

A10.2 Predicted Road Traffic Noise Levels at Sample Noise Sensitive Receptors (NSRs)

1 Introduction

1.1.1 This appendix presents the predicted road traffic noise levels at the sample NSRs. The location of the Noise Sensitive Receptors (NSRs) is presented in Section 3 (Environmental Assessment), Chapter 10 (Noise and Vibration), Table 10.5 and Figure 10.1.

2 Short-Term Assessment with the Proposed Scheme

2.1.1 The predicted road traffic noise levels at the sample NSRs for the Do-Minimum (DM) 2021 and (Do-Something) DS 2021 with the associated short-term significance of impact for the daytime period are presented in Tables 1 to 6, for each route option.

2.1.2 It should be noted that a short-term night-time assessment of noise impacts at the time of opening is not required by Design Manual for Roads and Bridges (DMRB) 'Noise and Vibration'.

Table 1: Sample NSRs – Option 1A – DM 2021 vs. DS 2021 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 1A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 1A DM 2021	Opt 1A DS 2021	Opt 1A Significance of Impact	Opt 1A DM 2021	Opt 1A DS 2021	Opt 1A Significance of Impact
01	27 Woodgrove Crescent	56.7	71.9	Large/ Very Large adverse	57.8	72.4	Large/ Very Large adverse
02	7 Inshes Holdings	75.2	74.9	Slight beneficial	-	-	-
03	Thistlefield	51.5	57.4	Large/ Very Large adverse	54.1	59.8	Large/ Very Large adverse
04	9 Cradlehall Meadows	51.3	56.5	Large/ Very Large adverse	52.1	57.4	Large/ Very Large adverse
05	Annfield	48.7	49.8	Slight/ Moderate adverse	48.8	49.9	Slight/ Moderate adverse
06	Ashton Farm	46.7	50.1	Moderate/ Large adverse	48.9	52.2	Moderate/ Large adverse
07	49 Cranmore Drive	51.3	51.9	Slight adverse	50.7	51.3	Slight adverse
08	Stratton Farmhouse	63.4	64.1	Slight adverse	66.7	67.4	Slight adverse
09	Seafield of Raigmore	55.6	55.6	Neutral	57.7	57.7	Neutral
10	281 Mackintosh Road	65.7	65.7	Neutral	65.7	65.7	Neutral

2.1.3 Table 1 shows that, for Option 1A, at ground floor level and without mitigation, three of the sample NSRs are predicted to have a Large/Very Large adverse significance. One NSR is predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance, two NSRs are predicted to have a Slight adverse significance, two NSRs are predicted to have a Neutral significance and one NSR is predicted to have a Slight beneficial significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 2: Sample NSRs – Option 1B – DM 2021 vs. DS 2021 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 1B Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 1B DM 2021	Opt 1B DS 2021	Opt 1B Significance of Impact	Opt 1B DM 2021	Opt 1B DS 2021	Opt 1B Significance of Impact
01	27 Woodgrove Crescent	56.7	71.9	Large/ Very Large adverse	57.8	72.4	Large/ Very Large adverse
02	7 Inshes Holdings	75.2	74.9	Slight beneficial	-	-	-
03	Thistlefield	51.5	57.4	Large/ Very Large adverse	54.1	59.8	Large/ Very Large adverse
04	9 Cradlehall Meadows	49.9	58.4	Large/ Very Large adverse	50.6	59.1	Large/ Very Large adverse
05	Annfield	48.7	50.8	Slight/ Moderate adverse	48.8	50.9	Slight/ Moderate adverse
06	Ashton Farm	47.9	56.5	Large/ Very Large adverse	49.1	57.8	Large/ Very Large adverse
07	49 Cranmore Drive	49.7	50.7	Slight/ Moderate adverse	50.7	51.7	Slight/ Moderate adverse
08	Stratton Farmhouse	63.5	64.2	Slight adverse	66.7	67.4	Slight adverse
09	Seafield of Raigmore	55.6	55.5	Slight beneficial	57.7	57.6	Slight beneficial
10	281 Mackintosh Road	65.7	65.7	Neutral	65.7	65.7	Neutral

