

MTR Corporation Limited

HONG KONG SECTION OF GUANGZHOU –
SHENZHEN – HONG KONG EXPRESS RAIL LINK
(No. EP-349/2009/A)

Baseline Monitoring Report (Part 14)

Verified by: 
Position: Independent Environmental Checker
Date: 24 December 2010

MTR Corporation Limited

HONG KONG SECTION OF GUANGZHOU -
SHENZHEN - HONG KONG EXPRESS RAIL LINK
(No. EP-349/2009/A)

Baseline Monitoring Report (Part 14)

Certified by:

Glenn Frommer

Position:

Environmental Team Leader

Date:

23 DEC 2010

Table of Contents

EXECUTIVE SUMMARY 1

1. INTRODUCTION.....2

2. AIR QUALITY.....3

3. AIRBORNE CONSTRUCTION NOISE.....8

4. CONCLUSION 16

APPENDIX A 18

APPENDIX B 34

APPENDIX C 113

APPENDIX D 114

EXECUTIVE SUMMARY

The environmental baseline monitoring for the Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link, hereinafter referred to “the XRL” was conducted at 3 dust monitoring location and 6 noise monitoring locations in the vicinity of Works Areas D and E (Figure 1). Noise measurements were taken in terms of Leq with L10 and L90 as reference. Air quality was measured in terms of 1-hour and 24-hour average Total Suspended Particulates (TSP).

As no access was obtained from the owners of original monitoring locations at Leung Uk Tsuen Squats (AM 5) and Tse Uk Tsuen (AM 7), the monitoring locations were re-located to the alternative locations in close proximity to the works area for representative monitoring results. The alternative monitoring locations were agreed by the IEC. Monitoring of 1-hour and 24-hr TSP level were conducted at DD110 Lot 482, Wang Toi Shan (AM 4), outside Leung Uk Tsuen Squats (AM 5) and near footpath in Tse Uk Tsuen (AM 7). The average 1-hour TSP levels was 88.0 $\mu\text{g}/\text{m}^3$, 90.5 $\mu\text{g}/\text{m}^3$, 66.5 $\mu\text{g}/\text{m}^3$ at AM 4, 5 and 7 respectively. The average 24-hour TSP levels were 28.5 $\mu\text{g}/\text{m}^3$, 33.8 $\mu\text{g}/\text{m}^3$ and 30.5 $\mu\text{g}/\text{m}^3$ at AM 4, 5 and 7 respectively.

The Action Levels at the monitoring locations were derived based on the baseline monitoring results. The Action Level of 1-hour TSP levels were 307.2 $\mu\text{g}/\text{m}^3$, 308.8 $\mu\text{g}/\text{m}^3$ and 293.2 $\mu\text{g}/\text{m}^3$ at AM 4, 5 and 7 respectively while the Action Level of 24-hour TSP levels were 148.6 $\mu\text{g}/\text{m}^3$, 152.0 and 149.8 $\mu\text{g}/\text{m}^3$ at AM 4, 5 and 7 respectively.

Baseline noise monitoring was carried out at CN 7-10 and CN 13-14 located in the vicinity of Works Areas D and E. As no access was obtained for noise monitoring at House 93, Seasons Villas (CN 7), Leung Uk Tsuen Village House (CN 9), No. 489H Tse Uk Tsuen (CN 13) and Tse Uk Tsuen (CN 14) in the EM&A Manual and their adjacent buildings, noise monitoring locations were relocated to the alternative monitoring locations which were agreed by IEC.

Baseline noise monitoring was conducted during daytime (0700-1900 hours), evening time (1900-2300 hours) and night-time (2300-0700 hours) on all day during the above-mentioned period. In this report, the measured noise levels on weekdays were presented separately from general holidays and Sundays for easy of reference. As revealed from the monitoring results, average baseline noise levels for daytime

(0700-1900) during normal weekdays at the CN 7-10 and CN 13-14 range from 56 to 60 dB(A). The average daytime baseline noise levels at all of the monitoring locations CN 7-10 and CN 13-14 are below the daytime Limit Level of 75 dB (A) for residential premises.

1. INTRODUCTION

1.1 Background

Further to the Government's decision made in April 2008, MTR Corporation (MTR) commenced to plan and design the Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link (hereinafter referred to "the XRL" or "the Project"), which is a committed cross boundary transport infrastructure project.

The XRL will provide high speed rail services between Hong Kong and Guangzhou, and a connection to the national high-speed passenger rail network serving major mainland cities outside of Guangdong province. The Hong Kong section of the XRL is about 26km from new terminus located in West Kowloon (i.e. West Kowloon Terminus (WKT)) to the boundary at Huang gang. Along the railway corridor, there will be a total of eight ventilation buildings/ emergency access point (EAP), stabling sidings and a maintenance facility at Shek Kong (SSS) and an Emergency Rescue Station (ERS) next to SSS serving the operation of the XRL.

1.2 Purpose of the report

In accordance with the Environmental Monitoring and Audit (EM&A) Manual, environmental baseline monitoring was carried out for dust and noise. This Baseline Monitoring Report (Part 14) contains baseline monitoring findings in the vicinity of Works Areas D and E (Figure 1). The purpose of this report is to summarize the findings of this baseline monitoring and to establish the compliance levels for the subsequent environmental impact monitoring during construction stage.

2. AIR QUALITY

2.1 Monitoring Methodology

Monitoring was undertaken to establish baseline levels for both 1-hour and 24-hour Total Suspended Particulates (TSP) at AM 4, AM 5 and AM 7 located in the vicinity of the works areas D and E. This provides data against which any environmental impacts due to construction activities can be compared.

During the construction period impact monitoring will only be conducted for 24-hour TSP, although 1-hour TSP monitoring may also be conducted and used in following up on complaints or exceedances, in order to provide a more rapid indication of the source of the problem at hand.

Baseline monitoring was conducted for both 1-hour and 24-hour TSP respectively using a direct reading meter (MIE Data-RAM Portable Real Time Aerosol Monitor) and a high volume sampler (HVS) according to Part 50 Chapter 1 Appendix B, Title 40 of the Code of Federal Regulations of the USEPA.

2.2 Monitoring Frequency

Three separate 1-hour TSP measurements daily for a period of at least 14 days were made at the monitoring station to establish the ambient 1-hour TSP levels. For 24-hour TSP, monitoring was carried out continuously over a period of at least 14 days at the monitoring stations to establish the ambient 24-hour TSP levels. The monitoring frequency for baseline monitoring of 1-hour and 24-hour TSP is summarized in the table below:

Sampling Parameter	Frequency	Duration
1 hour TSP	• 3 times per day	Consecutive days of at least 2 weeks before commencement of construction works
Continuous 24-hour TSP	• Daily	

Table 2.1: Monitoring frequency for baseline monitoring of 1-hour and 24-hour TSP

2.3 Monitoring location

According to the EM&A Manual, baseline air quality monitoring was carried out during the period shown in Table 2.2 to determine the ambient levels of both 1-hour and 24-hour TSP levels respectively at AM 4, AM 5 and AM7 in the vicinity of Works Areas D and E. The locations of the works area and the respective ASR are shown in Figures 1 and 2 respectively.

As no access was obtained from the owners of original monitoring locations at Leung Uk Tsuen Squats (AM 5) and Tse Uk Tsuen (AM 7), the monitoring locations were re-located to the alternative locations as shown in the table below. The alternative monitoring locations were agreed by IEC. For the selection of alternative monitoring location at AM 7, although there are houses located immediately next to the construction site (e.g. those houses adjacent to the Kam Sheung Road), major construction activities are expected at the construction shaft in the southern part of the works area. As such, it was proposed that the location be located near footpath in vicinity to the southern part of the works area for representative monitoring result. The information of the ASRs where baseline air monitoring had been conducted is summarized in the table below:

Monitoring Station ID	Air Quality Monitoring Location	Monitoring period
AM 4	DD110 Lot 482, Wang Toi Shan	31/7/2010 to 13/8/2010 (1hr and 24-hr)
AM 5	Outside Leung Uk Tsuen Squats	4/7/2010 to 17/7/2010 (1hr and 24-hr)

Monitoring Station ID	Air Quality Monitoring Location	Monitoring period
AM 7	Near footpath in Tse Uk Tsuen	31/7/2010 to 13/8/2010 (1hr and 24-hr)

Table 2.2: Information of Air Sensitive Receiver where dust monitoring was conducted

2.4 Calibration requirements

The flow rate of the high volume sampler with mass flow controller was calibrated using an orifice calibrator. Initial calibration (five points) was conducted upon installation and prior to commissioning. Calibration was carried out every six months. Calibration certificate is attached in Appendix C. Calibration of the MIE by certified laboratory or manufacturer was carried out every two years and properly documented. Calibration certificates at AM 4, 5 and 7 are attached in Appendix C.

The samplers shall be properly maintained. Prior to dust monitoring commencing, appropriate checks shall be made to ensure that all equipment and necessary power supply are in good working condition.

2.5 Monitoring Procedures

1-Hour TSP Levels Monitoring

TSP is sampled by drawing air into the MIE where particulate concentrations are measured instantaneously with an in-built detector sensing light scattered by the particles in the sampled air (optical sensing stage). Continuous TSP levels are indicated on the MIE along with a 'Time Weighted Average' value.

24-Hour TSP Levels Monitoring

The sampling procedure follows to that described Part 50 Chapter 1 Appendix B, Title 40 of the Code of Federal Regulations of the USEPA. TSP is sampled by drawing air through a conditioned, pre-weighed filter paper inside the high volume sampler at a

controlled rate. After 24-hour sampling the filter paper with retained particles shall be collected and returned to HOKLAS accredited laboratory (ALS Technichem (HK) Pty Ltd) for drying in a desiccators followed by accurate weighing. TSP levels are calculated from the ratio of the mass of particulate retained on the filter paper to the total volume of air sampled.

2.6 Monitoring Results

Monitoring results of 1-hour and 24-hour TSP at AM 4, 5 and 7. are summarised in Table 2.3 and 2.4. No major dust source was identified at AM 4, 5 and 7. The detailed monitoring data of 1-hour and 24-hour of AM 4, AM 5 and AM 7 is shown in Appendix A.

Monitoring Location	Average 1-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)
DD110 Lot 482, Wang Toi Shan (AM 4)	88.0 (46.9-156.6)
Outside Leung Uk Tsuen Squats (AM 5)	90.5 (54.8-183.4)
Near footpath in Tse Uk Tsuen (AM 7)	66.5 (45.9-95.7)

Table 2.3: Summary of baseline 1-hour TSP level

Monitoring Location	Average 24-TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)
DD110 Lot 482, Wang Toi Shan (AM 4)	28.5 (10.7-53.3)
Outside Leung Uk Tsuen Squats (AM 5)	33.8 (14.6-47.4)
Near footpath in Tse Uk Tsuen (AM 7)	30.5 (9.4-87.9)

Table 2.4: Summary of baseline 24-hour TSP level

2.7 Action and Limit Levels

In accordance with the EM&A Manual, the baseline TSP levels form the basis for derivation of the Action Levels for subsequent impact monitoring, which is summarised in the table below:

Parameter	Action Level ⁽¹⁾	Limit Level
TSP (24 hour average)	• $BL \leq 200 \mu\text{g m}^{-3}$, $AL = (BL * 1.3 + LL)/2$ • $BL > 200 \mu\text{g m}^{-3}$, $AL = LL$	$260 \mu\text{g m}^{-3}$
TSP (1 hour average)	• $BL \leq 384 \mu\text{g m}^{-3}$, $AL = (BL * 1.3 + LL)/2$ • $BL > 384 \mu\text{g m}^{-3}$, $AL = LL$	$500 \mu\text{g m}^{-3}$

(1) BL = Baseline level, AL = Action level, LL = Limit Level.

Table 2.5: Basis for establishing the Action and Limit Levels for Air Quality

In accordance with Table 2.3 and 2.4 regarding results from baseline monitoring, the Action Level for air quality impact monitoring are calculated and presented below:

Location	Parameter	Action Level	Limit Level
DD110 Lot 482, Wang Toi Shan (AM 4)	TSP (24-hour average)	$148.6 \mu\text{g m}^{-3}$	$260 \mu\text{g m}^{-3}$
	TSP (1-hour average)	$307.2 \mu\text{g m}^{-3}$	$500 \mu\text{g m}^{-3}$
Outside Leung Uk Tsuen Squats (AM 5)	TSP (24-hour average)	$152.0 \mu\text{g m}^{-3}$	$260 \mu\text{g m}^{-3}$
	TSP (1-hour average)	$308.8 \mu\text{g m}^{-3}$	$500 \mu\text{g m}^{-3}$
Near footpath in Tse Uk Tsuen (AM 7)	TSP (24-hour average)	$149.8 \mu\text{g m}^{-3}$	$260 \mu\text{g m}^{-3}$
	TSP (1-hour average)	$293.2 \mu\text{g m}^{-3}$	$500 \mu\text{g m}^{-3}$

Table 2.6: Action and Limit Levels for Air Quality Impact Monitoring

3. AIRBORNE CONSTRUCTION NOISE

3.1 Monitoring Methodology

Consecutive noise measurements were undertaken over a period of at least 14 days to establish the ambient noise levels at representative nearest sensitive receivers. Continuous 5 minute A-weighted noise levels were recorded throughout the daytime, evening and night-time on weekdays (Monday to Saturday) and also on Sundays.

As referred to the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. In this baseline monitoring, B&K 2250 sound level meter, which complies with the above-mentioned specifications, was used.

There should not be any construction activities in the vicinity of the monitoring stations during the baseline monitoring. Any non-project related construction activities in the vicinity of the monitoring stations during the baseline monitoring should be noted and the source and location of such activities should be recorded. Façade correction of +3 dB (A) was applied to the CN 7-9, CN 13-14 where free-field measurement was taken.

With reference to Section 3.7 of the EM&A Manual, noise measurements should not be made in the presence of fog, rain, wind with a steady speed exceeding 5ms⁻¹ or wind with gusts exceeding 10ms⁻¹. The wind speed was checked with a portable wind speed meter capable of measuring wind speeds in m/s.

3.2 Monitoring Frequency

The baseline monitoring was measured daily for a continuous period of at least 14 consecutive days at a minimum logging interval of 30 minutes for daytime (between 0700 and 1900 hours of normal weekdays) and 15 minutes (as three consecutive Leq, (5 minutes) readings) for evening time (between 1900 and 2300 hours of normal weekdays), general holidays including Sundays (between 0700 and 2300 hours) and night-time (between 2300 and 0700 of all days). The Leq, L10 and L90 were recorded at the specified interval.

3.3 Monitoring location

Baseline noise monitoring was carried out at CN 7-10 and CN 13-14 located in the vicinity of Works Areas D and E. As no access was obtained for noise monitoring at House 93, Seasons Villas (CN 7), Leung Uk Tsuen Village House (CN 9), No. 489H Tse Uk Tsuen (CN 13) and Tse Uk Tsuen (CN 14) in the EM&A Manual and their adjacent buildings, noise monitoring location was relocated to the alternative monitoring locations which were agreed by IEC. The locations of the NSR are shown in Figure 3. Monitoring was carried out at the following station in accordance with the EM&A Manual:

Monitoring Station ID	Noise Monitoring Location	Monitoring period
CN 7	No. 372 Tai Kong Po Tsuen	16/10/2010 - 29/10/2010
CN 8	DD110 LOT 482, Wang Toi Shan	3/10/2010 - 16/10/2010
CN 9	Leung Uk Tsuen Village House	15/10/2010 - 28/10/2010
CN 10	DD110 LOT 482, Wang Toi Shan	6/8/2010 – 25/8/2010 ¹
CN 13	Tse Uk Tsuen	21/8/2010 - 14/9/2010 ²
CN 14	Tse Uk Tsuen	16/9/2010 - 1/10/2010 ³

Note: 1. No monitoring was carried out on 7/8, 11/8, 19/8, 20/8, 23/8 and 24/8 due to rainfall.

2. No monitoring was carried out on 23/8, 24/8, 28/8, 3/9-5/9 and 8/9-12/9 due to rainfall.

3. No monitoring was carried out on 20/9 and 21/9 due to rainfall.

Table 3.1: Details of noise monitoring locations

3.4 Calibration Requirements

B&K 2250 sound level meter which complied with the International Electrotechnical Commission Publication 651:1979 (Type 1) and 804:1985 (Type 1), specification as referred to in the Technical Memoranda to the NCO were used for the baseline monitoring at CN 7-10 and CN 13-14. The sound level meter and calibrator are verified by the certified laboratory or manufacturer once every year to ensure they perform to the same level of accuracy as stated in the manufacturer's specifications. Calibration certificates of the sound level meters and calibrator at CN 7-10 and CN 13-14 are attached in Appendix C.

Immediately prior to and following each noise measurement the accuracy of the sound level meter should 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 difference between calibration levels obtained before and after the noise measurement is less than 1.0 dB.

3.5 Action and Limit Levels

The Action and Limit Levels defined in the EM&A Manual for airborne construction noise is presented below for reference.

Time Period	Action	Limit
0700-1900 hours on normal weekdays	When one documented complaint is received	75 dB(A) for residential premises
		70 dB(A) for school and 65 dB(A) during examination period

Table 3.2: Action and Limit Levels for Airborne Construction Noise

3.6 Monitoring Results

Baseline noise monitoring was conducted during the period shown in Table 3.3 at CN 7-10 and CN 13-14. The weather condition was generally fine during the monitoring period with occasional rainfall. The major noise sources at respective monitoring locations are summarized at the table below:

Monitoring location ID	Monitoring location	Major noise source
CN 7	No. 372 Tai Kong Po Tsuen	Noise from domestic

Monitoring location ID	Monitoring location	Major noise source
		premises and traffic noise
CN 8	DD110 LOT 482, Wang Toi Shan	Noise from domestic premises
CN 9	Leung Uk Tsuen Village House	Noise from domestic premises and traffic noise
CN 10	DD110 LOT 482, Wang Toi Shan	Noise from domestic premises
CN 13	Tse Uk Tsuen	Noise from domestic premises
CN 14	Tse Uk Tsuen	Noise from domestic premises

Table 3.3: Major noise source at noise monitoring locations

Baseline noise monitoring result at CN 7-10 and CN 13-14 is summarised in Table 3.3 over the monitoring periods. Detailed monitoring data at CN 7-10 and CN 13-14 is contained in Appendix B. Graphical presentations of the monitoring results at CN 7-10 and CN 13-14 are shown in Appendix B.

Period	Monitoring Station	L_{eq}(30min) – dB(A) (Range)	L₁₀(30min) – dB(A) (Range)	L₉₀(30min) – dB(A) (Range)
<i>Monitoring result at CN 7</i>				
0700 – 1900 (Daytime, Normal weekday)	CN 7	57 (55-59)	59 (57-61)	53 (51-54)
0700 – 2300 (General Holiday including Sunday)	CN 7	55 (52-62)	57 (53-67)	52 (50-54)
1900 – 2300 (Evening, Normal weekday)	CN 7	53 (52-55)	55 (54-57)	51 (50-52)
2300 – 0700 (Night-time, all days)	CN 7	51 (49-58)	53 (50-61)	50 (48-53)
<i>Monitoring result at CN 8</i>				
0700 – 1900 (Daytime, Normal weekday)	CN 8	57 (55-58)	59 (57-61)	53 (51-55)
0700 – 2300 (General Holiday including Sunday)	CN 8	54 (52-59)	56 (53-63)	51 (50-54)
1900 – 2300 (Evening, Normal weekday)	CN 8	53 (52-57)	55 (54-58)	51 (50-52)
2300 – 0700 (Night-time, all days)	CN 8	51 (49-58)	53 (50-61)	49 (48-53)

Period	Monitoring Station	L_{eq}(30min) – dB(A) (Range)	L₁₀(30min) – dB(A) (Range)	L₉₀(30min) – dB(A) (Range)
<i>Monitoring result at CN 9</i>				
0700 – 1900 (Daytime, Normal weekday)	CN 9	60 (55-61)	62 (58-64)	53 (49-57)
0700 – 2300 (General Holiday including Sunday)	CN 9	55 (51-64)	58 (53-68)	49 (42-57)
1900 – 2300 (Evening, Normal weekday)	CN 9	54 (52-57)	57 (55-60)	48 (46-49)
2300 – 0700 (Night-time, all days)	CN 9	51 (46-56)	54 (49-59)	44 (41-47)
<i>Monitoring result at CN 10</i>				
0700 – 1900 (Daytime, Normal weekday)	CN 10	58 (55-61)	60 (56-64)	55 (54-57)
0700 – 2300 (General Holiday including Sunday)	CN 10	58 (54-65)	60 (54-67)	56 (53-62)
1900 – 2300 (Evening, Normal weekday)	CN 10	57 (54-60)	58 (55-63)	55 (54-57)
2300 – 0700 (Night-time, all days)	CN 10	55 (54-56)	56 (55-58)	55 (54-56)
<i>Monitoring result at CN 13</i>				

Period	Monitoring Station	L_{eq}(30min) – dB(A) (Range)	L₁₀(30min) – dB(A) (Range)	L₉₀(30min) – dB(A) (Range)
0700 – 1900 (Daytime, Normal weekday)	CN 13	56 (53-61)	59 (56-64)	49 (48-53)
0700 – 2300 (General Holiday including Sunday)	CN 13	55 (49-62)	57 (51-67)	50 (43-55)
1900 – 2300 (Evening, Normal weekday)	CN 13	57 (55-60)	59 (56-65)	54 (51-55)
2300 – 0700 (Night-time, all days)	CN 13	55 (53-57)	56 (54-61)	54 (51-55)
<i>Monitoring result at CN 14</i>				
0700 – 1900 (Daytime, Normal weekday)	CN 14	57 (50-61)	60 (52-66)	49 (46-53)
0700 – 2300 (General Holiday including Sunday)	CN 14	57 (48-70)	60 (49-76)	51 (41-61)
1900 – 2300 (Evening, Normal weekday)	CN 14	54 (52-55)	55 (53-58)	53 (50-54)
2300 – 0700 (Night-time, all days)	CN 14	54 (52-57)	55 (53-58)	53 (50-55)

Table 3.4: Baseline noise monitoring results

As revealed from the monitoring results, average baseline noise levels for daytime (0700-1900) during normal weekdays at the CN 7-10 and CN 13-14 range from 56 to 60 dB(A). The average daytime baseline noise levels at all of the monitoring locations CN 7-10 and CN 13-14 are below the daytime Limit Level of 75 dB (A) for residential premises.

4. CONCLUSION

4.1 Air

1-hour TSP

Baseline 1-hour TSP monitoring was conducted at AM 4, 5 and 7 during the period between July and August 2010. The weather condition was mostly fine with occasional rainy days.

Baseline 1-hour TSP monitoring at AM 4, 5 and 7 was found in the range of 46.9 to 156.6 $\mu\text{g}/\text{m}^3$, 54.8 to 183.4 $\mu\text{g}/\text{m}^3$ and 45.9 to 95.7 $\mu\text{g}/\text{m}^3$ respectively. The average 1-hour TSP level at AM 4, 5 and 7 was recorded to be 88.0 $\mu\text{g}/\text{m}^3$, 90.5 $\mu\text{g}/\text{m}^3$ and 66.5 $\mu\text{g}/\text{m}^3$ respectively.

24-hour TSP

Baseline 24-hour TSP monitoring at AM 4, 5 and 7 was found in the range of 10.7 to 53.3 $\mu\text{g}/\text{m}^3$, 14.6 to 47.4 $\mu\text{g}/\text{m}^3$ and 9.4 to 87.9 $\mu\text{g}/\text{m}^3$ respectively. The average 24-hour TSP level at AM 4, 5 and 7 was recorded to be 28.5 $\mu\text{g}/\text{m}^3$, 33.8 $\mu\text{g}/\text{m}^3$ and 30.5 $\mu\text{g}/\text{m}^3$ respectively.

1-hr and 24-hour Action Levels

The Action Levels at the monitoring locations were derived based on the baseline monitoring results. The Action Level of 1-hour average TSP levels at AM 4, 5 and 7 was 307.2 $\mu\text{g}/\text{m}^3$, 308.8 $\mu\text{g}/\text{m}^3$ and 293.2 $\mu\text{g}/\text{m}^3$ respectively. The Action Levels of 24-hour average TSP levels at AM 4, 5 and 7 was 148.6 $\mu\text{g}/\text{m}^3$, 152.0 $\mu\text{g}/\text{m}^3$ and 149.8 $\mu\text{g}/\text{m}^3$ respectively.

4.2 Airborne Construction Noise

Baseline noise monitoring was carried at between August and October 2010 at the six noise monitoring locations. The weather condition was generally fine during the monitoring period with occasional rainfall.

As revealed from the monitoring results, average baseline noise levels for daytime (0700-1900) during normal weekdays at the CN 7-10 and CN 13-14 range from 56 to 60 dB(A). The average daytime baseline noise levels at all of the monitoring locations CN 7-10 and CN 13-14 are below the daytime Limit Level of 75 dB (A) for residential premises.

