CONTRACT NO: HK/2011/07

WAN CHAI DEVELOPMENT PHASE II AND CENTRAL- WAN CHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 2)

BASELINE MONITORING REPORT FOR EP-376/2009 (REV.1)

CLIENTS:

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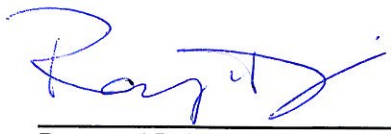

Raymond Dai
Environmental Team Leader

DATE:

10 June 2015

ENVIRON

Ref.: AACWBIECEM00_0_6742L.15

10 June 2015

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

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Baseline Monitoring Report for EP-376/2009 (Revision 1)

Reference is made to the Environmental Team's submission of the captioned Baseline Monitoring Report (Revision 1) for EP-376/2009 dated 10 June 2015 and received by e-mail on 10 June 2015.

Please be informed that we have no adverse comment on the captioned submission.

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

Yours sincerely,

David Yeung
Independent Environmental Checker

c.c.	CEDD	Mr. Jason Cheung	by fax: 2577 5040
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Executive Summary

i. This is the Baseline Monitoring Report for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit EP-376/2009. The baseline air quality and noise monitoring were carried out at two designated air quality monitoring stations and one designated noise monitoring station respectively for consecutive 14 days as described in the updated Environmental Monitoring and Audit (EM&A) Manual under Environmental Permit EP-376/2009.

ii. This report presents the baseline air quality and noise monitoring findings and information record during the period from 6 December 2014 to 19 December 2014. No construction activities under designated Project works for EP-376/2009 was undertaken during the baseline monitoring period.

iii. Air quality monitoring was conducted and recorded in terms of 1-hour Total Suspended Particulates (TSP) and 24-hour TSP.

iv. The average 1-hour and 24-hour TSP levels at the two air quality monitoring stations are summarized as shown in **Table I**. The Action and Limit Levels for air quality impact monitoring were derived based on the criteria adopted from the updated EM&A Manual.

Table I Summary of Averaged 1-hour and 24-hour TSP Levels

Monitoring Station	1-hour TSP Level in μg/m^3		24-hour TSP Level in μg/m^3	
	Average (μg/m^3)	Range (μg/m^3)	Average (μg/m^3)	Range (μg/m^3)
CMA5b	138.1	80.5 – 239.8	122.9	23.2 – 195.1
CMA6a	127.6	76.8 – 241.7	118.5	63.9 – 183.6

v. The average baseline noise levels are summarized as shown in **Table II**

Table II Summary of Averaged Baseline Noise Levels

Daytime baseline noise level at monitoring Station M1a	Average Leq(30min),dB(A)	Range Leq(30min),dB(A)
Measured noise level during day-time 0700hr-1900hr on normal weekdays	72.7	72.1 – 73.1

Restricted hour baseline noise level at monitoring Station M1a	Average Leq(5min),dB(A)	Range Leq(5min),dB(A)
Measured noise level during evening 1900hr to 2300hr on normal weekdays	72.0	71.3 - 73.0
Measured noise level during general holidays (including Sundays) during day-time 0700hr to 1900hr	70.8	70.5 – 71.2
Measured noise level during general holidays (including Sundays) during evening 1900hr to 2300hr	70.7	70.4 – 71.0

1 Introduction

1.1 Background

1.1.1. The Project is located mainly at Wan Chai habourfront area, Hong Kong. The location of the project is shown **Figure 1.1**

1.1.2. The Designated Project covered by the Environmental Permit No. EP-376/2009 are located mainly in the WDII project starts at the west boundary of CRIII and connects to the existing Hung Hing Road at the east, as shown in **Figure 1.1**.

1.1.3. The scope of the Projects covered by the Environmental Permit No. EP-376/2009 includes

- DP2 – Road P2 and other roads which are classified as primary/ district distributor road
- The major element of the future ground level road system is Road P2, which runs east-west from Central to connections with the existing road network in Wan Chai North. Road P2 is a dual 2- lane primary distributor that serves both local east-west movements and the distribution of northsouth traffic movements.
- The Road P2 alignment has been planned to run over the top of the Trunk Road tunnel through CRIII and the HKCEC water channel, to the connection with Fleming Road, in order to minimize the overall road “footprint” and area of land sterilized by highway infrastructure. New junctions are formed along Road P2 with the north-south roads.
- Along the Wan Chai shoreline, the existing Hung Hing Road in front of the Wan Chai North PTI is realigned to connect with the new Road P2 / Fleming Road junction, but the current Hung Hing Road alignment in front of the Wan Chai Sports Ground is retained. The retention further east of existing Hung Hing Road alignment and existing Hung Hing Road Flyover means there is no intrusion by new roads into the new Wan Chai waterfront area.
- The at-grade road network also provides connections to slip roads of the Trunk Road at Wan Chai North area.
- All existing road connections from Wan Chai North to the Wan Chai area south of Gloucester Road are maintained.

1.2 Purpose of Baseline Monitoring Report

1.2.1. The purpose of this report is to review the baseline conditions of air quality and noise levels at along the Project boundary, and to establish baseline levels for air quality and noise levels in accordance with the updated EM&A Manual. These levels would be used as the basis for assessing environmental impact and compliance during construction of the corresponding component the Project.

1.2.2. This baseline monitoring proposal presents the baseline monitoring requirements, methodologies and monitoring results at two air quality monitoring locations and one noise monitoring station as described in the updated EM&A Manual.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at two air quality monitoring stations should be established by conducting baseline 1-hour and 24-hour TSP monitoring for consecutive 14 days.

2.2 Monitoring Equipment

2.2.1 The 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS), located at each designated monitoring station. The HVS meets all the requirements of the updated EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in **Table 2.1**.

Table 2.1 Air Quality Monitoring Equipment

Equipment	Brand and model
Portable direct reading dust meter	Sensidyne- 80570 Dust Monitor (Serial No. R18439)
High Volume sampler	Tisch Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. TE-5170)

2.3 Monitoring Locations

2.3.1 In accordance with the updated EM&A Manual, the air quality monitoring stations for baseline air quality monitoring is presented in **Table 2.2** and shown in **Figure 2.1**.

Table 2.2 Baseline Air Quality Monitoring Stations Monitoring Location

Identification No.	Location	Level (in terms of no. of floor)
CMA5b	Pedestrian Plaza	1/F (Podium)
CMA6a	WDII PRE Site Office	1/F

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 The monitoring parameters, frequency and duration of air quality monitoring are summarized in **Table 2.3**.

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Parameter Frequency and Duration
1hr TSP	1-hour TSP 3 times (at three consecutive hours) per day while the highest dust impact was expected, for consecutive 14 days
24hr TSP	Daily, for consecutive 14 days

2.5 Monitoring Methodology

2.5.1 24-hour TSP Monitoring

(a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.

(i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.

(ii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.

(iii) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.

(iv) No furnace or incinerator flues nearby.

(v) Airflow around the sampler was unrestricted.

(vi) Permission was obtained to set up the samplers and access to the monitoring stations.

(vii) A secured supply of electricity was obtained to operate the samplers.

(viii) The sampler was located more than 20 meters from any dripline.

(ix) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.

(x) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.

(b) Preparation of Filter Papers

(i) Glass fiber filters, of size 8" x 10" were labelled and sufficient filters that were clean and without pinholes were selected.

(ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

(iii) All filter papers were prepared and analyzed by Pilot Testing Ltd. and has comprehensive quality assurance and quality control programmes.

(c) Field Monitoring

(i) The power supply was checked to ensure the HVS works properly.

(ii) The filter holder and the area surrounding the filter were cleaned.

(iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.

(iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.

(v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.

(vi) Then the shelter lid was closed and was secured with the aluminum strip.

(ix) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.

(x) The initial elapsed time was recorded.

(xi) At the end of sampling, the final flow rate of the HVS was checked and recorded.

(xii) The final elapsed time was recorded.

(xiii) The sampled filter was removed carefully and folded in half-length so that only surfaces with collected particulate matter were in contact.

(xiv) It was then placed in a clean plastic envelope and sealed.

(xv) All monitoring information was recorded on a standard data sheet.

(xvi) Filters were then sent to laboratory for analysis.

(d) Maintenance and Calibration

(i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.

(ii) HVSs were calibrated at 2-month intervals using TISCH TE-5025A Calibration Kit prior to the commencement of baseline monitoring.

(iii) Calibration certificate of the HVSs will be provided to RE and IEC for approval prior to commencement of baseline monitoring.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:

(i) Turn the power on.

(ii) Close the air collecting opening cover.

(iii) Push the "TIME SETTING" switch to [BG]

(iv) Push "START/STOP" switch to perform background measurement for 6 seconds.

(v) Turn the knob at SENSI ADJ position to insert the light scattering plate.

(vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.

(vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.

(viii) Pull out the knob and return it to MEASURE position.

(ix) Push the "TIME SETTING" switch the time set in the display to 1 hour.

(x) Lower down the air collection opening cover.

(xi) Push "START/STOP" switch to start measurement.

(b) Maintenance and Calibration

(i) The direct reading dust meter was calibrated at 2-years interval and checked with HVS yearly to determine the accuracy and validity of the results measured. Calibration certificates will be provided to RE and IEC for approval prior to commencement of baseline monitoring.

(ii) Checking of direct reading dust meter will be carried out on-site in order to determine the conversion factor between the direct reading dust meter and the standard equipment, HVS. The calibration check is to be considered valid if the calculated correlation coefficient is >0.990.

2.6 Results and Observations

2.6.1 The baseline 1-hour and 24-hour TSP monitoring were carried out from 6 December 2014 to 19 December 2014 for consecutive 14 days and the weather were mostly sunny with traces of rainfall. Major dust sources were from nearby traffic emissions and construction sites.

2.6.2 The baseline monitoring results for 1-hour TSP and 24-hour TSP are summarized in **Table 2.4** and **Table 2.5** respectively. Detailed air quality monitoring results are presented in **Appendix C**.

Table 2.4 Summary of 1-hour TSP Baseline Monitoring Results

Parameter	Monitoring Location	Average (μg/m^3)	Range (μg/m^3)
1-hour TSP Level in μg/m^3	CMA5b	138.1	80.5 – 239.8
	CMA6a	127.6	76.8 – 241.7

Table 2.5 Summary of 24-hour TSP Baseline Monitoring Results

Parameter	Monitoring Location	Average (μg/m^3)	Range (μg/m^3)
24-hour TSP Level in μg/m^3	CMA5b	122.9	23.2 – 195.1
	CMA6a	118.5	63.9 – 183.6

2.7 Event and Action Levels

2.7.1 The Action and Limit Levels for air quality impact monitoring were based on the criteria adopted from the updated EM&A Manual as presented in **Table 2.6**

Table 2.6 Derivation of Action and Limit Levels for Air Quality

Parameters	Action Level	Limit Level
24-hour TSP Level in µg/m^3	For baseline level ≤ 200 µg/m^3, Action level = (baseline level * 1.3 + Limit level)/2; For baseline level > 200µg/m^3, Action level = Limit level	260 µg/m^3
1-hour TSP Level in µg/m^3	For baseline level ≤ 384µg/m^3, Action level = (baseline level * 1.3 + Limit level)/2; For baseline level > 384µg/m^3, Action level = Limit level	500 µg/m^3

2.7.2 The derived Action and Limit levels are presented in **Table 2.7.**

Table 2.7 Derived Action and Limit Levels for Air Quality

Parameter	Monitoring Station	Action Level (µg/m^3)	Limit Level (µg/m^3)
1-hour TSP Level in µg/m^3	CMA5b	339.7	500
	CMA6a	333.0	500
24-hour TSP Level in µg/m^3	CMA5b	209.9	260
	CMA6a	207.1	260

3 NOISE MONITORING

3.1 Monitoring Requirements

In accordance with the updated EM&A Manual, baseline noise monitoring at one monitoring location shall be conducted, for consecutively 14 days, to obtain background noise levels at the area.

3.2 Monitoring Equipment

3.2.1 Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in **Table 3.1**.

Table 3.1 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	Larson Davis Sound Level Expert LxT1 (Serial No.: 0003737)
Acoustic Calibrator	Rion NC-73 (Serial No: 10465798)

3.3 Monitoring Locations

3.3.1 In accordance with the updated EM&A Manual, the noise monitoring stations for baseline noise monitoring is presented in **Table 3.2** and shown in **Figure 3.1**.

Table 3.2 Baseline Noise Monitoring Stations

Monitoring Location	Description	Level (in terms of no. of floor)
M1a	Harbour Road Sports Centre	3/F

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 The monitoring parameters, frequency and duration of noise monitoring are summarized in **Table 3.3.**

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Time Period	Duration, min	Parameters
0700hr to1900hr on normal weekdays	30	Leq(A)
Time period other than 0700hr to 1900hr on normal weekdays	5	

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

(a) Façade measurements were made at the monitoring locations.

(b) The battery condition was checked to ensure the correct functioning of the meter.

(c) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

(i) frequency weighting: A

(ii) time weighting: Fast

(iii) time measurement: Leq(30-minutes) were recorded for the period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5-minutes) were recorded.

(d) Prior to the noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1. 0 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

3.5.2 Maintenance and Calibration

(a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.

(b) The sound level meter and calibrator were checked and calibrated at yearly intervals.

(c) Calibration certificates of the sound level meters and acoustic calibrators will be provided to RE and IEC for approval prior to commencement of baseline monitoring.

3.6 Results and Observations

3.6.1 The baseline noise monitoring were carried out from 6 December 2014 to 19 December 2014 for consecutive 14 days and the weather were mostly sunny with traces of rainfall. During the baseline monitoring period, observation from current routine impact monitoring for Wan Chai Development Phase II and Central-Wan Chai Bypass under Environmental Permit EP-364/2009/C indicates the dominant noise sources observed were from community noises, nearby traffic emissions while the contribution from nearby construction sites was considered to be minimal with mitigation measures implemented on site.

3.6.2 Baseline noise monitoring at the same monitoring station – M1a was originally conducted in year 2009 for the Wan Chai Development Phase II and Central WanChai Bypass Project prior to Project commencement and the baseline noise level was subsequently reviewed in year April 2011. As the major construction activities undertaken at Wan Chai area during the baseline monitoring period were only marine based activities in 2011, the baseline monitoring was conducted at selected time period without construction activities. The baseline noise level review report conducted in 2011 is presented in Appendix E.

3.6.3 According to the findings and observations from the baseline monitoring in year 2011, the dominant noise source identified during the baseline capturing period were community noise and traffic and dominant noise sources of similar origins were observed during the current baseline monitoring period.

3.6.4 The current measured baseline noise level was found comparable to the baseline condition obtained in year 2011. No direct information indicating cumulative noise impact from nearby construction works was identified during current baseline monitoring.

3.6.5 The baseline noise monitoring results are summarized in **Table 3.4** and **Table 3.5** respectively. Detailed noise monitoring results are presented in **Appendix D**.

Table 3.4 Summary of Baseline Noise Monitoring Results (0700-1900hrs on normal weekdays)

M1a	Leq(30-min), dB(A)	
	Average	Range
Measured noise level during day-time 0700hr-1900hr on normal weekdays	72.7	72.1 – 73.1

Table 3.5 Summary of Baseline Noise Monitoring Results (Time period other than 0700-1900hrs on normal weekdays

M1a	Leq(5-min), dB(A)	
	Average	Range
Measured noise level during evening 1900hr to 2300hr on normal weekdays	72.0	71.3 - 73.0
Measured noise level during general holidays (including Sundays) during day-time 0700hr to 1900hr	70.8	70.5 – 71.2
Measured noise level during general holidays (including Sundays) during evening 1900hr to 2300hr	70.7	70.4 – 71.0

3.7 Event and Action Levels

3.7.1 The Action and Limit Levels of noise monitoring have been set in accordance with the criteria specified in the updated EM&A Manual as shown in **Table 3.6** below.

Table 3.6 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700 – 1900 hours on normal weekdays	When one documented complaint is received	75 dB(A) *

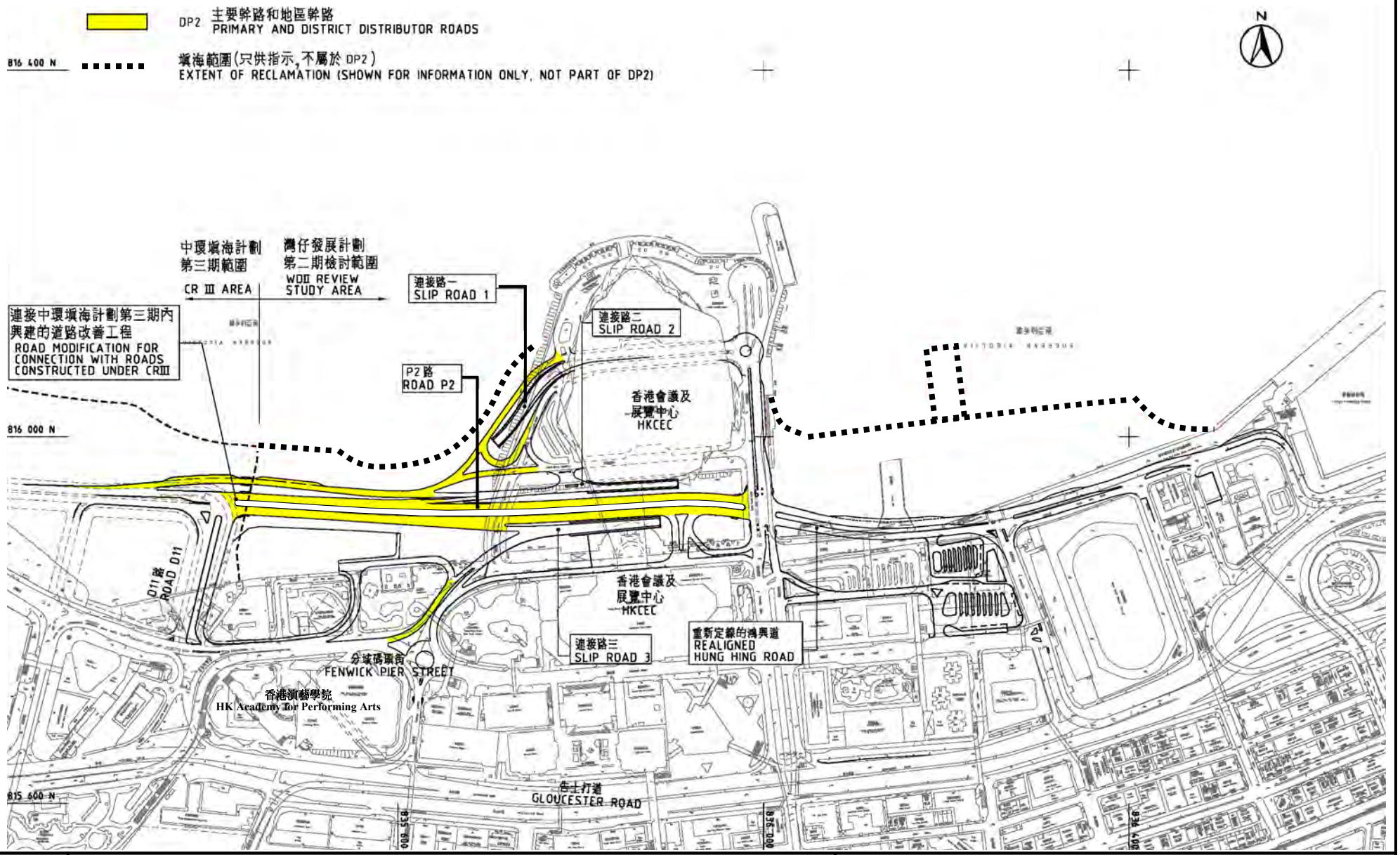
Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.
*The limit level shall be 70 dB(A) and 65 dB(A) for educational institute during normal teaching periods and school examination periods, respectively.

4 Conclusions

4.1 Baseline air quality and noise monitoring were carried out from 6 December 2014 to 19 December 2014 at two air quality monitoring locations and one noise monitoring location. The Action and Limit Levels for air quality were derived from the baseline monitoring results and were based on the criteria adopted from the updated EM&A Manual. The Action Levels for construction noise is based on documented complaints received, while the Limit Level is based on the level at a specific limit according to the Updated EM&A Manual.

Figure 1.1

Project Layout



Project Title : Road P2 and other roads which are classified as primary/district distributor roads (referred to as "DP2" in the WDII&CWB EIA Report)
工程項目名稱 : P2 路及其他分類爲主要幹路或地區幹路的道路(WDII&CWB 環評報告內稱"DP2")
Environmental Permit No. : EP-376/2009
環境許可證編號 : EP-376/2009

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

(This figure was prepared based on Figure 1.2b of the WDII&CWB EIA report (Register No.: AEIAR-125/2008))
(本圖是根據 WDII&CWB 環評報告(登記冊編號 AEIAR-125/2008)圖 1.2b 編制)

Figure 2.1

Location of Baseline Air Monitoring Stations

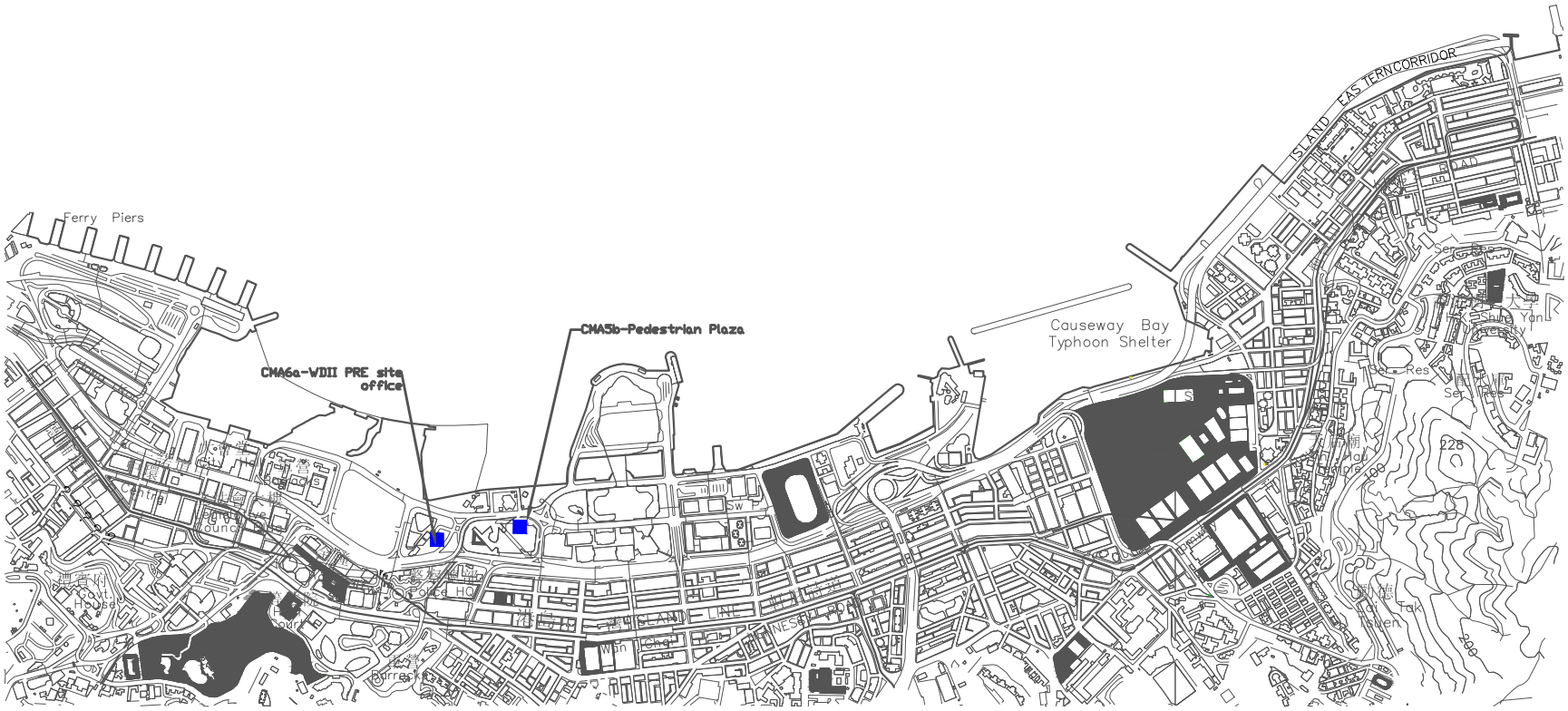


FIGURE 2.1

LOCATIONS OF BASELINE AIR MONITORING STATIONS

Figure 3.1

Location of Baseline Noise Monitoring Station

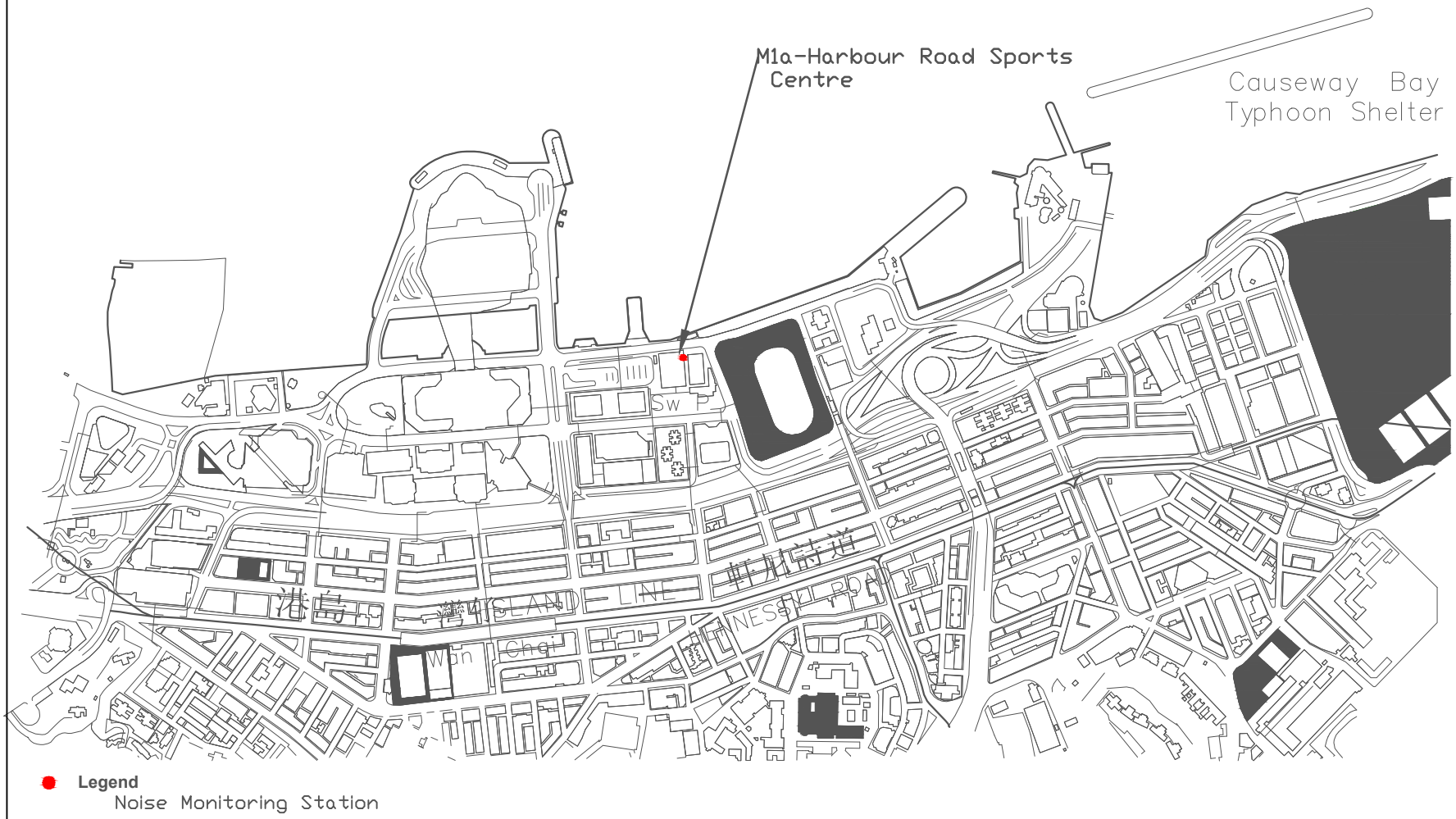


FIGURE 3.1

LOCATION OF BASELINE NOISE MONITORING STATION

Appendix A

Monitoring Schedule for Baseline Monitoring

Wan Chai Development Phase II and Central-Wan Chai Bypass

Sampling, Field Measurement and Testing Works (Stage 2)

Baseline Monitoring Schedule for EP-376/2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring
7-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	8-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	9-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	10-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	11-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	12-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	13-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring
14-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	15-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	16-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	17-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	18-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	19-Dec Air Quality Baseline Montioring (24hr + 1 hr TSP) Noise Baseline Monitoring	20-Dec
21-Dec	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec
28-Dec	29-Dec	30-Dec	31-Dec			

Appendix B

Calibration Certificates of Monitoring Equipment

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5b	**Calbration Date**	:	4-Dec-14
Equipment no.	:	EL222	**Calbration Due Date**	:	4-Mar-15

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	288	Kelvin	**Pressure, P_a**	1021	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	1.99175	**Intercept, bc**	-0.00041
Last Calibration Date	14-Jul-14	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	14-Jul-15	$= m_c \times Q_{std} + b_c$			

Calibration of TSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$)
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	5.8	5.8	11.6	1.7462	60	61.2642
2	4.6	4.6	9.2	1.5552	54	55.1378
3	3.5	3.5	7.0	1.3566	48	49.0114
4	2.3	2.3	4.6	1.0997	41	41.8639
5	1.4	1.4	2.8	0.8580	34	34.7164

By Linear Regression of Y on X

Slope, m	=	29.6907	Intercept, b	=	9.1139
Correlation Coefficient*	=	0.9997			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry Lau	**Checked by**	:	Derek Lo
Date	:	4-Dec-14	**Date**	:	4-Dec-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	21-Oct-14
Equipment no.	:	EL448	**Calbration Due Date**	:	21-Dec-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	303 Kelvin	**Pressure, P_a**	1015 mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	1.99175	**Intercept, bc**	-0.00041
Last Calibration Date	14-Jul-14	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	14-Jul-15	$= m_c \times Q_{std} + b_c$			

Calibration of TSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.3	6.3	12.6	1.7691	56	55.5826
2	5.0	5.0	10.0	1.5761	50	49.6273
3	3.9	3.9	7.8	1.3920	44	43.6720
4	2.5	2.5	5.0	1.1145	36	35.7317
5	1.5	1.5	3.0	0.8633	27	26.7988

By Linear Regression of Y on X

Slope, m = 31.4483 Intercept, b = 0.0476

Correlation Coefficient* = 0.9994

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

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Henry Lau	**Checked by**	:	Derek Lo
Date	:	21-Oct-14	**Date**	:	21-Oct-14

SENSIDYNE®
Industrial Health & Safety Instrumentation

Sensidyne 80570 Nephelometer Calibration Certificate

Recommended Calibration interval is 24 months from first day of use.

Serial No. *R18439*

Firmware: *80570-8100-V1.0.4*

The test and calibration results on this report certify that this instrument complies with the product specifications at the time of this report. Calibration was performed using test instruments and standards that are traceable to NIST. Laser safety and anti-static procedures are followed.

All work has been successfully completed (Sign off)

Signature *Darleen Best* **Date** *8/12/2014*

	Pass/Fail	
Balance Sheath / Sample Flow rate	pass	± 5%
Set Sample Flow rate to 1 lpm	pass	± 5%
Set Zero	pass	± 2 µg/m^3, k = 1
Set Gain	pass	± 5%
Set Serial Number and Model name	X	
Calibration concentration (LD3, µg)	*470*	

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1000 112th Circle North
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Lam Geotechincs Limited

Calibration Data for Portable Dust Meter

Type	:	Aerosol Monitor	**Calbration Date**	:	4-Dec-14
Equipment no.	:	R18439	**Calbration Due Date**	:	4-Dec-15
Location	:	CMA5b			

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition				
Temperature, ˚C	24 ˚C	**Pressure, hP_a**	1017	mmHg

Standard Equipment Information			
Type	**High Volume Air Sampler**	Manufacturer	Tisch
Last Calibration Date	21-Oct-14	Model No.	TE-5170
Next Calibration Date	21-Dec-14	Equipment no.	EL222

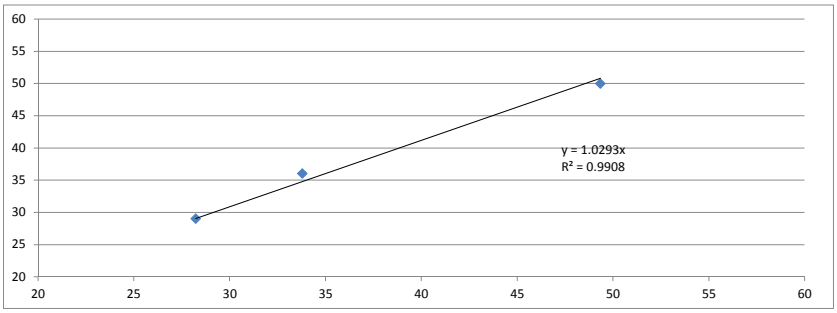
Calibration of Result			
Hour	Time	Concentration in ug/m^3 (Standard equipment)[1] (Y - Axis)	Concentration in ug/m^3 (Calibrated equipment) (X - Axis)
1	10:40 - 11:40	36	34
2	11:50 - 13:50	29	28
4	14:00 - 18:00	50	49

Notes :
1. Monitoring data was measured by TISCH TE-5170 High Volume Air Sampler.
2. Monitoring data was measured by Aerosol Monitor.
3. Calibration result relates to calibration item(s) as received.

By Linear Regression of Y on X

Slope, m (k-factor) = 1.0293 Correlation Coefficient* = 0.9908

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



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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry Lau	**Checked by**	:	Derek Lo
Date	:	4-Dec-14	**Date**	:	4-Dec-14

Lam Geotechincs Limited

Calibration Data for Portable Dust Meter

Type	:	Aerosol Monitor	**Calbration Date**	:	26-Nov-14
Equipment no.	:	R18439	**Calbration Due Date**	:	26-Nov-15
Location	:	CMA6a			

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, ˚C	24	Kelvin	**Pressure, hP_a**	1017	mmHg

Standard Equipment Information			
Type	**High Volume Air Sampler**	Manufacturer	Tisch
Last Calibration Date	21-Oct-14	Model No.	TE-5170
Next Calibration Date	21-Dec-14	Equipment no.	EL448

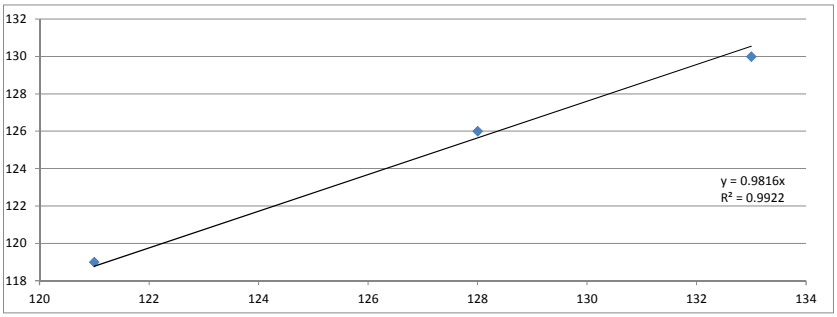
Calibration of Result			
Hour	Time	Concentration in ug/m^3 (Standard equipment)[1] (Y - Axis)	Concentration in ug/m^3 (Calibrated equipment) (X - Axis)
1	17:19 - 18:19	130	133
2	15:05 - 17:05	119	121
4	10:56 - 14:56	126	128

Notes :
1. Monitoring data was measured by TISCH TE-5170 High Volume Air Sampler.
2. Monitoring data was measured by Aerosol Monitor.
3. Calibration result relates to calibration item(s) as received.

