

## Appendix A17.5: Noise Impacts on Amenity Areas

### 1 Introduction

1.1.1 As stated in Paragraph 17.4.57 of Chapter 17 (Noise and Vibration), an assessment of potential noise impacts on amenity areas and amenity lines within the calculation area have been undertaken. Table 1 provides a list of all the amenity areas (polygons) that have been considered in this assessment. Whilst Table 2 provides a list of all the amenity lines (polylines) that have been considered in this assessment.

**Table 1: Amenity areas (polygons) considered in the assessment**

Amenity Area ID	Amenity Area Information				
	Type of Amenity Area	Description of Amenity Area	Total Area of Amenity Area (m <sup>2</sup> )	Approximate Centre Point of Amenity Area	
				Easting	Northing
1	National Parks	Cairngorms National Park	20111432.7	281619	766829
2	Special Area of Conservation (SAC)	Tulach Hill and Glen Fender Meadows SAC	1923231.6	286089	764605
3	SAC	River Tay SAC	884262.1	286504	764730
4	SPA	Cairngorms Massif SPA	88541.3	292440	762011
5	Special Site of Scientific Interest (SSSI)	Pass of Killiecrankie SSSI	477677.0	291512	762159
6	SSSI	Tulach Hill SSSI	1927554.6	286094	764603
7	SSSI	Aldclune and Invervack Meadows SSSI	173344.1	286400	764885
8	SSSI	Glen Garry SSSI	180864.2	278124	767311
9	SSSI	Struan Wood SSSI	544061.5	279215	765890
10	SSSI	Ben Vrackie SSSI	89055.6	292439	762012
11	SSSI	Blair Atholl Meadow SSSI	5694.8	288291	764989
12	Gardens and Designed Landscapes	Blair Castle	2882464.8	285861	765424
13	Gardens and Designed Landscapes	Falls of Bruar	298168.5	281907	766261
14	Golf Course	Blair Atholl Golf Club	193197.3	287692	764835
15	Recreation Area	The River Tilt Park	12039.8	287553	765196
16	Recreation Area	Calvine Holiday Park	9686.3	280031	765713
17	Scheduled Monuments	Old Faskally Farm hut circles enclosure and field system 900m SE of (SM9516)	28919.2	292432	762566
18	Scheduled Monuments	Old Faskally Farm, church 100m WSE of (SM9566)	1182.7	291830	763129
19	Scheduled Monuments	Creag Odhar, dun on summit of	60.7	287655	763874
20	Scheduled Monuments	Tom an Tigh Mhoir, more W of Struan Church (SM3609)	2370.8	280747	765364
21	Scheduled Monuments	Clac na h'lobairt, standing stone, Blair Atholl	1.3	287615	765264

Amenity Area ID	Amenity Area Information				
	Type of Amenity Area	Description of Amenity Area	Total Area of Amenity Area (m <sup>2</sup> )	Approximate Centre Point of Amenity Area	
				Easting	Northing
		(SM1517)			
22	Scheduled Monuments	Claverhouse's Stone, standing stone 200m S of House of Urrad (SM1520)	318.8	290814	763197
23	Scheduled Monuments	Clac na h'lobairt, standing stone 300m E of Pitagowan (SM1517)	80.2	282151	765909
24	Scheduled Monuments	Struan Church, St Fillian's Church and cross-slab (SM1627)	707.8	280889	765340
25	Commemorative Monument	Tomb Clavers/Soldiers Grave	1181.9	290503	763657
26	PLDP Conservation Area	Blair Atholl	96390.0	287239	765281
27	Private Gardens or Grounds	Struan Primary School	976.1	280318	765876
28	Private Gardens or Grounds	Blair Atholl Primary School	5569.1	287682	765172
29	Private Gardens or Grounds	Killiecrankie Primary School	1793.4	291306	762846
30	Burial Grounds	Struan Churchyard	1036.2	280889	765344
31	Public Parks and Gardens	Recreation Park, Blair Atholl	27603.8	287339	765305
32	Other Functional Greenspace	War Memorial, Blair Atholl	168.9	287105	765355

**Table 2: Amenity Lines (polylines) Considered in the Assessment**

Amenity Line ID	Amenity Line Information				
	Type of Amenity Line	Description of Amenity Line	Total Length of Amenity Line (m)	Approximate Centre Point of Amenity Line	
				Easting	Northing
33	Heritage Paths	Loch Bhac Shieling Path	725.2	284210	765389
34	Heritage Paths	Old Blair Military Road	905.3	288134	765394
35	Heritage Paths	The Gaick	195.9	272249	770397
36	Heritage Paths	Old Struan Coffin Road	287.4	281642	765244
37	Heritage Paths	The Minigaig	1014.3	280583	766233
38	Right of Way	TP22	396.8	281682	765355
39	Right of Way	TP16	1095.7	280508	766332
40	Right of Way	TP5	268.3	272278	770373
41	Right of Way	TP23	1182.7	284249	765160
42	Right of Way	TP24	1373.8	286907	764416