Appendix A

Baseline air quality (1-hr and 24-hr TSP)

Monitoring data

Details of 1-hour TSP Level monitoring at AM 4

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m ³)	Remarks
		No.	Set No.	Start	Finish						
Jul-10	31-Jul-10	AM4	1	8:59	9:59	Fine	Normal	30.0	754.0	55.7	
Jul-10	31-Jul-10	AM4	2	9:59	10:59	Fine	Normal	30.0	754.0	54.2	
Jul-10	31-Jul-10	AM4	3	16:24	17:24	Fine	Normal	30.0	754.0	61.3	
Aug-10	01-Aug-10	AM4	1	12:49	13:49	Fine	Normal	30.0	755.0	89.6	
Aug-10	01-Aug-10	AM4	2	15:49	16:49	Fine	Normal	30.0	755.0	83.2	
Aug-10	01-Aug-10	AM4	3	16:49	17:49	Fine	Normal	30.0	755.0	100.6	
Aug-10	02-Aug-10	AM4	1	14:23	15:23	Fine	Normal	29.0	754.0	79.3	
Aug-10	02-Aug-10	AM4	2	15:48	16:48	Fine	Normal	29.0	754.0	78.9	
Aug-10	02-Aug-10	AM4	3	16:53	17:53	Fine	Normal	29.0	754.0	87.8	
Aug-10	03-Aug-10	AM4	1	12:43	13:43	Fine	Normal	29.0	754.0	46.9	
Aug-10	03-Aug-10	AM4	2	15:58	16:58	Fine	Normal	29.0	754.0	60.7	
Aug-10	03-Aug-10	AM4	3	16:58	17:58	Fine	Normal	29.0	754.0	71.3	
Aug-10	04-Aug-10	AM4	1	11:53	12:53	Fine	Normal	30.0	755.0	103.6	
Aug-10	04-Aug-10	AM4	2	12:53	13:53	Fine	Normal	30.0	755.0	112.6	
Aug-10	04-Aug-10	AM4	3	13:53	14:53	Fine	Normal	30.0	755.0	127.2	
Aug-10	05-Aug-10	AM4	1	9:18	10:18	Fine	Normal	29.0	756.0	156.6	
Aug-10	05-Aug-10	AM4	2	11:28	12:28	Fine	Normal	29.0	756.0	143.1	

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m³)	Remarks
		No.	Set No.	Start	Finish						
Aug-10	05-Aug-10	AM4	3	14:13	15:13	Fine	Normal	29.0	756.0	121.7	
Aug-10	06-Aug-10	AM4	1	13:43	14:43	Fine	Normal	28.0	756.0	143.5	
Aug-10	06-Aug-10	AM4	2	15:28	16:28	Fine	Normal	28.0	756.0	136.4	
Aug-10	06-Aug-10	AM4	3	16:28	17:28	Fine	Normal	28.0	756.0	127.5	
Aug-10	07-Aug-10	AM4	1	10:03	11:03	Fine	Normal	29.0	756.0	80.3	
Aug-10	07-Aug-10	AM4	2	12:03	13:03	Fine	Normal	29.0	756.0	69.5	
Aug-10	07-Aug-10	AM4	3	16:33	17:33	Fine	Normal	29.0	756.0	88.2	
Aug-10	08-Aug-10	AM4	1	9:48	10:48	Fine	Normal	29.0	755.0	64.6	
Aug-10	08-Aug-10	AM4	2	11:18	12:18	Fine	Normal	29.0	755.0	81.4	
Aug-10	08-Aug-10	AM4	3	13:28	14:28	Fine	Normal	29.0	755.0	75.3	
Aug-10	09-Aug-10	AM4	1	9:28	10:28	Rainy	Normal	30.0	755.0	64.6	
Aug-10	09-Aug-10	AM4	2	11:03	12:03	Rainy	Normal	30.0	755.0	66.2	
Aug-10	09-Aug-10	AM4	3	12:43	13:43	Rainy	Normal	30.0	755.0	71.3	
Aug-10	10-Aug-10	AM4	1	11:18	12:18	Fine	Normal	30.0	755.0	96.7	
Aug-10	10-Aug-10	AM4	2	12:48	13:48	Fine	Normal	30.0	755.0	92.1	
Aug-10	10-Aug-10	AM4	3	15:48	16:48	Fine	Normal	30.0	755.0	84.9	
Aug-10	11-Aug-10	AM4	1	11:58	12:58	Fine	Normal	28.0	757.0	75.0	
Aug-10	11-Aug-10	AM4	2	15:13	16:13	Fine	Normal	28.0	757.0	104.7	
Aug-10	11-Aug-10	AM4	3	16:58	17:58	Fine	Normal	28.0	757.0	89.7	

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m³)	Remarks
		No.	Set No.	Start	Finish						
Aug-10	12-Aug-10	AM4	1	12:38	13:38	Cloudy	Normal	29.0	758.0	79.0	
Aug-10	12-Aug-10	AM4	2	13:58	14:58	Cloudy	Normal	29.0	758.0	83.4	
Aug-10	12-Aug-10	AM4	3	14:58	15:58	Cloudy	Normal	29.0	758.0	86.3	
Aug-10	13-Aug-10	AM4	1	9:13	10:13	Cloudy	Normal	30.0	757.0	59.4	
Aug-10	13-Aug-10	AM4	2	11:03	12:03	Cloudy	Normal	30.0	757.0	73.1	
Aug-10	13-Aug-10	AM4	3	12:13	13:13	Cloudy	Normal	30.0	757.0	68.9	
									Average	88.0	
									Max	156.6	
									Min	46.9	
									Action Level	307.2	
									Limit Level	500.0	

Details of 24-hour TSP Level monitoring at AM 4

Filter No.	Date	Time periods		Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
		Start	Finish			Initial	Final		Initial	Final		Start	Finish			
120181	31-Jul-10	14:08	14:08	Fine	Normal Operation	2.7448	2.8027	0.0579	1.3025	1.2746	1.2886	5755.89	5779.89	1440.00	1855.51	31.2
120182	01-Aug-10	14:15	14:15	Fine	Normal Operation	2.7581	2.8017	0.0436	1.2746	1.2471	1.2609	5779.89	5803.89	1440.00	1815.62	24.0
120229	02-Aug-10	14:23	14:23	Fine	Normal Operation	2.7581	2.7921	0.0340	1.3047	1.2759	1.2903	5803.89	5827.89	1440.00	1858.03	18.3
120230	03-Aug-10	14:24	14:24	Fine	Normal Operation	2.7530	2.7898	0.0368	1.3047	1.3034	1.3041	5827.89	5851.89	1440.00	1877.83	19.6
120231	04-Aug-10	14:29	14:29	Fine	Normal Operation	2.7451	2.7753	0.0302	1.2746	1.2487	1.2617	5851.89	5875.89	1440.00	1816.78	16.6
120232	05-Aug-10	14:34	14:34	Fine	Normal Operation	2.7686	2.8575	0.0889	1.2775	1.2507	1.2641	5875.89	5899.89	1440.00	1820.30	48.8
120233	06-Aug-10	14:39	14:39	Fine	Normal Operation	2.7480	2.8236	0.0756	1.2795	1.2487	1.2641	5899.89	5923.89	1440.00	1820.30	41.5
120234	07-Aug-10	14:44	14:44	Fine	Normal Operation	2.7610	2.8158	0.0548	1.2775	1.2479	1.2627	5923.89	5947.89	1440.00	1818.29	30.1
120235	08-Aug-10	14:49	14:49	Fine	Normal Operation	2.7455	2.8423	0.0968	1.2767	1.2459	1.2613	5947.89	5971.89	1440.00	1816.27	53.3
120236	09-Aug-10	14:52	14:52	Rainy	Normal Operation	2.7475	2.7801	0.0326	1.2746	1.2746	1.2746	5971.89	5995.89	1440.00	1835.42	17.8
120237	10-Aug-10	14:56	14:56	Fine	Normal Operation	2.7500	2.8237	0.0737	1.2746	1.3093	1.2920	5995.89	6019.89	1440.00	1860.41	39.6
120238	11-Aug-10	15:01	15:01	Fine	Normal Operation	2.7531	2.7733	0.0202	1.3093	1.3080	1.3087	6019.89	6043.89	1440.00	1884.46	10.7
120239	12-Aug-10	15:07	15:07	Cloudy	Normal Operation	2.7387	2.7778	0.0391	1.3080	1.3051	1.3066	6043.89	6067.89	1440.00	1881.43	20.8
120240	13-Aug-10	15:12	15:12	Cloudy	Normal Operation	2.7394	2.7902	0.0508	1.3051	1.2784	1.2918	6067.89	6091.89	1440.00	1860.12	27.3
															Average	28.5
															Max	53.3

Min	10.7
Action Level	148.6
Limit Level	260.0

Details of 1-hour TSP Level monitoring at AM 5

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m ³)	Remarks
		No.	Set No.	Start	Finish						
Jul-10	04-Jul-10	AM5	1	11:27	12:27	Fine	Normal	30.0	756.0	150.3	
Jul-10	04-Jul-10	AM5	2	12:27	13:27	Fine	Normal	30.0	756.0	63.4	
Jul-10	04-Jul-10	AM5	3	16:57	17:57	Fine	Normal	30.0	756.0	85.7	
Jul-10	05-Jul-10	AM5	1	9:37	10:37	Fine	Normal	30.0	755.0	183.4	
Jul-10	05-Jul-10	AM5	2	12:47	13:47	Fine	Normal	30.0	755.0	140.8	
Jul-10	05-Jul-10	AM5	3	16:57	17:57	Fine	Normal	30.0	755.0	152.8	
Jul-10	06-Jul-10	AM5	1	8:02	9:02	Fine	Normal	30.0	756.0	124.9	
Jul-10	06-Jul-10	AM5	2	9:57	10:57	Fine	Normal	30.0	756.0	123.4	
Jul-10	06-Jul-10	AM5	3	16:54	17:54	Fine	Normal	30.0	756.0	121.8	
Jul-10	07-Jul-10	AM5	1	11:09	12:09	Fine	Normal	30.0	756.0	127.8	
Jul-10	07-Jul-10	AM5	2	12:09	13:09	Fine	Normal	30.0	756.0	119.8	
Jul-10	07-Jul-10	AM5	3	13:09	14:09	Fine	Normal	30.0	756.0	91.1	
Jul-10	08-Jul-10	AM5	1	9:14	10:14	Fine	Normal	31.0	756.0	80.9	
Jul-10	08-Jul-10	AM5	2	11:49	12:49	Fine	Normal	31.0	756.0	103.9	
Jul-10	08-Jul-10	AM5	3	15:29	16:29	Fine	Normal	31.0	756.0	82.2	
Jul-10	09-Jul-10	AM5	1	12:43	13:43	Fine	Normal	30.0	756.0	80.9	
Jul-10	09-Jul-10	AM5	2	14:03	15:03	Fine	Normal	30.0	756.0	83.2	

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m³)	Remarks
		No.	Set No.	Start	Finish						
Jul-10	09-Jul-10	AM5	3	16:53	17:53	Fine	Normal	30.0	756.0	84.1	
Jul-10	10-Jul-10	AM5	1	9:58	10:58	Fine	Normal	30.0	757.0	97.1	
Jul-10	10-Jul-10	AM5	2	12:58	13:58	Fine	Normal	30.0	757.0	107.3	
Jul-10	10-Jul-10	AM5	3	14:23	15:23	Fine	Normal	30.0	757.0	110.7	
Jul-10	11-Jul-10	AM5	1	8:08	9:08	Fine	Normal	30.0	757.0	65.8	
Jul-10	11-Jul-10	AM5	2	12:13	13:13	Fine	Normal	30.0	757.0	64.9	
Jul-10	11-Jul-10	AM5	3	16:48	17:48	Fine	Normal	30.0	757.0	80.3	
Jul-10	12-Jul-10	AM5	1	8:28	9:28	Fine	Normal	30.0	756.0	57.1	
Jul-10	12-Jul-10	AM5	2	14:58	15:58	Fine	Normal	30.0	756.0	61.4	
Jul-10	12-Jul-10	AM5	3	16:03	17:03	Fine	Normal	30.0	756.0	54.8	
Jul-10	13-Jul-10	AM5	1	8:08	9:08	Fine	Normal	31.0	756.0	76.1	
Jul-10	13-Jul-10	AM5	2	9:13	10:13	Fine	Normal	31.0	756.0	84.6	
Jul-10	13-Jul-10	AM5	3	14:11	15:11	Fine	Normal	31.0	756.0	71.4	
Jul-10	14-Jul-10	AM5	1	13:31	14:31	Cloudy	Normal	30.0	757.0	63.4	
Jul-10	14-Jul-10	AM5	2	15:51	16:51	Cloudy	Normal	30.0	757.0	67.2	
Jul-10	14-Jul-10	AM5	3	16:56	17:56	Cloudy	Normal	30.0	757.0	61.6	
Jul-10	15-Jul-10	AM5	1	9:16	10:16	Cloudy	Normal	28.0	757.0	77.3	
Jul-10	15-Jul-10	AM5	2	14:41	15:41	Cloudy	Normal	28.0	757.0	76.9	
Jul-10	15-Jul-10	AM5	3	16:56	17:56	Cloudy	Normal	28.0	757.0	82.0	

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m³)	Remarks
		No.	Set No.	Start	Finish						
Jul-10	16-Jul-10	AM5	1	9:41	10:41	Fine	Normal	30.0	756.0	79.1	
Jul-10	16-Jul-10	AM5	2	10:41	11:41	Fine	Normal	30.0	756.0	81.4	
Jul-10	16-Jul-10	AM5	3	16:56	17:56	Fine	Normal	30.0	756.0	70.7	
Jul-10	17-Jul-10	AM5	1	9:51	10:51	Fine	Normal	30.0	756.0	64.4	
Jul-10	17-Jul-10	AM5	2	12:56	13:56	Fine	Normal	30.0	756.0	81.3	
Jul-10	17-Jul-10	AM5	3	13:56	14:56	Fine	Normal	30.0	756.0	64.2	
									Average	90.5	
									Max	183.4	
									Min	54.8	
									Action Level	308.8	
									Limit Level	500.0	

Details of 24-hour TSP Level monitoring at AM 5

Filter No.	Date	Time periods		Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
		Start	Finish			Initial	Final		Initial	Final		Start	Finish			
120113	04-Jul-10	11:00	11:00	Fine	Normal Operation	2.7562	2.8104	0.0542	1.1037	1.1322	1.1180	7688.07	7712.07	1440.00	1609.85	33.7
120114	05-Jul-10	11:03	11:03	Fine	Normal Operation	2.7720	2.8457	0.0737	1.1029	1.0744	1.0887	7712.07	7736.07	1440.00	1567.66	47.0
120115	06-Jul-10	11:08	11:08	Fine	Normal Operation	2.7514	2.8287	0.0773	1.1331	1.1331	1.1331	7736.07	7760.07	1440.00	1631.66	47.4
120116	07-Jul-10	11:15	11:15	Fine	Normal Operation	2.7491	2.7940	0.0449	1.1037	1.1017	1.1027	7760.07	7784.07	1440.00	1587.89	28.3
120117	08-Jul-10	11:22	11:22	Fine	Normal Operation	2.7533	2.7761	0.0228	1.1017	1.0744	1.0881	7784.07	7808.07	1440.00	1566.79	14.6
120118	09-Jul-10	11:25	11:25	Fine	Normal Operation	2.7442	2.8094	0.0652	1.1624	1.1633	1.1629	7808.07	7832.07	1440.00	1674.50	38.9
120119	10-Jul-10	11:30	11:30	Fine	Normal Operation	2.7618	2.8139	0.0521	1.1633	1.1633	1.1633	7832.07	7856.07	1440.00	1675.15	31.1
120120	11-Jul-10	11:35	11:35	Fine	Normal Operation	2.7714	2.8085	0.0371	1.1339	1.1624	1.1482	7856.07	7880.07	1440.00	1653.34	22.4
120121	12-Jul-10	11:39	11:39	Fine	Normal Operation	2.7741	2.8320	0.0579	1.1037	1.1017	1.1027	7880.07	7904.07	1440.00	1587.89	36.5
120122	13-Jul-10	11:43	11:43	Fine	Normal Operation	2.7521	2.8058	0.0537	1.1603	1.1046	1.1325	7904.07	7928.07	1440.00	1630.73	32.9
120123	14-Jul-10	11:48	11:48	Cloudy	Normal Operation	2.7431	2.7910	0.0479	1.1339	1.1087	1.1213	7928.07	7952.07	1440.00	1614.67	29.7
120124	15-Jul-10	11:53	11:53	Cloudy	Normal Operation	2.7660	2.8258	0.0598	1.1087	1.0744	1.0916	7952.07	7976.07	1440.00	1571.83	38.0
120125	16-Jul-10	11:55	11:55	Fine	Normal Operation	2.7746	2.8321	0.0575	1.1331	1.1331	1.1331	7976.07	8000.07	1440.00	1631.66	35.2
120126	17-Jul-10	12:00	12:00	Fine	Normal Operation	2.7644	2.8241	0.0597	1.1037	1.1037	1.1037	8000.07	8024.07	1440.00	1589.33	37.6
															Average	33.8
															Max	47.4

Filter No.	Date	Time periods		Weather condition	Site condition	Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
		Start	Finish			Initial	Final		Initial	Final		Start	Finish			
															Min	14.6
															Action Level	152.0
															Limit Level	260.0

Details of 1-hour TSP Level monitoring at AM 7

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m ³)	Remarks
		No.	Set No.	Start	Finish						
Jul-10	31-Jul-10	AM7	1	9:12	10:12	Fine	Normal	30.0	754.0	78.5	
Jul-10	31-Jul-10	AM7	2	10:12	11:12	Fine	Normal	30.0	754.0	81.3	
Jul-10	31-Jul-10	AM7	3	11:12	12:12	Fine	Normal	30.0	754.0	79.2	
Aug-10	01-Aug-10	AM7	1	9:54	10:54	Fine	Normal	30.0	755.0	56.1	
Aug-10	01-Aug-10	AM7	2	10:54	11:54	Fine	Normal	30.0	755.0	46.0	
Aug-10	01-Aug-10	AM7	3	11:54	12:54	Fine	Normal	30.0	755.0	47.1	
Aug-10	02-Aug-10	AM7	1	9:20	10:20	Fine	Normal	29.0	754.0	54.5	
Aug-10	02-Aug-10	AM7	2	10:20	11:20	Fine	Normal	29.0	754.0	51.3	
Aug-10	02-Aug-10	AM7	3	11:20	12:20	Fine	Normal	29.0	754.0	52.3	
Aug-10	03-Aug-10	AM7	1	9:28	10:28	Fine	Normal	29.0	754.0	47.5	
Aug-10	03-Aug-10	AM7	2	10:28	11:28	Fine	Normal	29.0	754.0	49.8	
Aug-10	03-Aug-10	AM7	3	11:28	12:28	Fine	Normal	29.0	754.0	61.5	
Aug-10	04-Aug-10	AM7	1	9:28	10:28	Fine	Normal	30.0	755.0	89.3	
Aug-10	04-Aug-10	AM7	2	10:28	11:28	Fine	Normal	30.0	755.0	94.5	
Aug-10	04-Aug-10	AM7	3	11:28	12:28	Fine	Normal	30.0	755.0	95.7	
Aug-10	05-Aug-10	AM7	1	9:28	10:28	Fine	Normal	29.0	756.0	49.8	
Aug-10	05-Aug-10	AM7	2	10:28	11:28	Fine	Normal	29.0	756.0	53.2	

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m³)	Remarks
		No.	Set No.	Start	Finish						
Aug-10	05-Aug-10	AM7	3	11:28	12:28	Fine	Normal	29.0	756.0	54.7	
Aug-10	06-Aug-10	AM7	1	9:25	10:25	Fine	Normal	28.0	756.0	84.8	
Aug-10	06-Aug-10	AM7	2	10:25	11:25	Fine	Normal	28.0	756.0	83.8	
Aug-10	06-Aug-10	AM7	3	11:25	12:25	Fine	Normal	28.0	756.0	86.3	
Aug-10	07-Aug-10	AM7	1	13:14	14:14	Fine	Normal	29.0	756.0	57.3	
Aug-10	07-Aug-10	AM7	2	14:14	15:14	Fine	Normal	29.0	756.0	62.9	
Aug-10	07-Aug-10	AM7	3	15:14	16:14	Fine	Normal	29.0	756.0	84.3	
Aug-10	08-Aug-10	AM7	1	13:13	14:13	Fine	Normal	29.0	755.0	81.5	
Aug-10	08-Aug-10	AM7	2	14:13	15:13	Fine	Normal	29.0	755.0	84.7	
Aug-10	08-Aug-10	AM7	3	15:13	16:13	Fine	Normal	29.0	755.0	87.0	
Aug-10	09-Aug-10	AM7	1	13:39	14:39	Rainy	Normal	30.0	755.0	45.9	
Aug-10	09-Aug-10	AM7	2	14:39	15:39	Rainy	Normal	30.0	755.0	47.3	
Aug-10	09-Aug-10	AM7	3	15:39	16:39	Rainy	Normal	30.0	755.0	47.8	
Aug-10	10-Aug-10	AM7	1	13:31	14:31	Fine	Normal	30.0	755.0	83.0	
Aug-10	10-Aug-10	AM7	2	14:31	15:31	Fine	Normal	30.0	755.0	81.9	
Aug-10	10-Aug-10	AM7	3	15:31	16:31	Fine	Normal	30.0	755.0	82.1	
Aug-10	11-Aug-10	AM7	1	13:17	14:17	Fine	Normal	28.0	757.0	63.2	
Aug-10	11-Aug-10	AM7	2	14:17	15:17	Fine	Normal	28.0	757.0	66.5	
Aug-10	11-Aug-10	AM7	3	15:17	16:17	Fine	Normal	28.0	757.0	67.2	

Month	Date	Receptor		Time periods		Weather condition	Site condition	Temp. (°C)	Pressure (mmHg)	1-hour TSP Level (µg/m³)	Remarks
		No.	Set No.	Start	Finish						
Aug-10	12-Aug-10	AM7	1	13:24	14:24	Cloudy	Normal	29.0	758.0	58.2	
Aug-10	12-Aug-10	AM7	2	14:24	15:24	Cloudy	Normal	29.0	758.0	54.3	
Aug-10	12-Aug-10	AM7	3	15:24	16:24	Cloudy	Normal	29.0	758.0	54.0	
Aug-10	13-Aug-10	AM7	1	13:56	14:56	Cloudy	Normal	30.0	757.0	61.1	
Aug-10	13-Aug-10	AM7	2	14:56	15:56	Cloudy	Normal	30.0	757.0	61.7	
Aug-10	13-Aug-10	AM7	3	15:56	16:56	Cloudy	Normal	30.0	757.0	63.4	
									Average	66.5	
									Max	95.7	
									Min	45.9	
									Action Level	293.2	
									Limit Level	500.0	

Details of 24-hour TSP Level monitoring at AM 7

Filter No.	Date	Time periods		Filter Weight (g)		TSP weight (g)	Flow Rate (m ³ /min)		Average Flow Rate (m ³ /min)	Elapse Time		Sampling Time (mins.)	Total vol. (m ³)	24-hour TSP Level (µg/m ³)
		Start	Finish	Initial	Final		Initial	Final		Start	Finish			
120201	31-Jul-10	12:15	12:15	2.7984	2.8432	0.0448	1.2353	1.2365	1.2359	4776.04	4800.04	1440.00	1779.70	25.2
120202	01-Aug-10	12:20	12:20	2.7965	2.8477	0.0512	1.1981	1.2382	1.2182	4800.04	4824.04	1440.00	1754.14	29.2
120203	02-Aug-10	12:28	12:28	2.7919	2.8087	0.0168	1.2382	1.2382	1.2382	4824.04	4848.04	1440.00	1783.01	9.4
120204	03-Aug-10	12:40	12:40	2.7798	2.7994	0.0196	1.2382	1.2365	1.2374	4848.04	4872.04	1440.00	1781.78	11.0
120205	04-Aug-10	12:55	12:55	2.7728	2.8053	0.0325	1.2365	1.2405	1.2385	4872.04	4896.04	1440.00	1783.44	18.2
120206	05-Aug-10	13:00	13:00	2.7716	2.8101	0.0385	1.2021	1.2433	1.2227	4896.04	4920.04	1440.00	1760.69	21.9
120207	06-Aug-10	13:15	13:15	2.7819	2.9367	0.1548	1.2048	1.2405	1.2227	4920.04	4944.04	1440.00	1760.62	87.9
120208	07-Aug-10	16:24	16:24	2.7866	2.8912	0.1046	1.2405	1.2394	1.2400	4944.04	4968.04	1440.00	1785.53	58.6
120209	08-Aug-10	16:28	16:28	2.7778	2.8257	0.0479	1.2394	1.2365	1.2380	4968.04	4992.04	1440.00	1782.65	26.9
120210	09-Aug-10	16:30	16:30	2.7739	2.8232	0.0493	1.2365	1.2365	1.2365	4992.04	5016.04	1440.00	1780.56	27.7
120211	10-Aug-10	16:34	16:34	2.7746	2.8142	0.0396	1.2365	1.2060	1.2213	5016.04	5040.04	1440.00	1758.60	22.5
120212	11-Aug-10	16:38	16:38	2.7589	2.8217	0.0628	1.2445	1.2044	1.2245	5040.04	5064.04	1440.00	1763.21	35.6
120213	12-Aug-10	16:40	16:40	2.7655	2.8015	0.0360	1.2428	1.2388	1.2408	5064.04	5088.04	1440.00	1786.75	20.1
120214	13-Aug-10	16:55	16:55	2.7801	2.8382	0.0581	1.2004	1.2417	1.2211	5088.04	5112.04	1440.00	1758.31	33.0
													Average	30.5
													Max	87.9

Filter No.	Date	Time periods		Filter Weight (g)		TSP weight (g)	Flow Rate (m³/min)		Average Flow Rate (m³/min)	Elapse Time		Sampling Time (mins.)	Total vol. (m³)	24-hour TSP Level (µg/m³)
		Start	Finish	Initial	Final		Initial	Final		Start	Finish			
													Min	9.4
													Action Level	149.8
													Limit Level	260.0

Appendix B

Baseline noise monitoring data

Baseline Noise Monitoring Result

Location: CN 7 No. 372 Tai Kong Po Tsuen

Baseline monitoring period: 16/10/2010 to 29/10/2010

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	55.3	58.2	51.5
07:30-08:00	56.2	58.6	52.5
08:00-08:30	57.0	59.1	53.7
08:30-09:00	57.0	58.9	54.2
09:00-09:30	56.9	59.1	54.0
09:30-10:00	57.3	59.6	53.6
10:00-10:30	57.2	59.0	53.8
10:30-11:00	58.6	60.7	53.6
11:00-11:30	57.7	59.8	53.4
11:30-12:00	57.9	60.6	53.4
12:00-12:30	56.7	58.8	52.7
12:30-13:00	56.6	58.8	52.6
13:00-13:30	56.3	57.9	51.8
13:30-14:00	55.9	57.5	52.0
14:00-14:30	57.2	59.3	53.0
14:30-15:00	57.1	59.3	52.9
15:00-15:30	58.1	60.4	52.7
15:30-16:00	58.0	59.4	52.9
16:00-16:30	58.3	61.0	53.3
16:30-17:00	56.6	58.6	53.4
17:00-17:30	56.6	58.6	53.1
17:30-18:00	56.7	59.1	52.5
18:00-18:30	56.7	59.7	52.0
18:30-19:00	54.5	56.9	51.3
Average	57.0	59.2	53.0
Max	58.6	61.0	54.2
Min	54.5	56.9	51.3

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	53.4	55.0	51.3
	53.4	55.1	51.1
	54.1	56.0	51.5
19:15-19:30	54.4	57.3	51.2
	54.2	56.3	51.3
	53.8	55.7	51.6
19:30-19:45	53.9	55.6	51.7
	54.0	56.1	51.4
	53.8	55.9	51.3
19:45-20:00	53.9	55.6	51.7
	53.1	54.8	51.1
	53.5	55.2	51.2
20:00-20:15	53.6	55.1	51.6
	53.9	55.7	51.6
	54.3	56.6	51.5
20:15-20:30	53.2	54.9	51.4
	53.7	56.2	51.1
	52.7	54.3	50.9
20:30-20:45	53.0	54.5	51.3
	54.7	57.2	51.5
	53.5	55.4	51.3
20:45-21:00	53.4	55.7	51.1
	53.0	54.7	51.1
	53.3	55.1	51.1
21:00-21:15	53.4	55.4	51.0
	52.6	54.4	50.9
	52.6	54.1	50.9
21:15-21:30	53.6	55.5	51.4
	52.7	54.0	51.0
	52.4	53.6	50.9
21:30-21:45	52.3	53.8	50.7
	52.8	54.5	50.9

Time Slot	Leq, 5min	L10	L90
	53.0	54.9	51.0
21:45-22:00	52.2	53.7	50.7
	52.5	54.2	50.7
	52.1	53.5	50.6
22:00-22:15	52.9	54.8	50.8
	52.6	54.3	50.7
	52.4	53.9	50.8
22:15-22:30	52.3	53.7	50.7
	52.7	54.7	50.6
	52.8	54.8	50.4
22:30-22:45	52.8	54.6	50.7
	52.5	54.0	50.6
	53.0	55.1	50.4
22:45-23:00	52.7	54.6	50.6
	52.2	53.8	50.3
	52.6	54.7	50.4
Average	53.2	55.1	51.0
Max	54.7	57.3	51.7
Min	52.1	53.5	50.3

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	53.1	54.6	50.0
	53.0	55.0	50.2
	53.8	55.4	50.5
07:15-07:30	54.5	56.1	50.6
	54.5	56.3	51.0
	53.7	55.9	51.2
07:30-07:45	54.9	56.4	51.2
	53.6	55.7	50.9
	53.9	56.0	51.0
07:45-08:00	54.7	57.1	51.6
	54.6	56.6	51.3
	55.2	57.3	52.0

Time Slot	Leq, 5min	L10	L90
08:00-08:15	54.0	56.2	51.4
	54.8	57.0	52.1
	55.6	57.7	52.8
08:15-08:30	55.5	57.4	53.0
	55.9	58.2	53.1
	55.6	57.5	52.7
08:30-08:45	55.4	57.1	53.1
	55.7	57.5	53.3
	55.0	56.7	52.9
08:45-09:00	56.7	59.2	53.2
	57.6	59.6	53.5
	55.8	57.6	53.3
09:00-09:15	55.6	57.5	53.2
	56.4	58.2	53.7
	56.2	57.7	53.0
09:15-09:30	55.2	57.0	52.8
	56.5	58.4	53.6
	56.1	57.8	53.7
09:30-09:45	55.6	57.5	53.0
	59.2	63.6	52.9
	56.2	58.1	53.1
09:45-10:00	56.1	57.7	53.2
	55.6	57.4	52.9
	54.9	56.5	52.6
10:00-10:15	55.3	57.2	53.0
	55.1	56.9	52.7
	56.7	58.3	53.0
10:15-10:30	57.9	60.7	53.4
	56.3	58.5	53.2
	56.2	58.0	53.5
10:30-10:45	55.6	57.8	53.0
	56.3	57.7	53.4
	57.0	59.2	54.2
10:45-11:00	56.7	58.3	53.7
	56.2	57.9	53.7
	56.0	57.6	53.8

