

Appendix 17.4

Operational Road Traffic Noise Results

Contents

1	Operational Road Traffic Noise Results	1
1.1	Detailed Road Traffic Noise Calculations	1
1.2	Basic Noise Level Road Traffic Noise Calculations	6

Tables

Table 1:	Calculated Road Traffic Noise Levels in Do-Minimum Scenario, Façade LA _{10,18h} dB	1
Table 2:	Calculated Road Traffic Noise Levels in Do-Something Scenario for Least Beneficial Change, Façade LA _{10,18h} dB	3
Table 3:	Calculated Road Traffic Noise Levels in Do-Something Scenario for Highest Do-Something Façade level, Façade LA _{10,18h} dB	4
Table 4:	Calculated Road Traffic Noise Levels for Designated Sites and Public Rights of Way, LA _{10,18h} dB Free-Field	6
Table 5:	Calculated Road Traffic BNL, LA _{10,18h} dB	6

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 8. 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 **Table 1** and **Table 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.

Table 1: Calculated Road Traffic Noise Levels in Do-Minimum Scenario, Façade LA_{10,18h} dB

Receptor	Building Type	Façade Direction	Do-Minimum 2026	Do-Minimum 2041
Birch View	Bungalow	North	47.1	45.3
3 Truim View	House	West	48.4	48.1
1 Truim View	House	South	54.7	54.5
2 Truim View	House	N/W	50.5	50.4
4 Truim View	House	West	49.4	49.2
Glenisla	House	South	52.4	51.9
Glenlochsie	House	West	50.2	50.4
The Inn at Loch Ericht	House	West	60.9	61.4
Woodside	House	North	53.1	52.4
1 Ben Alder Cottages	House	West	45.4	44.2
2 Ben Alder Cottages	House	West	45.2	44.1
3 Ben Alder Cottages	House	West	44.7	43.6
1 Loch Ericht Cottages	House	North	49.4	47.9
2 Loch Ericht Cottages	House	North	49.2	47.6
Fern Cottage	Bungalow	South	53.0	52.6
Bracken Cottage	Bungalow	East	57.2	57.0
Aldersyde	Bungalow	East	55.4	54.9
School House	House	N/W	41.5	39.3
Grampian View	House	S/W	46.5	44.4

Receptor	Building Type	Façade Direction	Do-Minimum 2026	Do-Minimum 2041
5 Ben Alder Road	House	East	50.4	47.9
6 Ben Alder Road	House	East	50.4	47.9
7 Ben Alder Road	House	East	50.4	47.9
8 Ben Alder Road	House	South	47.1	44.9
9 Ben Alder Road	House	East	49.8	47.3
10 Ben Alder Road	House	South	46.7	44.4
Monadhliath, Ben Alder Road	House	South	47.3	45.0
Station House	House	South	44.9	42.9
1 Station Cottages, Station Road	House	West	41.2	39.2
2 Station Cottages, Station Road	House	West	41.0	39.0
3 Station Cottages, Station Road	House	West	41.0	39.1
4 Station Cottages, Station Road	House	West	41.0	39.1
9 Distillery Cottage	House	West	41.4	39.6
10 Distillery Cottage	House	West	41.5	39.7
By-The-Way	House	West	40.9	39.3
Old Toll House	House	South	54.9	55.1
Tigh Fhothannan	House	North	53.8	53.6
The Bungalow	Bungalow	S/E	51.6	51.9
Truimbank	Bungalow	West	56.8	57.2
Tigh na Sigha	House	West	46.2	45.9
8 Distillery Cottage	Bungalow	North	49.2	47.7
7 Distillery Cottage	House	North	50.1	48.8
6 Distillery Cottage	House	West	45.5	44.8
5 Distillery Cottage	Bungalow	West	44.3	44.4
Brewers House	House	North	45.9	45.3
Dalwhinnie Beag	House	N/E	41.8	41.4
Heatherlea Cottage	House	N/W	41.5	40.8
4 Cuaich Cottages	Bungalow	N/E	57.9	56.6
1 Cuaich Cottages	Bungalow	East	57.3	56.1
2 Cuaich Cottages	Bungalow	S/E	58.6	57.3
Willit Cottage	Bungalow	S/E	59.6	58.4
3 Cuaich Cottages	Bungalow	N/E	57.0	55.8
Truim Cottage	Bungalow	North	52.9	51.8
Crubenmore Lodge	House	N/E	53.1	51.6
Crubenmore Cottage	House	North	54.1	52.4
Dalwhinnie Village Hall	Other Sensitive, Single Storey	West	58.7	58.0