By Linear Regression of Y on X

Slope, m (k-factor) = 0.9816 Correlation Coefficient* = 0.9922

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



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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry Lau	**Checked by**	:	Derek Lo
Date	:	26-Nov-14	**Date**	:	26-Nov-14

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
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CERTIFICATE OF CALIBRATION

Certificate No.: 14CA1029 05 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	Larson Davis	,	PCB
Type/Model No.:	LxT1	,	377B02
Serial/Equipment No.:	0003737	,	147209
Adaptors used:	-	,	-

Item submitted by

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

Date of test: 01-Nov-2014

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	20-Jun-2015	CIGISMEC
Signal generator	DS 360	33873	09-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	60 ± 10 %
Air pressure:	1000 ± 10 hPa

Test specifications

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

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

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

Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 03-Nov-2014 **Company Chop:**

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

綜合試驗有限公司
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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 14CA1029 05 **Page** 2 **of** 2

1, Electrical Tests

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

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100μs rectangular pulse	N/A	N/A	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor $1/10^3$ at 4kHz	Pass	0.3	
	1 ms burst duty factor $1/10^4$ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

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

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

3, Response to associated sound calibrator

N/A

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

\- End -

Calibrated by: Fung Chi Yip **Date:** 01-Nov-2014

Checked by: Lam Tze Wai **Date:** 03-Nov-2014

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

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HOKLAS 028

CERTIFICATE OF CALIBRATION

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

Item tested

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

Item submitted by

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

Date of test: 30-May-2014

Reference equipment used in the calibration

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

Ambient conditions

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

Test specifications

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

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

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

Test results

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

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

SOILS & MATERIALS ENGINEERING COMPANY LTD. 綜合試驗有限公司

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

綜合試驗有限公司
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CERTIFICATE OF CALIBRATION

(Continuation Page)

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

1, Measured Sound Pressure Level

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

(Output level in dB re 20 μPa)

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

2, Sound Pressure Level Stability - Short Term Fluctuations

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

At 1000 Hz **STF = 0.001 dB**

Estimated expanded uncertainty 0.005 dB

3, Actual Output Frequency

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

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

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

4, Total Noise and Distortion

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

At 1000 Hz **TND = 0.9 %**

Estimated expanded uncertainty 0.7 %

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

- End -

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

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

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

Appendix C

Baseline Air Quality Monitoring Data

1hr TSP Monitoring Results

CMA5b - Pedestrian Plaza			
Date	**Start Time**	**Time**	**Mass Conc. (ug/m^3)**
6/12/2014	8:11	1st hour	137.8
		2nd hour	138.7
		3rd hour	139.1
7/12/2014	7:28	1st hour	82.0
		2nd hour	85.4
		3rd hour	96.9
8/12/2014	9:24	1st hour	176.5
		2nd hour	166.0
		3rd hour	125.9
9/12/2014	14:27	1st hour	151.8
		2nd hour	149.9
		3rd hour	145.5
10/12/2014	9:50	1st hour	239.8
		2nd hour	219.2
		3rd hour	194.3
11/12/2014	9:52	1st hour	207.6
		2nd hour	193.6
		3rd hour	183.4
12/12/2014	14:35	1st hour	140.4
		2nd hour	150.1
		3rd hour	152.2
13/12/2014	7:50	1st hour	116.8
		2nd hour	113.2
		3rd hour	114.0
14/12/2014	9:00	1st hour	170.1
		2nd hour	168.0
		3rd hour	159.3
15/12/2014	9:20	1st hour	124.9
		2nd hour	148.5
		3rd hour	142.0
16/12/2014	9:30	1st hour	125.6
		2nd hour	110.3
		3rd hour	86.7
17/12/2014	10:00	1st hour	90.1
		2nd hour	80.5
		3rd hour	83.1
18/12/2014	9:20	1st hour	114.7
		2nd hour	112.5
		3rd hour	93.2
19/12/2014	13:15	1st hour	114.6
		2nd hour	127.3
		3rd hour	126.9
		Average (ug/m³)	138.1
		Max (ug/m³)	239.8
		Min (ug/m³)	80.5

CMA6a - WDII PRE Site Office			
Date	**Start Time**	**Time**	**Mass Conc. (ug/m^3)**
6/12/2014	11:23	1st hour	100.5
		2nd hour	99.7
		3rd hour	97.0
7/12/2014	10:47	1st hour	81.7
		2nd hour	86.0
		3rd hour	89.5
8/12/2014	13:06	1st hour	98.1
		2nd hour	99.2
		3rd hour	110.0
9/12/2014	9:20	1st hour	160.6
		2nd hour	173.4
		3rd hour	161.0
10/12/2014	13:00	1st hour	151.0
		2nd hour	134.8
		3rd hour	180.2
11/12/2014	13:25	1st hour	241.7
		2nd hour	225.7
		3rd hour	218.4
12/12/2014	10:33	1st hour	145.0
		2nd hour	142.8
		3rd hour	147.2
13/12/2014	11:15	1st hour	122.7
		2nd hour	123.7
		3rd hour	129.0
14/12/2014	12:45	1st hour	157.3
		2nd hour	167.6
		3rd hour	160.9
15/12/2014	13:00	1st hour	140.1
		2nd hour	102.4
		3rd hour	86.5
16/12/2014	12:40	1st hour	106.1
		2nd hour	114.8
		3rd hour	140.6
17/12/2014	13:15	1st hour	76.8
		2nd hour	81.5
		3rd hour	77.0
18/12/2014	13:00	1st hour	88.6
		2nd hour	89.9
		3rd hour	98.5
19/12/2014	9:45	1st hour	121.1
		2nd hour	118.1
		3rd hour	114.3
		Average (ug/m³)	127.6
		Max (ug/m³)	241.7
		Min (ug/m³)	76.8

24hr TSP Monitoring Results at CMA5b - Pedestrian Plaza

Date	Sampling Time	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, ug/m^3
		Initial	Final	Initial	Final		Initial, Qsi	Final, Qsf	Average		
6-Dec-14	7:00	2.7366	2.9157	3692.48	3716.48	24.00	0.94	0.94	0.94	1350	132.6
7-Dec-14	7:27	2.7297	2.8677	3716.48	3740.48	24.00	1.00	1.00	1.00	1442	95.7
8-Dec-14	8:30	2.7366	2.9243	3740.48	3764.48	24.00	1.07	1.07	1.07	1535	122.3
9-Dec-14	14:20	2.7954	2.9931	3767.48	3791.48	24.00	1.00	1.00	1.00	1440	137.3
10-Dec-14	14:42	2.7593	3.0398	3791.48	3815.48	24.00	1.00	1.00	1.00	1438	195.1
11-Dec-14	14:45	2.7204	2.9927	3815.48	3839.48	24.00	1.00	1.01	1.00	1444	188.6
12-Dec-14	14:50	2.7425	3.0049	3839.48	3863.48	24.00	1.01	1.01	1.01	1453	180.6
13-Dec-14	15:00	2.7154	2.7490	3863.48	3887.48	24.00	1.01	1.01	1.01	1451	23.2
14-Dec-14	15:03	2.7217	2.8956	3887.51	3911.51	24.00	0.94	0.94	0.94	1352	128.7
15-Dec-14	18:24	2.7339	2.8412	3914.52	3938.52	24.00	0.87	0.88	0.87	1258	85.3
16-Dec-14	18:28	2.7218	2.8178	3938.52	3962.52	24.00	0.88	0.88	0.88	1267	75.8
17-Dec-14	18:37	2.7355	2.8202	3982.52	4006.52	24.00	1.02	1.02	1.02	1463	57.9
18-Dec-14	18:40	2.7262	2.9196	4006.52	4030.52	24.00	1.12	1.11	1.11	1605	120.5
19-Dec-14	19:00	2.7215	2.9455	4030.52	4054.52	24.00	0.88	0.87	0.88	1265	177.1
										Average (ug/m^3)	122.9
										Max (ug/m^3)	195.1
										Min (ug/m^3)	23.2

24hr TSP Monitoring Results at CMA6a - WDII PRE Site Office

Date	Sampling Time	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, ug/m^3
		Initial	Final	Initial	Final		Initial, Qsi	Final, Qsf	Average		
6-Dec-14	7:00	2.7518	2.9070	18819.70	18843.70	24.00	1.24	1.24	1.24	1779	87.2
7-Dec-14	7:15	2.7339	2.9168	18843.70	18867.70	24.00	1.24	1.23	1.23	1777	102.9
8-Dec-14	8:00	2.7179	2.9406	18867.70	18891.70	24.00	1.23	1.23	1.23	1775	125.4
9-Dec-14	14:20	2.7447	2.9705	18894.70	18918.70	24.00	1.23	1.23	1.23	1775	127.2
10-Dec-14	14:32	2.7542	3.0796	18918.70	18942.70	24.00	1.23	1.23	1.23	1773	183.6
11-Dec-14	14:35	2.7267	3.0485	18942.70	18966.70	24.00	1.23	1.24	1.24	1778	180.9
12-Dec-14	14:40	2.7313	2.9552	18966.70	18990.70	24.00	1.24	1.24	1.24	1787	125.3
13-Dec-14	14:43	2.7240	2.9203	18990.70	19014.70	24.00	1.18	1.18	1.18	1696	115.7
14-Dec-14	14:54	2.7760	2.9403	19014.71	19038.71	24.00	1.18	1.17	1.17	1691	97.2
15-Dec-14	18:13	2.7161	2.9623	19041.72	19065.72	24.00	1.17	1.18	1.17	1692	145.5
16-Dec-14	18:17	2.7129	2.9349	19065.72	19089.72	24.00	1.18	1.19	1.18	1701	130.5
17-Dec-14	18:25	2.7418	2.8842	19089.72	19113.72	24.00	1.19	1.18	1.19	1707	83.4
18-Dec-14	18:45	2.7359	2.8889	19113.71	19137.71	24.00	1.17	1.17	1.17	1684	90.9
19-Dec-14	18:55	2.7181	2.8189	19137.71	19161.71	24.00	1.10	1.09	1.10	1578	63.9
										Average (ug/m^3)	118.6
										Max (ug/m^3)	183.6
										Min (ug/m^3)	63.9

Appendix D

Baseline Noise Monitoring Data

Noise Monitoring Results

Location : M1a - Harbour Road Sports Centre
Day Time 07:00hr - 19:00hr on Normal weekdays

Date	Measured Noise Level, dB(A)		
	Leq (30min)	L10	L90
6/12/14	73.1	75.6	69.2
7/12/14	Public Holiday		
8/12/14	72.6	75.3	68.1
9/12/14	72.7	75.3	68.4
10/12/14	73.0	75.6	68.8
11/12/14	72.6	75.2	68.3
12/12/14	72.3	74.8	68.3
13/12/14	73.1	75.4	69.2
14/12/14	Public Holiday		
15/12/14	72.6	75.0	68.5
16/12/14	72.6	75.1	68.4
17/12/14	72.1	74.6	67.9
18/12/14	72.5	74.8	68.5
19/12/14	72.7	75.0	69.1

	Leq (30-min), dB(A)
Average	72.7
Max	73.1
Min	72.1

Location : M1a - Harbour Road Sports Centre
Normal weekdays during evening 19:00hr to 23:00hr

Date	Measured Noise Level, dB(A)		
	Leq (5min)	L10	L90
6/12/14	73.0	75.8	67.4
7/12/14	Public Holiday		
8/12/14	71.5	74.2	67.0
9/12/14	71.5	74.1	66.8
10/12/14	72.1	74.3	67.4
11/12/14	71.9	74.3	67.2
12/12/14	71.3	73.7	67.2
13/12/14	72.9	75.8	67.1
14/12/14	Public Holiday		
15/12/14	71.4	74.0	66.8
16/12/14	71.5	74.0	67.2
17/12/14	71.8	74.3	67.7
18/12/14	72.3	74.8	67.7
19/12/14	72.5	75.1	67.8

	Leq (5-min), dB(A)
Average	72.0
Max	73.0
Min	71.3

Location : M1a - Harbour Road Sports Centre
General holidays (including Sundays) during the day-time and evening 07:00hr to 19:00hr

Date	Measured Noise Level, dB(A)		
	Leq (5min)	L10	L90
7/12/14	71.2	74.1	66.2
14/12/14	70.5	73.1	65.8

	Leq (5-min), dB(A)
Average	70.8
Max	71.2
Min	70.5

Location : M1a - Harbour Road Sports Centre
General holidays (including Sundays) during the evening 19:00hr to 23:00hr

Date	Measured Noise Level, dB(A)		
	Leq (5min)	L10	L90
7/12/14	71.0	73.6	64.6
14/12/14	70.4	73.4	64.6

	Leq (5-min), dB(A)
Average	70.7
Max	71.0
Min	70.4

Noise Monitoring Data M1a

Normal weekdays daytime 07:00hr to 19:00hr

	Leq(30mins) dB(A)	L10 dB(A)	L90 dB(A)
6/12/2014 7:00	70.3	73.5	64.1
6/12/2014 7:30	71.4	74.6	66.6
6/12/2014 8:00	73.4	76.1	68.8
6/12/2014 8:30	74.1	76.8	70.0
6/12/2014 9:00	74.3	76.8	70.5
6/12/2014 9:30	75.1	77.3	72.1
6/12/2014 10:00	73.6	76.2	69.9
6/12/2014 10:30	73.2	76.0	69.4
6/12/2014 11:00	73.8	76.0	69.7
6/12/2014 11:30	72.2	75.2	68.0
6/12/2014 12:00	72.3	74.9	67.9
6/12/2014 12:30	72.7	75.0	68.7
6/12/2014 13:00	72.5	75.1	68.5
6/12/2014 13:30	73.1	75.5	69.7
6/12/2014 14:00	73.2	76.0	69.5
6/12/2014 14:30	73.4	75.6	70.1
6/12/2014 15:00	73.3	75.5	70.3
6/12/2014 15:30	73.5	75.7	70.2
6/12/2014 16:00	73.7	75.7	70.8
6/12/2014 16:30	74.0	76.4	70.8
6/12/2014 17:00	73.1	75.6	69.5
6/12/2014 17:30	72.3	74.5	69.2
6/12/2014 18:00	72.7	75.0	69.4
6/12/2014 18:30	72.6	75.3	68.3
8/12/2014 7:00	71.8	74.8	66.2
8/12/2014 7:30	72.3	74.9	67.9
8/12/2014 8:00	73.1	76.1	68.6
8/12/2014 8:30	73.6	76.2	69.5
8/12/2014 9:00	73.5	76.0	68.9
8/12/2014 9:30	73.4	76.4	67.9
8/12/2014 10:00	72.3	75.5	67.4
8/12/2014 10:30	72.6	75.4	68.2
8/12/2014 11:00	73.0	75.8	68.5
8/12/2014 11:30	72.1	75.3	66.7
8/12/2014 12:00	71.7	74.9	66.3
8/12/2014 12:30	72.6	75.2	66.1
8/12/2014 13:00	73.0	75.5	69.1
8/12/2014 13:30	72.8	75.2	68.8
8/12/2014 14:00	72.7	75.5	67.9
8/12/2014 14:30	72.0	74.7	67.7
8/12/2014 15:00	72.4	75.1	67.5
8/12/2014 15:30	71.7	74.6	66.7
8/12/2014 16:00	72.3	74.2	68.5
8/12/2014 16:30	71.9	73.9	69.0
8/12/2014 17:00	72.7	75.3	68.9
8/12/2014 17:30	73.0	75.2	69.8
8/12/2014 18:00	73.0	75.4	69.3
8/12/2014 18:30	72.7	75.1	69.0
9/12/2014 7:00	71.6	74.5	66.1
9/12/2014 7:30	72.8	75.3	68.2
9/12/2014 8:00	73.0	75.7	68.1
9/12/2014 8:30	73.2	75.8	69.3
9/12/2014 9:00	73.4	76.0	69.3
9/12/2014 9:30	73.5	76.4	68.8
9/12/2014 10:00	72.8	74.9	69.8
9/12/2014 10:30	72.8	75.0	69.4
9/12/2014 11:00	72.5	75.3	68.3
9/12/2014 11:30	73.1	76.2	67.2
9/12/2014 12:00	71.2	74.2	66.6
9/12/2014 12:30	72.7	75.7	67.1
9/12/2014 13:00	73.0	75.8	68.9
9/12/2014 13:30	73.2	75.5	69.2
9/12/2014 14:00	72.2	75.1	68.0
9/12/2014 14:30	72.6	75.5	67.9
9/12/2014 15:00	73.1	75.3	69.2
9/12/2014 15:30	72.8	75.4	68.6
9/12/2014 16:00	72.0	74.4	68.1
9/12/2014 16:30	72.7	75.1	69.0
9/12/2014 17:00	72.7	74.8	69.3
9/12/2014 17:30	73.0	75.4	69.4
9/12/2014 18:00	72.1	74.4	68.4
9/12/2014 18:30	72.0	74.3	67.7
10/12/2014 7:00	72.4	75.5	67.5
10/12/2014 7:30	73.2	75.7	69.4
10/12/2014 8:00	73.2	75.7	69.1
10/12/2014 8:30	73.6	76.2	69.4
10/12/2014 9:00	74.2	76.6	70.1
10/12/2014 9:30	73.1	76.0	69.0
10/12/2014 10:00	73.6	76.2	69.5
10/12/2014 10:30	72.6	75.2	68.7
10/12/2014 11:00	73.2	75.6	69.0
10/12/2014 11:30	73.2	76.0	67.9
10/12/2014 12:00	72.5	75.5	66.9
10/12/2014 12:30	71.5	74.2	67.1
10/12/2014 13:00	72.6	75.7	67.9
10/12/2014 13:30	73.7	76.4	69.2
10/12/2014 14:00	72.7	75.4	68.8
10/12/2014 14:30	73.1	75.7	68.5
10/12/2014 15:00	73.1	75.7	68.7
10/12/2014 15:30	72.4	75.1	67.9
10/12/2014 16:00	72.6	75.5	67.8
10/12/2014 16:30	72.6	74.9	69.0
10/12/2014 17:00	73.2	74.7	69.3
10/12/2014 17:30	73.2	75.3	70.5
10/12/2014 18:00	72.9	75.2	70.2
10/12/2014 18:30	73.3	75.8	69.8
11/12/2014 7:00	71.6	75.0	65.6
11/12/2014 7:30	71.3	73.8	66.5
11/12/2014 8:00	71.9	74.6	67.3
11/12/2014 8:30	72.7	75.0	69.1
11/12/2014 9:00	73.1	75.6	69.2
11/12/2014 9:30	73.1	76.0	68.6
11/12/2014 10:00	73.4	76.3	68.9
11/12/2014 10:30	73.1	75.9	68.4
11/12/2014 11:00	72.8	75.7	68.1
11/12/2014 11:30	72.6	75.7	66.9
11/12/2014 12:00	71.9	75.1	65.5
11/12/2014 12:30	71.8	75.1	66.6
11/12/2014 13:00	73.8	76.3	67.9
11/12/2014 13:30	72.7	75.2	69.0
11/12/2014 14:00	72.7	75.3	68.8
11/12/2014 14:30	73.1	75.5	69.4
11/12/2014 15:00	72.6	74.8	69.3
11/12/2014 15:30	72.9	75.1	69.3
11/12/2014 16:00	73.3	74.9	70.1
11/12/2014 16:30	72.9	74.7	69.7
11/12/2014 17:00	73.1	75.4	69.9
11/12/2014 17:30	72.2	74.5	68.9
11/12/2014 18:00	72.5	75.0	68.1
11/12/2014 18:30	71.5	73.6	68.3
12/12/2014 7:00	69.7	72.6	65.8

12/12/2014 7:30	71.5	74.1	67.6
12/12/2014 8:00	72.6	75.1	68.8
12/12/2014 8:30	73.9	76.3	70.6
12/12/2014 9:00	73.4	75.8	69.5
12/12/2014 9:30	72.2	74.7	68.1
12/12/2014 10:00	72.1	74.8	67.8
12/12/2014 10:30	72.6	75.3	69.0
12/12/2014 11:00	72.2	74.8	68.6
12/12/2014 11:30	71.8	74.5	67.0
12/12/2014 12:00	71.0	73.9	66.0
12/12/2014 12:30	71.6	74.4	65.6
12/12/2014 13:00	72.1	74.9	67.5
12/12/2014 13:30	72.5	74.7	68.3
12/12/2014 14:00	72.5	75.3	68.3
12/12/2014 14:30	72.1	74.7	68.4
12/12/2014 15:00	70.5	72.5	67.4
12/12/2014 15:30	71.1	73.6	66.9
12/12/2014 16:00	72.0	74.2	68.7
12/12/2014 16:30	73.1	75.4	69.3
12/12/2014 17:00	72.9	74.9	70.3
12/12/2014 17:30	74.6	77.4	70.1
12/12/2014 18:00	73.2	75.5	70.2
12/12/2014 18:30	73.1	75.9	69.2
13/12/2014 7:00	67.4	70.3	62.8
13/12/2014 7:30	70.0	72.8	66.3
13/12/2014 8:00	72.6	75.1	69.0
13/12/2014 8:30	73.5	75.9	69.8
13/12/2014 9:00	73.8	76.1	70.0
13/12/2014 9:30	73.7	75.9	70.5
13/12/2014 10:00	72.6	74.7	69.6
13/12/2014 10:30	73.0	75.6	69.6
13/12/2014 11:00	72.6	75.1	69.0
13/12/2014 11:30	71.4	74.3	67.0
13/12/2014 12:00	71.9	74.7	66.7
13/12/2014 12:30	71.3	74.2	66.1
13/12/2014 13:00	76.6	79.3	69.7
13/12/2014 13:30	77.2	81.6	71.1
13/12/2014 14:00	74.2	76.0	70.7
13/12/2014 14:30	73.3	75.1	70.7
13/12/2014 15:00	72.8	74.8	69.8
13/12/2014 15:30	73.1	75.4	70.2
13/12/2014 16:00	76.6	76.6	71.0
13/12/2014 16:30	73.7	75.5	71.1
13/12/2014 17:00	74.5	76.1	70.9
13/12/2014 17:30	74.2	76.0	70.7
13/12/2014 18:00	72.7	74.7	69.6
13/12/2014 18:30	72.7	74.8	69.1
15/12/2014 7:00	68.8	71.5	64.6
15/12/2014 7:30	70.9	73.3	66.6
15/12/2014 8:00	72.5	75.3	67.9
15/12/2014 8:30	72.9	75.5	69.1
15/12/2014 9:00	74.1	76.6	69.6
15/12/2014 9:30	73.5	76.0	69.1
15/12/2014 10:00	73.5	75.3	68.5
15/12/2014 10:30	72.8	75.4	68.4
15/12/2014 11:00	72.3	74.9	68.4
15/12/2014 11:30	72.4	74.9	67.2
15/12/2014 12:00	71.4	74.6	65.2
15/12/2014 12:30	71.7	74.3	65.8
15/12/2014 13:00	72.6	75.3	68.1
15/12/2014 13:30	72.8	75.3	68.6
15/12/2014 14:00	72.7	75.1	69.3
15/12/2014 14:30	73.4	75.8	69.5
15/12/2014 15:00	72.5	74.9	68.8
15/12/2014 15:30	72.1	74.5	68.5
15/12/2014 16:00	72.0	74.3	68.4
15/12/2014 16:30	73.5	75.0	70.7
15/12/2014 17:00	74.6	76.8	71.4
15/12/2014 17:30	72.8	75.1	69.7
15/12/2014 18:00	73.2	74.9	70.2
15/12/2014 18:30	73.1	75.1	69.9
16/12/2014 7:00	69.3	71.8	64.6
16/12/2014 7:30	71.1	73.8	66.4
16/12/2014 8:00	72.8	75.4	68.7
16/12/2014 8:30	73.5	75.9	69.9
16/12/2014 9:00	73.4	75.6	69.6
16/12/2014 9:30	73.0	75.5	69.1
16/12/2014 10:00	73.2	75.6	68.8
16/12/2014 10:30	72.4	75.0	68.6
16/12/2014 11:00	72.4	75.3	67.7
16/12/2014 11:30	71.6	74.7	66.7
16/12/2014 12:00	72.0	74.8	66.1
16/12/2014 12:30	71.5	74.6	66.0
16/12/2014 13:00	73.0	75.1	68.6
16/12/2014 13:30	72.5	75.0	68.4
16/12/2014 14:00	72.2	74.7	68.0
16/12/2014 14:30	72.6	75.1	68.7
16/12/2014 15:00	73.1	75.4	69.6
16/12/2014 15:30	73.2	75.5	69.5
16/12/2014 16:00	73.0	75.5	69.2
16/12/2014 16:30	72.7	75.1	68.9
16/12/2014 17:00	72.5	74.9	68.8
16/12/2014 17:30	72.7	75.2	69.3
16/12/2014 18:00	72.6	74.7	69.7
16/12/2014 18:30	76.2	78.0	69.6
17/12/2014 7:00	69.4	72.1	65.2
17/12/2014 7:30	71.0	73.9	67.2
17/12/2014 8:00	72.8	75.3	69.1
17/12/2014 8:30	73.5	75.7	70.3
17/12/2014 9:00	72.4	75.1	68.4
17/12/2014 9:30	72.0	74.8	67.0
17/12/2014 10:00	71.9	74.4	67.2
17/12/2014 10:30	72.2	74.9	68.0
17/12/2014 11:00	71.5	74.0	67.3
17/12/2014 11:30	70.7	73.8	65.3
17/12/2014 12:00	70.8	73.8	64.5
17/12/2014 12:30	71.5	74.5	65.0
17/12/2014 13:00	72.4	74.9	68.1
17/12/2014 13:30	72.7	75.0	67.9
17/12/2014 14:00	72.1	74.4	67.6
17/12/2014 14:30	72.2	74.6	68.3
17/12/2014 15:00	72.3	74.5	68.6
17/12/2014 15:30	71.8	74.1	68.1
17/12/2014 16:00	71.9	74.3	68.3
17/12/2014 16:30	72.4	74.6	69.1
17/12/2014 17:00	72.8	75.0	69.6
17/12/2014 17:30	73.6	75.9	70.7
17/12/2014 18:00	73.2	75.2	70.5
17/12/2014 18:30	72.4	74.7	69.3
18/12/2014 7:00	67.8	70.5	63.2
18/12/2014 7:30	70.4	73.2	65.3
18/12/2014 8:00	72.2	74.8	67.9
18/12/2014 8:30	73.1	75.4	69.6
18/12/2014 9:00	73.5	75.7	69.3
18/12/2014 9:30	72.6	75.1	68.4
18/12/2014 10:00	72.4	74.8	68.6

18/12/2014	10:30	73.2	75.5	69.2
18/12/2014	11:00	72.7	75.1	69.3
18/12/2014	11:30	72.1	74.9	67.7
18/12/2014	12:00	70.8	73.6	66.0
18/12/2014	12:30	71.1	74.0	66.2
18/12/2014	13:00	73.0	75.5	69.1
18/12/2014	13:30	73.3	75.7	69.6
18/12/2014	14:00	72.7	75.0	68.8
18/12/2014	14:30	72.8	75.0	69.0
18/12/2014	15:00	72.7	75.2	68.7
18/12/2014	15:30	72.5	74.9	68.8
18/12/2014	16:00	72.5	74.8	69.0
18/12/2014	16:30	75.3	75.9	69.5
18/12/2014	17:00	72.4	74.5	69.6
18/12/2014	17:30	73.1	75.4	70.2
18/12/2014	18:00	73.2	75.0	70.4
18/12/2014	18:30	73.3	75.8	69.8
19/12/2014	7:00	69.4	72.2	64.9
19/12/2014	7:30	71.2	73.8	67.1
19/12/2014	8:00	72.5	75.0	68.6
19/12/2014	8:30	73.5	75.6	70.1
19/12/2014	9:00	73.5	75.8	70.0
19/12/2014	9:30	72.6	75.1	68.9
19/12/2014	10:00	72.9	75.7	69.2
19/12/2014	10:30	73.3	75.9	69.5
19/12/2014	11:00	73.1	75.7	69.3
19/12/2014	11:30	71.5	74.2	66.4
19/12/2014	12:00	71.9	74.5	66.7
19/12/2014	12:30	74.5	74.8	66.7
19/12/2014	13:00	72.6	75.3	67.8
19/12/2014	13:30	73.2	75.6	69.2
19/12/2014	14:00	72.8	75.0	69.2
19/12/2014	14:30	72.3	74.8	69.0
19/12/2014	15:00	72.4	74.4	69.5
19/12/2014	15:30	71.8	74.0	68.5
19/12/2014	16:00	72.4	74.5	69.5
19/12/2014	16:30	73.2	75.6	70.1
19/12/2014	17:00	73.7	75.8	71.0
19/12/2014	17:30	73.5	75.5	70.7
19/12/2014	18:00	73.6	75.4	70.4
19/12/2014	18:30	73.6	75.6	70.3

Noise Monitoring Data M1a

Normal weekdays during evening

19:00hr to 23:00hr

	Leq(5mins)	L10	L90
	dB(A)	dB(A)	dB(A)
6/12/2014 19:00	71.6	74.5	66.0
6/12/2014 19:05	71.7	74.5	67.4
6/12/2014 19:10	70.8	73.6	65.9
6/12/2014 19:15	70.2	73.3	65.8
6/12/2014 19:20	72.3	75.5	65.3
6/12/2014 19:25	71.3	73.7	66.2
6/12/2014 19:30	70.1	73.1	65.5
6/12/2014 19:35	70.6	73.0	67.0
6/12/2014 19:40	72.5	75.5	68.4
6/12/2014 19:45	76.5	76.6	68.7
6/12/2014 19:50	74.3	77.5	68.3
6/12/2014 19:55	73.5	75.6	70.2
6/12/2014 20:00	72.3	74.4	68.3
6/12/2014 20:05	72.6	75.1	69.0
6/12/2014 20:10	72.7	75.0	68.9
6/12/2014 20:15	73.8	76.9	69.0
6/12/2014 20:20	73.4	75.7	69.2
6/12/2014 20:25	75.0	77.8	69.9
6/12/2014 20:30	75.3	78.5	69.1
6/12/2014 20:35	76.8	79.3	69.1
6/12/2014 20:40	75.9	78.7	70.4
6/12/2014 20:45	76.2	78.7	70.5
6/12/2014 20:50	74.5	77.4	69.2
6/12/2014 20:55	75.1	78.3	68.1
6/12/2014 21:00	75.3	78.1	68.8
6/12/2014 21:05	76.9	80.2	70.4
6/12/2014 21:10	75.2	78.4	69.8
6/12/2014 21:15	75.1	77.9	69.1
6/12/2014 21:20	73.8	76.8	68.6
6/12/2014 21:25	75.3	77.3	68.4
6/12/2014 21:30	73.2	76.1	66.8
6/12/2014 21:35	72.0	74.9	66.0
6/12/2014 21:40	69.6	72.3	64.3
6/12/2014 21:45	71.3	74.0	63.7
6/12/2014 21:50	70.5	74.3	63.8
6/12/2014 21:55	70.3	73.6	64.3
6/12/2014 22:00	69.6	72.9	63.5
6/12/2014 22:05	70.5	72.8	66.2
6/12/2014 22:10	69.6	72.6	64.2
6/12/2014 22:15	69.2	72.1	64.1
6/12/2014 22:20	69.6	72.5	63.1
6/12/2014 22:25	69.7	72.4	63.6
6/12/2014 22:30	69.8	72.7	64.3
6/12/2014 22:35	70.0	73.4	64.2
6/12/2014 22:40	68.0	69.6	62.7
6/12/2014 22:45	69.7	72.3	62.9
6/12/2014 22:50	69.7	72.2	62.9
6/12/2014 22:55	69.6	72.3	64.7
8/12/2014 19:00	71.8	74.3	68.1
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8/12/2014 19:15	73.2	76.2	69.3
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8/12/2014 19:45	73.0	75.7	69.7
8/12/2014 19:50	73.0	74.8	69.3
8/12/2014 19:55	71.8	73.7	68.3
8/12/2014 20:00	73.0	75.7	69.3
8/12/2014 20:05	73.6	76.0	69.6
8/12/2014 20:10	74.3	77.3	70.4
8/12/2014 20:15	73.0	75.5	69.1
8/12/2014 20:20	72.8	75.2	68.6
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8/12/2014 20:45	72.3	75.3	66.8
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8/12/2014 22:05	70.4	73.5	63.8
8/12/2014 22:10	68.9	72.1	62.6
8/12/2014 22:15	69.5	73.5	61.5
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8/12/2014 22:50	68.7	71.4	64.1
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9/12/2014 19:05	71.4	74.6	66.5
9/12/2014 19:10	71.2	73.7	66.9
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9/12/2014 20:00	72.8	74.9	69.4
9/12/2014 20:05	73.1	75.6	68.3
9/12/2014 20:10	72.6	75.2	68.1
9/12/2014 20:15	74.2	77.2	69.2
9/12/2014 20:20	72.3	75.2	68.2
9/12/2014 20:25	72.9	75.8	68.1
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9/12/2014 20:50	72.2	74.6	67.8
9/12/2014 20:55	71.6	74.9	66.6
9/12/2014 21:00	72.6	75.3	66.6

9/12/2014 21:05	72.9	75.7	67.5	10/12/2014 20:35	72.2	73.9	69.4	11/12/2014 20:05	73.2	75.8	69.6
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9/12/2014 21:15	71.1	74.4	65.3	10/12/2014 20:45	71.5	73.9	68.2	11/12/2014 20:15	73.8	76.2	68.8
9/12/2014 21:20	69.8	72.4	64.1	10/12/2014 20:50	72.7	74.4	69.5	11/12/2014 20:20	73.3	76.2	68.4
9/12/2014 21:25	69.7	72.8	63.1	10/12/2014 20:55	72.0	74.6	68.5	11/12/2014 20:25	72.4	74.7	69.0
9/12/2014 21:30	69.8	72.6	63.1	10/12/2014 21:00	72.0	73.9	68.2	11/12/2014 20:30	72.7	75.7	68.3
9/12/2014 21:35	70.9	74.0	64.2	10/12/2014 21:05	72.9	75.1	69.0	11/12/2014 20:35	73.1	76.1	67.3
9/12/2014 21:40	67.7	70.7	61.0	10/12/2014 21:10	72.2	74.6	68.0	11/12/2014 20:40	73.2	76.2	67.5
9/12/2014 21:45	68.9	71.7	64.2	10/12/2014 21:15	71.8	74.5	67.0	11/12/2014 20:45	71.8	74.1	67.0
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9/12/2014 21:55	70.5	73.1	64.9	10/12/2014 21:25	72.3	74.9	68.3	11/12/2014 20:55	72.2	75.3	65.9
9/12/2014 22:00	69.9	73.2	63.8	10/12/2014 21:30	71.8	75.7	66.3	11/12/2014 21:00	72.3	75.5	66.0
9/12/2014 22:05	71.4	74.4	64.0	10/12/2014 21:35	71.7	74.2	66.0	11/12/2014 21:05	70.4	73.2	65.9
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9/12/2014 22:35	70.0	73.1	64.5	10/12/2014 22:05	70.7	74.1	64.6	11/12/2014 21:35	69.5	72.1	63.8
9/12/2014 22:40	68.3	70.3	64.7	10/12/2014 22:10	69.9	72.9	63.9	11/12/2014 21:40	70.9	74.2	64.5
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9/12/2014 22:50	70.6	72.5	65.4	10/12/2014 22:20	71.9	73.8	67.2	11/12/2014 21:50	68.8	70.8	63.4
9/12/2014 22:55	68.9	71.7	63.1	10/12/2014 22:25	71.1	74.4	65.7	11/12/2014 21:55	69.2	72.6	63.4
10/12/2014 19:00	72.0	74.4	68.9	10/12/2014 22:30	70.3	72.7	64.6	11/12/2014 22:00	69.6	72.9	63.9
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10/12/2014 19:10	71.7	74.0	68.0	10/12/2014 22:40	69.4	72.1	64.7	11/12/2014 22:10	69.7	72.4	66.2
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10/12/2014 19:25	72.2	74.6	68.0	10/12/2014 22:55	71.7	74.5	62.6	11/12/2014 22:25	69.9	71.9	65.8
10/12/2014 19:30	72.1	75.0	68.1	11/12/2014 19:00	72.3	74.8	68.2	11/12/2014 22:30	70.2	73.4	65.9
10/12/2014 19:35	72.6	75.1	68.8	11/12/2014 19:05	75.9	75.6	64.9	11/12/2014 22:35	70.6	72.9	64.8
10/12/2014 19:40	72.4	74.4	68.4	11/12/2014 19:10	71.3	74.0	67.2	11/12/2014 22:40	70.1	72.1	65.8
10/12/2014 19:45	71.5	73.8	67.7	11/12/2014 19:15	72.5	74.2	67.9	11/12/2014 22:45	70.3	72.3	66.5
10/12/2014 19:50	74.9	74.9	67.2	11/12/2014 19:20	71.6	73.4	68.5	11/12/2014 22:50	69.8	72.5	65.6
10/12/2014 19:55	78.8	78.9	69.2	11/12/2014 19:25	75.8	77.0	70.0	11/12/2014 22:55	70.2	72.7	64.7
10/12/2014 20:00	72.2	74.8	67.9	11/12/2014 19:30	72.0	74.3	69.2	12/12/2014 19:00	72.8	75.3	69.2
10/12/2014 20:05	71.9	74.3	68.2	11/12/2014 19:35	72.9	75.0	70.1	12/12/2014 19:05	72.4	75.0	68.0
10/12/2014 20:10	72.0	74.7	67.3	11/12/2014 19:40	73.4	76.0	69.3	12/12/2014 19:10	71.7	74.3	67.1
10/12/2014 20:15	71.0	73.2	68.0	11/12/2014 19:45	72.8	75.1	70.0	12/12/2014 19:15	71.4	74.1	67.4
10/12/2014 20:20	71.8	74.1	67.6	11/12/2014 19:50	72.3	74.1	70.0	12/12/2014 19:20	71.6	74.0	67.8
10/12/2014 20:25	71.9	74.5	67.5	11/12/2014 19:55	73.3	75.3	70.3	12/12/2014 19:25	70.9	72.8	67.4
10/12/2014 20:30	72.6	75.2	69.4	11/12/2014 20:00	73.6	76.0	70.7	12/12/2014 19:30	72.4	75.4	68.0

12/12/2014 19:35	71.9	75.2	67.4	13/12/2014 19:05	71.0	73.3	66.0	13/12/2014 22:35	69.0	71.8	64.4
12/12/2014 19:40	72.9	75.8	69.0	13/12/2014 19:10	71.7	74.8	67.1	13/12/2014 22:40	70.0	73.3	63.9
12/12/2014 19:45	73.6	75.7	68.1	13/12/2014 19:15	72.4	75.3	65.8	13/12/2014 22:45	67.6	70.6	61.3
12/12/2014 19:50	72.1	74.2	69.6	13/12/2014 19:20	70.1	72.6	65.7	13/12/2014 22:50	71.9	73.5	63.2
12/12/2014 19:55	72.2	74.5	69.3	13/12/2014 19:25	72.0	73.2	66.8	13/12/2014 22:55	68.2	70.9	61.6
12/12/2014 20:00	72.8	75.3	69.7	13/12/2014 19:30	71.0	73.7	67.1	15/12/2014 19:00	72.8	75.4	69.5
12/12/2014 20:05	73.1	75.3	70.5	13/12/2014 19:35	71.4	73.8	67.6	15/12/2014 19:05	71.6	73.3	68.2
12/12/2014 20:10	71.8	73.5	69.6	13/12/2014 19:40	72.0	74.7	67.3	15/12/2014 19:10	71.9	74.4	68.7
12/12/2014 20:15	71.5	73.6	68.0	13/12/2014 19:45	72.2	74.8	68.0	15/12/2014 19:15	72.0	74.7	68.0
12/12/2014 20:20	72.0	74.6	67.1	13/12/2014 19:50	73.6	76.0	69.6	15/12/2014 19:20	72.1	74.5	68.3
12/12/2014 20:25	71.9	74.1	68.3	13/12/2014 19:55	71.6	74.5	67.8	15/12/2014 19:25	71.8	75.1	67.9
12/12/2014 20:30	73.0	75.6	68.7	13/12/2014 20:00	72.9	75.7	68.9	15/12/2014 19:30	71.7	74.3	68.1
12/12/2014 20:35	73.0	75.7	68.5	13/12/2014 20:05	72.9	75.8	68.7	15/12/2014 19:35	71.7	74.5	67.5
12/12/2014 20:40	72.2	74.3	66.7	13/12/2014 20:10	73.8	76.5	68.9	15/12/2014 19:40	73.3	76.4	67.6
12/12/2014 20:45	71.0	73.0	68.0	13/12/2014 20:15	76.0	79.4	69.7	15/12/2014 19:45	73.5	76.7	67.5
12/12/2014 20:50	70.5	72.9	66.8	13/12/2014 20:20	74.8	78.4	69.4	15/12/2014 19:50	74.1	76.6	69.8
12/12/2014 20:55	71.9	74.6	67.7	13/12/2014 20:25	78.7	81.5	69.1	15/12/2014 19:55	72.4	75.3	68.0
12/12/2014 21:00	71.9	74.3	68.3	13/12/2014 20:30	75.9	78.8	69.8	15/12/2014 20:00	72.6	75.2	68.8
12/12/2014 21:05	71.3	73.8	67.2	13/12/2014 20:35	75.6	78.4	69.3	15/12/2014 20:05	72.8	75.0	69.2
12/12/2014 21:10	70.9	73.6	66.4	13/12/2014 20:40	75.7	78.4	69.8	15/12/2014 20:10	72.9	75.4	68.7
12/12/2014 21:15	69.8	72.0	66.6	13/12/2014 20:45	74.9	78.2	68.6	15/12/2014 20:15	72.2	74.3	69.0
12/12/2014 21:20	71.1	73.8	66.6	13/12/2014 20:50	75.9	79.3	69.7	15/12/2014 20:20	70.7	73.7	66.7
12/12/2014 21:25	70.4	72.6	67.0	13/12/2014 20:55	74.3	77.1	69.0	15/12/2014 20:25	71.3	74.6	66.6
12/12/2014 21:30	71.4	73.9	66.6	13/12/2014 21:00	75.6	78.6	69.0	15/12/2014 20:30	72.6	75.3	67.8
12/12/2014 21:35	69.4	72.2	64.9	13/12/2014 21:05	74.8	77.8	67.9	15/12/2014 20:35	71.1	73.8	66.2
12/12/2014 21:40	69.7	71.9	65.8	13/12/2014 21:10	75.3	77.4	69.1	15/12/2014 20:40	74.3	77.3	67.2
12/12/2014 21:45	69.4	72.0	64.6	13/12/2014 21:15	74.9	77.8	67.8	15/12/2014 20:45	72.1	75.2	66.8
12/12/2014 21:50	70.8	73.6	64.6	13/12/2014 21:20	73.9	77.0	67.7	15/12/2014 20:50	71.3	74.4	65.7
12/12/2014 21:55	69.0	71.8	64.4	13/12/2014 21:25	73.9	77.0	67.3	15/12/2014 20:55	69.9	72.7	65.1
12/12/2014 22:00	71.4	73.6	67.3	13/12/2014 21:30	70.8	73.7	65.8	15/12/2014 21:00	71.8	74.7	65.7
12/12/2014 22:05	69.5	72.2	65.3	13/12/2014 21:35	70.5	73.2	64.8	15/12/2014 21:05	71.5	74.6	66.1
12/12/2014 22:10	70.8	72.7	67.0	13/12/2014 21:40	70.5	73.0	64.7	15/12/2014 21:10	70.4	73.1	65.3
12/12/2014 22:15	69.0	71.4	65.9	13/12/2014 21:45	69.0	71.7	62.3	15/12/2014 21:15	72.0	74.7	67.1
12/12/2014 22:20	70.4	73.3	65.6	13/12/2014 21:50	69.4	72.9	60.5	15/12/2014 21:20	70.7	73.5	66.1
12/12/2014 22:25	68.2	71.3	63.0	13/12/2014 21:55	70.2	73.3	63.2	15/12/2014 21:25	71.2	74.3	66.0
12/12/2014 22:30	70.0	72.4	65.0	13/12/2014 22:00	70.7	72.5	64.3	15/12/2014 21:30	69.8	72.9	65.4
12/12/2014 22:35	71.2	73.3	64.9	13/12/2014 22:05	69.7	72.6	64.7	15/12/2014 21:35	71.9	73.4	65.7
12/12/2014 22:40	68.3	70.7	64.5	13/12/2014 22:10	69.8	72.8	63.5	15/12/2014 21:40	71.1	73.4	65.9
12/12/2014 22:45	67.4	70.2	63.7	13/12/2014 22:15	69.1	71.9	63.3	15/12/2014 21:45	70.8	73.7	64.1
12/12/2014 22:50	69.2	72.1	63.4	13/12/2014 22:20	68.0	70.6	63.5	15/12/2014 21:50	70.4	73.6	63.9
12/12/2014 22:55	67.6	70.7	62.1	13/12/2014 22:25	68.3	71.0	63.5	15/12/2014 21:55	70.6	73.3	65.2
13/12/2014 19:00	70.9	72.9	66.8	13/12/2014 22:30	69.6	72.2	64.9	15/12/2014 22:00	71.1	74.6	64.6