2.1.4

Table 2 shows that, for Option 1B, at ground floor level and without mitigation, four of the sample NSRs are predicted to have a Large/Very Large adverse significance. Two NSRs are predicted to have a Slight/Moderate adverse significance, one NSR is predicted to have a Slight adverse significance, one NSR is predicted to have a Neutral significance and two NSRs are predicted to have a Slight beneficial significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 3: Sample NSRs – Option 2A – DM 2021 vs. DS 2021 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 2A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 2A DM 2021	Opt 2A DS 2021	Opt 2A Significance of Impact	Opt 2A DM 2021	Opt 2A DS 2021	Opt 2A Significance of Impact
01	27 Woodgrove Crescent	56.7	73.2	Large/ Very Large adverse	57.8	73.7	Large/ Very Large adverse
02	7 Inshes Holdings	62.1	62.0	Slight beneficial	-	-	-
03	Thistlefield	51.5	57.6	Large/ Very Large adverse	54.1	59.5	Large/ Very Large adverse
04	9 Cradlehall Meadows	51.3	56.4	Large/ Very Large adverse	52.1	57.3	Large/ Very Large adverse
05	Annfield	48.1	49.2	Slight/ Moderate adverse	48.8	49.9	Slight/ Moderate adverse
06	Ashton Farm	46.7	50.3	Moderate/ Large adverse	48.9	52.4	Moderate/ Large adverse
07	49 Cranmore Drive	51.3	51.8	Slight adverse	50.7	51.2	Slight adverse

ID	Address	Option 2A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 2A DM 2021	Opt 2A DS 2021	Opt 2A Significance of Impact	Opt 2A DM 2021	Opt 2A DS 2021	Opt 2A Significance of Impact
08	Stratton Farmhouse	64.6	65.2	Slight adverse	66.7	67.3	Slight adverse
09	Seafield of Raigmore	55.6	55.6	Neutral	57.7	57.7	Neutral
10	281 Mackintosh Road	65.7	65.7	Neutral	67.3	67.2	Slight beneficial

2.1.5 Table 3 shows that, for Option 2A, at ground floor level and without mitigation, three of the sample NSRs are predicted to have a Large/Very Large adverse significance. One NSR is predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance, two NSRs are predicted to have a Slight adverse significance, two NSRs are predicted to have a Neutral significance and one NSR is predicted to have a Slight beneficial significance. In terms of significance, the results are the same at first floor level, where applicable, with the exception of 281 Mackintosh Road (ID 10), although it should be noted that there would be no perceptible noise change at either floor level.

Table 4: Sample NSRs – Option 2B – DM 2021 vs. DS 2021 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 2B Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 2B DM 2021	Opt 2B DS 2021	Opt 2B Significance of Impact	Opt 2B DM 2021	Opt 2B DS 2021	Opt 2B Significance of Impact
01	27 Woodgrove Crescent	56.7	73.2	Large/ Very Large adverse	57.8	73.7	Large/ Very Large adverse
02	7 Inshes Holdings	62.1	62.0	Slight beneficial	-	-	-
03	Thistlefield	51.5	57.6	Large/ Very Large adverse	54.1	59.5	Large/ Very Large adverse
04	9 Cradlehall Meadows	49.9	58.2	Large/ Very Large adverse	50.6	59.0	Large/ Very Large adverse
05	Annfield	48.7	50.8	Slight/ Moderate adverse	49.4	51.4	Slight/ Moderate adverse
06	Ashton Farm	47.9	56.5	Large/ Very Large adverse	49.1	57.8	Large/ Very Large adverse
07	49 Cranmore Drive	49.7	50.6	Slight adverse	50.7	51.6	Slight adverse
08	Stratton Farmhouse	64.6	65.2	Slight adverse	59.3	60.0	Slight adverse
09	Seafield of Raigmore	60.4	60.3	Slight beneficial	57.7	57.6	Slight beneficial
10	281 Mackintosh Road	65.7	65.7	Neutral	67.3	67.2	Slight beneficial

2.1.6 Table 4 shows that, for Option 2B, at ground floor level and without mitigation, four of the sample NSRs are predicted to have a Large/Very Large adverse significance. One NSR is predicted to have a Slight/Moderate adverse significance, two NSRs are predicted to have a Slight adverse significance, one NSR is predicted to have a Slight beneficial significance and one NSR is predicted to have a Slight/Moderate beneficial significance. In terms of significance, the results are the same at first floor level, with the exception of 281 Mackintosh Road (ID 10), although it should be noted that there would be no perceptible noise change at either floor level.

