
TECHNICAL APPENDIX 8.4: MODEL RESULTS

Project: Winchburgh M9 Junction
 Project Code: 1700001968

Title: Technical Appendix 8.4: Model Outputs

Table TA 8.4.2: Modelling Results - PM_{2.5} (µg/m³)

Assessment				Operational						
Receptor Name	X(m)	Y(m)	Z(m)	Local Authority	Do Minimum Scenario	Do Something Scenario	Traffic Contribution	% Change	Positive or Negative	Magnitude
3	311355	672639	1.5	CITY OF EDINBURGH	6.7	6.7	0.0	0.1	Beneficial	Imperceptible
4	311086	672645	1.5	CITY OF EDINBURGH	7.2	7.2	-0.1	0.1	Beneficial	Small
5	312340	672669	1.5	CITY OF EDINBURGH	7.4	7.4	0.0	0.0	Beneficial	Imperceptible
6	312151	672804	1.5	CITY OF EDINBURGH	7.8	7.8	0.0	0.1	Beneficial	Small
7	311680	672821	1.5	CITY OF EDINBURGH	7.1	7.0	0.0	0.1	Beneficial	Small
8	312115	672835	1.5	CITY OF EDINBURGH	7.9	7.8	-0.1	0.1	Beneficial	Small
9	312081	672846	1.5	CITY OF EDINBURGH	7.8	7.7	-0.1	0.1	Beneficial	Small
10	312266	673713	1.5	CITY OF EDINBURGH	7.4	7.5	0.0	0.0	Adverse	Imperceptible
11	311994	674056	1.5	CITY OF EDINBURGH	7.4	7.4	0.0	0.0	Adverse	Imperceptible
12	311907	674105	1.5	CITY OF EDINBURGH	7.9	7.9	0.0	0.0	Adverse	Imperceptible
13	311884	674153	1.5	CITY OF EDINBURGH	7.8	7.8	0.0	0.0	Adverse	Imperceptible
14	311162	674455	1.5	CITY OF EDINBURGH	7.0	7.1	0.0	0.1	Adverse	Imperceptible
15	311749	674575	1.5	CITY OF EDINBURGH	7.3	7.3	0.0	0.0	Adverse	Imperceptible
16	311633	674614	1.5	CITY OF EDINBURGH	7.7	7.7	0.0	0.1	Adverse	Imperceptible
17	311658	674703	1.5	CITY OF EDINBURGH	7.7	7.7	0.0	0.0	Adverse	Imperceptible
18	311821	674731	1.5	CITY OF EDINBURGH	7.3	7.3	0.0	0.0	Adverse	Imperceptible
19	311792	674941	1.5	CITY OF EDINBURGH	7.2	7.3	0.0	0.1	Adverse	Imperceptible
20	312097	675162	1.5	CITY OF EDINBURGH	7.0	7.0	0.0	0.0	Adverse	Imperceptible
33	312564	675668	1.5	CITY OF EDINBURGH	7.0	7.0	0.0	0.0	Adverse	Imperceptible
37	313732	676168	1.5	CITY OF EDINBURGH	7.1	7.1	0.0	0.0	Adverse	Imperceptible
38	312883	677079	1.5	CITY OF EDINBURGH	7.6	7.7	0.0	0.0	Adverse	Imperceptible
39	312625	677131	1.5	CITY OF EDINBURGH	7.6	7.6	0.0	0.0	Adverse	Imperceptible
42	312939	677243	1.5	CITY OF EDINBURGH	8.4	8.4	0.0	0.1	Adverse	Imperceptible
43	312897	677251	1.5	CITY OF EDINBURGH	8.4	8.5	0.0	0.1	Adverse	Imperceptible
55	311542	677877	1.5	CITY OF EDINBURGH	7.5	7.5	0.0	0.1	Beneficial	Imperceptible
1	309424	672187	1.5	WEST LOTHIAN	7.3	7.2	0.0	0.1	Beneficial	Imperceptible
2	309423	672206	1.5	WEST LOTHIAN	7.4	7.4	0.0	0.1	Beneficial	Small
21	308436	675253	1.5	WEST LOTHIAN	6.3	6.3	0.0	0.0	Adverse	Imperceptible
22	308437	675253	1.5	WEST LOTHIAN	6.3	6.3	0.0	0.0	Adverse	Imperceptible
23	309959	675268	1.5	WEST LOTHIAN	6.9	7.0	0.1	0.2	Adverse	Small
24	309721	675279	1.5	WEST LOTHIAN	6.7	6.7	0.0	0.1	Adverse	Small
25	308079	675348	1.5	WEST LOTHIAN	6.7	6.7	0.0	0.0	Adverse	Imperceptible
