



# The Sizewell C Project

## 6.7 Volume 6 Sizewell Link Road Chapter 4 Noise and Vibration

Appendices 4A - 4B

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## **Plates**

**None provided.**

## **Figures**

**None provided.**

## 1. Road Traffic Flow Data

**Table 1.1: Sizewell Link Road east of A12 - Speed = 80 km/h.**

Sizewell link road - East of A12	2028 Typical Peak Construction		2028 Busiest Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	14	0	14	0	2
01:00–02:00.	0	5	0	5	0	1
02:00–03:00.	0	2	0	2	0	2
03:00–04:00.	0	2	0	2	0	2
04:00–05:00.	1	5	1	5	1	4
05:00–06:00.	9	23	9	23	1	11
06:00–07:00.	38	76	45	72	3	55
07:00–08:00.	62	71	86	71	9	54
08:00–09:00.	75	88	94	82	17	136
09:00–10:00.	57	75	83	72	14	73
10:00–11:00.	57	75	82	73	16	71
11:00–12:00.	64	81	91	78	16	75
12:00–13:00.	57	85	82	82	13	75
13:00–14:00.	71	87	95	84	14	71
14:00–15:00.	69	82	94	79	9	77
15:00–16:00.	87	108	112	108	18	97
16:00–17:00.	67	92	88	90	14	129
17:00–18:00.	56	130	72	128	6	111
18:00–19:00.	47	114	59	111	4	90
19:00–20:00.	21	51	31	50	2	34
20:00–21:00.	26	32	32	31	0	22
21:00–22:00.	10	21	12	21	1	20
22:00–23:00.	12	17	14	17	0	14
23:00–00:00.	13	8	14	8	0	5

**Table 1.2: Sizewell Link Road west of B1125 - Speed = 80 km/h.**

Sizewell link road - West of B1125	2028 Typical Peak Construction		2028 Busiest Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	35	0	34	0	10
01:00–02:00.	0	14	0	14	0	7
02:00–03:00.	0	7	0	6	0	7
03:00–04:00.	0	7	0	7	0	8
04:00–05:00.	1	17	1	17	1	16
05:00–06:00.	18	62	18	62	2	47
06:00–07:00.	66	314	74	310	9	288
07:00–08:00.	97	384	129	384	23	363
08:00–09:00.	117	336	136	331	33	396
09:00–10:00.	72	309	103	307	23	305
10:00–11:00.	74	304	103	302	24	300
11:00–12:00.	81	308	113	306	24	303
12:00–13:00.	74	311	103	309	21	301
13:00–14:00.	105	313	133	311	22	296
14:00–15:00.	103	314	132	312	17	308
15:00–16:00.	126	383	156	383	28	370
16:00–17:00.	96	410	121	409	23	446
17:00–18:00.	84	386	102	384	9	376
18:00–19:00.	75	398	90	392	7	358
19:00–20:00.	27	172	39	170	5	145
20:00–21:00.	48	109	55	109	3	96
21:00–22:00.	23	84	26	83	3	81
22:00–23:00.	25	64	28	63	2	56
23:00–00:00.	31	29	32	29	1	24

**Table 1.3: Theberton Bypass - Speed = 80 km/h.**

Sizewell link road - Theberton Bypass	2028 Typical Peak Construction		2028 Busiest Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	55	0	56	0	14
01:00–02:00.	0	21	0	21	0	4
02:00–03:00.	0	9	0	9	0	9
03:00–04:00.	0	10	0	10	0	11
04:00–05:00.	1	23	1	23	1	22
05:00–06:00.	17	90	18	86	2	66
06:00–07:00.	64	432	72	429	7	393
07:00–08:00.	96	570	128	555	21	538
08:00–09:00.	115	463	134	457	31	624
09:00–10:00.	71	429	101	426	21	421
10:00–11:00.	72	426	102	423	23	415
11:00–12:00.	79	431	111	428	23	417
12:00–13:00.	72	436	101	432	20	416
13:00–14:00.	103	443	131	436	20	414
14:00–15:00.	102	441	130	439	16	430
15:00–16:00.	125	546	155	546	27	519
16:00–17:00.	93	593	118	593	20	711
17:00–18:00.	84	517	102	517	9	474
18:00–19:00.	73	534	88	532	7	458
19:00–20:00.	26	250	38	249	5	202
20:00–21:00.	47	160	55	158	2	132
21:00–22:00.	23	122	25	121	2	118
22:00–23:00.	25	94	27	94	1	83
23:00–00:00.	31	43	32	43	1	33

**Table 1.4: Middleton Moor Link - Speed = 80 km/h.**

Sizewell link road - Middleton Moor Link	2028 Typical Peak Construction		2028 Busiest Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	16	0	16	0	8
01:00–02:00.	0	7	0	7	0	5
02:00–03:00.	0	4	0	4	0	5
03:00–04:00.	0	6	0	6	0	6
04:00–05:00.	0	12	0	12	0	12
05:00–06:00.	8	43	8	43	1	37
06:00–07:00.	27	242	28	242	6	236
07:00–08:00.	37	320	44	320	13	317
08:00–09:00.	40	261	42	261	16	272
09:00–10:00.	16	243	20	242	9	241
10:00–11:00.	17	240	22	240	9	240
11:00–12:00.	18	237	23	237	8	238
12:00–13:00.	17	240	21	240	8	239
13:00–14:00.	34	238	38	237	8	232
14:00–15:00.	35	243	39	243	8	244
15:00–16:00.	40	289	44	289	11	288
16:00–17:00.	30	329	34	329	9	326
17:00–18:00.	28	270	31	270	3	278
18:00–19:00.	28	293	31	291	3	277
19:00–20:00.	7	125	8	125	4	116
20:00–21:00.	22	81	23	81	3	75
21:00–22:00.	14	65	14	64	2	63
22:00–23:00.	13	46	13	46	1	43
23:00–00:00.	18	22	18	22	1	20



**Table 1.5: Extension to B1125 - Speed = 80 km/h.**

Sizewell link road - Extension to B1125	2028 Typical Peak Construction		2028 Busiest Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	20	0	19	0	6
01:00–02:00.	0	8	0	8	0	4
02:00–03:00.	0	4	0	4	0	4
03:00–04:00.	0	4	0	4	0	5
04:00–05:00.	0	10	0	10	0	9
05:00–06:00.	0	40	0	38	0	28
06:00–07:00.	0	135	0	134	0	126
07:00–08:00.	2	209	2	195	2	205
08:00–09:00.	5	166	5	166	5	284
09:00–10:00.	3	168	3	166	3	173
10:00–11:00.	4	168	4	166	4	170
11:00–12:00.	4	171	4	170	4	173
12:00–13:00.	4	174	4	172	4	172
13:00–14:00.	4	177	4	174	4	170
14:00–15:00.	3	172	3	170	3	177
15:00–16:00.	7	242	7	242	7	237
16:00–17:00.	9	245	9	244	9	334
17:00–18:00.	2	208	2	206	2	191
18:00–19:00.	0	179	0	182	0	154
19:00–20:00.	1	99	1	98	1	84
20:00–21:00.	0	64	0	63	0	55
21:00–22:00.	0	48	0	48	0	51
22:00–23:00.	0	36	0	36	0	36
23:00–00:00.	0	17	0	17	0	14

**NOT PROTECTIVELY MARKED**

**Table 1.6: A12 South of Sizewell Link Road - Speed = 96 km/h.**

A12 - South of Sizewell link road	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	2	47	2	47	2	28
01:00–02:00.	1	23	1	23	1	18
02:00–03:00.	1	16	1	16	1	17
03:00–04:00.	1	20	1	20	1	21
04:00–05:00.	3	43	3	42	3	42
05:00–06:00.	16	145	17	145	8	131
06:00–07:00.	75	432	81	429	42	383
07:00–08:00.	118	773	143	771	66	769
08:00–09:00.	139	895	157	880	75	924
09:00–10:00.	95	818	121	812	49	854
10:00–11:00.	94	819	118	814	50	850
11:00–12:00.	99	817	126	812	49	845
12:00–13:00.	95	826	120	821	49	850
13:00–14:00.	106	815	130	810	48	822
14:00–15:00.	110	838	135	832	50	865
15:00–16:00.	135	999	161	999	66	1059
16:00–17:00.	98	1090	119	1078	44	1128
17:00–18:00.	81	1073	97	1068	35	1093
18:00–19:00.	67	823	79	821	24	789
19:00–20:00.	41	424	51	422	23	416
20:00–21:00.	41	276	48	274	15	271
21:00–22:00.	22	222	24	221	12	225
22:00–23:00.	21	157	23	156	8	153
23:00–00:00.	18	75	19	75	4	73

