

Appendix 12.3

Traffic Noise (CRTN) Calculations and Predictions

CRTN Calculation Worksheets for Construction - Year 2014

Year 2014 Without Project							Year 2014 With Project								
ATC Site 1	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 1	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	5421	3.0	71	66.4	0.4	66.8	18hr AAWT	5435	3.1	71	66.5	0.4	66.9	0.0	No Change
7-8AM	375	3.4	71	67.9	0.5	68.4	7-8AM	378	3.6	71	68.0	0.5	68.5	0.1	Negligible
8-9AM	447	3.4	71	68.7	0.5	69.2	8-9AM	448	3.6	71	68.7	0.5	69.3	0.1	Negligible
5-6PM	507	1.6	71	69.2	0.0	69.3	5-6PM	507	1.7	71	69.3	0.1	69.3	0.0	No Change
6-7PM	374	1.7	71	67.9	0.0	68.0	6-7PM	378	1.9	71	68.0	0.1	68.1	0.1	Negligible
ATC Site 2	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 2	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	126	2.3	38	50.1	-3.0	47.1	18hr AAWT	150	1.9	38	50.9	-3.2	47.7	0.6	Negligible
7-8AM	3	6.7	38	47.1	-1.4	45.7	7-8AM	15	1.4	38	54.0	-3.4	50.6	4.9	Moderate
8-9AM	9	0.0	38	51.7	-4.1	47.6	8-9AM	9	0.0	38	51.7	-4.1	47.6	0.0	No Change
5-6PM	11	0.0	38	52.6	-4.1	48.5	5-6PM	11	0.0	38	52.6	-4.1	48.5	0.0	No Change
6-7PM	10	2.0	38	52.3	-3.1	49.2	6-7PM	22	0.9	38	55.7	-3.6	52.0	2.9	Minor
ATC Site 3	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 3	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	10927	3.2	60	69.5	-0.6	68.9	18hr AAWT	11041	3.6	60	69.5	-0.5	69.0	0.2	Negligible
7-8AM	674	3.3	60	70.5	-0.6	69.9	7-8AM	711	3.8	60	70.7	-0.4	70.3	0.4	Negligible
8-9AM	864	4.4	60	71.6	-0.3	71.3	8-9AM	869	4.9	60	71.6	-0.1	71.4	0.2	Negligible
5-6PM	933	1.8	60	71.9	-1.0	70.9	5-6PM	938	2.3	60	71.9	-0.9	71.1	0.2	Negligible
6-7PM	764	2.1	60	71.0	-0.9	70.1	6-7PM	801	2.6	60	71.2	-0.8	70.5	0.4	Negligible
ATC Site 4	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 4	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	190	2.5	45	51.9	-2.3	49.6	18hr AAWT	214	4.1	45	52.4	-1.7	50.7	1.1	Minor
7-8AM	7	5.9	44	50.7	-1.2	49.5	7-8AM	17	4.7	44	54.6	-1.6	53.0	3.6	Moderate
8-9AM	15	0.0	45	54.0	-3.4	50.6	8-9AM	16	2.6	45	54.1	-2.3	51.8	1.2	Minor
5-6PM	16	2.6	45	54.3	-2.3	52.0	5-6PM	17	4.9	45	54.4	-1.5	52.9	0.9	Minor
6-7PM	16	1.3	45	54.1	-2.8	51.4	6-7PM	26	2.3	45	56.3	-2.4	54.0	2.6	Minor