15/12/2014 22:05	69.4	71.8	64.9	16/12/2014 21:35	69.5	71.7	65.2	17/12/2014 21:05	71.6	74.5	67.5
15/12/2014 22:10	69.0	71.7	63.5	16/12/2014 21:40	70.5	73.1	64.3	17/12/2014 21:10	71.5	74.6	67.6
15/12/2014 22:15	70.5	73.3	64.7	16/12/2014 21:45	69.0	71.8	64.9	17/12/2014 21:15	71.0	74.2	66.2
15/12/2014 22:20	71.8	72.8	65.1	16/12/2014 21:50	70.3	72.6	65.4	17/12/2014 21:20	71.4	74.2	65.6
15/12/2014 22:25	68.5	70.5	65.2	16/12/2014 21:55	71.2	73.7	65.2	17/12/2014 21:25	70.4	72.5	65.7
15/12/2014 22:30	70.9	74.4	64.7	16/12/2014 22:00	71.1	73.8	65.1	17/12/2014 21:30	69.5	71.9	66.0
15/12/2014 22:35	67.0	69.4	62.0	16/12/2014 22:05	71.0	74.2	66.0	17/12/2014 21:35	70.2	73.1	65.4
15/12/2014 22:40	69.7	72.7	61.2	16/12/2014 22:10	71.7	74.3	65.7	17/12/2014 21:40	70.3	73.2	65.3
15/12/2014 22:45	69.8	72.6	62.1	16/12/2014 22:15	69.6	71.3	66.0	17/12/2014 21:45	69.7	72.6	65.1
15/12/2014 22:50	67.2	70.1	62.1	16/12/2014 22:20	71.5	74.0	66.4	17/12/2014 21:50	69.0	71.9	64.9
15/12/2014 22:55	68.0	70.5	60.0	16/12/2014 22:25	69.8	72.4	64.5	17/12/2014 21:55	70.5	73.2	65.4
16/12/2014 19:00	73.1	76.7	67.6	16/12/2014 22:30	70.2	73.1	65.8	17/12/2014 22:00	70.9	73.4	66.9
16/12/2014 19:05	69.9	71.8	67.1	16/12/2014 22:35	70.1	73.0	65.1	17/12/2014 22:05	70.4	73.4	65.6
16/12/2014 19:10	71.2	74.1	67.9	16/12/2014 22:40	69.7	73.2	64.2	17/12/2014 22:10	70.5	72.9	64.8
16/12/2014 19:15	72.1	75.2	67.2	16/12/2014 22:45	69.2	71.2	65.2	17/12/2014 22:15	67.8	70.4	64.0
16/12/2014 19:20	73.9	75.4	68.5	16/12/2014 22:50	68.7	71.5	63.1	17/12/2014 22:20	74.8	75.0	64.4
16/12/2014 19:25	70.8	72.8	67.2	16/12/2014 22:55	67.9	70.4	62.0	17/12/2014 22:25	68.3	70.1	64.5
16/12/2014 19:30	72.1	74.0	68.7	17/12/2014 19:00	72.4	75.6	67.4	17/12/2014 22:30	73.4	76.2	66.0
16/12/2014 19:35	71.8	74.3	68.7	17/12/2014 19:05	71.1	74.1	66.9	17/12/2014 22:35	70.2	73.4	64.4
16/12/2014 19:40	72.6	75.1	69.5	17/12/2014 19:10	71.6	74.3	67.0	17/12/2014 22:40	69.3	72.3	63.7
16/12/2014 19:45	72.1	74.1	69.0	17/12/2014 19:15	70.5	73.2	66.9	17/12/2014 22:45	68.9	70.8	63.9
16/12/2014 19:50	73.1	75.2	67.9	17/12/2014 19:20	70.3	73.2	65.8	17/12/2014 22:50	70.2	72.7	63.4
16/12/2014 19:55	73.6	76.1	69.3	17/12/2014 19:25	69.7	72.0	66.1	17/12/2014 22:55	69.9	72.1	63.9
16/12/2014 20:00	73.0	75.6	68.8	17/12/2014 19:30	69.6	71.8	66.1	18/12/2014 19:00	71.8	74.1	67.9
16/12/2014 20:05	72.5	75.1	68.7	17/12/2014 19:35	71.2	73.6	66.7	18/12/2014 19:05	71.5	74.2	67.2
16/12/2014 20:10	73.2	75.4	68.2	17/12/2014 19:40	70.4	72.8	66.2	18/12/2014 19:10	69.7	72.2	66.5
16/12/2014 20:15	70.6	72.3	68.3	17/12/2014 19:45	71.5	75.2	66.8	18/12/2014 19:15	70.9	72.0	66.4
16/12/2014 20:20	72.7	75.4	68.9	17/12/2014 19:50	71.4	73.9	68.4	18/12/2014 19:20	72.3	74.5	69.1
16/12/2014 20:25	72.5	75.3	68.6	17/12/2014 19:55	71.5	74.0	68.4	18/12/2014 19:25	71.1	73.6	67.8
16/12/2014 20:30	72.9	75.5	68.5	17/12/2014 20:00	72.7	75.3	68.8	18/12/2014 19:30	71.7	73.2	69.6
16/12/2014 20:35	73.9	76.9	69.6	17/12/2014 20:05	72.2	74.8	68.5	18/12/2014 19:35	71.8	73.9	69.1
16/12/2014 20:40	71.0	73.7	67.0	17/12/2014 20:10	72.2	74.3	69.3	18/12/2014 19:40	71.3	73.0	68.9
16/12/2014 20:45	72.7	75.8	67.9	17/12/2014 20:15	72.6	74.4	69.1	18/12/2014 19:45	72.6	74.7	70.0
16/12/2014 20:50	72.5	75.2	67.8	17/12/2014 20:20	72.4	74.6	69.3	18/12/2014 19:50	73.7	75.5	71.4
16/12/2014 20:55	71.8	74.6	67.5	17/12/2014 20:25	72.3	74.4	69.5	18/12/2014 19:55	75.2	79.0	69.7
16/12/2014 21:00	71.7	74.5	67.1	17/12/2014 20:30	73.1	75.5	69.7	18/12/2014 20:00	73.6	75.3	70.4
16/12/2014 21:05	70.1	72.3	65.6	17/12/2014 20:35	72.8	76.0	68.1	18/12/2014 20:05	73.1	75.5	69.5
16/12/2014 21:10	70.3	73.1	66.3	17/12/2014 20:40	72.2	74.8	67.7	18/12/2014 20:10	73.2	75.5	70.1
16/12/2014 21:15	70.2	72.0	65.2	17/12/2014 20:45	71.0	73.8	66.7	18/12/2014 20:15	72.9	75.1	69.8
16/12/2014 21:20	70.3	73.5	64.1	17/12/2014 20:50	71.5	75.0	66.3	18/12/2014 20:20	73.2	75.6	69.5
16/12/2014 21:25	69.8	71.9	64.8	17/12/2014 20:55	70.6	73.2	66.6	18/12/2014 20:25	73.6	75.6	70.0
16/12/2014 21:30	70.4	73.7	65.1	17/12/2014 21:00	74.2	74.8	68.3	18/12/2014 20:30	73.6	75.7	69.8

18/12/2014 20:35	73.5	76.5	69.8
18/12/2014 20:40	73.3	75.6	69.8
18/12/2014 20:45	73.2	76.0	68.8
18/12/2014 20:50	73.3	76.2	68.5
18/12/2014 20:55	72.9	75.3	69.3
18/12/2014 21:00	72.9	75.7	67.8
18/12/2014 21:05	71.4	74.7	65.9
18/12/2014 21:10	69.7	71.7	65.0
18/12/2014 21:15	69.8	72.9	63.6
18/12/2014 21:20	69.7	72.3	64.5
18/12/2014 21:25	70.7	73.8	65.6
18/12/2014 21:30	70.2	72.4	65.0
18/12/2014 21:35	69.6	72.3	63.9
18/12/2014 21:40	69.3	72.0	64.7
18/12/2014 21:45	70.3	73.1	64.6
18/12/2014 21:50	69.7	72.3	65.0
18/12/2014 21:55	69.5	72.3	65.4
18/12/2014 22:00	70.4	72.3	65.6
18/12/2014 22:05	70.1	72.2	65.6
18/12/2014 22:10	71.0	73.9	65.4
18/12/2014 22:15	70.1	72.1	67.4
18/12/2014 22:20	70.5	72.5	66.9
18/12/2014 22:25	69.6	71.9	65.3
18/12/2014 22:30	69.2	71.7	63.7
18/12/2014 22:35	70.4	73.7	65.3
18/12/2014 22:40	70.7	73.0	64.8
18/12/2014 22:45	68.5	71.6	63.5
18/12/2014 22:50	69.7	72.7	62.9
18/12/2014 22:55	67.0	70.6	60.4
19/12/2014 19:00	72.9	75.1	69.7
19/12/2014 19:05	73.1	75.4	69.5
19/12/2014 19:10	73.5	76.4	69.5
19/12/2014 19:15	72.0	75.0	68.4
19/12/2014 19:20	72.5	75.1	68.4
19/12/2014 19:25	74.8	77.4	71.3
19/12/2014 19:30	72.4	74.6	69.3
19/12/2014 19:35	72.4	74.8	67.8
19/12/2014 19:40	73.2	76.3	69.4
19/12/2014 19:45	73.4	75.6	70.7
19/12/2014 19:50	73.7	75.8	69.6
19/12/2014 19:55	73.0	75.1	69.5
19/12/2014 20:00	73.7	75.8	70.7
19/12/2014 20:05	73.9	75.6	70.8
19/12/2014 20:10	72.1	73.6	69.8
19/12/2014 20:15	74.1	76.4	71.2
19/12/2014 20:20	73.7	76.4	70.5
19/12/2014 20:25	74.5	77.2	70.6
19/12/2014 20:30	73.7	75.3	71.5
19/12/2014 20:35	74.3	76.8	70.8
19/12/2014 20:40	73.5	75.9	69.2
19/12/2014 20:45	73.4	76.0	69.2
19/12/2014 20:50	72.3	74.8	68.5
19/12/2014 20:55	73.2	75.7	68.4
19/12/2014 21:00	72.5	74.8	68.6
19/12/2014 21:05	70.7	73.7	66.1
19/12/2014 21:10	70.9	73.1	67.2
19/12/2014 21:15	71.7	74.4	66.5
19/12/2014 21:20	71.6	74.6	67.3
19/12/2014 21:25	71.5	74.2	67.2
19/12/2014 21:30	71.5	74.2	66.5
19/12/2014 21:35	70.9	73.9	66.5
19/12/2014 21:40	72.9	74.6	67.9
19/12/2014 21:45	71.2	74.1	66.6
19/12/2014 21:50	71.1	73.3	67.2
19/12/2014 21:55	70.5	73.0	66.5
19/12/2014 22:00	70.0	72.5	66.3
19/12/2014 22:05	70.8	74.0	66.2
19/12/2014 22:10	71.7	74.4	67.1
19/12/2014 22:15	71.4	73.9	66.6
19/12/2014 22:20	70.7	72.9	66.6
19/12/2014 22:25	69.6	71.8	63.9
19/12/2014 22:30	68.6	71.6	63.6
19/12/2014 22:35	69.7	72.4	64.6
19/12/2014 22:40	69.5	72.1	61.5
19/12/2014 22:45	72.1	75.4	65.1
19/12/2014 22:50	70.7	73.2	64.6
19/12/2014 22:55	69.3	72.3	63.6

Noise Monitoring Data M1a

General holidays (including Sundays) during day time 07:00hr to 19:00hr

	Leq(5mins)	L10	L90
	dB(A)	dB(A)	dB(A)
7/12/2014 7:00	70.7	74.6	61.9
7/12/2014 7:05	68.4	73.4	61.5
7/12/2014 7:10	67.6	71.0	62.6
7/12/2014 7:15	69.5	73.0	63.4
7/12/2014 7:20	70.7	74.0	63.4
7/12/2014 7:25	68.7	72.5	62.4
7/12/2014 7:30	67.4	70.2	63.4
7/12/2014 7:35	70.5	73.9	64.1
7/12/2014 7:40	71.9	75.4	65.5
7/12/2014 7:45	72.3	75.4	65.3
7/12/2014 7:50	71.1	74.8	65.2
7/12/2014 7:55	70.5	74.3	62.8
7/12/2014 8:00	70.9	74.4	63.8
7/12/2014 8:05	70.5	74.5	63.0
7/12/2014 8:10	70.0	73.4	63.8
7/12/2014 8:15	69.3	72.4	64.2
7/12/2014 8:20	70.6	74.0	64.6
7/12/2014 8:25	71.8	75.6	64.6
7/12/2014 8:30	70.6	74.1	65.2
7/12/2014 8:35	69.7	72.9	65.0
7/12/2014 8:40	70.2	73.1	65.4
7/12/2014 8:45	72.6	75.8	66.6
7/12/2014 8:50	70.2	74.0	64.3
7/12/2014 8:55	69.9	72.4	64.3
7/12/2014 9:00	71.7	75.1	65.8
7/12/2014 9:05	69.3	72.7	64.2
7/12/2014 9:10	70.8	74.9	63.8
7/12/2014 9:15	69.4	72.7	63.8
7/12/2014 9:20	71.0	75.0	64.5
7/12/2014 9:25	71.0	74.3	64.9
7/12/2014 9:30	70.1	73.6	63.8
7/12/2014 9:35	69.9	73.4	63.4
7/12/2014 9:40	70.3	73.5	65.3
7/12/2014 9:45	69.4	72.6	64.1
7/12/2014 9:50	69.9	72.9	64.5
7/12/2014 9:55	70.6	74.3	63.6
7/12/2014 10:00	70.5	73.5	65.1
7/12/2014 10:05	67.7	70.5	62.0
7/12/2014 10:10	70.6	74.4	63.1
7/12/2014 10:15	70.7	73.7	63.2
7/12/2014 10:20	71.9	75.5	65.0
7/12/2014 10:25	69.0	72.1	64.0
7/12/2014 10:30	69.6	73.0	63.9
7/12/2014 10:35	70.7	74.1	64.3
7/12/2014 10:40	71.9	75.1	66.2
7/12/2014 10:45	70.3	73.9	63.1
7/12/2014 10:50	71.3	74.2	65.3
7/12/2014 10:55	70.0	72.9	64.6
7/12/2014 11:00	71.5	74.3	63.9
7/12/2014 11:05	70.4	73.3	64.8
7/12/2014 11:10	70.3	73.6	64.1
7/12/2014 11:15	70.0	73.5	64.3
7/12/2014 11:20	69.2	72.7	63.0
7/12/2014 11:25	70.2	73.0	63.8
7/12/2014 11:30	71.8	74.4	66.7
7/12/2014 11:35	69.9	72.7	64.6
7/12/2014 11:40	71.1	74.4	63.0
7/12/2014 11:45	68.7	71.1	62.7
7/12/2014 11:50	70.5	73.0	64.8
7/12/2014 11:55	71.1	74.0	64.0
7/12/2014 12:00	70.7	72.9	66.1
7/12/2014 12:05	71.0	73.3	67.6
7/12/2014 12:10	71.0	73.5	67.8
7/12/2014 12:15	71.5	73.6	68.0
7/12/2014 12:20	71.9	74.0	68.8
7/12/2014 12:25	73.1	75.3	68.9
7/12/2014 12:30	71.7	73.6	69.3
7/12/2014 12:35	72.4	74.3	69.2
7/12/2014 12:40	72.0	74.5	67.5
7/12/2014 12:45	72.1	74.7	68.0
7/12/2014 12:50	72.0	74.7	68.3
7/12/2014 12:55	72.0	74.4	68.9
7/12/2014 13:00	71.5	73.7	68.1
7/12/2014 13:05	71.9	74.6	67.4
7/12/2014 13:10	72.3	74.6	68.9
7/12/2014 13:15	71.3	73.9	67.8
7/12/2014 13:20	72.0	74.3	67.8
7/12/2014 13:25	71.7	74.3	67.5
7/12/2014 13:30	72.8	75.6	68.7
7/12/2014 13:35	72.2	74.6	68.5
7/12/2014 13:40	72.2	74.7	68.3
7/12/2014 13:45	71.1	73.9	67.1
7/12/2014 13:50	71.7	73.8	67.3
7/12/2014 13:55	71.6	74.2	67.4
7/12/2014 14:00	72.1	74.4	66.8
7/12/2014 14:05	71.0	73.7	65.4
7/12/2014 14:10	70.5	73.7	65.1
7/12/2014 14:15	70.9	73.9	66.1
7/12/2014 14:20	71.4	74.1	67.1
7/12/2014 14:25	70.8	72.4	65.1
7/12/2014 14:30	71.2	74.4	66.0
7/12/2014 14:35	68.3	71.0	64.6
7/12/2014 14:40	69.3	72.9	64.1
7/12/2014 14:45	71.7	74.5	65.8
7/12/2014 14:50	70.8	73.9	65.6
7/12/2014 14:55	70.4	72.8	65.8
7/12/2014 15:00	71.3	73.7	66.5
7/12/2014 15:05	70.7	73.0	66.5
7/12/2014 15:10	71.2	73.8	66.4
7/12/2014 15:15	69.4	72.1	65.2
7/12/2014 15:20	71.0	74.0	64.9
7/12/2014 15:25	68.8	71.4	64.2
7/12/2014 15:30	71.1	74.2	65.2
7/12/2014 15:35	70.8	74.3	64.5
7/12/2014 15:40	69.9	73.0	64.0
7/12/2014 15:45	69.8	72.9	63.3
7/12/2014 15:50	70.7	73.3	66.6
7/12/2014 15:55	71.4	73.7	65.6
7/12/2014 16:00	71.2	74.6	65.8
7/12/2014 16:05	71.1	74.1	66.7
7/12/2014 16:10	69.9	72.3	65.2
7/12/2014 16:15	69.1	71.5	63.8
7/12/2014 16:20	70.5	73.2	65.4
7/12/2014 16:25	68.8	70.8	64.1
7/12/2014 16:30	71.2	73.9	66.5
7/12/2014 16:35	70.0	73.8	62.8
7/12/2014 16:40	71.4	74.4	65.9
7/12/2014 16:45	71.2	74.0	65.8
7/12/2014 16:50	71.2	73.9	66.7
7/12/2014 16:55	71.8	74.8	66.1

7/12/2014 17:00	71.5	73.5	64.7	14/12/2014 8:30	69.8	72.5	66.1	14/12/2014 12:00	69.4	72.0	64.4
7/12/2014 17:05	72.1	74.4	67.7	14/12/2014 8:35	69.7	71.9	66.2	14/12/2014 12:05	70.7	72.7	66.1
7/12/2014 17:10	71.1	72.6	68.5	14/12/2014 8:40	69.5	72.5	64.9	14/12/2014 12:10	71.0	73.3	67.6
7/12/2014 17:15	72.0	73.8	68.5	14/12/2014 8:45	69.8	72.1	64.4	14/12/2014 12:15	70.7	72.7	66.8
7/12/2014 17:20	72.0	74.4	67.6	14/12/2014 8:50	68.7	71.3	64.2	14/12/2014 12:20	70.8	73.4	67.0
7/12/2014 17:25	72.8	75.0	69.0	14/12/2014 8:55	69.6	72.2	64.7	14/12/2014 12:25	71.8	74.7	67.6
7/12/2014 17:30	73.1	75.6	67.7	14/12/2014 9:00	67.7	70.5	63.3	14/12/2014 12:30	72.1	74.4	67.3
7/12/2014 17:35	71.5	74.8	67.6	14/12/2014 9:05	68.2	70.8	63.5	14/12/2014 12:35	70.7	73.1	67.2
7/12/2014 17:40	71.9	74.6	68.3	14/12/2014 9:10	70.5	73.3	64.9	14/12/2014 12:40	70.6	73.0	66.5
7/12/2014 17:45	72.8	75.7	66.5	14/12/2014 9:15	70.0	72.9	65.0	14/12/2014 12:45	69.9	71.7	66.6
7/12/2014 17:50	73.2	75.7	69.6	14/12/2014 9:20	69.8	72.4	65.4	14/12/2014 12:50	71.4	73.8	65.9
7/12/2014 17:55	73.4	76.2	69.6	14/12/2014 9:25	69.0	71.7	65.0	14/12/2014 12:55	70.0	72.3	66.4
7/12/2014 18:00	73.1	75.9	68.6	14/12/2014 9:30	70.4	73.2	65.6	14/12/2014 13:00	70.6	73.1	66.4
7/12/2014 18:05	72.9	75.0	68.1	14/12/2014 9:35	72.8	74.3	65.8	14/12/2014 13:05	71.6	73.4	66.6
7/12/2014 18:10	72.3	74.8	69.0	14/12/2014 9:40	69.2	71.9	65.2	14/12/2014 13:10	70.0	72.4	66.1
7/12/2014 18:15	73.2	76.3	68.4	14/12/2014 9:45	69.5	72.1	64.4	14/12/2014 13:15	71.0	73.0	66.6
7/12/2014 18:20	73.1	75.6	68.6	14/12/2014 9:50	67.5	69.9	64.4	14/12/2014 13:20	72.2	74.0	67.6
7/12/2014 18:25	73.5	76.7	68.8	14/12/2014 9:55	68.8	71.3	64.2	14/12/2014 13:25	71.8	74.5	67.7
7/12/2014 18:30	73.4	76.1	68.9	14/12/2014 10:00	69.2	72.4	64.4	14/12/2014 13:30	72.1	74.7	67.5
7/12/2014 18:35	71.6	73.7	68.6	14/12/2014 10:05	71.7	72.7	64.8	14/12/2014 13:35	71.8	74.2	67.6
7/12/2014 18:40	72.8	75.8	68.2	14/12/2014 10:10	70.1	73.6	63.7	14/12/2014 13:40	72.0	74.7	67.8
7/12/2014 18:45	71.5	73.4	67.3	14/12/2014 10:15	68.5	70.8	64.3	14/12/2014 13:45	70.9	73.3	67.5
7/12/2014 18:50	72.5	75.1	68.8	14/12/2014 10:20	69.1	71.9	64.7	14/12/2014 13:50	71.3	74.3	66.8
7/12/2014 18:55	73.5	76.5	68.4	14/12/2014 10:25	68.9	72.4	64.0	14/12/2014 13:55	70.7	73.4	66.2
14/12/2014 7:00	66.8	70.5	60.1	14/12/2014 10:30	69.7	72.6	64.8	14/12/2014 14:00	70.7	72.9	66.2
14/12/2014 7:05	66.3	69.8	60.8	14/12/2014 10:35	69.0	71.8	64.7	14/12/2014 14:05	70.3	73.2	65.6
14/12/2014 7:10	66.7	70.3	61.0	14/12/2014 10:40	69.7	72.8	64.9	14/12/2014 14:10	70.7	73.5	65.0
14/12/2014 7:15	68.9	70.9	62.4	14/12/2014 10:45	68.8	71.4	64.8	14/12/2014 14:15	69.1	71.8	65.0
14/12/2014 7:20	66.8	69.8	62.8	14/12/2014 10:50	70.2	72.4	64.1	14/12/2014 14:20	69.7	72.2	64.5
14/12/2014 7:25	68.0	70.9	62.7	14/12/2014 10:55	69.6	72.3	65.5	14/12/2014 14:25	69.2	71.6	64.3
14/12/2014 7:30	68.6	71.2	64.0	14/12/2014 11:00	68.7	71.5	64.4	14/12/2014 14:30	69.2	72.0	64.9
14/12/2014 7:35	68.5	70.6	63.2	14/12/2014 11:05	69.0	71.6	64.9	14/12/2014 14:35	70.0	72.4	64.7
14/12/2014 7:40	68.9	72.2	62.9	14/12/2014 11:10	70.5	73.1	64.9	14/12/2014 14:40	72.2	74.8	66.7
14/12/2014 7:45	67.0	69.8	62.4	14/12/2014 11:15	69.9	72.4	65.0	14/12/2014 14:45	70.1	72.9	65.2
14/12/2014 7:50	67.3	70.3	62.9	14/12/2014 11:20	68.5	71.2	63.1	14/12/2014 14:50	70.4	73.0	65.5
14/12/2014 7:55	68.3	71.4	63.5	14/12/2014 11:25	69.0	71.3	64.1	14/12/2014 14:55	69.5	71.9	65.1
14/12/2014 8:00	66.4	69.5	61.5	14/12/2014 11:30	70.8	73.2	65.5	14/12/2014 15:00	71.4	74.7	65.9
14/12/2014 8:05	68.0	71.2	62.8	14/12/2014 11:35	69.5	72.3	63.7	14/12/2014 15:05	70.2	73.1	65.3
14/12/2014 8:10	67.9	70.5	63.2	14/12/2014 11:40	69.7	72.2	63.6	14/12/2014 15:10	70.3	73.3	64.6
14/12/2014 8:15	69.2	72.0	65.1	14/12/2014 11:45	68.9	71.2	63.3	14/12/2014 15:15	69.5	72.1	65.0
14/12/2014 8:20	67.8	70.0	64.9	14/12/2014 11:50	69.0	71.8	63.7	14/12/2014 15:20	71.4	74.6	64.9
14/12/2014 8:25	68.9	72.1	64.6	14/12/2014 11:55	68.5	71.1	63.2	14/12/2014 15:25	68.0	70.0	64.6

14/12/2014 15:30	70.3	72.9	65.3
14/12/2014 15:35	68.5	71.1	63.7
14/12/2014 15:40	71.5	74.5	65.3
14/12/2014 15:45	70.3	72.9	65.3
14/12/2014 15:50	70.0	73.5	63.0
14/12/2014 15:55	68.9	72.2	64.2
14/12/2014 16:00	70.9	73.2	66.5
14/12/2014 16:05	71.0	73.7	66.0
14/12/2014 16:10	70.2	73.0	64.7
14/12/2014 16:15	70.6	72.8	64.3
14/12/2014 16:20	70.6	73.6	64.5
14/12/2014 16:25	70.4	73.8	65.0
14/12/2014 16:30	70.6	73.3	64.5
14/12/2014 16:35	70.5	73.7	64.9
14/12/2014 16:40	71.6	75.0	65.8
14/12/2014 16:45	71.2	74.1	65.7
14/12/2014 16:50	70.0	73.1	65.0
14/12/2014 16:55	70.7	73.6	64.6
14/12/2014 17:00	71.6	75.1	65.5
14/12/2014 17:05	70.4	74.0	65.1
14/12/2014 17:10	71.4	74.0	67.3
14/12/2014 17:15	71.7	74.2	67.9
14/12/2014 17:20	72.9	75.4	68.9
14/12/2014 17:25	73.1	75.3	70.1
14/12/2014 17:30	72.9	75.5	68.9
14/12/2014 17:35	72.4	74.3	69.3
14/12/2014 17:40	73.1	75.7	68.4
14/12/2014 17:45	72.1	74.6	69.0
14/12/2014 17:50	73.7	76.0	68.0
14/12/2014 17:55	72.7	75.9	67.5
14/12/2014 18:00	71.5	73.9	68.3
14/12/2014 18:05	72.5	75.3	67.8
14/12/2014 18:10	72.0	74.2	67.1
14/12/2014 18:15	72.1	74.1	68.5
14/12/2014 18:20	71.9	73.9	68.7
14/12/2014 18:25	72.7	75.6	67.4
14/12/2014 18:30	72.4	75.5	68.2
14/12/2014 18:35	72.3	74.7	69.2
14/12/2014 18:40	72.7	75.3	68.5
14/12/2014 18:45	72.6	75.3	68.7
14/12/2014 18:50	72.6	75.5	68.5
14/12/2014 18:55	71.1	73.6	66.3

Noise Monitoring Data M1a

General holidays (including Sundays) during evening 19:00hr to 23:00hr

	Leq(5mins)	L10	L90
	dB(A)	dB(A)	dB(A)
7/12/2014 19:00	72.3	75.2	67.1
7/12/2014 19:05	72.1	75.0	66.5
7/12/2014 19:10	70.7	74.1	65.2
7/12/2014 19:15	71.2	74.2	65.3
7/12/2014 19:20	71.7	74.6	64.7
7/12/2014 19:25	72.8	75.1	67.0
7/12/2014 19:30	71.5	74.6	66.3
7/12/2014 19:35	71.5	74.1	66.8
7/12/2014 19:40	72.1	75.0	67.5
7/12/2014 19:45	71.7	74.8	66.7
7/12/2014 19:50	73.9	76.3	68.8
7/12/2014 19:55	71.4	74.4	66.4
7/12/2014 20:00	72.0	75.1	67.3
7/12/2014 20:05	73.1	74.6	65.9
7/12/2014 20:10	71.2	75.0	63.9
7/12/2014 20:15	71.0	73.8	66.2
7/12/2014 20:20	72.5	75.3	65.4
7/12/2014 20:25	70.8	73.3	65.2
7/12/2014 20:30	71.0	73.6	66.2
7/12/2014 20:35	70.7	74.0	62.5
7/12/2014 20:40	70.0	73.3	64.5
7/12/2014 20:45	70.1	72.4	63.6
7/12/2014 20:50	70.6	74.1	63.8
7/12/2014 20:55	76.9	75.3	63.1
7/12/2014 21:00	71.6	74.3	63.6
7/12/2014 21:05	69.4	72.5	62.5
7/12/2014 21:10	70.0	72.5	65.2
7/12/2014 21:15	70.4	73.5	63.7
7/12/2014 21:20	69.7	73.2	61.0
7/12/2014 21:25	69.0	72.3	61.8
7/12/2014 21:30	70.4	74.3	64.2
7/12/2014 21:35	68.6	71.3	61.8
7/12/2014 21:40	69.7	72.8	63.3
7/12/2014 21:45	68.6	72.1	61.1
7/12/2014 21:50	70.5	73.2	62.9
7/12/2014 21:55	69.2	71.6	60.6
7/12/2014 22:00	71.2	74.3	63.5
7/12/2014 22:05	68.2	71.4	62.5
7/12/2014 22:10	68.0	70.5	62.8
7/12/2014 22:15	69.9	71.8	63.2
7/12/2014 22:20	68.4	71.4	63.3
7/12/2014 22:25	67.2	70.2	60.9
7/12/2014 22:30	70.0	73.5	62.8
7/12/2014 22:35	69.0	72.2	62.0
7/12/2014 22:40	69.4	72.5	62.1
7/12/2014 22:45	68.4	71.8	61.2
7/12/2014 22:50	68.7	70.8	62.1
7/12/2014 22:55	68.3	71.9	61.0
14/12/2014 19:00	71.6	74.8	66.5
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14/12/2014 19:15	71.4	73.9	67.3
14/12/2014 19:20	72.1	75.5	66.9
14/12/2014 19:25	70.9	74.3	66.4
14/12/2014 19:30	70.6	73.5	66.2
14/12/2014 19:35	71.5	73.8	67.6
14/12/2014 19:40	71.8	74.4	67.2
14/12/2014 19:45	71.4	74.6	65.2
14/12/2014 19:50	72.0	75.6	67.1
14/12/2014 19:55	71.6	74.3	66.7
14/12/2014 20:00	71.2	74.2	66.0
14/12/2014 20:05	71.4	74.1	66.6
14/12/2014 20:10	69.5	72.7	63.2
14/12/2014 20:15	69.8	73.2	64.5
14/12/2014 20:20	71.2	74.3	64.9
14/12/2014 20:25	70.4	72.6	65.7
14/12/2014 20:30	72.8	76.0	65.0
14/12/2014 20:35	70.2	73.2	65.5
14/12/2014 20:40	70.9	73.6	65.6
14/12/2014 20:45	71.7	74.0	67.0
14/12/2014 20:50	70.6	74.0	64.6
14/12/2014 20:55	68.6	71.4	63.5
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14/12/2014 21:20	68.9	72.2	61.6
14/12/2014 21:25	67.3	70.2	61.5
14/12/2014 21:30	70.0	72.8	63.4
14/12/2014 21:35	70.8	73.5	64.3
14/12/2014 21:40	67.9	71.3	61.9
14/12/2014 21:45	69.5	73.2	63.6
14/12/2014 21:50	70.2	73.7	62.6
14/12/2014 21:55	68.2	70.8	61.9
14/12/2014 22:00	69.7	72.7	64.2
14/12/2014 22:05	69.1	72.9	61.7
14/12/2014 22:10	70.4	73.9	61.7
14/12/2014 22:15	69.3	72.0	61.9
14/12/2014 22:20	67.9	70.6	62.0
14/12/2014 22:25	69.8	72.9	63.7
14/12/2014 22:30	70.1	73.5	62.0
14/12/2014 22:35	70.6	73.9	61.8
14/12/2014 22:40	67.9	71.3	60.6
14/12/2014 22:45	68.9	73.1	60.3
14/12/2014 22:50	67.9	71.1	61.7
14/12/2014 22:55	68.7	71.7	62.8

Appendix E

Baseline noise level review for WanChai Development Phase II and Central WanChai Bypass under EP-356/2009 and EP/364/2009/C in 2011.

CONTRACT NO: HK/2009/05

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

REPORT OF REVIEW BASELINE NOISE LEVEL

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

Lam Geotechnics Limited

11/F Centre Point
181-185 Gloucester Road,
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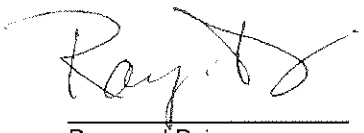
CERTIFIED BY:



Raymond Dai
Environmental Team Leader

DATE:

20 June 2011

ENVIRON

Ref.: AACWBIECEM00_0_1583L.11 18 July 2011

Lam Geotechnics Limited
11/F Centre Point
181-185 Gluocester Road
Wan Chai, Hong Kong

By Post and Fax (2882 3331)

Attention: Mr. Raymond Dai

Dear Sir,

Re: Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass – Sampling, Field Measurement and Testing Works (Stage 1)
Report of Review Baseline Noise Level

Reference is made to your submission of the captioned submission dated 20 June 2011 by E-mail for our review and comment.

Please be informed that we have no adverse comment on the captioned submission.

Thank you for your kind attention.

Yours sincerely,

David Yeung
Independent Environmental Checker

c.c. AECOM Mr. Frankie Fan by fax: 2587 1877

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1. INTRODUCTION

1.1.1. According to the Section 3.5.3 of Updated EM&A Manual for EP-356/2009 and Section 3.4.3 of Updated EM&A Manual for EP-364/2009/A, an appropriate set of baseline reference to be used in the exceptional cases of insufficient baseline monitoring data or questionable results shall be submitted to the ER and IEC for agreement and EPD for approval.

1.1.2. In accordance with the baseline noise monitoring reports for EP no. EP-356/2009 and EP-364/2009/A, baseline noise monitoring at total 7 monitoring locations were conducted in December 2009. However, most of access permissions could not be obtained from the Noise Sensitive Receivers (NSRs) during the impact noise monitoring. Alternative noise monitoring stations were proposed to monitor the construction noise impact arising to the noise sensitive receivers. Supplementary baseline noise level at the alternative noise monitoring stations should be reviewed and obtained for the baseline noise reference.

1.1.3. The purpose of this report is to review the baseline noise level at the impact noise monitoring stations which have insufficient baseline monitoring data and the monitoring results will be reported in this report.

2. NOISE MONITORING

2.1 Noise Monitoring Stations

2.1.1. The noise monitoring stations for the baseline noise monitoring conducted in December 2009 and alternative noise monitoring stations for the impact noise monitoring are presented in the ***Table 2.1*** and ***Figure 2.1***.

Table 2.1 Noise Monitoring station

Environmental Permit	**Noise Monitoring Stations for the Baseline Noise Monitoring conducted in 2009**		**Alternative Noise Monitoring Stations for the Impact Noise Monitoring**	
	Station	**Description**	**Station**	**Description**
EP-356/2009 and EP-364/2009/A	M1a	Harbour Road Sports Centre (Orientation towards the HKCEC)	M1a	Harbour Road Sports Centre (Orientation to the Pet Garden)
EP-356/2009 and EP-364/2009/A	M2a	Caltex Petrol Filling Station	M2b	Noon Day Gun Area
EP-356/2009 and EP-364/2009/A	M3	Mayson Garden	M3a	Tung Lo Wan Fire Station
EP-356/2009 and EP-364/2009/A	M4a	Causeway Bay Community Centre	M4b	Victoria Centre
EP-356/2009 and EP-364/2009/A	M5a	Electric Centre	M5b	City Garden
EP-364/2009/A	M6	HK Baptist Church Henrietta Secondary School	N/A	N/A
EP-364/2009/A	M7a	Harbour Building	M7e	International Finance Centre (Eastern End of Podium)

Environmental Permit	Noise Monitoring Stations for the Baseline Noise Monitoring conducted in 2009		Alternative Noise Monitoring Stations for the Impact Noise Monitoring	
	Station	Description	Station	Description
			M7w	International Finance Centre (Western End of Podium)

2.2 Monitoring Equipments

2.2.1. As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

2.3 Monitoring Parameters, Frequency and Duration

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

2.3.2. The monitoring parameters, frequency and duration of the noise monitoring are summarized in ***Table 2.2***.

Table 2.2 Noise Monitoring Parameters, Frequency and Duration

Time Period	Duration	Parameters
0700-1900hrs on normal weekdays	$L_{eq(30min)}$	L_{eq}, L_{10} and L_{90}
Time period other than 0700-1900hrs on normal weekdays	$L_{eq(5min)}$	

2.4 Monitoring Methodology

2.4.1. Each proposed location will be monitored for a consecutive 7 days (including Sunday and general holiday) to measure the supplementary baseline noise levels for the proposed time period showed in **Table 2.3**. If the numbers of monitoring performed are less than that specified in **Table 2.3**, the monitoring period will be extended beyond 7 days (including Sunday and general holiday) in order to have sufficient monitoring events.

