
APPENDIX 7.1

BASELINE NOISE SURVEY REPORT

Appendix 7.1 Baseline Noise Survey Data

(1) Monitoring Location

Baseline noise monitoring was undertaken at selected location as shown in Figure 7.1.

(2) Monitoring Parameters and Frequency

The qualified staff undertook noise measurement at each location on three days including weekday and holiday. Noise monitoring was carried out using sound level meters with respect to L_{eq} (30 min), L_{max} , L_{min} , L_{10} and L_{90} . The measurement period was as following table.

Table 1 Baseline Noise Monitoring

Time Period	Type	Duration / min
Daytime (07:00-19:00)	A	30
Evening time (19:00-23:00)	B	30
Night-time (23:00-07:00)	C	30

All noise measurements were conducted in accordance with the *Technical Memorandum for Assessment on Noise from Places Other than Domestic Premises, Public Places or Construction Sites*.

(3) Monitoring Equipment

As referred to the Technical Memorandum issued under the Noise Control Ordinance, sound level meters in compliance with the International Electromechanical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specification were used for carrying out the noise monitoring.

(4) Field Monitoring Methodology and QA/QC Procedure

The sound level meter was set on a tripod at a height of 1.2m above ground level. The meter was posited away from any nearby reflective surfaces. The battery condition was checked to ensure good functioning of the meter. Parameters such as frequency weighting, the time weighting and the measurement time would be set as follows:

- frequency weighting: A
- time weighting: Fast
- time measurement: 30 minutes

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

The wind speed was checked with the portable wind meter. No noise monitoring was conducted in the presence of fog, rain, and wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.

Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise could be avoided.

(5) Monitoring Results

Date	Time Period	Monitoring Station	Noise Parameter, dB(A)					Remarks
			L _{eq} (30 min)	L ₁₀	L ₉₀	L _{max}	L _{min}	
2/3/03	A	N1	62.2	65.2	54.4	79.4	52.6	Traffic noise Insect noise
	B	N1	60.2	62.3	53.0	75.2	51.7	Traffic noise Insect noise
	C	N1	60.6	62.1	52.9	78.6	51.7	Traffic noise Insect noise
3/3/03	A	N1	66.4	69.6	56.0	83.7	--	Traffic noise
	B	N1	61.5	62.8	53.4	80.5	51.6	Traffic noise Insect noise
	C	N1	62.8	65.2	53.9	83.7	51.5	Dog barking, Traffic noise Insect noise

Average wind speed during measurement period: 0.11 – 3.88 m/s