Year 2014 Without Project							Year 2014 With Project								
ATC Site 5	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 5	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	16246	3.3	60	71.2	-0.6	70.6	18hr AAWT	16374	3.6	60	71.2	-0.5	70.7	0.1	Negligible
7-8AM	1080	4.3	60	72.5	-0.4	72.2	7-8AM	1122	4.7	60	72.7	-0.3	72.4	0.3	Negligible
8-9AM	1288	4.3	59	73.3	-0.4	72.9	8-9AM	1294	4.7	59	73.3	-0.3	73.0	0.1	Negligible
5-6PM	1423	2.0	59	73.7	-1.0	72.7	5-6PM	1428	2.4	59	73.7	-0.9	72.8	0.1	Negligible
6-7PM	1093	2.5	59	72.6	-0.9	71.7	6-7PM	1136	2.9	59	72.8	-0.8	72.0	0.3	Negligible
ATC Site 6	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 6	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	27197	3.8	68	73.4	0.3	73.8	18hr AAWT	27277	3.9	68	73.5	0.4	73.8	0.0	No Change
7-8AM	1973	4.2	69	75.2	0.5	75.7	7-8AM	1997	4.4	69	75.2	0.6	75.8	0.1	Negligible
8-9AM	2164	4.1	68	75.6	0.4	75.9	8-9AM	2168	4.3	68	75.6	0.4	76.0	0.1	Negligible
5-6PM	2055	2.9	68	75.3	0.1	75.4	5-6PM	2060	3.1	68	75.3	0.1	75.5	0.1	Negligible
6-7PM	1858	2.1	68	74.9	-0.1	74.8	6-7PM	1882	2.3	68	74.9	-0.1	74.9	0.1	Negligible
ATC Site 7	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 7	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	17831	2.5	75	71.6	0.7	72.3	18hr AAWT	17945	2.7	75	71.6	0.7	72.4	0.1	Negligible
7-8AM	688	4.5	74	70.6	1.1	71.7	7-8AM	729	4.8	74	70.8	1.2	72.0	0.3	Negligible
8-9AM	1073	3.4	75	72.5	0.9	73.4	8-9AM	1077	3.7	75	72.5	1.0	73.5	0.1	Negligible
5-6PM	1400	1.2	75	73.7	0.3	74.0	5-6PM	1404	1.5	75	73.7	0.4	74.1	0.1	Negligible
6-7PM	954	1.7	75	72.0	0.5	72.5	6-7PM	995	2.0	75	72.2	0.6	72.7	0.3	Negligible
ATC Site 8	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 8	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	1951	1.3	45	62.0	-2.8	59.2	18hr AAWT	1953	1.4	45	62.0	-2.7	59.3	0.0	No Change
7-8AM	77	0.8	45	61.1	-3.0	58.1	7-8AM	77	1.1	45	61.1	-2.9	58.2	0.1	Negligible
8-9AM	102	1.6	45	62.3	-2.6	59.7	8-9AM	102	1.8	45	62.3	-2.5	59.7	0.1	Negligible
5-6PM	138	0.6	45	63.6	-3.1	60.5	5-6PM	138	0.7	45	63.6	-3.0	60.6	0.1	Negligible
6-7PM	129	1.0	45	63.3	-2.9	60.4	6-7PM	129	1.1	45	63.3	-2.8	60.5	0.1	Negligible
ATC Site 9	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 9	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr	25605	6.9	55	73.2	-0.1	73.1	18hr	25645	7.0	55	73.2	-0.1	73.1	0.0	No Change