Table 2.3 Number of Monitoring in Different Time Periods

Time Periods	Period for Non-construction Hours	Minimum no. of monitoring per day	Duration of each Monitoring
Non-restricted hours	0700-1900hrs (normal weekdays)	2	30 min
Restricted hours	1900-2300hrs (normal weekdays)	6	5 min
	0700-2300hrs (Sunday and Public Holiday)	6	5 min
	2300-0700hrs (all days)	6	5 min

2.4.2. Measured noise level in first consecutive 7 days (including Sunday and general holiday) should be compared with the approved baseline results. Another 7 consecutive days (including Sunday and general holiday) at the concerned location to re-establish the baseline may be conducted if the averaged measured noise level in the concern time period deviate from the approved baseline result ±3dB(A) depends on the total numbers of results recorded. Less than 14 days (including Sunday and general holidays) of baseline monitoring will be conducted if IEC agrees with the baseline results and the measured supplementary baseline noise level can be adopted.

2.4.3. There shall not be any construction activities in the vicinity of the stations during the baseline noise monitoring. To avoid any construction activities undertaken during the proposed time period of the monitoring, monitoring will be arranged and liaised with Contractor's programme before the commencement of the baseline noise monitoring.

2.4.4. Since there are several contracts works undertaken near the monitoring stations, there will be limitation on conducting baseline noise monitoring during non-construction hours. The minimum number of monitoring for conducting the baseline noise monitoring is proposed as in Table 2.3 if there is no construction works undertaken. The scheduled date and time will be confirmed with Contractor prior to monitoring so as to ensure no project construction work will be undertaken. If condition allow, more baseline noise monitoring events shall be carried out. ET shall explore the possibility to maximum the number and time coverage of the baseline noise monitoring.

2.5 Monitoring Procedure

2.5.1. The noise monitoring shall follow the following procedures.

- The microphone head of the sound level meter shall be positioned 1m from the exterior of the sensitive receiver building façade and at 1.2m above ground shall be made at all monitoring station, Table 2.4 showed the types of measurement in each station.

Table 2.4 Type of measurement in each monitoring station

Station I.D.	Type of measurement
M7e	Facade
M7w	Facade
M1a	Facade
M2b	Facade
M3a	Facade
M4b	Facade
M5b	Façade
M6*	Façade

*Review of baseline noise level at M6 is unnecessary

- The battery condition shall be checked to ensure good functioning of the meter;
- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m s^{-1} or wind with gusts exceeding 10 m s^{-1}. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m s^{-1}.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- At the end of the monitoring period, the L_{eq}, L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.

2.6 Maintenance and Calibration

2.6.1. Maintenance and calibration procedures shall be as follows:

- The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals;
- The sound level meter and calibrator shall be checked and calibrated at yearly intervals.
- Calibration certificates of the sound level meters and acoustic calibrators are provided in **Appendix A**.

2.7 Results and observations

2.7.1. Total numbers of monitoring in each monitoring station are summarized in **Table 2.5.**
2.7.2. Noise level results comparisons with approved baseline are summarized in **Table 2.6.**
2.7.3. There was no other major activity influencing the measured noise level during the baseline noise monitoring period. The dominant noise sources were from community noises and nearby traffic.
2.7.4. Baseline noise monitoring was conducted according to the schedule showed in **Appendix C**.
2.7.5. Supplementary baseline noise monitoring results are summarized in **Table 2.6, 2.7 and 2.8.** Detailed noise monitoring results are presented in **Appendix B**.

Table 2.5 Total numbers of monitoring in each monitoring station

Station I.D.	Total no. of monitoring conducted (days) Note 1		
	0700 – 1900 hrs of normal weekdays	**all days during evening (1900-2300hrs), and general holidays (including Sundays) during the daytime and evening (0700-2300hrs)**	**all days during the nighttime (2300-0700hrs)**
M7e	21(6)	203(7)	80(7)
M7w	19(6)	149(7)	80(7)
M1a	12(6)	101(14)	N/A Note 2
M2b	24(14)	687(15)	180(15)
M3a	24(12)	642(15)	163(15)
M4b	24(12)	429(13)	132(11)
M5b	20(10)	465(14)	175(14)

Note 1: Noise measurements shall not be made in fog, rain
Note 2: Non-assessable during night time period.
Note 3: Due to TTA was conducted by contractor, the existing environment was consider changed. Only 7 days (including Sunday and general holiday) monitoring was conducted at M7e and M7w

Table 2.6 Noise level results comparisons with approved baseline

0700 – 1900 hrs of normal weekdays				**Averaged measured noise level in the time period deviate from the approved baseline result ±3dB(A) in first consecutive 7 days (including Sunday and general holiday)**
	L_{eq}(30-min), dB(A)			
I.D.	Approved Baseline Noise Levels	Average of Supplementary monitoring results	**I.D.**	
M7a	65.5	66.8	M7e	x
		69.3	M7w	✓
M1a	69.2	72.2	M1a	x
M2a	73.7	67.6	M2b	✓
M3	68.3	69	M3a	x
M4a	68.6	67.3	M4b	x
M5a	67.2	68.0	M5b	x
All days during evening (1900-2300hrs), and general holidays (including Sundays) during the daytime and evening (0700-2300hrs)				**Averaged measured noise level in the time period deviate from the approved baseline result ±3dB(A)**
	L_{eq}(5-min), dB(A)			
I.D.	**Original**	**Supplementary**	**I.D.**	
M7a	57.9	65	M7e	✓
		68	M7w	✓
M1a	60.1	71.3	M1a	✓
M2a	67.7	65.8	M2b	x
M3	61	65.5	M3a	✓

M4a	63.7	66.9	M4b	✓
M5a	61.9	67.2	M5b	✓
All days during the nighttime (2300-0700hrs)				**Averaged measured noise level in the time period deviate from the approved baseline result ±3dB(A)**
I.D.	**L_{eq}(5-min), dB(A) Original**	**Supplementary**	**I.D.**	
M7a	54.8	63.3	M7e	✓
		62.7	M7w	✓
M2a	65.3	65.5	M2b	x
M3	58.9	64.2	M3a	✓
M4a	60.9	65.8	M4b	✓
M5a	58.9	66.5	M5b	✓

Table 2.7 Summary of Supplementary Baseline Noise Monitoring results (0700 – 1900 hrs on normal weekdays)

0700 – 1900 hrs of normal weekdays	**L_{eq}(30-min), d(B)A**	
	Average	**Range**
M7e	66.8	65.5 - 69.2
M7w	69.4	66.1 - 71.2
M1a	72.2	70.7 - 73.7
M2b	67.6	66.3 - 68.9
M3a	68.8	66.9 - 70.3
M4b	67.3	64.4 - 69.6
M5b	68.0	66.3 - 69.6

Table 2.8 Summary of Supplementary Baseline Noise Monitoring Results (all days during evening (1900-2300hrs), and general holidays (including Sundays) during the daytime and evening (0700-2300hrs))

all days during evening (1900-2300hrs), and general holidays (including Sundays) during the daytime and evening (0700-2300hrs)	**L_{eq}(5-min), d(B)A**	
	Average	**Range**
M7e	65.0	60.2 - 67.9
M7w	68.0	63.7 - 71.5
M1a	71.3	68.4 – 73.8
M2b	65.8	63.4 – 69.3
M3a	65.5	63 – 68.6
M4b	67	62.4 – 70.4
M5b	67.2	64.8 – 71.2

Table 2.9 Summary of Supplementary Baseline Noise Monitoring Results (all days during the nighttime (2300-0700hrs))

all days during the nighttime (2300-0700hrs)	**L_{eq}(5-min), d(B)A**	
	Average	**Range**
M7e	63.3	60.8- 67.4
M7w	62.7	59.7- 64.9
M2b	65.4	63.9 – 67

M3a	64.2	62.8 – 65.6
M4b	65.8	64.3 – 67.1
M5b	67.1	65.4 – 69.6

2.8 Event and Action plan

Should non-compliance of the criteria occur, **Table 2.10**, action in accordance with the Event and Action Plan in **Table 2.11** shall be implemented.

Table 2.10 Action and limit level

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)[Note 1]

Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Table 2.11 Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	Contractor
Action Level	1. Notify the IEC and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IEC and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit noise mitigation proposals to IEC 2. Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)
Limit Level	1. Notify the IEC, the ER, the DEP and the Contractor.	1. Discuss amongst the ER, the ET and the Contractor	1. Confirm receipt of notification of failure in	1. Take immediate action to avoid further

EVENT	ACTION			
	ET	IEC	ER	Contractor
	2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IEC, the ER and the DEP the causes & actions taken for the exceedances. 7. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the ER informed of the results. 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	exceedance 2. Submit proposals for remedial actions to IEC within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

3 CONCLUSION

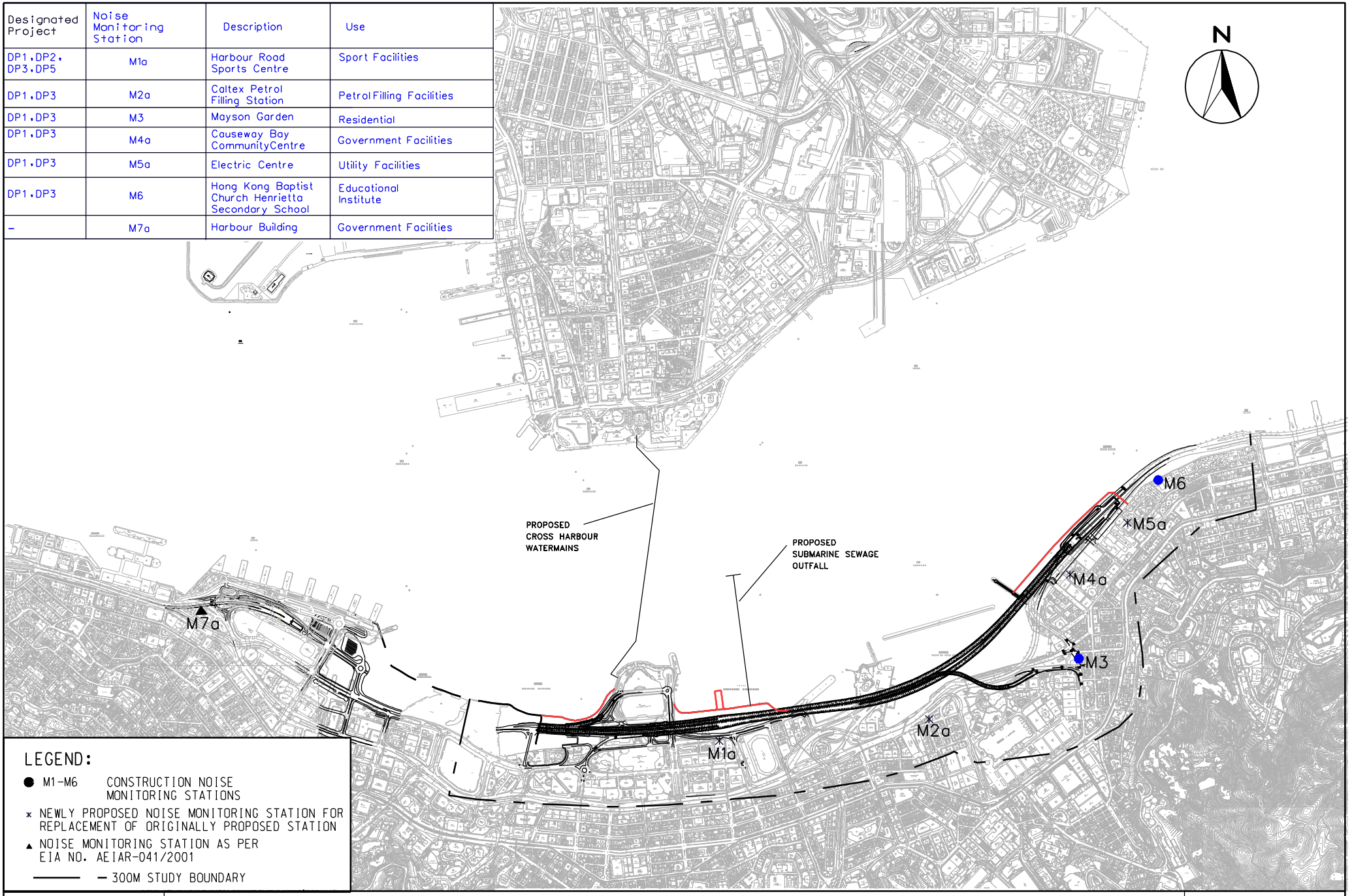
3.1 Supplementary baseline noise monitoring was carried out from 11 April 2011 to 8 June 2011. The Action Level of construction noise is based on documented complaints received, while the Limit Level is the level at a specific limit according to EIAO-TM.

3.2 Noise review was conducted at least 7 days (including Sunday and general holiday).

Figure 2.1

Location Plan for Noise Monitoring Stations (approved and supplementary)

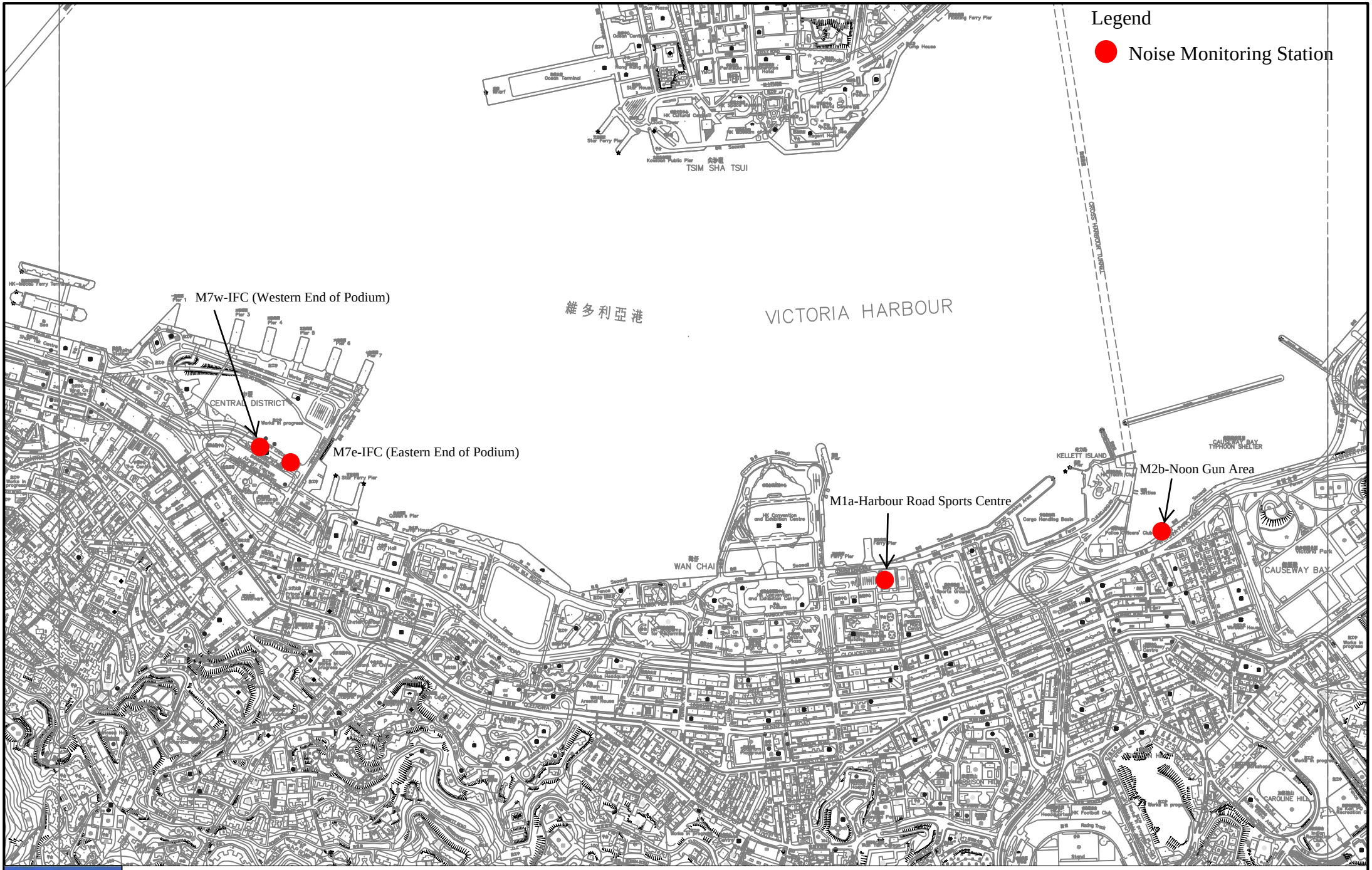
Designated Project	Noise Monitoring Station	Description	Use
DP1.DP2. DP3.DP5	M1a	Harbour Road Sports Centre	Sport Facilities
DP1.DP3	M2a	Caltex Petrol Filling Station	Petrol Filling Facilities
DP1.DP3	M3	Mayson Garden	Residential
DP1.DP3	M4a	Causeway Bay Community Centre	Government Facilities
DP1.DP3	M5a	Electric Centre	Utility Facilities
DP1.DP3	M6	Hong Kong Baptist Church Henrietta Secondary School	Educational Institute
–	M7a	Harbour Building	Government Facilities



WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

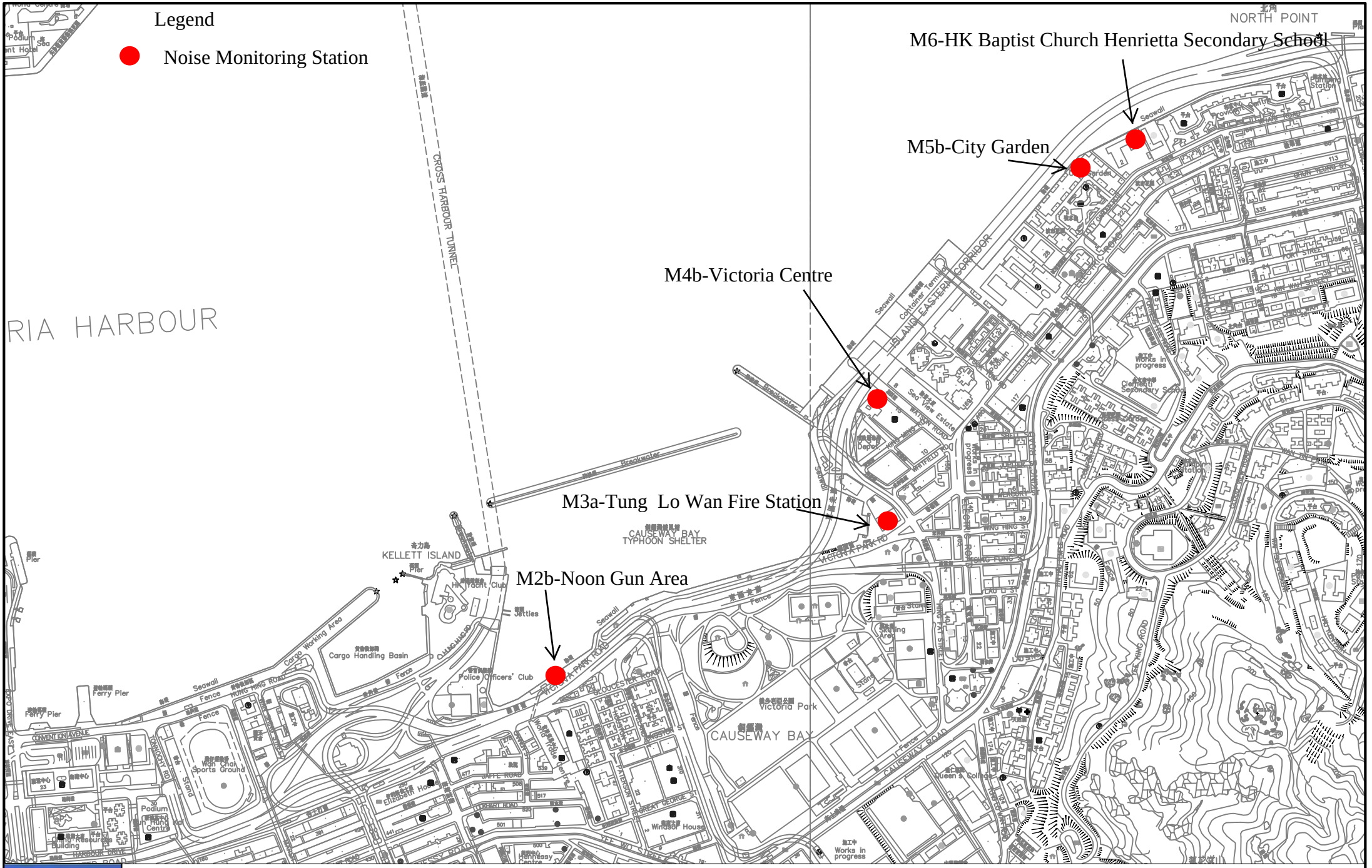
LOCATIONS OF NOISE MONITORING STATIONS

FIGURE 2.1



Contract no. HK/2009/05 Wan Chai Development Phase II and Central-Wan Chai Bypass

Locations of Environmental Monitoring Stations



Contract no. HK/2009/05 Wan Chai Development Phase II and Central-Wan Chai Bypass

Locations of Environmental Monitoring Stations

Appendix A

Calibration certificates of the sound level meters and acoustic calibrators

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. **06680** Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q02553 **Date of receipt :** 18-Nov-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ACO

Model : Type 6224 **Serial No. :** 050112

Test Conditions

Date of Test : 19-Nov-10 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

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

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

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

Calibrated by : _____
P. F. Wong

Approved by : _____
Dorothy Cheuk

Date: 23-Nov-10

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

--

Calibration Certificate

Results :

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

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

Uncertainty : ± 0.1 dB

Calibration Certificate

3.2 Differential level linearity

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

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

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

Uncertainty : ± 0.1 dB

Calibration Certificate

4. Time Averaging

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

Uncertainty : ± 0.1 dB

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

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

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 12889 Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982 **Date of receipt :** 25-May-11

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73 **Serial No. :** 10465798

Test Conditions

Date of Test : 26-May-11 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

Test Results

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

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Alan Chu

Date: 26-May-11

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

Calibration Certificate

Results :

1. Level Accuracy (at 1 kHz)

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

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

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

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.5 %
Mfr's Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. The above measured values are the mean of 3 measurement.
4. Atmospheric Pressure : 1 004 hPa
5. *Out of Specification

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

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. **03445** Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q01282 **Date of receipt :** 14-Jun-10

Item Tested

Description : Sound Level Calibrator (EL078)

Manufacturer : ONO SOKKI

Model : SC-2110 **Serial No. :** 00393

Test Conditions

Date of Test : 21-Jun-10 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z02.

Test Results

All results were within the IEC 942 Class 2 specification.

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 25-Jun-10

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

Calibration Certificate

Results :

1. Level Accuracy (at 1 kHz)

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

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

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

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB
IEC 942 Class 2 Spec. : ± 1.2 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 1.2 %
IEC 942 Class 1 Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The above measured values are the mean of 3 measurements.
3. The uncertainty claimed is for a confidence probability of not less than 95%.
4. Atmospheric Pressure : 1 000 hPa.

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

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 06681

Customer : Lam Geotechnics Limited

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

Order No. : Q02553 **Date of receipt :** 18-Nov-10

Item Tested

Description : Sound Level Calibrator (EL469)

Manufacturer : ACO

Model : -- **Serial No. :** 050213

Test Conditions

Date of Test : 19-Nov-10 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification.

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 23-Nov-10

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

Calibration Certificate

Results :

1. Level

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

The above measured values are the mean of 3 measurements.
Uncertainty : ± 0.1 dB

2. Frequency

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

Uncertainty : ± 3.6 x 10^{-6}

3. Level Stability : 0.0 dB
IEC 942 Class 1 Spec. : ± 0.1 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.2 %
IEC 942 Class 1 Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

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

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

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 12888 Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982 **Date of receipt :** 25-May-11

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-14 **Serial No. :** 10303242

Test Conditions

Date of Test : 26-May-11 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1 or IEC 804 Type 1 specification after adjustment.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

Calibrated by : P. F. Wong

Approved by : Alan Chu

Date: 26-May-11

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

Calibration Certificate

Results :

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.2 dB

2. Level Stability : 0.1 dB

IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

Calibration Certificate

3. Linearity

3.1 Level Linearity

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

Uncertainty : ± 0.1 dB

3.2 Differential level linearity

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

Uncertainty : ± 0. 1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.0	- 39.4 dB, ± 1.5 dB
63 Hz	-25.9	- 26.2 dB, ± 1.5 dB
125 Hz	-15.9	- 16.1 dB, ± 1 dB
250 Hz	-8.4	- 8.6 dB, ± 1 dB
500 Hz	-3.0	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.3	+ 1.2 dB, ± 1 dB
4 kHz	+0.8	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-7.1	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB

Calibration Certificate

5. Time Averaging

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

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 004 hPa.
4. *Out of Specification

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

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 03250A

Customer : Lam Geotechnics Limited

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

Order No. : Q01282 **Date of receipt :** 14-Jun-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ONO SOKKI

Model : LA-5110 **Serial No. :** 72302293

Test Conditions

Date of Test : 21-Jun-10 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

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

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 8-Oct-10

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

Calibration Certificate

Results :

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

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

Uncertainty : ± 0.1 dB

Calibration Certificate

3.2 Differential level linearity

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

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

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

Uncertainty : ± 0.1 dB

5. Time Averaging

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

Uncertainty : ± 0.1 dB

Remarks : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 000 hPa.
4. This certificate is supersede our former certificate no. 03250.

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Appendix B
Supplementary Baseline Noise Monitoring Data

Noise Monitoring Station: M7e - IFC eastern prodium

Monitoring Time Period: Normal Weekday between 0700 and 1900 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Time	Leq	L10	L90
15/04/2011	Fine	<5	12:30	67.7	69.4	63.4
			18:00	66.9	68.4	64.4
16/04/2011	Fine	<5	12:38	66.2	68.1	62.4
			18:00	66.9	69.3	64.4
			18:30	65.8	67.5	62.6
18/04/2011	Fine	<5	12:00	68.8	69.0	63.7
			12:30	69.2	71.0	63.1
			18:00	67.1	68.7	63.2
			18:30	66.1	67.5	62.3
19/04/2011	Fine	<5	12:00	66.0	68.2	62.4
			12:30	66.6	68.3	62.3
			18:00	67.0	68.7	63.5
			18:30	66.7	68.8	63.3
20/04/2011	Fine	<5	12:00	66.2	68.0	62.5
			12:30	65.5	67.6	62.3
			18:00	66.7	68.2	64.6
			18:30	66.7	68.2	64.9
21/04/2011	Fine	<5	12:00	65.7	67.9	61.3
			12:30	65.6	67.6	62.1
			18:00	66.8	68.6	63.6
			18:30	66.1	67.4	64.1

Average	66.8	dB(A)
Max	69.2	dB(A)
Min	65.5	dB(A)

Noise Monitoring Station: M7e - IFC eastern prodium

Monitoring Time Period: Normal Weekday between 1900 and 2300 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Time	Leq	L10	L90
15/4/2011	Fine	<5	20:20	66.7	80.6	62.2
			20:25	66.4	70.2	60.6
			20:30	66.8	70.5	60.9
			20:35	67.3	71.3	62.4
			20:40	67.2	70.9	63.4
			20:45	67.3	71.2	60.5
			20:50	67.5	69.3	60.2
			20:55	66.9	68.4	63.5
			21:00	65.9	69.0	65.1
			21:05	66.4	68.3	65.2
			21:10	67.1	67.4	60.2
			21:15	65.8	67.1	59.3
			21:20	66.7	70.3	62.2
			21:25	66.3	70.9	60.6
			21:30	66.8	71.3	61.2
			21:35	67.1	71.4	62.1
			21:40	66.8	69.5	61.9
			21:45	66.7	69.9	61.5
			21:50	66.6	69.4	60.7
			21:55	66.3	71.3	61.3
			22:00	66.9	70.9	60.2
			22:05	66.9	71.2	61.1
			22:10	66.8	72.2	59.7
			21:15	66.7	71.9	59.2
			22:20	65.5	68.8	64.5
			22:25	67.8	77.6	66.9
			22:30	66.4	75.4	60.3
			22:35	66.2	71.4	58.7
			22:40	66.1	70.3	59.4
			22:45	67.0	69.9	59.9
			22:50	66.3	70.5	60.2
			22:55	66.1	70.2	59.8
			20:15	67.4	69.5	62.4
			20:20	62.7	64.5	60.5
			20:25	66.6	68.0	60.7

16/4/2011	Fine	<5	20:30	65.8	67.8	61.2
			20:35	66.0	68.1	61.0
			20:40	65.6	67.6	60.9
			20:45	63.0	64.7	61.0
			20:50	64.2	65.5	61.1
			20:55	63.5	65.4	61.2
			21:00	63.7	65.3	61.2
			21:05	64.0	65.6	61.5
			21:10	63.8	65.3	61.3
			21:15	64.3	60.8	61.2
			21:20	64.1	66.5	61.4
			21:25	63.8	66.6	61.0
			21:30	63.9	66.0	61.1
			21:35	64.1	66.2	61.2
			21:40	64.5	67.1	61.3
			21:45	64.3	65.6	62.2
			21:50	64.0	65.9	61.5
			21:55	64.7	65.8	61.7
			22:00	63.9	66.0	60.6
			22:05	64.0	66.1	60.9
			22:10	64.2	67.0	61.2
			22:15	66.9	68.9	62.5
			22:20	64.5	66.3	61.4
			22:25	67.3	68.5	62.5
			22:30	64.2	65.8	61.5
			22:35	63.9	65.8	61.1
			22:40	62.3	64.3	59.6
			22:45	63.3	64.7	60.2
			22:50	63.5	64.8	60.8
			22:55	63.2	65.0	61.1
17/4/2011	Fine	<5	21:35	64.5	65.6	62.5
			21:40	62.8	64.0	60.5
			21:45	62.1	63.4	60.5
			22:25	64.3	66.4	62.0
			22:30	62.5	64.1	60.4
			22:35	62.8	64.2	61.1
			22:40	61.6	63.2	59.5
			22:50	62.7	64.2	60.9
			22:55	61.3	62.2	59.8
			21:55	63.2	65.4	59.7
			22:00	63.7	65.6	60.8

18/4/2011	Fine	<5	22:05	65.9	68.0	60.6
			22:10	64.6	66.6	60.7
			22:15	63.2	65.0	60.5
			22:20	63.4	65.7	60.9
			22:25	63.1	65.3	58.4
			22:30	67.2	68.7	59.2
			22:35	67.3	68.1	60.1
			22:40	62.2	64.7	57.7
			22:45	62.5	64.8	58.0
			22:50	62.4	55.1	58.2
19/4/2011	Fine	<5	19:03	65.2	67.2	62.2
			19:08	67.8	68.6	63.3
			19:13	66.7	68.9	62.5
			19:18	64.4	65.7	62.4
			19:23	65.3	66.8	63.4
			19:28	65.8	67.9	63.1
			19:33	64.4	66.3	61.5
			19:38	65.6	67.6	62.7
			19:43	63.9	66.0	61.5
			19:48	63.1	65.5	60.4
			19:53	63.3	64.7	61.5
			19:58	63.7	65.5	61.3
			20:03	64.5	66.3	62.4
			20:08	64.5	66.1	62.5
			20:13	62.5	63.5	60.9
			20:18	63.3	64.4	61.8
			20:23	63.9	65.3	62.1
			20:28	63.8	65.5	61.4
			20:33	65.7	67.4	63.8
			20:38	64.8	66.4	63.2
			20:43	63.5	65.5	61.7
			20:51	67.1	67.8	66.5
			21:07	64.5	66.8	61.1
			21:13	63.7	65.4	61.4
			21:19	65.2	68.0	61.5
			21:25	64.8	67.0	61.6
			21:30	65.1	66.9	62.6
			21:36	67.5	69.6	64.9
			21:41	67.9	69.5	65.7
			21:48	67.0	68.3	65.5
			21:53	66.6	68.0	65.0

			21:59	66.4	68.2	64.3
			22:05	65.9	68.5	62.4
			22:11	64.7	67.3	61.6
			22:18	67.2	68.9	64.9
			22:24	67.4	68.9	65.4
			22:30	65.1	67.1	62.3
			22:37	63.5	65.3	61.2
			22:43	63.2	65.4	60.0
			22:49	64.1	66.4	60.8
			22:55	62.7	64.7	59.6
20/4/2011	Fine	<5	20:20	64.1	65.4	62.2
			20:25	64.2	65.7	62.3
			20:30	64.5	66.6	61.9
			20:35	65.4	67.2	62.5
			20:40	65.1	67.0	62.2
			20:45	64.6	66.7	62.1
			20:50	64.1	66.5	61.4
			20:55	64.3	65.7	62.6
			21:00	64.9	66.8	62.6
			21:05	63.9	65.7	61.8
			21:10	64.3	66.0	62.3
			21:15	63.9	64.9	62.3
			21:20	63.7	64.8	62.2
			21:25	62.3	63.7	60.4
			21:30	64.5	66.3	62.2
			21:35	63.4	65.1	61.5
			21:40	65.5	67.0	63.8
			21:45	64.4	66.3	62.6
			21:50	63.4	64.5	62.0
			21:55	65.6	68.1	63.2
			22:00	65.4	66.1	62.6
			22:05	65.4	67.0	63.1
			22:10	65.8	67.1	63.8
			21:15	66.1	67.4	64.0
			22:20	64.2	64.7	61.1
			22:25	64.9	66.6	61.3
			22:30	62.9	64.3	60.4
			22:35	63.9	65.2	62.3
			22:40	63.6	65.1	61.9
			22:45	63.2	64.3	61.5
			22:50	62.7	63.9	61.1

			22:55	62.8	64.2	61.2
21/4/2011	Fine	<5	19:21	65.8	68.5	62.2
			19:26	66.6	69.5	63.3
			19:31	64.3	65.9	62.3
			19:36	65.2	66.6	63.3
			19:41	64.3	65.7	62.0
			19:46	65.1	67.2	62.1
			19:51	66.5	69.2	62.3
			19:56	64.2	65.6	62.1
			20:01	66.3	68.6	63.7
			20:06	65.6	67.8	62.6
			20:11	65.4	66.6	63.1
			20:16	63.8	66.5	62.6
			20:21	66.0	67.2	62.9
			20:26	65.2	66.8	62.3
			20:31	64.9	66.9	61.9
			20:36	64.8	66.4	62.3
			20:41	65.1	66.7	61.9
			20:46	64.5	65.4	61.1
			20:51	64.7	66.0	62.8
			20:56	64.5	66.1	62.7
			21:01	64.7	66.8	62.1
			21:06	65.1	67.0	62.2
			21:11	65.0	67.0	62.1
			21:16	64.5	66.5	62.0
			21:21	64.1	66.5	61.4
			21:26	63.6	65.0	61.9
			21:31	63.9	65.8	61.5
			21:36	63.6	65.4	61.5
			21:41	64.1	65.8	62.1
			21:46	64.2	65.3	62.7
			21:51	61.5	62.6	60.0
			21:56	63.0	64.3	61.1
			22:01	62.6	64.4	60.3
			22:06	63.8	65.5	61.9
			22:11	64.9	66.5	63.3
			22:16	65.3	67.3	63.5
			22:21	63.2	64.3	61.9
			22:26	62.7	64.7	59.7
			22:31	61.6	63.3	59.4
			22:36	61.4	62.9	59.3

			22:41	62.1	63.6	60.4
			22:46	61.0	62.5	58.9
			22:51	61.3	63.0	59.5
			22:56	60.2	61.5	58.3

Average	65.0	dB(A)
Max	67.9	dB(A)
Min	60.2	dB(A)

Noise Monitoring Station: M7e - IFC eastern prodium

Monitoring Time Period: Normal Weekday between 2300 and 0700 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Time	Leq	L10	L90
15/04/2011	Fine	<5	23:00	64.4	68.1	63.4
			23:05	65.4	68.4	63.6
			23:10	65.8	68.6	64.2
			23:15	65.5	68.9	63.8
			23:20	65.4	68.5	63.8
			23:25	66.0	69.1	64.6
			23:30	65.2	68.3	64.6
			23:35	65.8	69.6	64.7
			23:40	64.9	68.0	64.0
			23:45	65.3	68.7	64.3
			23:50	65.5	68.6	63.9
			23:55	65.0	68.3	63.8
16/04/2011	Fine	<5	23:00	62.9	64.9	59.6
			23:05	62.5	64.7	60.2
			23:10	62.8	64.5	60.1
			23:15	62.6	64.2	60.3
			23:20	63.7	66.2	59.8
			23:25	62.6	64.8	60.1
			23:30	62.5	63.9	60.5
			23:35	63.2	65.1	60.7
			23:40	61.9	63.2	58.9
			23:45	60.8	62.2	58.9
			23:50	61.3	62.9	59.3
			23:55	61.4	62.4	60.0
17/04/2011	Fine	<5	23:00	62.8	64.4	59.8
			23:05	61.4	62.7	59.7
			23:10	61.2	62.5	59.7
18/04/2011	Fine	<5	00:47	62.5	63.8	60.9
			00:54	62.0	63.6	60.1
			00:59	61.9	63.1	60.1
			01:04	61.3	62.5	59.5
			01:09	61.3	62.6	59.3
			01:14	61.1	62.6	59.1
18/04/2011	Fine	<5	23:02	63.0	65.1	59.3
			23:07	63.3	64.7	59.5
			23:12	63.7	66.1	60.1
			23:17	62.2	65.2	57.7
			23:22	64.2	66.1	59.5
			23:27	62.2	64.4	59.2

18/04/2011	Fine	<5	23:32	62.3	64.7	58.2
			23:37	62.5	64.0	59.8
			23:42	61.2	63.8	57.5
			23:47	61.0	62.8	56.4
			23:52	63.8	65.5	61.1
			23:57	60.9	63.2	56.6
19/04/2011	Fine	<5	23:01	63.7	66.0	59.8
			23:06	63.6	65.7	59.6
			23:11	63.0	64.4	61.3
			23:16	64.3	66.1	61.9
			23:21	62.8	64.6	60.7
			23:26	63.1	64.8	61.1
			23:31	64.5	65.5	62.9
			23:36	62.8	63.9	61.3
			23:41	62.7	64.0	60.8
			23:46	63.3	65.1	61.0
			23:51	63.1	64.8	61.2
			23:56	63.7	65.2	62.0
20/04/2011	Fine	<5	23:00	61.1	63.2	58.1
			23:05	62.7	64.4	60.4
			23:10	61.8	63.3	59.7
			23:15	61.9	63.4	60.2
			23:20	61.3	62.7	59.1
			23:25	61.6	63.3	59.8
			23:30	61.3	62.6	59.4
			23:35	62.8	64.0	61.2
			23:40	61.8	63.3	60.2
			23:45	62.1	63.5	60.3
			23:50	63.3	64.6	61.3
			23:55	62.9	63.8	61.5
21/04/2011	Fine	<5	23:09	65.1	67.5	61.7
			23:14	67.4	70.0	63.5
			23:19	64.2	66.5	61.6
			23:24	64.3	65.8	62.2
			23:29	63.5	65.0	60.2
			23:34	62.4	64.7	58.7
			23:39	63.5	65.4	59.3
			23:44	62.5	63.9	60.7
			23:49	62.2	63.5	60.2
			23:54	63.1	64.0	61.7
			23:59	63.2	64.4	61.4