Time Slot	Leq, 5min	L10	L90
11:00-11:15	56.5	58.3	53.8
	55.7	58.3	52.7
	56.1	58.0	53.1
11:15-11:30	56.6	58.3	53.9
	57.1	58.5	54.4
	57.5	59.1	54.2
11:30-11:45	55.8	57.6	53.3
	56.7	58.6	53.9
	56.0	57.9	53.2
11:45-12:00	55.4	57.2	53.1
	55.8	57.7	53.2
	55.3	57.2	52.7
12:00-12:15	56.2	58.4	52.5
	54.6	56.4	52.2
	54.6	56.3	52.3
12:15-12:30	55.0	56.7	52.7
	54.7	56.4	52.5
	57.9	61.6	53.2
12:30-12:45	54.4	56.1	52.1
	55.7	58.4	52.6
	55.9	58.3	52.4
12:45-13:00	54.0	55.6	52.1
	54.5	55.9	51.9
	53.9	55.7	51.3
13:00-13:15	54.5	56.6	51.4
	53.7	55.3	51.6
	53.4	54.9	51.8
13:15-13:30	53.9	55.7	51.9
	54.1	56.0	51.9
	53.9	55.5	51.9
13:30-13:45	54.8	56.4	52.3
	60.0	60.9	51.7
	54.8	56.6	51.6
13:45-14:00	56.8	59.9	52.4
	54.7	56.7	52.8
	54.1	56.0	51.7

Time Slot	Leq, 5min	L10	L90
14:00-14:15	55.0	56.6	52.3
	54.2	56.1	51.8
	55.9	58.6	52.4
14:15-14:30	56.7	58.5	52.8
	55.1	56.7	52.9
	55.4	57.3	53.0
14:30-14:45	54.7	56.7	51.9
	55.0	56.8	52.5
	54.9	56.5	52.6
14:45-15:00	54.6	56.6	52.4
	56.0	58.2	53.1
	55.1	57.2	52.5
15:00-15:15	54.0	55.4	52.2
	54.4	56.5	51.8
	55.5	57.9	52.2
15:15-15:30	56.2	58.9	52.7
	56.8	59.9	52.9
	55.2	57.8	52.3
15:30-15:45	55.8	57.8	52.5
	55.8	57.7	52.6
	54.5	56.3	52.3
15:45-16:00	55.0	57.0	52.3
	56.0	57.9	53.2
	54.5	56.1	51.5
16:00-16:15	54.3	56.1	51.6
	55.8	57.8	51.7
	57.4	59.5	53.2
16:15-16:30	55.0	56.3	52.3
	55.1	57.1	52.5
	54.8	56.3	52.7
16:30-16:45	56.8	58.9	53.8
	55.9	57.9	52.9
	55.0	56.6	52.8
16:45-17:00	55.6	57.6	53.0
	55.7	57.5	52.9
	55.3	57.2	52.4

Time Slot	Leq, 5min	L10	L90
17:00-17:15	55.4	57.4	52.9
	55.7	57.2	52.8
	55.6	57.2	52.8
17:15-17:30	61.2	62.8	52.7
	60.7	61.6	52.5
	61.7	64.6	53.0
17:30-17:45	57.4	59.8	52.5
	57.0	59.6	52.3
	56.1	59.2	51.6
17:45-18:00	61.8	66.9	52.4
	55.1	57.2	51.3
	54.0	55.6	51.3
18:00-18:15	53.7	55.5	51.3
	55.0	56.3	51.8
	55.2	57.5	52.3
18:15-18:30	53.7	55.8	51.0
	53.5	54.6	50.9
	53.3	55.1	51.2
18:30-18:45	53.3	54.4	51.0
	53.0	55.1	50.6
	52.8	54.6	50.8
18:45-19:00	53.4	55.3	50.7
	52.6	54.2	50.7
	53.6	55.0	51.6
19:00-19:15	54.1	55.5	51.5
	53.1	54.5	51.2
	53.1	54.5	51.2
19:15-19:30	53.6	54.9	51.5
	53.2	54.8	51.1
	53.3	54.9	51.3
19:30-19:45	53.5	55.0	51.5
	53.4	54.7	51.2
	52.1	53.4	50.7
19:45-20:00	52.7	54.3	51.0
	53.8	55.8	51.5
	53.7	55.2	51.9

Time Slot	Leq, 5min	L10	L90
20:00-20:15	53.1	54.4	51.5
	53.6	55.1	51.8
	53.9	55.9	51.6
20:15-20:30	53.8	55.6	51.8
	53.1	54.6	51.3
	53.0	54.5	51.2
20:30-20:45	52.9	54.2	51.1
	53.1	54.9	51.3
	52.8	54.5	51.1
20:45-21:00	52.9	54.6	51.2
	53.1	55.0	51.1
	52.8	54.8	50.8
21:00-21:15	52.7	54.0	50.8
	52.2	53.2	51.0
	52.3	53.4	51.1
21:15-21:30	52.3	53.5	50.8
	53.2	54.0	51.1
	52.7	53.9	51.2
21:30-21:45	52.4	53.9	50.7
	53.5	55.3	51.3
	53.1	54.7	51.4
21:45-22:00	53.2	55.3	50.9
	53.0	54.7	51.3
	52.6	54.2	51.0
22:00-22:15	52.6	53.9	51.1
	52.9	54.7	50.7
	52.9	54.5	50.7
22:15-22:30	53.3	55.2	51.2
	52.2	53.5	50.5
	52.8	54.7	51.0
22:30-22:45	52.3	54.0	50.6
	52.6	54.3	50.7
	52.2	53.7	50.7
22:45-23:00	52.0	53.2	50.5
	51.9	53.3	50.4
	51.9	53.7	50.1

Time Slot	Leq, 5min	L10	L90
Average	55.3	57.3	52.2
Max	61.8	66.9	54.4
Min	51.9	53.2	50.0

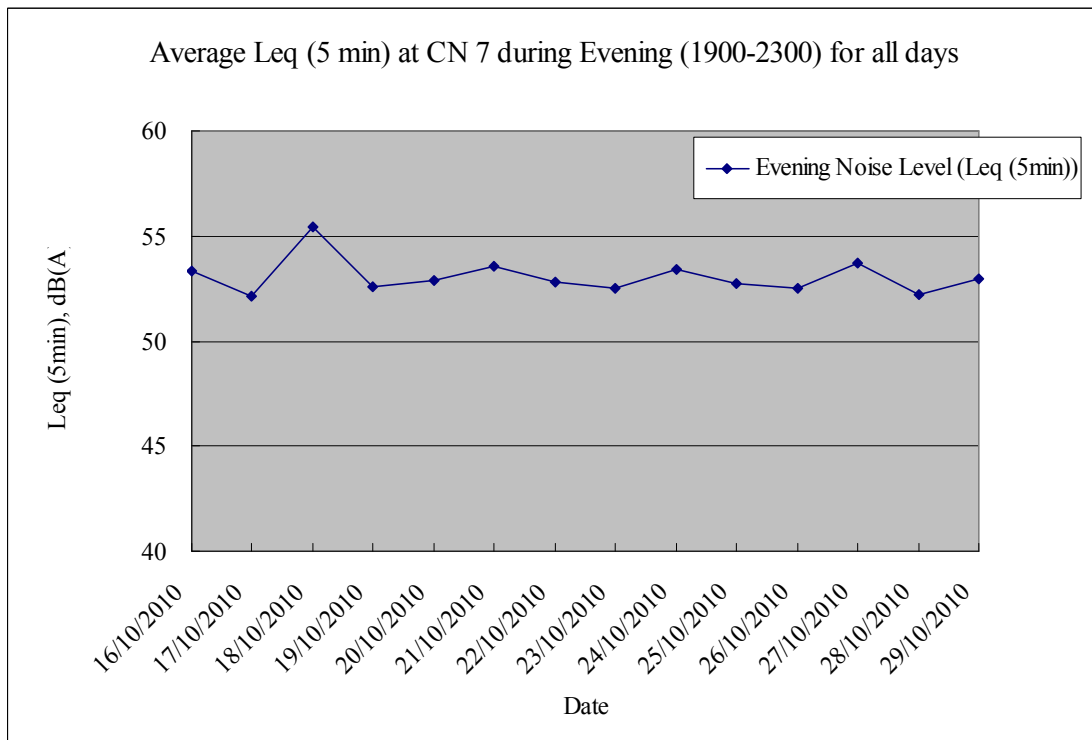
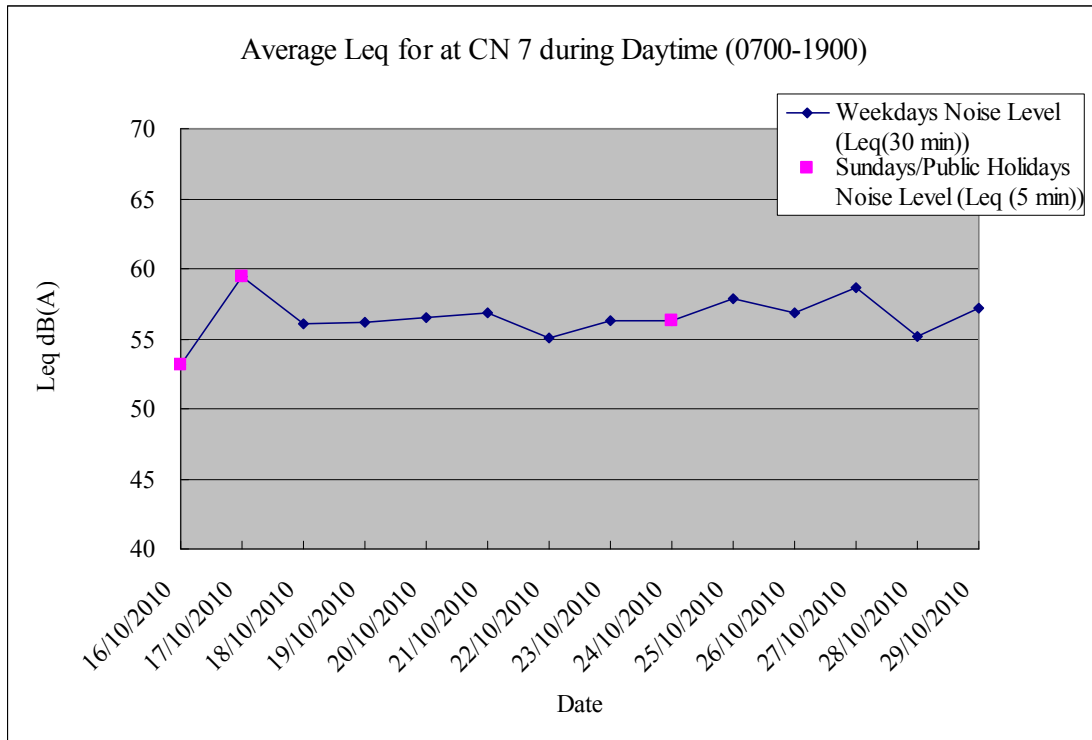
4) Night-time (for all days) Noise Level, dB(A)

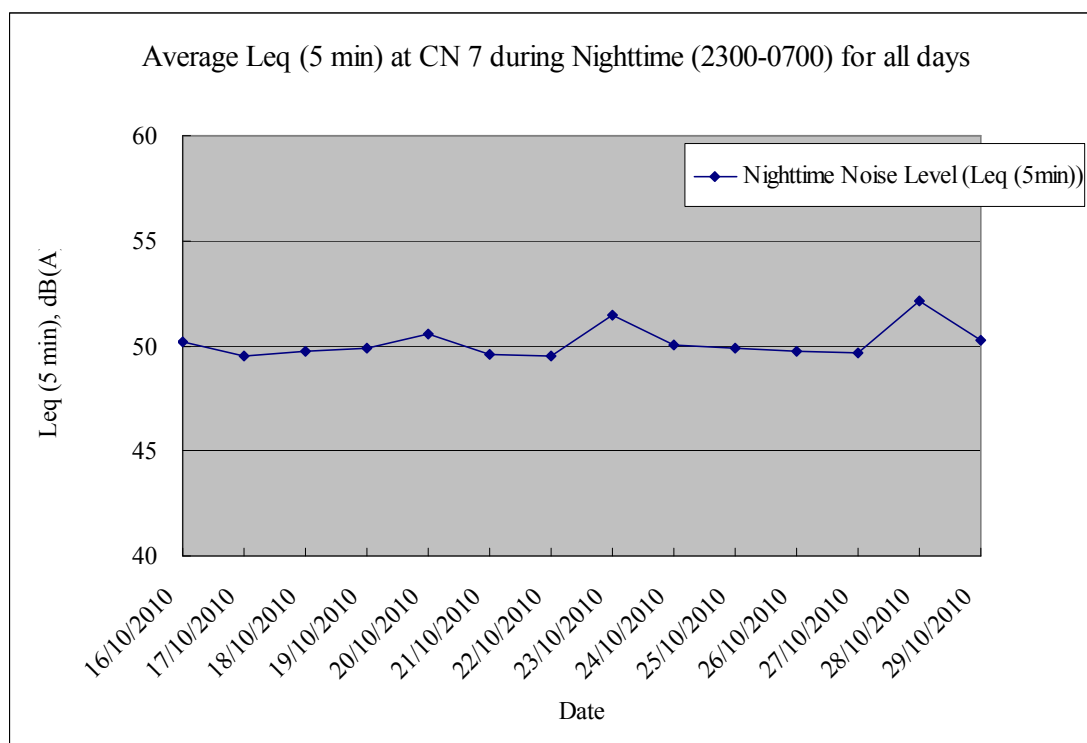
Time Slot	Leq, 5min	L10	L90
23:00-23:15	51.8	53.1	50.4
	52.3	53.9	50.5
	52.2	53.9	50.5
23:15-23:30	51.8	53.1	50.4
	52.4	53.9	50.6
	52.1	53.5	50.6
23:30-23:45	51.8	53.1	50.3
	51.7	53.1	50.2
	51.6	52.9	50.2
23:45-00:00	51.3	52.4	50.1
	51.3	52.6	49.9
	51.3	52.6	49.9
00:00-00:15	51.3	52.8	50.0
	51.5	52.9	50.1
	51.7	53.2	50.1
00:15-00:30	51.7	53.2	50.1
	52.2	53.4	50.0
	51.6	53.0	50.0
00:30-00:45	51.2	52.4	49.8
	51.2	52.3	49.8
	51.7	53.5	49.8
00:45:01:00	51.0	52.2	49.8
	50.9	52.0	49.9
	50.9	52.2	49.7
01:00-01:15	51.1	52.4	49.7
	50.8	52.1	49.6
	51.4	53.0	49.7
01:15-01:30	51.1	52.5	49.6
	51.0	52.4	49.6

Time Slot	Leq, 5min	L10	L90
	50.9	52.3	49.5
01:30-01:45	50.4	51.6	49.3
	50.3	51.4	49.1
	50.4	51.6	49.2
01:45-02:00	50.2	51.5	49.0
	50.0	51.2	48.9
	50.0	51.2	48.9
02:00-02:15	49.8	50.7	48.8
	50.5	51.7	49.0
	50.6	52.0	49.0
02:15-02:30	50.0	51.0	49.0
	50.2	51.3	48.9
	50.1	51.2	48.9
02:30-02:45	50.7	51.9	48.8
	49.9	51.0	48.7
	49.7	50.7	48.7
02:45-03:00	50.0	51.2	48.7
	49.9	50.9	48.8
	49.9	51.2	48.8
03:00-03:15	50.8	53.9	48.8
	51.7	55.0	48.8
	50.8	52.4	49.0
03:15-03:30	50.1	51.3	48.9
	50.5	51.8	49.2
	50.3	51.5	48.9
03:30-03:45	50.7	52.7	48.7
	50.0	51.5	48.8
	50.8	52.5	48.8
03:45-04:00	51.0	52.9	49.0
	50.3	52.0	48.7
	49.8	51.0	48.6
04:00-04:15	49.9	51.0	48.5
	49.8	50.9	48.6
	49.6	50.6	48.6
04:15-04:30	50.0	51.3	48.7
	49.5	50.7	48.4

Time Slot	Leq, 5min	L10	L90
	50.1	51.9	48.5
04:30-04:45	51.7	55.0	48.5
	49.8	51.1	48.5
	49.5	50.8	48.5
04:45-05:00	49.8	51.2	48.4
	49.6	50.7	48.4
	49.3	50.2	48.4
05:00-05:15	50.0	51.7	48.6
	50.7	52.6	48.5
	52.9	54.8	51.1
05:15-05:30	50.5	51.8	48.9
	50.2	51.6	48.6
	50.0	51.4	48.6
05:30-05:45	50.4	52.1	48.7
	49.9	51.2	48.6
	50.4	52.2	48.8
05:45-06:00	51.4	53.4	49.2
	50.7	52.1	49.0
	50.5	51.6	49.0
06:00-06:15	51.5	52.9	49.1
	51.3	52.8	49.3
	51.7	53.2	49.3
06:15-06:30	52.7	54.1	49.8
	52.7	54.5	49.9
	53.6	55.4	50.4
06:30-06:45	53.3	55.3	50.4
	53.2	55.5	50.2
	55.0	57.7	50.4
06:45-07:00	58.0	60.7	53.0
	55.6	58.7	50.8
	53.9	56.6	50.6
Average	51.3	53.0	49.5
Max	58.0	60.7	53.0
Min	49.3	50.2	48.4

Log average was used.





Baseline Noise Monitoring Result

Location: CN 8 DD110 LOT 482, Wang Toi Shan

Baseline monitoring period: 3/10/2010 to 16/10/2010

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	55.1	57.9	51.7
07:30-08:00	55.7	58.0	52.6
08:00-08:30	57.2	59.3	54.1
08:30-09:00	57.3	59.3	54.5
09:00-09:30	57.1	59.2	54.3
09:30-10:00	57.4	59.8	54.0
10:00-10:30	57.6	59.6	54.4
10:30-11:00	58.4	60.6	54.2
11:00-11:30	57.6	59.4	54.1
11:30-12:00	57.4	59.7	53.8
12:00-12:30	56.3	58.3	53.0
12:30-13:00	55.8	57.8	52.8
13:00-13:30	55.1	57.2	52.2
13:30-14:00	55.8	57.5	52.5
14:00-14:30	56.7	58.8	53.7
14:30-15:00	56.6	58.5	53.5
15:00-15:30	57.2	59.4	53.4
15:30-16:00	56.7	58.7	53.5
16:00-16:30	58.4	61.0	53.7
16:30-17:00	56.8	58.6	53.8
17:00-17:30	57.9	59.9	53.5
17:30-18:00	57.5	60.5	52.7
18:00-18:30	56.8	59.8	52.1
18:30-19:00	54.6	57.0	51.4
Average	56.9	59.1	53.4
Max	58.4	61.0	54.5
Min	54.6	57.0	51.4

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	53.5	55.1	51.3
	53.4	55.1	51.1
	56.5	58.4	51.6
19:15-19:30	54.6	57.4	51.4
	54.2	56.4	51.4
	53.9	55.8	51.7
19:30-19:45	53.6	55.3	51.6
	54.0	56.1	51.4
	53.7	55.8	51.3
19:45-20:00	53.8	55.5	51.6
	53.4	55.3	51.3
	53.6	55.3	51.4
20:00-20:15	53.7	55.2	51.7
	53.9	55.6	51.7
	54.3	56.6	51.6
20:15-20:30	53.3	55.0	51.4
	53.9	56.4	51.4
	52.9	54.5	51.0
20:30-20:45	53.1	54.6	51.3
	54.6	57.1	51.5
	53.6	55.5	51.3
20:45-21:00	53.5	55.8	51.2
	53.1	54.8	51.1
	53.2	55.1	51.1
21:00-21:15	53.3	55.3	50.9
	52.5	54.1	50.9
	52.6	54.1	50.9
21:15-21:30	53.6	55.5	51.4
	52.8	54.1	51.1
	52.2	53.5	50.8
21:30-21:45	52.3	53.9	50.7
	52.7	54.4	50.9

Time Slot	Leq, 5min	L10	L90
	52.9	54.7	51.0
21:45-22:00	52.5	54.2	50.7
	52.6	54.4	50.8
	52.1	53.5	50.6
22:00-22:15	52.8	54.5	50.8
	52.6	54.5	50.7
	52.4	54.0	50.7
22:15-22:30	52.3	53.7	50.6
	52.7	54.7	50.5
	52.9	54.9	50.4
22:30-22:45	52.7	54.6	50.7
	52.3	53.8	50.5
	53.1	55.2	50.5
22:45-23:00	52.7	54.6	50.6
	52.2	53.9	50.2
	52.4	54.4	50.3
Average	53.3	55.2	51.1
Max	56.5	58.4	51.7
Min	52.1	53.5	50.2

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	53.9	55.0	49.9
	56.2	60.6	49.7
	52.6	54.3	50.0
07:15-07:30	53.6	54.8	50.0
	56.8	59.9	50.0
	53.7	55.5	50.4
07:30-07:45	54.8	55.9	50.1
	56.1	57.8	50.3
	55.0	56.0	50.2
07:45-08:00	58.1	61.6	50.8
	57.4	60.6	50.6
	56.0	59.3	50.4

Time Slot	Leq, 5min	L10	L90
08:00-08:15	54.3	57.5	50.4
	54.5	55.7	50.5
	53.1	55.0	50.6
08:15-08:30	52.9	54.3	50.9
	54.1	56.9	50.6
	53.4	55.2	50.8
08:30-08:45	53.9	55.9	51.0
	54.4	56.7	50.8
	53.7	54.8	51.1
08:45-09:00	53.5	55.1	50.7
	53.6	55.8	50.9
	54.4	56.8	51.1
09:00-09:15	53.8	55.6	51.5
	54.4	56.2	51.7
	52.3	53.8	50.7
09:15-09:30	55.8	58.5	51.4
	54.8	57.4	51.2
	55.1	57.6	51.5
09:30-09:45	54.6	56.8	52.0
	54.7	57.0	51.4
	54.1	56.2	51.3
09:45-10:00	55.4	57.8	52.1
	54.8	57.1	51.8
	54.0	56.5	50.9
10:00-10:15	54.0	56.2	51.4
	54.2	56.2	51.5
	53.7	56.0	51.0
10:15-10:30	53.8	55.7	51.3
	54.5	56.7	51.9
	53.9	55.5	51.4
10:30-10:45	53.7	55.3	51.8
	53.0	54.3	51.6
	53.7	55.8	51.4
10:45-11:00	54.3	56.5	51.5
	54.5	56.1	51.9
	54.6	56.4	51.6

Time Slot	Leq, 5min	L10	L90
11:00-11:15	56.0	59.3	51.8
	54.6	56.8	51.1
	54.6	56.7	51.6
11:15-11:30	54.3	56.3	51.3
	58.8	62.7	52.3
	54.2	56.1	51.7
11:30-11:45	53.9	55.7	51.5
	54.1	56.0	51.3
	54.9	57.5	51.6
11:45-12:00	54.5	56.5	51.8
	56.6	59.4	52.7
	57.0	59.0	52.3
12:00-12:15	57.6	59.7	54.3
	53.5	55.2	51.0
	53.5	55.4	51.5
12:15-12:30	53.3	54.9	51.2
	54.1	56.9	50.8
	56.4	60.2	50.8
12:30-12:45	53.7	56.0	51.0
	56.5	60.1	51.3
	55.5	57.9	51.6
12:45-13:00	53.2	54.8	50.7
	54.5	57.2	50.9
	56.7	59.1	51.9
13:00-13:15	54.1	56.5	51.0
	54.3	56.8	50.7
	53.5	55.4	50.9
13:15-13:30	55.5	58.5	51.6
	54.8	57.0	51.4
	55.0	57.4	51.5
13:30-13:45	56.0	59.4	52.0
	54.2	56.8	50.8
	54.2	56.7	51.4
13:45-14:00	53.8	55.3	51.1
	53.1	54.8	51.0
	53.9	56.6	51.0

Time Slot	Leq, 5min	L10	L90
14:00-14:15	53.5	55.7	50.9
	54.9	57.2	51.3
	55.0	58.2	50.7
14:15-14:30	56.4	59.8	51.2
	54.2	57.4	50.6
	54.0	55.8	51.0
14:30-14:45	53.8	55.9	51.1
	53.7	55.6	51.3
	54.8	57.0	51.1
14:45-15:00	54.3	56.7	51.3
	54.1	56.0	51.5
	54.4	56.1	52.0
15:00-15:15	53.3	55.2	51.0
	53.4	55.1	51.2
	54.7	57.6	51.0
15:15-15:30	53.4	55.4	51.0
	55.2	58.6	51.3
	55.1	57.9	51.0
15:30-15:45	54.6	57.4	50.9
	55.6	57.4	51.1
	55.9	58.9	51.4
15:45-16:00	55.8	59.0	51.3
	54.6	56.8	51.2
	55.0	57.0	51.7
16:00-16:15	55.3	57.2	52.1
	55.9	57.7	51.8
	54.7	56.8	51.3
16:15-16:30	55.6	57.7	51.5
	55.6	58.0	51.3
	54.7	56.6	51.5
16:30-16:45	55.1	57.6	51.1
	54.5	56.6	51.5
	54.8	56.2	51.5
16:45-17:00	55.5	58.4	51.2
	55.1	58.5	51.4
	54.1	55.9	51.1

Time Slot	Leq, 5min	L10	L90
17:00-17:15	53.6	55.5	51.1
	53.9	56.0	51.3
	54.1	56.3	50.8
17:15-17:30	53.1	54.7	51.0
	54.7	57.0	51.4
	54.7	56.7	51.7
17:30-17:45	53.3	54.9	50.7
	53.4	54.9	50.9
	53.5	55.3	51.1
17:45-18:00	53.5	55.1	50.9
	53.4	55.1	50.4
	53.8	55.5	51.6
18:00-18:15	54.6	56.4	51.8
	54.1	55.6	51.8
	53.1	54.1	51.0
18:15-18:30	52.1	53.6	50.2
	52.3	54.1	50.3
	52.9	54.7	50.8
18:30-18:45	52.9	54.6	50.8
	51.7	53.0	50.2
	52.1	53.5	50.6
18:45-19:00	52.2	53.9	50.2
	52.1	53.6	50.4
	53.6	55.8	51.0
19:00-19:15	53.3	54.7	51.1
	53.0	54.6	51.0
	52.5	53.8	50.8
19:15-19:30	52.6	54.0	51.0
	52.9	54.6	50.8
	52.7	54.2	51.1
19:30-19:45	54.3	56.1	51.8
	53.0	54.8	51.2
	52.6	54.4	50.7
19:45-20:00	53.2	54.9	51.2
	52.4	53.8	50.8
	53.3	54.8	51.3