Amenity Line ID	Amenity Line Information				
	Type of Amenity Line	Description of Amenity Line	Total Length of Amenity Line (m)	Approximate Centre Point of Amenity Line	
				Easting	Northing
43	National Cycle Route	7	23408.1	277126	768402
44	NMU Corepaths	BAST/10	916.5	280575	765485
45	NMU Corepaths	BAST/110	1027.4	284345	766029
46	NMU Corepaths	BAST/115	362.1	284453	766150
47	NMU Corepaths	BAST/116	506.2	281902	766309
48	NMU Corepaths	BAST/117	212.1	281922	766457
49	NMU Corepaths	BAST/121	375.2	280031	765785
50	NMU Corepaths	BAST/123	225.3	287243	765368
51	NMU Corepaths	BAST/124	1853.0	281793	765389
52	NMU Corepaths	BAST/125	9758.1	280210	765865
53	NMU Corepaths	BAST/126	24.5	287322	765416
54	NMU Corepaths	BAST/128	284.0	286974	765457
55	NMU Corepaths	BAST/138	2964.8	285662	765219
56	NMU Corepaths	BAST/141	422.1	282277	766549
57	NMU Corepaths	BAST/5	1096.6	287086	764547
58	NMU Corepaths	BAST/52	396.8	281628	765253
59	NMU Corepaths	BAST/6	864.4	284216	765443
60	NMU Corepaths	BAST/8	1220.3	280605	766150
61	NMU Corepaths	KCKI/100	821.3	291856	761785
62	NMU Corepaths	KCKI/101	586.3	291832	762151
63	NMU Corepaths	KCKI/109	1907.0	290795	763856
64	NMU Corepaths	KCKI/111	34.2	292275	763119
65	NMU Corepaths	KCKI/120	1341.1	292273	763100
66	NMU Corepaths	KCKI/50	1023.4	291707	761935
67	NMU Corepaths	PLRY/100	821.3	291856	761785
68	NMU Local Paths	105	533.4	291362	762964
69	NMU Local Paths	101	124.0	291711	762789
70	NMU Local Paths	104	1786.2	291607	762297
71	NMU Local Paths	108	1280.9	290999	763518
72	NMU Local Paths	110	824.6	288724	764280
73	NMU Local Paths	115	2038.2	285371	765489
74	NMU Local Paths	120	1864.5	283450	765545

Amenity Line ID	Amenity Line Information				
	Type of Amenity Line	Description of Amenity Line	Total Length of Amenity Line (m)	Approximate Centre Point of Amenity Line	
				Easting	Northing
75	NMU Local Paths	124	981.2	282408	765784
76	NMU Local Paths	122	144.3	282775	766085
77	NMU Local Paths	123	1083.8	282539	766213
78	NMU Local Paths	126	1479.9	281338	766186
79	NMU Local Paths	128	4928.5	279400	766763
80	NMU Local Paths	134	950.6	278493	767167
81	NMU Local Paths	135	968.0	275197	769790
82	NMU Local Paths	136	789.2	274842	769823
83	NMU Local Paths	136	581.2	274409	770108
84	NMU Local Paths	137	174.8	274515	769822
85	NMU Local Paths	111	2129.7	287386	764797
86	NMU Local Paths	106	1408.3	291649	763356
87	NMU Local Paths	109	925.6	290003	764094
88	NMU Local Paths	112	155.0	287151	765266
89	NMU Local Paths	102	499.2	291556	762614
90	NMU Local Paths	138	233.2	273462	770302

- 1.1.2 Tables 3 and 4 provides a summary of each of the amenity areas/lines (polygons and lines respectively) and the percentage of the area that is predicted to fall within each noise contour band for the long-term assessment without the proposed Scheme, i.e., Do-Minimum 2026 vs Do-Minimum 2041 at a height of 1.5m above the ground.
- 1.1.3 Tables 5 and 6 provides a summary of each of the amenity areas/lines (polygons and lines respectively) and the percentage of the area that is predicted to fall within each noise contour band for the short-term assessment with the proposed Scheme, i.e. Do-Minimum 2026 vs Do-Something 2026 (with Mitigation) at a height of 1.5m above the ground.
- 1.1.4 Finally, Tables 7 and 8 provides a summary of each of the amenity areas/lines (polygons and lines respectively) and the percentage of the area that is predicted to fall within each noise contour band for the long-term assessment with the proposed Scheme, i.e., Do-Minimum 2026 vs Do-Something 2041 (with Mitigation) at a height of 1.5m above the ground.

