2/11/2011 3:11	55.6	3/11/2011 4:21	55.3	4/11/2011 5:31	56.6	5/11/2011 6:41	63.9	6/11/2011 23:51	59.6	8/11/2011 1:01	57.6
2/11/2011 3:16	55.7	3/11/2011 4:26	54.5	4/11/2011 5:36	57.7	5/11/2011 6:46	63.2	6/11/2011 23:56	60.5	8/11/2011 1:06	58.3
2/11/2011 3:21	55.9	3/11/2011 4:31	55.4	4/11/2011 5:41	58.3	5/11/2011 6:51	63.4	7/11/2011 0:01	60.1	8/11/2011 1:11	57.2
2/11/2011 3:26	56.0	3/11/2011 4:36	55.8	4/11/2011 5:46	58.5	5/11/2011 6:56	64.0	7/11/2011 0:06	60.3	8/11/2011 1:16	58.1
2/11/2011 3:31	55.5	3/11/2011 4:41	54.9	4/11/2011 5:51	58.9	5/11/2011 23:01	60.8	7/11/2011 0:11	59.7	8/11/2011 1:21	58.0
2/11/2011 3:36	55.3	3/11/2011 4:46	55.9	4/11/2011 5:56	56.7	5/11/2011 23:06	61.6	7/11/2011 0:16	60.3	8/11/2011 1:26	57.8
2/11/2011 3:41	56.0	3/11/2011 4:51	55.7	4/11/2011 6:01	59.4	5/11/2011 23:11	61.7	7/11/2011 0:21	60.2	8/11/2011 1:31	57.0
2/11/2011 3:46	55.1	3/11/2011 4:56	55.2	4/11/2011 6:06	59.4	5/11/2011 23:16	61.0	7/11/2011 0:26	60.1	8/11/2011 1:36	57.2
2/11/2011 3:51	56.3	3/11/2011 5:01	54.7	4/11/2011 6:11	59.4	5/11/2011 23:21	61.7	7/11/2011 0:31	59.1	8/11/2011 1:41	58.1
2/11/2011 3:56	56.7	3/11/2011 5:06	56.1	4/11/2011 6:16	60.1	5/11/2011 23:26	61.2	7/11/2011 0:36	58.6	8/11/2011 1:46	57.6
2/11/2011 4:01	56.4	3/11/2011 5:11	56.2	4/11/2011 6:21	60.5	5/11/2011 23:31	60.8	7/11/2011 0:41	58.8	8/11/2011 1:51	57.8
2/11/2011 4:06	56.7	3/11/2011 5:16	57.5	4/11/2011 6:26	60.8	5/11/2011 23:36	61.4	7/11/2011 0:46	58.7	8/11/2011 1:56	57.6
2/11/2011 4:11	56.6	3/11/2011 5:21	56.6	4/11/2011 6:31	60.8	5/11/2011 23:41	61.1	7/11/2011 0:51	58.2	8/11/2011 2:01	57.4
2/11/2011 4:16	55.9	3/11/2011 5:26	56.4	4/11/2011 6:36	61.0	5/11/2011 23:46	61.3	7/11/2011 0:56	57.7	8/11/2011 2:06	56.4
2/11/2011 4:21	56.3	3/11/2011 5:31	58.8	4/11/2011 6:41	61.7	5/11/2011 23:51	61.0	7/11/2011 1:01			