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

Receptor	Façade Direction	Do-Minimum 2026	Do-Something 2026	Do-Something 2041
Birch View	South	47.5	46.4	46.7
3 Truim View	West	48.4	48.9	49.4
1 Truim View	South	54.7	54.8	55.4
2 Truim View	N/W	50.5	51.2	51.6
4 Truim View	West	49.4	49.7	50.2
Glenisla	North	53.7	53.5	54.1
Glenlochsie	West	50.2	50.6	51.2
The Inn at Loch Ericht	West	55.9	55.6	56.4
Woodside	North	53.1	52.9	53.4
1 Ben Alder Cottages	North	51.1	50.3	50.8
2 Ben Alder Cottages	North	50.7	49.8	50.3
3 Ben Alder Cottages	North	50.0	49.0	49.5
1 Loch Ericht Cottages	South	51.6	50.4	50.8
2 Loch Ericht Cottages	South	51.5	50.3	50.6
Fern Cottage	North	48.0	48.1	48.6
Bracken Cottage	North	53.8	53.4	54.0
Aldersyde	North	51.3	51.4	51.9
School House	N/E	48.7	47.7	48.1
Grampian View	N/W	40.3	39.3	39.7
5 Ben Alder Road	West	41.0	39.9	40.3
6 Ben Alder Road	West	40.5	39.4	39.8
7 Ben Alder Road	East	50.4	49.2	49.5
8 Ben Alder Road	West	40.4	39.3	39.6
9 Ben Alder Road	North	46.9	45.8	46.2
10 Ben Alder Road	West	40.4	39.2	39.6
Monadhliath, Ben Alder Road	South	39.8	38.9	39.3
Station House	West	41.6	40.9	41.3
1 Station Cottages, Station Road	West	41.2	40.7	41.0
2 Station Cottages, Station Road	West	41.0	40.4	40.8
3 Station Cottages, Station Road	West	41.0	40.6	41.0
4 Station Cottages, Station Road	West	41.0	40.6	41.0
9 Distillery Cottage	West	41.4	40.9	41.3
10 Distillery Cottage	West	41.5	41.1	41.5
By-The-Way	West	40.9	40.5	40.9
Old Toll House	South	54.9	53.7	54.7
Tigh Fhothannan	North	53.8	54.2	54.7
The Bungalow	North	50.1	50.0	50.6
Truimbank	West	56.8	56.3	57.2
Tigh na Sigha	West	46.2	47.2	47.7

Receptor	Façade Direction	Do-Minimum 2026	Do-Something 2026	Do-Something 2041
8 Distillery Cottage	North	49.2	49.1	49.5
7 Distillery Cottage	North	50.1	50.1	50.5
6 Distillery Cottage	West	45.5	45.9	46.3
5 Distillery Cottage	West	44.3	45.3	45.8
Brewers House	North	45.9	46.3	46.8
Dalwhinnie Beag	N/E	41.8	42.5	43.0
Heatherlea Cottage	N/W	41.5	42.1	42.6
4 Cuaich Cottages	N/W	47.3	47.9	48.2
1 Cuaich Cottages	West	46.9	47.8	48.1
2 Cuaich Cottages	S/W	50.5	51.1	51.4
Willit Cottage	N/W	48.0	48.5	48.8
3 Cuaich Cottages	N/W	44.2	44.7	45.0
Truim Cottage	West	45.9	46.3	46.7
Crubenmore Lodge	N/E	53.1	53.5	53.9
Crubenmore Cottage	North	54.1	53.9	54.2
Dalwhinnie Village Hall	North	55.4	55.3	55.9

Table 3: Calculated Road Traffic Noise Levels in Do-Something Scenario for Highest Do-Something Façade level, Façade $L_{A10,18h}$ dB

Receptor	Façade Direction	Do-Minimum 2026	Do-Something 2026	Do-Something 2041
Birch View	East	49.6	49.6	48.4
3 Truim View	East	53.4	53.4	52.2
1 Truim View	West	58.0	58.0	58.7
2 Truim View	N/E	53.3	53.3	52.9
4 Truim View	East	53.4	53.4	52.2
Glenisla	West	62.3	62.3	61.9
Glenlochsie	South	53.3	53.3	53.3
The Inn at Loch Ericht	West	60.9	60.9	60.5
Woodside	East	57.4	57.4	57.0
1 Ben Alder Cottages	East	54.8	54.8	54.0
2 Ben Alder Cottages	South	52.8	52.8	51.8
3 Ben Alder Cottages	South	52.4	52.4	51.3
1 Loch Ericht Cottages	East	52.9	52.9	52.0
2 Loch Ericht Cottages	South	51.5	51.5	50.6
Fern Cottage	East	55.5	55.5	55.7
Bracken Cottage	East	57.2	57.2	57.4
Aldersyde	East	55.4	55.4	55.8
School House	S/E	50.6	50.6	49.8
Grampian View	S/E	50.5	50.5	49.6
5 Ben Alder Road	East	50.4	50.4	49.5
6 Ben Alder Road	East	50.4	50.4	49.5