**NOT PROTECTIVELY MARKED**

**Table 1.7: A12 North of Sizewell Link Road - Speed = 48 km/h.**

A12 - North of Sizewell link road	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	2	32	2	32	2	27
01:00–02:00.	1	19	1	19	1	18
02:00–03:00.	1	15	1	15	1	17
03:00–04:00.	1	19	1	19	1	21
04:00–05:00.	2	39	2	39	3	41
05:00–06:00.	8	127	8	127	8	128
06:00–07:00.	41	375	41	374	44	396
07:00–08:00.	62	710	63	708	67	780
08:00–09:00.	77	837	75	827	76	952
09:00–10:00.	47	768	47	764	49	836
10:00–11:00.	47	767	47	763	49	832
11:00–12:00.	47	764	47	759	48	828
12:00–13:00.	47	770	47	766	48	828
13:00–14:00.	45	753	45	748	47	801
14:00–15:00.	47	782	47	777	49	841
15:00–16:00.	64	933	64	932	67	1095
16:00–17:00.	42	1035	42	1022	45	1150
17:00–18:00.	33	982	33	974	35	1121
18:00–19:00.	23	732	23	733	24	808
19:00–20:00.	22	384	22	382	23	404
20:00–21:00.	14	251	14	249	15	263
21:00–22:00.	12	205	12	204	12	218
22:00–23:00.	8	142	8	141	8	149
23:00–00:00.	4	68	4	67	4	71

**Table 1.8: Yoxford Junction - A12 (S) - Speed = 48 km/h.**

Yoxford Junction - A12 (S)	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	2	59	2	59	2	36
01:00–02:00.	1	29	1	29	1	24
02:00–03:00.	1	20	1	20	1	22
03:00–04:00.	1	25	1	25	1	28
04:00–05:00.	3	54	3	54	3	56
05:00–06:00.	9	180	9	180	9	170
06:00–07:00.	51	504	51	504	54	479
07:00–08:00.	77	1015	78	1014	82	1048
08:00–09:00.	91	1096	89	1086	91	1222
09:00–10:00.	56	1020	56	1017	60	1105
10:00–11:00.	56	1018	56	1015	59	1100
11:00–12:00.	56	1014	56	1011	59	1095
12:00–13:00.	56	1030	56	1027	59	1104
13:00–14:00.	54	1016	54	1012	57	1069
14:00–15:00.	57	1045	57	1041	60	1123
15:00–16:00.	62	1300	62	1300	65	1424
16:00–17:00.	61	1368	61	1357	64	1446
17:00–18:00.	36	1307	36	1304	38	1415
18:00–19:00.	29	1015	30	1015	30	1036
19:00–20:00.	26	527	26	525	28	538
20:00–21:00.	17	343	17	342	18	352
21:00–22:00.	14	273	14	272	15	288
22:00–23:00.	10	195	10	194	10	198
23:00–00:00.	5	93	5	93	5	95

**NOT PROTECTIVELY MARKED**

**Table 1.9: Yoxford Junction - A12 (N) - Speed = 48 km/h.**

Yoxford Junction - A12 (N)	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	2	62	2	62	2	35
01:00–02:00.	1	30	1	30	1	23
02:00–03:00.	1	20	1	20	1	21
03:00–04:00.	1	25	1	25	2	27
04:00–05:00.	3	54	3	54	3	53
05:00–06:00.	17	186	17	186	10	163
06:00–07:00.	72	595	73	595	52	542
07:00–08:00.	110	1075	118	1074	89	1060
08:00–09:00.	123	1076	123	1066	97	1129
09:00–10:00.	68	1016	72	1012	62	1063
10:00–11:00.	69	1017	73	1013	62	1059
11:00–12:00.	69	1013	74	1009	62	1052
12:00–13:00.	68	1028	73	1024	62	1059
13:00–14:00.	85	1021	90	1017	60	1025
14:00–15:00.	89	1049	93	1045	63	1079
15:00–16:00.	105	1230	109	1229	78	1302
16:00–17:00.	80	1429	83	1419	63	1472
17:00–18:00.	67	1272	70	1266	40	1310
18:00–19:00.	52	1020	55	1018	28	988
19:00–20:00.	32	523	33	521	30	518
20:00–21:00.	40	340	41	339	20	337
21:00–22:00.	28	274	28	273	16	279
22:00–23:00.	23	195	23	195	11	191
23:00–00:00.	24	93	24	93	5	91

**Table 1.10: Yoxford Junction - A1120 West of A12 - Speed = 48 km/h.**

A1120 - West of A12	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	25	0	25	0	10
01:00–02:00.	0	11	0	11	0	7
02:00–03:00.	0	6	0	6	0	6
03:00–04:00.	0	7	0	7	0	8
04:00–05:00.	1	16	1	16	1	16
05:00–06:00.	2	59	2	59	2	47
06:00–07:00.	6	169	6	169	6	135
07:00–08:00.	15	311	15	311	15	288
08:00–09:00.	19	304	19	304	19	331
09:00–10:00.	14	303	14	303	14	301
10:00–11:00.	13	300	13	300	13	299
11:00–12:00.	13	299	13	299	13	298
12:00–13:00.	13	303	13	303	13	299
13:00–14:00.	13	302	13	302	13	288
14:00–15:00.	14	305	14	305	14	302
15:00–16:00.	24	425	24	425	24	424
16:00–17:00.	19	403	19	403	19	392
17:00–18:00.	8	389	8	389	8	390
18:00–19:00.	5	326	5	326	5	292
19:00–20:00.	5	161	5	161	5	145
20:00–21:00.	4	104	4	104	4	94
21:00–22:00.	3	82	3	82	3	78
22:00–23:00.	2	60	2	60	2	53
23:00–00:00.	1	28	1	28	1	25

**Table 1.11: Yoxford Junction – B1122 - Speed = 48 km/h.**

Yoxford Junction - B1122	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	17	0	17	0	9
01:00–02:00.	0	8	0	8	0	6
02:00–03:00.	0	5	0	5	0	6
03:00–04:00.	0	6	0	6	0	7
04:00–05:00.	0	13	0	13	0	15
05:00–06:00.	8	45	8	45	2	42
06:00–07:00.	30	249	30	249	6	247
07:00–08:00.	39	342	46	342	16	349
08:00–09:00.	45	279	47	279	19	322
09:00–10:00.	11	258	15	258	14	282
10:00–11:00.	13	255	17	255	13	280
11:00–12:00.	14	253	19	253	13	280
12:00–13:00.	13	256	17	256	13	280
13:00–14:00.	30	251	34	252	12	268
14:00–15:00.	31	257	35	258	13	281
15:00–16:00.	46	302	50	302	17	336
16:00–17:00.	39	341	42	343	20	356
17:00–18:00.	31	295	33	297	6	333
18:00–19:00.	31	309	33	307	6	318
19:00–20:00.	6	131	8	131	5	135
20:00–21:00.	21	85	22	85	3	88
21:00–22:00.	13	68	14	68	2	72
22:00–23:00.	13	48	13	48	2	49
23:00–00:00.	18	22	18	22	1	23

**NOT PROTECTIVELY MARKED**

**Table 1.12: B1122 Middleton Moor - Speed = 48 km/h.**

B1122 through Middleton Moor	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	1	0	1	0	1
01:00–02:00.	0	1	0	1	0	1
02:00–03:00.	0	0	0	0	0	1
03:00–04:00.	0	1	0	1	0	1
04:00–05:00.	0	1	0	1	0	1
05:00–06:00.	0	4	0	4	0	4
06:00–07:00.	0	7	0	7	0	8
07:00–08:00.	0	24	0	24	0	24
08:00–09:00.	0	27	0	27	0	27
09:00–10:00.	0	24	0	25	0	25
10:00–11:00.	0	24	0	25	0	25
11:00–12:00.	0	24	0	24	0	25
12:00–13:00.	0	24	0	25	0	25
13:00–14:00.	0	23	0	24	0	24
14:00–15:00.	0	25	0	25	0	25
15:00–16:00.	0	31	0	31	0	34
16:00–17:00.	2	26	2	27	2	27
17:00–18:00.	0	33	0	35	0	35
18:00–19:00.	0	27	0	27	0	26
19:00–20:00.	0	12	0	12	0	12
20:00–21:00.	0	8	0	8	0	8
21:00–22:00.	0	6	0	6	0	7
22:00–23:00.	0	4	0	4	0	5
23:00–00:00.	0	2	0	2	0	2