Year 2014 Without Project							Year 2014 With Project								
AAWT							AAWT								
7-8AM	2087	6.0	55	75.4	-0.3	75.1	7-8AM	2094	6.1	55	75.4	-0.3	75.1	0.0	No Change
8-9AM	1919	7.1	55	75.0	0.0	75.0	8-9AM	1922	7.3	55	75.0	0.0	75.0	0.0	No Change
5-6PM	2160	5.9	55	75.5	-0.3	75.2	5-6PM	2163	6.0	55	75.6	-0.3	75.2	0.0	No Change
6-7PM	1724	5.7	55	74.6	-0.4	74.2	6-7PM	1731	5.9	55	74.6	-0.3	74.2	0.1	Negligible
ATC Site 10	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 10	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	10911	4.3	66	69.5	0.3	69.8	18hr AAWT	10925	4.4	66	69.5	0.3	69.8	0.0	No Change
7-8AM	744	3.9	66	70.9	0.2	71.1	7-8AM	746	4.1	66	70.9	0.2	71.2	0.1	Negligible
8-9AM	847	4.3	66	71.5	0.3	71.8	8-9AM	849	4.4	66	71.5	0.3	71.8	0.0	No Change
5-6PM	915	2.1	66	71.8	-0.3	71.5	5-6PM	916	2.2	66	71.8	-0.3	71.6	0.0	No Change
6-7PM	681	2.1	66	70.5	-0.3	70.2	6-7PM	683	2.3	66	70.5	-0.2	70.3	0.1	Negligible
ATC Site 11	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 11	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	22910	4.7	72	72.7	0.9	73.6	18hr AAWT	22936	4.8	72	72.7	0.9	73.6	0.0	No Change
7-8AM	1955	4.8	72	75.1	0.9	76.0	7-8AM	1960	4.9	72	75.1	0.9	76.1	0.0	No Change
8-9AM	1775	5.1	72	74.7	1.0	75.7	8-9AM	1777	5.3	72	74.7	1.0	75.7	0.0	No Change
5-6PM	1927	2.3	72	75.0	0.3	75.4	5-6PM	1929	2.4	72	75.1	0.3	75.4	0.0	No Change
6-7PM	1527	1.8	72	74.0	0.2	74.2	6-7PM	1532	1.9	72	74.1	0.2	74.3	0.0	No Change

CRTN Calculation Worksheets for Operation – Year 2024

Year 2024 Without Project							Year 2024 With Project								
ATC Site 1	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 1	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	5670	3.0	71	66.6	0.4	67.0	18hr AAWT	5671	3.0	71	66.6	0.4	67.0	0.0	No Change
7-8AM	392	3.4	71	68.1	0.5	68.6	7-8AM	391	3.4	71	68.1	0.5	68.6	0.0	No Change
8-9AM	467	3.4	71	68.9	0.5	69.4	8-9AM	467	3.4	71	68.9	0.5	69.4	0.0	No Change
5-6PM	530	1.6	71	69.4	0.0	69.5	5-6PM	530	1.6	71	69.4	0.0	69.5	0.0	No Change
6-7PM	391	1.7	71	68.1	0.0	68.2	6-7PM	391	1.7	71	68.1	0.0	68.2	0.0	No Change
ATC Site 2	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 2	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	132	2.3	38	50.3	-3.0	47.3	18hr AAWT	131	2.3	38	50.3	-3.0	47.3	0.0	No Change
7-8AM	3	6.7	38	47.3	-1.4	45.9	7-8AM	3	6.7	38	47.3	-1.4	45.9	0.0	No Change
8-9AM	9	0.0	38	51.9	-4.1	47.7	8-9AM	9	0.0	38	51.9	-4.1	47.7	0.0	No Change
5-6PM	11	0.0	38	52.8	-4.1	48.7	5-6PM	11	0.0	38	52.8	-4.1	48.7	0.0	No Change
6-7PM	11	2.0	38	52.5	-3.1	49.4	6-7PM	10	2.0	38	52.5	-3.1	49.4	0.0	No Change
ATC Site 3	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 3	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	11428	3.2	61	69.7	-0.5	69.1	18hr AAWT	11440	3.2	61	69.7	-0.5	69.2	0.0	No Change
7-8AM	706	3.3	61	70.7	-0.5	70.2	7-8AM	705	3.3	61	70.7	-0.5	70.2	0.0	No Change
8-9AM	904	4.4	61	71.8	-0.2	71.6	8-9AM	905	4.4	61	71.8	-0.2	71.6	0.0	No Change
5-6PM	977	1.8	61	72.1	-0.9	71.2	5-6PM	977	1.8	61	72.1	-0.9	71.2	0.0	No Change
6-7PM	799	2.1	61	71.2	-0.8	70.4	6-7PM	798	2.1	61	71.2	-0.8	70.4	0.0	No Change
ATC Site 4	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 4	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	198	2.5	47	52.1	-2.1	49.9	18hr AAWT	199	2.5	47	52.1	-2.1	50.0	0.0	No Change
7-8AM	7	5.9	47	50.9	-1.1	49.8	7-8AM	7	5.9	47	50.9	-1.1	49.8	0.0	No Change
8-9AM	16	0.0	47	54.2	-3.2	51.0	8-9AM	15	0.0	47	54.2	-3.2	51.1	0.0	No Change
5-6PM	17	2.6	47	54.5	-2.1	52.4	5-6PM	17	2.5	47	54.5	-2.1	52.4	0.0	No Change
6-7PM	16	1.3	47	54.3	-2.6	51.7	6-7PM	16	1.3	47	54.3	-2.6	51.7	0.0	No Change
ATC Site 5	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 5	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	16990	3.3	60	71.4	-0.6	70.8	18hr AAWT	17003	3.3	60	71.4	-0.6	70.8	0.0	No Change