Average	63.3	dB(A)
Max	67.4	dB(A)
Min	60.8	dB(A)

Noise Monitoring Station: M7w - IFC western prodium

Monitoring Time Period: Normal Weekday between 0700 and 1900 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Time	Leq	L10	L90
15/04/2011	Fine	<5	12:00	71.0	71.5	69.8
			18:33	66.1	67.1	64.7
16/04/2011	Fine	<5	12:00	68.1	70.1	67.9
			18:00	68.6	69.9	68.0
			18:30	69.4	71.6	67.9
18/04/2011	Fine	<5	18:00	70.4	72.2	67.1
			18:30	70.0	71.9	66.6
19/04/2011	Fine	<5	12:00	69.1	70.1	67.9
			12:30	69.0	69.9	68.0
			18:00	70.2	72.5	67.9
			18:30	69.4	70.6	67.2
20/04/2011	Fine	<5	12:00	68.4	70.5	66.2
			12:30	69.1	70.1	67.8
			18:00	69.7	71.2	67.6
			18:30	69.9	70.2	66.9
21/04/2011	Fine	<5	12:00	67.7	68.6	66.6
			12:30	67.4	68.3	66.1
			18:00	70.6	71.5	69.3
			18:30	71.2	73.1	69.1

Average	69.3	dB(A)
Max	71.2	dB(A)
Min	66.1	dB(A)

Noise Monitoring Station: M7w - IFC western prodium

Monitoring Time Period: Normal Weekday between 1900 and 2300 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Time	Leq	L10	L90
15/4/2011	Fine	<5	19:27	67.1	67.3	64.5
			19:32	68.5	69.6	65.0
			19:37	66.9	67.1	64.3
			19:42	66.3	66.7	64.0
			19:47	66.3	67.1	64.1
			19:52	66.0	66.9	63.9
			19:57	66.3	66.6	64.2
			20:02	68.0	69.5	64.6
			20:07	67.7	69.1	64.9
			20:12	66.9	67.4	64.0
			20:17	66.1	67.9	63.9
			20:22	66.1	68.0	63.8
			20:27	67.6	69.6	63.9
			20:32	66.6	69.6	63.9
			20:37	66.5	67.1	63.5
			20:42	65.6	66.4	63.4
			20:47	65.7	65.8	63.1
			20:52	66.0	68.2	63.3
			20:57	65.9	66.5	63.4
			21:02	65.6	67.6	63.4
			21:07	65.4	67.7	63.2
			21:12	65.7	67.9	63.3
			21:17	65.5	67.8	63.3
			21:22	67.6	71.7	63.7
			21:27	65.6	68.0	63.0
			21:32	67.2	68.5	65.1
			21:37	67.2	68.4	64.3
			21:42	66.2	67.6	64.4
			21:47	66.2	67.6	64.0
			21:52	66.6	68.1	64.8
			21:57	67.4	68.5	65.3
			22:02	66.0	67.2	63.5
			22:07	68.6	70.4	65.1
			22:12	67.2	69.6	64.1
			22:17	67.5	69.1	64.7
			22:22	67.8	69.6	65.2
			22:27	66.0	67.0	63.9
			22:32	66.6	67.7	64.8
			22:37	66.2	67.4	64.1
			22:42	68.0	69.9	65.7
			22:47	66.5	67.7	64.7
			22:52	65.7	66.8	63.8

16/4/2011	Fine	<5	19:00	63.7	65.5	60.4
			19:05	66.4	68.3	64.5
			19:10	65.7	67.7	64.0
			19:15	65.3	67.1	63.6
			19:20	65.1	66.7	63.5
			19:25	64.9	66.4	63.2
			19:30	65.2	66.9	63.5
			19:35	65.4	67.0	63.7
			19:40	65.4	67.1	63.9
			19:45	65.5	67.2	64.2
			19:50	65.1	66.8	63.7
			19:55	64.9	66.3	63.4
			20:00	65.2	67.2	64.0
			20:05	65.0	66.5	63.2
			20:10	65.1	66.5	63.7
			20:15	65.3	67.0	63.4
			20:20	65.1	66.8	63.6
			20:25	67.5	68.7	63.7
			20:30	64.7	65.8	63.7
17/4/2011	Fine	<5	21:35	67.1	68.4	65.1
			21:40	67.5	68.8	64.7
			21:45	66.2	67.6	64.4
			22:25	66.6	68.0	64.4
			22:30	67.2	68.7	65.4
			22:35	65.9	67.1	63.8
			22:40	66.1	67.3	63.6
			22:50	66.5	68.3	63.0
			22:55	66.6	67.7	64.7
18/4/2011	Fine	<5	19:27	65.8	67.1	62.3
			19:32	66.8	67.8	63.7
			19:37	66.0	67.4	63.0
			19:42	66.6	67.9	64.3
			19:47	67.1	68.9	65.0
			19:52	67.1	68.4	64.7
			19:57	65.7	67.9	61.8
			20:02	65.7	67.8	63.1
			20:07	65.8	67.7	63.2
			20:12	66.6	68.5	62.9
			20:17	66.1	67.0	63.4
			20:22	67.3	68.5	65.2
			20:27	66.6	67.6	64.7
			20:32	67.1	69.8	62.6
			20:37	65.9	67.2	62.4
			20:42	66.9	67.9	63.7
			20:47	66.7	68.1	63.7
			20:52	65.5	66.8	63.3

19/4/2011	Fine	<5	19:27	68.2	69.3	67.5
			19:32	67.9	68.3	67.4
			19:42	67.8	68.2	67.5
			19:56	68.1	68.7	67.6
			19:56	68.1	68.6	67.4
			20:08	67.8	68.4	67.1
			20:16	67.4	67.8	67.0
			20:23	68.8	69.6	68.0
			20:29	68.7	69.2	68.1
			20:36	68.7	69.3	68.0
			20:43	68.9	69.5	68.0
20/4/2011	Fine	<5	21:50	68.0	69.5	64.6
			21:55	67.0	69.2	64.5
			22:00	65.7	66.7	64.1
			22:05	65.9	67.2	64.3
			22:10	66.1	67.5	64.2
			22:15	65.6	67.2	63.8
			22:20	66.7	67.9	65.1
			22:25	66.4	67.5	65.3
			22:30	66.6	67.6	65.4
			22:35	65.7	67.0	63.7
			22:40	66.4	67.0	64.1
			22:45	65.0	68.4	63.9
			22:50	64.2	66.3	61.7
			22:55	64.8	65.9	63.1
21/4/2011	Fine	<5	19:27	70.8	71.8	69.7
			19:32	70.8	71.8	69.9
			19:37	71.3	72.3	70.4
			19:42	71.1	71.8	70.5
			19:47	71.1	71.5	70.7
			19:52	71.5	72.4	70.6
			20:05	71.1	71.7	70.5
			20:10	71.2	71.9	70.4
			20:15	70.9	71.4	70.4
			20:20	71.2	72.4	70.4
			20:25	71.3	72.0	70.7
			20:30	71.0	71.4	70.7
			20:45	70.9	71.3	70.5
			20:50	70.8	71.4	70.3
			20:55	70.8	71.2	70.4
			21:00	70.6	71.2	70.0
			21:05	70.8	71.5	70.2
			21:10	70.5	71.0	70.2
			21:15	71.2	72.1	70.5
			21:20	70.8	71.4	70.2
			21:25	71.1	72.0	70.4

			21:30	71.0	71.8	70.1
			21:35	70.4	70.8	69.9
			21:40	70.4	71.0	70.0
			21:50	70.4	70.7	69.9
			21:55	69.8	70.6	68.8
			22:00	69.8	70.5	69.0
			22:05	69.7	70.4	69.1
			22:10	69.7	70.4	69.1
			22:15	70.1	70.9	69.4
			22:25	69.8	70.3	69.4
			22:30	70.0	70.7	69.4
			22:35	69.6	70.3	69.2
			22:40	70.2	70.2	69.2
			22:45	69.3	70.0	68.5
			22:50	69.5	70.0	68.8

Average	68.0	dB(A)
Max	71.5	dB(A)
Min	63.7	dB(A)

Noise Monitoring Station: M7w - IFC western prodium

Monitoring Time Period: Normal Weekday between 2300 and 0700 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Time	Leq	L10	L90
15/04/2011	Fine	<5	23:00	64.3	65.4	62.1
			23:05	64.0	65.6	61.0
			23:10	63.9	65.0	62.0
			23:15	64.2	65.4	61.9
			23:20	63.5	64.8	61.9
			23:25	63.1	65.2	60.8
			23:30	62.9	64.4	60.8
			23:35	64.5	65.9	62.8
			23:40	63.0	64.6	60.9
			23:45	63.6	65.1	61.9
			23:50	63.4	64.3	61.9
			23:55	63.4	64.5	60.9
16/04/2011	Fine	<5	23:00	64.2	65.7	61.6
			23:05	64.8	66.4	61.8
			23:10	64.2	65.5	62.5
			23:15	62.6	63.9	61.2
			23:20	63.1	64.4	61.5
			23:25	61.7	63.3	59.7
			23:30	62.8	64.0	61.1
			23:35	62.5	63.7	60.7
			23:40	61.9	63.1	59.8
			23:45	63.3	64.8	61.4
			23:50	61.4	63.2	58.6
			23:55	62.6	64.1	60.5
17/04/2011	Fine	<5	23:00	61.7	63.2	59.8
			23:05	63.6	65.7	60.9
			23:10	62.3	64.1	60.0
18/04/2011	Fine	<5	00:47	61.4	63.4	59.1
			00:54	59.7	61.2	58.0
			00:59	61.7	63.3	59.7
			01:04	61.6	63.0	59.7
			01:09	62.6	63.7	60.7
			01:14	62.2	63.4	60.0
18/04/2011	Fine	<5	23:02	63.0	64.3	61.4
			23:07	64.0	66.1	61.7
			23:12	63.2	64.8	61.1
			23:17	63.5	65.0	61.8
			23:22	63.0	64.6	60.9
			23:27	63.5	65.0	61.8
			23:32	63.0	64.0	61.6
			23:37	64.2	65.3	61.6
			23:42	63.6	65.2	61.1

			23:47	64.6	66.1	61.5
			23:52	64.9	66.2	63.2
			23:57	62.0	63.4	60.6
19/04/2011	Fine	<5	23:01	63.6	65.0	62.1
			23:06	62.5	64.1	60.5
			23:11	63.0	64.2	61.3
			23:16	61.9	63.1	60.0
			23:21	62.7	64.0	60.7
			23:26	61.1	62.6	59.2
			23:31	62.4	64.1	59.5
			23:36	61.3	62.8	59.2
			23:41	61.6	63.0	59.7
			23:46	61.1	63.3	58.4
			23:51	61.0	62.8	58.8
			23:56	63.5	65.5	61.1
20/04/2011	Fine	<5	23:00	62.4	63.9	60.7
			23:05	63.2	65.4	60.0
			23:10	61.3	62.9	59.4
			23:15	61.8	63.5	59.7
			23:20	60.7	62.2	58.9
			23:25	62.7	64.5	59.2
			23:30	61.5	63.3	59.2
			23:35	60.4	61.6	58.4
			23:40	61.5	63.3	59.0
			23:45	61.6	63.5	59.6
			23:50	61.9	63.4	60.1
			23:55	60.2	61.6	58.4
21/04/2011	Fine	<5	23:09	61.7	63.2	59.3
			23:14	61.6	63.4	59.5
			23:19	62.4	64.0	60.3
			23:24	60.4	61.9	58.6
			23:29	61.6	62.9	59.9
			23:34	63.4	66.3	59.5
			23:39	61.4	62.7	58.6
			23:44	61.4	62.9	59.6
			23:49	62.9	64.2	60.9
			23:54	63.8	64.6	62.4
			23:59	63.9	65.1	62.1

Average	62.7	dB(A)
Max	64.9	dB(A)
Min	59.7	dB(A)

Noise Monitoring Station: M1a - Harbour Road Sport Centre

Monitoring Time Period: Normal Weekday between 0700 and 1900 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
11/04/2011	Fine	<5	12:00	72.6	75.5	67.8
			12:30	72.8	75.3	67.7
12/04/2011	Fine	<5	12:00	70.8	75.2	68.2
			12:30	71.4	74.6	68.6
13/04/2011	Fine	<5	12:00	73.6	76.1	69.4
			12:30	73.7	76.3	69.3
14/04/2011	Fine	<5	12:00	71.1	76.3	69.8
			12:30	70.8	78.3	69.2
15/04/2011	Fine	<5	12:00	73.3	78.3	70
			12:30	73.6	78.6	69.8
16/04/2011	Fine	<5	12:00	71.1	75.4	68.4
			12:30	70.7	74.7	66.3

Average	72.2	dB(A)
Max	73.7	dB(A)
Min	70.7	dB(A)

Noise Monitoring Station: M1a - Harbour Road Sport Centre

Monitoring Time Period: Normal Weekday between 1900 and 2300 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
10/04/2011	Fine	<5	12:09	71.4	74.3	69.9
			12:14	71.7	75.7	70.2
			12:19	70.9	74.1	70.1
			12:24	70.7	73.9	68.7
			12:29	71	73.9	69.3
			12:34	71.9	74.3	69.3
			12:39	73	75.8	67.7
			12:44	72.8	75.6	68.7
			12:49	71.7	73.3	67.2
			12:54	72.9	75.9	68.9
			12:59	73.4	76.2	69.4
			13:04	73.8	76.4	70.1
			13:09	71.8	74.7	70.1
11/04/2011	Fine	<5	19:00	71.9	75.6	69.7
			19:05	71.6	73.4	70.9
			19:10	72.3	73.9	70.2
			19:15	72	73.7	69.9
			19:20	71.3	72.9	70.2
			19:40	71.6	73	69.7
			19:45	70.9	73.7	68.7
			19:50	71.1	74.7	69.9
			19:55	70.8	72.4	70.1
12/04/2011	Fine	<5	19:45	71.2	74.4	65.7
			20:05	70.7	73.4	66.8
			20:25	70.4	74.6	66.3
			20:50	70.7	72.5	66.7
			21:05	70.4	73.9	65.7
			21:35	68.4	71.5	63.9
13/04/2011	Fine	<5	19:05	71.2	75.4	69.7
			19:10	71.6	74.9	69.9
			19:30	71.4	74.5	69.9
			20:00	70.3	74.5	67.8
			20:05	70.5	75	67.6
			20:30	69.8	72	64.7
			21:05	69.4	72	64.6
			21:25	69.9	72.9	64.9
			19:00	70.2	72.3	65.9
			19:05	71.5	74.4	67.4
			19:10	70	72.7	65.5
			19:15	70	72.7	65.5

14/04/2011	Fine	<5	19:20	71.7	71.7	68.3
			19:25	71.6	73.7	67.1
			19:30	72.8	77.3	69.6
			19:35	71.5	76.5	68.6
			19:40	72	76.4	69.3
			19:45	71.4	75.1	68.6
			19:50	71.9	76.7	67.8
15/04/2011	Fine	<5	19:00	71.7	78.1	71
			19:05	72	78.9	69.9
			19:10	71.4	79.6	70.7
			19:15	71.2	75.2	68.3
			19:20	71.5	75.8	68.5
			19:25	71.4	74.9	68.1
16/04/2011	Fine	<5	19:00	70.9	72.6	68.7
			19:05	70.4	74	68.6
			19:10	71.8	74.6	68.3
			19:15	72	75.2	66.5
			19:20	71.7	75	64.9
			19:25	70.4	72.5	63.4
22/04/2011	Fine	<5	12:00	70.9	72.7	69
			12:05	70.9	73	68.8
			12:10	70.8	73.1	68.9
			12:15	70.5	72.8	68.2
			12:20	70.7	73.5	69.1
			12:25	70.3	73.1	68.6
23/04/2011	Fine	<5	12:20	71.3	73.6	69.9
			12:25	71	73.9	69.7
			12:30	71.1	74.0	69.8
			12:35	71.6	73.7	69.0
			12:40	70.9	74.4	70.0
			12:45	71.2	74.0	69.4
24/04/2011	Fine	<5	12:20	71.6	71.8	68.2
			12:25	71.6	72.1	68.0
			12:30	71.6	72.2	68.1
			12:35	71.7	71.9	67.4
			12:40	71.5	72.6	68.3
			12:45	71.6	71.9	68.0
25/04/2011	Fine	<5	12:15	70.7	72.1	68.4
			12:20	70.4	72.4	68.2
			12:25	70.5	72.5	68.3
			12:30	71.0	72.2	67.6
			12:35	70.3	72.9	68.5
			12:40	70.6	72.5	68.0
			19:00	71.5	72.9	69.2
			19:05	71.2	73.2	69.0

26/04/2011	Fine	<5	19:10	71.3	73.3	69.1
			19:15	71.8	73.0	68.3
			19:20	71.1	73.7	69.3
			19:25	71.4	73.3	68.7
27/04/2011	Fine	<5	19:00	71.3	72.6	69.0
			19:05	71.0	72.9	68.8
			19:10	71.1	73.0	68.9
			19:15	71.6	72.7	68.2
			19:20	70.9	73.4	69.1
			19:30	71.2	73.0	68.6
28/04/2011	Fine	<5	19:00	71.8	73.2	69.5
			19:05	71.5	73.5	69.3
			19:10	71.6	73.6	69.4
			19:15	72.1	73.3	68.7
			19:20	71.4	74.0	69.6
			19:25	71.7	73.6	69.1

Average	71.3	dB(A)
Max	73.8	dB(A)
Min	68.4	dB(A)

Noise Monitoring Station: M2b - Noon-day gun area

Monitoring Time Period: Normal Weekday between 0700 and 1900 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
25/05/2011	Fine	<5	12:00	66.2	67.8	64.2
			12:30	66.2	67.7	64.2
26/05/2011	Fine	<5	12:00	68.5	72.8	65.0
			12:30	67.8	68.9	65.3
27/05/2011	Fine	<5	12:00	68.5	72.1	65.2
			12:30	67.0	67.9	63.9
28/05/2011	Fine	<5	12:00	66.4	68.0	64.4
			12:30	66.4	67.9	64.4
30/05/2011	Fine	<5	12:00	66.3	68.7	63.9
			12:30	67.8	68.6	65.4
31/05/2011	Fine	<5	12:00	67.6	68.7	65.1
			12:30	67.3	68.9	64.9
01/06/2011	Fine	<5	12:00	68.9	73.2	65.4
			12:30	67.1	68.6	65.0
02/06/2011	Fine	<5	12:00	68.7	72.3	65.4
			12:30	67.2	68.1	64.1
03/06/2011	Fine	<5	12:00	66.6	69.3	64.4
			12:30	66.5	68.9	64.1
04/06/2011	Fine	<5	12:00	68.0	68.8	65.6
			12:30	67.8	68.9	65.3
07/06/2011	Fine	<5	12:00	68.0	69.6	65.6
			12:30	67.5	69.1	65.0
08/06/2011	Fine	<5	12:00	67.6	69.3	65.1
			12:30	67.1	68.6	65.0

Average	67.6	dB(A)
Max	68.9	dB(A)
Min	66.3	dB(A)

Noise Monitoring Station: M2b - Noon-day gun area

Monitoring Time Period: Normal Weekday between 1900 and 2300 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
25/05/2011	Fine	<5	19:00	66.0	68.6	64.2
			19:05	66.6	68.8	64.9
			19:10	66.1	67.6	64.2
			19:15	65.7	67.2	64.4
			19:20	66.0	67.6	64.6
			19:25	66.9	67.8	64.4
			19:30	65.7	66.3	64.2
			19:35	65.7	68.4	64.4
			19:40	66.0	67.3	64.2
			19:45	64.9	66.2	64.3
			19:50	65.8	67.8	64.3
			19:55	65.6	68.6	64.9
			20:00	66.4	68.5	64.1
			20:05	65.8	66.6	63.8
			20:10	66.1	67.6	63.8
			20:15	66.8	68.1	64.8
			20:20	65.4	67.8	63.8
			20:25	66.1	67.4	64.6
			20:30	65.3	67.1	64.6
			20:35	66.1	67.8	65.2
			20:40	66.1	67.8	64.7
			20:45	66.1	67.1	64.5
			20:50	65.9	67.0	63.6
			20:55	65.1	67.4	64.3
			21:00	66.2	67.6	64.6
			21:05	66.2	67.8	64.4
			21:10	66.1	68.5	64.2
			21:15	66.4	67.9	64.2
			21:20	66.7	68.4	65.1
			21:25	66.6	67.5	63.6
			21:30	66.3	67.8	64.5
			21:35	65.8	66.4	64.3
			21:40	65.7	68.0	64.3
			21:45	66.7	67.9	63.7
			21:50	64.9	67.4	64.1
			21:55	65.3	67.0	64.4
			22:00	65.6	67.3	65.1
			22:05	66.2	67.9	64.1
			22:10	65.5	67.8	65.0
			22:15	64.7	67.8	64.5

			22:20	65.6	67.2	64.4
			22:25	65.9	67.0	64.3
			22:30	66.7	67.5	63.8
			22:35	66.2	67.4	64.7
			22:40	66.4	68.3	64.2
			22:45	66.1	66.7	64.0
			22:50	66.2	67.8	64.8
			22:55	65.9	68.3	64.2
26/05/2011	Fine	<5	19:00	65.8	67.4	64.4
			19:05	65.4	68.1	64.0
			19:10	65.6	67.5	63.8
			19:15	65.5	67.8	64.9
			19:20	65.2	67.6	64.3
			19:25	66.3	67.6	64.8
			19:30	65.6	67.0	64.2
			19:35	65.0	67.2	63.7
			19:40	66.1	66.9	64.1
			19:45	65.8	67.4	64.1
			19:50	66.7	68.2	63.9
			19:55	65.7	67.4	63.7
			20:00	66.7	67.4	63.9
			20:05	65.8	66.9	64.5
			20:10	66.5	67.8	63.8
			20:15	66.6	67.6	63.8
			20:20	65.0	66.6	63.8
			20:25	65.3	67.5	63.7
			20:30	65.9	67.5	63.7
			20:35	66.2	67.8	64.4
			20:40	65.8	66.8	64.3
			20:45	66.1	67.5	65.0
			20:50	65.8	67.3	64.5
			20:55	66.1	68.2	64.7
			21:00	64.7	67.2	64.1
			21:05	65.5	66.8	64.0
			21:10	66.2	68.2	65.0
			21:15	65.2	67.7	64.4
			21:20	65.5	67.0	63.6
			21:25	64.8	67.5	64.6
			21:30	67.0	68.4	64.4
			21:35	66.1	67.6	64.1
			21:40	66.2	68.0	64.5
			21:45	64.9	67.8	64.6
			21:50	65.2	66.6	63.9
			21:55	66.2	68.5	64.9
			22:00	65.9	67.3	64.0
			22:05	65.2	67.2	64.6

			22:10	66.2	67.6	64.7
			22:15	65.7	66.4	63.5
			22:20	65.9	67.7	64.5
			22:25	65.8	67.0	64.2
			22:30	65.7	68.2	63.9
			22:35	66.6	66.7	63.5
			22:40	65.1	68.2	64.4
			22:45	65.1	67.8	64.3
			22:50	66.0	68.5	65.0
			22:55	66.9	68.5	64.6
27/05/2011	Fine	<5	19:00	65.9	67.4	64.2
			19:05	66.0	67.1	63.6
			19:10	65.7	67.5	64.1
			19:15	66.7	68.6	64.6
			19:20	66.6	67.8	64.4
			19:25	66.2	67.4	64.1
			19:30	66.3	66.8	64.1
			19:35	65.1	67.6	64.7
			19:40	65.8	67.1	64.6
			19:45	65.9	66.8	64.3
			19:50	65.6	68.2	64.4
			19:55	65.5	67.7	64.1
			20:00	65.1	67.2	64.0
			20:05	66.1	68.3	64.2
			20:10	65.7	67.5	64.4
			20:15	65.2	67.6	64.6
			20:20	65.6	66.9	64.3
			20:25	65.5	67.3	64.6
			20:30	65.3	68.2	64.3
			20:35	66.6	68.2	64.5
			20:40	65.6	67.8	64.5
			20:45	65.7	67.0	64.0
			20:50	65.1	66.5	63.6
			20:55	66.1	67.0	64.4
			21:00	66.3	67.8	65.0
			21:05	65.4	67.6	64.2
			21:10	65.6	67.3	63.7
			21:15	66.4	67.8	64.1
			21:20	66.2	67.9	64.3
			21:25	65.1	66.5	63.7
			21:30	65.7	67.8	64.3
			21:35	66.6	67.6	64.5
			21:40	66.3	67.7	64.7
			21:45	66.2	67.8	65.1
			21:50	66.2	68.2	64.1
			21:55	65.5	67.7	65.1

			22:00	65.5	66.7	63.9
			22:05	66.2	67.1	64.3
			22:10	65.6	67.5	64.6
			22:15	65.5	67.0	64.4
			22:20	65.0	67.6	64.7
			22:25	66.1	67.5	63.9
			22:30	65.6	67.9	64.7
			22:35	66.3	67.8	64.6
			22:40	66.5	68.2	64.3
			22:45	66.3	67.9	63.6
			22:50	66.0	66.8	63.8
			22:55	65.4	67.0	64.1
28/05/2011	Fine	<5	19:00	65.4	67.1	64.1
			19:05	65.8	67.1	64.7
			19:10	65.7	67.3	64.6
			19:15	66.2	67.9	63.9
			19:20	65.2	66.8	64.2
			19:25	66.0	67.9	64.6
			19:30	66.1	68.2	64.2
			19:35	66.6	68.5	64.8
			19:40	66.3	68.3	64.6
			19:45	65.7	67.8	64.9
			19:50	66.1	67.6	64.1
			19:55	66.2	68.0	64.3
			20:00	66.0	67.8	64.6
			20:05	64.9	66.8	64.1
			20:10	65.0	66.6	63.8
			20:15	65.3	68.0	64.6
			20:20	65.3	67.8	64.3
			20:25	66.5	67.2	64.1
			20:30	66.3	67.2	64.4
			20:35	65.8	67.4	63.9
			20:40	65.9	68.3	64.4
			20:45	66.0	67.2	64.2
			20:50	64.7	66.8	64.2
			20:55	65.7	66.9	64.3
			21:00	65.8	67.4	63.8
			21:05	66.2	67.6	64.6
			21:10	66.7	67.0	63.6
			21:15	65.1	66.8	64.1
			21:20	65.7	66.5	64.0
			21:25	66.2	68.3	64.7
			21:30	65.9	66.6	64.4
			21:35	65.5	67.5	63.9
			21:40	65.5	68.0	64.3
			21:45	65.3	68.0	65.2

			21:50	66.6	67.9	64.3
			21:55	66.6	67.2	64.5
			22:00	65.2	66.3	63.9
			22:05	65.8	67.5	64.8
			22:10	65.1	67.7	64.4
			22:15	66.3	68.0	63.9
			22:20	65.2	67.0	63.9
			22:25	66.0	67.9	64.3
			22:30	64.9	67.4	64.3
			22:35	66.3	67.6	63.5
			22:40	66.0	67.7	64.3
			22:45	66.5	68.1	64.4
			22:50	65.2	66.5	63.5
			22:55	65.9	68.2	63.8
29/05/2011	Fine	<5	19:00	66.5	68.4	64.3
			19:05	66.0	68.1	65.1
			19:10	66.0	68.8	65.2
			19:15	65.2	67.4	64.5
			19:20	65.3	66.8	63.9
			19:25	65.6	67.5	63.9
			19:30	66.2	68.1	64.9
			19:35	66.0	68.4	65.2
			19:40	65.3	67.8	64.1
			19:45	65.0	66.5	63.7
			19:50	65.2	67.2	63.8
			19:55	65.1	67.5	64.2
			20:00	65.5	67.6	64.6
			20:05	66.3	67.3	63.7
			20:10	66.0	67.5	64.4
			20:15	65.5	67.3	64.2
			20:20	65.2	67.6	64.4
			20:25	66.0	67.2	64.0
			20:30	65.8	68.0	64.3
			20:35	66.5	68.4	65.0
			20:40	66.0	67.4	64.1
			20:45	65.9	68.1	64.3
			20:50	65.2	67.8	64.7
			20:55	65.8	68.2	64.5
			21:00	65.9	67.5	63.7
			21:05	65.6	67.2	63.8
			21:10	65.6	67.3	65.0
			21:15	65.9	67.8	64.2
			21:20	65.4	67.8	65.0
			21:25	65.7	67.7	64.9
			21:30	65.7	66.8	64.2
			21:35	66.8	67.4	64.9

			21:40	65.6	66.4	63.6
			21:45	65.9	68.0	64.4
			21:50	65.7	67.2	64.7
			21:55	65.1	66.8	63.9
			22:00	66.3	67.5	64.0
			22:05	66.9	67.9	64.4
			22:10	65.0	66.7	64.3
			22:15	66.5	68.3	64.7
			22:20	66.1	67.2	64.6
			22:25	66.1	67.5	63.5
			22:30	65.5	67.3	64.7
			22:35	65.2	67.4	64.2
			22:40	64.9	68.0	64.8
			22:45	65.6	67.4	64.4
			22:50	65.6	67.4	63.9
			22:55	65.5	67.8	64.5
30/05/2011	Fine	<5	19:00	65.7	68.1	65.0
			19:05	65.8	68.4	64.6
			19:10	65.9	68.4	64.1
			19:15	64.9	67.3	63.8
			19:20	66.6	68.0	64.4
			19:25	65.3	67.4	64.1
			19:30	65.8	68.2	64.3
			19:35	65.8	67.0	64.7
			19:40	65.2	66.7	63.9
			19:45	65.7	67.3	64.5
			19:50	64.8	66.6	64.2
			19:55	66.2	67.6	64.5
			20:00	65.8	67.8	63.7
			20:05	66.4	68.1	64.3
			20:10	66.0	67.4	63.7
			20:15	65.3	67.7	64.4
			20:20	66.0	68.1	64.2
			20:25	65.3	68.0	64.8
			20:30	65.7	68.1	64.6
			20:35	65.8	66.9	64.2
			20:40	66.4	67.8	64.7
			20:45	66.1	68.3	64.4
			20:50	65.1	67.5	64.1
			20:55	66.0	68.4	65.1
			21:00	66.0	67.6	64.7
			21:05	66.6	67.9	64.5
			21:10	65.6	68.0	65.0
			21:15	66.6	67.7	63.7
			21:20	65.7	67.3	63.5
			21:25	64.9	67.7	64.3

			21:30	65.7	67.7	65.1
			21:35	65.8	68.2	64.9
			21:40	66.2	68.1	64.3
			21:45	65.9	67.4	64.4
			21:50	65.3	67.5	64.2
			21:55	64.8	66.5	64.2
			22:00	65.4	67.2	64.3
			22:05	65.6	67.0	63.9
			22:10	66.2	68.1	64.2
			22:15	65.7	67.9	64.8
			22:20	65.8	67.8	63.8
			22:25	65.2	67.9	65.2
			22:30	65.5	67.4	64.1
			22:35	65.0	67.5	64.4
			22:40	66.1	66.2	64.2
			22:45	66.6	67.8	64.1
			22:50	65.5	68.3	65.3
			22:55	65.9	66.8	64.5
31/05/2011	Fine	<5	19:00	66.0	67.7	63.5
			19:05	65.7	67.5	63.9
			19:10	66.2	68.6	64.6
			19:15	65.4	66.5	64.2
			19:20	65.5	68.0	64.3
			19:25	66.3	67.6	64.1
			19:30	66.0	68.1	64.3
			19:35	65.8	66.3	63.6
			19:40	65.9	67.4	64.4
			19:45	66.8	67.7	64.2
			19:50	66.3	68.7	65.1
			19:55	66.1	67.3	64.2
			20:00	66.0	67.9	64.7
			20:05	65.1	67.0	64.1
			20:10	65.8	67.7	64.3
			20:15	65.1	66.9	64.3
			20:20	65.9	67.7	64.1
			20:25	65.5	67.7	64.0
			20:30	65.7	67.6	64.3
			20:35	65.3	67.4	64.2
			20:40	65.4	67.8	64.2
			20:45	66.6	68.4	64.2
			20:50	65.2	67.4	65.1
			20:55	65.2	67.3	64.4
			21:00	66.0	68.0	64.1
			21:05	65.3	67.3	64.4
			21:10	65.6	67.4	64.7
			21:15	66.1	67.9	64.5

			21:20	65.4	68.1	64.2
			21:25	65.7	67.4	65.0
			21:30	65.9	67.3	64.3
			21:35	65.4	67.9	64.5
			21:40	65.4	66.9	64.0
			21:45	65.4	67.4	63.8
			21:50	65.7	67.8	64.2
			21:55	65.4	68.0	64.2
			22:00	65.5	67.5	65.2
			22:05	65.9	66.9	64.2
			22:10	66.1	67.9	64.8
			22:15	66.2	67.7	64.7
			22:20	65.7	66.2	64.0
			22:25	66.0	68.0	64.0
			22:30	65.6	67.0	64.4
			22:35	65.2	67.7	64.0
			22:40	65.8	66.8	64.4
			22:45	65.0	67.3	64.6
			22:50	65.8	67.5	63.6
			22:55	64.6	67.3	64.5
01/06/2011	Fine	<5	19:00	64.9	65.8	64.2
			19:05	65.1	66.6	65.0
			19:10	65.1	65.8	64.4
			19:15	64.7	66.4	64.6
			19:20	64.7	65.6	64.2
			19:25	64.4	65.3	63.7
			19:30	64.4	65.7	63.9
			19:35	64.9	65.7	64.3
			19:40	64.9	66.1	64.0
			19:45	65.3	67.0	65.1
			19:50	65.1	66.6	64.4
			19:55	65.4	65.6	65.3
			20:00	65.7	66.7	64.8
			20:05	65.8	66.2	64.9
			20:10	64.9	65.8	64.2
			20:15	65.3	66.2	65.2
			20:20	65.1	66.1	64.6
			20:25	64.7	65.5	64.2
			20:30	65.4	67.1	65.0
			20:35	64.6	65.0	64.2
			20:40	65.7	66.3	65.2
			20:45	65.3	66.4	64.4
			20:50	64.9	66.7	64.2
			20:55	64.1	65.5	63.4
			21:00	65.9	67.3	65.5
			21:05	65.8	66.3	65.2

			21:10	65.9	66.2	65.3
			21:15	65.1	66.3	64.4
			21:20	65.0	66.1	64.1
			21:25	64.7	65.7	63.9
			21:30	64.7	64.8	63.7
			21:35	64.3	66.2	63.3
			21:40	65.4	66.8	64.9
			21:45	65.9	66.7	65.5
			21:50	65.7	67.3	65.2
			21:55	65.7	66.6	65.5
			22:00	65.3	66.7	64.4
			22:05	65.9	67.8	65.5
			22:10	66.7	67.7	66.6
			22:15	65.3	65.8	64.4
			22:20	65.4	66.2	64.9
			22:25	64.6	65.7	64.0
			22:30	64.7	65.7	64.1
			22:35	63.9	65.0	63.2
			22:40	64.3	65.0	63.8
			22:45	64.2	64.7	63.4
			22:50	64.3	65.8	63.4
			22:55	65.3	66.8	65.1
02/06/2011	Fine	<5	19:20	66.0	67.6	64.3
			19:25	65.7	67.3	63.4
			19:30	67.7	69.8	65.3
			19:35	68.3	71.2	65.2
			19:40	66.7	68.2	64.6
			19:45	66.6	67.8	64.4
			19:50	66.8	68.5	64.5
			19:55	66.8	68.7	64.3
			20:00	66.7	68.6	64.6
			20:05	66.5	68.4	64.2
			20:20	66.6	68.1	65.0
			20:15	65.5	66.9	63.8
			20:20	66.2	67.5	64.7
			20:25	66.2	67.9	64.1
			20:30	67.5	69.0	64.9
			20:35	66.8	68.2	64.6
			20:40	65.8	67.1	64.1
			20:45	65.9	67.3	64.0
			20:50	66.0	67.2	64.2
			20:55	65.7	67.1	64.2
			21:00	65.9	67.1	64.0
			21:05	67.3	69.0	64.9
			21:10	65.6	67.2	63.6
			21:15	66.2	68.0	64.1

			21:20	66.1	67.6	64.0
			21:25	65.9	67.5	64.1
			21:30	66.2	67.7	64.2
			21:35	66.0	67.5	64.0
			21:40	66.2	67.9	64.2
			21:45	65.7	67.0	64.1
			21:50	65.3	66.8	63.5
			21:55	66.2	67.9	64.4
			22:00	65.4	66.6	64.2
			22:05	66.2	67.9	64.2
			22:10	66.5	68.0	64.4
			22:15	66.6	68.4	64.4
			22:20	65.5	66.7	63.9
			22:25	65.2	66.5	63.7
			22:30	65.2	66.7	63.4
			22:35	65.8	67.4	63.8
			22:40	65.6	66.9	63.7
			22:45	67.2	69.3	64.4
			22:50	66.2	67.7	64.6
			22:55	67.2	68.7	65.4
03/06/2011	Fine	<5	19:33	66.4	67.0	65.9
			19:38	67.0	67.4	66.2
			19:43	66.5	66.6	66.0
			19:48	65.7	66.0	65.6
			19:53	67.0	67.3	66.3
			19:58	65.6	65.7	65.0
			20:04	65.8	66.0	65.7
			20:09	66.0	66.1	65.7
			20:15	66.5	67.4	66.4
			20:20	65.7	65.9	65.6
			20:25	66.0	66.4	65.4
			20:31	67.0	67.2	66.4
			20:36	66.0	66.5	65.3
			20:41	65.4	65.6	65.2
			20:46	65.6	65.7	64.9
			20:51	66.1	66.3	65.9
			20:57	67.0	67.2	66.7
			21:02	66.5	67.1	65.7
			21:07	65.7	65.8	64.8
			21:12	66.0	66.1	65.8
			21:17	65.6	65.8	65.3
			21:22	65.4	65.7	64.6
			21:27	66.1	66.7	65.8
			21:32	65.8	66.7	65.2
			21:37	65.7	66.2	65.3
			21:42	65.8	66.4	65.8

