

Appendix 8.14

Road Traffic Noise Predictions and Assessment for Around Main Site

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

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

Receptor		Predicted L _{Aeq,16hr} (dB) from Road Traffic Noise - Main Site				
Name	Height (m)	2015 Baseline	2021 DM	2021 DS	2031 DM	2031 DS
R01 Woodpecker Way	1.5	50.8	51.7	51.7	51.8	52.0
R02 Northampton South SUE W	1.5	56.2	56.9	57.0	57.1	57.4
R03 Northampton South SUE S	1.5	69.6	70.5	70.6	70.6	70.9
R04 Collingtree Ct	1.5	68.4	69.3	69.3	69.4	69.6
R05 Collingtree Ct	1.5	74.0	74.9	75.0	75.1	75.3
R06 Watering Ln	1.5	60.7	61.6	62.4	61.9	62.4
R07 Windingbrook Ln	1.5	55.0	55.3	55.3	55.5	55.4
R08 Hilton West	1.5	59.9	60.9	60.7	60.9	61.2
R09 Hilton East	1.5	65.0	65.3	65.5	65.6	66.3
R10 Saxon Ave	1.5	50.2	50.9	50.7	51.0	51.0
R11 Holiday Inn West	1.5	60.6	61.5	61.2	61.4	61.9
R12 Maple Farm East	1.5	64.1	65.0	65.0	65.1	65.3
R13 Maple Farm South	1.5	60.0	61.2	58.3	61.4	58.4
R14 Collingtree Rd	1.5	53.4	55.5	54.4	55.7	54.2
R15 Collingtree Rd North	1.5	55.1	56.9	57.0	57.2	57.0
R16 Collingtree Rd South	1.5	50.7	51.7	49.7	51.9	50.0
R17 Collingtree Rd West 4.5	4.5*	52.3	53.6	53.4	53.9	53.5
R18 Collingtree Rd North	1.5	53.4	54.4	54.1	54.5	54.4
R19 Collingtree Rd South	1.5	54.8	58.5	58.6	58.9	58.2
R20 Stockwell Way	1.5	51.8	52.6	52.1	52.8	52.4
R21 Barn Lane	1.5	49.9	50.9	50.0	51.1	50.2
R22 Rectory Ln	1.5	57.4	59.6	59.8	60.0	59.7
R23 Barn Ln	1.5	49.5	50.4	48.3	50.5	48.6
R24 Lodge Farm	1.5	50.9	51.7	49.7	51.8	49.9

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Receptor		Predicted $L_{Aeq,16hr}$ (dB) from Road Traffic Noise - Main Site				
Name	Height (m)	2015 Baseline	2021 DM	2021 DS	2031 DM	2031 DS
R25 Barn Ln	1.5	48.8	49.6	47.6	49.8	48.0
R26 Northampton Rd	1.5	59.6	59.9	59.4	61.0	61.3
R27 Blisworth High St	1.5	66.8	66.6	67.6	68.7	67.2
R28 Courteenhall Rd	1.5	46.9	47.6	46.0	47.7	45.8
R29 West Lodge Cottages West	1.5	52.7	53.0	53.8	53.1	54.8
R30 West Lodge Cottages East	1.5	67.6	67.9	68.7	68.0	69.7
R31 Bridge Cottage North	1.5	58.3	58.3	59.7	58.0	56.6
R32 Bridge Cottage South	1.5	47.5	47.6	49.0	47.4	47.5
R33 Bridge Cottage West	1.5	53.4	53.5	54.5	53.2	51.6
R34 Courteenhall West	1.5	55.4	56.2	56.0	56.3	56.4
R35 Thorpewood Farm North	1.5	50.2	51.0	50.1	51.0	50.3
R36 Thorpewood Farm South	1.5	42.6	43.4	43.6	43.5	45.1

Notes:
DM = Do Minimum, DS = Do Something;
* R17 does not have a window at 1.5 m so a receptor height of 4.5 m (where there is a window) has been used.