Year 2024 Without Project							Year 2024 With Project								
7-8AM	1130	4.3	60	72.7	-0.3	72.4	7-8AM	1129	4.3	60	72.7	-0.3	72.4	0.0	No Change
8-9AM	1348	4.3	60	73.5	-0.4	73.1	8-9AM	1349	4.3	60	73.5	-0.4	73.1	0.0	No Change
5-6PM	1489	2.0	60	73.9	-1.0	72.9	5-6PM	1490	2.0	60	73.9	-1.0	72.9	0.0	No Change
6-7PM	1144	2.5	60	72.8	-0.9	71.9	6-7PM	1144	2.5	60	72.8	-0.9	71.9	0.0	No Change
ATC Site 6	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 6	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	28443	3.8	68	73.6	0.3	73.9	18hr AAWT	28444	3.8	68	73.6	0.3	73.9	0.0	No Change
7-8AM	2065	4.2	68	75.3	0.4	75.8	7-8AM	2064	4.2	68	75.3	0.4	75.8	0.0	No Change
8-9AM	2264	4.1	68	75.7	0.4	76.1	8-9AM	2264	4.1	68	75.8	0.4	76.1	0.0	No Change
5-6PM	2151	2.9	68	75.5	0.1	75.6	5-6PM	2150	2.9	68	75.5	0.1	75.6	0.0	No Change
6-7PM	1944	2.1	68	75.1	-0.1	74.9	6-7PM	1944	2.1	68	75.1	-0.1	74.9	0.0	No Change
ATC Site 7	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 7	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	18648	2.5	77	71.8	0.8	72.7	18hr AAWT	18650	2.5	77	71.8	0.8	72.7	0.0	No Change
7-8AM	720	4.5	77	70.8	1.3	72.1	7-8AM	720	4.5	77	70.8	1.3	72.1	0.0	No Change
8-9AM	1122	3.4	77	72.7	1.1	73.8	8-9AM	1122	3.4	77	72.7	1.1	73.8	0.0	No Change
5-6PM	1465	1.2	77	73.9	0.5	74.4	5-6PM	1465	1.2	77	73.9	0.5	74.4	0.0	No Change
6-7PM	998	1.7	77	72.2	0.7	72.8	6-7PM	998	1.7	77	72.2	0.7	72.8	0.0	No Change
ATC Site 8	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 8	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	2040	1.3	46	62.2	-2.7	59.4	18hr AAWT	2040	1.3	46	62.2	-2.7	59.4	0.0	No Change
7-8AM	80	0.8	46	61.3	-2.9	58.3	7-8AM	80	0.8	46	61.3	-2.9	58.3	0.0	No Change
8-9AM	107	1.6	46	62.5	-2.6	59.9	8-9AM	107	1.6	46	62.5	-2.6	59.9	0.0	No Change
5-6PM	145	0.6	46	63.8	-3.0	60.8	5-6PM	145	0.6	46	63.8	-3.0	60.8	0.0	No Change
6-7PM	135	1.0	46	63.5	-2.9	60.6	6-7PM	135	1.0	46	63.5	-2.9	60.6	0.0	No Change
ATC Site 9	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 9	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	26778	6.9	58	73.4	0.1	73.5	18hr AAWT	26784	6.9	58	73.4	0.1	73.5	0.0	No Change
7-8AM	2184	6.0	58	75.6	-0.1	75.5	7-8AM	2184	6.0	58	75.6	-0.1	75.5	0.0	No Change
8-9AM	2008	7.1	58	75.2	0.2	75.4	8-9AM	2009	7.1	58	75.2	0.2	75.4	0.0	No Change
5-6PM	2260	5.9	58	75.7	-0.1	75.6	5-6PM	2260	5.9	58	75.7	-0.1	75.6	0.0	No Change
6-7PM	1804	5.7	58	74.8	-0.2	74.6	6-7PM	1804	5.7	58	74.8	-0.2	74.6	0.0	No Change