**Table 1.13: B1122 West of B1125 - Speed = 48-80 km/h.**

B1122 west of B1125	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	2	0	2	0	8
01:00–02:00.	0	1	0	1	0	5
02:00–03:00.	0	0	0	0	0	5
03:00–04:00.	0	0	0	0	0	6
04:00–05:00.	0	1	0	1	0	12
05:00–06:00.	0	3	0	3	1	35
06:00–07:00.	0	7	0	7	6	231
07:00–08:00.	0	9	0	9	15	303
08:00–09:00.	0	10	0	10	18	263
09:00–10:00.	0	6	0	6	13	230
10:00–11:00.	0	6	0	6	12	229
11:00–12:00.	0	6	0	6	12	229
12:00–13:00.	0	7	0	7	12	229
13:00–14:00.	0	9	0	9	12	219
14:00–15:00.	0	7	0	7	12	229
15:00–16:00.	0	14	0	14	16	278
16:00–17:00.	0	5	0	5	18	303
17:00–18:00.	0	8	0	8	6	253
18:00–19:00.	0	6	0	6	6	261
19:00–20:00.	0	6	0	6	4	110
20:00–21:00.	0	4	0	4	3	72
21:00–22:00.	0	2	0	2	2	59
22:00–23:00.	0	2	0	2	1	39
23:00–00:00.	0	1	0	1	1	18

**Table 1.14: B1122 Theberton - Speed = 48 km/h.**

B1122 Theberton	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	2	0	1	0	13
01:00–02:00.	0	1	0	1	0	9
02:00–03:00.	0	1	0	1	0	9
03:00–04:00.	0	1	0	1	0	10
04:00–05:00.	0	2	0	2	1	21
05:00–06:00.	0	8	0	11	2	64
06:00–07:00.	0	19	0	19	7	360
07:00–08:00.	0	40	0	55	18	511
08:00–09:00.	0	43	0	43	25	463
09:00–10:00.	0	38	0	39	15	403
10:00–11:00.	0	36	0	38	17	399
11:00–12:00.	0	35	0	37	19	402
12:00–13:00.	0	36	0	38	16	403
13:00–14:00.	0	36	0	41	18	384
14:00–15:00.	0	36	0	37	15	402
15:00–16:00.	0	46	0	46	26	505
16:00–17:00.	0	40	0	40	19	547
17:00–18:00.	0	38	0	38	9	432
18:00–19:00.	0	29	0	29	5	416
19:00–20:00.	0	17	0	18	4	196
20:00–21:00.	0	11	0	13	2	127
21:00–22:00.	0	9	0	9	2	104
22:00–23:00.	0	6	0	6	1	70
23:00–00:00.	0	3	0	3	1	33

**NOT PROTECTIVELY MARKED**

**Table 1.15: B1122 North of Sizewell Link Road - Speed = 80 km/h.**

B1122 N of SZC Access	2028 Typical Peak Construction		2028 Busiest Day Peak Construction		2034 Operational Phase	
	Do something opening year		Do something opening year		Do something future year	
Time	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.	HDVs per Hour.	Cars per Hour.
00:00–01:00.	0	49	0	49	0	13
01:00–02:00.	0	19	0	19	0	9
02:00–03:00.	0	8	0	8	0	9
03:00–04:00.	0	10	0	10	0	10
04:00–05:00.	1	25	1	25	1	21
05:00–06:00.	18	101	18	101	2	63
06:00–07:00.	65	444	72	441	7	360
07:00–08:00.	101	593	130	593	18	511
08:00–09:00.	105	489	132	483	25	463
09:00–10:00.	72	445	103	443	16	403
10:00–11:00.	71	444	100	443	16	400
11:00–12:00.	78	448	110	446	17	402
12:00–13:00.	71	458	100	456	15	403
13:00–14:00.	103	463	130	462	17	386
14:00–15:00.	106	455	134	453	17	405
15:00–16:00.	125	566	155	566	26	505
16:00–17:00.	93	611	118	611	19	547
17:00–18:00.	84	528	102	528	9	432
18:00–19:00.	74	542	89	540	5	416
19:00–20:00.	27	251	39	250	5	192
20:00–21:00.	49	165	56	164	3	127
21:00–22:00.	23	124	25	123	2	103
22:00–23:00.	25	94	27	94	1	71
23:00–00:00.	31	44	31	44	1	33

**Table 1.16: A12 South of Sizewell Link Road - Speed = 96 km/h. Reference Case Figures**

A12 - South of SLR	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	2	27	2	28
01:00–02:00.	1	17	1	18
02:00–03:00.	1	16	1	17
03:00–04:00.	1	20	1	21
04:00–05:00.	3	40	3	42
05:00–06:00.	8	123	8	131
06:00–07:00.	42	362	42	383
07:00–08:00.	64	731	66	769
08:00–09:00.	76	873	75	924
09:00–10:00.	49	806	49	854
10:00–11:00.	49	803	50	850
11:00–12:00.	49	799	49	845
12:00–13:00.	49	803	49	850
13:00–14:00.	47	777	48	822
14:00–15:00.	50	817	50	865
15:00–16:00.	65	997	66	1059
16:00–17:00.	45	1072	44	1128
17:00–18:00.	33	1024	35	1093
18:00–19:00.	24	746	24	789
19:00–20:00.	23	393	23	416
20:00–21:00.	15	256	15	271
21:00–22:00.	12	212	12	225
22:00–23:00.	8	145	8	153
23:00–00:00.	4	69	4	73

**Table 1.17: A12 North of Sizewell Link Road - Speed = 48 km/h. Reference Case Figures**

A12 - North of SLR	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	2	26	2	27
01:00–02:00.	1	17	1	18
02:00–03:00.	1	16	1	17
03:00–04:00.	1	20	1	21
04:00–05:00.	3	39	3	41
05:00–06:00.	8	121	8	128
06:00–07:00.	42	375	44	396
07:00–08:00.	65	741	67	780
08:00–09:00.	76	899	76	952
09:00–10:00.	49	790	49	836
10:00–11:00.	49	786	49	832
11:00–12:00.	49	783	48	828
12:00–13:00.	49	782	48	828
13:00–14:00.	47	757	47	801
14:00–15:00.	49	795	49	841
15:00–16:00.	65	1029	67	1095
16:00–17:00.	45	1093	45	1150
17:00–18:00.	33	1051	35	1121
18:00–19:00.	24	763	24	808
19:00–20:00.	23	382	23	404
20:00–21:00.	15	248	15	263
21:00–22:00.	12	206	12	218
22:00–23:00.	8	141	8	149
23:00–00:00.	4	67	4	71

**Table 1.18: Yoxford Junction - A12 (S) - Speed = 48 km/h. Reference Case Figures**

Yoxford Junction - A12 (S)	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	2	34	2	36
01:00–02:00.	1	23	1	24
02:00–03:00.	1	21	1	22
03:00–04:00.	1	26	1	28
04:00–05:00.	3	53	3	56
05:00–06:00.	9	160	9	170
06:00–07:00.	52	455	54	479
07:00–08:00.	79	999	82	1048
08:00–09:00.	90	1134	91	1222
09:00–10:00.	58	1039	60	1105
10:00–11:00.	58	1035	59	1100
11:00–12:00.	58	1029	59	1095
12:00–13:00.	58	1039	59	1104
13:00–14:00.	56	1006	57	1069
14:00–15:00.	59	1057	60	1123
15:00–16:00.	64	1314	65	1424
16:00–17:00.	63	1380	64	1446
17:00–18:00.	36	1327	38	1415
18:00–19:00.	31	987	30	1036
19:00–20:00.	27	506	28	538
20:00–21:00.	18	331	18	352
21:00–22:00.	15	271	15	288
22:00–23:00.	10	186	10	198
23:00–00:00.	5	89	5	95