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Table 2 Assessment of predicted road traffic noise – 2021 daytime period

Receptor		L _{Aeq,16hr} (dB)		Do Something Effect Level	Change 2021 DS - DM	Impact Magnitude	Significant? (See Table 8.9)
Name	Height (m)	2021 DM	2021 DS				
R01 Woodpecker Way	1.5	51.7	51.7	Between LOAEL and SOAEL	0.0	No Change	NO
R02 Northampton South SUE W	1.5	56.9	57.0	Between LOAEL and SOAEL	0.1	Negligible	NO
R03 Northampton South SUE S	1.5	70.5	70.6	≥SOAEL	0.1	Negligible	NO
R04 Collingtree Ct	1.5	69.3	69.3	≥SOAEL	0.0	No Change	NO
R05 Collingtree Ct	1.5	74.9	75.0	≥SOAEL	0.1	Negligible	NO
R06 Watering Ln	1.5	61.6	62.4	Between LOAEL and SOAEL	0.8	Negligible	NO
R07 Windingbrook Ln	1.5	55.3	55.3	Between LOAEL and SOAEL	0.0	No Change	NO
R08 Hilton West	1.5	60.9	60.7	Between LOAEL and SOAEL	-0.2	Negligible	NO
R09 Hilton East	1.5	65.3	65.5	≥SOAEL	0.2	Negligible	NO
R10 Saxon Ave	1.5	50.9	50.7	Between LOAEL and SOAEL	-0.2	Negligible	NO
R11 Holiday Inn West	1.5	61.5	61.2	Between LOAEL and SOAEL	-0.3	Negligible	NO
R12 Maple Farm East	1.5	65.0	65.0	≥SOAEL	0.0	No Change	NO
R13 Maple Farm South	1.5	61.2	58.3	Between LOAEL and SOAEL	-2.9	Negligible	NO
R14 Collingtree Rd	1.5	55.5	54.4	Between LOAEL and SOAEL	-1.1	Negligible	NO
R15 Collingtree Rd North	1.5	56.9	57.0	Between LOAEL and SOAEL	0.1	Negligible	NO
R16 Collingtree Rd South	1.5	51.7	49.7	<LOAEL	-2.0	-	NO
R17 Collingtree Rd West 4.5	4.5*	53.6	53.4	Between LOAEL and SOAEL	-0.2	Negligible	NO
R18 Collingtree Rd North	1.5	54.4	54.1	Between LOAEL and SOAEL	-0.3	Negligible	NO
R19 Collingtree Rd South	1.5	58.5	58.6	Between LOAEL and SOAEL	0.1	Negligible	NO
R20 Stockwell Way	1.5	52.6	52.1	Between LOAEL and SOAEL	-0.5	Negligible	NO
R21 Barn Lane	1.5	50.9	50.0	Between LOAEL and SOAEL	-0.9	Negligible	NO
R22 Rectory Ln	1.5	59.6	59.8	Between LOAEL and SOAEL	0.2	Negligible	NO
R23 Barn Ln	1.5	50.4	48.3	<LOAEL	-2.1	-	NO
R24 Lodge Farm	1.5	51.7	49.7	<LOAEL	-2.0	-	NO

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Receptor		L _{Aeq,16hr} (dB)		Do Something Effect Level	Change 2021 DS - DM	Impact Magnitude	Significant? (See Table 8.9)
Name	Height (m)	2021 DM	2021 DS				
R25 Barn Ln	1.5	49.6	47.6	<LOAEL	-2.0	-	NO
R26 Northampton Rd	1.5	59.9	59.4	Between LOAEL and SOAEL	-0.5	Negligible	NO
R27 Blisworth High St	1.5	66.6	67.6	≥SOAEL	1.0	Minor Adverse	YES
R28 Courteenhall Rd	1.5	47.6	46.0	<LOAEL	-1.6	-	NO
R29 West Lodge Cottages West	1.5	53.0	53.8	Between LOAEL and SOAEL	0.8	Negligible	NO
R30 West Lodge Cottages East	1.5	67.9	68.7	≥SOAEL	0.8	Negligible	NO
R31 Bridge Cottage North	1.5	58.3	59.7	Between LOAEL and SOAEL	1.4	Negligible	NO
R32 Bridge Cottage South	1.5	47.6	49.0	<LOAEL	1.4	-	NO
R33 Bridge Cottage West	1.5	53.5	54.5	Between LOAEL and SOAEL	1.0	Negligible	NO
R34 Courteenhall West	1.5	56.2	56.0	Between LOAEL and SOAEL	-0.2	Negligible	NO
R35 Thorpewood Farm North	1.5	51.0	50.1	Between LOAEL and SOAEL	-0.9	Negligible	NO
R36 Thorpewood Farm South	1.5	43.4	43.6	<LOAEL	0.2	-	NO

