Appendix 17.4

Road Traffic Noise Modelling Results



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1 Operational Road Traffic Noise Results

1.1 Detailed Road Traffic Noise Calculations

- 1.1.1 The tables below present the road traffic noise modelling results for Project 7. For those receptors identified to comprise of a single storey (e.g. bungalow), modelling results at 1.5m above ground are presented. For those receptors identified to comprise of two storeys (e.g. house) noise modelling results at 4m above ground are presented.
- 1.1.2 Where a building is predicted to experience different changes in noise level on different façades, the least beneficial change in the level of road traffic noise is reported in the assessment tables. For example, where all façades show a decrease in road traffic noise, then the smallest decrease is reported. Or where all façades show an increase in road traffic noise level, then the largest increase is reported. The least beneficial change for each receptor is reported in **Table 1** and **Table 2**. It should be noted, that even where the same façade is being used for the various comparisons, this could still lead to a different Do-Minimum noise level being quoted in the **Tables 1 and 2**. The noise modelling package calculates the noise level at several points on any one façade, which can lead to a different calculation point, and hence different noise level, being used for each comparison
- 1.1.3 At some locations, the least beneficial change in road traffic noise levels does not occur on the façade that faces towards the A9, where the highest road traffic noise level occurs. For these receptors, an additional table of results is provided (**Table 3**) that presents the change on the façade with the highest road traffic noise level, usually facing towards the A9.

Receptor	Building Type	Façade Direction	Do-Minimum 2026	Do-Minimum 2041
Dalnaspidal Lodge	House	S/E	50.1	49.3
Staff Cottage	House	S/E	50.9	50.2
Keepers House	House	East	52.6	51.6
Headkeepers House	House	South	48.8	47.8
Station House	House	S/E	53.0	50.3
School Cottage	House	South	54.4	53.0
Dalnaspidal Farm	House	S/E	53.7	52.2
Balsporran Cottage	House	East	60.5	57.6
North Drumochter Cottage	House	North	54.1	51.2
Drumochter Lodge	House	North	58.4	55.8
Schoolhouse	House	South	54.0	52.4
2 - Station Cottages	House	S/W	51.3	48.3
1 - Station Cottages	House	S/E	56.1	53.2

 Table 1: Calculated Road Traffic Noise Levels in Do-Minimum Scenario for Least Beneficial Change, Façade (LA10,18h dB)



Receptor	Façade Direction	Do-Minimum 2026	Do-Something 2026	Do-Something 2041
Dalnaspidal Lodge	S/E	49.3	49.5	49.8
Staff Cottage	S/E	50.9	51.4	51.6
Keepers House	West	43.3	43.3	43.5
Headkeepers House	South	48.8	48.8	49.1
Station House	S/E	53.0	51.3	51.6
School Cottage	South	54.5	52.2	52.5
Dalnaspidal Farm	S/E	53.7	52.8	53.0
Balsporran Cottage	West	51.1	49.7	50.7
North Drumochter Cottage	North	53.6	54.7	55.0
Drumochter Lodge	East	52.4	54.8	55.1
Schoolhouse	West	55.2	53.4	53.7
2 - Station Cottages	S/W	51.6	49.1	49.3
1 - Station Cottages	S/E	56.1	54.0	54.3

 Table 2: Calculated Road Traffic Noise Levels in Do-Something Scenario for Least Beneficial Change, Façade (LA10,18h dB)

Table 3: Calculated Road Traffic Noise Levels in Do-Something Scenario for Façade with Highest Do-
Something Noise Level, Façade (LA10,18h dB)

Receptor	Façade Direction	Do-Minimum 2026	Do-Something 2026	Do-Something 2041
Dalnaspidal Lodge	N/E	54.6	53.1	53.4
Staff Cottage	N/E	52.3	51.8	52.0
Keepers House	North	54.7	53.3	53.5
Headkeepers House	East	53.9	53.0	53.3
Station House	N/E	56.6	53.3	53.6
School Cottage	North	61.9	57.1	57.4
Dalnaspidal Farm	N/E	56.5	54.5	54.8
Balsporan Cottage	East	60.5	59.5	59.8
North Drumochter Cottage	West	57.6	57.4	57.7
Drumochter Lodge	North	63.8	60.8	61.1
Schoolhouse	North	61.9	56.8	57.1
2 Station Cottages	N/E	59.2	56.0	56.3
1 Station Cottages	N/E	59.2	56.1	56.4



1.1.4 The following table presents the calculated road traffic noise levels for nature conservation designated sites and public rights of way. For most receptors, several locations were calculated, and the worst case change in noise is presented.

 Table 4: Calculated Road Traffic Noise Levels for Designated Sites and Public Rights of Way (LA10,18h dB Free-Field)

Receptor	Do Mininum 2026	Do Mininmum 2041	Do Something 2026	Do Something 2041
NMU1	65.1	64.4	64.3	64.6
NMU2	52.1	50.1	50.4	50.7
NMU3	52.1	50.1	50.4	50.7
NMU4	52.1	50.1	50.4	50.7
NMU5	52.8	50.0	54.5	54.8
NMU6	52.5	49.4	51.0	51.3
NMU7	60.1	57.4	58.8	59.1
NMU8	62.5	59.8	61.9	62.2
River Spey SAC	54.8	52.0	54.5	54.8
Drumochter Hills SSSI	60.7	57.9	64.0	64.2
Drumochter Hills SAC	60.7	57.9	64.0	64.2
Drumochter Hills SPA	60.7	57.9	64.0	64.2



