## Appendix 8.16 Road Traffic Noise Predictions and Assessment for Other Highway Works

## Appendix 8.16 Road Traffic Noise Predictions and Assessment for Other Highway Works

Table 1 Predicted road traffic noise levels for daytime period – 07:00-23:00 (free-field)

Receptor	Predicted L <sub>Aeq,16hr</sub> (dB) from Road Traffic Noise - Other Highway Works					
Name	Height (m)	2015 Baseline	2021 DM	2021 DS	2031 DM	2031 DS
R57 The Lodge	1.5	64.3	64.5	64.9	64.9	66.2
R57a Woodleys Farmhouse	1.5	58.8	59.2	59.5	59.4	60.9
R58 Tunnel Hill Cottages	1.5	51.5	51.3	51.5	53.2	56.6
R59 Blaize Farm	1.5	45.6	46.1	45.9	47.1	49.1
R60 Stokehill Cottage	1.5	67.8	68.1	68.4	68.4	66.9
R61 Northampton Rd	1.5	_*	64.7	65.0	65.1	66.0
R62 Paddocks Farm	1.5	_*	69.7	69.9	69.7	70.4

Notes:

DM = Do Minimum, DS = Do Something

Table 2 Assessment of predicted road traffic noise – 2031 daytime period

Receptor		L <sub>Aeq,16hr</sub> (dB)			Change		Significant?
Name	Height (m)	2031 DM	2031 DS	Do Something Effect Level	2031 DS - DM	Impact Magnitude	(See Table 8.9)
R57 The Lodge	1.5	64.9	66.2	≥SOAEL	1.3	Minor Adverse	YES
R57a Woodleys Farmhouse	1.5	59.4	60.9	Between LOAEL and SOAEL	1.5	Negligible	NO
R58 Tunnel Hill Cottages	1.5	53.2	56.6	Between LOAEL and SOAEL	3.4	Minor Adverse	NO
R59 Blaize Farm	1.5	47.1	49.1	<loael< td=""><td>2.0</td><td>-</td><td>NO</td></loael<>	2.0	-	NO
R60 Stokehill Cottage	1.5	68.4	66.9	≥SOAEL	-1.5	Minor Beneficial	NO
R61 Northampton Rd	1.5	65.1	66.0	≥SOAEL	0.9	Negligible	NO
R62 Paddocks Farm	1.5	69.7	70.4	≥SOAEL	0.7	Negligible	NO

<sup>\*</sup> Traffic data on adjacent links not available for this receptor for this scenario

## Appendix 8.16 Road Traffic Noise Predictions and Assessment for Other Highway Works

Table 3 Predicted road traffic noise levels for night-time period – 23:00-07:00 (free-field)

Receptor	Predicted L <sub>night</sub> (dB) from Road Traffic Noise - Other Highway Works					
Name	Height (m)	2015 Baseline	2021 DM	2021 DS	2031 DM	2031 DS
R57 The Lodge	4.5	57.9	58.2	58.5	58.5	59.4
R57a Woodleys Farmhouse	4.5	52.4	52.5	52.9	52.8	54.2
R58 Tunnel Hill Cottages	4.5	45.9	45.7	45.9	47.4	50.5
R59 Blaize Farm	4.5	40.0	40.2	40.0	41.6	43.7
R60 Stokehill Cottage	4.5	60.2	60.5	60.8	60.8	59.6
R61 Northampton Rd	4.5	_*	57.7	58.0	58.2	58.9
R62 Paddocks Farm	4.5	_*	61.7	61.9	61.6	62.0

Notes:

DM = Do Minimum, DS = Do Something

Table 4 Assessment of predicted road traffic noise – 2031 night-time period

Receptor		L <sub>night</sub> (dB)			Change		Significant?
Name	Height (m)	2031 DM	2031 DS	Do Something Effect Level	2031 DS - DM	Impact Magnitude	(See Table 8.10)
R57 The Lodge	4.5	58.5	59.4	≥SOAEL	0.9	Negligible	NO
R57a Woodleys Farmhouse	4.5	52.8	54.2	Between LOAEL and SOAEL	1.4	Minor Adverse	NO
R58 Tunnel Hill Cottages	4.5	47.4	50.5	Between LOAEL and SOAEL	3.1	Moderate Adverse	NO
R59 Blaize Farm	4.5	41.6	43.7	Between LOAEL and SOAEL	2.1	Minor Adverse	NO
R60 Stokehill Cottage	4.5	60.8	59.6	≥SOAEL	-1.2	Minor Beneficial	NO
R61 Northampton Rd	4.5	58.2	58.9	≥SOAEL	0.7	Negligible	NO
R62 Paddocks Farm	4.5	61.6	62.0	≥SOAEL	0.4	Negligible	NO

<sup>\*</sup> Traffic data on adjacent links not available for this receptor for this scenario