Time Slot	Leq, 5min	L10	L90
20:00-20:15	52.5	53.9	50.9
	53.6	55.2	51.4
	53.7	55.7	51.3
20:15-20:30	53.7	55.3	51.8
	52.2	53.6	50.5
	52.3	53.6	50.7
20:30-20:45	52.5	53.7	50.9
	52.9	54.5	51.0
	52.7	54.2	51.1
20:45-21:00	52.6	54.1	50.8
	52.9	54.4	51.0
	53.0	54.8	50.9
21:00-21:15	52.9	54.6	51.0
	52.6	54.3	50.9
	52.3	53.6	50.8
21:15-21:30	52.3	53.6	50.7
	53.0	53.8	51.0
	53.0	54.4	51.5
21:30-21:45	52.2	53.6	50.6
	53.6	55.5	51.3
	53.5	55.2	51.6
21:45-22:00	52.3	53.7	51.0
	52.6	53.9	51.1
	52.8	54.2	50.9
22:00-22:15	52.9	54.7	51.0
	52.7	54.2	51.0
	52.9	54.4	50.9
22:15-22:30	53.3	55.1	51.3
	52.2	53.5	50.8
	52.5	54.4	51.0
22:30-22:45	52.5	54.2	50.7
	53.1	54.9	51.0
	52.0	53.5	50.3
22:45-23:00	51.9	53.3	50.3
	51.9	53.1	50.5
	52.7	54.6	50.5

Time Slot	Leq, 5min	L10	L90
Average	54.2	56.4	51.2
Max	58.8	62.7	54.3
Min	51.7	53.0	49.7

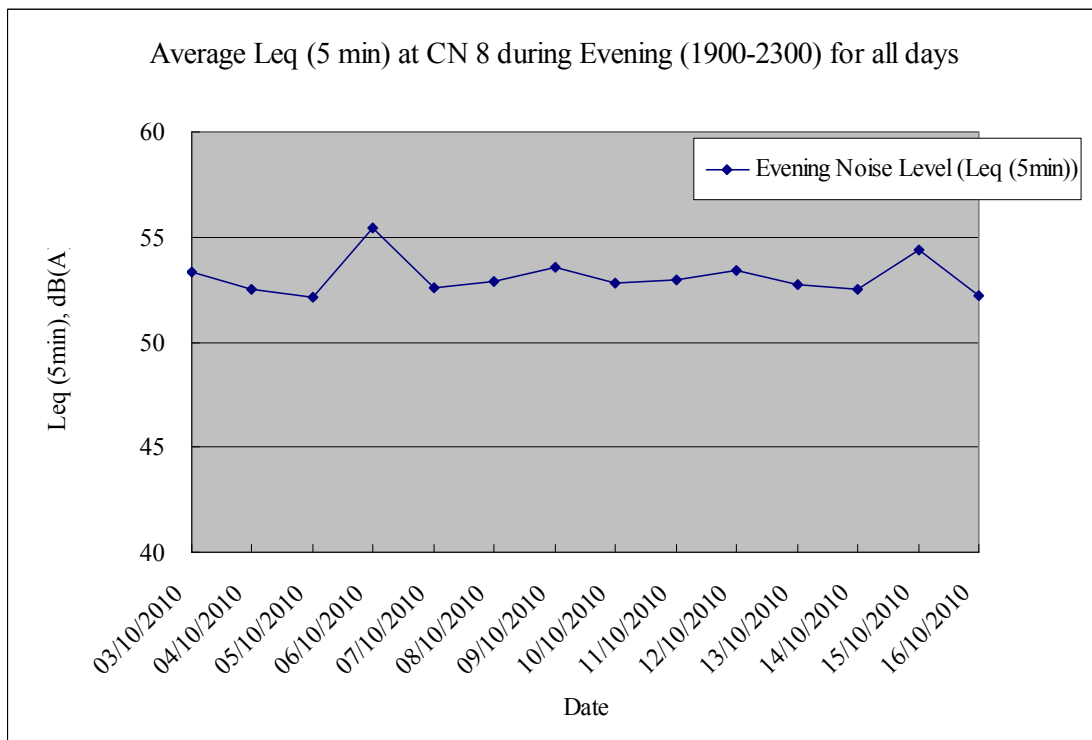
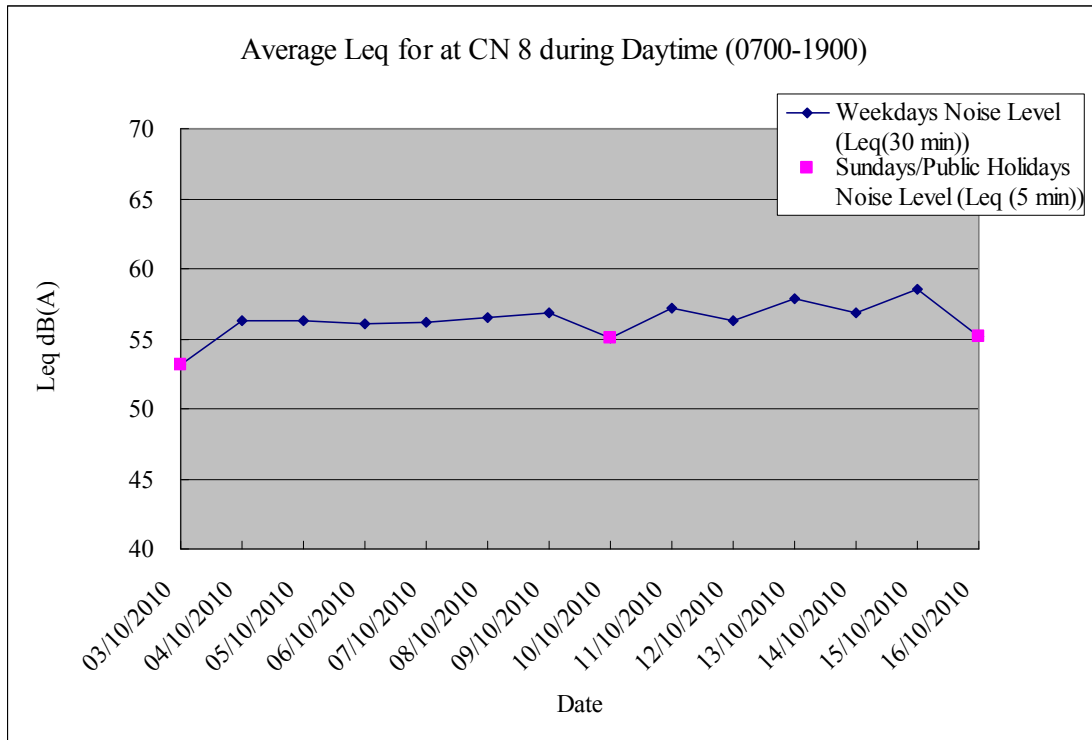
4) Night-time (for all days) Noise Level, dB(A)

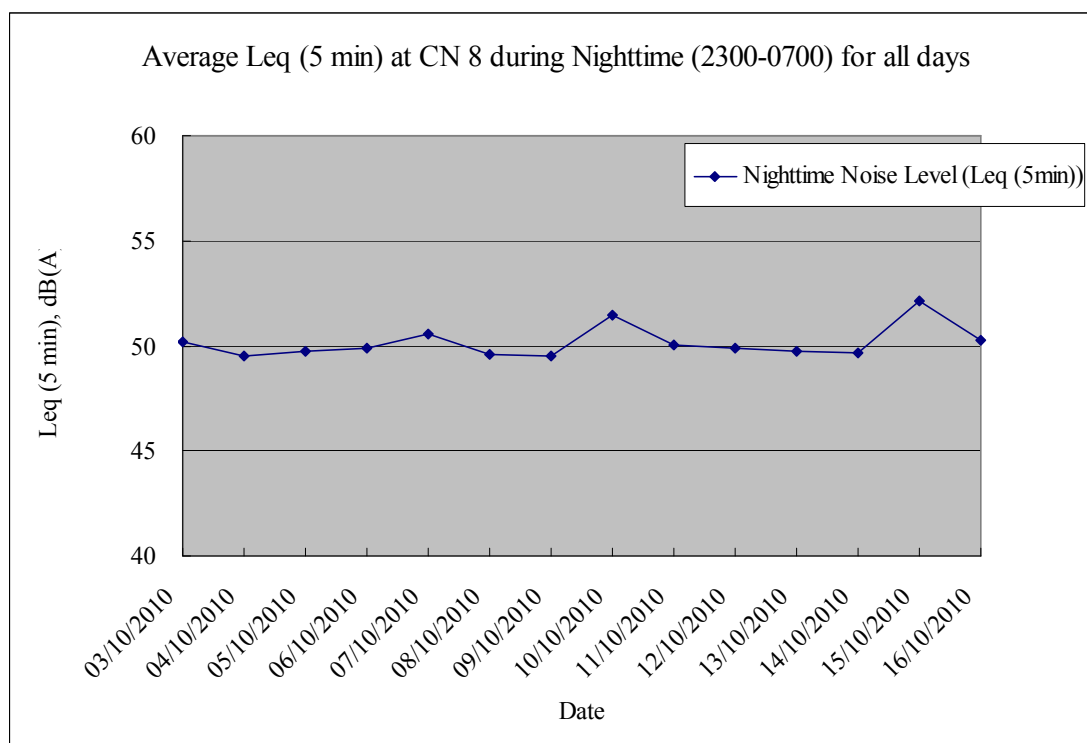
Time Slot	Leq, 5min	L10	L90
23:00-23:15	51.8	53.1	50.4
	52.3	53.9	50.5
	52.2	53.9	50.5
23:15-23:30	51.8	53.1	50.4
	52.4	53.9	50.6
	52.1	53.5	50.6
23:30-23:45	51.8	53.1	50.3
	51.7	53.1	50.2
	51.6	52.9	50.2
23:45-00:00	51.3	52.4	50.1
	51.3	52.6	49.9
	51.3	52.6	49.9
00:00-00:15	51.3	52.8	50.0
	51.5	52.9	50.1
	51.7	53.2	50.1
00:15-00:30	51.7	53.2	50.1
	52.2	53.4	50.0
	51.6	53.0	50.0
00:30-00:45	51.2	52.4	49.8
	51.2	52.3	49.8
	51.7	53.5	49.8
00:45:01:00	51.0	52.2	49.8
	50.9	52.0	49.9
	50.9	52.2	49.7
01:00-01:15	51.1	52.4	49.7
	50.8	52.1	49.6
	51.4	53.0	49.7
01:15-01:30	51.1	52.5	49.6
	51.0	52.4	49.6

Time Slot	Leq, 5min	L10	L90
	50.9	52.3	49.5
01:30-01:45	50.4	51.6	49.3
	50.3	51.4	49.1
	50.4	51.6	49.2
01:45-02:00	50.2	51.5	49.0
	50.0	51.2	48.9
	50.0	51.2	48.9
02:00-02:15	49.8	50.7	48.8
	50.5	51.7	49.0
	50.6	52.0	49.0
02:15-02:30	50.0	51.0	49.0
	50.2	51.3	48.9
	50.1	51.2	48.9
02:30-02:45	50.7	51.9	48.8
	49.9	51.0	48.7
	49.7	50.7	48.7
02:45-03:00	50.0	51.2	48.7
	49.9	50.9	48.8
	49.9	51.2	48.8
03:00-03:15	50.8	53.9	48.8
	51.7	55.0	48.8
	50.8	52.4	49.0
03:15-03:30	50.1	51.3	48.9
	50.5	51.8	49.2
	50.3	51.5	48.9
03:30-03:45	50.7	52.7	48.7
	50.0	51.5	48.8
	50.8	52.5	48.8
03:45-04:00	51.0	52.9	49.0
	50.3	52.0	48.7
	49.8	51.0	48.6
04:00-04:15	49.9	51.0	48.5
	49.8	50.9	48.6
	49.6	50.6	48.6
04:15-04:30	50.0	51.3	48.7
	49.5	50.7	48.4

Time Slot	Leq, 5min	L10	L90
	50.1	51.9	48.5
04:30-04:45	51.7	55.0	48.5
	49.8	51.1	48.5
	49.5	50.8	48.5
04:45-05:00	49.8	51.2	48.4
	49.6	50.7	48.4
	49.3	50.2	48.4
05:00-05:15	50.0	51.7	48.6
	50.7	52.6	48.5
	52.9	54.8	51.1
05:15-05:30	50.5	51.8	48.9
	50.2	51.6	48.6
	50.0	51.4	48.6
05:30-05:45	50.4	52.1	48.7
	49.9	51.2	48.6
	50.4	52.2	48.8
05:45-06:00	51.4	53.4	49.2
	50.7	52.1	49.0
	50.5	51.6	49.0
06:00-06:15	51.5	52.9	49.1
	51.3	52.8	49.3
	51.7	53.2	49.3
06:15-06:30	52.7	54.1	49.8
	52.7	54.5	49.9
	53.6	55.4	50.4
06:30-06:45	53.3	55.3	50.4
	53.2	55.5	50.2
	55.0	57.7	50.4
06:45-07:00	58.0	60.7	53.0
	55.6	58.7	50.8
	53.9	56.6	50.6
Average	51.3	53.0	49.5
Max	58.0	60.7	53.0
Min	49.3	50.2	48.4

Log average was used.





Baseline Noise Monitoring Result

Location: CN 9 Leung Uk Tsuen Village House

Baseline monitoring period: 15/10/2010 to 28/10/2010

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	55.0	57.7	48.8
07:30-08:00	57.0	59.6	50.7
08:00-08:30	58.2	60.4	52.5
08:30-09:00	59.8	62.5	54.6
09:00-09:30	61.1	63.6	56.6
09:30-10:00	58.7	61.2	53.5
10:00-10:30	61.0	63.5	54.8
10:30-11:00	60.1	63.3	53.6
11:00-11:30	61.2	63.7	55.6
11:30-12:00	60.7	63.2	55.0
12:00-12:30	60.5	63.2	54.0
12:30-13:00	60.0	62.3	52.3
13:00-13:30	57.9	60.7	50.8
13:30-14:00	58.5	60.8	52.1
14:00-14:30	58.9	61.6	53.0
14:30-15:00	60.8	63.9	53.5
15:00-15:30	60.7	63.5	53.5
15:30-16:00	59.9	62.4	53.8
16:00-16:30	61.0	63.5	55.3
16:30-17:00	60.0	62.5	53.2
17:00-17:30	58.8	61.6	52.5
17:30-18:00	59.3	61.7	52.8
18:00-18:30	58.1	60.7	51.9
18:30-19:00	57.5	59.9	50.0
Average	59.6	62.2	53.5
Max	61.2	63.9	56.6
Min	55.0	57.7	48.8

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	55.2	57.8	48.9
	55.3	58.1	48.8
	55.3	58.3	49.1
19:15-19:30	56.7	59.6	49.2
	54.6	57.4	48.4
	56.3	59.1	48.9
19:30-19:45	54.8	57.7	48.9
	54.9	58.0	48.7
	54.6	57.6	48.2
19:45-20:00	54.2	57.1	48.3
	53.6	56.2	48.2
	54.1	56.9	48.2
20:00-20:15	54.4	57.2	48.2
	53.5	56.4	48.2
	54.1	57.5	48.3
20:15-20:30	54.0	56.9	47.9
	53.5	56.5	47.4
	54.3	57.2	47.6
20:30-20:45	53.4	56.4	47.5
	53.8	56.8	47.7
	53.3	56.2	47.3
20:45-21:00	53.3	56.3	47.2
	53.5	56.7	46.9
	54.0	57.1	47.0
21:00-21:15	53.6	56.3	48.6
	53.3	55.7	49.1
	53.3	56.2	46.7
21:15-21:30	52.5	55.4	47.1
	54.4	56.5	47.4
	53.1	56.1	46.9
21:30-21:45	52.2	55.0	46.6
	52.6	55.6	46.2

Time Slot	Leq, 5min	L10	L90
	52.8	55.6	46.6
21:45-22:00	53.4	56.5	46.8
	52.5	55.4	46.6
	52.6	55.4	46.7
22:00-22:15	52.9	55.9	45.9
	53.4	56.4	46.5
	53.1	55.9	47.5
22:15-22:30	53.6	56.5	46.6
	52.5	55.4	46.4
	53.4	56.1	46.7
22:30-22:45	53.0	56.1	46.4
	52.3	55.2	46.6
	52.5	55.5	45.9
22:45-23:00	53.2	55.6	46.2
	53.8	56.4	46.3
	53.6	56.6	46.0
Average	53.8	56.7	47.6
Max	56.7	59.6	49.2
Min	52.2	55.0	45.9

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	53.8	57.5	43.5
	50.5	53.3	41.5
	50.5	53.4	42.3
07:15-07:30	51.0	54.8	41.8
	53.4	56.7	42.9
	54.7	57.8	43.9
07:30-07:45	52.2	55.9	43.2
	52.7	55.9	43.7
	53.3	56.9	44.7
07:45-08:00	52.9	56.3	44.7
	53.9	56.2	43.4
	53.9	57.2	44.6

Time Slot	Leq, 5min	L10	L90
08:00-08:15	57.0	58.4	45.3
	54.2	57.0	44.9
	53.1	56.3	45.8
08:15-08:30	55.1	57.9	47.6
	53.7	56.4	46.4
	55.3	58.6	48.9
08:30-08:45	55.5	59.0	48.1
	55.7	57.8	46.6
	54.1	57.3	46.6
08:45-09:00	55.0	57.6	47.0
	53.6	56.7	45.5
	52.5	55.1	44.3
09:00-09:15	52.4	55.3	45.5
	55.4	58.6	47.9
	57.8	58.9	47.5
09:15-09:30	56.2	59.5	48.5
	55.7	58.4	48.2
	55.7	59.2	49.3
09:30-09:45	56.8	59.8	49.8
	55.9	58.6	48.4
	55.6	58.6	49.0
09:45-10:00	57.8	60.7	51.1
	58.8	61.7	49.7
	57.2	59.2	51.9
10:00-10:15	55.7	58.7	50.6
	57.7	60.7	50.3
	56.1	59.2	49.5
10:15-10:30	54.3	57.5	49.0
	56.6	60.2	48.7
	54.7	58.0	46.8
10:30-10:45	55.2	57.7	47.7
	54.5	56.7	48.9
	54.6	57.7	47.3
10:45-11:00	54.3	57.1	47.9
	57.4	60.6	50.5
	56.2	59.3	48.3

Time Slot	Leq, 5min	L10	L90
11:00-11:15	58.5	60.7	48.9
	56.2	59.0	49.2
	54.7	57.7	47.6
11:15-11:30	55.5	58.7	48.9
	57.8	62.5	47.7
	54.1	57.2	48.5
11:30-11:45	53.2	56.5	46.8
	55.7	59.0	48.7
	55.4	58.2	49.6
11:45-12:00	55.6	58.4	48.9
	57.1	60.4	50.6
	57.8	60.6	48.4
12:00-12:15	59.7	62.5	53.3
	57.7	60.0	49.3
	55.3	58.2	48.2
12:15-12:30	54.0	56.6	47.8
	56.3	59.0	48.9
	55.3	59.0	47.7
12:30-12:45	57.8	60.8	50.0
	57.0	61.1	48.3
	55.9	58.9	49.7
12:45-13:00	54.1	57.1	47.5
	55.2	57.2	48.9
	56.4	59.1	49.8
13:00-13:15	55.2	58.1	47.4
	54.7	57.7	47.2
	55.0	57.7	47.4
13:15-13:30	54.6	57.3	47.5
	54.4	57.1	47.3
	55.6	58.8	47.2
13:30-13:45	54.9	57.8	47.6
	52.5	55.5	46.1
	52.7	55.4	45.2
13:45-14:00	53.3	56.3	47.2
	53.2	56.3	47.0
	57.7	60.5	49.0

Time Slot	Leq, 5min	L10	L90
14:00-14:15	56.2	59.3	49.0
	56.0	58.7	50.0
	54.3	57.4	48.3
14:15-14:30	57.6	58.9	51.3
	56.5	59.4	47.4
	58.0	60.2	55.0
14:30-14:45	57.7	60.8	48.8
	56.2	59.9	47.6
	54.6	57.3	47.5
14:45-15:00	54.0	56.7	47.7
	54.6	57.9	48.4
	56.9	58.8	48.5
15:00-15:15	56.8	59.1	52.8
	59.5	60.7	57.2
	59.1	61.1	54.7
15:15-15:30	55.7	59.0	47.9
	55.2	56.8	48.2
	55.7	58.6	47.8
15:30-15:45	55.1	57.9	48.9
	56.3	59.4	49.0
	55.7	58.7	49.7
15:45-16:00	55.2	58.3	49.2
	55.5	57.9	48.2
	54.2	56.9	48.1
16:00-16:15	57.0	58.7	54.4
	55.5	57.9	50.9
	55.7	57.8	51.2
16:15-16:30	56.5	59.3	51.0
	56.6	59.3	50.9
	57.9	59.9	48.4
16:30-16:45	53.8	56.8	46.9
	53.1	56.4	47.0
	55.3	58.8	48.8
16:45-17:00	57.2	60.9	49.6
	56.9	60.5	49.9
	54.6	57.2	49.0

Time Slot	Leq, 5min	L10	L90
17:00-17:15	64.3	67.5	55.0
	57.4	60.3	53.4
	56.7	58.7	52.7
17:15-17:30	60.6	64.1	53.7
	59.5	63.6	52.4
	54.5	57.6	48.0
17:30-17:45	55.2	58.6	48.0
	52.9	55.8	46.0
	54.1	57.1	47.8
17:45-18:00	53.8	56.6	47.9
	52.6	55.6	46.5
	55.4	57.4	48.3
18:00-18:15	56.6	59.8	47.9
	52.9	55.5	46.9
	52.6	55.6	45.9
18:15-18:30	57.3	58.8	49.2
	53.6	56.5	47.2
	53.7	56.8	48.2
18:30-18:45	53.1	55.7	47.5
	53.1	55.4	47.6
	52.6	54.8	47.9
18:45-19:00	52.9	55.3	47.6
	55.2	56.9	47.5
	51.9	55.1	45.2
19:00-19:15	53.0	55.9	46.1
	52.5	55.3	46.9
	52.7	55.1	47.2
19:15-19:30	52.2	54.9	47.2
	51.6	54.5	46.8
	52.3	55.1	46.8
19:30-19:45	53.0	55.9	47.3
	52.2	55.6	46.0
	52.7	55.4	47.1
19:45-20:00	52.5	54.9	46.3
	52.1	55.1	46.7
	52.3	54.8	47.0

Time Slot	Leq, 5min	L10	L90
20:00-20:15	55.3	58.7	47.1
	53.9	56.6	48.0
	51.9	54.0	47.4
20:15-20:30	52.3	54.7	48.5
	51.9	54.2	47.5
	54.5	57.5	48.2
20:30-20:45	52.1	54.6	46.8
	52.9	55.1	48.6
	53.0	55.9	48.3
20:45-21:00	51.5	54.4	46.4
	52.0	54.8	47.2
	53.6	56.0	46.8
21:00-21:15	53.0	55.8	47.9
	52.2	54.5	48.0
	52.5	55.6	46.6
21:15-21:30	53.6	56.1	48.9
	52.6	55.5	46.7
	57.6	59.1	52.7
21:30-21:45	55.8	59.5	48.1
	52.1	54.8	45.7
	52.6	55.0	46.1
21:45-22:00	51.6	54.2	46.2
	50.8	53.2	45.5
	52.5	55.0	46.1
22:00-22:15	52.0	54.5	46.0
	52.4	54.7	47.0
	51.7	54.3	46.3
22:15-22:30	56.3	57.9	47.3
	51.3	53.9	46.5
	51.5	54.3	46.8
22:30-22:45	52.6	55.6	46.8
	52.6	54.9	47.0
	51.2	54.0	46.2
22:45-23:00	52.9	55.6	45.6
	54.5	56.2	47.0
	52.7	55.6	46.0

Time Slot	Leq, 5min	L10	L90
Average	55.3	58.2	48.7
Max	64.3	67.5	57.2
Min	50.5	53.2	41.5

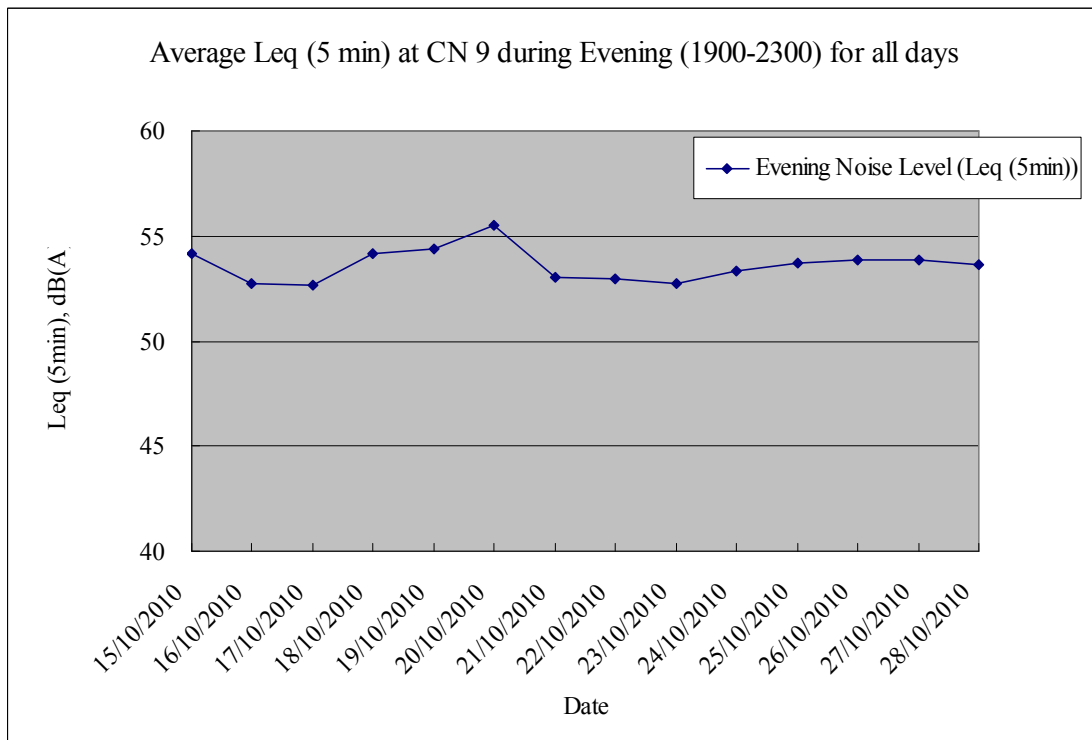
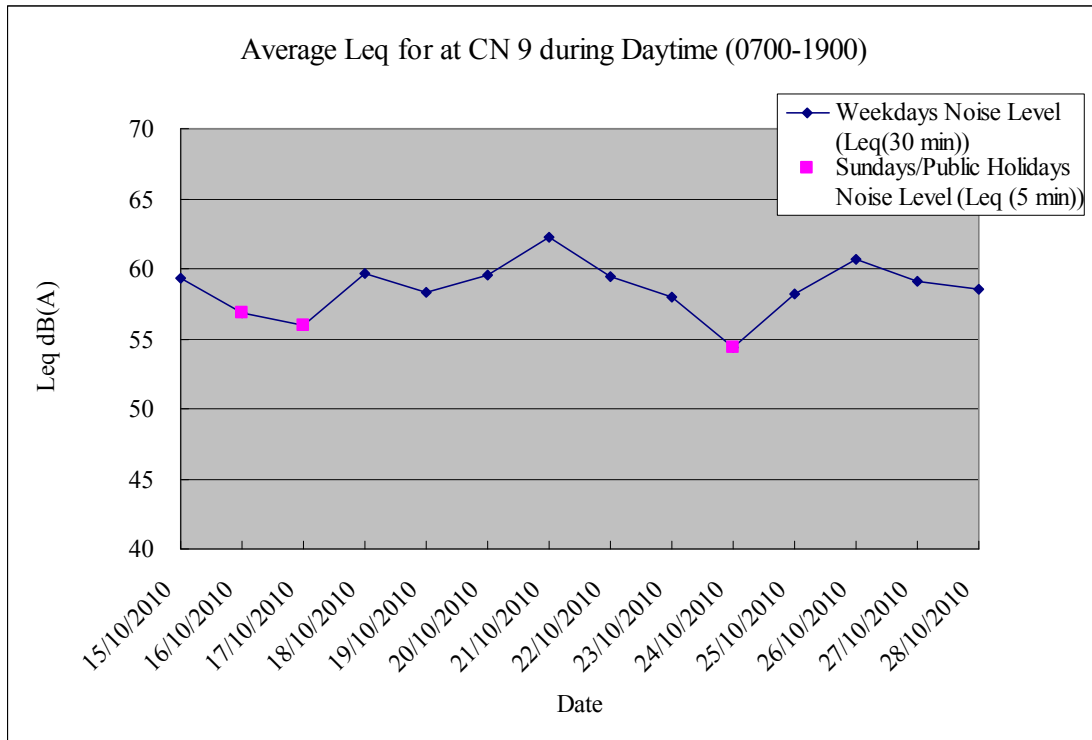
4) Night-time (for all days) Noise Level, dB(A)

