

Appendix 12.1

Glossary of Acoustical Terminology

Appendix 12.1

Instrumentation and Meteorological Information

The following instrumentation was used during measurements:

Bruel & Kjaer Sound Analyser Type 2260,

Serial Number 2370433;

Bruel & Kjaer Microphone Type 4189,

Serial Number 2364136;

Bruel & Kjaer Sound Level Calibrator Type 4231,

Serial Number 2291187;

Bruel & Kjaer Sound Analysis Software BZ 7206.

The monitoring equipment was calibrated at both the beginning and the end of the measurement period using an acoustic calibrator, which has itself been calibrated against a reference set traceable to national and International Standards. There was no shift in the observed calibration level.

Measurement of ambient levels at representative sample properties were carried out on 16th and 17th March 2005. The weather during both days was overcast with occasional slight precipitation; however the road surface remained dry so vehicles did not generate spray. The wind direction varied in each measurement location but was not greater than 5m/s.

Appendix 12.2

DMRB Summary Tables

Table A12.2(a): DMRB Ambient Noise Band 50 – 60dB

Ambient Noise Band 50 - 60dB	L _{A10,18hr} dB	Residential		Commercial/Industrial		Community Facilities	
		Preferred Route	RMN	Preferred Route	RMN	Preferred Route	RMN
Increase In Noise Level L _{A10,18hr} dB	1 < 3	293	265	0	0	0	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	>=15	0	0	0	0	0	0
Increase In Nuisance Level	< 10%	0	305	0	0	0	0
	10 < 20%	5	0	0	0	0	0
	20 < 30%	299	0	0	0	0	0
	30 < 40%	1	0	0	0	0	0
	>=40%	0	0	0	0	0	0
Decrease In Noise Level L _{A10,18hr} dB	1 < 3	0	0	0	0	0	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	>= 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	0	0	0	0	0	0
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	>= 40%	0	0	0	0	0	0

Table A12.2(b): DMRB Ambient Noise Band 60 – 70dB

Ambient Noise Band 60 - 70dB	L _{A10,18hr} dB	Residential		Commercial/Industrial		Community Facilities	
		Preferred Route	RMN	Preferred Route	RMN	Preferred Route	RMN
Increase In Noise Level L _{A10,18hr} dB	1 < 3	174	177	0	0	16	16
	3 < 5	0	0	0	0	0	5
	5 < 10	0	0	0	0	1	0
	10 < 15	0	0	0	0	0	0
	> =15	0	0	0	0	0	0
Increase In Nuisance	< 10%	0	232	0	0	0	22
	10 < 20%	44	0	0	0	1	0

Ambient Noise Band 60 - 70dB	L _{A10,18hr} dB	Residential		Commercial/Industrial		Community Facilities	
		Preferred Route	RMN	Preferred Route	RMN	Preferred Route	RMN
Level	20 < 30%	188	0	0	0	15	0
	30 < 40%	0	0	0	0	2	0
	>=40%	0	0	0	0	0	0
Decrease In Noise Level L _{A10,18hr} dB	1 < 3	0	0	0	0	0	0
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	>= 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	0	0	0	0	3	0
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	>= 40%	0	0	0	0	0	0

Table A12.2(c): DMRB Ambient Noise Band >70dB

Ambient Noise Band > 70dB	L _{A10,18hr} dB	Residential		Commercial/Industrial		Community Facilities	
		Preferred Route	RMN	Preferred Route	RMN	Preferred Route	RMN
Increase In Noise Level L _{A10,18hr} dB	1 < 3	0	1	0	0	1	2
	3 < 5	0	0	0	0	0	0
	5 < 10	0	0	0	0	2	0
	10 < 15	0	0	0	0	0	0
	> =15	0	0	0	0	0	0
Increase In Nuisance Level	< 10%	0	1	0	0	1	5
	10 < 20%	0	0	0	0	0	0
	20 < 30%	1	0	0	0	1	0
	30 < 40%	0	0	0	0	0	0
	>=40%	0	0	0	0	2	0
Decrease In Noise Level L _{A10,18hr} dB	1 < 3	0	0	0	0	0	0
	3 < 5	0	0	0	0	1	0
	5 < 10	0	0	0	0	0	0
	10 < 15	0	0	0	0	0	0
	>= 15	0	0	0	0	0	0
Decrease In Nuisance Level	< 10%	0	0	0	0	1	0
	10 < 20%	0	0	0	0	0	0
	20 < 30%	0	0	0	0	0	0
	30 < 40%	0	0	0	0	0	0
	>= 40%	0	0	0	0	0	0