Table 5: Sample NSRs – Option 3A – DM 2021 vs. DS 2021 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 3A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 3A DM 2021	Opt 3A DS 2021	Opt 3A Significance of Impact	Opt 3A DM 2021	Opt 3A DS 2021	Opt 3A Significance of Impact
01	27 Woodgrove Crescent	55.0	55.2	Slight adverse	55.8	56.1	Slight adverse
02	7 Inshes Holdings	65.5	65.7	Slight adverse	-	-	-
03	Thistlefield	59.2	59.1	Slight beneficial	60.4	60.3	Slight beneficial
04	9 Cradlehall Meadows	51.3	55.7	Moderate/ Large adverse	52.1	56.6	Moderate/ Large adverse
05	Annfield	48.1	48.9	Slight adverse	48.8	49.6	Slight adverse
06	Ashton Farm	46.7	49.1	Slight/ Moderate adverse	48.9	51.3	Slight/ Moderate adverse
07	49 Cranmore Drive	51.3	51.8	Slight adverse	50.7	51.2	Slight adverse
08	Stratton Farmhouse	64.6	65.2	Slight adverse	66.7	67.3	Slight adverse
09	Seafield of Raigmore	55.6	55.6	Neutral	57.7	57.7	Neutral
10	281 Mackintosh Road	65.7	65.7	Neutral	67.3	67.3	Neutral

2.1.7

Table 5 shows that, for Option 3A, at ground floor level and without mitigation, one sample NSR is predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance, five NSRs are predicted to have a Slight adverse significance, two NSRs are predicted to have a Neutral significance and one NSRs is predicted to have a Slight beneficial significance. In terms of significance, the results are the same at first floor level.

Table 6: Sample NSRs – Option 3B – DM 2021 vs. DS 2021 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 3B Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 3B DM 2021	Opt 3B DS 2021	Opt 3B Significance of Impact	Opt 3B DM 2021	Opt 3B DS 2021	Opt 3B Significance of Impact
01	27 Woodgrove Crescent	55.0	55.2	Slight adverse	55.8	56.0	Slight adverse
02	7 Inshes Holdings	65.5	65.8	Slight adverse	-	-	-
03	Thistlefield	57.2	57.3	Slight adverse	58.9	58.9	Neutral
04	9 Cradlehall Meadows	49.9	57.1	Large/ Very Large adverse	50.6	57.9	Large/ Very Large adverse
05	Annfield	48.7	50.2	Slight/ Moderate adverse	49.4	50.9	Slight/ Moderate adverse
06	Ashton Farm	47.9	55.3	Large/ Very Large adverse	49.1	56.6	Large/ Very Large adverse
07	49 Cranmore Drive	49.7	50.5	Slight adverse	50.7	51.5	Slight adverse
08	Stratton Farmhouse	64.6	65.2	Slight adverse	66.7	67.3	Slight adverse
09	Seafield of Raigmore	50.5	50.5	Neutral	62.4	62.3	Slight beneficial

ID	Address	Option 3B Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 3B DM 2021	Opt 3B DS 2021	Opt 3B Significance of Impact	Opt 3B DM 2021	Opt 3B DS 2021	Opt 3B Significance of Impact
10	281 Mackintosh Road	65.7	65.7	Neutral	67.3	67.3	Neutral

2.1.8 Table 6 shows that, for Option 3B, at ground floor level and without mitigation, two of the sample NSRs are predicted to have a Large/Very Large adverse significance. Five NSRs are predicted to have a Slight adverse significance, two NSRs are predicted to have a Neutral significance and one NSR is predicted to have a Slight beneficial significance. In terms of significance, the results are the same at first floor level, where applicable, with the exception of Thistlefield (ID 03) and Seafield of Raigmore (ID 09), although it should be noted that there would be no perceptible noise change at either floor level for either NRS.

3 Long-Term Assessment with the Proposed Scheme

3.1 Day

3.1.1 The predicted road traffic noise levels at the sample NSRs for the DM 2021 and DS 2036 with the associated long-term significance of impact for the daytime period are presented in Tables 7 to 12, for each route option.