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

8/11/2011 5:31	59.5	9/11/2011 6:41	65.8	10/11/2011 23:51	61.6	12/11/2011 1:01	60.3	13/11/2011 2:11	59.0	14/11/2011 3:21	55.3
8/11/2011 5:36	58.4	9/11/2011 6:46	66.1	10/11/2011 23:56	61.9	12/11/2011 1:06	60.4	13/11/2011 2:16	58.8	14/11/2011 3:26	56.1
8/11/2011 5:41	59.9	9/11/2011 6:51	65.9	11/11/2011 0:01	62.3	12/11/2011 1:11	60.1	13/11/2011 2:21	58.6	14/11/2011 3:31	56.3
8/11/2011 5:46	60.9	9/11/2011 6:56	65.9	11/11/2011 0:06	62.0	12/11/2011 1:16	60.9	13/11/2011 2:26	59.0	14/11/2011 3:36	55.5
8/11/2011 5:51	61.1	9/11/2011 23:01	62.5	11/11/2011 0:11	61.7	12/11/2011 1:21	60.5	13/11/2011 2:31	58.7	14/11/2011 3:41	55.7
8/11/2011 5:56	60.7	9/11/2011 23:06	62.4	11/11/2011 0:16	61.6	12/11/2011 1:26	61.3	13/11/2011 2:36	58.9	14/11/2011 3:46	55.7
8/11/2011 6:01	60.8	9/11/2011 23:11	63.0	11/11/2011 0:21	61.7	12/11/2011 1:31	60.2	13/11/2011 2:41	58.2	14/11/2011 3:51	54.7
8/11/2011 6:06	60.9	9/11/2011 23:16	62.6	11/11/2011 0:26	61.4	12/11/2011 1:36	60.1	13/11/2011 2:46	58.0	14/11/2011 3:56	54.9
8/11/2011 6:11	61.3	9/11/2011 23:21	62.5	11/11/2011 0:31	61.2	12/11/2011 1:41	60.8	13/11/2011 2:51	60.0	14/11/2011 4:01	56.8
8/11/2011 6:16	61.7	9/11/2011 23:26	62.5	11/11/2011 0:36	60.4	12/11/2011 1:46	60.9	13/11/2011 2:56	58.9	14/11/2011 4:06	56.0
8/11/2011 6:21	61.8	9/11/2011 23:31	62.5	11/11/2011 0:41	61.5	12/11/2011 1:51	59.9	13/11/2011 3:01	58.2	14/11/2011 4:11	55.4
8/11/2011 6:26	62.7	9/11/2011 23:36	62.5	11/11/2011 0:46	60.7	12/11/2011 1:56	61.4	13/11/2011 3:06	58.5	14/11/2011 4:16	55.0
8/11/2011 6:31	63.3	9/11/2011 23:41	62.1	11/11/2011 0:51	60.1	12/11/2011 2:01	61.4	13/11/2011 3:11	59.1	14/11/2011 4:21	55.6
8/11/2011 6:36	62.6	9/11/2011 23:46	62.1	11/11/2011 0:56	60.5	12/11/2011 2:06	60.3	13/11/2011 3:16	58.9	14/11/2011 4:26	55.5
8/11/2011 6:41	64.4	9/11/2011 23:51	62.3	11/11/2011 1:01	60.3	12/11/2011 2:11	59.3	13/11/2011 3:21	58.6	14/11/2011 4:31	55.8
8/11/2011 6:46	64.0	9/11/2011 23:56	62.2	11/11/2011 1:06	60.0	12/11/2011 2:16	58.9	13/11/2011 3:26	58.5	14/11/2011 4:36	54.2
8/11/2011 6:51	64.2	10/11/2011 0:01	62.3	11/11/2011 1:11	58.8	12/11/2011 2:21	59.4	13/11/2011 3:31	59.0	14/11/2011 4:41	54.6
8/11/2011 6:56	64.0	10/11/2011 0:06	61.9	11/11/2011 1:16	59.6	12/11/2011 2:26	59.9	13/11/2011 3:36	57.7	14/11/2011 4:46	55.6
8/11/2011 23:01	63.1	10/11/2011 0:11	61.5	11/11/2011 1:21	60.2	12/11/2011 2:31	59.6	13/11/2011 3:41	58.5	14/11/2011 4:51	56.3
8/11/2011 23:06	63.2	10/11/2011 0:16	63.3	11/11/2011 1:26	59.9	12/11/2011 2:36	59.5	13/11/2011 3:46	57.5	14/11/2011 4:56	58.2
8/11/2011 23:11	62.5	10/11/2011 0:21	61.7	11/11/2011 1:31	59.6	12/11/2011 2:41	59.6	13/11/2011 3:51	58.4	14/11/2011 5:01	57.4
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8/11/2011 23:21	62.6	10/11/2011 0:31	61.8	11/11/2011 1:41	59.5	12/11/2011 2:51	59.1	13/11/2011 4:01	57.7	14/11/2011 5:11	56.7
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