**Table 1.19: Yoxford Junction - A12 (N) - Speed = 48 km/h. Reference Case Figures**

Yoxford Junction - A12 (N)	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	2	33	2	35
01:00–02:00.	1	22	1	23
02:00–03:00.	1	20	1	21
03:00–04:00.	2	25	2	27
04:00–05:00.	3	50	3	53
05:00–06:00.	9	154	10	163
06:00–07:00.	51	519	52	542
07:00–08:00.	86	1014	89	1060
08:00–09:00.	96	1050	97	1129
09:00–10:00.	61	1004	62	1063
10:00–11:00.	61	1000	62	1059
11:00–12:00.	61	993	62	1052
12:00–13:00.	61	1000	62	1059
13:00–14:00.	59	968	60	1025
14:00–15:00.	62	1019	63	1079
15:00–16:00.	77	1200	78	1302
16:00–17:00.	62	1411	63	1472
17:00–18:00.	40	1233	40	1310
18:00–19:00.	28	947	28	988
19:00–20:00.	30	489	30	518
20:00–21:00.	19	319	20	337
21:00–22:00.	16	263	16	279
22:00–23:00.	11	180	11	191
23:00–00:00.	5	86	5	91

**Table 1.20: Yoxford Junction - A1120 West of A12 - Speed = 48 km/h.**

Yoxford Junction - A1120 West of A12	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	0	9	0	10
01:00–02:00.	0	6	0	7
02:00–03:00.	0	6	0	6
03:00–04:00.	0	7	0	8
04:00–05:00.	1	14	1	16
05:00–06:00.	2	42	2	47
06:00–07:00.	6	128	6	135
07:00–08:00.	15	272	15	288
08:00–09:00.	18	286	19	331
09:00–10:00.	14	273	14	301
10:00–11:00.	13	271	13	299
11:00–12:00.	13	270	13	298
12:00–13:00.	13	271	13	299
13:00–14:00.	13	261	13	288
14:00–15:00.	13	274	14	302
15:00–16:00.	24	359	24	424
16:00–17:00.	19	370	19	392
17:00–18:00.	8	354	8	390
18:00–19:00.	4	280	5	292
19:00–20:00.	5	131	5	145
20:00–21:00.	4	85	4	94
21:00–22:00.	3	71	3	78
22:00–23:00.	2	48	2	53
23:00–00:00.	1	22	1	25



**Table 1.21: Yoxford Junction – B1122 - Speed = 48 km/h. Reference Case Figures**

Yoxford Junction - B1122	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	0	9	0	9
01:00–02:00.	0	6	0	6
02:00–03:00.	0	5	0	6
03:00–04:00.	0	7	0	7
04:00–05:00.	0	14	0	15
05:00–06:00.	2	40	2	42
06:00–07:00.	6	240	6	247
07:00–08:00.	15	335	16	349
08:00–09:00.	18	293	19	322
09:00–10:00.	13	263	14	282
10:00–11:00.	13	261	13	280
11:00–12:00.	12	261	13	280
12:00–13:00.	12	262	13	280
13:00–14:00.	12	250	12	268
14:00–15:00.	12	262	13	281
15:00–16:00.	17	303	17	336
16:00–17:00.	20	340	20	356
17:00–18:00.	6	307	6	333
18:00–19:00.	6	309	6	318
19:00–20:00.	5	126	5	135
20:00–21:00.	3	82	3	88
21:00–22:00.	2	67	2	72
22:00–23:00.	1	45	2	49
23:00–00:00.	1	21	1	23

**Table 1.22: B1122 Middleton Moor - Speed = 48 km/h. Reference Case Figures**

B1122 through Middleton Moor	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	0	9	0	9
01:00–02:00.	0	6	0	6
02:00–03:00.	0	5	0	6
03:00–04:00.	0	7	0	7
04:00–05:00.	0	14	0	15
05:00–06:00.	2	40	2	42
06:00–07:00.	6	240	6	247
07:00–08:00.	15	335	16	349
08:00–09:00.	18	293	19	322
09:00–10:00.	13	263	14	282
10:00–11:00.	13	261	13	280
11:00–12:00.	12	261	13	280
12:00–13:00.	12	262	13	280
13:00–14:00.	12	250	12	268
14:00–15:00.	12	262	13	281
15:00–16:00.	17	303	17	336
16:00–17:00.	20	340	20	356
17:00–18:00.	6	307	6	333
18:00–19:00.	6	309	6	318
19:00–20:00.	5	126	5	135
20:00–21:00.	3	82	3	88
21:00–22:00.	2	67	2	72
22:00–23:00.	1	45	2	49
23:00–00:00.	1	21	1	23

**Table 1.23: B1122 West of B1125 - Speed = 48-80 km/h. Reference Case Figures**

B1122 West of B1125	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	0	7	0	8
01:00–02:00.	0	5	0	5
02:00–03:00.	0	4	0	5
03:00–04:00.	0	6	0	6
04:00–05:00.	0	11	0	12
05:00–06:00.	1	33	1	35
06:00–07:00.	6	223	6	231
07:00–08:00.	15	293	15	303
08:00–09:00.	18	241	18	263
09:00–10:00.	13	217	13	230
10:00–11:00.	12	215	12	229
11:00–12:00.	12	216	12	229
12:00–13:00.	12	216	12	229
13:00–14:00.	12	206	12	219
14:00–15:00.	12	216	12	229
15:00–16:00.	16	253	16	278
16:00–17:00.	18	292	18	303
17:00–18:00.	6	235	6	253
18:00–19:00.	6	256	6	261
19:00–20:00.	4	104	4	110
20:00–21:00.	3	68	3	72
21:00–22:00.	2	55	2	59
22:00–23:00.	1	37	1	39
23:00–00:00.	1	17	1	18

**Table 1.24: B1122 Theberton - Speed = 48 km/h. Reference Case Figures**

B1122 Theberton	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	0	13	0	13
01:00–02:00.	0	8	0	9
02:00–03:00.	0	8	0	9
03:00–04:00.	0	10	0	10
04:00–05:00.	1	20	1	21
05:00–06:00.	2	60	2	64
06:00–07:00.	7	350	7	360
07:00–08:00.	18	496	18	511
08:00–09:00.	23	428	25	463
09:00–10:00.	14	381	15	403
10:00–11:00.	17	377	17	399
11:00–12:00.	18	381	19	402
12:00–13:00.	16	382	16	403
13:00–14:00.	18	363	18	384
14:00–15:00.	14	381	15	402
15:00–16:00.	26	461	26	505
16:00–17:00.	19	529	19	547
17:00–18:00.	9	406	9	432
18:00–19:00.	5	409	5	416
19:00–20:00.	4	186	4	196
20:00–21:00.	2	120	2	127
21:00–22:00.	2	99	2	104
22:00–23:00.	1	66	1	70
23:00–00:00.	1	31	1	33

**Table 1.25: B1122 North of Sizewell Link Road - Speed = 80 km/h. Reference Case Figures**

B1122 N of SZC Access	No SZC Traffic			
	2028 Reference Case.		2034 Reference Case.	
Time	Do minimum opening year		Do minimum future year	
	HGVs per Hour.	Cars per Hour.	HGVs per Hour.	Cars per Hour.
00:00–01:00.	0	13	0	13
01:00–02:00.	0	8	0	9
02:00–03:00.	0	8	0	9
03:00–04:00.	0	10	0	10
04:00–05:00.	1	20	1	21
05:00–06:00.	2	60	2	63
06:00–07:00.	7	350	7	360
07:00–08:00.	18	496	18	511
08:00–09:00.	23	428	25	463
09:00–10:00.	16	382	16	403
10:00–11:00.	15	378	16	400
11:00–12:00.	16	381	17	402
12:00–13:00.	14	382	15	403
13:00–14:00.	16	365	17	386
14:00–15:00.	17	383	17	405
15:00–16:00.	26	461	26	505
16:00–17:00.	19	529	19	547
17:00–18:00.	9	406	9	432
18:00–19:00.	5	409	5	416
19:00–20:00.	5	181	5	192
20:00–21:00.	3	120	3	127
21:00–22:00.	2	98	2	103
22:00–23:00.	1	67	1	71
23:00–00:00.	1	31	1	33