			21:48	65.6	66.0	65.3
			21:53	66.2	66.8	66.2
			21:58	66.0	66.3	65.8
			22:04	65.6	66.3	65.2
			22:09	65.9	66.7	65.0
			22:14	66.3	67.3	65.9
			22:20	65.4	65.7	65.4
			22:25	65.3	66.1	64.7
			22:30	65.2	66.1	65.1
			22:36	66.5	66.7	66.2
			22:41	66.2	67.0	65.9
			22:46	65.9	66.5	65.4
			22:51	65.4	65.8	65.1
			22:56	65.8	66.7	65.4
04/06/2011	Fine	<5	19:28	66.5	67.1	64.7
			19:33	66.5	67.0	64.3
			19:38	66.2	66.7	64.7
			19:44	66.8	67.3	64.1
			19:49	65.9	67.1	64.6
			19:55	66.8	67.8	63.6
			20:00	66.3	67.4	64.0
			20:07	66.6	67.2	64.9
			20:12	66.7	68.0	64.8
			20:17	66.2	67.8	64.8
			20:22	66.0	66.7	64.1
			20:27	65.9	66.3	65.0
			20:33	66.1	66.7	65.2
			20:38	65.9	66.8	65.4
			20:43	65.7	66.9	64.8
			20:48	66.0	66.9	64.5
			20:53	65.6	66.3	64.7
			20:58	65.8	66.9	64.6
			21:03	65.5	66.6	65.4
			21:09	65.7	67.2	64.2
			21:14	66.0	66.1	65.2
			21:19	66.3	66.8	64.9
			21:24	66.0	67.2	64.5
			21:29	65.3	65.9	63.6
			21:34	65.8	66.2	65.2
			21:39	65.3	66.0	65.1
			21:45	66.3	67.8	65.3
			21:50	65.4	66.5	64.6
			21:55	65.8	66.9	65.0
			22:00	66.1	66.4	64.6
			22:05	65.8	66.2	64.1
			22:10	66.4	67.3	63.4

			22:15	65.3	66.1	65.2
			22:20	65.6	65.8	65.2
			22:25	65.9	67.6	64.9
			22:30	66.2	67.5	65.1
			22:35	67.0	67.9	64.7
			22:41	66.5	67.9	65.2
			22:46	66.8	67.3	66.0
			22:51	65.2	65.9	65.1
			22:56	66.3	67.5	65.1
05/06/2011	Fine	<5	19:31	65.4	66.9	64.5
			19:36	66.0	67.6	66.0
			19:41	65.9	66.4	65.2
			19:46	65.7	66.2	65.6
			19:51	65.9	66.7	65.7
			19:56	65.4	66.6	64.6
			20:01	65.0	65.8	64.3
			20:06	65.4	65.9	65.0
			20:11	65.2	65.5	64.6
			20:17	66.2	67.2	66.1
			20:22	66.4	67.4	65.8
			20:27	65.5	65.9	64.8
			20:32	64.9	65.5	64.9
			20:37	65.4	67.2	64.6
			20:43	65.3	66.6	64.6
			20:48	65.0	66.1	64.3
			20:54	66.1	67.7	65.5
			21:02	65.1	66.1	64.3
			21:07	65.6	67.2	65.4
			21:12	67.4	68.5	67.3
			21:17	67.5	69.3	67.2
			21:22	66.2	67.8	66.0
			21:27	65.3	66.3	65.1
			21:32	65.4	65.9	64.5
			21:37	66.0	66.9	65.8
			21:42	65.0	66.4	64.5
			21:47	65.8	67.5	65.4
			21:52	66.0	67.0	65.2
			21:57	66.1	67.3	65.1
			22:04	65.7	66.9	64.9
			22:09	64.9	66.2	64.3
			22:14	65.6	65.9	65.6
			22:19	65.3	66.2	64.4
			22:24	64.8	65.6	64.3
			22:29	64.6	65.1	64.3
			22:34	65.5	66.4	65.0
			22:39	65.1	66.3	64.2

			22:44	65.5	66.6	65.4
			22:49	64.9	66.4	64.3
			22:55	64.9	66.4	64.3
06/06/2011	Fine	<5	19:28	66.4	67.2	65.8
			19:33	66.8	67.6	66.0
			19:38	66.0	67.7	65.6
			19:43	66.9	67.9	66.8
			19:48	65.9	67.4	65.7
			19:53	66.5	67.2	65.5
			19:58	66.3	67.1	66.1
			20:03	66.5	67.7	66.3
			20:08	66.9	67.9	66.6
			20:13	66.2	67.7	65.2
			20:18	66.0	66.8	65.7
			20:23	66.9	67.3	66.1
			20:28	66.5	67.1	65.7
			20:33	65.5	66.5	65.1
			20:38	65.6	67.1	65.0
			20:43	65.5	66.5	64.7
			20:48	66.1	67.0	65.3
			20:54	65.4	66.8	65.2
			20:59	64.8	66.1	64.2
			21:05	65.0	65.6	64.4
			21:10	64.7	65.8	63.9
			21:15	64.9	65.6	64.3
			21:20	65.3	66.5	64.9
			21:25	65.4	66.3	65.2
			21:31	64.9	65.7	64.0
			21:36	65.6	66.7	64.8
			21:41	65.3	66.5	64.4
			21:46	65.2	66.8	65.1
			21:51	64.8	65.7	64.7
			21:56	64.5	65.9	63.6
			22:01	65.9	67.1	64.9
			22:06	66.1	67.2	65.1
			22:11	65.2	65.9	64.6
			22:16	64.9	65.8	64.1
			22:21	64.8	66.4	64.0
			22:27	65.2	66.8	64.4
			22:32	64.9	65.5	64.8
			22:37	65.5	67.0	64.7
			22:42	65.7	66.8	65.0
			22:47	65.4	66.0	64.5
			22:52	64.9	66.5	64.3
			22:57	64.8	65.3	64.1
			19:00	65.6	67.1	64.0

07/06/2011	Fine	<5	19:05	66.2	67.9	64.4
			19:10	66.6	68.1	64.2
			19:15	66.5	68.2	64.0
			19:20	67.0	68.9	64.9
			19:25	66.0	67.8	64.5
			19:30	66.1	67.8	64.3
			19:35	66.7	68.2	64.5
			19:40	67.2	68.8	64.9
			19:45	66.5	68.4	64.4
			19:50	66.5	68.3	64.2
			19:55	66.2	67.9	64.3
			20:00	66.1	67.5	63.8
			20:05	65.9	67.4	64.2
			20:10	65.7	67.3	64.1
			20:15	66.0	67.2	64.2
			20:20	65.8	67.2	64.1
			20:25	65.6	67.0	63.8
			20:30	67.9	70.4	64.3
			20:35	66.0	67.1	63.6
			20:40	65.0	66.3	63.4
			20:45	65.9	67.5	64.0
			20:50	65.3	66.7	63.4
			20:55	66.1	67.2	63.5
			21:00	65.4	66.5	64.1
			21:05	66.1	67.0	63.8
			21:10	68.4	70.2	63.7
			21:15	66.4	67.8	64.3
			21:20	65.0	66.1	63.2
			21:25	65.5	66.5	63.7
			21:30	65.3	66.7	63.5
			21:35	65.0	66.5	63.4
			21:40	65.2	66.6	63.1
			21:45	65.3	66.6	63.7
			21:50	65.1	66.5	63.5
			21:55	64.6	66.0	63.1
			22:00	65.8	67.5	63.6
			22:05	65.5	67.2	63.1
			22:10	65.0	66.6	63.5
			22:15	65.0	66.5	63.5
			22:20	65.0	66.3	63.7
			22:25	64.9	66.4	63.3
			22:30	64.8	66.5	62.8
			22:35	65.2	66.6	63.5
			22:40	65.8	67.4	63.6
			22:45	65.6	67.1	63.7
			22:50	65.2	66.8	63.5

			22:55	64.8	66.3	63.0
08/06/2011	Fine	<5	19:00	64.8	66.3	63.2
			19:05	66.6	68.3	64.8
			19:10	64.5	66.0	62.1
			19:15	66.5	68.2	64.0
			19:20	66.9	68.8	64.8
			19:25	65.7	67.5	64.2
			19:30	64.5	66.2	62.7
			19:35	66.8	68.3	64.6
			19:40	65.7	67.3	63.4
			19:45	66.7	68.6	64.6
			19:50	65.7	67.5	63.4
			19:55	66.1	67.8	64.2
			20:00	66.1	67.5	63.8
			20:05	64.3	65.8	62.6
			20:10	65.9	67.5	64.3
			20:15	65.3	66.5	63.5
			20:20	65.6	67.0	63.9
			20:25	64.8	66.2	63.0
			20:30	67.8	70.3	64.2
			20:35	67.6	68.7	65.2
			20:40	63.9	65.2	62.3
			20:45	64.6	66.2	62.7
			20:50	63.6	65.0	61.7
			20:55	66.3	67.4	63.7
			21:00	64.0	65.1	62.7
			21:05	66.8	67.7	64.5
			21:10	69.3	71.1	64.6
			21:15	65.2	66.6	63.1
			21:20	63.6	64.7	61.8
			21:25	64.6	65.6	62.8
			21:30	66.0	67.4	64.2
			21:35	64.8	66.3	63.2
			21:40	65.5	66.9	63.4
			21:45	65.3	66.6	63.7
			21:50	64.1	65.5	62.5
			21:55	64.7	66.1	63.2
			22:00	65.5	67.2	63.3
			22:05	63.4	65.1	61.0
			22:10	64.4	66.0	62.9
			22:15	65.4	66.9	63.9
			22:20	65.3	66.6	64.0
			22:25	64.2	65.7	62.6
			22:30	64.8	66.5	62.8
			22:35	65.4	66.8	63.7
			22:40	65.1	66.7	62.9

			22:45	64.8	66.3	62.9
			22:50	65.0	66.6	63.3
			22:55	64.6	66.1	62.8

Average	65.8	dB(A)
Max	69.3	dB(A)
Min	63.4	dB(A)

Noise Monitoring Station: M2b - Noon-day gun area

Monitoring Time Period: Normal Weekday between 2300 and 0700 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
25/05/2011	Fine	<5	23:00	66.1	67.9	64.0
			23:05	65.7	67.8	64.7
			23:10	65.6	66.7	63.8
			23:15	65.1	66.8	64.3
			23:20	64.8	66.7	64.2
			23:25	64.9	67.6	63.6
			23:30	65.6	68.0	64.3
			23:35	65.8	67.6	63.5
			23:40	65.2	67.5	63.9
			23:45	66.4	67.2	64.0
			23:50	66.6	68.3	64.9
			23:55	65.9	68.3	63.7
26/05/2011	Fine	<5	23:00	65.3	68.5	63.9
			23:05	65.9	67.7	65.1
			23:10	65.7	66.5	63.4
			23:15	65.4	66.9	64.2
			23:20	65.5	67.0	63.6
			23:25	66.0	67.2	63.5
			23:30	65.9	68.4	63.9
			23:35	65.2	67.6	64.2
			23:40	65.6	67.8	63.5
			23:45	64.8	68.1	63.7
			23:50	65.7	68.7	65.1
			23:55	65.7	68.4	63.6
27/05/2011	Fine	<5	23:00	66.5	68.4	64.2
			23:05	66.1	67.5	65.0
			23:10	64.8	66.5	63.5
			23:15	65.5	67.1	63.8
			23:20	64.8	66.5	64.4
			23:25	64.8	67.2	64.2
			23:30	66.3	68.2	64.4
			23:35	64.9	67.5	63.6
			23:40	65.4	67.3	63.9
			23:45	65.2	67.7	63.7
			23:50	65.5	68.6	64.4
			23:55	65.0	68.3	64.1
			23:00	65.6	68.5	63.7
			23:05	65.8	68.1	64.4
			23:10	64.3	67.2	63.9
			23:15	65.1	67.6	64.0

28/05/2011	Fine	<5	23:20	65.7	66.9	63.8
			23:25	65.3	67.8	64.0
			23:30	65.7	67.6	63.6
			23:35	65.2	67.4	64.3
			23:40	64.7	67.1	64.4
			23:45	65.1	67.9	63.5
			23:50	66.8	68.1	64.5
			23:55	65.6	68.2	64.2
29/05/2011	Fine	<5	23:00	65.6	68.6	63.8
			23:05	65.7	68.1	64.6
			23:10	64.7	66.4	63.6
			23:15	65.3	67.0	63.4
			23:20	65.8	67.2	64.1
			23:25	65.8	67.8	64.4
			23:30	65.7	67.5	63.6
			23:35	65.6	67.9	64.0
			23:40	66.0	67.8	64.0
			23:45	64.4	66.6	62.5
			23:50	64.5	67.8	63.4
			23:55	64.6	67.1	63.2
30/05/2011	Fine	<5	23:00	65.8	68.5	64.2
			23:05	65.7	68.1	65.2
			23:10	64.6	67.4	63.6
			23:15	65.9	66.8	63.7
			23:20	65.5	66.8	64.0
			23:25	66.2	66.9	64.4
			23:30	65.3	67.4	63.8
			23:35	65.3	67.6	63.4
			23:40	65.0	67.9	63.7
			23:45	65.1	66.4	62.4
			23:50	65.2	67.2	64.2
			23:55	64.7	67.5	63.2
31/05/2011	Fine	<5	23:00	66.1	68.0	64.7
			23:05	65.9	68.2	64.5
			23:10	65.7	67.1	63.6
			23:15	65.6	67.3	63.4
			23:20	64.5	66.7	63.5
			23:25	65.1	67.3	64.1
			23:30	66.5	67.8	64.2
			23:35	65.9	67.6	63.6
			23:40	65.8	67.0	64.3
			23:45	64.9	66.5	63.2
			23:50	65.4	67.8	64.1
			23:55	64.8	67.1	62.7
			23:00	64.7	66.2	63.5
			23:05	65.1	67.6	63.5

01/06/2011	Fine	<5	23:10	64.8	66.6	63.7
			23:15	64.3	65.7	63.0
			23:20	64.5	66.3	63.5
			23:25	64.1	65.2	63.5
			23:30	63.9	65.5	63.1
			23:35	64.1	65.9	62.8
			23:40	64.5	65.3	63.8
			23:45	64.3	66.5	62.7
			23:50	64.2	65.7	63.3
			23:55	64.7	65.5	64.0
02/06/2011	Fine	<5	23:00	66.0	67.6	63.7
			23:05	66.0	67.5	64.2
			23:10	64.9	66.4	63.0
			23:15	65.2	66.7	63.3
			23:20	65.1	66.4	63.4
			23:25	65.5	66.9	63.5
			23:30	65.8	67.4	63.5
			23:35	65.4	67.2	63.3
			23:40	65.6	67.0	63.4
			23:45	65.4	67.1	63.3
			23:50	66.3	67.9	64.2
			23:55	65.7	67.6	63.4
03/06/2011	Fine	<5	23:02	66.3	67.7	65.3
			23:07	67.0	68.4	66.3
			23:12	66.5	68.0	65.2
			23:17	65.8	67.2	65.2
			23:22	65.9	66.7	65.3
			23:27	66.0	67.0	65.5
			23:32	65.3	66.6	64.6
			23:37	66.0	68.6	64.3
			23:42	66.1	67.2	65.9
			23:48	65.9	67.7	65.1
			23:53	65.4	66.7	64.1
			23:58	65.3	66.9	64.4
04/06/2011	Fine	<5	23:01	67.0	68.8	65.5
			23:06	64.8	66.2	64.2
			23:11	65.3	65.9	65.0
			23:16	65.0	67.0	63.6
			23:21	64.9	66.7	64.1
			23:26	64.5	66.6	63.3
			23:31	65.0	65.7	64.3
			23:36	64.6	65.1	64.3
			23:41	65.1	66.3	64.1
			23:46	64.9	66.2	64.3
			23:51	65.3	66.9	64.5
			23:57	64.7	66.0	63.9

05/06/2011	Fine	<5	23:00	65.1	67.0	63.6
			23:05	65.3	67.5	63.9
			23:10	64.9	67.3	63.5
			23:15	65.1	66.2	64.7
			23:20	65.3	67.1	64.5
			23:26	65.0	66.3	63.9
			23:31	66.0	67.0	65.4
			23:36	64.8	66.2	64.3
			23:41	65.5	67.7	64.2
			23:46	65.1	66.8	64.3
			23:51	65.3	66.9	64.4
			23:56	64.9	66.6	63.8
06/06/2011	Fine	<5	23:02	65.9	67.5	64.5
			23:07	66.0	67.9	64.7
			23:12	64.8	65.8	64.3
			23:17	64.5	66.2	63.6
			23:22	65.0	66.7	63.4
			23:27	65.3	67.2	64.2
			23:32	65.1	66.4	64.0
			23:37	64.4	64.9	64.1
			23:42	64.7	66.4	63.8
			23:47	64.9	66.3	63.9
			23:53	65.1	66.9	63.6
			23:58	65.3	67.0	64.2
07/06/2011	Fine	<5	23:00	64.6	65.8	63.1
			23:05	65.2	66.4	63.5
			23:10	65.2	66.5	63.6
			23:15	65.3	65.9	63.4
			23:20	65.4	67.0	63.5
			23:25	65.0	66.2	63.5
			23:30	64.7	66.2	63.0
			23:35	66.0	68.1	63.0
			23:40	65.4	67.1	63.0
			23:45	65.0	66.8	62.7
			23:50	65.1	66.8	62.9
			23:55	65.0	66.4	63.2
08/06/2011	Fine	<5	23:00	66.3	68.0	65.0
			23:05	66.3	68.6	64.2
			23:10	65.2	66.4	64.0
			23:15	65.5	66.2	64.3
			23:20	65.4	65.4	64.8
			23:25	65.8	67.2	64.0
			23:30	66.1	67.1	64.9
			23:35	65.7	66.6	64.4
			23:40	65.9	67.6	64.5
			23:45	64.7	65.9	63.6

			23:50	65.6	66.0	64.9
			23:55	65.0	67.0	63.2

Average	65.4	dB(A)
Max	67.0	dB(A)
Min	63.9	dB(A)

Noise Monitoring Station: M3a - Tung Lo Wan Fire Station

Monitoring Time Period: Normal Weekday between 0700 and 1900 hrs without any construction works near monitoring station

Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
25/05/2011	Fine	<5	12:00	69.6	70.7	67.1
			12:30	68.6	70.3	64.9
26/05/2011	Fine	<5	12:00	69.5	70.7	67.0
			12:30	69.4	70.2	64.7
27/05/2011	Fine	<5	12:00	68.6	72.5	63.6
			12:30	69.2	71.6	66.2
28/05/2011	Fine	<5	12:00	68.9	72.3	63.3
			12:30	67.0	68.8	62.7
30/05/2011	Fine	<5	12:00	69.2	72.5	65.6
			12:30	68.1	71.8	63.4
31/05/2011	Fine	<5	12:00	69.2	71.5	66.4
			12:30	69.5	70.9	64.2
01/06/2011	Fine	<5	12:00	68.3	72.3	63.3
			12:30	69.1	73.1	65.2
02/06/2011	Fine	<5	12:00	68.4	71.5	63.6
			12:30	70.3	72.0	66.7
03/06/2011	Fine	<5	12:00	68.9	71.5	64.4
			12:30	69.0	72.8	65.1
04/06/2011	Fine	<5	12:00	69.8	71.3	63.9
			12:30	68.3	73.0	63.1
07/06/2011	Fine	<5	12:00	69.7	72.3	65.7
			12:30	69.2	69.2	48.1
08/06/2011	Fine	<5	12:00	67.6	68.5	46.2
			12:30	68.1	68.3	44.3

Average	68.8	dB(A)
Max	70.3	dB(A)
Min	67.0	dB(A)

Noise Monitoring Station: M3a - Tung Lo Wan Fire Station

Monitoring Time Period: Normal Weekday between 1900 and 2300 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
25/05/2011	Fine	<5	19:00	66.0	69.3	64.1
			19:05	67.3	69.1	63.6
			19:10	66.5	68.5	64.4
			19:15	66.7	68.7	63.8
			19:20	66.2	68.3	63.1
			19:25	65.8	68.4	63.5
			19:30	66.4	67.6	64.7
			19:35	66.7	68.7	63.5
			19:40	66.2	68.7	63.9
			19:45	65.4	68.1	64.0
			19:50	66.4	67.9	64.2
			19:55	65.9	68.2	63.7
			20:00	65.5	68.7	63.6
			20:05	66.3	68.7	63.7
			20:10	66.4	68.8	62.7
			20:15	64.9	67.2	63.0
			20:20	65.3	67.7	62.5
			20:25	66.0	68.1	63.5
			20:30	63.5	66.6	62.8
			20:35	65.0	67.3	62.3
			20:40	65.0	67.0	62.5
			20:45	64.8	67.1	62.3
			20:50	66.3	68.8	62.8
			20:55	65.1	66.3	63.3
			21:00	66.1	67.9	62.5
			21:05	65.5	68.2	63.9
			21:10	66.1	68.3	64.8
			21:15	66.2	67.8	62.6
			21:20	66.1	68.6	62.1
			21:25	64.7	66.7	62.8
			21:30	65.0	67.1	62.6
			21:35	64.8	67.6	61.8
			21:40	65.3	67.6	62.1
			21:45	64.9	67.1	62.5
			21:50	65.6	67.3	62.0
			21:55	65.3	67.4	61.7
			22:00	65.9	67.3	62.5
			22:05	65.3	69.2	63.3
			22:10	65.6	68.6	62.9
			22:15	65.4	69.1	61.7

			22:20	65.6	67.6	62.9
			22:25	65.5	67.3	62.4
			22:30	65.1	67.3	63.7
			22:35	64.3	67.4	62.6
			22:40	64.9	66.7	62.1
			22:45	65.3	67.1	62.4
			22:50	65.6	67.6	62.6
			22:55	64.6	66.8	61.5
26/05/2011	Fine	<5	19:00	66.1	69.4	63.9
			19:05	66.5	69.1	63.9
			19:10	67.5	68.4	63.7
			19:15	66.2	68.4	63.6
			19:20	65.7	69.0	63.2
			19:25	65.9	68.3	63.7
			19:30	66.0	67.5	64.5
			19:35	65.4	68.2	63.0
			19:40	66.9	69.4	63.9
			19:45	66.2	68.8	63.6
			19:50	66.0	68.7	63.7
			19:55	65.4	68.1	63.5
			20:00	65.2	68.9	64.4
			20:05	67.0	69.4	63.9
			20:10	65.9	68.4	62.7
			20:15	65.2	67.4	62.9
			20:20	65.1	67.7	62.7
			20:25	66.1	68.1	63.2
			20:30	63.5	66.2	62.7
			20:35	65.2	67.3	62.9
			20:40	65.0	67.8	62.3
			20:45	64.8	67.5	62.4
			20:50	66.5	69.1	62.5
			20:55	66.0	66.4	62.5
			21:00	66.0	68.0	62.5
			21:05	66.7	68.2	63.8
			21:10	65.7	67.6	64.9
			21:15	65.9	68.1	63.2
			21:20	66.9	68.8	62.6
			21:25	64.1	67.1	62.2
			21:30	65.6	66.8	62.1
			21:35	65.2	67.2	61.6
			21:40	65.5	67.6	61.8
			21:45	64.7	66.6	62.6
			21:50	65.0	67.4	62.3
			21:55	65.1	67.8	61.5
			22:00	65.6	67.8	62.3
			22:05	64.9	69.0	63.2

			22:10	65.6	68.5	62.8
			22:15	65.1	69.2	62.0
			22:20	65.1	68.3	63.2
			22:25	65.6	67.8	62.7
			22:30	65.2	66.9	63.6
			22:35	64.6	66.5	62.8
			22:40	63.5	66.2	62.5
			22:45	64.9	67.4	62.0
			22:50	65.4	67.5	62.7
			22:55	64.3	66.9	61.3
27/05/2011	Fine	<5	19:00	66.3	69.2	63.6
			19:05	68.0	69.2	63.8
			19:10	66.8	68.4	63.8
			19:15	66.3	68.2	64.3
			19:20	66.7	68.6	63.0
			19:25	66.4	68.3	64.4
			19:30	66.0	67.7	64.9
			19:35	65.8	68.9	63.4
			19:40	66.0	68.6	63.4
			19:45	66.0	67.8	64.1
			19:50	66.0	68.3	63.7
			19:55	65.5	68.6	63.8
			20:00	65.8	68.6	64.4
			20:05	65.8	68.8	63.2
			20:10	66.7	68.5	63.0
			20:15	64.8	67.6	63.1
			20:20	64.9	67.6	62.7
			20:25	66.4	68.5	63.1
			20:30	63.6	66.9	63.3
			20:35	65.0	67.9	62.6
			20:40	65.2	67.4	62.2
			20:45	65.5	66.8	62.6
			20:50	65.9	68.9	63.4
			20:55	65.5	66.6	62.8
			21:00	65.5	67.8	63.0
			21:05	66.6	68.3	64.4
			21:10	65.8	68.1	64.9
			21:15	65.8	68.4	63.3
			21:20	65.3	68.6	62.1
			21:25	64.5	67.2	62.1
			21:30	65.5	67.4	62.1
			21:35	65.5	67.7	61.5
			21:40	64.9	67.4	61.9
			21:45	64.3	66.7	62.9
			21:50	64.3	67.1	62.4
			21:55	64.8	67.6	61.6

			22:00	65.2	67.7	62.7
			22:05	65.7	68.8	62.5
			22:10	65.9	68.4	63.2
			22:15	65.4	69.3	62.1
			22:20	65.4	67.8	63.0
			22:25	65.8	67.9	62.2
			22:30	64.8	66.8	63.0
			22:35	63.8	67.2	62.6
			22:40	64.2	66.2	62.5
			22:45	63.8	67.5	62.0
			22:50	65.4	68.2	63.2
			22:55	64.8	66.5	61.8
28/05/2011	Fine	<5	19:00	66.5	69.5	63.8
			19:05	67.7	69.3	63.7
			19:10	67.5	68.5	64.1
			19:15	66.2	68.3	64.4
			19:20	67.2	68.7	63.2
			19:25	66.6	68.7	64.0
			19:30	66.3	67.9	64.0
			19:35	66.2	68.9	63.4
			19:40	65.9	69.2	64.1
			19:45	66.7	68.7	64.0
			19:50	66.0	68.8	63.9
			19:55	66.2	68.3	64.2
			20:00	65.7	68.7	64.1
			20:05	66.0	68.5	63.6
			20:10	66.1	68.1	62.8
			20:15	64.9	67.8	63.3
			20:20	66.3	67.5	62.7
			20:25	65.5	68.8	63.6
			20:30	64.0	66.9	62.8
			20:35	65.5	67.7	62.6
			20:40	65.1	68.0	62.3
			20:45	64.7	66.8	62.8
			20:50	66.2	68.9	62.9
			20:55	65.5	67.0	63.4
			21:00	65.6	67.9	62.6
			21:05	66.7	68.5	64.5
			21:10	65.3	67.6	64.9
			21:15	65.8	68.6	63.4
			21:20	66.7	68.6	62.8
			21:25	65.3	66.6	62.3
			21:30	65.4	67.4	62.0
			21:35	65.4	67.5	62.5
			21:40	65.1	67.1	61.9
			21:45	64.7	67.1	62.4

			21:50	64.3	67.1	62.4
			21:55	64.4	67.3	62.4
			22:00	65.4	67.6	62.8
			22:05	65.9	68.8	62.7
			22:10	66.2	68.2	63.2
			22:15	64.6	69.0	61.7
			22:20	64.7	68.3	63.2
			22:25	65.2	67.5	62.6
			22:30	64.2	67.2	63.8
			22:35	64.6	67.1	62.5
			22:40	64.5	66.5	62.9
			22:45	64.7	67.2	61.9
			22:50	65.9	67.6	62.7
			22:55	64.5	66.6	61.3
29/05/2011	Fine	<5	19:00	66.4	68.8	64.3
			19:05	66.8	69.0	63.9
			19:10	66.4	68.8	64.5
			19:15	66.2	68.5	64.2
			19:20	66.5	68.3	62.9
			19:25	66.0	68.9	64.2
			19:30	65.8	67.2	64.1
			19:35	66.4	69.0	63.5
			19:40	66.8	69.4	63.8
			19:45	65.8	68.2	64.1
			19:50	66.0	68.5	63.8
			19:55	66.2	68.9	63.9
			20:00	65.6	68.6	63.7
			20:05	65.7	68.5	63.6
			20:10	66.1	68.9	63.1
			20:15	65.1	67.4	63.4
			20:20	64.8	68.5	62.9
			20:25	65.6	68.1	63.5
			20:30	64.6	66.0	63.4
			20:35	65.0	67.6	62.5
			20:40	65.1	67.4	62.2
			20:45	64.7	67.1	62.1
			20:50	65.9	69.2	63.1
			20:55	66.0	66.7	63.3
			21:00	65.8	67.5	63.1
			21:05	65.9	67.7	64.2
			21:10	65.9	68.5	64.6
			21:15	66.1	68.2	63.0
			21:20	67.0	68.6	62.8
			21:25	64.5	66.8	63.0
			21:30	65.7	67.6	62.1
			21:35	65.9	67.2	62.2

			21:40	65.7	67.8	62.4
			21:45	63.8	67.3	62.7
			21:50	64.8	67.0	62.3
			21:55	65.0	67.0	61.6
			22:00	65.4	67.1	62.8
			22:05	65.8	68.6	62.7
			22:10	65.3	68.0	62.8
			22:15	64.8	68.6	62.1
			22:20	65.0	68.0	63.0
			22:25	65.8	67.7	62.1
			22:30	65.1	66.7	63.4
			22:35	64.4	66.8	62.9
			22:40	64.3	66.7	62.6
			22:45	64.3	67.2	61.7
			22:50	64.8	67.6	62.6
			22:55	64.3	66.3	61.3
30/05/2011	Fine	<5	19:00	66.7	68.8	64.3
			19:05	66.5	69.0	63.3
			19:10	66.8	68.4	64.4
			19:15	65.8	68.1	64.1
			19:20	66.9	68.6	63.3
			19:25	66.4	68.8	63.4
			19:30	66.7	67.7	64.3
			19:35	66.6	69.0	63.1
			19:40	67.1	69.2	63.6
			19:45	65.7	67.9	64.2
			19:50	66.4	68.8	63.8
			19:55	65.6	68.9	64.3
			20:00	65.8	68.0	63.6
			20:05	66.0	69.4	63.3
			20:10	66.4	68.7	63.5
			20:15	65.5	67.2	63.1
			20:20	64.8	68.2	62.6
			20:25	66.4	68.5	63.2
			20:30	64.5	66.6	63.4
			20:35	64.8	67.8	63.2
			20:40	64.9	67.1	62.8
			20:45	64.6	66.6	62.4
			20:50	65.4	68.7	63.3
			20:55	65.1	66.7	62.8
			21:00	65.4	68.4	63.1
			21:05	66.1	68.4	64.2
			21:10	66.0	68.2	64.3
			21:15	65.7	67.8	63.5
			21:20	66.1	68.6	62.7
			21:25	64.5	67.1	62.9

			21:30	65.3	67.5	62.2
			21:35	65.6	67.7	61.5
			21:40	65.1	67.3	61.6
			21:45	64.6	67.0	62.3
			21:50	65.2	67.8	62.5
			21:55	65.0	67.8	61.6
			22:00	64.5	67.5	62.8
			22:05	65.4	68.5	63.4
			22:10	65.9	68.6	63.4
			22:15	65.8	68.6	62.5
			22:20	64.6	67.9	63.4
			22:25	65.4	67.6	62.9
			22:30	64.6	67.2	63.2
			22:35	64.7	66.5	62.8
			22:40	64.4	66.3	62.7
			22:45	64.7	67.5	61.6
			22:50	65.6	68.1	62.5
			22:55	63.5	66.9	61.7
31/05/2011	Fine	<5	19:00	67.1	68.8	63.5
			19:05	67.9	69.3	63.9
			19:10	67.3	69.2	64.0
			19:15	66.7	68.8	64.5
			19:20	66.3	69.1	63.6
			19:25	66.1	68.6	63.6
			19:30	65.9	67.2	64.7
			19:35	66.3	68.4	63.4
			19:40	65.8	68.5	63.5
			19:45	65.7	68.3	63.5
			19:50	66.2	67.9	64.3
			19:55	66.8	68.2	64.2
			20:00	66.7	68.1	64.1
			20:05	66.0	68.8	63.4
			20:10	66.3	68.1	63.3
			20:15	65.6	67.1	62.9
			20:20	65.1	68.2	62.3
			20:25	65.4	68.7	63.6
			20:30	64.0	66.0	62.7
			20:35	65.2	68.1	62.9
			20:40	64.8	67.3	62.2
			20:45	64.4	67.2	62.7
			20:50	66.0	68.9	63.1
			20:55	64.8	66.0	62.6
			21:00	65.6	67.6	63.2
			21:05	66.2	67.7	63.9
			21:10	66.0	67.8	65.0
			21:15	65.7	68.4	62.8

			21:20	66.4	68.8	62.6
			21:25	64.5	66.6	62.9
			21:30	65.5	67.6	61.8
			21:35	65.5	67.9	62.4
			21:40	64.9	67.2	62.1
			21:45	64.9	67.3	62.1
			21:50	64.8	67.3	62.1
			21:55	65.3	67.6	62.0
			22:00	65.2	67.5	62.5
			22:05	66.2	68.4	62.7
			22:10	64.9	68.7	63.1
			22:15	64.5	69.0	62.2
			22:20	65.1	68.2	63.5
			22:25	65.3	67.9	62.7
			22:30	64.1	67.2	63.4
			22:35	64.6	67.1	63.3
			22:40	64.2	66.8	62.2
			22:45	64.2	67.1	62.1
			22:50	65.3	67.8	63.0
			22:55	63.5	66.1	61.4
01/06/2011	Fine	<5	19:10	65.8	65.9	65.1
			19:15	65.2	65.9	64.6
			19:20	63.9	64.5	63.0
			19:25	66.0	66.4	65.7
			19:31	64.8	65.2	64.0
			19:42	64.6	65.4	64.4
			19:47	65.4	66.1	64.4
			19:52	64.7	65.4	63.7
			19:57	65.8	66.4	65.6
			20:02	64.6	65.5	64.4
			20:07	64.9	65.1	64.2
			20:13	64.7	65.3	64.7
			20:18	65.8	65.9	65.4
			20:23	64.1	64.6	63.8
			20:28	65.0	65.9	64.2
			20:34	64.3	64.4	63.7
			20:39	64.0	64.6	63.2
			20:44	64.8	65.3	64.4
			20:49	63.7	64.2	63.0
			20:54	64.2	65.0	64.1
			21:00	67.4	68.2	67.0
			21:05	65.6	66.4	65.1
			21:10	65.1	65.7	65.0
			21:15	64.9	64.9	64.4
			21:21	64.3	65.1	64.2
			21:26	64.2	65.1	63.6

			21:32	63.2	64.2	62.9
			21:37	64.7	65.7	64.6
			21:42	64.8	65.4	64.2
			21:47	64.6	65.6	64.4
			21:52	64.4	64.5	63.8
			21:57	63.9	63.9	63.3
			22:03	63.7	63.8	63.0
			22:08	63.5	64.1	62.9
			22:14	63.8	64.6	62.9
			22:19	64.1	64.4	63.4
			22:24	64.6	64.8	64.3
			22:29	64.3	64.6	64.2
			22:34	64.2	64.3	63.2
			22:39	65.0	65.3	64.3
			22:45	63.8	*64.7*	*63.1*
			22:50	63.9	64.7	63.5
			22:55	64.7	64.8	64.0
02/06/2011	Fine	<5	22:20	64.4	66.1	62.1
			22:25	64.5	66.1	61.9
			22:30	65.1	66.7	62.3
			22:35	64.9	66.4	62.2
			22:40	64.4	66.3	61.7
			22:45	64.0	65.8	61.4
			22:50	64.8	66.8	61.4
			22:55	64.6	66.8	61.8
			19:00	66.5	68.5	63.5
			19:05	67.1	68.9	63.2
			19:10	66.7	68.3	63.7
			19:15	66.4	67.9	63.6
			19:20	66.3	68.1	62.6
			19:25	66.4	68.0	63.4
			19:30	66.0	67.1	64.0
			19:35	66.2	68.2	63.0
			19:40	66.5	68.5	63.3
			19:45	65.9	67.8	63.2
			19:50	66.1	67.9	63.6
			19:55	66.2	68.1	63.4
			20:00	65.8	68.0	63.6
			20:05	66.3	68.5	63.0
			20:10	66.1	68.0	62.5
			20:15	65.2	67.0	62.5
			20:20	65.4	67.5	62.0
			20:25	66.2	67.9	62.6
			20:30	64.0	66.0	62.5
			20:35	65.2	67.2	62.2
			20:40	65.0	67.0	62.0

03/06/2011	Fine	<5	20:45	64.7	66.5	62.0
			20:50	66.0	68.5	62.5
			20:55	65.7	66.0	62.5
			21:00	65.6	67.5	62.5
			21:05	66.0	67.6	63.8
			21:10	65.9	67.5	64.0
			21:15	65.9	67.8	62.5
			21:20	66.1	68.0	62.0
			21:25	64.4	66.5	62.0
			21:30	65.2	66.8	61.8
			21:35	65.3	67.0	61.5
			21:40	65.0	67.0	61.5
			21:45	64.6	66.5	62.0
			21:50	65.1	66.9	61.7
			21:55	65.0	67.0	61.5
			22:00	65.2	67.0	62.0
			22:05	65.7	68.2	62.4
			22:10	65.5	68.0	62.5
			22:15	65.3	68.5	61.5
			22:20	65.2	67.5	62.5
			22:25	65.4	67.0	62.0
			22:30	64.7	66.5	62.9
			22:35	64.5	66.4	62.5
			22:40	64.3	66.0	62.0
			22:45	64.7	67.0	61.5
			22:50	65.5	67.5	62.5
			22:55	64.2	66.0	61.0
			19:00	67.2	68.5	64.3
			19:05	66.9	68.2	64.6
			19:10	67.0	68.2	64.2
			19:15	67.3	69.0	64.9
			19:20	67.2	69.4	64.7
			19:25	66.9	68.2	63.9
			19:30	66.5	68.5	63.5
			19:35	67.3	69.4	63.2
			19:40	67.5	69.5	63.5
			19:45	67.2	68.9	64.6
			19:50	67.0	68.5	64.5
			19:55	67.3	69.0	63.5
			20:00	67.0	67.1	66.4
			20:05	66.5	68.2	64.6
			20:10	64.7	67.5	64.7
			20:15	65.6	67.7	64.9
			20:20	63.9	65.0	61.5
			20:25	64.2	66.6	62.9
			20:30	68.6	69.0	62.5

04/06/2011	Fine	<5	20:35	67.5	68.6	63.2
			20:40	66.0	67.5	63.5
			20:45	66.9	67.8	63.6
			20:50	67.5	69.0	63.0
			20:55	67.3	68.7	63.2
			21:00	67.6	69.5	65.0
			21:05	67.1	68.5	64.9
			21:10	67.5	69.5	64.0
			21:15	67.8	68.6	64.8
			21:20	67.7	69.0	65.0
			21:25	67.7	68.9	65.1
			21:30	66.4	68.5	63.5
			21:35	66.5	68.6	63.5
			21:40	64.5	66.0	62.0
			21:45	65.6	67.5	62.2
			21:50	64.9	66.5	62.5
			21:55	65.2	66.9	62.4
			22:00	63.9	65.5	62.0
			22:05	64.2	66.2	62.1
			22:10	64.6	66.5	62.0
			22:15	64.2	66.3	62.3
			22:20	64.7	67.0	62.0
			22:25	64.5	66.9	62.2
			22:30	64.1	66.5	61.0
			22:35	64.0	66.0	61.0
			22:40	64.5	66.5	61.5
			22:45	64.3	66.3	61.3
			22:50	64.2	66.0	61.5
			22:55	64.5	66.4	61.4
			19:30	66.4	67.1	66.0
			19:35	66.2	66.2	65.5
			19:40	65.9	66.7	65.6
			19:45	65.2	65.4	64.8
			19:50	64.3	65.3	63.9
			19:55	66.6	67.5	66.6
			20:00	64.9	65.2	64.2
			20:05	64.8	65.3	64.4
			20:10	65.2	65.4	64.2
			20:15	66.0	67.0	65.0
			20:20	64.8	65.1	63.9
			20:25	64.5	64.6	63.8
			20:30	64.1	64.4	63.8
			20:35	64.6	65.5	63.8
			20:40	65.5	65.6	64.8
			20:45	64.8	64.9	64.0
			20:50	65.0	65.3	64.8