* R17 does not have a window at 1.5 m so a receptor height of 4.5 m (where there is a window) has been used.

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Table 3 Assessment of predicted road traffic noise – 2031 daytime period

Receptor		L _{Aeq,16hr} (dB)		Do Something Effect Level	Change 2031 DS - DM	Impact Magnitude	Significant? (See Table 8.9)
Name	Height (m)	2031 DM	2031 DS				
R01 Woodpecker Way	1.5	51.8	52.0	Between LOAEL and SOAEL	0.2	Negligible	NO
R02 Northampton South SUE W	1.5	57.1	57.4	Between LOAEL and SOAEL	0.3	Negligible	NO
R03 Northampton South SUE S	1.5	70.6	70.9	≥SOAEL	0.3	Negligible	NO
R04 Collingtree Ct	1.5	69.4	69.6	≥SOAEL	0.2	Negligible	NO
R05 Collingtree Ct	1.5	75.1	75.3	≥SOAEL	0.2	Negligible	NO
R06 Watering Ln	1.5	61.9	62.4	Between LOAEL and SOAEL	0.5	Negligible	NO
R07 Windingbrook Ln	1.5	55.5	55.4	Between LOAEL and SOAEL	-0.1	Negligible	NO
R08 Hilton West	1.5	60.9	61.2	Between LOAEL and SOAEL	0.3	Negligible	NO
R09 Hilton East	1.5	65.6	66.3	≥SOAEL	0.7	Negligible	NO
R10 Saxon Ave	1.5	51.0	51.0	Between LOAEL and SOAEL	0.0	No Change	NO
R11 Holiday Inn West	1.5	61.4	61.9	Between LOAEL and SOAEL	0.5	Negligible	NO
R12 Maple Farm East	1.5	65.1	65.3	≥SOAEL	0.2	Negligible	NO
R13 Maple Farm South	1.5	61.4	58.4	Between LOAEL and SOAEL	-3.0	Minor Beneficial	NO
R14 Collingtree Rd	1.5	55.7	54.2	Between LOAEL and SOAEL	-1.5	Negligible	NO
R15 Collingtree Rd North	1.5	57.2	57.0	Between LOAEL and SOAEL	-0.2	Negligible	NO
R16 Collingtree Rd South	1.5	51.9	50.0	Between LOAEL and SOAEL	-1.9	Negligible	NO
R17 Collingtree Rd West 4.5	4.5*	53.9	53.5	Between LOAEL and SOAEL	-0.4	Negligible	NO
R18 Collingtree Rd North	1.5	54.5	54.4	Between LOAEL and SOAEL	-0.1	Negligible	NO
R19 Collingtree Rd South	1.5	58.9	58.2	Between LOAEL and SOAEL	-0.7	Negligible	NO
R20 Stockwell Way	1.5	52.8	52.4	Between LOAEL and SOAEL	-0.4	Negligible	NO
R21 Barn Lane	1.5	51.1	50.2	Between LOAEL and SOAEL	-0.9	Negligible	NO
R22 Rectory Ln	1.5	60.0	59.7	Between LOAEL and SOAEL	-0.3	Negligible	NO
R23 Barn Ln	1.5	50.5	48.6	<LOAEL	-1.9	-	NO