## VOLUME 6, CHAPTER 4, APPENDIX 4B : CONSTRUCTION ASSUMPTIONS AND CALCULATIONS

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## Plates

**None provided.**

## Figures

**None provided.**

## 1. Construction Assumptions and Calculations

### 1.1 Construction assumptions

**Table 1.1: Assumed activities and noise sources for each phase**

Activity	Key noise sources	Sound power level, dB, L <sub>WA</sub>	On time, %
Site set up and Clearance	Lorry loader crane HIAB	104	25
	Diesel / petrol generators	97	100
	360 Wheeled / tracked excavators	107	70
	180 Backhoe loaders	107	50
	Dump Trucks	106	70
	Telehandlers	107	50
	Chainsaws and brush-cutters	115	17
	Wood chippers	121	17
	Road sweeper / gully sucker	107	50
	Vibratory tamping rollers	111	50
Earthworks	Tracked dozers	108	50
	Wheeled loading shovels	107	50
	360 Tracked excavators	110	70
	Motor graders / scrapers	108	50
	Articulated haulers/dump trucks	108	50
	Vibratory tamping rollers	111	50
	Road tipper waggons	107	50
Drainage	Lorry loader crane HIAB	104	25
	360 Tracked excavators	110	70
	180 Backhoe loaders	107	50
	Dump trucks	106	70
	Wheeled loading shovels	107	50
	Concrete mixer trucks	107	50
	Trench rammers	91	25
Pavements	Cold planer/milling machines	104	70
	Motor graders / dozers	108	50
	Wheeled loading shovels	107	50
	Dump trucks	108	50
	360 Tracked excavators	110	70



**NOT PROTECTIVELY MARKED**

Activity	Key noise sources	Sound power level, dB, L <sub>WA</sub>	On time, %
	180 Backhoe loaders	107	50
	Asphalt pavers (and tipper lorries)	109	70
	Concrete mixer trucks	107	70
	Compressors and pneumatic hand tools	118	17
	Deadweight / vibrating rollers	111	50
	Vibrating plate compactors	110	25
	Road Sweeper	107	70
Kerbs, Footways and Paved Areas	Lorry loader crane HIAB	104	25
	Telehandlers	107	50
	Cold planer/milling machines	104	70
	Concrete mixer trucks	107	70
	Compressors and pneumatic hand tools	118	17
	Mini asphalt pavers (and tipper lorries)	109	70
	Deadweight / vibrating rollers	111	50
Bridges and Civil Structures	Vibrating plate compactors	110	25
	Lorry loader crane HIAB	104	25
	Telehandlers	107	50
	360 Tracked excavators	110	70
	Concrete mixer trucks	107	70
	Concrete pumps	108	50
	Concrete compaction plant	96	25
	Dump trucks	108	50
	Deadweight / vibrating rollers	111	50
	Compressors and pneumatic hand tools	118	17
	Mobile all terrain cranes	101	50
	Mobile elevating work platforms - vehicle mounted or self-propelled	104	25
	Continuous flight augering (CFA) / bored piles	108	50
Road Restraints	Lorry loader crane HIAB	104	25
	Telehandler	107	50

**NOT PROTECTIVELY MARKED**

Activity	Key noise sources	Sound power level, dB, L <sub>WA</sub>	On time, %
	Concrete mixer trucks	107	70
	Mini excavator	100	50
	180 Backhoe loaders	107	50
Fencing	Lorry loader crane HIAB	104	25
	Telehandler	107	50
	180 Backhoe loaders	107	50
	Concrete mixer trucks	107	70
Traffic signs	Lorry loader crane HIAB	104	25
	Telehandler	107	50
	180 Backhoe loaders	107	50
	Mini excavator	100	50
	Mobile levating work platforms - Vehicle Mounted or Self-propelled	104	25
Road Lighting	Lorry loader crane HIAB	104	25
	Mini excavator	100	50
	Small crane / backhoe	104	25
	Telehandler	107	50
	Mobile elevating work platforms - Vehicle mounted or self-propelled	104	25

## 1.2 Construction noise calculations

1.2.1 The construction of the Sizewell Link Road has been divided into two phases comprising preparatory works and main phase construction work. Each phase would contain the following activities:

- Preparatory works: site set up and clearance, including trees and hedgerows, the erection of temporary fencing on land required for construction and the creation of alternative access arrangements and rights of way, setting up of the temporary contractor compounds including security, welfare facilities, and temporary utilities; and
- Construction Works: earthworks, road construction and surfacing, construction of bridges and civil structures (including piling), utility and drainage installation, construction of pavements, kerbs, footways and paved areas, installation of permanent fencing, road signs and marking, and road lighting, permanent connections to existing road networks, and landscaping.

- 1.2.2 **Tables 1.2 and 1.3** show details of the calculations carried out to predict noise levels during construction for the preparation and main construction phases, respectively.
- 1.2.3 The predictions in **Table 1.2** show sound levels forecast to arise during the use of chainsaws/chipper and chainsaw for and during vegetation clearance and during the formation of the Temporary Contractors compound using plant such as bulldozer and roller.
- 1.2.4 The main phase construction work has been calculated at a number of stages (Earthworks, Drainage, Pavements, Kerbs and Bridge/Culvert) occurring simultaneously at locations along the route. In order to present a realistic scenario, the Earthworks are modelled as having reached (and passed) the bridge or culvert nearest to the receptors assessed. The Drainage works are modelled as trailing Earthworks by 800m with Pavements 800m behind the Drainage.
- 1.2.5 This model places all works within a segment 1.6km long which is relatively short and proximate to receptors. The operational segment is modelled at several sections along the SLR route so as to be relevant to receptors in the vicinity of those works. Over a period shorter than the 24 months, each receptor location would experience each stage, that is, Earth-moving, Drainage and Pavements. Of these three advancing tasks, Pavements are expected to produce the higher sound emission. This is illustrated for each receptor, and is the value subsequently assessed.
- 1.2.6 A range of sound levels are derived, the lower end of which represents a longer-term combination of all operations contained within a 1.6 km long segment advancing west to east. The upper end value is assessed, it being for Pavement works at the closest point on the SLR.
- 1.2.7 In **Table 1.2**, calculations are shown for each receptor during vegetation clearance and construction of the four temporary constructors compounds (TCCs) for the preparatory works phase. Construction of the contractors compounds is labelled for each in **Table 1.2** as:

**Table 1.2: Labels**

Location	Label
Adjacent to the A12	TCC A12
Adjacent to the rail line	TCC rail
Adjacent to B1122 link	TCC B1122
Adjacent to Pretty Road	TCC Pretty Road

1.2.8 Predictions have been made of levels during the construction of contractor compounds both when construction works are close to the boundary (at the edge of the TCC) with the receptors and during more typical, longer term construction work (nominally in the centre of working area). These are labelled as “edge” and “centre” in the **Table 1.2**, respectively.

1.2.9 Calculations are shown for each receptor for three sets of activities plus the construction of two bridges and a culvert of during the main construction phase. These are labelled in **Table 1.3** as:

**Table 1.3: Labels**

Activities	Label
During pavement / kerbs works	Pavement
During construction of drainage	Drain
Earthworks	Earth
During railway bridge construction	Rail bridge
During construction of the culvert	Culvert
During construction of Pretty Road Bridge	PR Bridge

1.2.10 Predictions have been made of levels during the noisiest of these activities (pavements) both when construction works are at their closest to the boundary with the receptors and during more typical, longer term construction work. These are labelled as “closest” in **Table 1.3**.

1.2.11 The chainage referred to **Table 1.3** refers to distance in metres from the western junction.

1.2.12 Notations. ‘r’ is radial distance, source to receptor.  $A_r$  is attenuation for radial distance.  $A_g$ ,  $A_a$ ,  $A_{met}$ ,  $A_b$  are attenuation for ground; air; meteorological effects and barrier, respectively.

1.2.13 The source values in **Tables 1.2 and 1.3** have been derived from activities, source levels and on times shown in **Table 1.1** above. For simplicity, these have been expressed as a single activity level at a reference distance of 40m.