**Table 3: Change in Noise Level of Amenity Areas (polygon) in the Long-term without the Proposed Scheme**

Amenity Area ID	Total Area of Amenity Area (m <sup>2</sup> )	% of Area Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		x ≥ 10 dB	5 ≤ x < 10 dB	3 ≤ x < 5 dB	0 < x < 3 dB	x = 0 dB	-3 < x < 0 dB	-5 < x ≤ -3 dB	-10 < x ≤ -5 dB	x ≤ -10 dB
1	20111432.7	0.0	0.0	0.0	0.0	0.0	41.8	58.1	0.0	0.0
2	1923231.6	0.0	0.0	0.0	0.0	0.0	34.8	65.2	0.0	0.0
3	884262.1	0.0	0.0	0.0	0.0	0.0	34.8	65.2	0.0	0.0
4	88541.3	0.0	0.0	0.0	0.0	0.0	80.2	19.8	0.0	0.0
5	477677.0	0.0	0.0	0.0	0.0	0.0	56.8	43.2	0.0	0.0
6	1927554.6	0.0	0.0	0.0	0.0	0.0	34.9	65.1	0.0	0.0
7	173344.1	0.0	0.0	0.0	0.0	0.0	49.4	50.6	0.0	0.0
8	180864.2	0.0	0.0	0.0	2.1	0.1	57.5	40.3	0.0	0.0
9	544061.5	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
10	89055.6	0.0	0.0	0.0	0.0	0.0	80.0	20.0	0.0	0.0
11	5694.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
12	2882464.8	0.0	0.0	0.0	0.0	0.0	7.3	92.7	0.0	0.0
13	298168.5	0.0	0.0	0.0	0.1	0.0	5.0	94.8	0.1	0.0
14	193197.3	0.0	0.0	0.0	0.0	0.0	71.2	28.8	0.0	0.0
15	12039.8	0.0	0.0	0.0	0.0	0.0	27.9	72.1	0.0	0.0
16	9686.3	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
17	28919.2	0.0	0.0	0.0	0.0	0.0	96.3	3.7	0.0	0.0
18	1182.7	0.0	0.0	0.0	0.0	0.0	2.8	97.2	0.0	0.0
19	60.7	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
20	2370.8	0.0	0.0	0.0	0.0	0.0	1.5	98.5	0.0	0.0
21	1.3	0.0	0.0	0.0	0.0	0.0	97.4	0.0	0.0	0.0
22	318.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
23	80.2	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
24	707.8	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
25	1181.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0

Amenity Area ID	Total Area of Amenity Area (m <sup>2</sup> )	% of Area Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		x ≥ 10 dB	5 ≤ x < 10 dB	3 ≤ x < 5 dB	0 < x < 3 dB	x = 0 dB	-3 < x < 0 dB	-5 < x ≤ -3 dB	-10 < x ≤ -5 dB	x ≤ -10 dB
26	96390.0	0.0	0.0	0.0	0.0	0.0	94.5	5.5	0.0	0.0
27	976.1	0.0	0.0	0.0	0.0	0.0	2.8	97.2	0.0	0.0
28	5569.1	0.0	0.0	0.0	0.0	0.0	96.5	3.5	0.0	0.0
29	1793.4	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
30	1036.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
31	27603.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
32	168.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0

