



Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

Volume 3

Appendix 24.3 - Pedestrian Delay Assessment

August 2022

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Table A24.3.1: Pedestrian and Cycle Delay (SEP or DEP in isolation)

Link	Link Description	Speed	Survey Type	Year	2025 AADT Total Vehicle Reference Flows	2020 Surveyed Peak Hour (8am to 9am) Flows	Peak Hour (8am to 9am) Factor	Covid Factor	TEMpro Growth Rates (2020-2025)	2025 Peak Hour Flows (Including Covid Factor and TEMpro Growth)	*Pedestrian and Cycle Delay (seconds) without Construction Flows	2025 Peak Hour Total Vehicle Construction Flows	2025 Peak Hour Total Vehicle Reference Flows and Construction	*Pedestrian and Cycle Delay (seconds) with Construction	Change in Delay (seconds)
1	A1078 Low Road / A148 Grinnon Road	60	DR - AADT	2018	17,776		n/a			902	2.97	n/a	n/a	n/a	n/a
2	A148 from A149 to A1005	30-60	DR - AADT	2018	6,658		n/a			439	2.14	n/a	n/a	n/a	n/a
3	A148 from A1005 to A1067	30-60	DR - AADT	2018	16,241		n/a			824	4.35	n/a	n/a	n/a	n/a
4	A148 from A1067 to B1149	30-60	DR - AADT	2018	9,330		n/a			483	2.33	n/a	n/a	n/a	n/a
5	A148 from B1149 to Hamstead Road	30-40	DR - AADT	2018	14,272		n/a			724	3.65	n/a	n/a	n/a	n/a
6	A148 from Hamstead Road to Bridge Road	30-60	DR - AADT	2018	14,272		n/a			724	3.65	n/a	n/a	n/a	n/a
7	Bridge Road	30-60	DR - AADT	2018	14,272		n/a			724	3.65	n/a	n/a	n/a	n/a
8	The Street	24.2	DEP & SEP ATC	2020	837	48	17.23	1.14	1.09695	60	1.28	n/a	n/a	n/a	n/a
9	A12 from B1149 to A47	30-60	DR - AADT	2018	3,941		n/a			184	1.43	n/a	n/a	n/a	n/a
10	Holgate Hill / Holt Road	22.3	DEP & SEP ATC	2020	1,273	43	29.60	1.14	1.09695	54	1.27	n/a	n/a	n/a	n/a
11	A1078 from Westwood to Moleysdown Road	30-60	DR - AADT	2018	5,033		n/a			252	2.59	n/a	n/a	n/a	n/a
12	Station Road / Ashby Hill Lane / Gypsey's Lane	30-60	DEP & SEP ATC	2020	1,008	42	13.99	1.14	1.09695	52	1.27	n/a	n/a	n/a	n/a
13	A148 from Gypsey's Lane to B1436	30-60	DR - AADT	2018	15,102		n/a			766	3.94	n/a	n/a	n/a	n/a
14	A148	30-60	DR - AADT	2018	15,102		n/a			766	3.94	n/a	n/a	n/a	n/a
15	A149 North Walsham	30-60	DR - AADT	2018	9,241		n/a			469	2.26	n/a	n/a	n/a	n/a
16	A149 from B1159 to Station Road	30-60	DR - AADT	2018	9,241		n/a			469	2.26	n/a	n/a	n/a	n/a
17	A149 from Station Road to Yarmouth Road to B1141	30-60	DR - AADT	2018	21,098		n/a			1065	6.44	n/a	n/a	n/a	n/a
18	A149 from B1141 to A47	30-60	DR - AADT	2018	36,313		n/a			1837	10.68	n/a	n/a	n/a	n/a