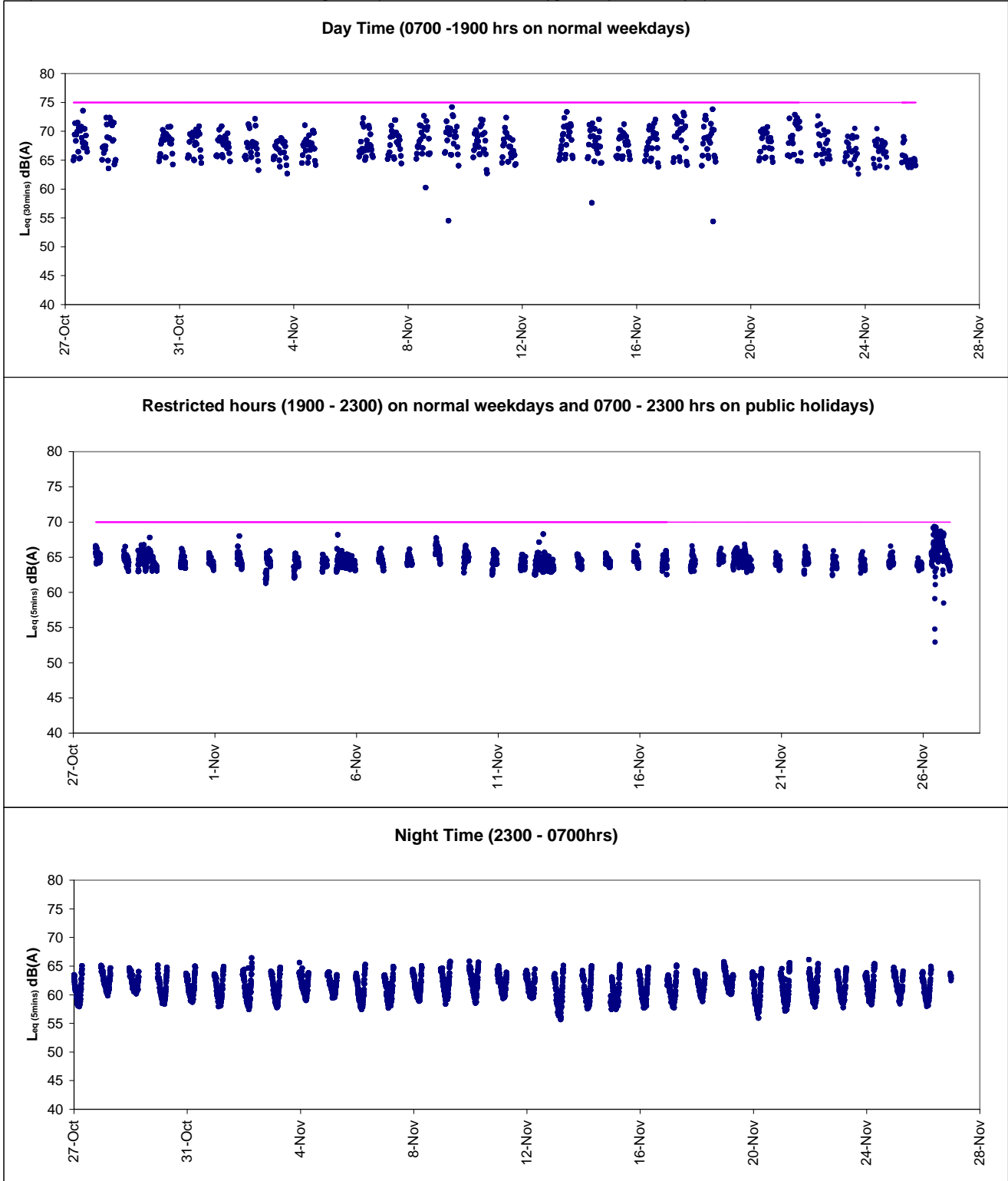
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16/11/2011 1:01	59.4	17/11/2011 2:11	56.4	18/11/2011 3:21	58.7	19/11/2011 4:31	59.8	20/11/2011 5:41	62.4	21/11/2011 6:51	63.4
16/11/2011 1:06	59.0	17/11/2011 2:16	56.7	18/11/2011 3:26	59.2	19/11/2011 4:36	58.5	20/11/2011 5:46	59.2	21/11/2011 6:56	63.6
16/11/2011 1:11	58.1	17/11/2011 2:21	56.6	18/11/2011 3:31	58.8	19/11/2011 4:41	58.4	20/11/2011 5:51	59.9	21/11/2011 23:01	62.0
16/11/2011 1:16	59.2	17/11/2011 2:26	55.7	18/11/2011 3:36	58.2	19/11/2011 4:46	58.7	20/11/2011 5:56	59.7	21/11/2011 23:06	62.3
16/11/2011 1:21	58.3	17/11/2011 2:31	56.8	18/11/2011 3:41	59.1	19/11/2011 4:51	59.3	20/11/2011 6:01	59.7	21/11/2011 23:11	62.8
16/11/2011 1:26	58.7	17/11/2011 2:36	55.8	18/11/2011 3:46	57.3	19/11/2011 4:56	57.8	20/11/2011 6:06	59.4	21/11/2011 23:16	61.6
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16/11/2011 1:36	57.6	17/11/2011 2:46	56.1	18/11/2011 3:56	58.0	19/11/2011 5:06	60.1	20/11/2011 6:16	60.5	21/11/2011 23:26	61.5
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16/11/2011 1:46	58.0	17/11/2011 2:56	55.6	18/11/2011 4:06	58.4	19/11/2011 5:16	59.2	20/11/2011 6:26	61.0	21/11/2011 23:36	61.9
16/11/2011 1:51	58.1	17/11/2011 3:01	55.9	18/11/2011 4:11	57.5	19/11/2011 5:21	59.2	20/11/2011 6:31	60.4	21/11/2011 23:41	60.9
16/11/2011 1:56	58.1	17/11/2011 3:06	54.7	18/11/2011 4:16	57.1	19/11/2011 5:26	59.4	20/11/2011 6:36	60.2	21/11/2011 23:46	61.1
16/11/2011 2:01	57.8	17/11/2011 3:11	55.1	18/11/2011 4:21	57.7	19/11/2011 5:31	60.7	20/11/2011 6:41	61.2	21/11/2011 23:51	61.4
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

22/11/2011 3:31	55.8	23/11/2011 4:41	57.1	24/11/2011 5:51	61.7	25/11/2011 23:01	62.0	27/11/2011 0:11	61.0
22/11/2011 3:36	55.8	23/11/2011 4:46	55.9	24/11/2011 5:56	60.9	25/11/2011 23:06	62.0	27/11/2011 0:16	60.9
22/11/2011 3:41	55.8	23/11/2011 4:51	56.1	24/11/2011 6:01	58.9	25/11/2011 23:11	62.0	27/11/2011 0:21	59.5
22/11/2011 3:46	56.8	23/11/2011 4:56	56.2	24/11/2011 6:06	60.3	25/11/2011 23:16	62.0	27/11/2011 0:26	60.7
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22/11/2011 3:56	56.4	23/11/2011 5:06	56.1	24/11/2011 6:16	60.1	25/11/2011 23:26	60.9	27/11/2011 0:36	59.6
22/11/2011 4:01	55.9	23/11/2011 5:11	56.7	24/11/2011 6:21	60.0	25/11/2011 23:31	61.5	27/11/2011 0:41	59.5
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22/11/2011 4:41	56.5	23/11/2011 5:51	59.1	24/11/2011 23:01	70.1	26/11/2011 0:11	60.8	27/11/2011 1:21	58.2
22/11/2011 4:46	56.2	23/11/2011 5:56	57.7	24/11/2011 23:06	70.0	26/11/2011 0:16	60.4	27/11/2011 1:26	57.6
22/11/2011 4:51	56.1	23/11/2011 6:01	58.8	24/11/2011 23:11	69.5	26/11/2011 0:21	60.7	27/11/2011 1:31	57.9
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23/11/2011 0:41	59.1	24/11/2011 1:51	59.0	25/11/2011 3:01	61.8	26/11/2011 4:11	57.0	27/11/2011 5:21	56.7
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23/11/2011 2:11	57.1	24/11/2011 3:21	57.5	25/11/2011 4:31	57.6	26/11/2011 5:41	56.2	27/11/2011 6:51	62.3
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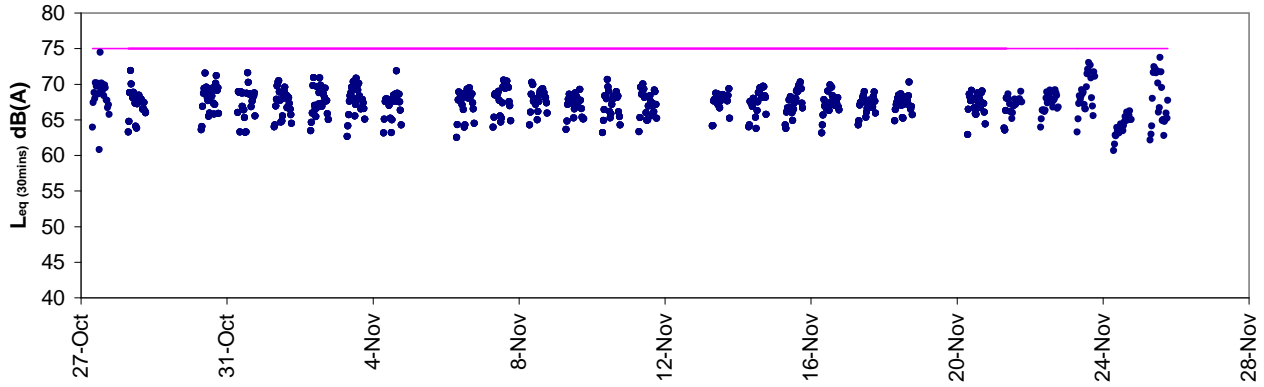
Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)