Table 7: Sample NSRs – Option 1A – DM 2021 vs. DS 2036 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 1A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 1A DM 2021	Opt 1A DS 2036	Opt 1A Significance of Impact	Opt 1A DM 2021	Opt 1A DS 2036	Opt 1A Significance of Impact
01	27 Woodgrove Crescent	56.7	73.1	Large/ Very Large adverse	57.8	73.6	Large/ Very Large adverse
02	7 Inshes Holdings	75.2	75.8	Slight adverse	-	-	-
03	Thistlefield	51.5	58.7	Moderate/ Large adverse	54.1	61.1	Moderate/ Large adverse
04	9 Cradlehall Meadows	51.3	57.7	Moderate/ Large adverse	52.1	58.6	Moderate/ Large adverse
05	Annfield	48.7	50.7	Slight adverse	48.8	50.8	Slight adverse
06	Ashton Farm	46.7	51.1	Slight/ Moderate adverse	48.9	53.2	Slight/ Moderate adverse
07	49 Cranmore Drive	49.7	51.1	Slight adverse	50.7	52.1	Slight adverse
08	Stratton Farmhouse	56.6	57.9	Slight adverse	59.3	60.7	Slight adverse
09	Seafield of Raigmore	55.6	56.0	Slight adverse	57.7	58.0	Slight adverse
10	281 Mackintosh Road	65.7	66.4	Slight adverse	63.4	64.1	Slight adverse

3.1.2 Table 7 shows that, for Option 1A, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance. Two NSRs are predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance and six NSRs are predicted to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 8: Sample NSRs – Option 1B – DM 2021 vs. DS 2036 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 1B Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 1B DM 2021	Opt 1B DS 2036	Opt 1B Significance of Impact	Opt 1B DM 2021	Opt 1B DS 2036	Opt 1B Significance of Impact
01	27 Woodgrove Crescent	56.7	73.1	Large/ Very Large adverse	57.8	73.6	Large/ Very Large adverse
02	7 Inshes Holdings	75.2	75.8	Slight adverse	-	-	-
03	Thistlefield	51.5	58.7	Moderate/ Large adverse	54.1	61.1	Moderate/ Large adverse
04	9 Cradlehall Meadows	49.9	59.7	Moderate/ Large adverse	50.6	60.4	Moderate/ Large adverse
05	Annfield	48.1	51.2	Slight/ Moderate adverse	49.4	52.4	Slight/ Moderate adverse
06	Ashton Farm	47.9	57.6	Moderate/ Large adverse	49.1	58.8	Moderate/ Large adverse
07	49 Cranmore Drive	49.7	51.5	Slight adverse	50.7	52.5	Slight adverse
08	Stratton Farmhouse	56.6	58.0	Slight adverse	59.3	60.7	Slight adverse
09	Seafield of Raigmore	50.9	51.2	Slight adverse	61.3	61.5	Slight adverse
10	281 Mackintosh Road	65.7	66.4	Slight adverse	63.4	64.1	Slight adverse

3.1.3

Table 8 shows that, for Option 1B, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance. Three NSRs are predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance and five NSRs are predicted to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 9: Sample NSRs – Option 2A – DM 2021 vs. DS 2036 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 2A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 2A DM 2021	Opt 2A DS 2036	Opt 2A Significance of Impact	Opt 2A DM 2021	Opt 2A DS 2036	Opt 2A Significance of Impact
01	27 Woodgrove Crescent	56.7	74.3	Large/ Very Large adverse	57.8	74.8	Large/ Very Large adverse
02	7 Inshes Holdings	62.1	62.8	Slight adverse	-	-	-
03	Thistlefield	51.5	58.7	Moderate/ Large adverse	54.1	60.6	Moderate/ Large adverse
04	9 Cradlehall Meadows	51.3	57.7	Moderate/ Large adverse	52.1	58.6	Moderate/ Large adverse
05	Annfield	48.7	50.7	Slight adverse	49.4	51.4	Slight adverse
06	Ashton Farm	46.7	51.4	Slight/ Moderate adverse	48.9	53.5	Slight/ Moderate adverse
07	49 Cranmore Drive	49.7	51.0	Slight adverse	50.7	52.0	Slight adverse
08	Stratton Farmhouse	56.6	57.9	Slight adverse	58.2	59.6	Slight adverse
09	Seafield of Raigmore	55.6	56.0	Slight adverse	57.7	58.1	Slight adverse

ID	Address	Option 2A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 2A DM 2021	Opt 2A DS 2036	Opt 2A Significance of Impact	Opt 2A DM 2021	Opt 2A DS 2036	Opt 2A Significance of Impact
10	281 Mackintosh Road	62.6	63.2	Slight adverse	65.7	66.2	Slight adverse