26	308226	675396	1.5	WEST LOTHIAN	6.5	6.5	0.0	0.0	Adverse	Imperceptible
27	309276	675401	1.5	WEST LOTHIAN	6.6	6.6	0.1	0.1	Adverse	Small
28	308973	675427	1.5	WEST LOTHIAN	6.4	6.5	0.1	0.2	Adverse	Small
29	309034	675451	1.5	WEST LOTHIAN	6.7	6.8	0.1	0.2	Adverse	Small
30	309203	675497	1.5	WEST LOTHIAN	6.7	6.7	0.1	0.2	Adverse	Small
31	309128	675515	1.5	WEST LOTHIAN	6.8	6.9	0.1	0.3	Adverse	Small
32	306883	675551	1.5	WEST LOTHIAN	6.3	6.3	-0.1	0.1	Beneficial	Small
34	306124	675712	1.5	WEST LOTHIAN	6.4	6.3	-0.1	0.1	Beneficial	Small
35	305998	675760	1.5	WEST LOTHIAN	6.4	6.4	0.0	0.1	Beneficial	Imperceptible
36	305997	675823	1.5	WEST LOTHIAN	6.2	6.2	0.0	0.1	Beneficial	Imperceptible
40	305956	677214	1.5	WEST LOTHIAN	6.5	6.5	0.0	0.1	Beneficial	Imperceptible
41	306016	677200	1.5	WEST LOTHIAN	6.4	6.4	0.0	0.1	Beneficial	Imperceptible
44	305924	677283	1.5	WEST LOTHIAN	6.5	6.5	0.0	0.0	Beneficial	Imperceptible
45	305999	677306	1.5	WEST LOTHIAN	6.6	6.6	0.0	0.1	Beneficial	Imperceptible
46	308820	677348	1.5	WEST LOTHIAN	6.5	6.4	-0.1	0.2	Beneficial	Small
47	308705	677406	1.5	WEST LOTHIAN	6.8	6.9	0.1	0.2	Adverse	Small
48	308797	677448	1.5	WEST LOTHIAN	6.9	6.9	0.0	0.0	Beneficial	Imperceptible
49	309113	677606	1.5	WEST LOTHIAN	7.3	7.2	-0.1	0.2	Beneficial	Small
50	309167	677639	1.5	WEST LOTHIAN	7.5	7.4	-0.1	0.2	Beneficial	Small
51	309245	677710	1.5	WEST LOTHIAN	7.5	7.4	-0.1	0.2	Beneficial	Small
52	309215	677707	1.5	WEST LOTHIAN	7.2	7.1	-0.1	0.2	Beneficial	Small
53	309307	677775	1.5	WEST LOTHIAN	7.6	7.5	-0.1	0.3	Beneficial	Small
54	309289	677783	1.5	WEST LOTHIAN	7.1	7.1	-0.1	0.2	Beneficial	Small
56	310030	677927	1.5	WEST LOTHIAN	6.6	6.6	0.0	0.1	Beneficial	Small
57	308071	675377	1.5	WEST LOTHIAN	6.5	6.5	0.0	0.0	Adverse	Imperceptible
58	308237	675431	1.5	WEST LOTHIAN	6.6	6.6	0.0	0.0	Adverse	Imperceptible
59	308327	675432	1.5	WEST LOTHIAN	6.6	6.7	0.0	0.1	Adverse	Small
60	308325	675403	1.5	WEST LOTHIAN	6.5	6.5	0.0	0.1	Adverse	Imperceptible
61	308491	675474	1.5	WEST LOTHIAN	6.5	6.5	0.0	0.1	Adverse	Small
62	308435	675415	1.5	WEST LOTHIAN	6.5	6.6	0.0	0.1	Adverse	Small
63	308585	675437	1.5	WEST LOTHIAN	6.5	6.5	0.1	0.1	Adverse	Small
64	308647	675466	1.5	WEST LOTHIAN	6.6	6.6	0.1	0.2	Adverse	Small
65	308859	675461	1.5	WEST LOTHIAN	6.6	6.7	0.1	0.2	Adverse	Small
66	309052	675499	1.5	WEST LOTHIAN	6.8	6.9	0.1	0.3	Adverse	Small
67	309111	675510	1.5	WEST LOTHIAN	6.9	7.1	0.1	0.3	Adverse	Small
68	309171	675589	1.5	WEST LOTHIAN	6.9	7.1	0.2	0.4	Adverse	Small
69	309170	675674	1.5	WEST LOTHIAN	6.7	6.9	0.2	0.4	Adverse	Small
70	309205	675675	1.5	WEST LOTHIAN	6.8	7.1	0.3	0.6	Adverse	Medium
71	309138	675774	1.5	WEST LOTHIAN	6.6	6.7	0.1	0.2	Adverse	Small
72	309051	676438	1.5	WEST LOTHIAN	6.8	6.9	0.0	0.1	Adverse	Imperceptible