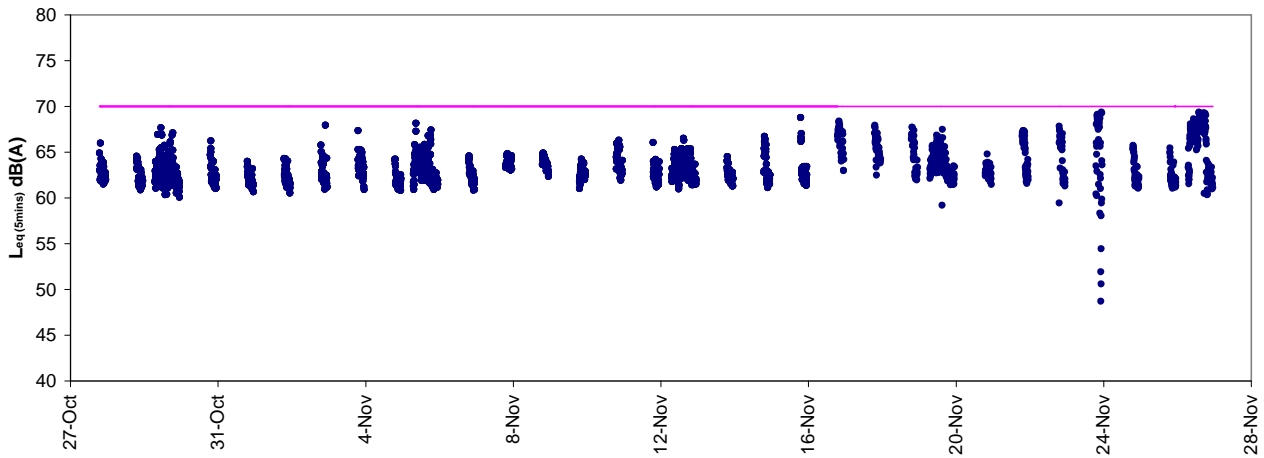


Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Centre)

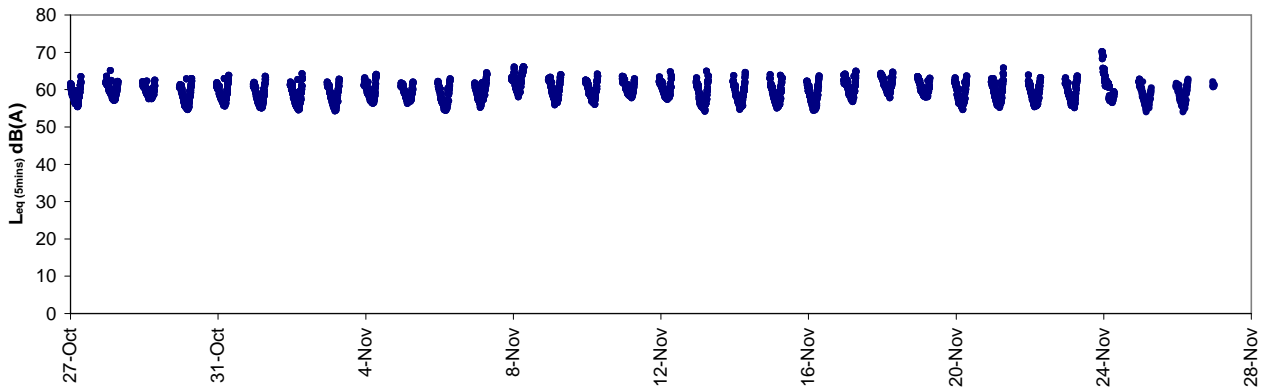
Day Time (0700 -1900 hrs on normal weekdays)



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



Night Time (2300 - 0700hrs)





***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"><li>1. Notify ER, IEC and Contractor;</li><li>2. Carry out investigation;</li><li>3. Report the results of investigation to the IEC, ER and Contractor;</li><li>4. Discuss with the IEC and Contractor on remedial measures required;</li><li>5. Increase monitoring frequency to check mitigation effectiveness.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Review the investigation results submitted by the ET;</li><li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li><li>3. Advise the ER on the effectiveness of the proposed remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Confirm receipt of notification of failure in writing;</li><li>2. Notify Contractor;</li><li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li><li>4. Supervise the implementation of remedial measures.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"><li>1. Submit noise mitigation proposals to IEC and ER;</li><li>2. Implement noise mitigation proposals.</li></ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