3.1.4 Table 9 shows that, for Option 2A, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance. Two NSRs are predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance and six NSRs are predicted to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 10: Sample NSRs – Option 2B – DM 2021 vs. DS 2036 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 2B Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 2B DM 2021	Opt 2B DS 2036	Opt 2B Significance of Impact	Opt 2B DM 2021	Opt 2B DS 2036	Opt 2B Significance of Impact
01	27 Woodgrove Crescent	56.7	74.3	Large/ Very Large adverse	57.8	74.8	Large/ Very Large adverse
02	7 Inshes Holdings	62.1	62.8	Slight adverse	-	-	-
03	Thistlefield	51.5	58.7	Moderate/ Large adverse	54.1	60.6	Moderate/ Large adverse
04	9 Cradlehall Meadows	49.9	59.7	Moderate/ Large adverse	50.6	60.4	Moderate/ Large adverse
05	Annfield	48.7	51.8	Slight/ Moderate adverse	48.8	51.9	Slight/ Moderate adverse
06	Ashton Farm	47.9	57.7	Moderate/ Large adverse	49.1	59.0	Moderate/ Large adverse
07	49 Cranmore Drive	49.7	51.5	Slight adverse	50.7	52.5	Slight adverse
08	Stratton Farmhouse	56.6	58.0	Slight adverse	59.3	60.7	Slight adverse
09	Seafield of Raigmore	55.6	55.9	Slight adverse	57.7	58.0	Slight adverse
10	281 Mackintosh Road	62.6	63.2	Slight adverse	65.7	66.2	Slight adverse

3.1.5 Table 10 shows that, for Option 2B, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance. Three NSRs are predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance and five NSRs are predicted to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 11: Sample NSRs – Option 3A – DM 2021 vs. DS 2036 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 3A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 3A DM 2021	Opt 3A DS 2036	Opt 3A Significance of Impact	Opt 3A DM 2021	Opt 3A DS 2036	Opt 3A Significance of Impact
01	27 Woodgrove	54.6	55.6	Slight adverse	55.8	56.8	Slight adverse

ID	Address	Option 3A Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 3A DM 2021	Opt 3A DS 2036	Opt 3A Significance of Impact	Opt 3A DM 2021	Opt 3A DS 2036	Opt 3A Significance of Impact
	Crescent						
02	7 Inshes Holdings	65.5	66.5	Slight adverse	-	-	-
03	Thistlefield	59.2	59.9	Slight adverse	60.4	61.1	Slight adverse
04	9 Cradlehall Meadows	51.3	56.9	Moderate/ Large adverse	52.1	57.8	Moderate/ Large adverse
05	Annfield	48.1	49.7	Slight adverse	48.8	50.4	Slight adverse
06	Ashton Farm	46.7	50.1	Slight/ Moderate adverse	48.9	52.3	Slight/ Moderate adverse
07	49 Cranmore Drive	49.7	50.9	Slight adverse	50.7	51.9	Slight adverse
08	Stratton Farmhouse	56.6	57.9	Slight adverse	59.3	60.6	Slight adverse
09	Seafield of Raigmore	57.1	57.5	Slight adverse	58.1	58.4	Slight adverse
10	281 Mackintosh Road	62.6	63.3	Slight adverse	65.7	66.3	Slight adverse

3.1.6 Table 11 shows that, for Option 3A, at ground floor level and without mitigation, one sample NSR is predicted to have a Moderate/Large adverse significance, one NSR is predicted to have a Slight/Moderate adverse significance and eight NSRs are predicted to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 12: Sample NSRs – Option 3B – DM 2021 vs. DS 2036 – Day (Without Receptor Specific Mitigation)

ID	Address	Option 3B Predicted $L_{A10,18h}$ (dB) Noise Level (Façade)					
		Ground Floor			First Floor		
		Opt 3B DM 2021	Opt 3B DS 2036	Opt 3B Significance of Impact	Opt 3B DM 2021	Opt 3B DS 2036	Opt 3B Significance of Impact
01	27 Woodgrove Crescent	55.0	55.9	Slight adverse	55.8	56.8	Slight adverse
02	7 Inshes Holdings	65.5	66.6	Slight adverse	-	-	-
03	Thistlefield	57.2	58.2	Slight adverse	58.9	59.8	Slight adverse
04	9 Cradlehall Meadows	49.9	58.4	Moderate/ Large adverse	50.6	59.2	Moderate/ Large adverse
05	Annfield	48.1	50.6	Slight adverse	48.8	51.3	Slight adverse
06	Ashton Farm	47.9	56.6	Moderate/ Large adverse	49.1	57.9	Moderate/ Large adverse
07	49 Cranmore Drive	49.7	51.3	Slight adverse	50.7	52.3	Slight adverse
08	Stratton Farmhouse	56.3	57.6	Slight adverse	59.3	60.6	Slight adverse
09	Seafield of Raigmore	57.1	57.5	Slight adverse	58.1	58.4	Slight adverse
10	281 Mackintosh Road	62.6	63.3	Slight adverse	65.7	66.3	Slight adverse