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Table TA 8.4.2: Modelling Results - PM₁₀ (µg/m³)

Assessment				Operational						
Receptor Name	X(m)	Y(m)	Z(m)	Local Authority	Do Minimum Scenario	Do Something Scenario	Traffic Contribution	% Change	Positive or Negative	Magnitude
3	311355	672639	1.5	CITY OF EDINBURGH	13.4	13.4	0.0	0.1	Beneficial	Imperceptible
4	311086	672645	1.5	CITY OF EDINBURGH	14.3	14.2	-0.1	0.3	Beneficial	Small
5	312340	672669	1.5	CITY OF EDINBURGH	16.5	16.5	0.0	0.1	Beneficial	Imperceptible
6	312151	672804	1.5	CITY OF EDINBURGH	17.3	17.2	-0.1	0.2	Beneficial	Imperceptible
7	311680	672821	1.5	CITY OF EDINBURGH	14.1	14.0	-0.1	0.2	Beneficial	Small
8	312115	672835	1.5	CITY OF EDINBURGH	17.4	17.2	-0.1	0.3	Beneficial	Small
9	312081	672846	1.5	CITY OF EDINBURGH	17.2	17.1	-0.1	0.2	Beneficial	Small
10	312266	673713	1.5	CITY OF EDINBURGH	14.5	14.5	0.0	0.0	Adverse	Imperceptible
11	311994	674056	1.5	CITY OF EDINBURGH	13.3	13.3	0.0	0.0	Adverse	Imperceptible
12	311907	674105	1.5	CITY OF EDINBURGH	14.0	14.0	0.0	0.0	Adverse	Imperceptible
13	311884	674153	1.5	CITY OF EDINBURGH	13.9	14.0	0.0	0.0	Adverse	Imperceptible
14	311162	674455	1.5	CITY OF EDINBURGH	12.7	12.7	0.0	0.1	Adverse	Imperceptible
15	311749	674575	1.5	CITY OF EDINBURGH	13.1	13.1	0.0	0.0	Adverse	Imperceptible
16	311633	674614	1.5	CITY OF EDINBURGH	13.7	13.7	0.0	0.1	Adverse	Imperceptible
17	311658	674703	1.5	CITY OF EDINBURGH	13.7	13.7	0.0	0.1	Adverse	Imperceptible
18	311821	674731	1.5	CITY OF EDINBURGH	13.1	13.1	0.0	0.0	Adverse	Imperceptible
19	311792	674941	1.5	CITY OF EDINBURGH	13.0	13.1	0.0	0.1	Adverse	Imperceptible
20	312097	675162	1.5	CITY OF EDINBURGH	12.8	12.8	0.0	0.1	Adverse	Imperceptible
33	312564	675668	1.5	CITY OF EDINBURGH	13.0	13.0	0.0	0.0	Adverse	Imperceptible
37	313732	676168	1.5	CITY OF EDINBURGH	12.6	12.6	0.0	0.1	Adverse	Imperceptible
38	312883	677079	1.5	CITY OF EDINBURGH	13.7	13.7	0.0	0.1	Adverse	Imperceptible
39	312625	677131	1.5	CITY OF EDINBURGH	13.5	13.6	0.0	0.1	Adverse	Imperceptible
42	312939	677243	1.5	CITY OF EDINBURGH	15.0	15.0	0.1	0.1	Adverse	Imperceptible
43	312897	677251	1.5	CITY OF EDINBURGH	15.1	15.2	0.1	0.1	Adverse	Imperceptible
55	311542	677877	1.5	CITY OF EDINBURGH	13.9	13.8	-0.1	0.1	Beneficial	Imperceptible
1	309424	672187	1.5	WEST Lothian	14.4	14.4	-0.1	0.2	Beneficial	Imperceptible
2	309423	672206	1.5	WEST Lothian	14.7	14.6	-0.1	0.2	Beneficial	Small
21	308436	675253	1.5	WEST Lothian	11.6	11.6	0.0	0.0	Adverse	Imperceptible
22	308437	675253	1.5	WEST Lothian	11.6	11.6	0.0	0.0	Adverse	Imperceptible
23	309959	675268	1.5	WEST Lothian	12.7	12.8	0.1	0.3	Adverse	Small
24	309721	675279	1.5	WEST Lothian	12.3	12.4	0.1	0.2	Adverse	Imperceptible
25	308079	675348	1.5	WEST Lothian	12.3	12.3	0.0	0.0	Adverse	Imperceptible