**Event / Action Plan for Construction Air Quality**

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





***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_10N073	31-Oct-11	15:00	M6 - HK baptist Church henrietta Secondary School	73	Leq(30-min)	when one documented complaint was received.	70	<p><b>Possible reason:</b> Vibratory hammer was operated during monitoring</p> <p><b>Action taken / to be taken:</b> Immediate repeated measurements had conducted to confirm the exceedance.</p> <p>The noise levels of the same location as below:  31 Oct 2011 15:30 73 dB (A)  Investigation found that the repeat measurement was exceeded the limit level of construction noise criteria 70dB (A).</p> <p>Notification of exceedance was immediate informed to Contractor of HY/2009/19, RE and IEC when the exceedances were recorded.</p> <p>During the noise monitoring on 31 Oct 2011, temporary piling for construction of working platform for marine bored piling work by vibratory hammer was observed through out the period of noise monitoring. In addition, the vibratory hammer was observed operating above the road level of IECL. Contractor had suspended the work after received the notification on the same day to review the plant operation.</p> <p>Contractor was advised to decrease the frequency of vibratory hammer operation to reduce the noise level.</p> <p>Additional monitoring was conducted on 3 Nov 2011 at 15:00. Temporary piling work conducted by vibratory hammer with a lower frequency was 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:  3 Nov 2011 15:00 70 dB (A)</p> <p>Exceedance caused by the noise from vibratory hammer for temporary work platforms construction during monitoring. Since erection of noise barrier is not practicable on IECL, therefore, the contractor was reminded to control the frequency of the hammer during operation.</p> <p><b>Remarks / Other Obs:</b> The limit level exceedance was related to high frequency of vibratory hammer.</p>



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N074	31-Oct-11	21:31	M1a - Harbour Road Sports Centre	71	Leq(5-min)	when one documented complaint	70	<p><b>Possible reason:</b> Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.</p> <p><b>Action taken / to be taken:</b> 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><b>Remarks / Other Obs:</b> 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>
X_10N075	8-Nov-11	20:35	M1a - Harbour Road Sports Centre	76	Leq(5-min)	when one documented complaint	70	<p><b>Possible reason:</b> Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.</p> <p><b>Action taken / to be taken:</b> 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><b>Remarks / Other Obs:</b> 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_10N076	15-Nov-11	8:56	M7e - IFC-Eastern End of Prodiom	78	Leq(30-min)	when one documented complaint was received.	75	<p><b>Possible reason:</b> Drilling by drill rig and breaking works for D-wall construction in front of IFC were conducted during monitoring</p> <p><b>Action taken / to be taken:</b> Immediate repeated measurements had conducted to confirm the exceedance.</p> <p>The noise levels of repeat-measurement at the same location as below: 15 November 2011 09:38 76 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 15 November 2011, drilling by drill rig and breaking works for D-wall construction in front of IFC without noise barrier and no abnormal work were observed through out the period of noise monitoring. 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 noise barriers as far as practicable for the drilling and breaking works.</p> <p>Additional monitoring was conducted on 18 November 2011 at 11:30. Drill rig and breaker operated at the concern area with fully erected moveable noise barrier, drilling by drill rig and breaking works for D-wall construction were observed during noise monitoring. No further exceedance was recorded after the mitigation measures were implemented. The noise levels of the same location as below: 18 November 2011 at 11:30 75 dB (A)</p> <p>Exceedance caused by drilling and breaking works in which it was conducted near the monitoring station and noise barriers were not erected during excavation works during the monitoring. The noise level recorded at 11:30 on 18 November 2011 reduced to within the limit level when the works were conducted with fully erected noise barriers. The contractor was reminded to provide and erect noise barriers for all noisy operations.</p> <p><b>Remarks / Other Obs:</b> The limit level exceedance was due to drilling and breaking works with no noise barrier. The effectiveness of the mitigation measures adopted would be closely monitored in coming scheduled noise monitoring dates to prevent further occurrence of exceedance</p>



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N077	15-Nov-11	19:21	M1a - Harbour Road Sports Centre	72	Leq(5-min)	when one documented complaint was received.	70	<p><b>Possible reason:</b> Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.</p> <p><b>Action taken / to be taken:</b> 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><b>Remarks / Other Obs:</b> Construction work for Contract no. HK/2009/02 was complied with the conditions under valid Construction Noise Permit no. GWR50983-11 during the measurement; It is concluded that the exceedance was not due to the Project.</p>
X_10N078	21-Nov-11	21:08	M2b - Noon day gun	73	Leq(5-min)	when one documented complaint	70	<p><b>Possible reason:</b> Traffic noise from Victoria Park Road contributed as a noise source during monitoring.</p> <p><b>Action taken / to be taken:</b> Analysis of contractor's working procedure and plant group used.</p> <p><b>Remarks / Other Obs:</b> The rectification work for Contract no. HY/2009/15 was complied with the conditions under valid Construction Noise Permit no. GW-RS1021-11 during the measurement. It was considered the exceedance was not project related.</p>
X_10N079	21-Nov-11	20:39	M1a - Harbour Road Sports Centre	74	Leq(5-min)	when one documented complaint was received.	70	<p><b>Possible reason:</b> Noisy traffic noise from Tonnochy Road and noise from training activities at swimming pool were contributed in the noise monitoring.</p> <p><b>Action taken / to be taken:</b> 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><b>Remarks / Other Obs:</b> 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>
X_10N080	21-Nov-11	19:10	M7e - IFC-Eastern End of Prodiun	72	Leq(5-min)	when one documented complaint was received.	70	<p><b>Possible reason:</b> Traffic noise from Finance Street contributed as a noise source during monitoring.</p> <p><b>Action taken / to be taken:</b> Analysis of contractor's working procedure and plant group used.</p> <p><b>Remarks / Other Obs:</b> The construction work for Contract no. HY/2009/18 was complied with the conditions under valid Construction Noise Permit no. GW-RS0993-11 during the measurement. It was considered the exceedance was not project related.</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.	Closed
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.	
110826A	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 IECon 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	Closed