19	A12 from Williams Adams Way to B1385	40-50	DR - AADT	2018	27,224		n/a			1383	9.95	n/a	n/a	n/a	n/a
20	A12 from B1385 to A1117	40-50	DR - AADT	2018	16,985		n/a			849	5.49	n/a	n/a	n/a	n/a
21	A12 from A1117 to Mill Road	30-60	DR - AADT	2018	10,109		n/a			513	2.46	n/a	n/a	n/a	n/a
22	A12 from Mill Road to B1384 / A1145 from B1384 to A146	30-60	DR - AADT	2018	11,761		n/a			596	2.88	n/a	n/a	n/a	n/a
23	A146 from A47 to A1145	40	DR - AADT	2018	19,960		n/a			1013	5.92	n/a	n/a	n/a	n/a
24	A47 from A1064 to A12	30-60	DR - AADT	2018	23,220		n/a			1178	7.58	n/a	n/a	n/a	n/a
25	A140 from Cowston Road to A1270	50-60	DR - AADT	2018	24,179		n/a			1200	7.96	n/a	n/a	n/a	n/a
26	A1270 from Drayton Lane to A150	50-60	DR - AADT	2018	11,965		n/a			602	2.91	n/a	n/a	n/a	n/a
27	Boston Road	44.3	DEP & SEP ATC	2020	750	48	15.62	0.98	1.09695	52	1.27	n/a	n/a	n/a	n/a
28	B1149 from B1149 to B1140	60	DR - AADT	2018	4,366		n/a			221	1.48	n/a	n/a	n/a	n/a
29	B1149 from Spink's Lane to B1145	60	DR - AADT	2018	5,264		n/a			267	1.59	n/a	n/a	n/a	n/a
30	B1149 from B1145 to Spink's Lane	60	DR - AADT	2018	5,264		n/a			267	1.59	n/a	n/a	n/a	n/a
31	Unnamed Road	39.5	DEP & SEP ATC	2020	1,101	70	15.73	1.17	1.09695	90	1.30	n/a	n/a	n/a	n/a
32	B1149 from A149 to B1334	60	DR - AADT	2017	4,776		n/a			242	1.53	n/a	n/a	n/a	n/a
33	Hempenett Road / The Street	21.5	DEP & SEP ATC	2020	1,836	125	14.60	1.17	1.09695	143	1.68	n/a	n/a	n/a	n/a
34	Church Lane / Unnamed Road	23.7	DEP & SEP ATC	2020	31	0	0.00	1.17	1.09695	0	1.26	n/a	n/a	n/a	n/a
35	Unnamed Road	38.7	DEP & SEP ATC	2020	1,078	73	14.73	1.17	1.09695	94	1.30	n/a	n/a	n/a	n/a
36	Church Street / Cherry Tree Road	24.2	DEP & SEP ATC	2020	252	20	12.65	1.17	1.09695	26	1.26	n/a	n/a	n/a	n/a
37	Rumstead Road	24.2	DEP & SEP ATC	2020	252	20	12.65	1.17	1.09695	26	1.26	n/a	n/a	n/a	n/a
38	Rougham Road	38	DEP & SEP ATC	2020	2,436	20	121.78	1.17	1.09695	26	1.26	n/a	n/a	n/a	n/a
39	A1067 from A148 to Mart Hill Road	30-60	DR - AADT	2018	8,068		n/a			409	2.03	n/a	n/a	n/a	n/a
40	Ringland Lane / Merton Lane	35.2	DEP & SEP ATC	2020	144	32	10.74	0.98	1.09695	91	1.27	n/a	n/a	n/a	n/a
41	Church Street / Church Farm Close / Woodforde Close / Hoeningham Road / Paddy's Lane	23.8	DEP & SEP ATC	2020	2,643	188	14.06	0.98	1.09695	202	1.45	n/a	n/a	n/a	n/a
42	The Roadway / Unnamed Road	23.5	DEP & SEP ATC	2020	30	2	15.03	0.98	1.09695	2	1.26	n/a	n/a	n/a	n/a