05/06/2011	Fine	<5	20:55	64.7	64.9	63.9
			21:00	63.0	63.5	62.5
			21:05	63.5	63.7	63.0
			21:10	64.3	65.0	63.3
			21:15	64.2	64.3	63.6
			21:20	63.6	63.6	62.7
			21:25	64.5	65.2	64.1
			21:30	64.2	64.3	63.5
			21:35	64.5	65.0	64.1
			21:40	64.1	65.1	63.8
			21:45	64.8	64.9	63.9
			21:50	66.0	66.1	65.0
			21:55	65.0	65.8	64.6
			22:00	64.3	64.5	63.8
			22:05	64.3	64.4	63.7
			22:10	65.9	66.7	65.7
			22:15	64.1	64.6	63.4
			22:20	63.9	64.1	62.9
			22:25	63.8	64.2	63.5
			22:30	63.5	63.9	62.7
			22:35	64.0	64.6	63.1
			22:40	63.8	64.7	63.0
			22:45	64.2	65.2	63.3
			22:50	64.1	65.0	63.4
			22:55	64.2	64.4	63.5
			19:00	66.0	66.9	65.7
			19:05	65.2	66.1	65.1
			19:10	65.4	66.3	65.0
			19:15	64.9	65.7	64.4
			19:20	65.5	66.0	64.9
			19:25	65.2	66.2	64.3
			19:30	65.6	66.5	65.2
			19:35	65.2	65.3	64.5
			19:40	64.9	64.9	64.3
			19:45	65.3	65.4	64.5
			19:50	65.5	66.1	64.9
			19:55	64.8	65.6	64.2
			20:00	64.3	64.4	63.8
			20:05	65.6	66.0	65.0
			20:10	64.8	65.2	64.4
			20:15	64.7	65.6	64.3
			20:20	64.3	65.0	63.7
			20:25	64.5	65.1	63.8
			20:30	63.9	64.3	63.6
			20:35	64.0	64.2	63.1
			20:40	63.6	64.6	63.5

06/06/2011	Fine	<5	20:45	64.6	65.5	64.1
			20:50	64.4	65.1	63.4
			20:55	64.4	65.1	63.9
			21:00	64.8	64.9	63.8
			21:05	63.9	64.6	63.4
			21:10	64.1	64.9	63.9
			21:15	64.9	65.0	64.1
			21:20	64.1	64.7	63.4
			21:25	64.5	64.8	64.1
			21:30	64.5	65.2	63.9
			21:35	64.3	64.6	63.7
			21:40	64.2	64.8	63.7
			21:45	64.3	64.4	64.0
			21:50	64.9	65.9	64.1
			21:55	63.7	64.2	62.7
			22:00	64.0	64.4	63.6
			22:05	64.2	65.0	63.7
			22:10	64.9	65.1	64.2
			22:15	64.2	64.9	63.9
			22:20	64.6	65.0	64.4
			22:25	63.9	64.3	63.0
			22:30	65.6	65.8	65.1
			22:35	63.9	64.2	63.3
			22:40	64.2	64.6	64.2
			22:45	63.8	64.4	63.2
			22:50	64.1	64.9	64.0
			22:55	64.5	64.8	64.1
07/06/2011	Fine	<5	21:15	65.2	67.0	62.5
			21:20	64.5	66.0	62.0
			21:25	64.7	66.5	62.0
			21:30	65.2	67.5	62.0
			21:35	64.3	66.0	61.5
			21:40	64.8	66.5	62.5
			21:45	65.3	68.0	61.5
			21:50	64.9	67.0	62.0
			21:55	65.0	67.0	62.0
			22:00	64.8	66.5	61.5
			22:05	64.1	65.5	62.0
			22:10	64.4	66.5	61.0
			22:15	64.4	65.5	62.5
			22:20	64.4	66.0	62.0
			22:25	65.2	67.0	62.0
			22:30	64.6	67.0	62.0
			22:35	66.0	68.5	62.0
			22:40	64.2	66.0	62.0
			22:45	63.9	65.5	60.5

			22:50	64.3	66.0	61.5
			22:55	64.0	66.5	61.0
08/06/2011	Fine	<5	19:00	66.7	69.0	64.1
			19:05	66.6	69.8	63.7
			19:10	67.3	68.5	64.5
			19:15	66.9	68.1	64.6
			19:20	65.9	68.9	63.0
			19:25	66.5	68.0	64.1
			19:30	65.6	67.7	64.3
			19:35	65.9	68.4	63.6
			19:40	66.2	69.4	63.7
			19:45	65.6	68.1	63.9
			19:50	66.2	68.2	64.2
			19:55	66.7	68.5	63.5
			20:00	66.5	68.7	64.4
			20:05	66.0	69.4	63.2
			20:10	66.5	69.0	63.4
			20:15	65.8	67.1	63.3
			20:20	65.0	68.3	62.1
			20:25	66.4	68.2	63.0
			20:30	64.4	66.4	63.1
			20:35	65.8	67.3	62.4
			20:40	65.0	67.4	62.3
			20:45	65.1	67.2	62.3
			20:50	65.1	69.1	62.5
			20:55	65.6	66.9	63.2
			21:00	65.1	67.7	62.8
			21:05	66.3	67.9	63.8
			21:10	65.3	67.7	64.4
			21:15	65.5	68.3	62.9
			21:20	66.3	68.8	62.7
			21:25	63.7	67.0	62.1
			21:30	65.2	67.0	62.7
			21:35	65.4	67.8	62.0
			21:40	65.2	67.4	61.5
			21:45	64.7	66.9	63.0
			21:50	64.9	67.8	62.1
			21:55	65.1	67.3	61.9
			22:00	65.3	67.3	62.1
			22:05	66.3	68.3	63.1
			22:10	66.2	68.8	62.5
			22:15	65.4	68.8	61.8
			22:20	65.1	67.5	62.5
			22:25	65.7	67.9	63.0
			22:30	65.3	67.0	63.4
			22:35	64.2	66.9	63.0

			22:40	64.7	66.5	62.1
			22:45	65.1	67.6	62.1
			22:50	65.8	68.0	62.9
			22:55	64.4	66.7	61.4

Average	65.5	dB(A)
Max	68.6	dB(A)
Min	63.0	dB(A)

Noise Monitoring Station: M3a - Tung Lo Wan Fire Station

Monitoring Time Period: Normal Weekday between 2300 and 0700 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
25/05/2011	Fine	<5	23:00	64.6	66.8	60.8
			23:05	63.6	66.1	60.1
			23:10	64.4	66.4	61.9
			23:15	64.6	66.8	61.5
			23:20	62.8	64.6	60.1
			23:25	63.3	65.2	60.8
			23:30	64.5	66.5	60.5
			23:35	64.2	66.3	60.8
			23:40	64.4	66.6	61.1
			23:45	63.5	64.9	60.7
			23:50	64.5	66.7	61.7
			23:55	64.5	66.2	60.8
26/05/2011	Fine	<5	23:00	64.6	66.8	60.8
			23:05	64.4	66.9	60.9
			23:10	64.6	66.6	62.1
			23:15	64.0	66.2	60.9
			23:20	63.6	65.4	60.9
			23:25	63.6	65.5	61.1
			23:30	65.1	67.1	61.1
			23:35	63.7	65.8	60.3
			23:40	64.7	66.9	61.4
			23:45	63.4	64.8	60.6
			23:50	63.9	66.1	61.1
			23:55	65.3	67.0	61.6
27/05/2011	Fine	<5	23:00	64.8	67.0	61.0
			23:05	64.5	67.0	61.0
			23:10	64.3	66.3	61.8
			23:15	63.5	65.7	60.4
			23:20	63.5	65.3	60.8
			23:25	64.2	66.1	61.7
			23:30	64.9	66.9	60.9
			23:35	64.1	66.2	60.7
			23:40	64.5	66.7	61.2
			23:45	64.0	65.4	61.2
			23:50	64.7	66.9	61.9
			23:55	64.4	66.1	60.7
			23:00	63.5	65.7	59.7
			23:05	63.9	66.4	60.4
			23:10	64.2	66.2	61.7
			23:15	63.5	65.7	60.4

28/05/2011	Fine	<5	23:20	63.8	65.6	61.1
			23:25	64.1	66.0	61.6
			23:30	65.5	67.5	61.5
			23:35	64.8	66.9	61.4
			23:40	64.3	66.5	61.0
			23:45	62.8	64.2	60.0
			23:50	64.1	66.3	61.3
			23:55	64.1	65.8	60.4
29/05/2011	Fine	<5	23:00	63.5	65.7	59.7
			23:05	64.6	67.1	61.1
			23:10	63.6	65.6	61.1
			23:15	64.3	66.5	61.2
			23:20	64.6	66.4	61.9
			23:25	64.3	66.2	61.8
			23:30	64.5	66.5	60.5
			23:35	63.3	65.4	59.9
			23:40	64.6	66.8	61.3
			23:45	63.3	64.7	60.5
			23:50	64.1	66.3	61.3
			23:55	64.0	65.7	60.3
30/05/2011	Fine	<5	23:00	64.7	66.9	60.9
			23:05	64.2	66.7	60.7
			23:10	64.5	66.5	62.0
			23:15	64.6	66.8	61.5
			23:20	63.9	65.7	61.2
			23:25	64.0	65.9	61.5
			23:30	64.6	66.6	60.6
			23:35	64.3	66.4	60.9
			23:40	64.5	66.7	61.2
			23:45	64.0	65.4	61.2
			23:50	64.3	66.5	61.5
			23:55	64.8	66.5	61.1
31/05/2011	Fine	<5	23:00	64.3	66.5	60.5
			23:05	63.9	66.4	60.4
			23:10	64.3	66.3	61.8
			23:15	63.9	66.1	60.8
			23:20	62.9	64.7	60.2
			23:25	64.1	66.0	61.6
			23:30	64.9	66.9	60.9
			23:35	64.4	66.5	61.0
			23:40	64.0	66.2	60.7
			23:45	63.6	65.0	60.8
			23:50	64.4	66.6	61.6
			23:55	64.5	66.2	60.8
			23:00	64.8	65.0	60.0
			23:05	65.2	65.6	60.1

01/06/2011	Fine	<5	23:10	64.6	64.9	61.2
			23:15	63.3	63.4	60.7
			23:20	65.2	65.8	60.2
			23:25	64.7	65.1	60.9
			23:30	64.8	65.1	60.3
			23:36	64.0	64.6	60.4
			23:41	65.0	65.7	60.6
			23:46	65.1	66.0	60.3
			23:51	64.8	65.8	61.2
02/06/2011	Fine	<5	23:00	64.1	66.2	61.5
			23:05	63.5	66.1	61.0
			23:10	64.0	66.7	61.0
			23:15	64.0	66.1	61.0
			23:20	64.1	65.4	61.4
			23:25	63.7	65.7	61.1
			23:30	63.2	65.1	60.6
			23:35	64.6	67.1	60.7
03/06/2011	Fine	<5	23:00	63.9	65.5	62.0
			23:05	64.6	66.5	62.0
			23:10	65.0	66.5	62.5
			23:15	64.9	67.0	62.0
			23:20	65.6	69.0	61.0
			23:25	64.9	66.5	62.5
04/06/2011	Fine	<5	23:00	64.3	66.5	60.5
			23:05	64.0	66.5	60.5
			23:10	64.0	66.0	61.5
			23:15	64.2	66.4	61.1
			23:20	63.7	65.5	61.0
			23:25	63.9	65.8	61.4
			23:30	65.0	67.0	61.0
			23:35	63.9	66.0	60.5
			23:40	64.3	66.5	61.0
			23:45	63.6	65.0	60.8
			23:50	64.3	66.5	61.5
			23:55	64.5	66.2	60.8
05/06/2011	Fine	<5	23:00	63.7	64.2	60.3
			23:05	64.2	64.9	60.5
			23:10	63.5	63.5	60.9
			23:15	64.0	64.2	60.5
			23:20	64.2	64.6	60.4
			23:25	63.9	64.1	61.1
			23:30	64.0	64.4	60.8
			23:35	63.8	63.9	59.8
			23:40	64.2	64.6	60.2
			23:45	64.1	64.4	60.8
			23:50	64.3	64.4	61.3

			23:55	64.1	64.4	59.9
06/06/2011	Fine	<5	23:00	63.4	64.1	63.1
			23:05	64.0	64.5	63.0
			23:10	64.2	64.4	63.3
			23:15	63.8	63.9	63.6
			23:20	64.7	65.1	64.2
			23:25	64.2	65.2	63.2
			23:30	64.4	65.2	63.8
			23:35	64.2	64.2	64.0
			23:40	64.3	64.9	64.0
			23:45	64.4	65.0	63.5
			23:50	63.9	64.7	63.0
			23:55	64.5	64.6	64.0
07/06/2011	Fine	<5	23:00	64.1	66.0	61.0
			23:05	64.1	66.5	61.0
			23:10	64.3	67.0	62.0
			23:15	64.5	67.0	61.0
			23:20	63.3	64.5	60.5
			23:25	64.2	65.5	60.5
08/06/2011	Fine	<5	23:00	64.5	66.7	60.7
			23:05	63.9	66.4	60.4
			23:10	64.2	66.2	61.7
			23:15	64.4	66.6	61.3
			23:20	63.9	65.7	61.2
			23:25	64.0	65.9	61.5
			23:30	65.0	67.0	61.0
			23:35	64.3	66.4	60.9
			23:40	64.1	66.3	60.8
			23:45	63.3	64.7	60.5
			23:50	64.2	66.4	61.4
			23:55	64.9	66.6	61.2

Average	64.2	dB(A)
Max	65.6	dB(A)
Min	62.8	dB(A)

Noise Monitoring Station: M4b - Victoria Centre

Monitoring Time Period: Normal Weekday between 0700 and 1900 hrs without any construction works near monitoring station

			30-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
12/05/2011	Fine	<5	12:00	65.0	66.2	64.3
			12:30	68.3	71.5	64.4
13/05/2011	Fine	<5	12:00	66.6	67.9	64.9
			12:30	66.9	68.1	65.4
14/05/2011	Fine	<5	12:00	66.3	67.7	64.8
			12:30	66.4	67.9	64.6
16/05/2011	Fine	<5	12:00	66.7	68.3	65.1
			12:30	67.0	68.9	65.4
17/05/2011	Fine	<5	12:00	65.9	67.7	63.9
			12:30	65.7	67.2	63.9
18/05/2011	Fine	<5	12:00	65.8	67.5	63.8
			12:30	64.4	65.7	63.0
19/05/2011	Fine	<5	12:00	68.0	69.3	65.9
			12:30	66.7	68.0	65.1
20/05/2011	Fine	<5	12:00	67.1	68.1	65.6
			12:30	67.4	68.5	65.9
21/05/2011	Fine	<5	12:00	67.6	69.8	64.3
			12:30	67.4	69.9	64.9
23/05/2011	Fine	<5	12:00	69.6	71.0	67.5
			12:30	69.3	70.8	67.1
24/05/2011	Fine	<5	12:00	68.4	70.5	64.7
			12:30	68.7	69.8	64.6
25/05/2011	Fine	<5	12:00	67.3	68.8	65.2
			12:30	67.2	69.0	64.9

Average	67.3	dB(A)
Max	69.6	dB(A)
Min	64.4	dB(A)

Noise Monitoring Station: M4b - Victoria Centre

Monitoring Time Period: Normal Weekday between 1900 and 2300 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
12/05/2011	Fine	<5	19:00	66.5	67.9	64.7
			19:05	67.8	68.9	66.3
			19:10	67.1	68.4	65.6
			19:15	66.9	68.1	65.3
			19:20	66.4	67.6	64.7
			19:25	66.8	68.9	64.7
			19:30	66.5	67.9	64.6
			19:35	66.8	68.2	65.1
			19:40	67.8	69.1	65.3
			19:45	67.5	68.8	65.3
			19:50	67.1	68.3	65.6
			19:55	66.7	68.0	64.9
			20:00	67.0	68.3	66.7
			20:05	67.8	69.0	66.0
			20:10	68.2	69.7	65.6
			20:15	67.9	69.2	65.9
			20:20	67.8	69.4	65.5
			20:25	67.6	69.1	65.0
			20:30	67.3	69.1	65.4
			20:35	68.2	69.8	65.4
			20:40	67.6	69.7	65.3
			20:45	67.9	69.7	65.4
			20:50	67.1	68.4	65.3
			20:55	67.5	69.1	65.3
			21:00	67.6	69.6	65.2
			21:05	67.5	69.0	65.1
			21:10	67.7	69.3	65.7
			21:15	67.3	68.9	65.0
			21:20	67.3	69.0	65.1
			21:25	67.2	68.9	64.9
			21:30	67.2	68.9	65.1
			21:35	67.5	69.4	65.4
			21:40	67.4	69.7	65.0
			21:45	68.1	70.1	65.4
			21:50	67.1	68.7	65.0
			21:55	67.5	68.9	65.6
			22:00	66.8	68.5	64.9
			22:05	68.2	70.4	64.8
			22:10	67.3	69.1	65.0

			22:15	67.4	69.3	65.2
			22:20	67.5	69.3	65.2
			22:25	67.2	69.1	65.0
			22:30	67.2	68.8	65.3
			22:35	67.3	69.1	65.2
			22:40	67.2	69.0	65.2
			22:45	66.9	68.7	65.0
			22:50	66.7	68.2	64.6
			22:55	67.2	68.9	65.0
13/05/2011	Fine	<5	19:00	66.8	68.5	64.7
			19:05	66.0	67.0	64.6
			19:10	65.8	66.8	64.6
			19:15	66.2	66.7	64.6
			19:20	66.5	67.1	64.6
			19:25	66.2	66.9	64.7
			19:30	66.9	67.9	65.0
			19:35	66.5	67.8	64.8
			19:40	67.0	68.2	65.3
			19:45	67.0	68.1	66.4
			19:50	67.2	68.8	65.8
			19:55	67.1	68.7	65.8
			20:00	67.3	69.2	65.9
			20:05	67.3	69.1	66.7
			20:10	66.8	68.7	65.4
			20:15	66.9	68.6	66.1
			20:20	67.2	69.3	66.1
			20:25	67.0	69.0	66.4
			20:30	67.1	69.1	65.7
			20:35	67.5	69.0	65.9
			20:40	67.4	68.9	66.7
			20:45	67.4	68.8	65.6
			20:50	67.5	68.8	65.7
			20:55	66.8	69.3	65.1
			21:00	68.1	69.7	66.1
			21:05	68.3	69.9	66.0
			21:10	68.1	69.9	65.9
			21:15	68.0	69.8	66.1
			21:20	68.2	69.7	65.6
			21:25	67.9	69.1	66.0
			21:30	67.1	68.8	65.0
			21:35	67.6	69.5	65.5
			21:40	67.3	69.6	64.9
			21:45	67.5	68.9	65.6
			21:50	67.4	69.3	65.3
			21:55	67.5	69.3	65.2
			22:00	67.3	68.9	65.1

			22:05	67.3	68.8	65.3
			22:10	67.2	69.1	65.4
			22:15	67.2	68.9	65.0
			22:30	67.0	68.7	64.8
			22:35	66.9	68.7	64.9
			22:40	67.2	69.3	65.4
			22:45	67.3	69.2	65.3
			22:50	67.6	69.4	65.3
			22:55	67.6	69.4	65.2
14/05/2011	Fine	<5	19:00	63.7	65.3	61.8
			19:05	62.4	63.9	60.5
			19:10	63.5	65.0	61.6
			19:15	65.0	66.1	63.5
			19:20	64.0	65.6	61.8
			19:25	64.6	66.0	62.6
			19:30	64.4	65.8	62.9
			19:35	65.2	66.6	63.3
			19:40	65.6	67.2	63.6
			19:45	63.9	65.6	61.2
			19:50	64.8	66.3	63.0
			19:55	65.4	67.0	62.6
			20:00	64.8	66.5	62.7
			20:05	65.5	67.0	63.5
			20:10	63.5	65.1	61.6
			20:15	63.9	65.7	61.7
			20:20	64.3	66.2	62.1
			20:25	64.4	66.0	62.3
			20:30	65.0	67.0	62.4
			20:35	65.1	66.7	63.1
			20:40	64.5	66.0	62.8
			20:45	63.2	64.7	61.0
			20:50	64.9	66.7	62.3
			20:55	66.0	67.9	62.9
			21:00	65.0	66.7	62.7
			21:05	65.0	66.8	62.8
			21:10	64.5	66.4	62.0
			21:15	64.2	65.9	62.2
			21:20	62.6	64.2	60.6
			21:25	63.4	65.0	60.9
			21:30	65.3	67.0	63.0
			21:35	62.6	64.3	60.3
			21:40	64.4	66.0	62.2
			21:45	65.5	67.2	62.4
			21:50	64.5	66.0	62.5
			21:55	64.3	65.9	62.1
			22:00	64.1	65.6	61.6

			22:05	63.8	65.6	61.7
			22:10	63.8	65.5	61.4
			22:15	64.2	65.9	62.0
			22:20	63.4	65.4	61.1
			22:25	64.5	66.3	62.0
			22:30	63.1	64.5	61.0
			22:35	62.6	64.3	60.7
			22:40	64.2	66.1	62.2
			22:45	63.6	65.5	61.0
			22:50	63.9	65.7	61.6
			22:55	63.8	65.5	61.4
16/05/2011	Fine	<5	20:35	65.4	66.9	63.8
			20:40	66.3	67.8	64.4
			21:05	66.4	68.3	64.3
			21:10	66.2	67.7	64.3
			21:15	66.3	67.9	64.5
			21:20	66.4	68.1	64.2
			21:25	66.4	67.9	64.6
			21:30	65.9	67.6	63.9
			21:35	66.5	68.1	64.6
			21:40	66.5	68.1	64.3
			22:40	65.4	66.8	63.6
			22:45	65.4	67.3	63.2
			22:50	65.6	67.2	63.7
			22:55	65.0	66.8	63.0
17/05/2011	Fine	<5	20:45	68.0	68.3	65.2
			20:50	67.3	68.7	65.2
			20:55	67.4	69.4	65.1
			21:00	67.3	68.7	65.3
			21:05	67.3	68.9	65.1
			21:10	67.3	69.0	65.2
			21:15	67.4	69.1	65.3
			21:20	67.2	68.9	65.1
			21:25	67.8	69.6	65.0
			21:30	67.8	69.6	65.3
			21:35	67.4	68.8	65.1
			21:40	67.4	69.0	64.9
			21:45	67.2	68.5	65.6
			21:50	66.8	68.5	64.6
			21:55	66.9	68.5	64.3
			22:00	67.3	68.6	65.6
			22:05	67.3	69.2	64.3
			22:10	67.5	69.4	65.1
			22:15	66.7	68.7	64.5
			22:20	66.7	68.5	64.4
			22:25	66.8	68.7	64.2
			22:30	66.6	68.6	64.4

			22:35	66.8	68.5	64.6
			22:40	66.5	68.3	64.5
			22:45	67.0	68.9	64.6
			22:50	66.6	68.3	64.4
			22:55	66.5	68.4	64.3
18/05/2011	Fine	<5	19:00	68.1	69.4	66.1
			19:05	68.1	69.5	66.3
			19:10	68.3	70.2	65.7
			19:15	67.4	68.6	65.8
			19:20	67.8	69.6	65.7
			19:25	67.4	69.0	65.2
			19:30	68.0	69.6	66.1
			19:35	69.4	72.1	65.8
			19:40	69.1	69.8	65.3
			19:45	68.7	70.2	66.1
			19:50	67.0	69.5	65.5
			19:55	68.0	69.3	66.0
			20:00	67.6	69.0	65.4
			20:05	67.6	69.4	65.2
			20:10	67.5	69.3	65.4
			20:15	67.3	69.0	65.2
			20:20	67.7	69.3	65.7
			20:25	67.3	68.6	65.1
			20:30	67.4	69.2	64.8
			20:35	68.1	69.6	65.9
			20:40	67.2	68.8	65.2
			20:45	67.3	69.3	64.6
			20:50	67.2	68.8	65.3
			20:55	67.0	68.6	64.7
			21:00	67.5	69.4	65.2
			21:05	67.2	69.0	65.2
			21:10	68.1	69.6	65.4
			21:15	67.5	69.4	65.0
			21:20	68.6	71.5	65.2
			21:25	67.2	69.2	64.8
			21:30	66.7	68.0	64.9
			21:35	67.2	68.8	65.4
			21:40	67.2	69.0	65.1
			21:45	67.2	68.7	65.1
			21:50	66.7	68.3	64.9
			21:55	66.9	68.6	65.1
			22:00	67.1	68.6	64.8
			22:05	67.6	69.1	65.1
			22:10	67.3	68.9	65.1
			22:15	66.6	68.0	64.3
			22:20	67.2	69.0	64.6

			22:25	66.7	68.2	64.9
			22:30	66.5	67.9	64.8
			22:35	67.2	69.1	64.8
			22:40	66.9	68.7	64.5
			22:45	66.7	68.5	64.4
			22:50	66.7	68.4	64.1
			22:55	66.9	68.2	65.0
19/05/2011	Fine	<5	19:00	68.4	69.7	66.1
			19:05	68.3	69.7	66.0
			19:10	68.4	69.3	66.4
			19:15	68.5	69.5	66.3
			19:20	68.1	69.3	66.0
			19:25	68.0	69.2	66.1
			19:30	68.3	69.4	66.7
			19:35	68.4	69.7	66.7
			19:40	67.9	69.1	66.4
			19:45	68.1	69.0	66.5
			19:50	67.9	68.9	66.3
			19:55	68.0	69.5	66.3
			20:00	67.8	68.3	65.3
			20:05	67.1	68.7	65.3
			20:10	67.2	69.4	65.2
			20:15	67.1	68.7	65.4
			20:20	67.2	68.9	65.2
			20:25	67.1	68.8	65.3
			20:30	67.6	68.3	65.2
			20:35	67.2	68.6	65.3
			20:40	67.5	68.5	65.3
			20:45	67.4	68.6	65.2
			20:50	67.3	68.9	65.0
			20:55	67.0	69.0	65.1
			21:00	66.4	68.3	64.5
			21:05	66.2	68.1	64.3
			21:10	66.1	68.0	64.4
			21:15	66.2	67.8	64.4
			21:20	66.4	68.2	64.3
			21:25	66.3	68.4	64.5
			21:30	65.9	67.6	64.2
			21:35	66.3	68.0	64.2
			21:40	66.4	67.9	64.3
			21:45	66.1	68.3	64.7
			21:50	66.5	68.0	64.8
			21:55	66.4	68.1	64.9
			22:00	66.1	68.2	63.0
			22:05	66.4	68.5	64.1
			22:10	**66.4**	68.4	64.2

			22:15	66.7	68.7	64.1
			22:20	66.4	68.7	64.1
			22:25	66.5	68.5	64.3
			22:30	66.2	68.1	64.0
			22:35	66.3	68.4	64.2
			22:40	66.5	68.3	64.4
			22:45	66.5	68.6	64.3
			22:50	66.4	68.6	64.1
			22:55	66.6	68.5	64.5
20/05/2011	Fine	<5	19:00	67.1	68.7	65.1
			19:05	67.7	69.2	65.2
			19:10	67.6	69.1	65.5
			19:15	68.1	70.0	65.2
			19:20	67.0	68.6	65.2
			19:25	67.1	68.5	65.3
			19:30	67.0	68.2	65.3
			19:35	67.0	68.1	65.0
			19:40	67.0	68.5	64.8
			19:45	67.1	68.3	65.1
			19:50	67.3	68.2	65.4
			19:55	67.1	68.4	65.3
			20:00	68.6	69.8	65.6
			20:05	67.3	68.7	65.3
			20:10	68.7	69.3	65.1
			20:15	68.7	69.3	64.7
			20:20	67.0	68.4	64.8
			20:25	67.2	68.6	65.1
			20:30	68.4	69.8	65.8
			20:35	67.4	68.7	65.4
			20:40	67.7	69.4	64.8
			20:45	67.6	69.2	65.7
			20:50	67.5	69.0	65.3
			20:55	67.6	69.0	65.6
			21:00	67.3	68.9	65.4
			21:05	68.6	70.3	65.8
			21:10	67.1	68.7	65.4
			21:15	67.1	68.7	64.9
			21:20	67.5	69.1	65.2
			21:25	68.2	71.0	65.3
			21:30	66.7	68.0	65.0
			21:35	66.5	69.0	65.3
			21:40	66.3	67.6	65.1
			21:45	67.0	68.5	65.0
			21:50	67.3	68.9	65.3
			21:55	67.1	68.8	65.1
			22:00	67.8	69.6	65.8

			22:05	67.3	69.3	64.8
			22:10	67.3	68.7	65.4
			22:15	66.6	68.1	64.7
			22:20	67.0	68.4	65.5
			22:25	67.7	69.6	65.5
			22:30	67.2	69.4	64.6
			22:35	67.3	68.7	65.3
			22:40	67.0	68.4	65.3
			22:45	67.4	68.8	65.8
			22:50	67.5	69.1	65.4
			22:55	67.3	68.7	65.4
21/05/2011	Fine	<5	22:25	67.2	68.8	64.9
			22:30	67.0	68.5	65.3
			22:35	66.8	67.9	65.5
			22:40	66.6	68.3	64.8
			22:45	66.4	68.2	64.7
			22:50	66.8	67.8	65.3
			22:55	67.3	68.9	64.9
22/05/2011	Fine	<5	19:00	67.1	68.7	64.7
			19:05	67.0	68.4	65.2
			19:10	67.3	69.3	65.0
			19:15	66.4	68.2	64.6
			19:20	66.6	68.3	64.7
			19:25	66.6	67.6	65.3
			19:30	67.2	68.4	65.6
			19:35	66.9	68.4	65.3
			19:40	66.9	68.4	65.2
			19:45	66.6	68.3	65.0
			19:50	66.7	67.9	65.4
			19:55	67.1	68.5	65.3
			20:00	66.7	68.0	65.1
			20:05	67.2	68.7	65.4
			20:10	67.2	68.8	65.4
			20:15	67.9	69.4	66.0
			20:40	67.2	68.7	65.6
			20:45	67.3	68.9	65.5
			19:20	68.1	69.8	66.1
			19:31	69.3	70.8	65.6
			19:38	67.5	68.8	65.6
			19:45	67.2	68.5	65.7
			19:51	68.3	69.5	65.9
			19:56	68.5	69.9	66.7
			20:05	68.6	70.2	66.5
			20:11	67.9	69.3	66.1
			20:16	68.0	69.4	66.2
			20:21	67.8	69.2	66.2

23/05/2011	Fine	<5	20:22	68.2	69.7	65.9
			20:26	68.2	70.0	66.2
			20:30	68.4	70.1	66.2
			20:38	68.5	70.4	65.9
			20:48	67.9	69.5	66
			20:53	68.3	70.3	65.9
			20:59	68.3	69.7	66.3
			21:05	68.0	69.7	65.9
			21:10	68.1	69.6	66.1
			21:16	68.0	69.7	65.9
			21:22	67.8	69.8	65.6
			21:27	67.3	68.6	65.7
			21:34	67.3	68.7	65.5
			21:40	67.6	68.9	65.5
			21:45	67.8	69.4	66.0
			21:50	67.4	68.7	65.7
			21:56	67.7	69.1	65.8
			22:02	68.8	70.4	65.9
			22:07	70.2	70.8	69.5
			22:13	67.4	68.7	65.6
			22:19	68.9	70.0	66.6
			22:24	67.2	68.6	65.6
			22:30	70.4	72.3	66.5
			22:37	68.8	69.9	67.0
			22:43	68.8	69.8	66.8
			22:50	70.1	71.0	68.9
24/05/2011	Fine	<5	22:15	66.9	68.4	64.7
			22:20	66.6	67.8	65.0
			22:25	66.5	67.9	64.6
			22:30	67.0	68.8	64.8
			22:35	66.6	68.3	64.4
			22:40	66.6	68.2	64.8
			22:45	66.7	68.4	64.6
			22:50	66.3	68.0	64.0
			22:55	66.8	68.4	64.8
			19:30	66.7	68.6	64.8
			19:35	67.5	68.8	65.2
			19:40	67.0	68.5	65.1
			19:45	67.2	68.7	65.0
			19:50	67.3	69.4	65.2
			19:55	67.0	68.7	64.9
			20:00	68.2	70.3	65.5
			20:05	68.4	70.8	65.2
			20:10	66.9	68.8	64.9
			20:15	67.3	68.8	65.3
			20:20	67.0	68.7	64.7

25/05/2011	Fine	<5	20:25	66.7	68.0	64.9
			20:30	66.0	68.1	65.8
			20:35	65.4	67.6	63.5
			20:40	66.6	68.7	66.5
			20:45	65.5	67.5	64.8
			20:50	65.4	67.5	65.3
			20:55	66.1	68.6	65.8
			21:00	66.3	68.7	66.1
			21:05	65.6	67.8	64.9
			21:10	65.6	67.6	64.3
			21:15	66.0	68.1	64.8
			21:20	65.4	67.7	65.4
			21:25	65.8	67.9	65.4
			21:30	65.4	67.4	65.1
			21:35	65.4	67.6	65.2
			21:40	64.3	66.3	63.4
			21:45	65.8	68.1	65.2
			21:50	65.9	68.5	64.8
			21:55	66.1	68.4	65.6
			22:00	65.5	68.3	64.1
			22:05	65.5	67.8	64.9

Average	67.0	dB(A)
Max	70.4	dB(A)
Min	62.4	dB(A)

Noise Monitoring Station: M4b - Victoria Centre

Monitoring Time Period: Normal Weekday between 2300 and 0700 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
12/05/2011	Fine	<5	23:00	65.3	66.9	63.1
			23:05	65.0	66.6	63.0
			23:10	64.9	66.7	62.8
			23:15	66.1	68.2	63.8
			23:20	65.8	67.4	63.7
			23:25	65.6	67.7	63.0
			23:30	65.0	66.9	62.3
			23:35	65.0	66.7	62.0
			23:40	64.9	67.0	62.1
			23:45	65.3	67.1	62.3
			23:50	64.9	66.9	62.6
			23:55	64.9	66.9	62.4
13/05/2011	Fine	<5	23:00	65.0	66.7	62.3
			23:05	65.0	66.7	62.0
			23:10	64.9	66.5	62.1
			23:15	64.8	66.3	62.3
			23:20	65.3	66.9	62.7
			23:25	65.0	66.7	62.2
			23:30	65.0	66.8	63.41
			23:35	64.9	66.3	63.0
			23:40	64.7	66.4	63.1
			23:45	64.3	66.0	62.8
			23:50	65.0	66.9	63.6
			23:55	64.5	66.3	62.7
16/05/2011	Fine	<5	23:00	65.9	67.7	63.5
			23:05	64.5	65.8	62.6
			23:10	65.3	67.7	62.9
			23:15	65.3	66.9	62.8
			23:20	65.2	67.3	62.8
			23:25	65.0	67.0	62.7
			23:30	65.4	67.4	63.3
			23:35	65.6	67.5	63.5
			23:40	66.5	68.1	64.6
			23:45	66.4	68.0	64.4
			23:50	65.5	67.0	63.3
			23:55	65.6	67.4	63.9
			23:00	66.7	68.4	64.6
			23:05	66.4	68.2	64.4
			23:10	66.8	68.5	64.6

17/05/2011	Fine	<5	23:15	66.2	68.1	63.9
			23:20	66.5	68.4	64.1
			23:25	66.5	68.5	64.3
			23:30	66.7	68.6	64.2
			23:35	66.4	68.6	64.0
			23:40	66.6	68.5	64.2
			23:45	66.3	68.2	64.0
			23:50	66.5	68.3	64.1
			23:55	66.4	68.5	64.1
18/05/2011	Fine	<5	23:00	66.4	68.0	64.6
			23:05	66.8	68.3	64.5
			23:10	66.4	68.1	64.3
			23:15	67.1	68.8	65.0
			23:20	66.8	68.8	64.1
			23:25	66.5	67.8	64.8
			23:30	66.5	68.1	64.5
			23:35	66.3	67.9	64.1
			23:40	66.6	68.3	64.5
			23:45	66.4	67.8	64.8
			23:50	66.7	68.3	64.5
			23:55	66.4	68.1	64.3
19/05/2011	Fine	<5	23:00	66.2	68.2	64.0
			23:05	66.3	68.1	64.2
			23:10	66.4	68.0	64.2
			23:15	66.5	68.1	64.4
			23:20	66.5	68.1	64.6
			23:25	66.4	68.0	64.3
			23:30	66.4	68.9	64.6
			23:35	66.0	68.3	64.4
			23:40	66.1	68.3	64.6
			23:45	66.2	68.2	64.5
			23:50	66.3	68.4	64.7
			23:55	66.0	67.9	64.3
20/05/2011	Fine	<5	23:00	65.0	66.3	63.2
			23:05	65.1	66.9	63.1
			23:10	64.9	66.1	63.1
			23:15	65.2	66.9	62.8
			23:20	65.1	66.9	62.6
			23:25	64.9	66.6	62.6
			23:30	65.0	66.3	63.0
			23:35	64.7	66.1	62.9
			23:40	65.0	66.7	62.8
			23:45	64.6	66.0	62.7
			23:50	64.8	66.3	62.8
			23:55	65.0	66.5	63.0
			23:00	65.0	66.6	62.8

21/05/2011	Fine	<5	23:05	64.8	66.4	62.8
			23:10	65.3	67.1	63.2
			23:15	66.9	69.0	64.6
			23:20	65.1	66.7	63.0
			23:25	64.6	66.3	63.1
			23:30	65.2	66.5	63.6
			23:35	64.8	66.2	63.4
			23:40	64.9	66.4	63.2
			23:45	64.9	66.4	63.3
			23:50	65.1	66.6	64.5
			23:55	65.2	67.2	62.7
23/05/2011	Fine	<5	23:00	66.5	67.5	63.6
			23:05	66.0	68.2	63.6
			23:11	66.4	68.4	63.8
			23:16	65.1	66.8	63.0
			23:23	65.6	67.3	63.4
			23:28	66.2	68.1	63.4
			23:35	66.5	67.6	63.5
			23:41	66.5	68.0	63.4
			23:46	66.4	67.3	63.4
			23:51	66.2	67.5	64.0
			23:57	65.3	67.0	63.0
			00:02	65.5	66.8	63.4
24/05/2011	Fine	<5	23:00	66.7	68.4	64.6
			23:05	66.4	68.1	64.7
			23:10	66.3	68.3	63.2
			23:15	66.7	68.4	64.8
			23:20	66.3	67.9	64.7
			23:25	66.7	68.5	64.4
			23:30	65.9	67.6	64.0
			23:35	66.6	68.2	64.6
			23:40	66.5	68.3	64.4
			23:45	66.2	68.1	64.0
			23:50	66.2	68.1	63.9
			23:55	65.3	66.9	63.8
25/05/2011	Fine	<5	23:00	66.7	69.1	63.3
			23:05	66.3	68.3	63.2
			23:10	66.7	69.0	64.0
			23:15	66.9	69.6	63.5
			23:20	66.3	68.8	63.0
			23:25	66.5	68.6	63.2
			23:30	65.6	67.5	62.9
			23:35	65.1	66.8	62.1
			23:40	65.0	67.1	62.2
			23:45	65.2	67.0	62.2
			23:50	65.2	67.2	62.9