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Receptor		L _{Aeq,16hr} (dB)		Do Something Effect Level	Change 2031 DS - DM	Impact Magnitude	Significant? (See Table 8.9)
Name	Height (m)	2031 DM	2031 DS				
R24 Lodge Farm	1.5	51.8	49.9	<LOAEL	-1.9	-	NO
R25 Barn Ln	1.5	49.8	48.0	<LOAEL	-1.8	-	NO
R26 Northampton Rd	1.5	61.0	61.3	Between LOAEL and SOAEL	0.3	Negligible	NO
R27 Blisworth High St	1.5	68.7	67.2	≥SOAEL	-1.5	Minor Beneficial	NO
R28 Courteenhall Rd	1.5	47.7	45.8	<LOAEL	-1.9	-	NO
R29 West Lodge Cottages West	1.5	53.1	54.8	Between LOAEL and SOAEL	1.7	Negligible	NO
R30 West Lodge Cottages East	1.5	68.0	69.7	≥SOAEL	1.7	Minor Adverse	YES
R31 Bridge Cottage North	1.5	58.0	56.6	Between LOAEL and SOAEL	-1.4	Negligible	NO
R32 Bridge Cottage South	1.5	47.4	47.5	<LOAEL	0.1	-	NO
R33 Bridge Cottage West	1.5	53.2	51.6	Between LOAEL and SOAEL	-1.6	Negligible	NO
R34 Courteenhall West	1.5	56.3	56.4	Between LOAEL and SOAEL	0.1	Negligible	NO
R35 Thorpewood Farm North	1.5	51.0	50.3	Between LOAEL and SOAEL	-0.7	Negligible	NO
R36 Thorpewood Farm South	1.5	43.5	45.1	<LOAEL	1.6	-	NO

* R17 does not have a window at 1.5 m so a receptor height of 4.5 m (where there is a window) has been used.

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Table 4 Predicted road traffic noise levels for night-time period – 23:00–07:00 (free-field)

Receptor		Predicted L _{night} (dB) from Road Traffic Noise - Main Site				
Name	Height (m)	2015 Baseline	2021 DM	2021 DS	2031 DM	2031 DS
R01 Woodpecker Way	4.5	46.1	46.8	46.8	46.9	47.2
R02 Northampton South SUE W	4.5	47.7	48.4	48.5	48.5	48.7
R03 Northampton South SUE S	4.5	59.8	60.6	60.7	60.7	60.9
R04 Collingtree Ct	4.5	60.3	61.1	61.2	61.3	61.5
R05 Collingtree Ct	4.5	65.2	66.0	66.1	66.1	66.3
R06 Watering Ln	4.5	52.9	53.8	54.5	53.9	54.5
R07 Windingbrook Ln	4.5	49.0	49.4	49.3	49.6	49.5
R08 Hilton West	4.5	52.3	53.2	53.1	53.3	53.6
R09 Hilton East	4.5	58.8	59.1	59.1	59.3	59.8
R10 Saxon Ave	4.5	43.9	44.4	44.1	44.4	44.5
R11 Holiday Inn West	4.5	54.0	54.7	54.5	54.8	55.2
R12 Maple Farm East	4.5	55.6	56.4	56.4	56.4	56.6
R13 Maple Farm South	4.5	52.2	53.5	51.1	53.7	51.1
R14 Collingtree Rd	4.5	47.1	49.3	48.8	49.6	48.6
R15 Collingtree Rd North	4.5	48.1	50.2	50.4	50.4	50.3
R16 Collingtree Rd South	4.5	43.8	44.9	43.6	45.1	43.8
R17 Collingtree Rd West 4.5	4.5	43.9	45.2	45.0	45.5	45.1
R18 Collingtree Rd North	4.5	45.5	46.5	46.4	46.7	46.5
R19 Collingtree Rd South	4.5	48.3	51.7	51.7	52.1	51.5
R20 Stockwell Way	1.5*	42.6	43.3	42.9	43.5	43.2
R21 Barn Lane	4.5	42.1	43.1	42.4	43.2	42.6
R22 Rectory Ln	4.5	50.9	52.8	53.0	53.3	52.8
R23 Barn Ln	4.5	41.4	42.2	40.3	42.3	40.6
R24 Lodge Farm	4.5	42.8	43.4	42.0	43.6	42.3