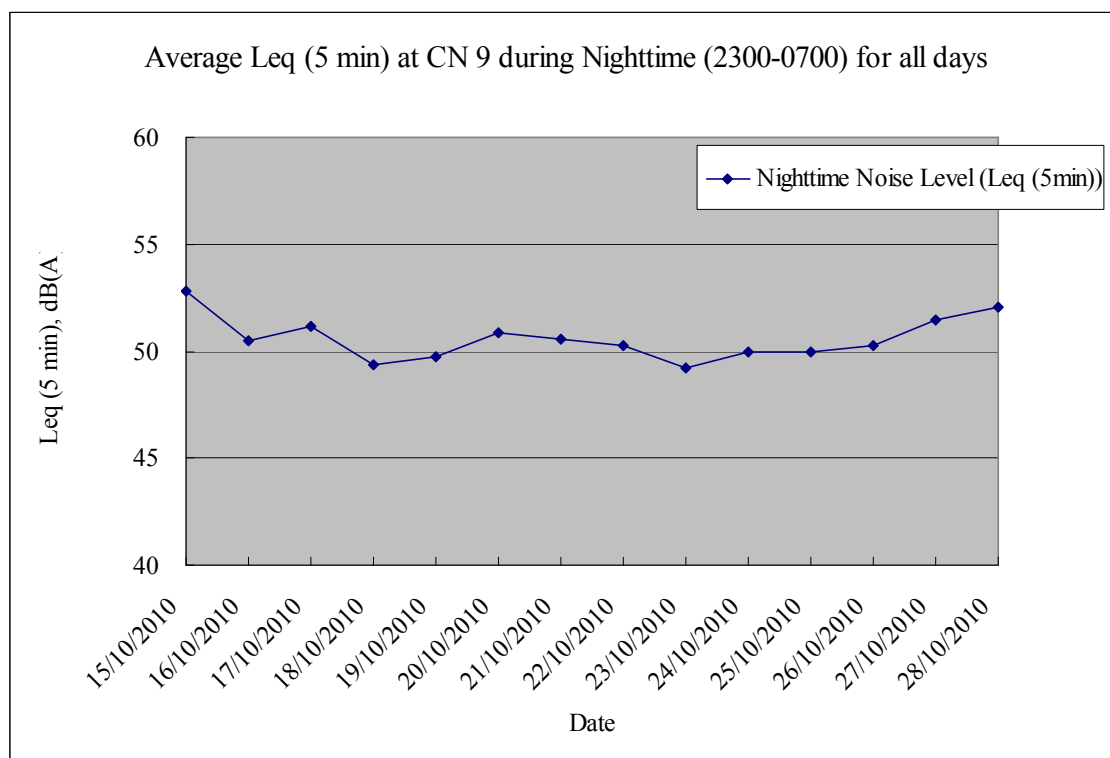
Time Slot	Leq, 5min	L10	L90
23:00-23:15	51.9	54.8	45.6
	51.9	54.9	45.7
	52.6	55.0	45.1
23:15-23:30	53.6	56.6	46.2
	52.9	56.2	45.5
	52.1	55.0	45.7
23:30-23:45	52.1	55.0	45.4
	51.9	54.7	44.7
	51.7	54.6	45.3
23:45-00:00	51.5	54.4	44.8
	51.6	54.7	44.3
	52.1	55.2	44.7
00:00-00:15	51.4	54.2	45.6
	50.9	54.2	44.4
	51.6	54.2	45.2
00:15-00:30	52.2	54.7	45.4
	50.8	53.9	44.9
	51.9	54.7	45.4
00:30-00:45	50.6	53.5	44.9
	50.9	53.4	45.0
	51.5	54.7	45.2
00:45:01:00	51.4	54.1	45.9
	50.1	52.6	44.9
	50.2	53.0	44.8
01:00-01:15	49.3	52.1	44.2
	50.2	52.8	44.6
	50.2	52.7	44.3
01:15-01:30	50.0	52.7	44.5
	49.3	52.0	44.1

Time Slot	Leq, 5min	L10	L90
	49.6	52.3	43.5
01:30-01:45	49.0	51.2	43.5
	48.9	51.4	43.8
	49.0	51.6	43.4
01:45-02:00	49.1	51.6	43.7
	48.6	50.7	43.0
	49.5	51.8	43.5
02:00-02:15	49.0	51.4	43.4
	50.2	52.6	43.7
	49.0	51.7	42.2
02:15-02:30	48.2	50.8	42.1
	48.5	50.7	43.4
	49.3	51.8	44.0
02:30-02:45	48.3	50.6	44.1
	48.5	50.8	43.6
	48.5	51.1	43.8
02:45-03:00	49.3	52.0	42.3
	47.3	50.1	41.4
	49.2	51.9	41.4
03:00-03:15	49.6	53.1	41.3
	48.8	51.6	41.3
	49.6	52.6	43.1
03:15-03:30	49.1	51.6	43.8
	49.7	52.0	43.3
	49.1	51.4	41.7
03:30-03:45	48.2	50.8	42.9
	47.7	50.1	43.0
	49.1	51.2	43.3
03:45-04:00	48.5	50.7	43.9
	49.3	51.6	43.6
	48.2	50.4	43.3
04:00-04:15	47.7	50.2	42.2
	47.5	49.8	43.1
	48.8	51.3	42.9
04:15-04:30	48.8	51.4	43.6
	48.6	50.7	43.2

Time Slot	Leq, 5min	L10	L90
	49.2	52.4	42.0
04:30-04:45	51.9	56.0	43.4
	48.5	51.7	41.7
	47.1	49.5	41.2
04:45-05:00	47.6	50.2	41.1
	47.2	50.0	41.0
	45.9	48.7	40.5
05:00-05:15	48.3	51.7	40.8
	50.2	53.0	42.4
	48.3	51.2	41.3
05:15-05:30	50.0	52.7	44.2
	48.7	52.1	41.5
	47.7	50.4	41.3
05:30-05:45	48.1	51.4	41.2
	48.0	51.0	41.5
	50.1	53.2	42.3
05:45-06:00	50.4	53.9	42.1
	47.8	50.5	40.8
	49.3	52.3	40.5
06:00-06:15	50.0	53.2	41.6
	49.9	52.9	41.7
	51.8	54.8	42.5
06:15-06:30	52.6	55.2	46.5
	55.0	57.4	47.2
	56.0	58.5	45.7
06:30-06:45	54.6	57.7	46.0
	54.1	56.8	45.9
	55.3	58.5	45.7
06:45-07:00	54.4	57.6	46.4
	54.8	58.1	46.7
	54.1	56.7	46.0
Average	50.7	53.5	43.9
Max	56.0	58.5	47.2
Min	45.9	48.7	40.5

Log average was used.





Baseline Noise Monitoring Result

Location: CN 10 DD110 LOT 482, Wang Toi Shan

Baseline monitoring period: 6/8/2010 to 25/8/2010 (No monitoring was carried out on 7/8, 11/8, 19/8, 20/8, 23/8 and 24/8 due to rainfall.)

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	58.0	58.7	57.3
07:30-08:00	57.4	58.2	56.7
08:00-08:30	57.0	58.2	55.8
08:30-09:00	56.7	58.4	54.9
09:00-09:30	57.5	59.7	55.2
09:30-10:00	57.3	59.4	55.1
10:00-10:30	57.9	61.0	54.8
10:30-11:00	57.3	59.3	54.7
11:00-11:30	56.4	57.9	54.6
11:30-12:00	57.4	59.9	54.5
12:00-12:30	54.8	55.5	53.9
12:30-13:00	54.7	55.5	53.8
13:00-13:30	55.0	55.6	53.6
13:30-14:00	56.4	59.3	54.3
14:00-14:30	55.2	56.0	54.3
14:30-15:00	54.8	55.5	53.9
15:00-15:30	56.1	57.7	54.2
15:30-16:00	60.5	63.1	54.2
16:00-16:30	60.7	63.9	54.2
16:30-17:00	59.9	62.5	54.7
17:00-17:30	58.5	61.5	54.6
17:30-18:00	60.6	64.2	54.3
18:00-18:30	57.0	58.2	53.8
18:30-19:00	57.1	59.7	54.1
Average	57.6	59.9	54.7

Max	60.7	64.2	57.3
Min	54.7	55.5	53.6

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	55.0	56.0	53.7
	56.3	58.6	53.6
	55.9	57.9	53.7
19:15-19:30	55.3	56.9	53.5
	54.4	55.3	53.5
	54.6	55.4	53.8
19:30-19:45	57.1	57.8	54.0
	58.1	59.6	54.2
	57.4	60.6	54.4
19:45-20:00	59.1	61.5	55.0
	56.4	57.3	55.2
	56.3	57.1	55.3
20:00-20:15	55.9	56.5	55.2
	55.7	56.2	55.0
	56.3	56.7	55.9
20:15-20:30	56.4	56.8	55.8
	55.6	56.8	54.6
	57.2	58.8	55.5
20:30-20:45	57.3	58.0	55.5
	57.4	58.0	56.4
	57.9	59.7	56.0
20:45-21:00	59.2	62.6	56.4
	57.3	57.9	55.7
	58.2	60.8	56.3
21:00-21:15	57.2	57.6	56.0
	56.8	57.4	56.2
	56.5	57.1	55.8
21:15-21:30	56.2	56.8	55.4
	57.3	58.9	55.0
	56.1	56.6	55.6

Time Slot	Leq, 5min	L10	L90
21:30-21:45	56.5	57.4	55.8
	58.4	58.9	56.7
	57.8	60.3	55.6
21:45-22:00	59.6	63.3	55.2
	56.6	58.6	55.2
	55.6	56.1	55.0
22:00-22:15	55.6	56.1	55.2
	55.6	56.1	55.2
	55.1	55.9	54.4
22:15-22:30	55.0	55.5	54.4
	55.1	55.7	54.5
	55.3	55.7	54.7
22:30-22:45	55.2	55.7	54.6
	55.3	55.6	54.8
	55.2	55.7	54.6
22:45-23:00	55.6	56.0	55.1
	55.7	56.1	55.1
	55.3	55.8	54.9
Average	56.6	58.0	55.1
Max	59.6	63.3	56.7
Min	54.4	55.3	53.5

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	56.1	57.6	54.6
	56.1	57.7	54.6
	56.4	57.7	55.0
07:15-07:30	56.5	57.9	55.0
	56.3	57.8	54.7
	56.8	58.3	55.1
07:30-07:45	56.8	57.7	54.9
	56.8	58.3	54.7
	56.0	57.2	54.4
07:45-08:00	55.5	56.7	54.2

Time Slot	Leq, 5min	L10	L90
	55.6	56.8	54.3
	56.1	57.4	54.7
08:00-08:15	56.3	57.7	54.8
	55.6	56.8	54.1
	56.0	57.6	54.3
08:15-08:30	55.9	57.6	54.1
	55.8	57.4	54.1
	56.3	57.9	54.6
08:30-08:45	55.7	57.1	54.2
	56.0	57.4	54.5
	56.0	57.4	54.5
08:45-09:00	55.5	56.6	54.1
	54.7	55.5	53.8
	55.1	56.5	53.7
09:00-09:15	55.5	56.8	54.1
	56.0	57.3	54.1
	57.0	58.7	54.1
09:15-09:30	60.6	62.2	54.3
	57.1	58.5	54.2
	58.1	60.0	53.9
09:30-09:45	58.8	61.3	54.1
	59.5	62.5	54.5
	58.2	60.6	54.3
09:45-10:00	57.0	57.9	54.2
	57.1	58.5	54.9
	56.3	57.4	54.1
10:00-10:15	59.0	63.7	54.8
	60.8	64.7	55.4
	58.4	60.2	56.1
10:15-10:30	62.2	63.9	57.9
	57.5	59.3	55.0
	63.2	66.6	59.6
10:30-10:45	58.8	60.0	56.3
	57.1	58.1	56.1
	57.3	57.9	56.6
10:45-11:00	56.8	57.4	56.1

Time Slot	Leq, 5min	L10	L90
	57.8	58.5	56.7
	59.9	61.4	57.4
11:00-11:15	61.1	61.5	60.7
	63.1	63.4	62.4
	62.5	63.6	61.0
11:15-11:30	62.2	63.9	60.8
	62.6	64.8	60.7
	61.7	62.8	60.6
11:30-11:45	61.5	62.6	60.4
	56.4	58.5	53.6
	61.1	62.0	60.2
11:45-12:00	61.1	61.7	59.9
	61.5	62.0	59.7
	60.5	61.1	59.2
12:00-12:15	56.2	57.9	53.0
	56.6	58.0	53.5
	54.8	55.4	53.3
12:15-12:30	55.5	57.5	53.4
	59.4	59.9	58.8
	54.2	55.0	53.5
12:30-12:45	65.4	66.2	60.8
	61.9	62.6	57.4
	57.3	59.8	53.7
12:45-13:00	59.7	61.7	54.1
	56.1	57.8	53.7
	62.5	63.0	57.9
13:00-13:15	59.5	60.2	57.9
	59.2	59.6	57.6
	58.4	58.9	57.3
13:15-13:30	60.8	61.4	56.4
	58.9	61.0	56.3
	59.1	62.2	54.3
13:30-13:45	60.2	63.5	56.7
	56.9	58.2	54.2
	57.7	59.0	55.9
13:45-14:00	55.9	57.7	54.0

Time Slot	Leq, 5min	L10	L90
	57.6	59.4	54.7
	58.2	61.0	54.4
14:00-14:15	58.0	58.9	55.8
	56.9	58.6	54.9
	58.7	60.6	55.9
14:15-14:30	60.5	63.0	56.4
	59.3	61.4	55.4
	57.5	58.8	53.9
14:30-14:45	58.9	61.4	55.0
	58.9	62.6	53.5
	59.1	60.0	54.7
14:45-15:00	58.1	60.2	54.8
	58.7	62.4	53.8
	55.9	57.3	53.4
15:00-15:15	58.1	60.3	54.5
	57.5	60.0	53.0
	55.6	56.7	53.1
15:15-15:30	60.5	64.2	54.4
	59.7	62.8	54.7
	58.2	60.2	54.6
15:30-15:45	58.3	59.6	54.2
	58.8	61.2	54.7
	58.5	61.1	54.1
15:45-16:00	64.0	66.1	54.5
	58.6	61.8	54.6
	58.6	61.5	54.2
16:00-16:15	59.1	62.5	54.3
	59.6	62.5	55.0
	58.0	60.5	54.1
16:15-16:30	57.7	60.5	54.3
	54.9	55.7	54.0
	57.0	60.4	54.2
16:30-16:45	56.0	57.3	54.6
	57.3	60.5	54.3
	57.6	59.0	54.6
16:45-17:00	58.4	59.7	54.4

Time Slot	Leq, 5min	L10	L90
	59.1	61.4	54.7
	58.3	60.2	54.6
17:00-17:15	57.5	59.3	54.2
	59.3	62.4	54.5
	58.2	59.9	54.0
17:15-17:30	57.5	60.1	54.1
	55.8	56.9	53.7
	56.3	58.6	53.7
17:30-17:45	55.9	57.3	53.7
	57.5	60.1	53.7
	55.2	55.6	53.9
17:45-18:00	56.8	58.3	54.0
	56.7	58.3	54.2
	55.2	56.4	53.9
18:00-18:15	55.0	56.1	53.8
	56.4	57.7	54.5
	57.9	58.7	54.4
18:15-18:30	55.7	57.2	54.2
	54.6	55.7	53.5
	55.0	55.9	53.9
18:30-18:45	55.7	57.1	54.0
	55.4	56.6	54.1
	55.3	56.7	53.7
18:45-19:00	54.2	54.9	53.2
	53.7	54.1	53.1
	53.6	54.1	53.1
19:00-19:15	56.1	57.9	53.4
	54.1	54.8	53.2
	54.0	54.4	53.3
19:15-19:30	54.1	54.8	53.4
	60.5	60.9	53.4
	54.4	54.8	53.8
19:30-19:45	60.5	61.9	54.0
	54.6	55.1	54.1
	59.4	60.4	54.5
19:45-20:00	58.4	60.2	55.6

Time Slot	Leq, 5min	L10	L90
	56.3	58.3	54.7
	55.1	55.5	54.5
20:00-20:15	56.2	56.6	55.6
	55.0	55.4	54.6
	56.6	57.1	56.2
20:15-20:30	61.2	62.7	55.8
	57.1	57.4	56.7
	55.8	56.5	54.6
20:30-20:45	54.7	55.3	54.2
	54.9	55.3	54.4
	54.7	55.1	54.2
20:45-21:00	54.6	55.0	54.1
	54.4	54.9	54.0
	54.3	54.8	53.8
21:00-21:15	54.2	54.7	53.7
	54.1	54.6	53.5
	54.7	55.1	54.0
21:15-21:30	54.6	55.3	53.8
	54.9	55.3	54.5
	54.9	55.6	54.2
21:30-21:45	55.9	56.2	55.5
	55.6	56.0	55.3
	55.2	55.6	54.8
21:45-22:00	55.3	55.7	54.9
	55.5	55.8	55.1
	55.5	55.9	55.1
22:00-22:15	55.6	56.0	55.1
	55.5	55.9	55.1
	55.5	55.9	55.1
22:15-22:30	56.1	56.5	55.7
	55.3	55.6	54.9
	55.5	55.9	55.1
22:30-22:45	55.5	55.8	55.0
	57.2	58.1	55.6
	55.3	55.7	54.9
22:45-23:00	55.9	56.3	55.5

Time Slot	Leq, 5min	L10	L90
	55.2	55.6	54.8
	55.1	55.5	54.7
Average	58.0	59.7	55.5
Max	65.4	66.6	62.4
Min	53.6	54.1	53.0

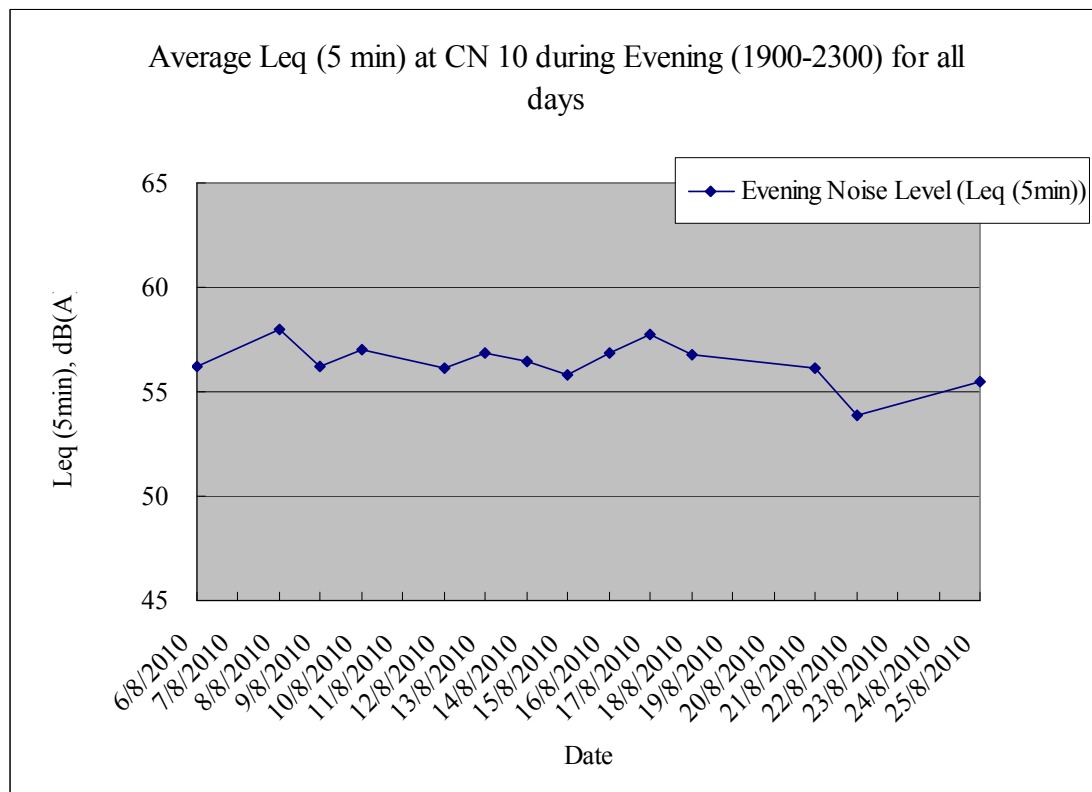
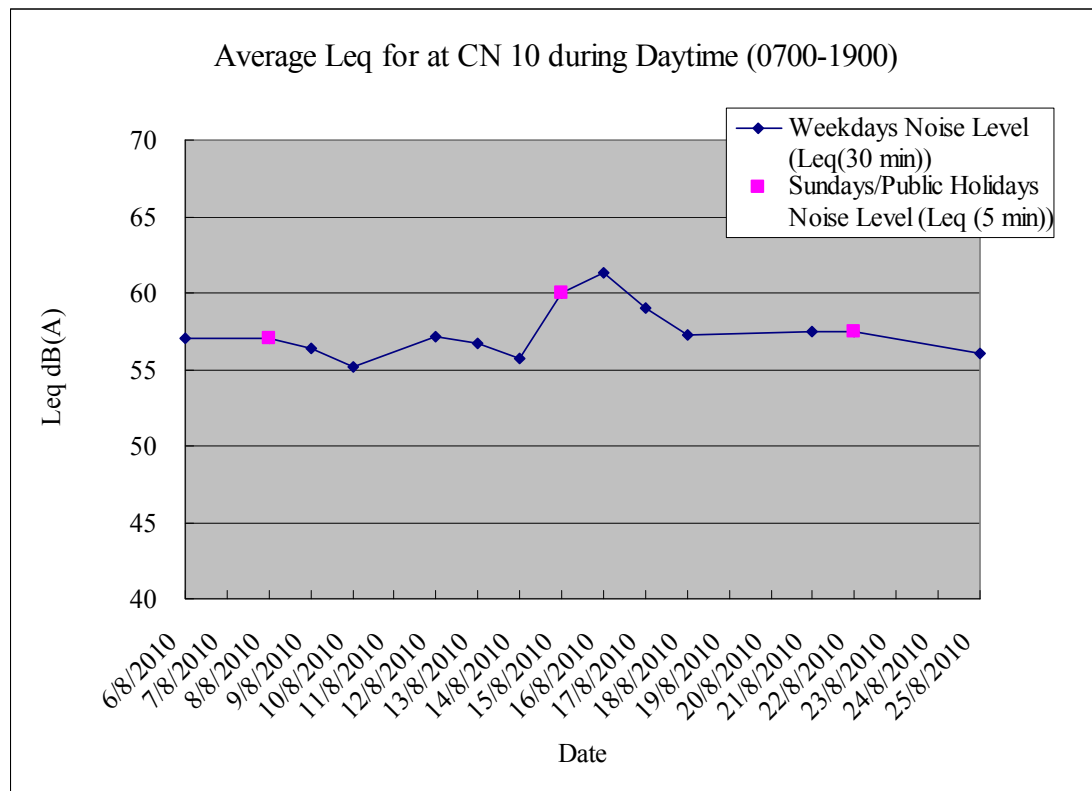
4) Night-time (for all days) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
23:00-23:15	55.3	55.7	54.9
	55.3	55.8	54.8
	55.4	56.0	54.8
23:15-23:30	55.0	55.4	54.5
	54.9	55.4	54.4
	55.0	55.6	54.5
23:30-23:45	55.0	55.5	54.4
	55.1	55.6	54.7
	55.2	55.6	54.7
23:45-00:00	55.2	55.7	54.7
	55.3	55.8	54.8
	55.3	55.7	54.7
00:00-00:15	55.6	56.0	55.2
	55.7	56.1	55.3
	55.6	56.0	55.2
00:15-00:30	55.5	55.9	55.1
	55.4	55.8	54.9
	55.3	55.7	54.9
00:30-00:45	55.3	55.7	54.9
	55.1	55.6	54.6
	55.1	55.4	54.6
00:45:01:00	54.7	55.1	54.3
	54.8	55.2	54.4
	54.6	55.1	54.2
01:00-01:15	54.6	55.0	54.2
	54.6	55.1	54.2
	54.6	55.1	54.1

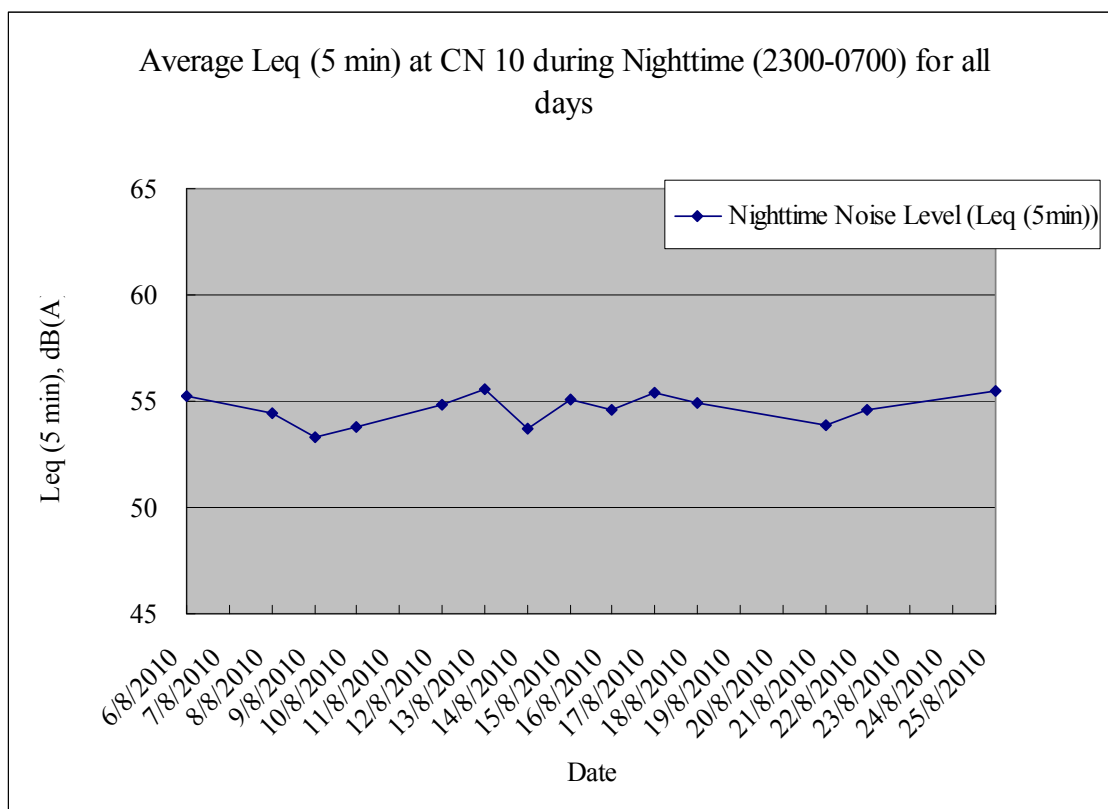
Time Slot	Leq, 5min	L10	L90
01:15-01:30	54.7	55.3	54.1
	54.9	55.4	54.3
	54.9	55.4	54.4
01:30-01:45	54.9	55.2	54.4
	54.8	55.2	54.4
	54.9	55.3	54.4
01:45-02:00	55.0	55.4	54.6
	55.0	55.4	54.5
	54.9	55.3	54.5
02:00-02:15	55.1	55.6	54.6
	55.2	55.7	54.6
	55.2	55.6	54.7
02:15-02:30	55.1	55.5	54.6
	55.1	55.7	54.6
	55.2	55.8	54.7
02:30-02:45	55.4	56.0	54.7
	55.8	56.3	55.2
	55.9	56.4	55.4
02:45-03:00	55.6	56.4	54.9
	55.3	55.7	54.8
	55.5	56.0	54.9
03:00-03:15	55.2	55.6	54.8
	55.6	56.1	55.0
	55.4	56.1	54.7
03:15-03:30	55.1	55.5	54.7
	55.3	55.7	54.8
	55.8	56.3	55.2
03:30-03:45	56.0	56.4	55.5
	56.0	56.4	55.5
	56.1	56.5	55.7
03:45-04:00	55.8	56.3	55.3
	56.0	56.4	55.4
	56.0	56.6	55.4
04:00-04:15	55.9	56.3	55.5
	55.9	56.3	55.5
	55.6	56.0	55.2

Time Slot	Leq, 5min	L10	L90
04:15-04:30	55.7	56.1	55.2
	55.6	56.1	55.0
	55.3	55.7	54.9
04:30-04:45	55.3	55.7	55.0
	55.5	55.9	55.0
	55.6	56.0	55.2
04:45-05:00	55.6	56.0	55.2
	55.6	56.0	55.2
	55.5	55.9	55.1
05:00-05:15	55.3	55.8	54.8
	55.1	55.6	54.5
	54.9	55.3	54.4
05:15-05:30	54.6	55.1	54.1
	54.4	54.8	54.0
	54.4	54.8	54.0
05:30-05:45	54.4	54.8	54.0
	54.5	54.9	54.0
	54.4	55.1	53.8
05:45-06:00	54.7	55.3	53.9
	55.5	56.7	54.3
	56.0	57.5	54.4
06:00-06:15	56.1	57.5	54.4
	55.7	57.0	54.4
	56.2	57.9	54.3
06:15-06:30	55.7	57.2	54.2
	55.9	57.5	54.3
	55.9	57.6	54.2
06:30-06:45	55.8	57.4	54.1
	55.7	57.1	54.0
	55.1	56.4	53.9
06:45-07:00	55.3	56.7	53.9
	55.3	56.6	54.0
	55.6	57.4	54.0
Average	55.3	56.0	54.7
Max	56.2	57.9	55.7
Min	54.4	54.8	53.8

Log average was used.