**Table 1.4: Construction noise calculations: Preparation phase**

Calculation steps for each receptor	Activities locations		
	Vegetation clearance	TCC A12	TCC A12
Receptor 30 Rosetta			
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m, dB	70/74	74	70
r, typical, m	100m	100m	20m

Calculation steps for each receptor	Activities locations		
$A_r$	8	8	+6
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	2	
Predicted $L_{Aeq,t}$	60/64	64	76
Mitigation, for example:			Short term
• Barrier			5
• Create 20m min stand-off			6
• $L_{Aeq,t}$			65
Receptor 1 Fir Tree farm	Vegetation clearance	TCC A12	TCC A12
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	100m	120m	40m
$A_r$	8	10	0
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	2	
$L_{Aeq,t}$	60/64	62	70
Mitigation, for example:			Short term
• Barrier at TCC perimeter			5
• $L_{Aeq,t}$			65
Receptor 29 Kelsale Lodge Cottages	Vegetation clearance	TCC A12	TCC A12
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	50m	150m	40m
$A_r$		11	0
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	2	
$L_{Aeq,t}$	68/72	61	70
Mitigation, for example:	short term		Short term
• Barrier at TCC perimeter			5
• Shield chipper	0/3		
• $L_{Aeq,t}$	68/69		65

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Calculation steps for each receptor	Activities locations		
<b>Receptor 32 Red House Barn and Mile Hill Barn</b>	<b>Vegetation clearance</b>	<b>TCC A12</b>	<b>TCC A12</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	170m	170m	40m
$A_r$	13	13	0
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	2	
$L_{Aeq,t}$	55/59	59	70
Mitigation, for example:			Short term
• Barrier at TCC perimeter			5
• $L_{Aeq,t}$			65
<b>Receptor 31 Laurel Farm</b>	<b>Vegetation clearance</b>	<b>TCC A12</b>	<b>TCC A12</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m, dB	70/74	74	70
r, typical, m	250m	250m	120m
$A_r$	16	16	10
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	3	2
$L_{Aeq,t}$	51/55	55	58
<b>Receptor 2 Buskie Farm</b>	<b>Vegetation clearance</b>	<b>TCC A12</b>	<b>TCC A12</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	300m	400m	250m
$A_r$	18	20	16
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	3	3
$L_{Aeq,t}$	49/53	51	51
<b>Receptor 33 Rookery Farm</b>	<b>Vegetation clearance</b>	<b>TCC rail</b>	<b>TCC rail</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	400m	400m	300m

Calculation steps for each receptor	Activities locations		
$A_r$	20	20	18
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	3	3
$L_{Aeq,t}$	57/61	61	49
Receptor 34 Keepers Cottage	Vegetation clearance	TCC rail	TCC rail
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m, dB	70/74	74	70
r, typical, m	350m	350m	500m
$A_r$	19	19	22
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	3	4
$L_{Aeq,t}$	48/52	52	44
Receptor 3 Fordley Hall	Vegetation clearance	TCC B1122	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	300m	900m	800m
$A_r$	18	27	26
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	7	6
$L_{Aeq,t}$	49/53	40	38
Receptor 41 Moor Buildings	Vegetation clearance	TCC B1122	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	350m	>500m	350m
$A_r$	19	22	19
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	4	3
$L_{Aeq,t}$	48/52	48	48
Receptor 40 Tollgate	Vegetation clearance	TCC B1122	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70

**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations		
r, typical	>400m	>350m	400m
A <sub>r</sub>	20	19	20
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	3	3	3
L <sub>Aeq,t</sub>	47/51	48	47
Receptor 4 Norwood House	Vegetation clearance	TCC B11222	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	70/74	74	70
r, typical, m	400m	>450m	450m
A <sub>r</sub>	20	21	21
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	3	4	4
L <sub>Aeq,t</sub>	47/51	49	45
Receptor 27 B1122 Middleton Moor	Vegetation clearance	TCC B1122	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: L <sub>Aeq,t</sub> @ 40m	70/74	74	70
r, typical	350m	>700m	700m
A <sub>r</sub>	19	25	25
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	3	6	6
L <sub>Aeq,t</sub>	48/52	43	39
Receptor 5 Cross Roads	Vegetation clearance	TCC B1122	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: L <sub>Aeq,t</sub> @ 40m	70/74	74	70
r, typical	150m	>800m	800m
A <sub>r</sub>	11	26	26
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	2	6	6
L <sub>Aeq,t</sub>	57/61	42	38
Receptor 19 Oakfield House	Vegetation clearance	TCC B1122	TCC B1122
Operations	Saw/chip	Centre	Edge



Calculation steps for each receptor	Activities locations		
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	50m	>400m	400m
$A_r$	2	20	20
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$		3	3
$L_{Aeq,t}$	68/72	51	47
Mitigation, for example:	Short term		
• Shield chipper or locate 60m distance	3		
• $L_{Aeq,t}$	65/69		
Receptor 6 Garden Farm House	Vegetation clearance	TCC B11222	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m, dB	70/74	74	70
r, typical, m	150m	1100m	1000m
$A_r$	11	29	28
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	8	7
$L_{Aeq,t}$	57/61	37	35
Receptor 7 Mill Street	Vegetation clearance	TCC B1122	TCC B1122
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	300m	1200m	1200m
$A_r$	18	30	30
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	9	9
$L_{Aeq,t}$	49/53	35	31
Receptor 12 Trust Farm	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	150m	1100m	1100m
$A_r$	11	29	29
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	8	8
$L_{Aeq,t}$	57/61	37	33

Calculation steps for each receptor	Activities locations		
<b>Receptor 8 Yoxford Road</b>	<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	200m	1200m	1200m
$A_r$	14	30	
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	2	9	
$L_{Aeq,t}$	54/58	35	
<b>Receptor 9 Hill Farm</b>	<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m, dB	70/74	74	70
r, typical, m	200m	1000m	1000m
$A_r$	14	28	30
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	2	7	9
$L_{Aeq,t}$	54/58	39	31
<b>Receptor 10 Valley Farm</b>	<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	100m	900m	900m
$A_r$	8	27	28
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	2	7	7
$L_{Aeq,t}$	60/64	40	35
<b>Receptor 22 Annesons Corner</b>	<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	130m	900m	900m
$A_r$	10	27	27
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	2	7	7

**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations		
L <sub>Aeq,t</sub>	58/62	40	36
<b>Receptor 11 Annesons Cottage</b>	<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations	Saw/chip	Centre	Edge
Source Value: L <sub>Aeq,t</sub> @ 40m	70/74	74	70
r, typical	30m	800m	800m
A <sub>r</sub>	+2	26	26
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> or A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	0	6	6
L <sub>Aeq,t</sub>	72/76	42	38
Mitigation, for example:	Short term		
• Use only 1 chainsaw, not 2	3/0		
• Locate chipper 80m away or fully shield	0/6		
• L <sub>Aeq,t</sub>	69/70		
<b>Receptor 21 Coronation Cottages</b>	<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations	Saw/chip	Centre	Edge
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	70/74	74	70
r, typical, m	50m	800m	800m
A <sub>r</sub>	2	26	26
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> or A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	0	6	6
L <sub>Aeq,t</sub>	68/72	42	38
Mitigation, for example:	Short term		
• Shield chipper or locate 60m distance	0/3		
• L <sub>Aeq,t</sub>	68/69		
<b>Receptor 20 Hawthorn Cottages</b>	<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations	Saw/chip	Centre	Edge
Source Value: L <sub>Aeq,t</sub> @ 40m	70/74	74	70
r, typical	30m	700m	700m
A <sub>r</sub>	+2	25	25
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> or A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	0	6	6
L <sub>Aeq,t</sub>	72/76	43	39

**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations		
Mitigation, for example:	Short term		
• Use only 1 chainsaw, not 2	3/0		
• Locate chipper 80m away or fully shield	0/6		
• $L_{Aeq,t}$	69/70		
Receptor 36 Hawthorn Farm	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	400m	700m	700m
$A_r$	20	25	25
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	6	6
$L_{Aeq,t}$	47/51	43	39
Receptor 13 Dovehouse Farm	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	350m	350m	300m
$A_r$	19	19	18
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	3	3
$L_{Aeq,t}$	48/52	52	49
Receptor 14 Theberton Hall	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	250m	>400m	400m
$A_r$	16	20	20
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	3	3
$L_{Aeq,t}$	51/55	51	47
Receptor 15 Church Farm Cottages	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge