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
111104	04/11/2011	Mr. Liu from	Wan Chai	Complain about a tree near the	1) ET confirmed with the Resident Site Staff that	Waiting RSS



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		LCSD complained via Contractor Complaint Hotline		site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	<ul style="list-style-type: none"> <li>• A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled.</li> <li>• Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate.</li> </ul> <p>2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.</p>	respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	<p>1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no CNP was checked by the police officer.</p> <p>2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.</p> <p>3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and</p>	Keep in view



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					<p>bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.</p> <p>4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour</p> <p>5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.</p>	



***Appendix 10.1***

*Construction Programme of Individual Contracts*

Activity Name	Original Duration	Planned Start	Planned Finish	2011				2012				2013				2014				2015				2016	
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>HY/2009/15 - CWB TUNNEL (CBTS SECTION)</b>																									
<b>SUBMISSIONS COMPLYING WITH EPs</b>																									
EM&A Manual (rely on the Master EP's submission EP-364/2009/A Condition 2.6)																									
Baseline Monitoring Report (rely on the Master EP's submission EP-364/2009/A 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)																									
Work Schedule (FEP Condition 2.7)	1d	02-Oct-10	02-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																						
<b>EAST VENTILATION ADIT</b>																									
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 Confirming Design	323d	15-Feb-12	02-Jan-13																						
<b>TGBR1E (TST Area)</b>																									
Diaphragm Wall Construction (incl. SI, & tests after completion)	107d	26-Apr-11	10-Aug-11																						
Excavation & Lateral Support, ELS	86d	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																						
<b>TGBR2-TGBR3 (TSA Area)</b>																									
Diaphragm Wall Construction	118d	05-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																						
<b>TGBR4W (TSA Area)</b>																									
Diaphragm Wall Construction	148d	28-Jun-11	22-Nov-11																						
Excavation & Lateral Support, ELS	319d	26-Jun-11	11-May-12																						
Landing Steps - Demolition/Reconstruct as footpath	40d	29-Jun-11	23-Aug-11																						

Prepared by William Calauz

Date	14-Mar-11	Revision	Revision C	Checked	Approved
	File: 0001a		(Layout: HY/2009/15: CWB - Summary)	ST	JL

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

1 of 2

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

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











Activity ID	Activity Name	Rem Dur	Start	Finish	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011	2011		
					22	23	24	25	26	27	28	29	30	31	01	02	03	04	05	
					September	September	September	September	September	September	September	September	September	September	September	September	September	September	September	
					October	October	October	October	October	October	October	October	October	October	October	October	October	October	October	
					November	November	November	November	November	November	November	November	November	November	November	November	November	November	November	
					December	December	December	December	December	December	December	December	December	December	December	December	December	December	December	
<b>3MRP - Sep 2011 to Dec 2011</b>																				
<b>01 - CONTRACT DATES</b>																				
01.1 - Conditions																				
010-1100	PMI for Section 1 of the Works	0		01-Dec-11																
<b>01.2 - Possession of Site</b>																				
0120-1500	Possession to Portion XI	0	05-Oct-11*																	
0120-1600	Possession to Portion IA	0	10-Nov-11*																	
0120-1700	Possession to Portion IB	0	10-Nov-11*																	
0120-1800	Possession to Portion IC	0	10-Nov-11*																	
0120-1900	Possession to Portion ID	0	10-Nov-11*																	
0120-2000	Possession to Portion X	0	10-Nov-11*																	
0120-2100	Possession to Portion III	0	31-Dec-11*																	
0120-2200	Possession to Portion VA	0	31-Dec-11*																	
0120-2300	Possession to Portion VB	0	31-Dec-11*																	
0120-2400	Possession to Portion VC	0	31-Dec-11*																	
0120-2500	Possession to Portion VD	0	31-Dec-11*																	
<b>01.5 - Period of Site Possession for each Portion</b>																				
0150-1000	Site possession Period Portion VI	2075	20-Jan-11 A	25-May-17																
0150-1100	Site Possession Period Portion VIIA	2075	04-Aug-11 A	25-May-17																
0150-1200	Site Possession Period Portion VIIB	883	04-Aug-11 A	18-Feb-14																
0150-1300	Site Possession Period Portion VIIC	1282	04-Aug-11 A	04-Mar-15																
0150-1400	Site Possession Period Portion VIID	883	04-Aug-11 A	18-Feb-14																
0150-1500	Site Possession Period Portion XI	681	05-Oct-11	15-Aug-13																
0150-1600	Site Possession Period Portion IA	2024	10-Nov-11	25-May-17																
0150-1700	Site Possession Period Portion IB	822	10-Nov-11	18-Feb-14																
0150-1800	Site Possession Period Portion IC	1211	10-Nov-11	04-Mar-15																
0150-1900	Site Possession Period Portion ID	832	10-Nov-11	18-Feb-14																
0150-2000	Site Possession Period Portion X	2024	10-Nov-11	25-May-17																
0150-2100	Site Possession Period Portion III	1973	31-Dec-11	25-May-17																
0150-2200	Site Possession Period Portion VA	1973	31-Dec-11	25-May-17																
0150-2300	Site Possession Period Portion VB	927	31-Dec-11	14-Jul-14																
0150-2400	Site Possession Period Portion VC	1973	31-Dec-11	25-May-17																
0150-2500	Site Possession Period Portion VD	1314	31-Dec-11	05-Aug-15																
<b>02 - PRE-CONSTRUCTION WORKS</b>																				
<b>02.1 - Permit &amp; Licence Application</b>																				
0210-1300	Apply for XP from HYD	12	21-Mar-11 A	01-Oct-11																
0210-1400	XP issued by HYD	0		01-Oct-11																
0210-1500	Dumping Permit from CEDD	36	10-Mar-11 A	25-Oct-11																
<b>02.2 - Contractor's Submission</b>																				
0220-1160	Detailed Works Programme - Approval from ER	0	30-Jul-11 A	25-Aug-11 A																
0220-1190	Revise Temp. Drainage Management Plan	7	10-Aug-11 A	26-Sep-11																
0220-1200	Temp. Drainage Management Plan - Approval from ER	14	10-Sep-11 A	07-Oct-11																
0220-1260	Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval	18	04-Aug-11 A	10-Oct-11																
0220-1280	Drainage Pipes & Materials - Submission	25	15-Sep-11 A	14-Oct-11																