26	308226	675396	1.5	WEST Lothian	12.0	12.1	0.0	0.0	Adverse	Imperceptible
27	309276	675401	1.5	WEST Lothian	12.1	12.2	0.1	0.2	Adverse	Small
28	308973	675427	1.5	WEST Lothian	11.8	11.9	0.1	0.3	Adverse	Small
29	309034	675451	1.5	WEST Lothian	12.4	12.6	0.1	0.4	Adverse	Small
30	309203	675497	1.5	WEST Lothian	12.3	12.4	0.1	0.3	Adverse	Small
31	309128	675515	1.5	WEST Lothian	12.6	12.8	0.2	0.5	Adverse	Small
32	306883	675551	1.5	WEST Lothian	11.5	11.4	-0.1	0.3	Beneficial	Small
34	306124	675712	1.5	WEST Lothian	11.6	11.5	-0.1	0.2	Beneficial	Small
35	305998	675760	1.5	WEST Lothian	11.7	11.6	-0.1	0.2	Beneficial	Imperceptible
36	305997	675823	1.5	WEST Lothian	11.3	11.3	-0.1	0.1	Beneficial	Imperceptible
40	305956	677214	1.5	WEST Lothian	12.1	12.1	0.0	0.1	Beneficial	Imperceptible
41	306016	677200	1.5	WEST Lothian	11.6	11.5	-0.1	0.2	Beneficial	Imperceptible
44	305924	677283	1.5	WEST Lothian	12.1	12.1	0.0	0.1	Beneficial	Imperceptible
45	305999	677306	1.5	WEST Lothian	12.3	12.2	-0.1	0.1	Beneficial	Imperceptible
46	308820	677348	1.5	WEST Lothian	11.7	11.6	-0.1	0.3	Beneficial	Small
47	308705	677406	1.5	WEST Lothian	12.3	12.4	0.1	0.3	Adverse	Small
48	308797	677448	1.5	WEST Lothian	12.5	12.4	0.0	0.1	Beneficial	Imperceptible
49	309113	677606	1.5	WEST Lothian	14.2	14.1	-0.1	0.3	Beneficial	Small
50	309167	677639	1.5	WEST Lothian	14.5	14.3	-0.1	0.4	Beneficial	Small
51	309245	677710	1.5	WEST Lothian	14.6	14.4	-0.2	0.4	Beneficial	Small
52	309215	677707	1.5	WEST Lothian	14.0	13.9	-0.1	0.3	Beneficial	Small
53	309307	677775	1.5	WEST Lothian	14.7	14.5	-0.2	0.4	Beneficial	Small
54	309289	677783	1.5	WEST Lothian	13.9	13.8	-0.1	0.3	Beneficial	Small
56	310030	677927	1.5	WEST Lothian	12.4	12.3	-0.1	0.2	Beneficial	Small
57	308071	675377	1.5	WEST Lothian	11.9	11.9	0.0	0.0	Adverse	Imperceptible
58	308237	675431	1.5	WEST Lothian	12.1	12.1	0.0	0.1	Adverse	Imperceptible
59	308327	675432	1.5	WEST Lothian	12.2	12.3	0.1	0.2	Adverse	Small
60	308325	675403	1.5	WEST Lothian	12.0	12.0	0.1	0.1	Adverse	Imperceptible
61	308491	675474	1.5	WEST Lothian	11.9	12.0	0.1	0.2	Adverse	Small
62	308435	675415	1.5	WEST Lothian	12.0	12.1	0.1	0.2	Adverse	Small
63	308585	675437	1.5	WEST Lothian	11.9	12.0	0.1	0.2	Adverse	Small
64	308647	675466	1.5	WEST Lothian	12.1	12.2	0.1	0.3	Adverse	Small
65	308859	675461	1.5	WEST Lothian	12.2	12.3	0.2	0.4	Adverse	Small
66	309052	675499	1.5	WEST Lothian	12.6	12.8	0.2	0.5	Adverse	Small
67	309111	675510	1.5	WEST Lothian	12.8	13.0	0.2	0.6	Adverse	Small
68	309171	675589	1.5	WEST Lothian	12.8	13.1	0.3	0.7	Adverse	Small
69	309170	675674	1.5	WEST Lothian	12.4	12.6	0.3	0.7	Adverse	Small
70	309205	675675	1.5	WEST Lothian	12.6	13.0	0.5	1.1	Adverse	Medium
71	309138	675774	1.5	WEST Lothian	12.2	12.4	0.2	0.4	Adverse	Small
72	309051	676438	1.5	WEST Lothian	12.7	12.7	0.0	0.1	Adverse	Imperceptible