**Table 4: Change in Noise Level of Amenity Lines (Polylines) in the Long-term without the Proposed Scheme**

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		x ≥ 10 dB	5 ≤ x < 10 dB	3 ≤ x < 5 dB	0 < x < 3 dB	x = 0 dB	-3 < x < 0 dB	-5 < x ≤ -3 dB	-10 < x ≤ -5 dB	x ≤ -10 dB
33	725.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
34	905.3	0.0	0.0	0.0	0.0	0.0	57.5	42.5	0.0	0.0
35	195.9	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
36	287.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
37	1014.3	0.0	0.0	0.0	0.0	0.0	24.2	75.8	0.0	0.0
38	396.8	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
39	1095.7	0.0	0.0	0.0	0.0	0.0	22.9	77.1	0.0	0.0
40	268.3	0.0	0.0	0.0	0.0	0.0	3.2	96.8	0.0	0.0
41	1182.7	0.0	0.0	0.0	0.0	0.0	0.6	99.4	0.0	0.0
42	1373.8	0.0	0.0	0.0	0.0	0.0	47.8	51.6	0.0	0.0
43	23408.1	0.0	0.0	0.0	0.0	0.0	40.8	59.1	0.0	0.0
44	916.5	0.0	0.0	0.0	0.0	0.0	17.2	82.8	0.0	0.0
45	1027.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
46	362.1	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 10$ dB	$5 \leq x < 10$ dB	$3 \leq x < 5$ dB	$0 < x < 3$ dB	$x = 0$ dB	$-3 < x < 0$ dB	$-5 < x \leq -3$ dB	$-10 < x \leq -5$ dB	$x \leq -10$ dB
47	506.2	0.0	0.0	0.0	0.0	0.0	1.8	98.2	0.0	0.0
48	212.1	0.0	0.0	0.0	0.0	0.0	15.8	84.3	0.0	0.0
49	375.2	0.0	0.0	0.0	0.0	0.0	85.0	15.0	0.0	0.0
50	225.3	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
51	1853.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
52	9758.1	0.0	0.0	0.0	0.0	0.0	36.6	63.4	0.0	0.0
53	24.5	0.0	0.0	0.0	0.0	0.0	99.8	0.0	0.0	0.0
54	284.0	0.0	0.0	0.0	0.0	0.0	83.8	16.2	0.0	0.0
55	2964.8	0.0	0.0	0.0	0.0	0.0	1.3	98.7	0.0	0.0
56	422.1	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
57	1096.6	0.0	0.0	0.0	0.0	0.0	43.2	56.8	0.0	0.0
58	396.8	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
59	864.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
60	1220.3	0.0	0.0	0.0	0.0	0.0	21.8	78.2	0.0	0.0
61	821.3	0.0	0.0	0.0	0.0	0.0	12.2	87.4	0.3	0.0
62	586.3	0.0	0.0	0.0	0.0	0.0	32.6	67.4	0.0	0.0
63	1907.0	0.0	0.0	0.0	0.0	0.0	82.9	17.1	0.0	0.0
64	34.2	0.0	0.0	0.0	0.0	0.0	99.9	0.0	0.0	0.0
65	1341.1	0.0	0.0	0.0	0.0	0.0	71.9	28.1	0.0	0.0
66	1023.4	0.0	0.0	0.0	0.0	0.0	30.4	69.6	0.0	0.0
67	821.3	0.0	0.0	0.0	0.0	0.0	12.2	87.4	0.3	0.0
68	533.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
69	124.0	0.0	0.0	0.0	0.0	0.0	27.0	73.0	0.0	0.0
70	1786.2	0.0	0.0	0.0	0.0	0.0	59.6	40.4	0.0	0.0
71	1280.9	0.0	0.0	0.0	0.0	0.0	39.6	60.4	0.0	0.0
72	824.6	0.0	0.0	0.0	0.0	0.0	11.8	88.2	0.0	0.0

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 10$ dB	$5 \leq x < 10$ dB	$3 \leq x < 5$ dB	$0 < x < 3$ dB	$x = 0$ dB	$-3 < x < 0$ dB	$-5 < x \leq -3$ dB	$-10 < x \leq -5$ dB	$x \leq -10$ dB
73	2038.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
74	1864.5	0.0	0.0	0.0	0.0	0.0	1.4	98.6	0.0	0.0
75	981.2	0.0	0.0	0.0	0.0	0.0	41.3	58.7	0.0	0.0
76	144.3	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
77	1083.8	0.0	0.0	0.0	0.0	0.0	5.3	94.7	0.0	0.0
78	1479.9	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
79	4928.5	0.0	0.0	0.0	0.0	0.0	70.3	29.7	0.0	0.0
80	950.6	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
81	968.0	0.0	0.0	0.0	0.0	0.0	3.6	96.4	0.0	0.0
82	789.2	0.0	0.0	0.0	0.0	0.0	27.9	72.1	0.0	0.0
83	581.2	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
84	174.8	0.0	0.0	0.0	0.0	0.0	78.4	21.6	0.0	0.0
85	2129.7	0.0	0.0	0.0	0.0	0.0	39.9	60.2	0.0	0.0
86	1408.3	0.0	0.0	0.0	0.0	0.0	60.1	39.9	0.0	0.0
87	925.6	0.0	0.0	0.0	0.8	0.8	63.5	34.8	0.0	0.0
88	155.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
89	499.2	0.0	0.0	0.0	0.0	0.0	91.7	7.8	0.5	0.0
90	233.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0

**Table 5: Change in Noise Level of Amenity Areas (Polygon) in the Short-term with the Proposed Scheme (with Mitigation)**

Amenity Area ID	Total Area of Amenity Area (m <sup>2</sup> )	% of Area Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 5$ dB	$3 \leq x < 5$ dB	$1 \leq x < 3$ dB	$0 < x < 1$ dB	$x = 0$ dB	$-1 < x < 0$ dB	$-3 < x \leq -1$ dB	$-5 < x \leq -3$ dB	$x \leq -5$ dB
1	20111432.7	0.8	0.7	5.4	14.7	3.1	38.7	31.5	3.8	1.4
2	1923231.6	0.0	0.0	2.0	16.8	5.3	75.9	0.0	0.0	0.0
3	884262.1	0.0	0.1	6.2	14.1	3.4	19.0	48.3	8.1	0.9