**Contract HY/2009/19**  
**Three Month Rolling Programme (21 SEP - 20 DEC 2011)**  
 3MRP - Sep 2011 to Dec 2011  
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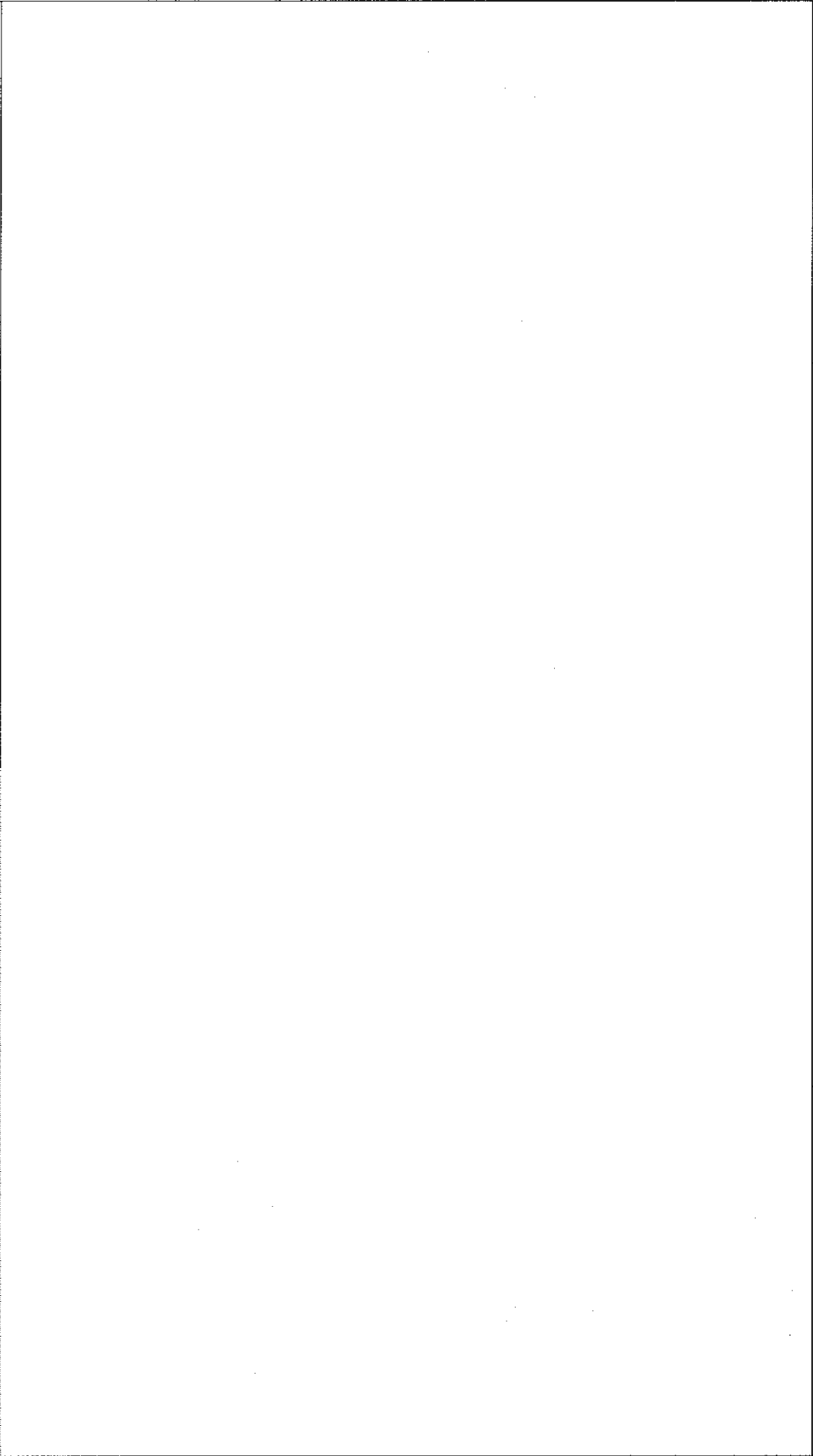








Activity ID	Activity Name	Rem. Dur.	Start	Finish	2011																	
14-SECTION 14 OF THE WORKS					22	29	05	12	19	26	03	10	17	24	31	07	14	21	28	05	12	19
14.1 - Soft Landscape																						
14.10-1000	Transplant of ex. Trees to Nursery & upkeep	1515	31-Dec-11	17-Jan-17																		



**Contract HY/2009/19**

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

3MRP  
 3MRP - Sep 2011 to Dec 2011  
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Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East Contract HK/2009/02