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Table TA 8.4.1: Modelling Results - NO₂ (µg/m³)

Assessment					Operational					
Receptor Name	X(m)	Y(m)	Z(m)	Local Authority	Do Minimum Scenario	Do Something Scenario	Traffic Contribution	% Change	Positive or Negative	Magnitude
3	311355	672639	1.5	CITY OF EDINBURGH	17.0	16.8	-0.2	0.4	Beneficial	Imperceptible
4	311086	672645	1.5	CITY OF EDINBURGH	20.9	20.5	-0.5	1.2	Beneficial	Small
5	312340	672669	1.5	CITY OF EDINBURGH	20.1	20.0	-0.1	0.2	Beneficial	Imperceptible
6	312151	672804	1.5	CITY OF EDINBURGH	22.8	22.5	-0.3	0.7	Beneficial	Small
7	311680	672821	1.5	CITY OF EDINBURGH	19.9	19.6	-0.4	0.9	Beneficial	Small
8	312115	672835	1.5	CITY OF EDINBURGH	23.4	22.9	-0.5	1.2	Beneficial	Small
9	312081	672846	1.5	CITY OF EDINBURGH	22.7	22.3	-0.4	1.0	Beneficial	Small
10	312266	673713	1.5	CITY OF EDINBURGH	21.3	21.4	0.2	0.4	Adverse	Imperceptible
11	311994	674056	1.5	CITY OF EDINBURGH	20.6	20.7	0.2	0.4	Adverse	Small
12	311907	674105	1.5	CITY OF EDINBURGH	27.9	28.2	0.3	0.7	Adverse	Small
13	311884	674153	1.5	CITY OF EDINBURGH	27.1	27.3	0.3	0.7	Adverse	Small
14	311162	674455	1.5	CITY OF EDINBURGH	14.9	15.4	0.5	1.4	Adverse	Small
15	311749	674575	1.5	CITY OF EDINBURGH	19.0	19.4	0.4	0.9	Adverse	Small
16	311633	674614	1.5	CITY OF EDINBURGH	25.0	25.6	0.6	1.5	Adverse	Small
17	311658	674703	1.5	CITY OF EDINBURGH	23.9	24.5	0.6	1.5	Adverse	Small
18	311821	674731	1.5	CITY OF EDINBURGH	17.7	18.0	0.3	0.8	Adverse	Small
19	311792	674941	1.5	CITY OF EDINBURGH	18.4	19.0	0.5	1.4	Adverse	Small
20	312097	675162	1.5	CITY OF EDINBURGH	16.0	16.3	0.3	0.8	Adverse	Small
33	312564	675668	1.5	CITY OF EDINBURGH	16.3	16.5	0.2	0.5	Adverse	Small
37	313732	676168	1.5	CITY OF EDINBURGH	19.3	19.6	0.4	0.9	Adverse	Small
38	312883	677079	1.5	CITY OF EDINBURGH	18.5	18.7	0.2	0.5	Adverse	Small
39	312625	677131	1.5	CITY OF EDINBURGH	17.8	18.0	0.2	0.5	Adverse	Small
42	312939	677243	1.5	CITY OF EDINBURGH	23.9	24.2	0.3	0.7	Adverse	Small
43	312897	677251	1.5	CITY OF EDINBURGH	24.4	24.7	0.3	0.8	Adverse	Small
55	311542	677877	1.5	CITY OF EDINBURGH	23.2	23.0	-0.1	0.3	Beneficial	Imperceptible
1	309424	672187	1.5	WEST LoTHIAN	21.8	21.5	-0.3	0.7	Beneficial	Small
2	309423	672206	1.5	WEST LoTHIAN	22.8	22.5	-0.3	0.9	Beneficial	Small
21	308436	675253	1.5	WEST LoTHIAN	12.3	12.4	0.1	0.3	Adverse	Imperceptible
22	308437	675253	1.5	WEST LoTHIAN	12.3	12.4	0.1	0.3	Adverse	Imperceptible
23	309959	675268	1.5	WEST LoTHIAN	17.8	18.9	1.1	2.7	Adverse	Medium
24	309721	675279	1.5	WEST LoTHIAN	14.5	15.1	0.6	1.4	Adverse	Small
25	308079	675348	1.5	WEST LoTHIAN	15.3	15.3	0.1	0.1	Adverse	Imperceptible
26	308226	675396	1.5	WEST LoTHIAN	14.2	14.4	0.1	0.3	Adverse	Imperceptible