Amenity Area ID	Total Area of Amenity Area (m <sup>2</sup> )	% of Area Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		x ≥ 5 dB	3 ≤ x < 5 dB	1 ≤ x < 3 dB	0 < x < 1 dB	x = 0 dB	-1 < x < 0 dB	-3 < x ≤ -1 dB	-5 < x ≤ -3 dB	x ≤ -5 dB
4	88541.3	0.0	0.0	2.5	70.1	2.4	25.1	0.0	0.0	0.0
5	477677.0	0.0	0.0	67.4	23.1	1.2	8.3	0.0	0.0	0.0
6	1927554.6	0.0	0.0	2.0	16.8	5.3	75.9	0.0	0.0	0.0
7	173344.1	0.0	0.0	3.5	22.9	1.6	20.1	30.5	11.5	9.9
8	180864.2	1.7	1.5	14.9	15.8	2.1	17.6	32.8	13.0	0.6
9	544061.5	0.0	0.0	0.0	4.4	6.4	65.5	23.6	0.0	0.0
10	89055.6	0.0	0.0	2.6	70.1	2.4	24.9	0.0	0.0	0.0
11	5694.8	0.0	0.0	72.7	27.3	0.0	0.0	0.0	0.0	0.0
12	2882464.8	0.2	0.9	3.6	8.5	2.3	35.5	45.5	2.9	0.5
13	298168.5	0.0	0.0	0.1	1.3	0.3	38.9	59.3	0.1	0.0
14	193197.3	0.0	0.0	0.0	0.1	0.0	57.1	42.8	0.0	0.0
15	12039.8	0.0	0.0	0.0	0.0	0.0	99.6	0.4	0.0	0.0
16	9686.3	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
17	28919.2	0.0	0.0	0.0	5.2	1.2	93.6	0.0	0.0	0.0
18	1182.7	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
19	60.7	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
20	2370.8	0.0	0.0	0.0	0.0	0.0	13.0	87.0	0.0	0.0
21	1.3	0.0	0.0	0.0	0.0	0.0	97.4	0.0	0.0	0.0
22	318.8	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
23	80.2	0.0	0.0	0.0	0.0	0.0	0.0	18.6	56.6	24.8
24	707.8	0.0	0.0	0.0	0.0	0.0	43.1	56.9	0.0	0.0
25	1181.9	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
26	96390.0	0.0	0.0	2.0	16.8	1.8	78.2	1.2	0.0	0.0
27	976.1	0.0	0.0	0.0	0.0	0.0	0.0	49.9	50.1	0.0
28	5569.1	0.0	0.0	0.0	0.0	0.0	88.3	11.7	0.0	0.0
29	1793.4	0.0	0.0	0.0	65.8	8.5	25.7	0.0	0.0	0.0

Amenity Area ID	Total Area of Amenity Area (m <sup>2</sup> )	% of Area Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		x ≥ 5 dB	3 ≤ x < 5 dB	1 ≤ x < 3 dB	0 < x < 1 dB	x = 0 dB	-1 < x < 0 dB	-3 < x ≤ -1 dB	-5 < x ≤ -3 dB	x ≤ -5 dB
30	1036.2	0.0	0.0	0.0	0.0	0.0	32.3	67.7	0.0	0.0
31	27603.8	0.0	0.0	0.0	3.5	0.8	95.7	0.0	0.0	0.0
32	168.9	0.0	0.0	0.0	24.3	45.9	29.7	0.0	0.0	0.0

**Table 6: Change in Noise Level of Amenity Lines (Polylines) in the Short-term with the Proposed Scheme (with Mitigation)**

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		x ≥ 5 dB	3 ≤ x < 5 dB	1 ≤ x < 3 dB	0 < x < 1 dB	x = 0 dB	-1 < x < 0 dB	-3 < x ≤ -1 dB	-5 < x ≤ -3 dB	x ≤ -5 dB
33	725.2	6.2	1.7	33.8	41.8	4.3	10.1	0.2	0.2	1.8
34	905.3	0.0	0.0	2.2	21.5	1.0	75.3	0.0	0.0	0.0
35	195.9	0.0	0.0	0.0	0.0	0.0	22.7	77.3	0.0	0.0
36	287.4	0.0	0.0	0.0	0.0	0.0	42.7	57.3	0.0	0.0
37	1014.3	0.0	0.0	0.0	1.7	0.1	39.1	59.1	0.0	0.0
38	396.8	0.0	0.0	0.0	0.0	0.0	34.1	65.9	0.0	0.0
39	1095.7	0.0	0.0	0.0	1.1	0.0	42.6	55.1	1.2	0.0
40	268.3	0.0	0.0	0.0	0.0	0.0	12.5	87.5	0.0	0.0
41	1182.7	3.5	0.7	19.4	28.1	2.2	6.5	5.6	4.5	29.5
42	1373.8	0.0	1.3	4.1	18.2	2.3	57.3	15.6	0.7	0.0
43	23408.1	0.0	0.1	17.5	13.4	2.1	18.2	32.4	12.4	4.0
44	916.5	0.0	0.0	0.0	0.0	0.0	2.9	97.1	0.0	0.0
45	1027.4	0.0	0.0	0.0	0.0	0.0	11.6	88.4	0.0	0.0
46	362.1	0.0	0.0	0.0	0.0	0.0	77.0	23.0	0.0	0.0
47	506.2	0.0	0.0	0.0	0.0	0.0	82.5	17.5	0.0	0.0
48	212.1	0.0	0.0	0.0	11.1	5.4	65.2	18.3	0.0	0.0
49	375.2	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
50	225.3	0.0	0.0	73.5	26.5	0.0	0.0	0.0	0.0	0.0