Year 2024 Without Project							Year 2024 With Project								
ATC Site 10	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 10	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	11411	4.3	63	69.7	-0.1	69.6	18hr AAWT	11411	4.3	63	69.7	-0.1	69.6	0.0	No Change
7-8AM	778	3.9	63	71.1	-0.2	71.0	7-8AM	778	3.9	63	71.1	-0.2	71.0	0.0	No Change
8-9AM	887	4.3	63	71.7	-0.1	71.6	8-9AM	887	4.3	63	71.7	-0.1	71.6	0.0	No Change
5-6PM	958	2.1	63	72.0	-0.7	71.3	5-6PM	958	2.1	63	72.0	-0.7	71.3	0.0	No Change
6-7PM	713	2.1	63	70.7	-0.7	70.1	6-7PM	713	2.1	63	70.7	-0.7	70.1	0.0	No Change
ATC Site 11	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	ATC Site 11	TOTAL VEHICLES	% HGVS	MEAN SPEED	BNL	% HGV and Speed Correction	LA10	CHANGE	MAGNITUDE OF CHANGE
18hr AAWT	23959	4.7	71	72.9	0.8	73.7	18hr AAWT	23962	4.7	71	72.9	0.8	73.7	0.0	No Change
7-8AM	2046	4.8	71	75.3	0.8	76.1	7-8AM	2046	4.8	71	75.3	0.8	76.1	0.0	No Change
8-9AM	1858	5.1	71	74.9	0.9	75.8	8-9AM	1858	5.1	71	74.9	0.9	75.8	0.0	No Change
5-6PM	2016	2.3	71	75.2	0.2	75.4	5-6PM	2016	2.3	71	75.2	0.2	75.4	0.0	No Change
6-7PM	1598	1.8	71	74.2	0.1	74.3	6-7PM	1598	1.8	71	74.2	0.1	74.3	0.0	No Change

Link ID	Location(s)
ATC 1	A588 Head Dyke Lane, between its junctions with Lambs Lane and Green Dicks Ln
ATC 2	Back Lane, between its junctions with Cemetery Lane and Lindel Lane
ATC 3	A588 Hall Gate Lane, between its junctions with Cemetery Lane and Moss House Ln
ATC 4	High Gate Lane, mid way between its junctions with Staynall Lane and Grange Lane
ATC 5	A588 Shard Road, north of the signalised junction with the A585 Mains Lane
ATC 6	A585 Amounderness Way, mid way between its junctions with the B5412 and New Road
ATC 7	A585 A'ness Way, between its junctions with Copse Road and Herring Arm Road
ATC 8	West Way, between its junctions with The Strand and Rossall Gate
ATC 9	A585 Mains Ln, between its junctions with A588 Shard Rd and A585 G'stang New Rd
ATC 10	A586 G'tang Rd, between its junctions with A585 F'wood Rd and Larbreck Gardens
ATC 11	A585 Fleetwood Rd, between its junctions with Grange Rd and B5269 Mile Road