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Receptor		Predicted L _{night} (dB) from Road Traffic Noise - Main Site				
Name	Height (m)	2015 Baseline	2021 DM	2021 DS	2031 DM	2031 DS
R25 Barn Ln	1.5*	40.6	41.2	39.7	41.3	40.0
R26 Northampton Rd	4.5	53.3	53.6	53.2	54.6	54.9
R27 Blisworth High St	4.5	58.5	58.4	59.3	60.2	59.0
R28 Courteenhall Rd	4.5	40.3	40.8	40.0	40.9	39.8
R29 West Lodge Cottages West	4.5	46.2	46.3	47.4	46.5	48.3
R30 West Lodge Cottages East	4.5	59.9	60.2	60.9	60.2	61.8
R31 Bridge Cottage North	4.5	52.0	51.9	53.4	51.6	50.3
R32 Bridge Cottage South	4.5	42.8	42.8	44.1	42.5	42.5
R33 Bridge Cottage West	4.5	47.5	47.5	48.8	47.2	45.9
R34 Courteenhall West	4.5	46.4	47.2	47.1	47.2	47.5
R35 Thorpewood Farm North	4.5	42.9	43.3	43.0	43.5	43.2
R36 Thorpewood Farm South	4.5	37.0	37.7	37.8	37.8	39.4

Notes:
DM = Do Minimum, DS = Do Something;
* R20 & R25 are single storey so a receptor height of 1.5 m has been used.

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Table 5 Assessment of predicted road traffic noise – 2021 night-time period

Receptor		L _{night} (dB)		Do Something Effect Level	Change 2021 DS - DM	Impact Magnitude	Significant? (See Table 8.10)
Name	Height (m)	2021 DM	2021 DS				
R01 Woodpecker Way	4.5	46.8	46.8	Between LOAEL and SOAEL	0.0	No Change	NO
R02 Northampton South SUE W	4.5	48.4	48.5	Between LOAEL and SOAEL	0.1	Negligible	NO
R03 Northampton South SUE S	4.5	60.6	60.7	≥SOAEL	0.1	Negligible	NO
R04 Collingtree Ct	4.5	61.1	61.2	≥SOAEL	0.1	Negligible	NO
R05 Collingtree Ct	4.5	66.0	66.1	≥SOAEL	0.1	Negligible	NO
R06 Watering Ln	4.5	53.8	54.5	Between LOAEL and SOAEL	0.7	Negligible	NO
R07 Windingbrook Ln	4.5	49.4	49.3	Between LOAEL and SOAEL	-0.1	Negligible	NO
R08 Hilton West	4.5	53.2	53.1	Between LOAEL and SOAEL	-0.1	Negligible	NO
R09 Hilton East	4.5	59.1	59.1	≥SOAEL	0.0	No Change	NO
R10 Saxon Ave	4.5	44.4	44.1	Between LOAEL and SOAEL	-0.3	Negligible	NO
R11 Holiday Inn West	4.5	54.7	54.5	Between LOAEL and SOAEL	-0.2	Negligible	NO
R12 Maple Farm East	4.5	56.4	56.4	≥SOAEL	0.0	No Change	NO
R13 Maple Farm South	4.5	53.5	51.1	Between LOAEL and SOAEL	-2.4	Minor Beneficial	NO
R14 Collingtree Rd	4.5	49.3	48.8	Between LOAEL and SOAEL	-0.5	Negligible	NO
R15 Collingtree Rd North	4.5	50.2	50.4	Between LOAEL and SOAEL	0.2	Negligible	NO
R16 Collingtree Rd South	4.5	44.9	43.6	Between LOAEL and SOAEL	-1.3	Minor Beneficial	NO
R17 Collingtree Rd West 4.5	4.5	45.2	45.0	Between LOAEL and SOAEL	-0.2	Negligible	NO
R18 Collingtree Rd North	4.5	46.5	46.4	Between LOAEL and SOAEL	-0.1	Negligible	NO
R19 Collingtree Rd South	4.5	51.7	51.7	Between LOAEL and SOAEL	0.0	No Change	NO
R20 Stockwell Way	1.5*	43.3	42.9	Between LOAEL and SOAEL	-0.4	Negligible	NO
R21 Barn Lane	4.5	43.1	42.4	Between LOAEL and SOAEL	-0.7	Negligible	NO
R22 Rectory Ln	4.5	52.8	53.0	Between LOAEL and SOAEL	0.2	Negligible	NO
R23 Barn Ln	4.5	42.2	40.3	Between LOAEL and SOAEL	-1.9	Minor Beneficial	NO
R24 Lodge Farm	4.5	43.4	42.0	Between LOAEL and SOAEL	-1.4	Minor Beneficial	NO