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 5$ dB	$3 \leq x < 5$ dB	$1 \leq x < 3$ dB	$0 < x < 1$ dB	$x = 0$ dB	$-1 < x < 0$ dB	$-3 < x \leq -1$ dB	$-5 < x \leq -3$ dB	$x \leq -5$ dB
51	1853.0	2.0	0.3	0.3	15.5	3.1	28.6	49.3	0.9	0.0
52	9758.1	0.0	0.0	9.7	3.4	1.9	15.3	43.9	21.7	4.0
53	24.5	0.0	0.0	26.1	74.2	0.0	0.0	0.0	0.0	0.0
54	284.0	0.0	0.0	0.0	0.0	0.0	48.4	51.6	0.0	0.0
55	2964.8	5.4	14.6	29.8	11.9	2.2	35.9	0.2	0.0	0.0
56	422.1	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
57	1096.6	0.0	1.4	4.9	15.7	2.6	66.7	8.6	0.0	0.0
58	396.8	0.0	0.0	0.0	0.0	0.0	34.1	65.9	0.0	0.0
59	864.4	3.1	0.7	44.9	39.3	3.1	8.9	0.0	0.0	0.0
60	1220.3	0.0	0.0	0.0	1.8	0.0	37.0	56.8	1.2	3.1
61	821.3	0.0	0.9	96.1	2.7	0.0	0.3	0.0	0.0	0.0
62	586.3	0.0	0.0	84.8	15.2	0.0	0.0	0.0	0.0	0.0
63	1907.0	0.0	0.0	0.5	47.3	7.8	20.0	17.7	3.9	2.8
64	34.2	0.0	0.0	0.0	0.0	17.8	82.3	0.0	0.0	0.0
65	1341.1	0.0	0.0	0.0	9.6	8.5	72.7	8.6	0.5	0.0
66	1023.4	0.0	0.0	97.7	2.3	0.0	0.0	0.0	0.0	0.0
67	821.3	0.0	0.9	96.1	2.7	0.0	0.3	0.0	0.0	0.0
68	533.4	0.0	0.0	0.6	1.2	0.0	18.1	72.7	7.3	0.0
69	124.0	0.0	0.0	0.0	0.0	0.0	0.0	73.2	22.7	4.1
70	1786.2	0.0	0.0	50.6	17.2	3.9	28.3	0.0	0.0	0.0
71	1280.9	17.9	30.1	23.7	7.5	0.3	6.1	8.4	5.9	0.0
72	824.6	0.0	4.5	7.8	19.3	3.4	41.8	18.0	2.5	2.7
73	2038.2	0.0	0.0	0.0	0.0	0.0	9.1	89.5	1.3	0.0
74	1864.5	0.0	0.0	0.0	1.1	1.4	9.2	11.3	36.5	40.6
75	981.2	48.0	2.8	2.2	0.8	0.0	6.0	10.1	17.7	12.4
76	144.3	0.0	0.0	0.0	0.0	0.0	44.1	55.8	0.0	0.0

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 5$ dB	$3 \leq x < 5$ dB	$1 \leq x < 3$ dB	$0 < x < 1$ dB	$x = 0$ dB	$-1 < x < 0$ dB	$-3 < x \leq -1$ dB	$-5 < x \leq -3$ dB	$x \leq -5$ dB
77	1083.8	0.0	0.0	0.0	0.0	0.0	26.1	73.9	0.0	0.0
78	1479.9	0.0	0.0	0.0	0.0	0.0	44.2	55.8	0.0	0.0
79	4928.5	0.0	0.0	3.8	22.1	6.8	45.0	22.2	0.0	0.0
80	950.6	2.0	2.1	23.6	61.2	1.1	7.4	2.7	0.0	0.0
81	968.0	0.0	8.3	11.1	11.0	2.1	54.8	7.6	2.7	2.4
82	789.2	0.0	0.0	14.1	33.2	9.7	43.0	0.0	0.0	0.0
83	581.2	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
84	174.8	9.1	7.2	5.7	1.8	0.6	33.3	28.1	11.3	3.1
85	2129.7	0.0	0.0	0.0	0.0	0.0	28.0	62.8	8.6	0.5
86	1408.3	0.0	0.0	0.5	16.1	22.3	42.1	16.2	2.8	0.0
87	925.6	0.0	0.0	1.6	19.3	2.4	35.6	32.8	6.0	2.3
88	155.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
89	499.2	0.0	0.0	29.0	39.6	2.9	28.0	0.5	0.0	0.0
90	233.2	0.0	0.0	0.0	5.9	2.7	55.8	33.4	2.3	0.0