Calculation steps for each receptor	Activities locations		
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	300m	600m	600m
$A_r$	18	24	24
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	5	5
$L_{Aeq,t}$	49/53	55	41
Receptor 28 B1122 Theberton	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m, dB	70/74	74	70
r, typical, m	350m	>800m	800m
$A_r$	19	26	26
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	3	6	6
$L_{Aeq,t}$	48/52	42	38
Receptor 16 Doughty Wylie Crescent	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	150m	>800m	>800m
$A_r$	11	26	26
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	6	6
$L_{Aeq,t}$	57/61	42	38
Receptor 17 Theberton Grange	Vegetation clearance	TCC Pretty Road	TCC Pretty Road
Operations	Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m	70/74	74	70
r, typical	150m	>1000m	>1000m
$A_r$	11	28	28
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$	2	7	7
$L_{Aeq,t}$	57/61	39	35

Calculation steps for each receptor		Activities locations		
<b>Receptor 38 South of Theberton Grange</b>		<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations		Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m		70/74	74	70
r, typical		300m	1200m	1200m
$A_r$		18	30	30
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$		3	9	9
$L_{Aeq,t}$		49/53	35	31
<b>Receptor 18 Theberton House</b>		<b>Vegetation clearance</b>	<b>TCC Pretty Road</b>	<b>TCC Pretty Road</b>
Operations		Saw/chip	Centre	Edge
Source Value: $L_{Aeq,t}$ @ 40m, dB		70/74	74	70
r, typical, m		250m	1200m	1200m
$A_r$		16	30	30
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$		3	9	9
$L_{Aeq,t}$		51/55	35	31

**Table 1.5: Construction noise calculations: Main construction phase**

Calculation steps for each receptor		Activities locations				
<b>Receptor 30 Rosetta</b>		<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Rail Bridge</b>	<b>Closest</b>
Distance from western end of SLR:		0	800	1600	1500	0
Source Value: $L_{Aeq,t}$ @ 40m, dB		79	72	74	76	Pavement
r, typical, m		150m	800m	1600m m	1400m	150m
$A_r$		11	26	32	31	11
$A_g + A_a + A_{met}$ or $A_b + A_a + A_{met}$		2	6	10	10	2
$L_{Aeq,t}$		66	40	32	35	66
$L_{Aeq,t}$ Sum of 4 operations = 66dB						
<b>Receptor 1 Fir Tree farm</b>		<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Rail Bridge</b>	<b>Closest</b>
Distance from western end of SLR:		0	800	1600	1500	250
Source Value: $L_{Aeq,t}$ @ 40m, dB		79	72	74	76	Pavement

Calculation steps for each receptor	Activities locations				
r, typical, m	250m	500m	1100m	1200m	100m
A <sub>r</sub>	16	22	29	30	8
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	3	4	8	9	2
L <sub>Aeq,t</sub>	60	46	37	37	69
L <sub>Aeq,t</sub> Sum of 4 operations = 60dB					
Receptor 29 Kelsale Lodge Cottages	Pavement	Drain	Earth	Rail Bridge	Closest
Distance from western end of SLR:	0	800	1600	1500	0
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	79	72	74	76	Pavement
r, typical, m	150m	700m	1300m	1400m	150m
A <sub>r</sub>	11	25	30	31	11
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	2	6	9	10	2
L <sub>Aeq,t</sub>	66	41	38	35	66
L <sub>Aeq,t</sub> Sum of 4 operations = 66dB					
Receptor 32 Red House Farm / Mile Hill Barn	Pavement	Drain	Earth	Rail Bridge	Closest
Distance from western end of SLR:	0	800	1600	1500	0
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	79	72	74	76	Pavement
r, typical, m	250m	900m	1600m	1500m	250m
A <sub>r</sub>	16	27	32	31	16
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	3	7	10	10	3
L <sub>Aeq,t</sub>	60	38	32	35	60
L <sub>Aeq,t</sub> Sum of 4 operations = 60dB					
Receptor 31 Laurel Farm	Pavement	Drain	Earth	Rail Bridge	Closest
Distance from western end of SLR:	0	800	1600	1500	0
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	79	72	74	76	Pavement
r, typical, m	300m	900m	1600m	1500m	300m
A <sub>r</sub>	18	27	32	31	18
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	3	7	10	10	3
L <sub>Aeq,t</sub>	58	38	32	35	60

Calculation steps for each receptor		Activities locations			
L <sub>Aeq,t</sub> Sum of 4 operations = 58dB					
<b>Receptor 2 Buskie Farm</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Rail Bridge</b>	<b>Closest</b>
Distance from western end of SLR:	0	800	1600	1500	0
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	79	72	74	76	Pavement
r, typical, m	450m	500m	1100m	1100m	250m
A <sub>r</sub>	21	26	29	29	16
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	4	4	8	8	3
L <sub>Aeq,t</sub>	54	42	36	39	60
L <sub>Aeq,t</sub> Sum of 4 operations = 54dB					
<b>Receptor 33 Rookery Farm</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Rail Bridge</b>	<b>Closest</b>
Distance from western end of SLR:	0	800	1600	1500	0
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1100m	450m	600m	500m	300m
A <sub>r</sub>	29	21	24	22	18
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	8	4	5	4	3
L <sub>Aeq,t</sub>	42	47	45	50	58
L <sub>Aeq,t</sub> Sum of 4 operations = 53dB					
<b>Receptor 34 Keepers Cottage</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Rail Bridge</b>	<b>Closest</b>
Distance from western end of SLR:	800	1600	2400	1500	1500
Source Value: L <sub>Aeq,t</sub> @ 40m, dB	79	72	74	76	Pavement
r, typical, m	800m	350m	900m	350m	350m
A <sub>r</sub>	26	19	27	19	19
A <sub>g</sub> + A <sub>a</sub> + A <sub>met</sub> OR A <sub>b</sub> + A <sub>a</sub> + A <sub>met</sub>	5	3	7	3	3
L <sub>Aeq,t</sub>	47	50	40	54	57
L <sub>Aeq,t</sub> Sum of 4 operations = 56dB					



**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations				
<b>Receptor 3 Fordley Hall</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Rail Bridge</b>	<b>Closest</b>
Distance from western end of SLR:	800	1600	2400	1500	2200
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1300m	700m	400m	800m	350m
$A_r$	30	25	20	26	19
$A_g + A_a + A_{met}$ Or $A_b + A_a + A_{met}$	9	6	3	6	3
$L_{Aeq,t}$	40	41	51	44	57
$L_{Aeq,t}$ Sum of 4 operations = 52dB					
<b>Receptor 41 Moor Buildings</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	1600	2400	3200	2900	B1122link
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1400m	1000m	1200m	1000m	350m
$A_r$	31	28	30	28	19
$A_g + A_a + A_{met}$ Or $A_b + A_a + A_{met}$	10	7	9	7	3
$L_{Aeq,t}$	38	37	35	41	57
$L_{Aeq,t}$ Sum of 4 operations = 44dB					
<b>Receptor 40 Tollgate</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	2400	3200	4000	2900	B1122link
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	500m	700m	1400m	500m	350m
$A_r$	22	25	31	22	19
$A_g + A_a + A_{met}$ Or $A_b + A_a + A_{met}$	4	6	10	4	3
$L_{Aeq,t}$	53	41	33	50	57
$L_{Aeq,t}$ Sum of 4 operations = 55dB					

**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations				
<b>Receptor 4 Norwood House</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	2400	3200	4000	2900	B1122link
Distance from western end of SLR:	79	72	74	76	Pavement
Source Value: $L_{Aeq,t}$ @ 40m, dB	500m	700m	1400m	500m	350m
r, typical, m	22	25	31	22	19
$A_r$	4	6	10	4	3
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	53	41	33	50	57
$L_{Aeq,t}$ Sum of 4 operations = 55dB					
<b>Receptor 27 B1122 Middleton Moor</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	2400	3200	4000	2900	2900
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	700m	500m	1200m	500m	450m
$A_r$	25	22	30	22	21
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	6	4	9	4	4
$L_{Aeq,t}$	48	46	35	50	54
$L_{Aeq,t}$ Sum of 4 operations = 53dB					
<b>Receptor 5 Cross Roads</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	2400	3200	4000	2900	3000
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	600m	250m	1000m	200m	200m
$A_r$	24	16	28	14	14
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	5	3	7	2	2
$L_{Aeq,t}$	50	53	39	60	63
$L_{Aeq,t}$ Sum of 4 operations = 61dB					
<b>Receptor 19 Oakfield House</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	2400	3200	4000	2900	2800