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Receptor		L _{night} (dB)		Do Something Effect Level	Change 2021 DS - DM	Impact Magnitude	Significant? (See Table 8.10)
Name	Height (m)	2021 DM	2021 DS				
R25 Barn Ln	1.5*	41.2	39.7	<LOAEL	-1.5	-	NO
R26 Northampton Rd	4.5	53.6	53.2	Between LOAEL and SOAEL	-0.4	Negligible	NO
R27 Blisworth High St	4.5	58.4	59.3	≥SOAEL	0.9	Negligible	NO
R28 Courteenhall Rd	4.5	40.8	40.0	Between LOAEL and SOAEL	-0.8	Negligible	NO
R29 West Lodge Cottages West	4.5	46.3	47.4	Between LOAEL and SOAEL	1.1	Minor Adverse	NO
R30 West Lodge Cottages East	4.5	60.2	60.9	≥SOAEL	0.7	Negligible	NO
R31 Bridge Cottage North	4.5	51.9	53.4	Between LOAEL and SOAEL	1.5	Minor Adverse	NO
R32 Bridge Cottage South	4.5	42.8	44.1	Between LOAEL and SOAEL	1.3	Minor Adverse	NO
R33 Bridge Cottage West	4.5	47.5	48.8	Between LOAEL and SOAEL	1.3	Minor Adverse	NO
R34 Courteenhall West	4.5	47.2	47.1	Between LOAEL and SOAEL	-0.1	Negligible	NO
R35 Thorpewood Farm North	4.5	43.3	43.0	Between LOAEL and SOAEL	-0.3	Negligible	NO
R36 Thorpewood Farm South	4.5	37.7	37.8	<LOAEL	0.1	-	NO

* R20 & R25 are single storey so a receptor height of 1.5 m has been used.

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Table 6 Assessment of predicted road traffic noise – 2031 night-time period