No monitoring was carried out on 7/8, 11/8, 19/8, 20/8, 23/8 and 24/8 due to rainfall.



No monitoring was carried out on 7/8, 11/8, 19/8, 20/8, 23/8 and 24/8 due to rainfall.

Baseline Noise Monitoring Result

Location: CN 13 Tse Uk Tsuen

Baseline monitoring period: 21/8/2010 to 14/9/2010 (No monitoring was carried out on 23/8, 24/8, 28/8, 3/9-5/9 and 8/9-12/9 due to rainfall.)

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	55.0	57.4	50.8
07:30-08:00	54.1	56.8	49.8
08:00-08:30	54.1	57.1	49.0
08:30-09:00	54.0	56.6	48.2
09:00-09:30	54.7	57.9	48.3
09:30-10:00	55.3	58.6	47.8
10:00-10:30	55.9	59.4	47.7
10:30-11:00	55.3	57.9	48.0
11:00-11:30	54.1	57.2	47.5
11:30-12:00	55.6	59.4	47.6
12:00-12:30	55.3	59.1	48.2
12:30-13:00	54.8	58.3	47.6
13:00-13:30	55.2	57.8	49.5
13:30-14:00	57.6	60.2	53.1
14:00-14:30	54.6	57.5	48.8
14:30-15:00	55.5	59.1	47.9
15:00-15:30	56.6	60.1	48.2
15:30-16:00	57.4	60.6	48.2
16:00-16:30	53.3	56.2	47.8
16:30-17:00	53.9	56.5	48.5
17:00-17:30	56.7	59.7	48.1
17:30-18:00	54.9	58.0	48.8
18:00-18:30	57.3	60.4	48.5
18:30-19:00	60.6	64.0	50.4
Average	55.8	59.0	48.9

Max	60.6	64.0	53.1
Min	53.3	56.2	47.5

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	57.4	59.4	51.0
	60.4	64.5	51.4
	57.0	59.1	51.8
19:15-19:30	55.5	58.0	51.9
	57.1	60.9	52.0
	55.2	57.2	52.3
19:30-19:45	56.3	57.8	52.4
	55.9	58.2	52.6
	56.1	58.3	52.7
19:45-20:00	58.5	61.3	53.2
	56.0	58.3	52.8
	58.6	61.4	54.9
20:00-20:15	56.3	58.3	53.2
	57.4	60.1	52.6
	55.9	57.8	52.3
20:15-20:30	57.8	60.9	52.6
	56.1	58.9	52.8
	56.5	58.0	52.8
20:30-20:45	54.7	56.0	52.9
	56.8	59.2	53.1
	57.1	59.6	53.0
20:45-21:00	55.3	56.5	53.1
	57.6	59.5	54.1
	55.2	56.4	53.9
21:00-21:15	57.1	59.6	53.3
	57.0	59.4	53.2
	58.6	61.7	53.3
21:15-21:30	58.5	60.4	53.6
	60.1	63.3	54.0
	59.3	62.0	53.6

Time Slot	Leq, 5min	L10	L90
21:30-21:45	58.4	61.5	53.9
	58.8	60.8	53.9
	55.7	57.4	53.9
21:45-22:00	56.0	57.2	54.1
	55.7	57.0	54.2
	55.7	56.8	54.4
22:00-22:15	55.4	56.5	54.2
	55.8	56.9	54.2
	55.9	56.9	54.5
22:15-22:30	55.7	56.8	54.4
	55.8	56.9	54.3
	55.4	56.5	54.3
22:30-22:45	55.6	56.5	54.3
	55.5	56.7	54.2
	55.3	56.4	54.3
22:45-23:00	55.4	56.4	54.3
	55.5	56.6	53.9
	56.0	57.2	54.2
Average	56.9	59.1	53.5
Max	60.4	64.5	54.9
Min	54.7	56.0	51.0

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	55.2	57.3	51.8
	53.7	55.3	50.2
	53.3	56.0	50.2
07:15-07:30	54.0	56.8	50.2
	53.3	55.5	50.7
	54.1	56.4	50.8
07:30-07:45	54.4	56.5	50.5
	55.0	57.6	50.3
	53.4	55.8	50.1
07:45-08:00	53.0	55.1	50.4

Time Slot	Leq, 5min	L10	L90
	52.9	55.1	49.9
	53.8	56.6	50.0
08:00-08:15	52.0	54.5	48.9
	52.9	54.9	48.4
	52.7	55.0	49.6
08:15-08:30	54.3	57.0	50.7
	53.4	55.3	49.3
	52.1	54.2	49.0
08:30-08:45	53.7	56.3	49.9
	54.5	56.3	48.6
	54.5	55.9	49.3
08:45-09:00	52.6	56.2	48.6
	52.6	55.5	48.4
	53.2	55.6	49.1
09:00-09:15	52.2	55.3	48.1
	53.4	55.7	48.8
	58.4	60.6	49.5
09:15-09:30	57.7	61.3	52.0
	56.9	59.3	49.6
	56.0	57.4	49.1
09:30-09:45	55.1	58.8	49.6
	59.3	62.8	48.6
	54.9	57.6	47.3
09:45-10:00	57.0	61.1	49.1
	55.3	59.0	48.6
	58.5	62.0	48.5
10:00-10:15	55.3	58.5	47.9
	55.9	57.9	47.6
	56.7	60.8	48.8
10:15-10:30	54.8	57.7	47.6
	56.1	59.8	46.8
	51.1	53.8	47.2
10:30-10:45	53.0	55.8	45.1
	50.7	55.0	43.2
	54.6	57.5	46.3
10:45-11:00	51.3	54.5	45.1

Time Slot	Leq, 5min	L10	L90
	54.6	57.6	47.6
	55.4	58.6	46.6
11:00-11:15	51.8	55.0	46.2
	54.9	56.7	46.2
	54.2	57.6	45.7
11:15-11:30	54.3	56.7	45.7
	55.7	59.4	46.8
	53.9	57.3	47.8
11:30-11:45	50.3	54.1	42.9
	51.4	54.0	45.4
	51.9	54.6	48.1
11:45-12:00	53.3	56.2	49.6
	52.6	54.7	49.5
	52.5	54.9	49.6
12:00-12:15	53.6	56.8	47.8
	54.7	57.6	49.0
	52.6	55.2	49.6
12:15-12:30	54.7	57.5	49.5
	52.9	55.7	49.4
	54.6	56.8	49.6
12:30-12:45	53.4	56.1	49.0
	52.7	55.8	48.6
	55.6	59.0	49.6
12:45-13:00	55.3	58.2	50.0
	57.6	59.4	51.5
	56.5	59.6	49.4
13:00-13:15	56.5	58.7	48.9
	53.0	56.0	49.1
	51.7	54.5	47.1
13:15-13:30	55.7	59.4	45.1
	54.4	56.7	44.9
	48.6	51.1	44.0
13:30-13:45	52.4	56.3	43.5
	50.8	54.0	45.3
	52.8	55.9	45.7
13:45-14:00	51.0	53.9	46.2

Time Slot	Leq, 5min	L10	L90
	51.2	54.6	45.4
	56.1	59.6	46.1
14:00-14:15	54.9	56.4	45.2
	55.6	58.7	48.0
	54.4	58.0	46.9
14:15-14:30	56.9	60.0	51.2
	54.2	57.0	46.9
	51.8	55.2	44.3
14:30-14:45	51.4	54.8	45.1
	51.3	54.5	44.7
	52.0	54.7	45.2
14:45-15:00	51.8	54.5	45.8
	49.9	53.2	44.6
	50.7	53.5	46.4
15:00-15:15	56.3	58.0	48.8
	52.6	55.2	45.2
	51.5	54.7	45.9
15:15-15:30	50.3	53.2	45.8
	52.1	54.1	46.2
	51.3	54.9	44.7
15:30-15:45	53.0	56.6	46.7
	55.6	56.6	46.9
	55.4	57.4	46.1
15:45-16:00	58.1	59.2	46.7
	53.6	54.9	45.8
	53.1	57.0	45.5
16:00-16:15	52.7	54.7	46.2
	52.7	55.6	47.3
	53.2	55.5	47.6
16:15-16:30	55.2	57.6	44.9
	54.0	55.4	47.4
	54.3	56.2	47.0
16:30-16:45	54.0	56.6	46.9
	56.3	59.7	46.3
	55.7	58.2	47.7
16:45-17:00	53.8	56.6	46.2

Time Slot	Leq, 5min	L10	L90
	61.6	64.9	47.7
	53.0	56.3	46.7
17:00-17:15	54.0	55.5	46.0
	51.6	54.7	46.1
	50.7	53.6	46.3
17:15-17:30	50.7	53.7	45.7
	51.7	54.8	45.4
	50.3	52.7	46.4
17:30-17:45	51.9	55.2	46.8
	58.2	62.0	46.9
	50.3	52.9	46.7
17:45-18:00	51.3	53.8	46.9
	50.5	52.8	47.2
	54.8	56.5	47.5
18:00-18:15	51.5	53.8	47.7
	51.9	54.7	47.5
	50.1	52.4	47.1
18:15-18:30	50.4	53.0	47.6
	61.9	66.7	48.9
	53.8	56.1	47.6
18:30-18:45	50.0	52.3	46.4
	53.1	56.8	46.8
	54.9	60.0	47.8
18:45-19:00	57.5	60.5	48.2
	60.1	62.9	47.8
	51.3	53.9	47.4
19:00-19:15	52.3	53.2	46.5
	53.5	55.0	49.0
	53.3	55.1	49.3
19:15-19:30	52.5	55.2	49.0
	53.5	55.2	50.7
	54.5	56.3	51.8
19:30-19:45	54.4	56.4	51.5
	55.0	56.8	52.1
	54.4	55.6	52.9
19:45-20:00	54.5	56.0	52.6

Time Slot	Leq, 5min	L10	L90
	60.2	63.1	51.8
	54.5	56.1	51.3
20:00-20:15	55.0	56.4	52.0
	60.2	64.0	51.5
	55.0	56.6	52.3
20:15-20:30	54.6	55.8	51.8
	54.3	55.6	52.1
	57.2	59.5	52.9
20:30-20:45	55.5	56.7	52.6
	54.4	55.6	52.5
	55.6	57.2	52.7
20:45-21:00	56.8	58.0	52.0
	56.2	57.8	51.2
	54.8	56.5	51.5
21:00-21:15	55.0	56.4	52.9
	55.9	57.3	53.6
	55.4	56.9	53.4
21:15-21:30	55.5	57.0	53.6
	55.5	56.9	53.6
	56.0	57.4	54.1
21:30-21:45	55.0	56.5	53.1
	54.3	55.9	52.7
	55.0	56.9	53.2
21:45-22:00	54.8	56.4	53.1
	54.6	55.8	53.2
	54.5	55.7	53.1
22:00-22:15	54.3	55.5	53.1
	54.8	56.2	53.4
	54.9	56.1	53.8
22:15-22:30	54.8	56.0	53.5
	55.2	55.9	53.5
	55.2	56.2	54.1
22:30-22:45	54.7	56.5	53.0
	54.5	55.7	53.1
	55.0	55.9	53.5
22:45-23:00	55.1	56.3	53.8

Time Slot	Leq, 5min	L10	L90
	55.0	56.0	53.9
	55.9	57.3	54.5
Average	54.7	57.3	49.7
Max	61.9	66.7	54.5
Min	48.6	51.1	42.9

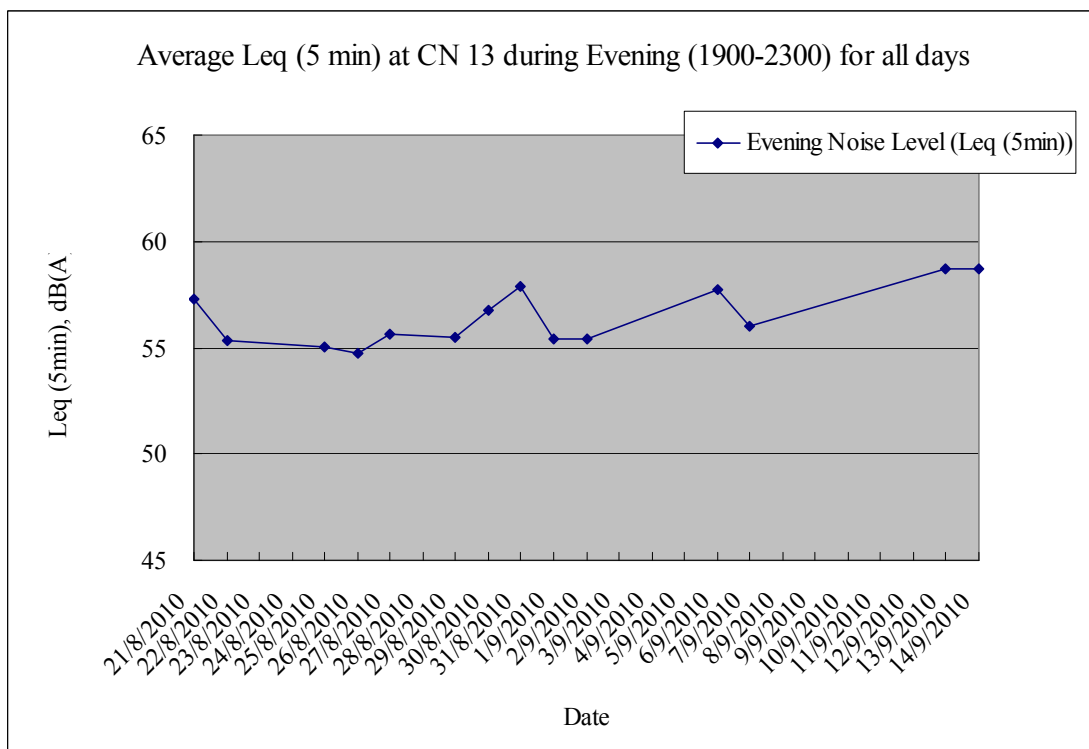
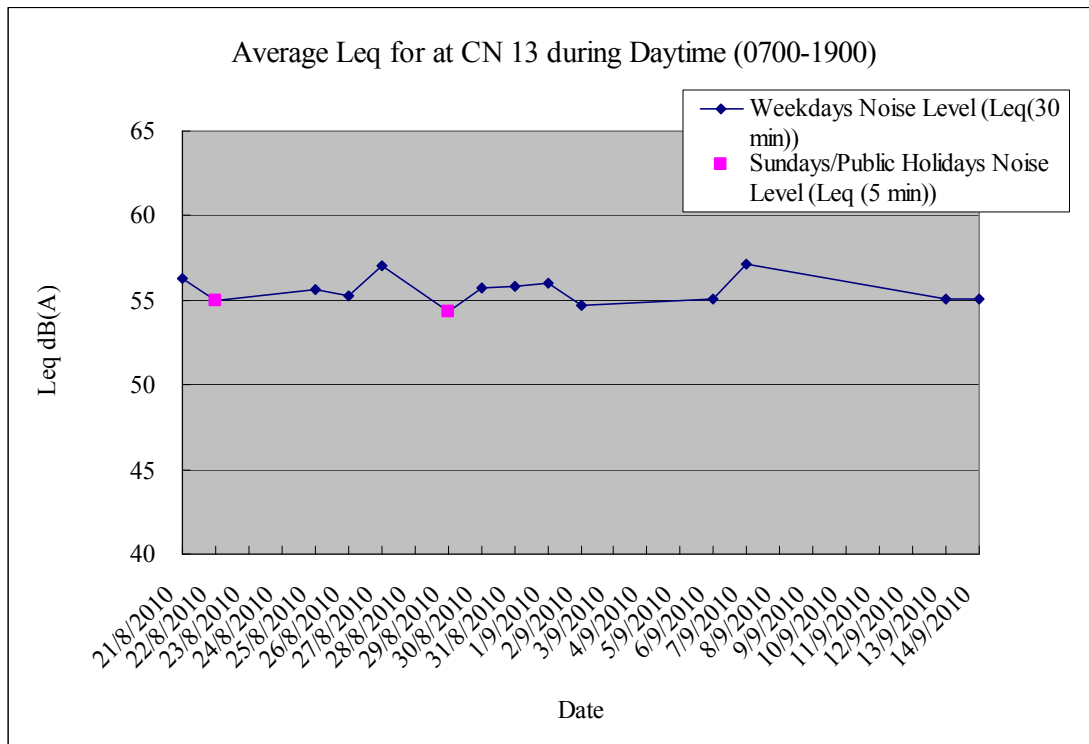
4) Night-time (for all days) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
23:00-23:15	55.9	57.3	54.2
	55.6	56.6	54.2
	55.7	57.0	54.3
23:15-23:30	55.5	56.6	54.3
	55.3	56.6	53.9
	55.7	56.8	54.2
23:30-23:45	55.6	56.8	54.4
	55.9	56.9	54.5
	55.4	56.5	54.3
23:45-00:00	55.5	56.6	54.4
	55.6	56.8	54.4
	55.4	56.5	54.2
00:00-00:15	55.4	56.6	54.1
	55.6	56.9	54.3
	55.9	56.9	54.6
00:15-00:30	56.1	57.3	54.9
	55.6	56.6	54.7
	55.6	56.5	54.7
00:30-00:45	55.4	56.6	53.8
	55.1	56.6	53.7
	55.3	56.1	54.4
00:45:01:00	55.4	56.1	54.6
	54.7	55.5	54.0
	54.7	55.6	53.9
01:00-01:15	55.2	55.9	54.5
	55.7	57.3	54.3
	54.9	56.1	53.6

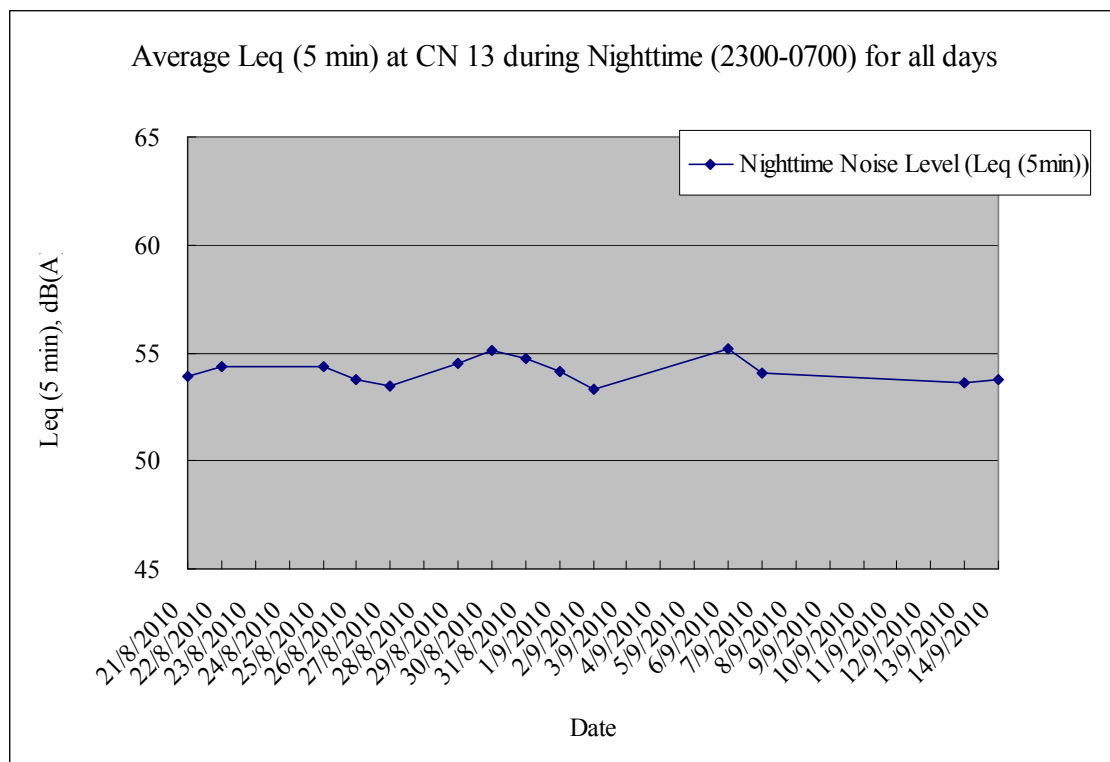
Time Slot	Leq, 5min	L10	L90
01:15-01:30	54.8	55.7	53.7
	54.7	55.9	53.6
	54.8	55.8	53.7
01:30-01:45	54.8	55.7	54.0
	54.8	55.9	54.0
	54.7	55.6	53.8
01:45-02:00	54.5	55.4	53.7
	54.6	55.6	53.5
	54.4	55.5	53.4
02:00-02:15	54.4	55.4	53.5
	54.5	55.5	53.5
	55.0	56.3	53.6
02:15-02:30	54.3	55.1	53.5
	54.3	55.1	53.6
	54.2	54.9	53.4
02:30-02:45	54.6	55.5	53.5
	54.3	55.2	53.4
	54.2	55.0	53.3
02:45-03:00	54.2	55.2	53.4
	54.6	55.5	53.6
	54.8	55.8	53.9
03:00-03:15	54.6	55.6	53.7
	54.5	55.5	53.6
	54.7	56.1	53.4
03:15-03:30	54.4	55.5	53.4
	54.7	55.8	53.7
	54.5	55.3	53.7
03:30-03:45	54.6	55.5	53.8
	54.5	55.4	53.6
	54.4	55.4	53.4
03:45-04:00	54.6	55.6	53.7
	54.8	55.8	53.8
	54.6	55.6	53.7
04:00-04:15	54.6	55.5	53.7
	54.5	55.3	53.5
	54.3	55.2	53.5

Time Slot	Leq, 5min	L10	L90
04:15-04:30	54.3	55.2	53.5
	54.5	55.3	53.7
	54.5	55.3	53.7
04:30-04:45	54.8	55.7	54.0
	54.7	55.9	53.7
	54.6	55.6	53.8
04:45-05:00	54.7	55.8	53.7
	54.4	55.4	53.5
	54.2	55.3	53.3
05:00-05:15	54.4	55.5	53.4
	54.5	55.5	53.6
	54.3	55.1	53.5
05:15-05:30	54.0	55.0	53.2
	54.0	54.9	53.0
	54.1	54.9	53.3
05:30-05:45	53.9	54.6	53.2
	54.1	55.1	52.8
	53.9	55.1	52.8
05:45-06:00	53.6	54.4	52.7
	53.4	54.0	52.7
	54.1	55.4	52.7
06:00-06:15	53.9	55.6	52.1
	54.3	56.2	52.1
	54.4	56.4	52.1
06:15-06:30	54.8	57.1	52.1
	55.0	57.2	51.9
	54.5	56.8	51.6
06:30-06:45	54.6	56.7	51.7
	56.6	60.8	51.6
	56.1	59.5	51.5
06:45-07:00	54.7	57.3	51.2
	55.0	57.2	51.3
	55.4	57.9	51.5
Average	54.8	56.1	53.6
Max	56.6	60.8	54.9
Min	53.4	54.0	51.2

Log average was used.



No monitoring was carried out on 23/8, 24/8, 28/8, 3/9-5/9 and 8/9-12/9 due to rainfall.



No monitoring was carried out on 23/8, 24/8, 28/8, 3/9-5/9 and 8/9-12/9 due to rainfall.

Baseline Noise Monitoring Result

Location: CN 14 Tse Uk Tsuen

Baseline monitoring period: 16/9/2010 to 1/10/2010 (No monitoring was carried out on 20/9 and 21/9 due to rainfall.)