**Table 7: Change in Noise Level of Amenity Areas (Polygon) in the Long-term with the Proposed Scheme (with Mitigation)**

Amenity Area ID	Total Area of Amenity Area (m <sup>2</sup> )	% of Area Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 10$ dB	$5 \leq x < 10$ dB	$3 \leq x < 5$ dB	$0 < x < 3$ dB	$x = 0$ dB	$-3 < x < 0$ dB	$-5 < x \leq -3$ dB	$-10 < x \leq -5$ dB	$x \leq -10$ dB
1	20111432.7	0.2	0.7	0.8	14.8	2.3	76.9	3.2	0.9	0.3
2	1923231.6	0.0	0.0	0.0	35.1	11.0	53.9	0.0	0.0	0.0
3	884262.1	0.0	0.0	0.1	10.4	2.6	79.8	6.3	0.8	0.0
4	88541.3	0.0	0.0	0.1	0.5	0.0	99.3	0.0	0.0	0.0
5	477677.0	0.0	0.0	0.0	0.3	0.2	99.5	0.0	0.0	0.0
6	1927554.6	0.0	0.0	0.0	35.0	10.9	54.0	0.0	0.0	0.0
7	173344.1	0.0	0.0	0.0	28.3	1.3	50.3	10.9	8.4	0.8

Amenity Area ID	Total Area of Amenity Area (m <sup>2</sup> )	% of Area Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		x ≥ 10 dB	5 ≤ x < 10 dB	3 ≤ x < 5 dB	0 < x < 3 dB	x = 0 dB	-3 < x < 0 dB	-5 < x ≤ -3 dB	-10 < x ≤ -5 dB	x ≤ -10 dB
8	180864.2	0.0	1.9	1.8	36.2	2.3	46.4	11.0	0.3	0.0
9	544061.5	0.0	0.0	0.0	44.9	11.4	43.8	0.0	0.0	0.0
10	89055.6	0.0	0.0	0.1	0.5	0.0	99.4	0.0	0.0	0.0
11	5694.8	0.0	0.0	0.0	99.9	0.1	0.0	0.0	0.0	0.0
12	2882464.8	0.0	0.3	1.0	16.6	1.9	77.3	2.4	0.4	0.0
13	298168.5	0.0	0.0	0.0	2.4	0.6	97.0	0.1	0.0	0.0
14	193197.3	0.0	0.0	0.0	0.1	0.0	99.8	0.0	0.0	0.0
15	12039.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
16	9686.3	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
17	28919.2	0.0	0.0	0.0	3.4	2.5	94.0	0.0	0.0	0.0
18	1182.7	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
19	60.7	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
20	2370.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
21	1.3	0.0	0.0	0.0	0.0	0.0	97.4	0.0	0.0	0.0
22	318.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
23	80.2	0.0	0.0	0.0	0.0	0.0	15.3	60.2	24.3	0.0
24	707.8	0.0	0.0	0.0	1.8	1.8	96.4	0.0	0.0	0.0
25	1181.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
26	96390.0	0.0	0.0	0.0	17.1	2.6	80.3	0.0	0.0	0.0
27	976.1	0.0	0.0	0.0	0.0	0.0	65.6	34.4	0.0	0.0
28	5569.1	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
29	1793.4	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
30	1036.2	0.0	0.0	0.0	1.3	1.2	97.5	0.0	0.0	0.0
31	27603.8	0.0	0.0	0.0	3.2	1.0	95.8	0.0	0.0	0.0
32	168.9	0.0	0.0	0.0	0.0	27.5	72.5	0.0	0.0	0.0

**Table 8: Change in Noise Level of Amenity Lines (Polylines) in the Long-term with the Proposed Scheme (with Mitigation)**