CHUN WO - CRGL JV

Activity ID	Activity Name	Start	Finish	%
S98-T1-0005	Tunnel portion 1 Prefill & guide wall	10/18-Feb-11	13-Apr-11	40%
S98-T1-0007	Tunnel Portion 1 Bored Piling works	10/18-Feb-11	08-Aug-11	0%
S98-T1-0010	Tunnel portion 1 diaphragm wall works	10/26-Apr-11	27-Aug-11	0%
S98-T1-0015	Tunnel portion 1 Pump Test and demobilization of SWS equipments	26/20-Aug-11	30-Sep-11	0%
S98-T1-0020	Tunnel portion 1 ELSW excavation	130/03-Oct-11	07-Nov-12	0%
S98-T1-0030	Tunnel portion 1 structure construction	100/09-Mar-12	08-Jul-12	0%
S98-T1-0040	Tunnel portion 1 backfilling and ELSW removal	54/10-Jul-12	10-Sep-12	0%
<b>Tunnel Portion 2</b>				
S98-T2-0005	Tunnel portion 2 Prefill & guide wall	10/02-Aug-12	19-Aug-12	0%
S98-T2-0010	Tunnel portion 2 diaphragm wall and bored pile works	10/14-Aug-12	10-Dec-12	0%
S98-T2-0015	Tunnel portion 2 Pump Test	14/03-Dec-12	18-Dec-12	0%
S98-T2-0020	Tunnel portion 2 ELSW excavation	80/11-Dec-12	19-Mar-13	0%
S98-T2-0030	Tunnel portion 2 structure construction	100/20-Mar-13	22-Jul-13	0%
S98-T2-0040	Tunnel portion 2 backfilling and ELSW removal	80/23-Jul-13	25-Oct-13	0%
<b>Tunnel Portion 3</b>				
S98-T3-0005	HCC Slurry diversion at Wan Shing Street Completed	01/01-Apr-12		0%
S98-T3-0008	Tunnel portion 3 Prefill & guide wall	20/02-Oct-12	25-Oct-12	0%
S98-T3-0010	Remaining diaphragm wall, bored piles and temporary pipe pile wall at tunnel portion 3	50/25-Oct-12	22-Dec-12	0%
S98-T3-0015	Tunnel portion 3 Pump Test	30/15-Dec-12	22-Jan-13	0%
S98-T3-0020	Tunnel portion 3 ELSW excavation	30/15-Jan-13	20-Feb-13	0%
S98-T3-0030	Tunnel portion 3 structure construction	60/21-Feb-13	08-May-13	0%
S98-T3-0040	Tunnel portion 3 backfilling and ELSW removal	30/07-May-13	11-Jun-13	0%
<b>Tunnel Portion 4</b>				
S98-T4-0005	Tunnel portion 4 Prefill & guide wall for section not at approach ramp	21/30-Aug-12	22-Sep-12	0%
S98-T4-0010	Diaphragm wall and bored pile for steel bridge no.1 above tunnel portion 4	40/24-Sep-12	10-Nov-12	0%
S98-T4-0020	Diaphragm wall & bored pile works at tunnel portion 4 (section not at approach ramp)	420/11-Sep-12	05-Feb-14	0%
S98-T4-0030	Tunnel portion 4 Prefill & guide wall for section at approach ramp	5/23-Dec-13	30-Dec-13	0%
S98-T4-0035	Diaphragm wall works for remaining area of tunnel portion 4 (for section at approach ramp)	30/31-Dec-13	06-Feb-14	0%
S98-T4-0040	Tunnel portion 4 Pump Test	14/28-Jan-14	14-Feb-14	0%
S98-T4-0050	Tunnel portion 4 ELSW excavation	60/07-Feb-14	19-Apr-14	0%
S98-T4-0060	Tunnel portion 4 structure construction	110/22-Apr-14	01-Sep-14	0%
S98-T4-0070	Tunnel portion 4 backfilling and ELSW removal	60/03-Sep-14	13-Nov-14	0%
<b>Section 3 Works - Central - Wan Chai Bypass Tunnel Structure from west start tunnel to drainage 3400</b>				
<b>Tunnel Portion 5</b>				
S10-T5-0005	Tunnel portion 5 Prefill & guide	21/23-Dec-14	19-Jan-15	0%
S10-T5-0010	Tunnel portion 5 diaphragm wall & bored pile works	110/20-Jan-15	04-Jun-15	0%
S10-T5-0015	Tunnel portion 5 pump test	14/13-Jun-15	30-Jun-15	0%
S10-T5-0020	Tunnel portion 5 tunnel ELSW excavation	48/04-Jul-15	25-Aug-15	0%
S10-T5-0030	Tunnel portion 5 tunnel structure construction	90/28-Aug-15	11-Dec-15	0%
<b>Tunnel Portion 6</b>				
S10-T6-0040	Tunnel portion 6 Prefill & guide	12/24-Apr-15	08-May-15	0%
S10-T6-0050	Tunnel portion 6 diaphragm wall & bored pile works at Area 10	48/09-May-15	09-Jul-15	0%
S10-T6-0055	Tunnel portion 6 pump test	14/25-Jun-15	11-Jul-15	0%
S10-T6-0060	Tunnel portion 6 tunnel ELSW excavation at Area 10	48/04-Jul-15	25-Aug-15	0%
S10-T6-0070	Tunnel portion 6 tunnel structure construction at Area 10	58/28-Aug-15	04-Nov-15	0%

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Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai East (Contract 2)

Revised Programme dated 7 April 2011

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Revised Programme dated 7 April 2011

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Date	Revision	Checked	Approved
07-Apr-11	KT		KY

Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai East (Contract 2)

Revised Programme dated 7 April 2011

Remaining Level of Effort

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai East (Contract 2)

Revised Programme dated 7 April 2011

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Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai East (Contract 2)

Revised Programme dated 7 April 2011