Parameter: Leq

Time Slot Averaged Baselines

1) Weekdays Daytime Noise Level, dB(A)

Time slot	Leq, 30 min	L10	L90
07:00-07:30	52.3	54.4	50.0
07:30-08:00	55.0	56.3	49.9
08:00-08:30	55.8	57.6	53.2
08:30-09:00	56.1	58.3	52.0
09:00-09:30	54.5	56.7	49.3
09:30-10:00	55.7	58.4	49.4
10:00-10:30	60.8	64.8	48.6
10:30-11:00	52.3	54.7	47.1
11:00-11:30	56.1	58.9	48.7
11:30-12:00	55.7	59.0	48.8
12:00-12:30	54.8	58.0	48.5
12:30-13:00	53.1	55.6	48.3
13:00-13:30	60.7	65.8	47.1
13:30-14:00	59.9	63.9	47.1
14:00-14:30	52.6	55.5	46.7
14:30-15:00	54.7	57.6	46.2
15:00-15:30	59.0	62.0	47.9
15:30-16:00	59.9	64.2	48.0
16:00-16:30	54.9	58.5	48.4
16:30-17:00	55.3	58.0	48.1
17:00-17:30	57.7	60.5	48.0
17:30-18:00	54.6	58.4	49.0
18:00-18:30	49.8	52.0	46.9
18:30-19:00	56.9	59.1	47.4
Average	56.6	60.1	48.9

Max	60.8	65.8	53.2
Min	49.8	52.0	46.2

Noise Control Period Averaged Baselines

2) Weekdays Evening Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
19:00-19:15	51.7	53.0	50.1
	52.3	53.5	50.9
	53.0	54.2	51.5
19:15-19:30	53.2	54.6	51.4
	53.7	54.9	52.1
	53.9	55.4	52.2
19:30-19:45	54.4	55.6	52.3
	54.0	55.3	52.5
	53.3	54.2	52.2
19:45-20:00	54.5	55.8	52.8
	53.8	55.0	52.3
	53.7	54.8	52.5
20:00-20:15	54.4	55.5	52.9
	54.0	55.0	52.9
	54.7	55.8	52.9
20:15-20:30	54.3	55.6	52.9
	54.3	55.3	53.2
	54.8	55.9	53.5
20:30-20:45	54.3	55.8	52.6
	53.4	54.3	52.2
	55.0	56.4	53.0
20:45-21:00	55.3	57.6	53.0
	54.6	55.8	53.1
	55.2	56.2	53.8
21:00-21:15	54.9	55.8	53.8
	54.5	55.8	52.8
	54.3	55.6	52.7
21:15-21:30	54.0	54.9	52.8
	54.6	55.3	53.3
	54.2	55.1	53.3

Time Slot	Leq, 5min	L10	L90
21:30-21:45	54.3	55.0	53.4
	54.4	55.3	53.3
	54.5	55.5	53.4
21:45-22:00	53.5	54.2	52.4
	53.6	55.0	52.2
	55.4	56.5	53.0
22:00-22:15	54.0	54.9	53.0
	54.5	55.5	53.3
	54.2	55.4	52.4
22:15-22:30	53.9	55.0	52.3
	54.1	55.2	52.6
	53.8	55.1	51.9
22:30-22:45	53.7	54.9	52.5
	54.0	54.8	53.0
	53.3	54.2	52.2
22:45-23:00	52.9	53.6	51.9
	53.2	54.5	51.9
	54.1	55.1	52.9
Average	54.1	55.2	52.7
Max	55.4	57.6	53.8
Min	51.7	53.0	50.1

3) General Holidays (including Sundays) (0700-2300) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
0700-07:15	49.3	50.4	47.2
	51.5	52.7	48.6
	50.4	51.7	48.7
07:15-07:30	49.5	50.8	47.4
	48.6	49.7	47.3
	48.9	50.2	47.4
07:30-07:45	48.3	49.3	47.0
	48.0	49.1	46.7
	48.9	49.5	46.8
07:45-08:00	49.4	50.6	46.9

Time Slot	Leq, 5min	L10	L90
	61.9	62.6	48.3
	57.7	60.1	46.3
08:00-08:15	48.0	49.1	46.7
	48.6	50.7	46.1
	64.2	68.8	47.6
08:15-08:30	48.6	49.7	47.0
	49.7	51.3	47.6
	50.8	53.0	47.8
08:30-08:45	48.5	50.2	45.8
	49.5	51.3	47.0
	52.5	54.3	49.5
08:45-09:00	52.7	54.9	49.6
	60.5	62.5	49.7
	60.9	64.7	49.6
09:00-09:15	60.0	64.1	49.3
	52.4	54.7	49.3
	51.8	53.5	49.1
09:15-09:30	53.7	57.3	49.3
	50.6	51.9	48.5
	53.4	54.8	48.4
09:30-09:45	51.4	52.9	49.5
	51.3	52.8	49.3
	51.7	53.5	49.0
09:45-10:00	52.6	55.6	48.5
	58.5	64.3	47.2
	69.5	75.7	49.1
10:00-10:15	58.6	64.3	47.3
	50.4	52.2	48.2
	52.1	54.5	47.3
10:15-10:30	66.0	69.9	47.4
	52.0	53.5	49.6
	51.0	53.2	47.6
10:30-10:45	54.4	56.6	50.6
	54.7	57.2	51.7
	55.5	57.4	53.1
10:45-11:00	56.2	58.6	53.3

Time Slot	Leq, 5min	L10	L90
	58.2	61.5	54.0
	62.7	65.0	53.2
11:00-11:15	60.9	66.1	52.3
	57.4	59.1	53.3
	54.7	56.4	52.4
11:15-11:30	53.1	54.8	51.2
	53.2	55.3	50.0
	54.4	57.1	50.6
11:30-11:45	53.6	56.2	50.2
	57.8	59.9	50.2
	53.4	55.3	50.6
11:45-12:00	53.3	55.2	50.3
	54.2	56.1	51.9
	54.5	57.1	51.3
12:00-12:15	66.9	69.7	60.8
	59.4	64.4	50.2
	50.5	53.6	45.9
12:15-12:30	60.2	62.0	46.3
	53.4	55.0	49.6
	49.1	51.8	46.0
12:30-12:45	49.5	52.2	45.9
	66.0	67.0	46.9
	49.2	51.2	46.0
12:45-13:00	49.4	50.8	46.8
	49.8	50.9	46.6
	50.2	52.5	46.1
13:00-13:15	55.5	59.1	45.4
	52.4	55.1	46.7
	54.0	56.2	47.0
13:15-13:30	57.1	58.1	47.4
	57.8	62.1	48.3
	54.0	56.1	50.8
13:30-13:45	55.4	57.2	49.6
	51.5	53.4	49.7
	51.0	52.4	48.9
13:45-14:00	52.2	55.2	48.6

Time Slot	Leq, 5min	L10	L90
	52.7	54.8	49.3
	53.0	55.6	48.6
14:00-14:15	53.0	55.5	47.7
	50.9	53.4	47.9
	52.3	53.7	48.5
14:15-14:30	51.7	53.6	47.9
	50.3	52.7	47.0
	53.4	54.9	48.4
14:30-14:45	58.3	58.7	45.1
	64.0	67.9	44.8
	63.0	66.4	45.6
14:45-15:00	49.6	51.9	45.8
	49.8	52.1	46.2
	50.7	52.1	49.1
15:00-15:15	52.4	53.8	45.1
	52.9	55.6	45.4
	54.6	56.5	47.6
15:15-15:30	51.8	55.3	43.8
	54.8	57.0	43.5
	53.4	57.7	44.3
15:30-15:45	49.8	51.7	40.8
	51.5	55.2	45.4
	48.4	50.4	43.9
15:45-16:00	54.7	57.3	49.8
	54.2	55.9	51.4
	54.4	56.4	51.2
16:00-16:15	53.1	55.1	49.5
	52.0	54.2	47.2
	50.1	52.3	47.0
16:15-16:30	48.3	50.8	42.7
	60.5	62.9	48.2
	54.1	56.0	49.8
16:30-16:45	49.8	51.6	47.5
	48.8	50.0	45.9
	51.4	53.4	48.1
16:45-17:00	60.4	62.4	46.7

Time Slot	Leq, 5min	L10	L90
	57.8	62.1	48.3
	50.2	52.0	48.0
17:00-17:15	55.7	57.4	47.4
	52.0	54.1	47.9
	54.4	55.2	48.5
17:15-17:30	51.0	52.5	49.0
	51.2	52.1	49.3
	54.2	56.7	47.0
17:30-17:45	50.4	52.3	47.7
	53.8	56.7	49.0
	50.5	51.8	48.9
17:45-18:00	51.5	52.1	50.8
	53.0	53.8	52.2
	51.6	53.1	49.3
18:00-18:15	51.3	54.5	48.1
	50.7	52.9	47.6
	51.8	53.8	48.3
18:15-18:30	50.5	51.9	48.7
	58.3	62.2	48.4
	57.9	58.7	48.6
18:30-18:45	52.0	53.9	48.7
	52.4	53.4	50.2
	54.7	57.3	51.6
18:45-19:00	66.3	69.3	51.7
	60.3	62.6	50.3
	64.5	70.4	51.9
19:00-19:15	55.0	56.9	53.1
	55.5	57.7	53.6
	55.8	57.8	54.0
19:15-19:30	55.9	57.7	53.6
	55.3	57.3	53.2
	53.8	55.0	52.4
19:30-19:45	55.3	56.8	53.4
	59.8	63.9	56.2
	55.0	55.6	53.5
19:45-20:00	54.6	55.5	53.5

Time Slot	Leq, 5min	L10	L90
	55.4	56.6	54.2
	56.0	56.8	55.0
20:00-20:15	56.1	56.8	55.2
	55.2	56.1	54.2
	56.0	56.5	54.9
20:15-20:30	54.8	55.7	53.8
	55.1	55.8	54.1
	60.9	62.6	58.8
20:30-20:45	55.2	57.3	53.2
	55.2	57.6	52.4
	55.9	58.4	53.3
20:45-21:00	62.4	64.6	54.1
	56.0	57.3	54.6
	54.3	55.0	53.5
21:00-21:15	53.4	54.4	52.3
	53.8	54.9	52.4
	54.2	55.4	52.3
21:15-21:30	53.8	54.8	52.7
	54.7	55.5	53.6
	54.4	55.4	53.3
21:30-21:45	53.8	54.6	52.9
	53.9	54.5	53.2
	53.6	54.6	52.4
21:45-22:00	53.9	55.1	52.6
	53.9	55.3	52.3
	54.0	55.3	51.9
22:00-22:15	55.3	56.4	53.9
	55.1	55.9	54.0
	54.8	55.5	53.9
22:15-22:30	54.8	55.7	53.8
	54.2	55.2	53.0
	54.6	55.7	53.3
22:30-22:45	53.6	54.4	52.6
	53.8	55.0	51.7
	54.3	55.2	52.6
22:45-23:00	52.8	54.1	51.1

Time Slot	Leq, 5min	L10	L90
	52.8	53.9	51.4
	53.5	55.7	51.6
Average	56.8	60.1	50.8
Max	69.5	75.7	60.8
Min	48.0	49.1	40.8

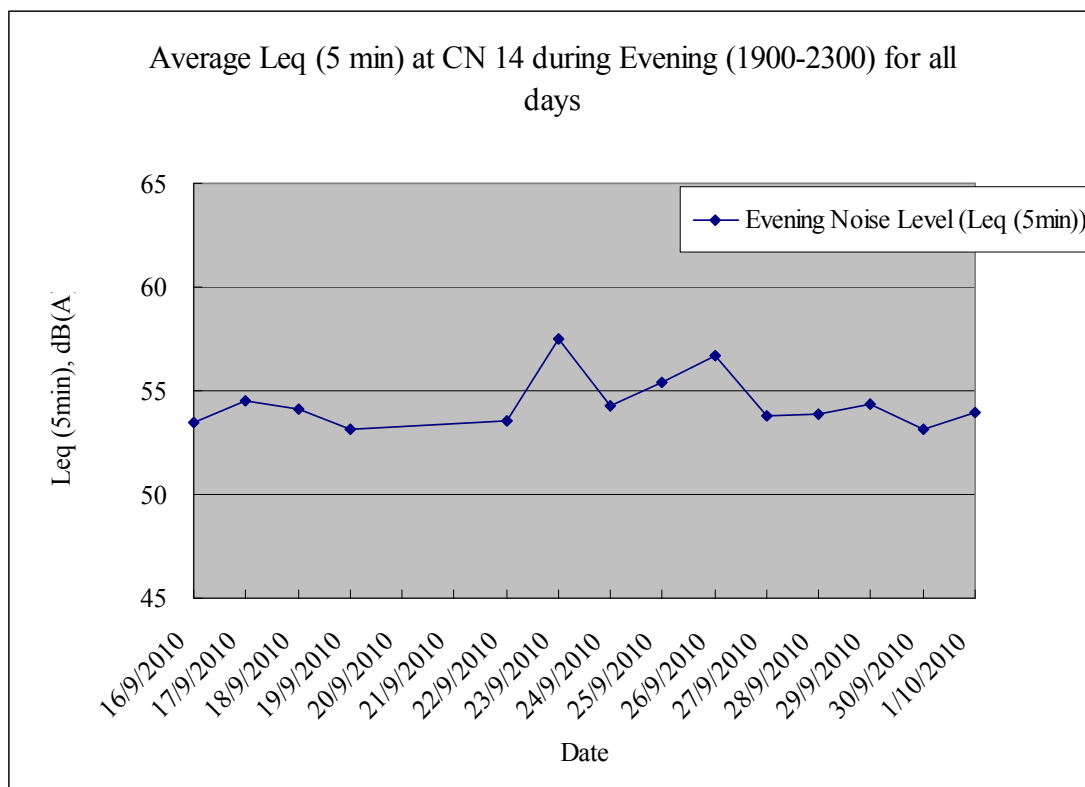
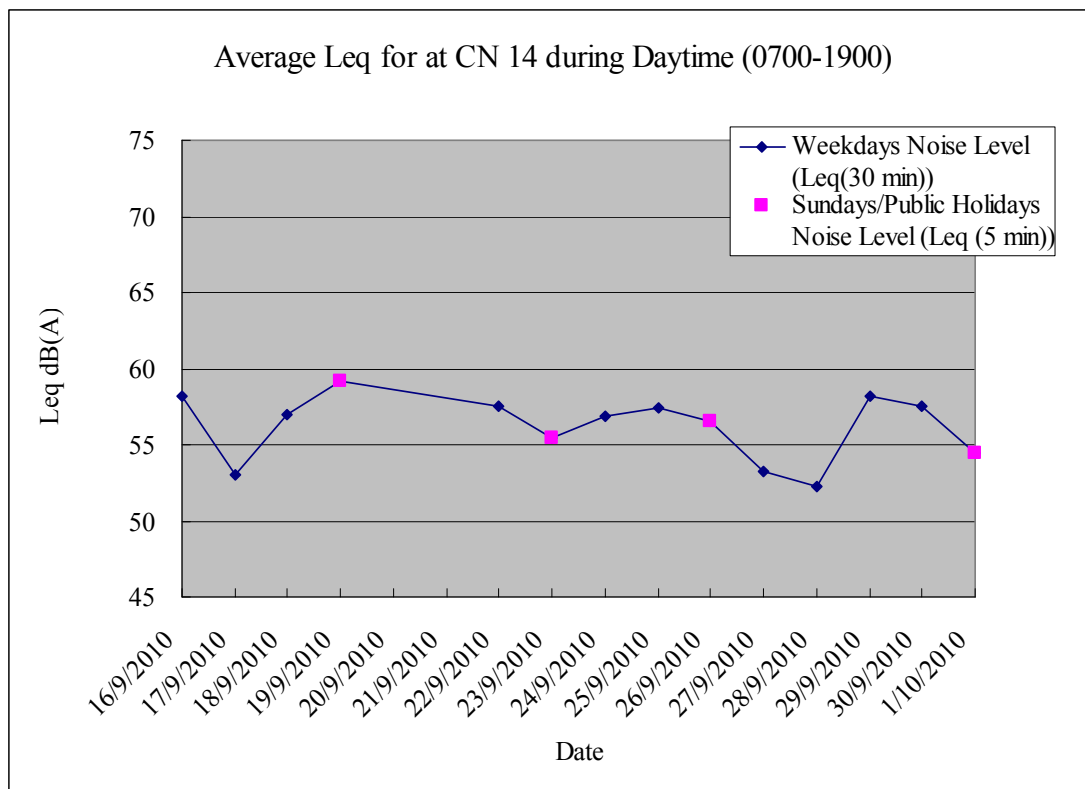
4) Night-time (for all days) Noise Level, dB(A)

Time Slot	Leq, 5min	L10	L90
23:00-23:15	53.4	54.4	52.2
	54.1	56.2	52.3
	53.5	54.5	52.3
23:15-23:30	53.7	54.7	52.2
	53.3	54.3	51.9
	53.9	54.7	52.4
23:30-23:45	53.1	54.0	52.0
	53.3	54.4	52.1
	53.2	54.3	52.0
23:45-00:00	53.8	54.8	52.7
	53.1	54.2	52.0
	53.7	54.8	52.1
00:00-00:15	52.2	53.3	50.8
	53.0	54.1	51.7
	53.2	54.2	52.0
00:15-00:30	53.5	54.6	52.2
	53.6	54.6	52.5
	53.8	54.7	52.8
00:30-00:45	53.1	54.1	52.0
	53.9	55.2	52.6
	53.8	54.7	52.8
00:45:01:00	53.5	54.5	52.5
	53.6	54.4	52.7
	54.0	55.1	52.8
01:00-01:15	53.8	54.7	52.9
	54.1	55.5	52.9
	54.4	55.3	53.4

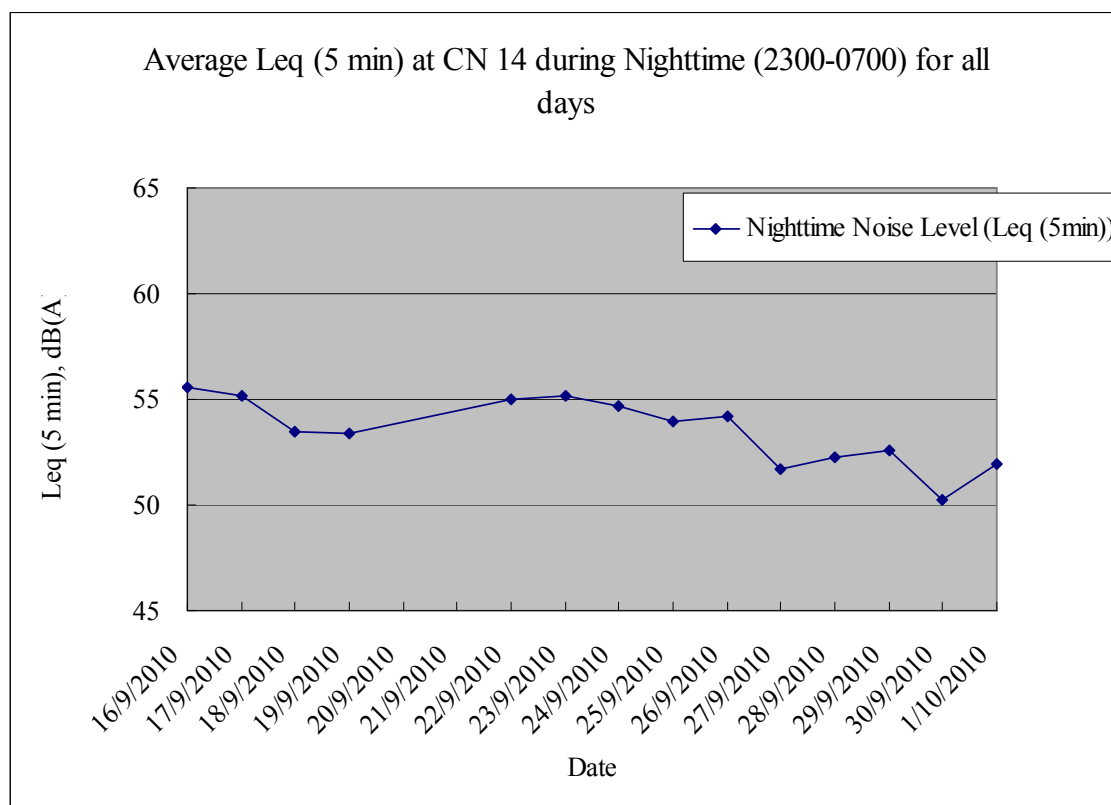
Time Slot	Leq, 5min	L10	L90
01:15-01:30	55.2	56.2	54.0
	54.0	54.9	53.1
	54.0	55.1	52.8
01:30-01:45	53.9	54.8	53.0
	53.7	54.6	52.9
	53.6	54.5	52.7
01:45-02:00	53.7	54.6	52.9
	54.1	55.2	52.8
	53.5	54.4	52.6
02:00-02:15	53.8	54.5	52.9
	53.8	54.7	52.8
	53.8	54.6	52.9
02:15-02:30	53.9	54.8	52.9
	53.7	54.6	52.6
	53.8	54.6	52.8
02:30-02:45	54.8	56.0	53.2
	55.3	56.1	54.2
	55.3	56.1	54.1
02:45-03:00	55.6	56.6	53.4
	55.2	56.6	53.3
	56.6	57.5	55.2
03:00-03:15	55.5	56.5	54.0
	55.5	56.5	53.9
	55.3	56.4	53.5
03:15-03:30	54.8	56.5	52.5
	54.4	55.9	52.5
	54.0	54.4	52.7
03:30-03:45	53.8	54.6	52.6
	53.5	54.4	52.5
	54.9	56.8	52.6
03:45-04:00	54.3	55.3	53.2
	53.7	54.5	52.3
	53.5	54.6	52.4
04:00-04:15	54.1	54.9	53.2
	53.9	54.7	52.5
	53.5	54.4	52.4

Time Slot	Leq, 5min	L10	L90
04:15-04:30	53.1	54.3	52.0
	54.2	55.0	53.1
	55.0	57.2	53.1
04:30-04:45	56.8	58.4	54.9
	56.2	57.5	54.4
	55.5	56.2	54.5
04:45-05:00	55.2	56.6	54.0
	55.1	56.0	53.9
	56.6	57.8	55.1
05:00-05:15	55.1	56.3	53.9
	54.7	56.0	53.5
	55.6	57.6	53.9
05:15-05:30	54.9	56.2	53.6
	54.1	54.8	53.3
	53.7	54.6	52.7
05:30-05:45	53.6	54.3	52.6
	53.3	54.0	52.4
	53.0	53.7	52.2
05:45-06:00	52.9	53.7	52.0
	53.0	53.7	51.6
	53.1	53.8	51.7
06:00-06:15	52.5	53.3	51.2
	51.8	52.6	50.8
	53.2	55.1	50.8
06:15-06:30	52.6	54.1	51.0
	52.4	53.7	50.8
	54.0	56.0	50.6
06:30-06:45	52.4	53.9	50.5
	52.3	53.6	50.5
	53.2	54.6	50.3
06:45-07:00	52.2	53.9	50.2
	52.0	53.6	50.1
	51.7	52.8	50.0
Average	54.1	55.2	52.7
Max	56.8	58.4	55.2
Min	51.7	52.6	50.0

Log average was used.



No monitoring was carried out on 20/9 and 21/9 due to rainfall.



No monitoring was carried out on 20/9 and 21/9 due to rainfall.

Appendix C

Calibration Certificates for Monitoring Equipments

ThermoFisher
SCIENTIFIC
27 FORGE PARKWAY
FRANKLIN MA 02038
TOLL FREE: 866-282-0430
TEL: 508-553-6949
FAX: 508-541-8366
www.thermofisher.com

PDR1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

<u>SERIAL NUMBER:</u>	<u>3893</u>	
<u>CALIBRATION RATIO:</u>	<u>1.007</u>	
<u>AVG. PDR CONCENTRATION:</u>	<u>2.25</u>	<u>mg/m3</u>
<u>MASTER AVG CONCENTRATION:</u>	<u>2.05</u>	<u>mg/m3</u>
<u>PDR BACKGROUND CONCENTRATION:</u>	<u>0.172</u>	<u>mg/m3</u>
<u>PDR BKGRND PRIOR TO CLEANING:</u>	<u>0.379</u>	<u>mg/m3</u>

<u>TEMPERATURE:</u>	<u>69</u>	<u>F</u>
<u>RH:</u>	<u>15</u>	<u>%</u>

CALIBRATION MASTER:	<u>D325</u>
LAST CALIBRATED:	<u>12/8/2009</u>

TECHNICIAN: DMC

DATE: 12/18/2009

ThermoFisher
S C I E N T I F I C
27 FORGE PARKWAY
FRANKLIN MA 02038
TOLL FREE: 866-282-0430
TEL: 508-553-6949
FAX: 508-541-8366
www.thermofisher.com

PDR1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

<u>SERIAL NUMBER:</u>	<u>4239</u>	
<u>CALIBRATION RATIO:</u>	<u>1.003</u>	
<u>AVG. PDR CONCENTRATION:</u>	<u>1.28</u>	<u>mg/m3</u>
<u>MASTER AVG CONCENTRATION:</u>	<u>1.03</u>	<u>mg/m3</u>
<u>PDR BACKGROUND CONCENTRATION:</u>	<u>0.216</u>	<u>mg/m3</u>

<u>TEMPERATURE:</u>	<u>72</u>	<u>F</u>
<u>RH:</u>	<u>39</u>	<u>%</u>

CALIBRATION MASTER:	<u>D325</u>
LAST CALIBRATED:	<u>29/7/2008</u>

TECHNICIAN: R.A.

DATE: 26/8/2008

ThermoFisher
SCIENTIFIC
27 FORGE PARKWAY
FRANKLIN MA 02038
TOLL FREE: 866-282-0430
TEL: 508-553-6949
FAX: 508-541-8366
www.thermofisher.com

PDR1000 CALIBRATION CERTIFICATE

This calibration is traceable to the National Institute of Standards and Testing

<u>SERIAL NUMBER:</u>	<u>4243</u>	
<u>CALIBRATION RATIO:</u>	<u>1</u>	
<u>AVG. PDR CONCENTRATION:</u>	<u>1.29</u>	<u>mg/m3</u>
<u>MASTER AVG CONCENTRATION:</u>	<u>1.03</u>	<u>mg/m3</u>
<u>PDR BACKGROUND CONCENTRATION:</u>	<u>0.239</u>	<u>mg/m3</u>

<u>TEMPERATURE:</u>	<u>72</u>	<u>F</u>
<u>RH:</u>	<u>39</u>	<u>%</u>

CALIBRATION MASTER:	<u>D325</u>
LAST CALIBRATED:	<u>29/7/2008</u>

TECHNICIAN: R.A.