Receptor	Façade Direction	Do-Minimum 2026	Do-Something 2026	Do-Something 2041
7 Ben Alder Road	East	50.4	50.4	49.5
8 Ben Alder Road	East	50.3	50.3	49.5
9 Ben Alder Road	East	49.8	49.8	48.9
10 Ben Alder Road	East	49.8	49.8	48.9
Monadhiath, Ben Alder Road	East	49.3	49.3	48.5
Station House	East	48.4	48.4	47.5
1 Station Cottages, Station Road	East	50.6	50.6	49.7
2 Station Cottages, Station Road	East	50.6	50.6	49.8
3 Station Cottages, Station Road	East	50.6	50.6	49.8
4 Station Cottages, Station Road	East	50.6	50.6	49.8
9 Distillery Cottage	East	50.3	50.3	49.5
10 Distillery Cottage	East	50.7	50.7	50.0
By-The-Way	East	51.7	51.7	51.0
Old Toll House	East	64.1	64.1	62.8
Tigh Fhothannan	East	56.4	56.4	57.1
The Bungalow	S/E	51.6	51.6	51.8
Truimbank	West	56.8	56.8	57.2
Tigh na Sigha	East	54.6	54.6	54.5
8 Distillery Cottage	East	53.5	53.5	53.0
7 Distillery Cottage	South	52.8	52.8	52.6
6 Distillery Cottage	South	52.3	52.3	52.2
5 Distillery Cottage	South	51.3	51.3	51.0
Brewers House	East	52.0	52.0	51.7
Dalwhinnie Beag	S/E	51.4	51.4	51.4
Heatherlea Cottage	S/E	49.4	49.4	49.0
4 Cuaich Cottages	S/E	60.2	60.2	60.2
1 Cuaich Cottages	East	57.3	57.3	57.0
2 Cuaich Cottages	S/E	58.8	58.8	58.7
Willit Cottage	S/E	60.0	60.0	60.0
3 Cuaich Cottages	S/E	59.2	59.2	59.3
Truim Cottage	East	57.8	57.8	57.2
Crubenmore Lodge	S/E	57.7	57.7	57.3
Crubenmore Cottage	East	56.5	56.5	56.4
Dalwhinnie Village Hall	West	58.7	58.7	59.1

1.1.4 The following table presents the calculated road traffic noise levels for 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, $L_{A10,18h}$ dB Free-Field

Receptor	DM 2026	DM 2041	DS 2026	DS 2041
Drumochter Hills SSSI	59.4	556.3	60.1	60.4
Drumochter Hills SAC	53.8	50.9	52.6	52.7
Drumochter Hills SPA	53.8	50.9	52.6	52.7
River Spey SAC	58.4	55.5	58.4	58.7
NMU1	47.6	45.7	48.2	48.5
NMU2	66.7	63.7	64.7	65.1
NMU3	59.4	56.3	60.1	60.4
NMU8	63.4	59.5	61.5	61.7
NMU10	46.1	43.9	46.1	46.4
NMU11	58.0	56.7	57.2	57.5
NMU12	54.8	53.4	54.8	55.2

1.2 Basic Noise Level Road Traffic Noise Calculations

1.2.1 The following **Table 5** presents the calculated basic noise level (BNL) noise levels.

Table 5: Calculated Road Traffic BNL, $L_{A10,18h}$ dB

Link ID	Road	No. of Dwelling in 50m	Do-Minimum 2026	Do-Minimum 2041	Do-Something 2026	Do-Something 2041
1477_1478+1478_1477	A889	1	59.8	60.3	61.0	61.4
1491_1492+1492_1491	A889	1	61.0	61.4	62.1	62.6
1502_1506+1506_1502	A889	2	61.4	61.9	62.7	63.2
1503_1504+1504_1503	A889	1	60.5	61.0	61.9	62.3
1507_1508+1508_1507	A889	2	60.4	60.8	61.5	62.0