27	309276	675401	1.5	WEST LoTHIAN	13.2	13.7	0.6	1.4	Adverse	Small
28	308973	675427	1.5	WEST LoTHIAN	13.6	14.2	0.6	1.5	Adverse	Small
29	309034	675451	1.5	WEST LoTHIAN	14.3	15.0	0.7	1.8	Adverse	Small
30	309203	675497	1.5	WEST LoTHIAN	13.8	14.6	0.7	1.8	Adverse	Small
31	309128	675515	1.5	WEST LoTHIAN	15.1	16.0	1.0	2.4	Adverse	Medium
32	306883	675551	1.5	WEST LoTHIAN	11.1	10.7	-0.4	1.0	Beneficial	Small
34	306124	675712	1.5	WEST LoTHIAN	11.3	10.9	-0.4	1.0	Beneficial	Small
35	305998	675760	1.5	WEST LoTHIAN	11.4	11.1	-0.3	0.7	Beneficial	Small
36	305997	675823	1.5	WEST LoTHIAN	10.0	9.8	-0.2	0.5	Beneficial	Small
40	305956	677214	1.5	WEST LoTHIAN	13.3	13.1	-0.2	0.4	Beneficial	Small
41	306016	677200	1.5	WEST LoTHIAN	12.8	12.6	-0.2	0.6	Beneficial	Small
44	305924	677283	1.5	WEST LoTHIAN	13.4	13.3	-0.1	0.3	Beneficial	Imperceptible
45	305999	677306	1.5	WEST LoTHIAN	14.4	14.2	-0.2	0.5	Beneficial	Small
46	308820	677348	1.5	WEST LoTHIAN	14.1	13.6	-0.5	1.2	Beneficial	Small
47	308705	677406	1.5	WEST LoTHIAN	16.5	17.0	0.5	1.2	Adverse	Small
48	308797	677448	1.5	WEST LoTHIAN	17.3	17.1	-0.2	0.4	Beneficial	Small
49	309113	677606	1.5	WEST LoTHIAN	18.7	18.2	-0.5	1.4	Beneficial	Small
50	309167	677639	1.5	WEST LoTHIAN	19.9	19.3	-0.6	1.6	Beneficial	Small
51	309245	677710	1.5	WEST LoTHIAN	20.2	19.5	-0.7	1.7	Beneficial	Small
52	309215	677707	1.5	WEST LoTHIAN	18.1	17.5	-0.6	1.4	Beneficial	Small
53	309307	677775	1.5	WEST LoTHIAN	20.8	20.0	-0.8	1.9	Beneficial	Small
54	309289	677783	1.5	WEST LoTHIAN	17.5	17.0	-0.6	1.4	Beneficial	Small
56	310030	677927	1.5	WEST LoTHIAN	14.5	14.0	-0.5	1.1	Beneficial	Small
57	308071	675377	1.5	WEST LoTHIAN	13.7	13.8	0.1	0.1	Adverse	Imperceptible
58	308237	675431	1.5	WEST LoTHIAN	14.5	14.7	0.1	0.3	Adverse	Imperceptible
59	308327	675432	1.5	WEST LoTHIAN	14.8	15.2	0.4	1.0	Adverse	Small
60	308325	675403	1.5	WEST LoTHIAN	14.0	14.2	0.3	0.7	Adverse	Small
61	308491	675474	1.5	WEST LoTHIAN	13.9	14.3	0.4	1.0	Adverse	Small
62	308435	675415	1.5	WEST LoTHIAN	14.1	14.5	0.4	1.0	Adverse	Small
63	308585	675437	1.5	WEST LoTHIAN	13.9	14.3	0.5	1.2	Adverse	Small
64	308647	675466	1.5	WEST LoTHIAN	14.5	15.2	0.7	1.7	Adverse	Small
65	308859	675461	1.5	WEST LoTHIAN	14.9	15.7	0.8	2.1	Adverse	Medium
66	309052	675499	1.5	WEST LoTHIAN	14.9	15.8	0.9	2.3	Adverse	Medium
67	309111	675510	1.5	WEST LoTHIAN	15.7	16.8	1.1	2.7	Adverse	Medium
68	309171	675589	1.5	WEST LoTHIAN	15.9	17.3	1.4	3.4	Adverse	Medium
69	309170	675674	1.5	WEST LoTHIAN	14.2	15.5	1.3	3.2	Adverse	Medium
70	309205	675675	1.5	WEST LoTHIAN	15.0	17.0	2.0	5.0	Adverse	Large
71	309138	675774	1.5	WEST LoTHIAN	13.9	14.8	0.9	2.2	Adverse	Medium
72	309051	676438	1.5	WEST LoTHIAN	18.0	18.4	0.5	1.2	Adverse	Small