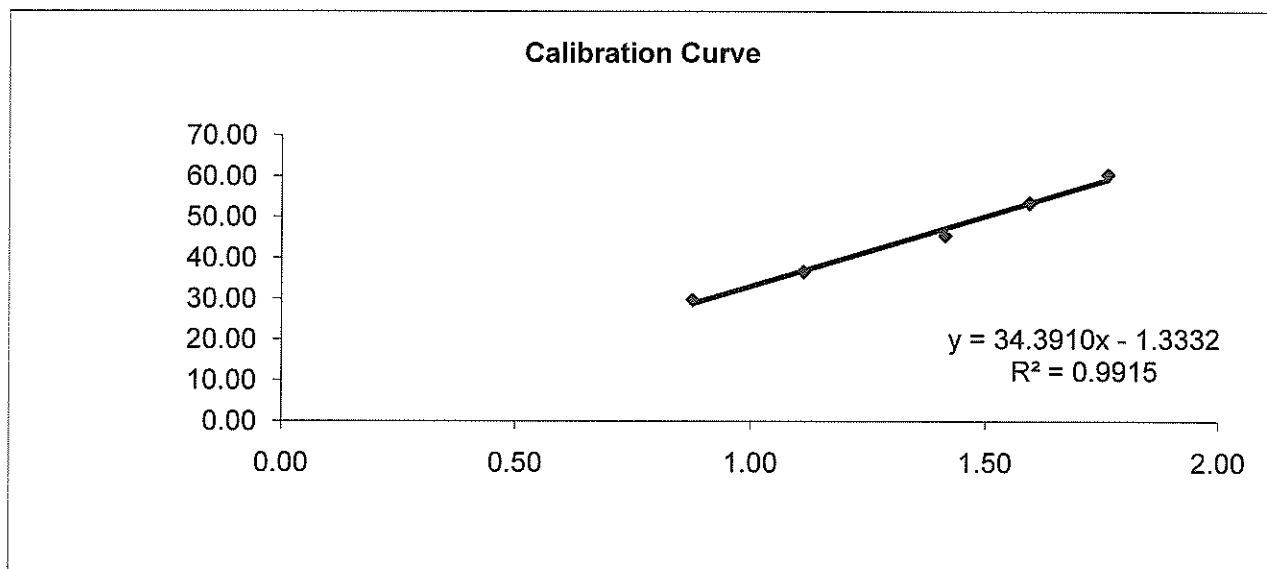
DATE: 26/8/2008

Ove Arup Partners (Hong Kong) Limited

High Volume Air Sampler Calibration Worksheet

Calibration date	14-Jul-10	Barometric pressure	754.5 mm Hg
Next Calibration date	10-Jan-11	Temperature (°C)	28.7 °C
	AM4 - DD110 LOT 482, Wang Toi		
Sampler location	Shan	Temperature (K)	301.7 K
Sampler model	TE-5170	P _{std}	760 mm Hg
Sampler serial number	520	T _{std}	298 K
Calibrator model	GMW-2535		
Calibrator serial number	1378		
Slope of the standard curve, m _s	2.00078		
Intercept of the standard curve, b _s	-0.01075		

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.10	30.00	0.88	29.71
7	5.00	37.00	1.11	36.64
10	8.10	46.00	1.41	45.55
13	10.30	54.00	1.59	53.47
18	12.60	61.00	1.76	60.41



Linear Regression

Sampler slope (m) : **34.3910**
 Sampler intercept (b) : **-1.3332**
 Correlation coefficient (R²) : **0.9915**

Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by: _____

Date: 14, 7, 10

Checked by: _____

Date: 15 July 10

Approved by: _____

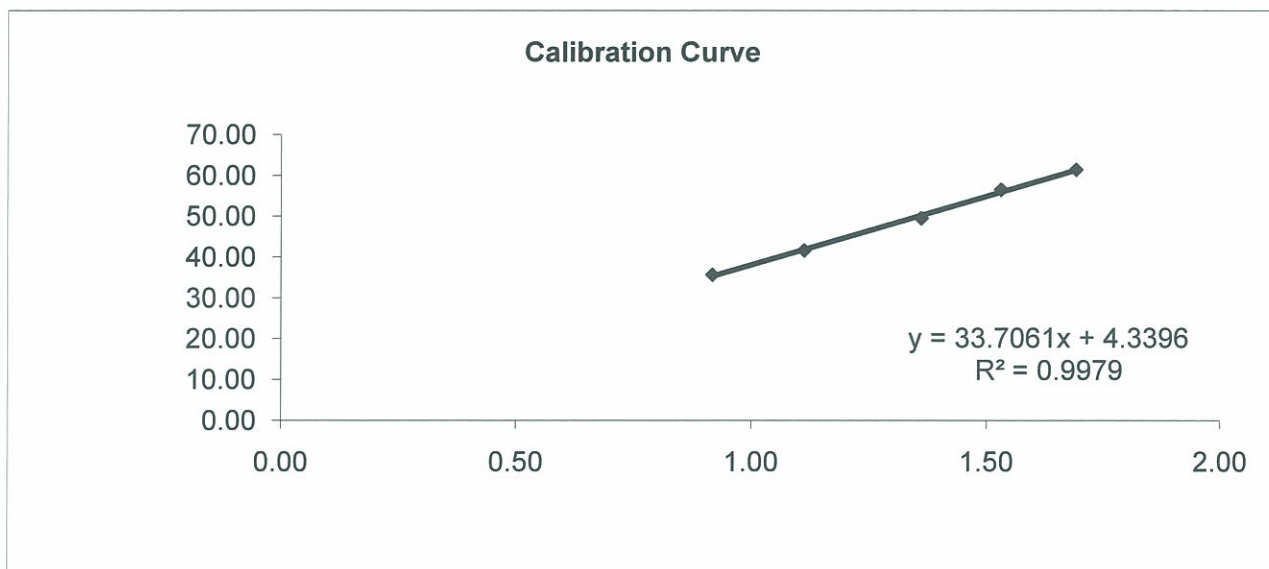
Date: 16 July 2010

Ove Arup Partners (Hong Kong) Limited

High Volume Air Sampler Calibration Worksheet

Calibration date	24-Jun-10	Barometric pressure	753.8 mm Hg
Next Calibration date	21-Dec-10	Temperature (°C)	28.5 °C
Sampler location	AM5 Leung Uk Tsuen Squats	Temperature (K)	301.5 K
Sampler model	TE-5170	P _{std}	760 mm Hg
Sampler serial number	1276	T _{std}	298 K
Calibrator model	GMW-2535		
Calibrator serial number	1378		
Slope of the standard curve, m _s	2.00078		
Intercept of the standard curve, b _s	-0.01075		

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.40	36.00	0.92	35.64
7	5.00	42.00	1.11	41.58
10	7.50	50.00	1.36	49.51
13	9.50	57.00	1.53	56.44
18	11.60	62.00	1.69	61.39



Linear Regression

Sampler slope (m) : **33.7061**
 Sampler intercept (b) : **4.3396**
 Correlation coefficient (R²) : **0.9979**

Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by: _____

Date: 24-6-10

Checked by: _____

Date: 24-06-10

Approved by: _____

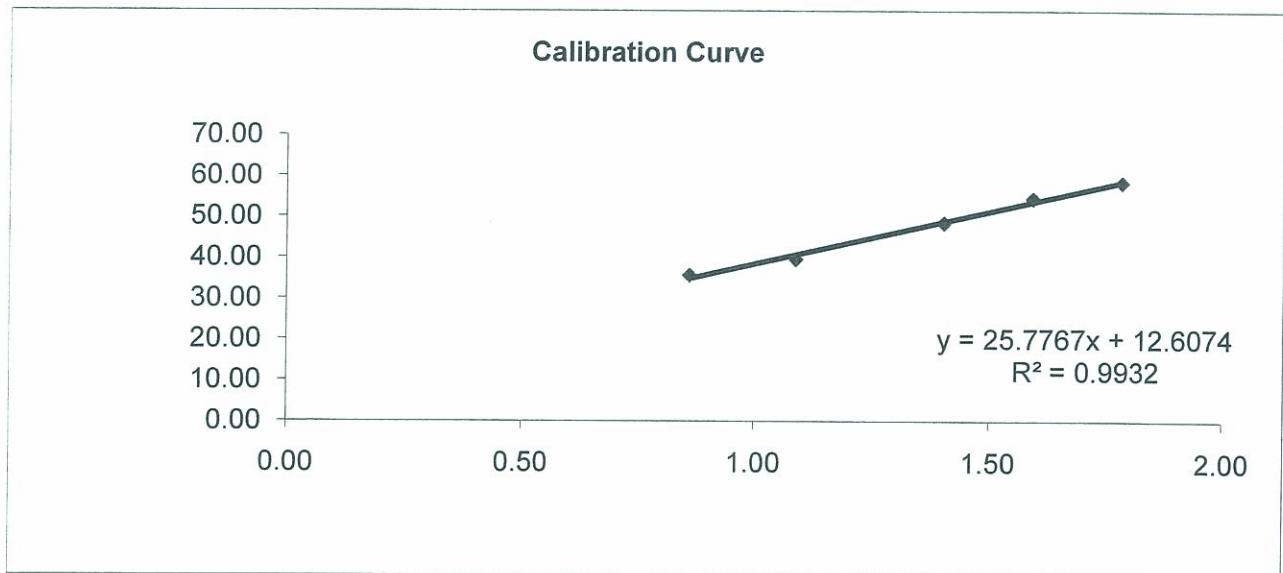
Date: 29/06/10

Ove Arup Partners (Hong Kong) Limited

High Volume Air Sampler Calibration Worksheet

Calibration date	30-Jul-10	Barometric pressure	753 mm Hg
Next Calibration date	26-Jan-11	Temperature (°C)	28.5 °C
Sampler location	AM7 - Tse Uk Tsuen	Temperature (K)	301.5 K
Sampler model	TE-5170	P _{std}	760 mm Hg
Sampler serial number	1763	T _{std}	298 K
Calibrator model	GMW-2535		
Calibrator serial number	1378		
Slope of the standard curve, m _s	2.00078		
Intercept of the standard curve, b _s	-0.01075		

Resistance Plate No.	Manometer Reading (inch H ₂ O)	Flow Recorder Reading (CFM)	Calculated Q _{std} (m ³ /min)	Continuous Flow Recorder Reading IC (CFM)
5	3.00	36.00	0.86	35.63
7	4.80	40.00	1.09	39.58
10	8.00	49.00	1.40	48.49
13	10.30	55.00	1.59	54.43
18	12.90	59.00	1.78	58.39



Linear Regression

Sampler slope (m) : **25.7767**
 Sampler intercept (b) : **12.6074**
 Correlation coefficient (R²) : **0.9932**

Correlation coefficient is greater than 0.9900 and the calibration result is accepted.

Performed by: _____

Date: 30-7-2010

Checked by: _____

Date: 30th July 2010

Approved by: _____

Date: 30 July 2010



CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-2

Page 1 of 2

Calibration of :

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2718881		2698679

Client :

EDMS Tech Ltd
1009, 10/F World Wide House
19 Des Douex Road, Central
Hong Kong

Calibration Conditions :

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

Test Specifications :

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

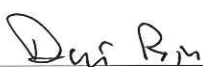
The measurements has been performed with the assistance of :
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain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

Test Result :

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

Date of Calibration : 21 June, 2010
Calibrated By :

Certificate issued : 22 June, 2010
Approved signatory :


Dai Bin


Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-2

Page 2 of 2

Results :

List of performed (sub) test with test status:

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

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

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

Calibration Equipment :

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

Calibrated By : *Dan Bm*
Date : 21 June 2010

Checked By : *Janly*
Date : 22 June, 2010

CERTIFICATE OF CALIBRATION**Certificate No. :** 2KS100612-3**Page** 1 **of** 2**Calibration of :**

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2718882		2698680

Client :

EDMS Tech Ltd
1009, 10/F World Wide House
19 Des Douex Road, Central
Hong Kong

Calibration Conditions :

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

Test Specifications :

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

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

Test Result :

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

Date of Calibration : 21 June, 2010

Calibrated By :

Certificate issued : 22 June, 2010

Approved signatory :



Dai Bin



Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-3

Page 2 of 2
Results :

List of performed (sub) test with test status:

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

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

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

Calibration Equipment :

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

 Calibrated By : *Don Bm*
 Date : 21 June 2010

 Checked By : *Janly*
 Date : 22 June, 2010



CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-10

Page 1 of 2

Calibration of :

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2718889		2698649

Client :

EDMS Tech Ltd
1009, 10/F World Wide House
19 Des Douex Road, Central
Hong Kong

Calibration Conditions :

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

Test Specifications :

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

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

Test Result :

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

Date of Calibration : 21 June, 2010

Calibrated By :

Certificate issued : 22 June, 2010

Approved signatory :

Dai Bin

Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-10

Page 2 of 2

Results :

List of performed (sub) test with test status:

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

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

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

Calibration Equipment :

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

Calibrated By : *Ami B.M*
Date : 21 June 2010

Checked By : *Andy*
Date : 22 June, 2010

CERTIFICATE OF CALIBRATION**Certificate No. :** 2KS100612-12**Page** 1 **of** 2**Calibration of :**

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2718891		2698651

Client :

EDMS Tech Ltd
1009, 10/F World Wide House
19 Des Douex Road, Central
Hong Kong

Calibration Conditions :

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

Test Specifications :

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

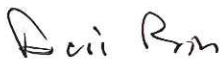
The measurements has been performed with the assistance of :
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain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

Test Result :

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

Date of Calibration : 21 June, 2010

Calibrated By :



Dai Bin

Certificate issued : 22 June, 2010

Approved signatory :



Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-12

Page 2 of 2
Results :

List of performed (sub) test with test status:

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

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

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

Calibration Equipment :

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

 Calibrated By : *David B. M.*
 Date : 21 June 2010

 Checked By : *Janey*
 Date : 22 June, 2010



CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-4

Page 1 **of** 2

Calibration of :

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2718883		2698681

Client :

EDMS Tech Ltd
1009, 10/F World Wide House
19 Des Douex Road, Central
Hong Kong

Calibration Conditions :

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

Test Specifications :

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

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

Test Result :

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

Date of Calibration : 21 June, 2010
Calibrated By :

Certificate issued : 22 June, 2010
Approved signatory :


Dai Bin


Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-4

Page 2 **of** 2

Results :

List of performed (sub) test with test status:

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

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

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

Calibration Equipment :

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

 Calibrated By : *David B m*
 Date : 21 June 2010

 Checked By : *Janey*
 Date : 22 June, 2010

CERTIFICATE OF CALIBRATION**Certificate No. :** 2KS100612-11**Page** 1 **of** 2**Calibration of :**

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2718890		2698650

Client :

EDMS Tech Ltd
1009, 10/F World Wide House
19 Des Douex Road, Central
Hong Kong

Calibration Conditions :

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

Test Specifications :

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

The measurements has been performed with the assistance of :

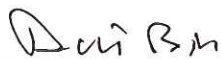
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result :

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

Date of Calibration : 21 June, 2010

Calibrated By :



Dai Bin

Certificate issued : 22 June, 2010

Approved signatory :



Jacky Leung

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced after written permission.

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-11

Page 2 **of** 2

Results :

List of performed (sub) test with test status:

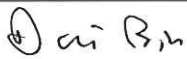
"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

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

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

Calibration Equipment :

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

 Calibrated By : 
 Date : 21 June 2010

 Checked By : 
 Date : 22 June, 2010

Appendix D

Figures

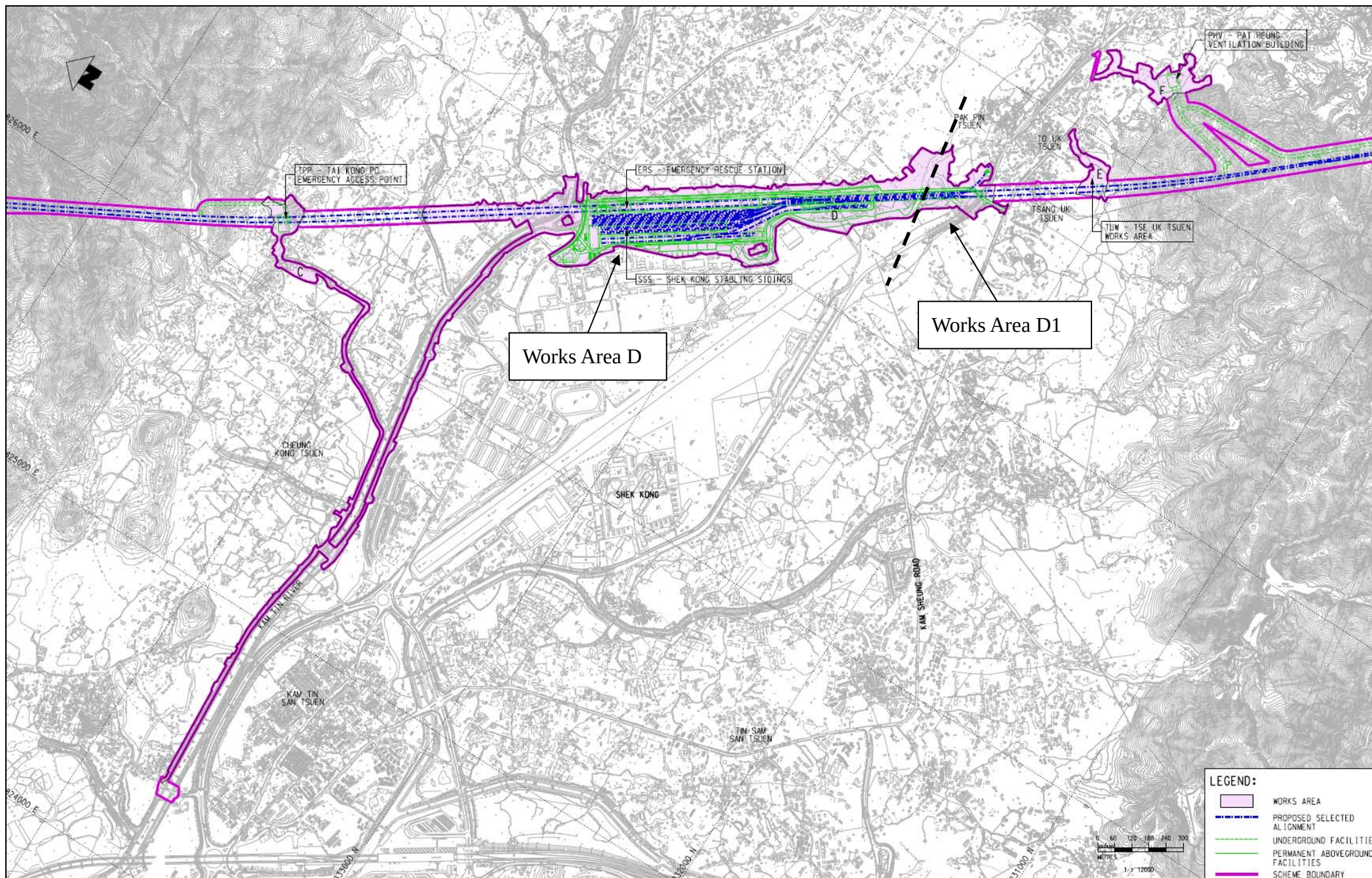


Figure 1 – Works Areas D and E

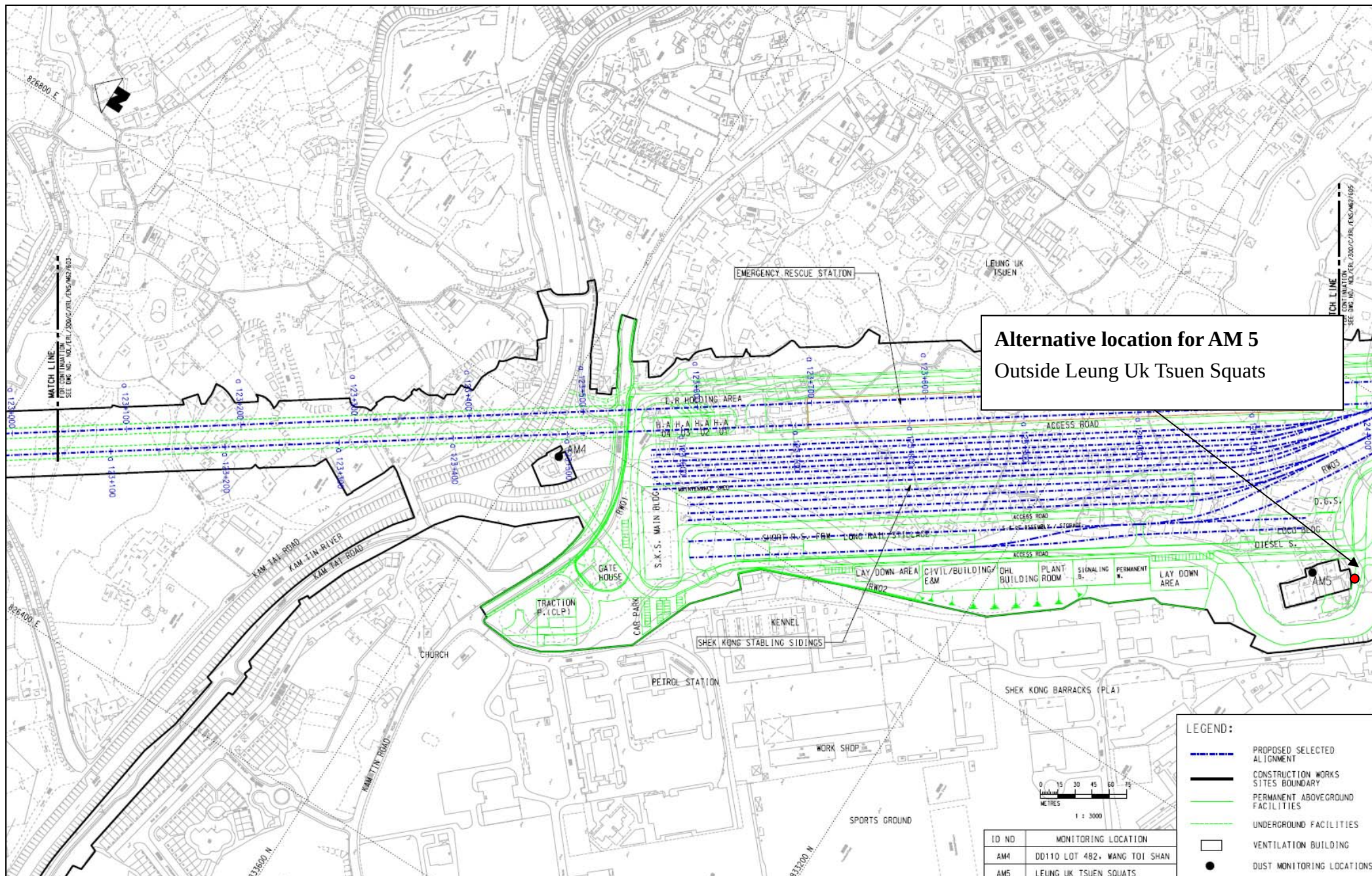
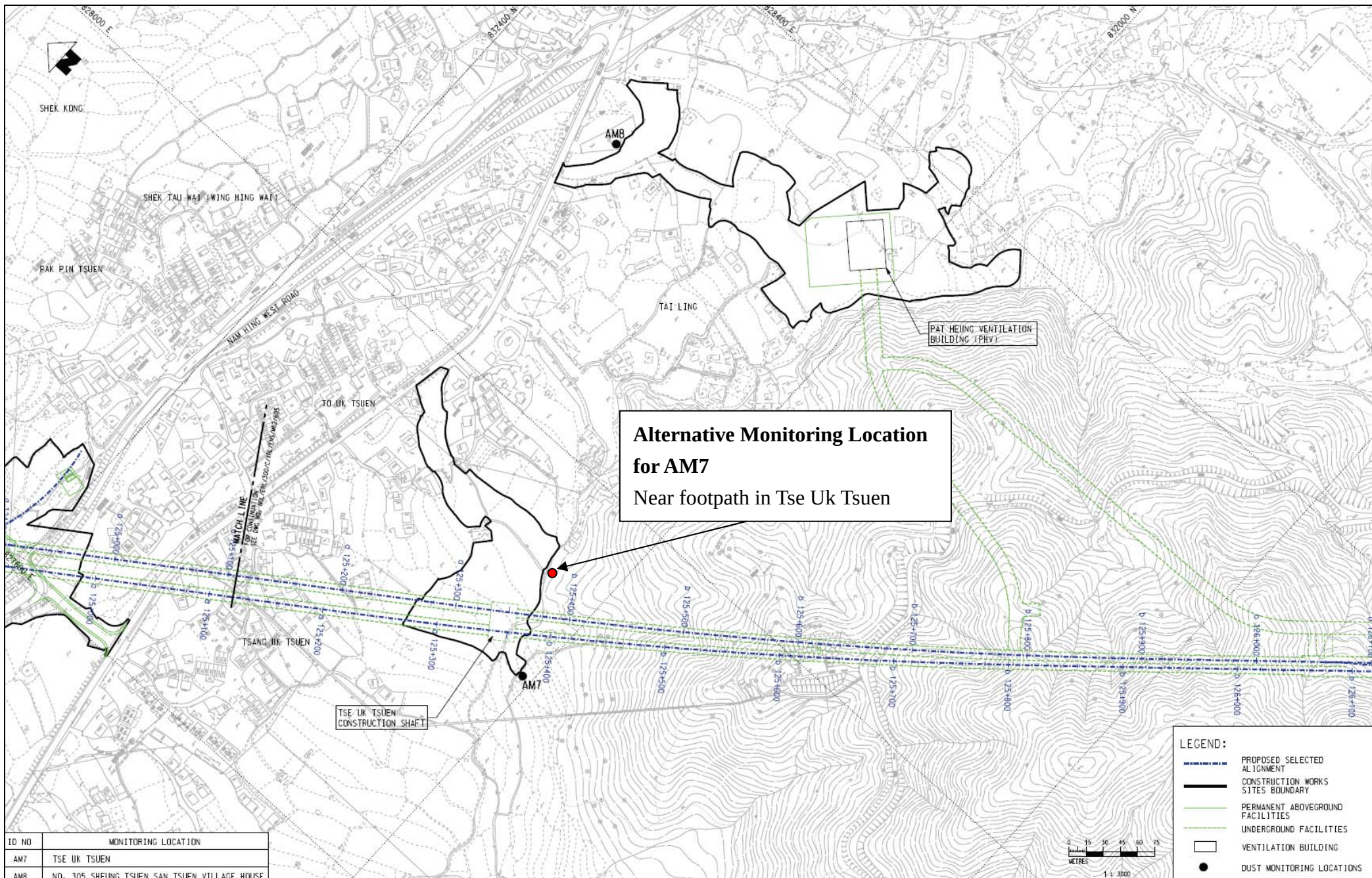


Figure 2 – Dust Monitoring Location



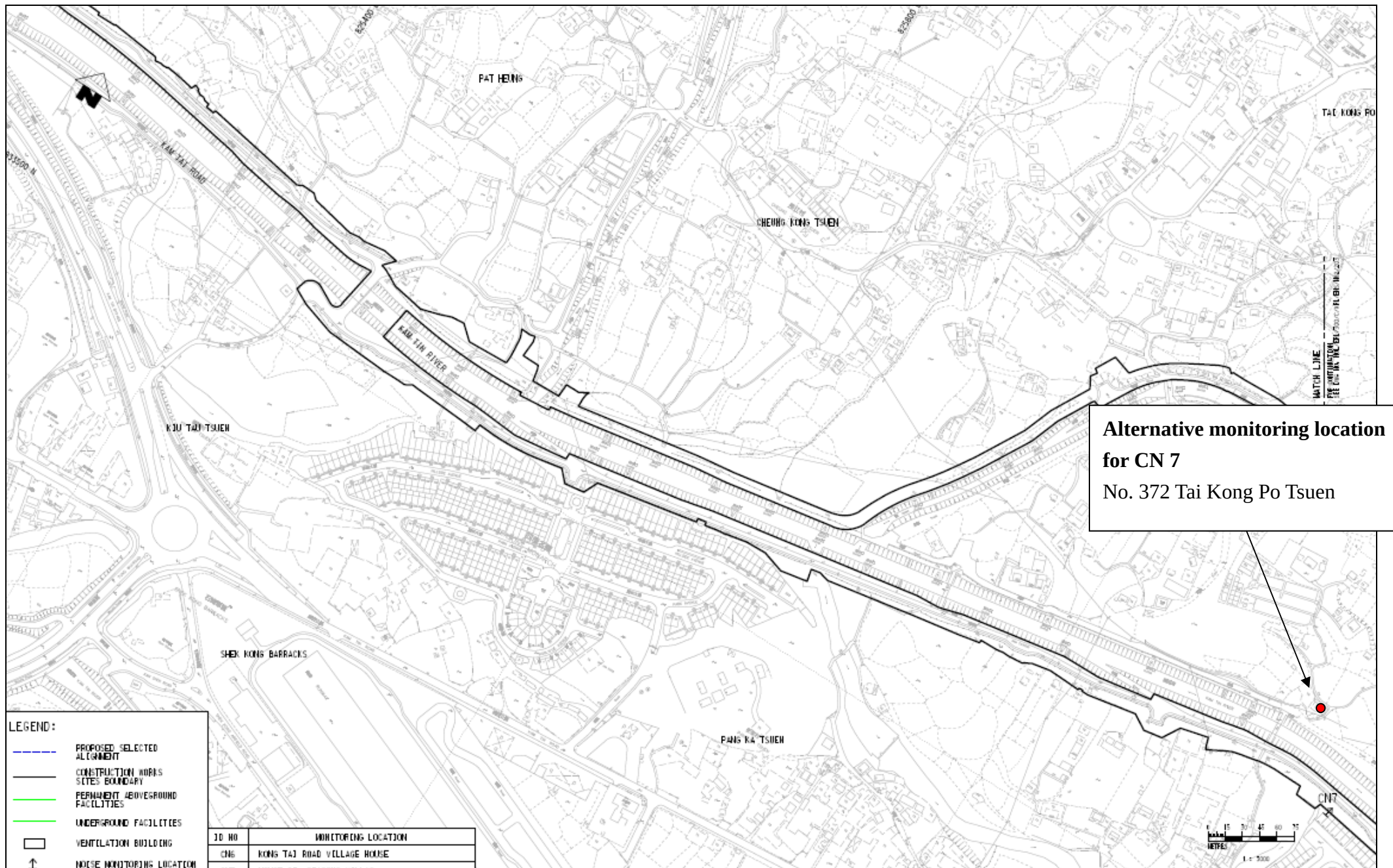


Figure 2 – Noise Monitoring Locations