3.1.7 Table 12 shows that, for Option 3B, at ground floor level and without mitigation, two of the sample NSRs are predicted to have a Moderate/Large adverse significance and eight NSRs are predicted

to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

3.2 Night

3.2.1 The predicted road traffic noise levels at the sample NSRs for the DM 2021 and DS 2036 with the associated long-term significance of impact for the night-time period are presented in Tables 13 to 18, for each route option. Only dwellings predicted to be subject to free-field noise levels exceeding 55dB $L_{\text{night, outside}}$ have been reported, as per the night-time assessment methodology of DMRB 'Noise and Vibration'.

Table 13: Sample NSRs – Option 1A – DM 2021 vs. DS 2036 – Night (Without Receptor Specific Mitigation)

ID	Address	Option 1A Predicted $L_{\text{night, outside}}$ (dB) Noise Level (Free-Field)					
		Ground Floor			First Floor		
		Opt 1A DM 2021	Opt 1A DS 2036	Opt 1A Significance of Impact	Opt 1A DM 2021	Opt 1A DS 2036	Opt 1A Significance of Impact
01	27 Woodgrove Crescent	45.0	59.8	Large/ Very Large adverse	46.0	60.2	Large/ Very Large adverse
02	7 Inshes Holdings	61.7	62.2	Slight adverse	-	-	-

3.2.2 Table 13 shows that, for Option 1A, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance and one NSR is predicted to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 14: Sample NSRs – Option 1B – DM 2021 vs. DS 2036 – Night (Without Receptor Specific Mitigation)

ID	Address	Option 1B Predicted $L_{\text{night, outside}}$ (dB) Noise Level (Free-Field)					
		Ground Floor			First Floor		
		Opt 1B DM 2021	Opt 1B DS 2036	Opt 1B Significance of Impact	Opt 1B DM 2021	Opt 1B DS 2036	Opt 1B Significance of Impact
01	27 Woodgrove Crescent	45.0	59.8	Large/ Very Large adverse	46.0	60.2	Large/ Very Large adverse
02	7 Inshes Holdings	61.7	62.2	Slight adverse	-	-	-

3.2.3 Table 14 shows that, for Option 1B, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance and one NSR is predicted to have a Slight adverse significance. In terms of significance, the results are the same at first floor level, where applicable.

Table 15: Sample NSRs – Option 2A – DM 2021 vs. DS 2036 – Night (Without Receptor Specific Mitigation)

ID	Address	Option 2A Predicted $L_{\text{night, outside}}$ (dB) Noise Level (Free-Field)					
		Ground Floor			First Floor		
		Opt 2A DM 2021	Opt 2A DS 2036	Opt 2A Significance of Impact	Opt 2A DM 2021	Opt 2A DS 2036	Opt 2A Significance of Impact
01	27 Woodgrove Crescent	45.0	60.8	Large/ Very Large adverse	46.0	61.3	Large/ Very Large adverse

3.2.4 Table 15 shows that, for Option 2A, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance. In terms of significance, the results are the same at first floor level.

Table 16: Sample NSRs – Option 2B – DM 2021 vs. DS 2036 – Night (Without Receptor Specific Mitigation)

ID	Address	Option 2B Predicted $L_{\text{night, outside}}$ (dB) Noise Level (Free-Field)					
		Ground Floor			First Floor		
		Opt 2B DM 2021	Opt 2B DS 2036	Opt 2B Significance of Impact	Opt 2B DM 2021	Opt 2B DS 2036	Opt 2B Significance of Impact
01	27 Woodgrove Crescent	45.0	60.8	Large/ Very Large adverse	46.0	61.3	Large/ Very Large adverse

3.2.5 Table 16 shows that, for Option 2B, at ground floor level and without mitigation, one of the sample NSRs is predicted to have a Large/Very Large adverse significance. In terms of significance, the results are the same at first floor level.

3.2.6 For Option 3A, at ground floor and first floor levels and without mitigation, none of the sample NSRs are predicted to experience a night-time road traffic noise level greater than or equal to 55dB $L_{\text{night, outside}}$.

3.2.7 For Option 3B, at ground floor and first floor levels and without mitigation, none of the sample NSRs are predicted to experience a night-time road traffic noise level greater than or equal to 55dB $L_{\text{night, outside}}$.