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 10$ dB	$5 \leq x < 10$ dB	$3 \leq x < 5$ dB	$0 < x < 3$ dB	$x = 0$ dB	$-3 < x < 0$ dB	$-5 < x \leq -3$ dB	$-10 < x \leq -5$ dB	$x \leq -10$ dB
33	725.2	0.0	6.4	7.1	78.3	3.8	2.4	0.2	0.5	1.2
34	905.3	0.0	0.0	0.0	24.0	1.3	74.7	0.0	0.0	0.0
35	195.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
36	287.4	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
37	1014.3	0.0	0.0	0.0	2.4	0.4	97.3	0.0	0.0	0.0
38	396.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
39	1095.7	0.0	0.0	0.0	1.4	0.2	97.3	1.0	0.0	0.0
40	268.3	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
41	1182.7	0.0	3.7	4.3	48.6	2.4	9.8	1.9	3.8	25.5
42	1373.8	0.0	0.0	1.7	40.6	19.5	37.1	0.6	0.0	0.0
43	23408.1	0.0	0.0	0.1	18.0	2.8	65.9	9.5	2.6	1.0
44	916.5	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
45	1027.4	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
46	362.1	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
47	506.2	0.0	0.0	0.0	0.0	3.6	96.4	0.0	0.0	0.0
48	212.1	0.0	0.0	0.0	21.9	3.0	75.1	0.0	0.0	0.0
49	375.2	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
50	225.3	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
51	1853.0	0.0	2.1	0.3	31.8	1.1	64.2	0.7	0.0	0.0
52	9758.1	0.0	0.0	0.1	7.3	0.8	73.1	15.5	3.1	0.0
53	24.5	0.0	0.0	0.0	99.8	0.0	0.0	0.0	0.0	0.0
54	284.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
55	2964.8	0.0	6.9	15.3	46.5	1.5	29.7	0.0	0.0	0.0
56	422.1	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 10$ dB	$5 \leq x < 10$ dB	$3 \leq x < 5$ dB	$0 < x < 3$ dB	$x = 0$ dB	$-3 < x < 0$ dB	$-5 < x \leq -3$ dB	$-10 < x \leq -5$ dB	$x \leq -10$ dB
57	1096.6	0.0	0.0	1.9	43.6	24.2	30.4	0.0	0.0	0.0
58	396.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
59	864.4	0.0	3.2	0.7	90.9	3.3	2.0	0.0	0.0	0.0
60	1220.3	0.0	0.0	0.0	1.9	0.2	93.8	1.1	1.0	2.1
61	821.3	0.0	0.0	0.0	0.6	0.0	98.4	1.0	0.0	0.0
62	586.3	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
63	1907.0	0.0	0.0	0.0	27.2	12.5	54.1	3.6	2.6	0.0
64	34.2	0.0	0.0	0.0	20.7	79.1	0.0	0.0	0.0	0.0
65	1341.1	0.0	0.0	0.0	5.9	10.7	83.0	0.4	0.0	0.0
66	1023.4	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
67	821.3	0.0	0.0	0.0	0.6	0.0	98.4	1.0	0.0	0.0
68	533.4	0.0	0.0	0.0	1.8	0.2	91.8	6.1	0.0	0.0
69	124.0	0.0	0.0	0.0	0.0	0.0	74.1	22.7	3.2	0.0
70	1786.2	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
71	1280.9	0.4	18.0	31.9	29.3	0.2	15.8	4.5	0.0	0.0
72	824.6	0.0	0.0	4.9	35.7	5.3	49.2	2.2	2.6	0.0
73	2038.2	0.0	0.0	0.0	0.0	0.0	99.4	0.6	0.0	0.0
74	1864.5	0.0	0.0	0.0	3.1	0.7	19.6	38.5	37.4	0.6
75	981.2	40.3	7.7	2.6	3.2	0.0	20.0	14.5	10.4	1.2
76	144.3	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
77	1083.8	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
78	1479.9	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0
79	4928.5	0.0	0.0	0.0	53.3	4.7	42.0	0.0	0.0	0.0
80	950.6	0.0	2.1	4.2	85.2	0.5	8.0	0.0	0.0	0.0
81	968.0	0.0	0.0	9.3	27.9	1.9	56.3	2.3	2.3	0.0
82	789.2	0.0	0.0	0.0	63.7	5.4	30.9	0.0	0.0	0.0

Amenity Line ID	Total Length of Amenity Line (m)	% of Length Subject to Change in Noise Level								
		Increase in Noise Level				No Change	Decrease in Noise Level			
		$x \geq 10$ dB	$5 \leq x < 10$ dB	$3 \leq x < 5$ dB	$0 < x < 3$ dB	$x = 0$ dB	$-3 < x < 0$ dB	$-5 < x \leq -3$ dB	$-10 < x \leq -5$ dB	$x \leq -10$ dB
83	581.2	0.0	0.0	0.0	0.0	0.6	99.4	0.0	0.0	0.0
84	174.8	0.0	9.7	7.3	8.1	0.0	63.3	9.7	1.9	0.0
85	2129.7	0.0	0.0	0.0	0.0	0.3	91.8	7.4	0.5	0.0
86	1408.3	0.0	0.0	0.0	2.3	2.9	92.1	2.7	0.0	0.0
87	925.6	0.0	0.0	0.0	24.1	1.7	66.3	5.8	2.1	0.0
88	155.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0
89	499.2	0.0	0.0	0.0	0.0	0.2	98.7	1.0	0.0	0.0
90	233.2	0.0	0.0	0.0	7.8	6.8	85.3	0.0	0.0	0.0