**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations				
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	350m	400m	1100m	150m	100m
$A_r$	19	20	29	11	8
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	3	3	8	2	2
$L_{Aeq,t}$	57	49	37	63	69
$L_{Aeq,t}$ Sum of 4 operations = 64dB					
Receptor 6 Garden Farm House	Pavement	Drain	Earth	Culvert	Closest
Distance from western end of SLR:	2400	3200	4000	3150	3200
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	800m	150m	700m	150m	150m
$A_r$	26	11	25	11	11
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	6	2	6	2	2
$L_{Aeq,t}$	47	59	43	63	66
$L_{Aeq,t}$ Sum of 4 operations = 65dB					
Receptor 7 Mill Street	Pavement	Drain	Earth	Culvert	Closest
Distance from western end of SLR:	2400	3200	4000	3150	3400
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1000m	300m	600m	300m	250m
$A_r$	28	18	24	18	16
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	3	5	3	3
$L_{Aeq,t}$	44	51	45	55	60
$L_{Aeq,t}$ Sum of 4 operations = 57dB					
Receptor 12 Trust Farm	Pavement	Drain	Earth	Culvert	Closest
Distance from western end of SLR:	2400	3200	4000	3150	3600
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1100m	350m	450m	400m	200m
$A_r$	29	19	21	20	14

Calculation steps for each receptor		Activities locations				
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	8	3	4	3	2	
$L_{Aeq,t}$	42	50	49	53	63	
$L_{Aeq,t}$ Sum of 4 operations = 56dB						
Receptor 8 Yoxford Road	Pavement	Drain	Earth	Culvert	Closest	
Distance from western end of SLR:	3200	4000	4800	3150	3700	
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement	
r, typical, m	600m	250m	1000m	600m	200m	
$A_r$	24	16	28	24	14	
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	5	3	7	5	2	
$L_{Aeq,t}$	50	53	39	50	63	
$L_{Aeq,t}$ Sum of 4 operations = 56dB						
Receptor 9 Hill Farm	Pavement	Drain	Earth	Culvert	Closest	
Distance from western end of SLR:	3200	4000	4800	3150	4000	
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement	
r, typical, m	700m	200m	800m	800m	200m	
$A_r$	25	14	26	26	14	
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	6	2	6	6	2	
$L_{Aeq,t}$	48	56	42	44	63	
$L_{Aeq,t}$ Sum of 4 operations = 57dB						
Receptor 10 Valley Farm	Pavement	Drain	Earth	Culvert	Closest	
Distance from western end of SLR:	3200	4000	4800	3150	4200	
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement	
r, typical, m	1000m	200m	700m	1000m	100m	
$A_r$	28	14	25	28	8	
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	2	6	7	2	
$L_{Aeq,t}$	44	56	43	41	69	
$L_{Aeq,t}$ Sum of 4 operations = 57dB						
Mitigation						

**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations				
<b>Receptor 22 Annesons Corner</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	3200	4000	4800	3150	4200
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1000m	200m	700m	1000m	100m
$A_r$	28	14	25	28	8
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	2	6	7	2
$L_{Aeq,t}$	44	56	43	41	69
$L_{Aeq,t}$ Sum of 4 operations = 57dB					
<b>Receptor 11 Annesons Cottage</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	3200	4000	4800	3150	4200
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	900m	200m	700m	1000m	70m
$A_r$	27	14	25	28	5
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	2	6	7	1
$L_{Aeq,t}$	45	56	43	41	73
$L_{Aeq,t}$ Sum of 4 operations = 57dB					
<b>Receptor 21 Coronation Cottages</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	3200	4000	4800	3150	4200
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	900m	200m	700m	1000m	70m
$A_r$	27	14	25	28	5
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	2	6	7	1
$L_{Aeq,t}$	45	56	43	41	73
$L_{Aeq,t}$ Sum of 4 operations = 57dB					
<b>Receptor 20 Hawthorn Cottages</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>Culvert</b>	<b>Closest</b>
Distance from western end of SLR:	3200	4000	4800	3150	4100

**NOT PROTECTIVELY MARKED**

Calculation steps for each receptor	Activities locations				
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	900m	150m	500m	900m	100m
$A_r$	27	11	22	27	8
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	2	4	7	2
$L_{Aeq,t}$	45	59	48	42	69
$L_{Aeq,t}$ Sum of 4 operations = 60dB					
Receptor 36 Hawthorn Farm	Pavement	Drain	Earth	Culvert	Closest
Distance from western end of SLR:	3200	4000	4800	3150	4100
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	800m	400m	600m	900m	400m
$A_r$	26	20	24	27	20
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	6	3	5	7	3
$L_{Aeq,t}$	47	49	45	42	56
$L_{Aeq,t}$ Sum of 4 operations = 52dB					
Receptor 13 Dovehouse Farm	Pavement	Drain	Earth	PR Bridge	Closest
Distance from western end of SLR:	4000	4800	5600	5150	4800
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	600m	350m	800m	400m	350m
$A_r$	24	19	26	20	19
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	5	3	6	3	3
$L_{Aeq,t}$	50	50	42	53	57
$L_{Aeq,t}$ Sum of 4 operations = 56dB					
Receptor 14 Theberton Hall	Pavement	Drain	Earth	PR Bridge	Closest
Distance from western end of SLR:	4000	4800	5600	5150	4800
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	900m	200m	600m	350m	200m
$A_r$	27	14	24	19	14

Calculation steps for each receptor		Activities locations				
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	2	5	3	2	
$L_{Aeq,t}$	45	56	45	54	63	
$L_{Aeq,t}$ Sum of 4 operations = 59dB						
Receptor 15 Church Farm Cottages	Pavement	Drain	Earth	PR Bridge	Closest	
Distance from western end of SLR:	4800	5600	6400	5150	5700	
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement	
r, typical, m	600m	300m	600m	450m	300m	
$A_r$	24	18	24	21	18	
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	5	3	5	4	3	
$L_{Aeq,t}$	50	51	45	51	58	
$L_{Aeq,t}$ Sum of 4 operations = 56dB						
Receptor 28 Theberton	Pavement	Drain	Earth	PR Bridge	Closest	
Distance from western end of SLR:	5200	6000	6800	5150	6000	
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement	
r, typical, m	700m	300m	900m	700m	300m	
$A_r$	25	18	27	25	18	
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	6	3	7	6	3	
$L_{Aeq,t}$	48	51	40	45	58	
$L_{Aeq,t}$ Sum of 4 operations = 54dB						
Receptor 16 Doughty Wylie Crescent	Pavement	Drain	Earth	PR Bridge	Closest	
Distance from western end of SLR:	5200	6000	6800	5150	6100	
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement	
r, typical, m	700m	200m	700m	700m	150m	
$A_r$	25	14	25	25	11	
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	6	2	6	6	2	
$L_{Aeq,t}$	48	56	43	45	66	
$L_{Aeq,t}$ Sum of 4 operations = 57dB						

Calculation steps for each receptor	Activities locations				
<b>Receptor 17 Theberton Grange</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>PR Bridge</b>	<b>Closest</b>
Distance from western end of SLR:	5200	6000	6800	5150	6200
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	900m	200m	400m	1000m	200m
$A_r$	27	14	20	28	14
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	2	3	7	2
$L_{Aeq,t}$	45	56	51	41	63
$L_{Aeq,t}$ Sum of 4 operations = 58dB					
<b>Receptor 38 South of Theberton Grange</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>PR Bridge</b>	<b>Closest</b>
Distance from western end of SLR:	5200	6000	6800	5150	6500
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1000m	400m	350m	1100m	300m
$A_r$	28	20	19	29	18
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	7	3	3	8	3
$L_{Aeq,t}$	44	49	52	39	58
$L_{Aeq,t}$ Sum of 4 operations = 54dB					
<b>Receptor 18 Theberton House</b>	<b>Pavement</b>	<b>Drain</b>	<b>Earth</b>	<b>PR Bridge</b>	<b>Closest</b>
Distance from western end of SLR:	5200	6000	6800	5150	6800
Source Value: $L_{Aeq,t}$ @ 40m, dB	79	72	74	76	Pavement
r, typical, m	1500m	800m	200m	1600m	200m
$A_r$	31	26	14	32	14
$A_g + A_a + A_{met}$ OR $A_b + A_a + A_{met}$	10	6	2	10	2
$L_{Aeq,t}$	38	40	58	34	63
$L_{Aeq,t}$ Sum of 4 operations = 58dB					