Table TA 8.4.1B: Modelling Results at Ecological Receptors - NOX (µg/m3)

Receptor Name	X(m)	Y(m)	Z(m)	Local Authority	Background	Do Minimum Scenario	Do Something Scenario	Traffic Contribution	Impact Descriptor
					BG	FB	FBD		
Receptor n	X(m)	Y(m)	Z(m)	District	NOx_SR_202	TotalNOx	TotalNOx	Change_NOx	Impact
PM1_0	306119.2	676861.3	0	WEST LOTH	14.4	25.6	24.3	-1.4	Negligible
PM1_10	306128.8	676858.8	0	WEST LOTH	14.4	21.2	20.5	-0.75	Negligible
PM1_20	306138.5	676856.3	0	WEST LOTH	14.4	20.0	19.4	-0.6	Negligible
PM1_30	306148.2	676853.9	0	WEST LOTH	14.4	19.3	18.8	-0.5	Negligible
PM1_40	306157.9	676851.6	0	WEST LOTH	14.4	18.9	18.4	-0.4	Negligible
PM1_50	306167.7	676849.3	0	WEST LOTH	14.4	18.5	18.2	-0.4	Negligible
PM1_75	306192	676843.7	0	WEST LOTH	14.4	18.0	17.7	-0.3	Negligible
PM1_100	306216.6	676837.9	0	WEST LOTH	14.4	17.6	17.4	-0.2	Negligible
PM1_150	306265	676826.1	0	WEST LOTH	14.4	17.1	17.0	-0.2	Negligible
PM1_200	306313.6	676814.5	0	WEST LOTH	14.4	16.9	16.7	-0.1	Negligible
PM2_0	306000.6	676822.4	0	WEST LOTH	14.4	23.3	22.2	-1.1	Negligible
PM2_10	306021.2	676816.4	0	WEST LOTH	14.4	20.1	19.5	-0.6	Negligible
PM2_20	306041.9	676810.3	0	WEST LOTH	14.4	19.2	18.7	-0.5	Negligible
PM2_30	306062.6	676804.3	0	WEST LOTH	14.4	18.6	18.2	-0.4	Negligible
PM2_40	306083.4	676798.2	0	WEST LOTH	14.4	18.2	17.8	-0.4	Negligible
PM2_50	306102.9	676792.3	0	WEST LOTH	14.4	17.9	17.6	-0.3	Negligible
PM2_75	306145.8	676779.9	0	WEST LOTH	14.4	17.4	17.2	-0.2	Negligible
PM2_100	306175.9	676771.1	0	WEST LOTH	14.4	17.2	17.0	-0.2	Negligible
PM2_150	306229.8	676755.3	0	WEST LOTH	14.4	16.9	16.7	-0.2	Negligible
PM2_200	306281.3	676740.4	0	WEST LOTH	14.4	16.7	16.5	-0.1	Negligible
PM3_0	305982.1	676720.7	0	WEST LOTH	12.0	17.0	16.5	-0.5	Negligible
PM3_10	305991.9	676718.2	0	WEST LOTH	12.0	16.6	16.1	-0.5	Negligible
PM3_20	306001.8	676716.6	0	WEST LOTH	14.4	18.5	18.1	-0.4	Negligible