			23:55	65.5	67.5	63.0

Average	65.8	dB(A)
Max	67.1	dB(A)
Min	64.3	dB(A)

Noise Monitoring Station: M5b - City Garden

Monitoring Time Period: Normal Weekday between 0700 and 1900 hrs without any construction works near monitoring station

			30-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
26/04/2011	Fine	<5	12:00	67.8	68.0	65.8
			12:30	66.7	67.7	66.3
27/04/2011	Fine	<5	12:00	66.4	67.3	65.1
			12:30	66.3	67.1	64.5
28/04/2011	Fine	<5	12:00	67.3	69.7	65.4
			12:30	67.0	69.4	65.2
29/04/2011	Fine	<5	12:00	69.2	70.0	68.1
			12:30	69.4	70.2	68.3
30/04/2011	Fine	<5	12:00	67.1	69.4	65.2
			12:30	66.9	69.5	65.4
05/05/2011	Fine	<5	12:00	69.5	70.4	68.2
			12:30	69.6	70.1	68.2
06/05/2011	Fine	<5	12:00	69.1	69.8	68.3
			12:30	68.7	69.5	67.4
07/05/2011	Fine	<5	12:00	66.7	68.9	65.3
			12:30	66.5	68.2	65.0
09/05/2011	Fine	<5	12:00	69.4	70.1	68.2
			12:30	69.0	69.7	68.2
11/05/2011	Fine	<5	12:00	67.2	68.9	66.7
			12:30	67.5	68.4	66.3

Average	68.0	dB(A)
Max	69.6	dB(A)
Min	66.3	dB(A)

Noise Monitoring Station: M5b - City Garden

Monitoring Time Period: Normal Weekday between 1900 and 2300 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
26/04/2011	Fine	<5	20:20	65.7	67.3	63.7
			20:25	65.5	67.3	63.5
			20:30	65.6	67.9	63.4
			20:35	65.7	67.2	63.5
			20:40	65.7	67.2	63.7
			20:45	65.2	67.5	63.1
			20:50	66.2	67.7	63.4
			20:55	64.8	66.8	64.0
			21:00	65.6	66.5	64.5
			21:05	65.4	65.8	63.5
			21:10	65.7	66.7	64.5
			21:15	65.2	66.2	63.7
			21:20	65.5	66.7	64.1
			21:25	65.8	66.7	64.6
			21:30	66.4	67.2	65.3
			21:35	66.1	67.1	64.9
			21:40	65.3	66.2	64.3
			21:45	66.0	67.1	64.6
			21:50	65.4	66.4	64.3
			21:55	65.9	66.9	64.7
			22:00	66.5	67.1	64.5
			22:05	66.0	66.9	64.8
			22:10	65.3	66.0	64.1
			22:15	65.6	66.6	64.5
			22:20	65.8	66.6	64.6
			22:25	65.6	66.8	64.2
			22:30	65.7	66.5	63.9
			22:35	65.5	66.4	64.1
			22:40	66.2	67.2	65.1
			22:45	66.0	67.1	64.9
			22:50	66.1	67.1	65.1
			22:55	65.7	66.9	64.2
			20:30	66.3	67.9	65.1
			20:35	66.5	67.4	65.1
			20:40	66.3	67.1	65.2
			20:45	66.1	66.9	65.1
			20:50	66.5	67.3	65.6
			20:55	66.2	66.9	65.2
			21:00	66.2	66.7	65.2

27/04/2011	Fine	<5	21:05	66.7	68.0	65.1
			21:10	66.4	67.6	65.3
			21:15	66.3	67.3	65.2
			21:20	66.0	66.8	65.1
			21:25	67.0	67.8	66.1
			21:30	66.7	67.1	64.9
			21:35	66.0	66.8	65.0
			21:40	66.2	67.5	64.9
			21:45	66.6	67.3	65.8
			21:50	66.5	67.5	65.2
			21:55	66.2	66.9	65.3
			22:00	66.4	67.7	65.0
			22:05	66.2	67.1	64.8
			22:10	65.7	66.6	64.2
			22:15	66.1	66.8	65.0
			22:20	66.5	67.1	65.3
			22:25	66.0	67.1	65.0
			22:30	66.0	66.5	65.1
			22:35	65.9	66.8	65.1
			22:40	66.5	67.5	64.4
			22:45	66.4	67.5	65.2
			22:50	66.9	67.4	65.8
			22:55	66.4	67.6	64.8
28/04/2011	Fine	<5	20:25	66.1	66.7	65.0
			20:30	66.5	66.8	65.5
			20:35	66.7	67.1	65.6
			20:40	66.2	67.6	65.2
			20:45	66.4	68.3	65.0
			20:50	66.6	68.5	65.4
			20:55	66.7	67.3	66.0
			21:00	70.4	72.1	68.2
			21:05	66.2	68.0	63.8
			21:10	66.5	67.1	66.1
			21:15	66.3	66.8	65.5
			21:20	66.4	67.1	65.6
			21:25	66.9	67.5	65.9
			21:30	66.5	67.1	65.7
			21:35	66.6	67.3	65.9
			21:40	66.7	67.8	65.9
			21:45	66.4	67.1	65.6
			21:50	66.3	66.9	65.6
			21:55	66.3	67.0	65.6
			22:00	66.5	67.1	65.7
			22:05	66.8	67.5	66.0
			22:10	66.8	67.6	65.8
			22:15	66.6	67.3	65.8

			22:20	66.2	66.9	65.2
			22:25	66.3	67.3	65.5
			22:30	66.6	67.9	65.4
			22:35	66.8	68.2	65.3
			22:40	66.6	67.2	65.3
			22:45	66.1	67.0	65.6
			22:50	66.2	67.1	65.2
			22:55	66.2	67.2	65.3
29/04/2011	Fine	<5	19:15	66.5	67.2	65.4
			19:20	66.4	67.1	65.5
			19:25	66.2	67.3	65.0
			19:30	66.5	67.2	65.7
			19:35	66.2	66.9	65.3
			19:40	66.7	67.3	65.9
			19:45	66.1	66.7	65.2
			19:50	66.3	66.9	65.2
			19:55	66.8	67.5	65.8
			20:00	66.2	66.9	65.3
			20:05	66.4	67.0	65.2
			20:10	66.9	67.6	66.1
			20:15	66.4	67.4	65.2
			20:20	66.8	67.3	66.1
			20:25	66.9	67.5	66.1
			20:30	66.8	67.4	66.0
			20:35	66.6	67.2	65.9
			20:40	66.2	67.0	65.0
			20:45	66.7	67.2	65.9
			20:50	66.6	67.2	65.8
			20:55	66.8	67.2	66.0
			21:00	66.6	67.2	65.8
			21:05	66.3	66.9	65.0
			21:10	66.6	66.9	65.7
			21:15	66.7	67.2	66.0
			21:20	66.8	67.5	65.7
			21:25	66.9	67.8	65.9
			21:30	66.6	68.1	64.9
			21:35	66.6	67.3	65.7
			21:40	66.5	67.3	65.6
			21:45	66.5	67.2	65.5
			21:50	66.4	67.1	65.5
			21:55	66.7	67.4	65.5
			22:00	66.4	67.0	65.6
			22:05	66.4	66.9	65.6
			22:10	66.3	67.0	65.5
			22:15	66.3	67.0	65.6
			22:20	66.5	67.1	65.8

			22:25	66.3	67.0	65.5
			22:30	66.7	67.4	65.7
			22:35	66.3	66.9	65.6
			22:40	66.5	67.0	65.7
			22:45	66.0	67.1	65.7
			22:50	67.0	67.9	65.4
			22:55	66.2	66.7	65.4
30/04/2011	Fine	<5	19:30	66.4	66.9	65.4
			19:35	66.8	67.8	65.5
			19:40	66.6	67.4	65.4
			19:45	66.6	67.5	65.6
			19:50	66.2	66.5	65.2
			19:55	66.7	67.6	65.7
			20:00	66.5	67.4	65.7
			20:05	66.7	67.4	65.8
			20:10	66.7	67.5	65.7
			20:15	66.4	66.9	65.5
			20:20	66.3	67.0	65.4
			20:25	66.4	67.3	65.5
			20:30	66.2	67.0	65.2
			20:35	66.1	66.6	65.2
			20:40	66.5	67.4	65.3
			20:45	66.8	67.6	65.4
			20:50	66.4	67.3	65.4
			20:55	66.3	67.4	65.1
			21:00	66.0	66.7	65.2
			21:05	66.1	66.9	65.9
			21:10	66.5	67.3	65.9
			21:15	66.9	67.6	65.9
			21:20	66.7	67.5	65.8
			21:25	66.1	66.7	65.2
			21:30	66.3	66.7	65.6
			21:35	66.3	66.7	65.2
			21:40	66.5	67.2	65.1
			21:45	66.8	67.8	65.5
			21:50	66.5	67.1	65.8
			21:55	66.2	66.8	65.3
			22:00	66.5	67.0	65.3
			22:05	66.2	66.8	65.4
			22:10	66.6	67.2	65.4
			22:15	66.1	66.7	65.3
			22:20	66.2	66.6	65.4
			22:25	66.4	67.2	65.6
			22:30	66.5	67.2	65.7
			22:35	66.7	67.4	65.8
			22:40	66.8	67.4	65.9

			22:45	66.2	67.0	65.4
			22:50	66.6	67.6	65.6
			22:55	66.5	67.3	65.5
01/05/2011	Fine	<5	19:05	67.1	67.7	66.3
			19:10	66.4	67.3	65.8
			19:15	66.8	67.7	65.9
			19:20	66.2	67.0	65.3
			19:25	67.0	67.6	66.3
			19:30	66.5	67.4	65.8
			19:35	66.2	67.1	65.1
			19:40	67.0	67.8	66.1
			19:45	66.5	67.8	65.6
			19:50	67.0	67.8	66.1
			19:55	66.8	67.4	66.2
			20:00	66.9	67.6	66.0
			20:05	66.7	67.2	66.0
			20:10	66.9	67.6	65.8
			20:15	66.9	67.5	66.0
			20:20	66.4	67.2	65.4
			20:25	67.0	67.7	66.0
			20:30	66.9	67.4	66.1
			20:35	67.0	67.6	66.1
			20:40	66.3	67.3	65.2
			20:45	66.9	67.6	66.0
			20:50	67.1	68.0	66.1
			20:55	66.7	67.4	65.4
			21:00	67.0	67.4	66.0
			21:05	66.8	67.8	65.9
			21:10	67.1	67.6	66.3
			21:15	66.9	67.6	66.1
			21:20	66.5	68.5	65.8
			21:25	67.4	68.3	66.2
			21:30	66.7	67.6	65.9
			21:35	67.0	67.9	66.0
			21:40	66.8	68.7	65.8
			21:45	67.0	67.9	66.0
			21:50	66.6	67.2	65.2
			21:55	66.7	68.3	65.9
			22:00	67.2	68.0	66.2
			22:05	66.7	67.3	66.0
			22:10	67.1	67.4	67.0
			22:15	66.5	67.4	65.9
			22:20	66.9	67.5	65.4
			22:25	66.8	67.4	66.0
			22:30	66.7	67.4	65.9
			22:35	66.8	67.4	66.1

			22:40	67.0	67.7	66.1
			22:45	66.4	67.0	65.8
			22:50	67.0	67.5	66.0
			22:55	66.6	67.1	65.8
02/05/2011	Fine	<5	19:05	66.3	66.4	65.2
			19:10	66.7	67.8	65.4
			19:15	66.5	67.7	65.6
			19:20	66.5	67.9	65.5
			19:25	66.4	67.2	65.3
			19:30	66.3	67.2	65.2
			19:35	66.5	67.2	65.6
			19:40	66.9	67.5	66.0
			19:45	66.8	67.5	66.0
			19:50	66.9	67.6	65.8
			19:55	66.8	67.4	66.0
			20:00	66.2	66.9	65.1
			20:05	66.1	66.6	65.1
			20:10	66.8	67.5	65.9
			20:15	66.8	67.4	66.0
			20:20	66.7	67.3	66.0
			20:25	66.5	67.2	65.5
			20:30	66.9	67.5	65.1
			20:35	66.9	67.5	66.1
			20:40	66.3	67.3	65.1
			20:45	66.3	67.2	65.2
			20:50	67.2	68.6	65.6
			20:55	66.5	67.1	65.4
			21:00	66.2	67.0	65.2
			21:05	66.4	68.6	65.4
			21:10	66.8	67.8	65.9
			21:15	67.1	67.7	66.3
			21:20	66.9	67.0	65.8
			21:25	66.5	68.5	65.8
			21:30	66.4	68.5	65.8
			21:35	66.5	68.3	65.9
			21:40	66.3	68.6	65.2
			21:45	67.0	68.9	65.7
			21:50	66.2	68.5	65.4
			21:55	66.6	68.7	65.6
			22:00	66.8	68.7	65.8
			22:05	66.7	67.2	66.0
			22:10	66.6	67.3	65.9
			22:15	66.8	67.5	66.0
			22:20	66.4	66.9	65.8
			22:25	66.6	67.2	65.8
			22:30	66.7	67.4	65.9

			22:35	66.5	67.1	65.8
			22:40	66.7	67.3	66.0
			22:45	66.8	67.3	66.2
			22:50	66.6	67.2	65.9
			22:55	67.1	67.9	66.2
05/05/2011	Fine	<5	19:00	66.8	67.3	65.8
			19:05	67.0	67.6	66.2
			19:10	66.8	67.2	66.1
			19:15	67.5	68.7	66.3
			19:20	67.0	67.5	66.3
			19:25	66.9	67.5	66.1
			19:30	67.0	68.0	66.0
			19:35	67.4	68.5	66.1
			19:40	66.9	68.0	65.5
			19:45	66.8	67.3	66.1
			19:50	66.9	67.3	66.3
			19:55	67.2	68.2	66.2
			20:00	67.2	67.6	66.1
			20:05	67.0	67.8	66.1
			20:10	67.2	68.6	66.4
			20:15	67.2	68.2	66.7
			20:20	67.3	68.5	66.9
			20:25	67.7	68.7	66.6
			20:30	66.6	67.3	65.6
			20:35	66.8	67.6	65.8
			20:40	67.8	68.7	66.8
			20:45	67.2	68.2	66.1
			20:50	67.0	68.1	66.0
			20:55	66.9	67.5	65.8
			21:00	67.5	68.3	66.6
			21:05	67.4	68.2	66.5
			21:10	67.5	68.1	66.7
			21:15	67.4	68.3	66.4
			21:20	67.7	68.6	66.5
			21:25	66.9	67.4	66.2
			21:30	67.0	67.7	66.2
			21:35	66.9	67.9	66.0
			21:40	66.7	67.4	65.8
			21:45	66.7	67.3	65.9
			21:50	66.8	67.4	65.9
			21:55	66.5	67.1	65.9
			22:00	67.6	68.2	66.8
			22:05	67.7	68.3	66.9
			22:10	67.0	67.8	66.0
			22:15	66.9	67.9	65.8
			22:20	67.5	68.4	66.7

			22:25	67.8	68.3	66.0
			22:30	67.6	67.9	66.7
			22:35	67.7	68.4	66.8
			22:40	67.5	68.1	66.8
			22:45	66.3	66.9	65.7
			22:50	66.9	67.9	65.8
			22:55	67.3	68.0	66.5
06/05/2011	Fine	<5	19:00	67.5	68.2	66.8
			19:05	66.9	67.6	66.1
			19:10	66.9	67.6	66.1
			19:15	67.0	67.9	66.3
			19:20	67.4	68.2	66.6
			19:25	67.7	68.6	66.5
			19:30	67.4	68.3	66.5
			19:35	67.6	68.3	66.8
			19:40	66.9	67.9	65.8
			19:45	67.5	68.1	66.8
			19:50	67.7	68.7	66.6
			19:55	67.3	68.5	66.9
			20:00	66.6	67.5	65.5
			20:05	67.0	67.5	66.0
			20:10	67.8	68.5	66.7
			20:15	67.4	68.1	66.7
			20:20	67.7	68.3	66.9
			20:25	67.5	68.3	66.6
			20:30	67.6	68.1	66.9
			20:35	67.4	68.1	66.7
			20:40	67.5	68.2	66.7
			20:45	67.3	68.0	66.5
			20:50	67.4	68.0	66.6
			20:55	67.3	68.0	66.5
			21:00	67.4	67.9	66.5
			21:05	67.3	67.9	66.5
			21:10	67.3	68.7	66.1
			21:15	67.3	68.6	65.9
			21:20	67.3	67.8	66.6
			21:25	67.7	68.4	66.8
			21:30	67.5	68.0	66.7
			21:35	67.7	68.2	67.0
			21:40	67.8	68.6	66.8
			21:45	67.1	67.9	66.2
			21:50	67.4	68.3	66.4
			21:55	67.2	68.0	66.3
			22:00	67.8	69.0	66.3
			22:05	67.9	68.9	66.5
			22:10	67.6	68.5	66.5

			22:15	67.1	67.8	66.2
			22:20	67.0	67.9	66.0
			22:25	67.5	68.6	66.2
			22:30	67.4	68.4	66.1
			22:35	67.3	68.1	66.1
			22:40	67.3	68.2	66.2
			22:45	67.0	67.7	66.0
			22:50	66.5	67.0	65.7
			22:55	66.5	67.2	65.7
07/05/2011	Fine	<5	19:00	67.5	68.0	66.8
			19:05	67.8	68.4	67.0
			19:10	67.8	68.4	67.0
			19:15	67.9	68.5	67.1
			19:20	67.6	68.3	66.8
			19:25	67.7	68.2	66.8
			19:30	67.8	68.2	67.1
			19:35	67.2	68.2	66.1
			19:40	67.9	68.9	66.9
			19:45	67.1	68.0	66.1
			19:50	67.9	69.0	66.8
			19:55	67.9	68.8	67.0
			20:00	67.6	68.1	66.8
			20:05	67.7	68.3	66.9
			20:10	67.9	69.0	66.9
			20:15	67.3	68.0	66.5
			20:20	67.5	68.0	66.7
			20:25	67.8	68.2	66.9
			20:30	67.6	68.3	66.7
			20:35	71.2	71.4	68.0
			20:40	67.6	68.3	66.8
			20:45	67.5	68.2	66.7
			20:50	67.7	68.5	66.7
			20:55	67.8	68.5	66.8
			21:00	67.5	68.2	66.7
			21:05	68.5	69.9	66.8
			21:10	68.2	69.7	66.9
			21:15	67.6	68.3	66.8
			21:20	67.4	67.8	66.7
			21:25	67.4	67.9	66.8
			21:30	67.6	68.2	66.6
			21:35	67.5	67.9	66.9
			21:40	67.7	68.5	66.9
			21:45	67.9	68.3	66.7
			21:50	67.7	68.0	66.8
			21:55	67.5	68.0	66.8
			22:00	67.0	68.0	66.8

			22:05	67.7	68.2	66.9
			22:10	67.7	68.4	66.9
			22:15	67.5	68.2	66.7
			22:20	67.7	68.2	66.9
			22:25	67.6	68.2	66.9
			22:30	67.6	68.2	67.0
			22:35	67.8	68.3	67.1
			22:40	67.7	68.2	67.0
			22:45	67.6	68.3	66.8
			22:50	67.7	68.3	67.0
			22:55	67.5	67.9	66.5
08/05/2011	Fine	<5	19:00	67.2	68.7	66.5
			19:05	67.9	68.9	66.4
			19:10	67.9	68.9	66.4
			19:15	67.5	68.1	66.6
			19:20	67.7	68.4	66.6
			19:25	67.3	67.9	66.6
			19:30	67.4	68.3	66.7
			19:35	67.5	68.0	66.8
			19:40	67.3	67.9	66.7
			19:45	67.2	67.7	66.2
			19:50	67.5	68.1	66.6
			19:55	67.9	68.5	66.7
			20:00	67.4	68.0	66.5
			20:05	67.7	68.4	66.7
			20:10	67.1	67.9	66.8
			20:15	67.8	68.4	66.8
			20:20	67.5	68.3	66.6
			20:25	67.2	67.7	66.5
			20:30	67.7	68.3	66.6
			20:35	67.2	67.6	66.4
			20:40	67.2	67.6	66.5
			20:45	67.5	67.9	66.7
			20:50	67.8	68.4	67.0
			20:55	67.6	68.2	66.6
			21:00	67.4	68.0	66.6
			21:05	67.6	68.4	66.5
			21:10	67.9	68.7	66.8
			21:15	67.5	68.4	66.6
			21:20	67.3	67.8	66.5
			21:25	67.2	67.9	66.5
			21:30	67.3	67.9	66.4
			21:35	67.1	67.5	66.4
			21:40	67.0	67.4	66.4
			21:45	67.2	67.8	66.4
			21:50	67.7	68.4	66.6

			21:55	67.4	68.2	66.5
			22:00	67.6	68.6	66.5
			22:05	67.5	68.4	66.5
			22:10	67.6	68.6	66.6
			22:15	67.3	68.0	66.4
			22:20	67.9	69.0	66.8
			22:25	67.9	68.6	66.8
			22:30	67.7	68.5	66.7
			22:35	67.5	68.3	66.7
			22:40	67.6	68.6	66.6
			22:45	67.9	68.9	66.8
			22:50	68.0	69.0	67.0
			22:55	69.6	70.3	66.9
09/05/2011	Fine	<5	19:00	67.9	68.4	67.2
			19:05	67.7	68.5	66.8
			19:10	67.7	68.5	66.8
			19:15	67.2	68.2	66.6
			19:20	68.8	69.9	67.5
			19:25	68.5	69.4	67.2
			19:30	67.3	68.2	66.3
			19:35	67.6	68.6	66.5
			19:40	67.3	68.8	66.4
			19:45	67.9	68.9	66.6
			19:50	67.6	68.6	67.0
			19:55	67.9	69.0	66.8
			20:00	68.0	68.6	66.9
			20:05	67.5	68.1	66.8
			20:10	67.7	67.9	66.6
			20:15	67.6	68.3	66.8
			20:20	67.9	68.3	67.2
			20:25	67.8	68.2	66.9
			20:30	67.7	68.3	67
			20:35	67.4	68.0	66.7
			20:40	67.2	68.1	66.4
			20:45	68.0	69.0	66.9
			20:50	67.4	68.0	66.7
			20:55	67.4	68.1	66.7
			21:00	68.0	68.5	66.5
			21:05	67.1	67.8	66.3
			21:10	67.4	67.9	66.5
			21:15	67.2	67.7	66.4
			21:20	67.6	68.3	66.8
			21:25	67.5	67.9	66.5
			21:30	67.3	68.0	66.4
			21:35	68.5	68.6	67.2
			21:40	67.5	68.2	66.4

			21:45	67.4	67.9	66.5
			21:50	67.1	67.7	66.2
			21:55	67.5	68.3	66.5
			22:00	67.2	67.9	66.5
			22:05	68.3	69.7	66.7
			22:10	67.3	67.9	66.5
			22:15	67.4	68.2	66.5
			22:20	67.3	67.8	66.5
			22:25	67.5	68.1	66.9
			22:30	67.6	68.0	66.6
			22:35	67.3	67.8	66.6
			22:40	67.1	67.6	66.4
			22:45	67.3	67.9	66.5
			22:50	67.4	68.0	66.5
			22:55	67.9	69.3	66.6
10/05/2011	Fine	<5	19:00	67.9	68.4	64.0
			19:05	67.5	68.1	66.7
			19:10	67.5	68.1	66.7
			19:15	67.7	68.5	67.0
			19:20	67.6	68.1	66.8
			19:25	68.1	68.4	66.8
			19:30	67.5	67.9	66.7
			19:35	67.4	68.1	66.7
			19:40	67.5	68.1	66.7
			19:45	67.5	67.9	66.8
			19:50	67.2	67.8	66.7
			19:55	67.6	68.2	66.7
			20:00	67.5	68.3	66.6
			20:05	67.4	68.0	66.5
			20:10	67.7	68.5	67.0
			20:15	67.5	67.9	66.5
			20:20	68.0	68.4	66.5
			20:25	67.4	67.8	66.6
			20:30	67.3	68.1	66.9
			20:35	67.5	68.5	66.4
			20:40	67.9	69.0	66.7
			20:45	67.1	67.5	66.6
			20:50	67.1	67.5	66.5
			20:55	67.9	68.3	67.0
			21:00	67.6	67.7	66.5
			21:05	67.1	67.6	66.5
			21:10	67.2	68.0	66.5
			21:15	67.1	67.5	66.4
			21:20	67.8	68.2	66.8
			21:25	67.2	67.7	66.4
			21:30	67.7	68.0	66.9

			21:35	67.8	68.4	67.0
			21:40	67.6	68.4	66.8
			21:45	67.9	68.5	67.1
			21:50	68.9	69.9	67.1
			21:55	67.7	68.3	66.9
			22:00	67.7	68.2	67.1
			22:05	67.6	68.2	66.9
			22:10	67.6	68.1	66.9
			22:15	67.5	68.2	66.6
			22:20	67.6	68.1	66.8
			22:25	67.5	68.0	66.8
			22:30	67.6	68.1	66.9
			22:35	68.0	68.6	67.1
			22:40	67.6	68.3	66.8
			22:45	67.7	68.3	66.7
			22:50	67.7	68.2	66.9
			22:55	67.7	68.2	67.0
11/05/2011	Fine	<5	19:00	67.9	68.5	67.0
			19:05	68.0	68.8	67.1
			19:10	68.0	68.8	67.1
			19:15	68.1	68.7	67.2
			19:20	68.4	69.4	67.4
			19:25	68.9	69.6	68.0
			19:30	68.7	69.6	67.9
			19:35	68.1	69.5	66.7
			19:40	67.9	68.4	66.9
			19:45	68.1	69.3	66.8
			19:50	67.9	68.1	66.5
			19:55	67.6	68.7	66.5
			20:00	67.5	68.3	66.7
			20:05	67.4	67.6	66.2
			20:10	67.9	68.6	67.0
			20:15	67.3	67.9	66.2
			20:20	67.9	68.5	67.0
			20:25	68.2	68.7	67.2
			20:30	68.2	68.8	67.2
			20:35	68.0	68.6	67.2
			20:40	68.2	69.0	67.1
			20:45	67.9	68.5	67.0
			20:50	68.0	68.9	67.1
			20:55	68.4	69.0	67.4
			21:00	68.2	68.8	67.6
			21:05	68.4	69.0	67.7
			21:10	68.6	69.2	67.8
			21:15	68.4	69.1	67.4
			21:20	68.2	68.8	67.5

			21:25	68.2	68.7	67.4
			21:30	68.7	69.3	67.7
			21:35	68.8	69.4	68.0
			21:40	68.6	69.4	67.7
			21:45	68.3	68.7	67.6
			21:50	68.4	69.1	67.7
			21:55	68.5	69.2	67.7
			22:00	68.4	69.0	67.6
			22:05	68.2	68.6	67.6
			22:10	68.3	68.9	67.5
			22:15	68.2	68.8	67.5
			22:20	68.5	69.1	67.8
			22:25	68.6	69.8	67.5
			22:30	68.6	69.2	67.8
			22:35	68.4	69.4	67.4
			22:40	68.5	69.1	67.8
			22:45	68.2	68.7	67.5
			22:50	68.6	69.3	67.8
			22:55	68.2	68.7	67.5

Average	67.2	dB(A)
Max	71.2	dB(A)
Min	64.8	dB(A)

Noise Monitoring Station: M5b - City Garden

Monitoring Time Period: Normal Weekday between 2300 and 0700 hrs without any construction works near monitoring station

			5-min measurement, dB(A)			
Date	Weather	Wind Speed(m/s)	Start time	Leq	L10	L90
26/04/2011	Fine	<5	23:00	65.4	66.4	64.2
			23:05	65.9	67.0	64.3
			23:10	66.1	67.7	64.4
			23:15	65.7	66.7	63.3
			23:20	65.7	66.6	64.2
			23:25	65.6	66.6	64.3
			23:30	65.7	66.9	64.4
			23:35	66.4	67.6	65.1
			23:40	66.2	67.1	64.9
			23:45	66.3	67.2	65.2
			23:50	66.0	67.1	64.9
			23:55	67.1	68.0	64.6
			00:00	66.1	67.4	64.3
27/04/2011	Fine	<5	23:00	66.9	67.6	65.9
			23:05	67.0	67.7	66.0
			23:10	66.6	67.8	65.6
			23:15	66.8	67.5	66.1
			23:20	66.7	67.5	65.8
			23:25	66.3	67.0	65.1
			23:30	65.9	67.2	64.7
			23:35	66.5	67.3	65.6
			23:40	66.5	67.2	65.6
			23:45	66.2	67.3	65.3
			23:50	66.3	67.5	64.9
			23:55	66.7	67.9	65.4
			00:00	66.7	67.6	65.7
28/04/2011	Fine	<5	23:00	66.6	67.0	65.4
			23:05	66.8	67.4	66.0
			23:10	66.9	67.5	66.0
			23:15	66.3	66.9	65.5
			23:20	66.0	66.8	65.1
			23:25	66.1	66.8	65.2
			23:30	65.9	66.4	65.2
			23:35	66.9	68.5	65.6
			23:40	66.8	68.2	65.6
			23:45	66.4	67.4	65.5
			23:50	66.7	68.1	65.2
			23:55	66.1	67.2	65.1
			00:00	66.3	67.3	65.4

29/04/2011	Fine	<5	23:00	66.7	67.5	65.7
			23:05	66.5	67.4	65.8
			23:10	66.9	67.9	65.5
			23:15	67.0	68.0	65.6
			23:20	66.5	67.2	65.5
			23:25	66.4	66.8	65.8
			23:30	66.5	67.2	65.6
			23:35	66.2	66.9	65.5
			23:40	66.9	68.2	65.9
			23:45	66.3	67.0	65.1
			23:50	66.7	67.3	66.1
			23:55	66.4	66.9	65.2
			00:00	66.2	66.7	65.1
30/04/2011	Fine	<5	23:00	66.4	67.0	65.6
			23:05	66.2	66.8	65.8
			23:10	66.1	66.6	65.4
			23:15	66.5	67.4	65.2
			23:20	66.4	67.2	65.6
			23:25	66.4	67.4	65.5
			23:30	66.2	67.1	65.1
			23:35	66.6	67.3	65.9
			23:40	66.7	67.4	65.9
			23:45	66.2	66.9	65.9
			23:50	66.7	67.4	65.9
			23:55	66.4	67.1	66.0
			00:00	66.6	67.5	65.8
01/05/2011	Fine	<5	23:00	66.7	67.3	66.0
			23:05	66.7	67.4	66.0
			23:10	67.2	67.8	66.4
			23:15	66.3	67.0	65.2
			23:20	66.5	66.8	65.7
			23:25	66.7	67.3	66.0
			23:30	66.2	66.8	65.4
			23:35	66.5	67.2	65.9
			23:40	66.8	67.7	66.1
			23:45	67.0	67.6	66.4
			23:50	66.4	67.4	65.8
			23:55	67.2	67.8	66.3
			00:00	66.4	67.3	65.7
02/05/2011	Fine	<5	23:00	67.0	67.5	66.1
			23:05	66.5	67.1	65.8
			23:10	66.5	67.1	65.8
			23:15	66.6	67.2	65.8
			23:20	66.4	67.0	65.6
			23:25	66.6	67.1	65.8
			23:30	66.5	67.0	65.6

			23:35	66.6	67.1	66.0
			23:40	67.8	69.1	65.7
			23:45	66.8	67.5	65.8
			23:50	66.8	67.5	65.9
			23:55	66.3	67.2	65.3
			00:00	67.0	68.1	65.5
05/05/2011	Fine	<5	23:00	67.4	68.1	66.6
			23:05	67.3	67.9	66.5
			23:10	67.0	68.2	66.0
			23:15	66.6	67.2	65.8
			23:20	67.5	68.2	66.8
			23:25	67.5	68.1	66.9
			23:30	67.5	68.3	66.7
			23:35	67.7	68.2	67.1
			23:40	66.9	67.5	66.1
			23:45	66.9	67.4	66.5
			23:50	67.6	68.4	66.8
			23:55	67.6	68.1	66.8
06/05/2011	Fine	<5	23:00	67.1	67.8	66.2
			23:05	67.2	67.7	66.3
			23:10	67.0	67.6	66.3
			23:15	67.0	68.4	65.5
			23:20	67.0	67.4	66.3
			23:25	67.9	68.6	66.2
			23:30	67.8	68.3	67.1
			23:35	67.0	67.8	66.2
			23:40	67.2	67.8	66.4
			23:45	67.2	67.9	66.4
			23:50	67.6	68.6	66.5
			23:55	67.1	67.9	66.3
07/05/2011	Fine	<5	23:00	67.7	68.4	66.8
			23:05	67.4	67.9	66.8
			23:10	67.7	68.5	66.8
			23:15	67.6	68.0	66.7
			23:20	67.5	67.9	66.7
			23:25	67.5	68.0	66.7
			23:30	67.6	68.1	66.8
			23:35	67.9	68.8	66.9
			23:40	69.1	69.6	68.2
			23:45	67.6	68.1	66.6
			23:50	67.6	68.3	66.6
			23:55	67.7	68.3	67.0
			23:00	67.7	68.5	66.7
			23:05	67.5	68.3	66.7
			23:10	67.6	68.6	66.6
			23:15	67.9	68.9	66.8

08/05/2011	Fine	<5	23:20	68.0	69.0	67.0
			23:25	69.6	70.3	66.9
			23:30	68.5	69.7	67.0
			23:35	67.7	68.5	66.5
			23:40	67.8	68.9	66.5
			23:45	67.5	68.3	66.6
			23:50	67.3	67.7	66.5
			23:55	67.1	67.6	66.3
09/05/2011	Fine	<5	23:00	67.8	68.6	66.7
			23:05	67.5	68.3	66.7
			23:10	68.1	69.1	66.8
			23:15	67.3	68.0	66.4
			23:20	67.7	68.4	66.6
			23:25	67.7	68.4	66.8
			23:30	67.5	68.0	66.8
			23:35	68.0	69.1	66.9
			23:40	67.2	67.8	66.4
			23:45	67.6	68.4	66.9
			23:50	67.8	68.5	67.0
			23:55	67.8	68.3	66.8
10/05/2011	Fine	<5	23:00	67.8	68.4	67.1
			23:05	67.5	68.1	66.8
			23:10	68.0	68.5	67.1
			23:15	67.6	68.2	66.9
			23:20	67.5	67.9	66.9
			23:25	67.7	68.4	66.9
			23:30	67.7	68.3	66.7
			23:35	67.6	68.4	66.7
			23:40	67.5	68.2	67.0
			23:45	68.0	68.6	67.1
			23:50	67.5	68.1	66.8
			23:55	67.5	68.2	66.6
11/05/2011	Fine	<5	23:00	68.1	68.7	67.4
			23:05	68.2	68.8	67.5
			23:10	68.3	68.9	67.6
			23:15	68.2	68.8	67.3
			23:20	68.2	68.7	67.4
			23:25	68.4	68.8	67.6
			23:30	68.3	68.8	67.5
			23:35	68.2	68.8	67.5
			23:40	68.2	68.8	67.4
			23:45	68.5	69.1	67.8
			23:50	68.3	68.9	67.5
			23:55	68.4	69.1	67.7

Average	67.1	dB(A)

Max	69.6	dB(A)
Min	65.4	dB(A)

Appendix C
Supplementary Baseline Noise Monitoring Schedule

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

Supplementary baseline noise review schedule (2011)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10-Apr **Station(s) Reviewed** **M1a**	11-Apr **Station(s) Reviewed** **M1a**	12-Apr **Station(s) Reviewed** **M1a**	13-Apr **Station(s) Reviewed** **M1a**	14-Apr **Station(s) Reviewed** **M1a**	15-Apr **Station(s) Reviewed** **M1a, M7e, M7w**	16-Apr **Station(s) Reviewed** **M1a, M7e, M7w**
17-Apr **Station(s) Reviewed** **M7e, M7w**	18-Apr **Station(s) Reviewed** **M7e, M7w**	19-Apr **Station(s) Reviewed** **M7e, M7w**	20-Apr **Station(s) Reviewed** **M7e, M7w**	21-Apr **Station(s) Reviewed** **M7e, M7w**	**22-Apr** **Station(s) Reviewed** **M1a**	**23-Apr** **Station(s) Reviewed** **M1a**
24-Apr **Station(s) Reviewed** **M1a**	**25-Apr** **Station(s) Reviewed** **M1a**	26-Apr **Station(s) Reviewed** **M1a, M5b**	27-Apr **Station(s) Reviewed** **M1a, M5b**	28-Apr **Station(s) Reviewed** **M1a, M5b**	29-Apr **Station(s) Reviewed** **M5b**	30-Apr **Station(s) Reviewed** **M5b**
01-May **Station(s) Reviewed** **M5b**	**02-May** **Station(s) Reviewed** **M5b**	03-May **Station(s) Reviewed** **M5b**	04-May **Station(s) Reviewed** **M5b**	05-May **Station(s) Reviewed** **M5b**	06-May **Station(s) Reviewed** **M5b**	07-May **Station(s) Reviewed** **M5b**
08-May **Station(s) Reviewed** **M5b**	09-May **Station(s) Reviewed** **M5b**	**10-May** **Station(s) Reviewed** **M5b**	11-May **Station(s) Reviewed** **M5b**	12-May **Station(s) Reviewed** **M4b**	13-May **Station(s) Reviewed** **M4b**	14-May **Station(s) Reviewed** **M4b**
15-May **Station(s) Reviewed** **M4b**	16-May **Station(s) Reviewed** **M4b**	17-May **Station(s) Reviewed** **M4b**	18-May **Station(s) Reviewed** **M4b**	19-May **Station(s) Reviewed** **M4b**	20-May **Station(s) Reviewed** **M4b**	21-May **Station(s) Reviewed** **M4b**
22-May **Station(s) Reviewed** **M4b**	23-May **Station(s) Reviewed** **M4b**	24-May **Station(s) Reviewed** **M4b**	25-May **Station(s) Reviewed** **M4b**	26-May **Station(s) Reviewed** **M2b, M3a**	27-May **Station(s) Reviewed** **M2b, M3a**	28-May **Station(s) Reviewed** **M2b, M3a**
29-May **Station(s) Reviewed** **M2b, M3a**	30-May **Station(s) Reviewed** **M2b, M3a**	31-May **Station(s) Reviewed** **M2b, M3a**	01-Jun **Station(s) Reviewed** **M2b, M3a**	02-Jun **Station(s) Reviewed** **M2b, M3a**	03-Jun **Station(s) Reviewed** **M2b, M3a**	04-Jun **Station(s) Reviewed** **M2b, M3a**
05-Jun **Station(s) Reviewed** **M2b, M3a**	**06-Jun** **Station(s) Reviewed** **M2b, M3a**	07-Jun **Station(s) Reviewed** **M2b, M3a**	08-Jun **Station(s) Reviewed** **M2b, M3a**	09-Jun	10-Jun	11-Jun