

## Appendix A

**Table A1. SPB results by site**

Road	Site*	Lights at 110km/h, dB(A)	Ta at 90km/h, dB(A)	Tb at 90km/h, dB(A)	RSI <sub>H</sub>
M18**	1	85.0	89.0	92.7	0.9
M18**	2	86.6	89.1	92.3	1.7
M20	1	88.3	89.6	93.7	3.2
M20	2	90.6	91.6	95.5	5.3
M20	3	88.3	90.6	93.6	3.2
M20***	4	87.0	89.4	92.2	1.9
M20	5	87.7	89.9	92.8	2.6
M20	6	86.5	88.9	92.9	1.8
M20	7	88.3	90.1	93.3	3.1
M20	8	87.8	90.6	92.8	2.7
M20	9	87.1	89.5	92.1	1.9
M23**	1	84.4	87.0	89.2	-0.8
M23**	2	84.4	87.6	89.7	-0.6
M1-A1 Link	1	89.6	90.7	93.4	4.1
M1-A1 Link	2	92.0	93.3	96.2	6.5
M1-A1 Link	3	87.6	89.4	92.1	2.3
M1-A1 Link	4	93.4	93.5	97.0	7.8
A11	1	88.4	89.6	92.5	2.9
A11	2	88.5	89.8	93.0	3.1
A11	3	88.8	90.0	92.7	3.3
A11	4	89.6	90.7	93.5	4.1
A11	5	87.4	89.5	92.1	2.1
A13	1	85.9	88.2	90.9	0.7
A13	2	85.9	87.2	89.9	0.4
A27	1	91.0	91.4	94.5	5.4
A27	2	90.5	91.3	94.1	4.9
A27	3	89.2	91.0	94.5	4.1
A27	4	90.0	91.4	94.6	4.6
A27	5	90.0	91.6	94.1	4.6
A27	6	89.7	91.4	93.8	4.3
A30	1	89.3	90.3	93.4	3.8
A30	2	88.4	89.6	92.9	3.0
A30	3	88.4	89.4	92.2	2.9
A30	4	90.2	90.9	93.5	4.5
A30	5	88.4	90.2	92.6	3.0
A30	6	90.7	90.8	93.8	5.0
A34	1	91.3	93.1	95.7	6.0
A34	2	93.0	93.5	96.4	7.3
A34	3	89.9	90.9	94.9	4.6
A34	4	90.6	91.5	94.5	5.1

Road	Site	Lights at 110km/h, dB(A)	Ta at 90km/h, dB(A)	Tb at 90km/h, dB(A)	RSI <sub>H</sub>
A35	1	87.6	89.0	92.2	2.3
A35	2	89.4	90.0	92.9	3.8
A35	3	87.8	89.4	92.2	2.5
A35	4	87.5	88.9	91.6	2.1
A50 Doveridge	1	89.4	91.3	94.1	4.1
A50 Doveridge	2	91.1	92.2	95.1	5.6
A50 Doveridge	3	89.1	91.0	94.3	3.9
A50 Derby Southern	1	85.8	88.6	91.7	1.0
A50 Derby Southern	2	85.7	89.3	92.1	1.0
A50 Foston Hatton Hilton	1	84.5	86.8	88.6	-0.8
A50 Foston Hatton Hilton	2	84.9	86.4	88.4	-0.7
A50 Foston Hatton Hilton	3	85.8	87.2	89.8	0.3
A52	1	87.0	88.2	90.8	1.5
A52	2	87.4	88.7	91.3	1.9
A249	1	87.1	88.8	91.2	1.7
A249	2	86.8	89.5	92.2	1.8
A249	3	87.1	88.6	92.2	1.9
A249	4	86.0	88.8	91.7	1.1
A417 / A419	1	91.9	92.1	95.5	6.3
A417 / A419	2	89.0	89.7	92.9	3.4
A417 / A419	3	89.6	90.4	93.4	4.0
A417 / A419	4	88.7	90.0	93.5	3.4
A417 / A419	5	92.2	92.2	95.8	6.6
A417 / A419	6	91.6	92.1	95.9	6.1
A483	1	87.7	89.4	91.9	2.3
A483	2	87.1	89.7	92.2	2.0
A483	3	89.1	90.3	93.1	3.6

\* The site numbering is in the order surveyed. This is not necessarily the order that the sites are located along the road

\*\* Noise levels corrected for use with Backing Board

\*\*\* Removed from final analysis due to poor meteorological conditions