PM3_30	306011.5	676714.6	0	WEST LOTH	14.4	18.3	17.9	-0.4	Negligible
PM3_40	306021.4	676712.6	0	WEST LOTH	14.4	18.1	17.7	-0.4	Negligible
PM3_50	306031	676710.6	0	WEST LOTH	14.4	17.9	17.6	-0.3	Negligible
PM3_75	306055.6	676705.4	0	WEST LOTH	14.4	17.6	17.3	-0.3	Negligible
PM3_100	306080	676700.4	0	WEST LOTH	14.4	17.3	17.1	-0.3	Negligible
PM3_150	306129	676690.1	0	WEST LOTH	14.4	17.0	16.8	-0.2	Negligible
PM3_200	306210.4	676673.2	0	WEST LOTH	14.4	16.7	16.6	-0.2	Negligible

Table TA 8.4.1A: Modelling Results at Receptors immediately adjacent to the junction using EPUK/IAQM Guidance - NO2 (µg/m3)

Receptor Name	X(m)	Y(m)	Z(m)	Local Authority	Do Minimum Scenario	Do Something Scenario	Traffic Contribution	% Change relative to AQAL	Impact Descriptor
72	309051	676438	1.5	WEST LOTHIAN	18.0	18.4	0.5	1	Negligible
27	309276	675401	1.5	WEST LOTHIAN	13.2	13.7	0.6	1	Negligible
71	309138	675774	1.5	WEST LOTHIAN	13.9	14.8	0.9	2	Negligible

Table TA 8.4.1A: Modelling Results at Receptors immediately adjacent to the junction using EPUK/IAQM Guidance - PM10 (µg/m3)

Receptor Name	X(m)	Y(m)	Z(m)	Local Authority	Do Minimum Scenario	Do Something Scenario	Traffic Contribution	% Change relative to AQAL	Impact Descriptor
72	309051	676438	1.5	WEST LOTHIAN	12.7	12.7	0.0	0	Negligible
27	309276	675401	1.5	WEST LOTHIAN	12.1	12.2	0.1	0	Negligible
71	309138	675774	1.5	WEST LOTHIAN	12.2	12.4	0.2	0	Negligible

Table TA 8.4.1A: Modelling Results at Receptors immediately adjacent to the junction using EPUK/IAQM Guidance - PM2.5 (µg/m3)

Receptor Name	X(m)	Y(m)	Z(m)	Local Authority	Do Minimum Scenario	Do Something Scenario	Traffic Contribution	% Change relative to AQAL	Impact Descriptor
72	309051	676438	1.5	WEST LOTHIAN	6.8	6.9	0.0	0	Negligible
27	309276	675401	1.5	WEST LOTHIAN	6.6	6.6	0.1	0	Negligible
71	309138	675774	1.5	WEST LOTHIAN	6.6	6.7	0.1	0	Negligible