Receptor		L _{night} (dB)		Do Something Effect Level	Change 2031 DS - DM	Impact Magnitude	Significant? (See Table 8.10)
Name	Height (m)	2031 DM	2031 DS				
R01 Woodpecker Way	4.5	46.9	47.2	Between LOAEL and SOAEL	0.3	Negligible	NO
R02 Northampton South SUE W	4.5	48.5	48.7	Between LOAEL and SOAEL	0.2	Negligible	NO
R03 Northampton South SUE S	4.5	60.7	60.9	≥SOAEL	0.2	Negligible	NO
R04 Collingtree Ct	4.5	61.3	61.5	≥SOAEL	0.2	Negligible	NO
R05 Collingtree Ct	4.5	66.1	66.3	≥SOAEL	0.2	Negligible	NO
R06 Watering Ln	4.5	53.9	54.5	Between LOAEL and SOAEL	0.6	Negligible	NO
R07 Windingbrook Ln	4.5	49.6	49.5	Between LOAEL and SOAEL	-0.1	Negligible	NO
R08 Hilton West	4.5	53.3	53.6	Between LOAEL and SOAEL	0.3	Negligible	NO
R09 Hilton East	4.5	59.3	59.8	≥SOAEL	0.5	Negligible	NO
R10 Saxon Ave	4.5	44.4	44.5	Between LOAEL and SOAEL	0.1	Negligible	NO
R11 Holiday Inn West	4.5	54.8	55.2	≥SOAEL	0.4	Negligible	NO
R12 Maple Farm East	4.5	56.4	56.6	≥SOAEL	0.2	Negligible	NO
R13 Maple Farm South	4.5	53.7	51.1	Between LOAEL and SOAEL	-2.6	Minor Beneficial	NO
R14 Collingtree Rd	4.5	49.6	48.6	Between LOAEL and SOAEL	-1.0	Minor Beneficial	NO
R15 Collingtree Rd North	4.5	50.4	50.3	Between LOAEL and SOAEL	-0.1	Negligible	NO
R16 Collingtree Rd South	4.5	45.1	43.8	Between LOAEL and SOAEL	-1.3	Minor Beneficial	NO
R17 Collingtree Rd West 4.5	4.5	45.5	45.1	Between LOAEL and SOAEL	-0.4	Negligible	NO
R18 Collingtree Rd North	4.5	46.7	46.5	Between LOAEL and SOAEL	-0.2	Negligible	NO
R19 Collingtree Rd South	4.5	52.1	51.5	Between LOAEL and SOAEL	-0.6	Negligible	NO
R20 Stockwell Way	1.5*	43.5	43.2	Between LOAEL and SOAEL	-0.3	Negligible	NO
R21 Barn Lane	4.5	43.2	42.6	Between LOAEL and SOAEL	-0.6	Negligible	NO
R22 Rectory Ln	4.5	53.3	52.8	Between LOAEL and SOAEL	-0.5	Negligible	NO
R23 Barn Ln	4.5	42.3	40.6	Between LOAEL and SOAEL	-1.7	Minor Beneficial	NO

Appendix 8.14 Road Traffic Noise Predictions and Assessment for Around Main Site

Receptor		L _{night} (dB)		Do Something Effect Level	Change 2031 DS - DM	Impact Magnitude	Significant? (See Table 8.10)
Name	Height (m)	2031 DM	2031 DS				
R24 Lodge Farm	4.5	43.6	42.3	Between LOAEL and SOAEL	-1.3	Minor Beneficial	NO
R25 Barn Ln	1.5*	41.3	40.0	Between LOAEL and SOAEL	-1.3	Minor Beneficial	NO
R26 Northampton Rd	4.5	54.6	54.9	Between LOAEL and SOAEL	0.3	Negligible	NO
R27 Blisworth High St	4.5	60.2	59.0	≥SOAEL	-1.2	Minor Beneficial	NO
R28 Courteenhall Rd	4.5	40.9	39.8	<LOAEL	-1.1	-	NO
R29 West Lodge Cottages West	4.5	46.5	48.3	Between LOAEL and SOAEL	1.8	Minor Adverse	NO
R30 West Lodge Cottages East	4.5	60.2	61.8	≥SOAEL	1.6	Minor Adverse	YES
R31 Bridge Cottage North	4.5	51.6	50.3	Between LOAEL and SOAEL	-1.3	Minor Beneficial	NO
R32 Bridge Cottage South	4.5	42.5	42.5	Between LOAEL and SOAEL	0.0	No Change	NO
R33 Bridge Cottage West	4.5	47.2	45.9	Between LOAEL and SOAEL	-1.3	Minor Beneficial	NO
R34 Courteenhall West	4.5	47.2	47.5	Between LOAEL and SOAEL	0.3	Negligible	NO
R35 Thorpewood Farm North	4.5	43.5	43.2	Between LOAEL and SOAEL	-0.3	Negligible	NO
R36 Thorpewood Farm South	4.5	37.8	39.4	<LOAEL	1.6	-	NO

* R20 & R25 are single storey so a receptor height of 1.5 m has been used.