43	Wood Lane	23.8	DEP & SEP ATC	2020	2,643	188	14.06	0.98	1.09695	202	1.45	n/a	n/a	n/a	n/a
44	Tarleton Road	36.1	DR - AADT	2018	620		n/a			11	1.26	n/a	n/a	n/a	n/a
45	Unnamed Road / Denham Road	36.1	DEP & SEP ATC	2020	796	59	13.50	1.16	1.09695	35	1.27	n/a	n/a	n/a	n/a
46	Bow Hill	36.2	DEP & SEP ATC	2020	796	59	13.50	1.16	1.09695	35	1.29	n/a	n/a	n/a	n/a
47	A148 from Bridge Road to Gypsey's Lane	60	DR - AADT	2018	14,272		n/a			724	3.65	n/a	n/a	n/a	n/a
48	Church Road / Bow Hill	36.2	DEP & SEP ATC	2020	796	59	13.50	1.16	1.09695	35	1.29	n/a	n/a	n/a	n/a
49	Unnamed Road	34.4	DEP & SEP ATC	2020	1,088	97	11.23	1.16	1.09695	124	1.33	n/a	n/a	n/a	n/a
50	Clapp's Street	34.4	DEP & SEP ATC	2020	1,088	97	11.23	1.16	1.09695	124	1.33	n/a	n/a	n/a	n/a
51	Unnamed Road	34.4	DEP & SEP ATC	2020	1,088	97	11.23	1.16	1.09695	124	1.33	n/a	n/a	n/a	n/a
52	B1108 west of Bow Hill	60	DR - AADT	2018	5,962		n/a			302	1.68	n/a	n/a	n/a	n/a
53	Merton Road / High Green	41.8	DEP & SEP ATC	2020	796	66	12.08	1.16	1.09695	84	1.39	n/a	n/a	n/a	n/a
54	Ketteringham Lane	34.7	DEP & SEP ATC	2020	647	52	12.45	1.16	1.09695	66	1.28	n/a	n/a	n/a	n/a
55	Unnamed Road	34.4	DEP & SEP ATC	2020	1,070	77	13.56	1.16	1.09695	98	1.36	n/a	n/a	n/a	n/a
56	Stanton Lane	41	DEP & SEP ATC	2020	1,886	104	18.13	1.16	1.09695	132	1.34	n/a	n/a	n/a	n/a
57	Hethenett Road	41	DEP & SEP ATC	2020	1,886	104	18.13	1.16	1.09695	132	1.34	n/a	n/a	n/a	n/a
58	B1113 south of the A47	30-60	DR - AADT	2017	9,314		n/a			472	2.28	n/a	n/a	n/a	n/a
59	Aylsham Road	30	DR - AADT	2018	5,264		n/a			267	1.59	n/a	n/a	n/a	n/a
60	Maney	60	DR - AADT	2018	315		n/a			17	1.26	n/a	n/a	n/a	n/a
61	A47 from A140 to A146	70	DR - AADT	2018	10,209		n/a			518	2.48	n/a	n/a	n/a	n/a
62	The Street	60	DR - AADT	2008	2,051		n/a			104	1.31	n/a	n/a	n/a	n/a
63	Boston Road / Foston Way	40	DR - AADT	2018	1,020		n/a			52	1.27	n/a	n/a	n/a	n/a
64	Unnamed Road, east of its junction with Grove Lane	40	DR - AADT	2018	1,020		n/a			52	1.27	n/a	n/a	n/a	n/a
65	Bus Lane / The Street	30-60	DR - AADT	2008	301		n/a			15	1.26	n/a	n/a	n/a	n/a
66	Unnamed Road	30-60	DR - AADT	2008	301		n/a			15	1.26	n/a	n/a	n/a	n/a
67	A1062 Holway Road	50	DR - AADT	2019	9,352		n/a			474	2.29	n/a	n/a	n/a	n/a
68	DR Fakenham Road	60	DR - AADT	2019	1,689		n/a			86	1.29	n/a	n/a	n/a	n/a
69	Breck Road / Weston Green Road	29.1	DEP & SEP ATC	2020	67	3	22.19	0.98	1.09695	3	1.26	n/a	n/a	n/a	n/a
70	Winton Road	29.1	DEP & SEP ATC	2020	67	3	22.19	0.98	1.09695	3	1.26	n/a	n/a	n/a	n/a
71	Unnamed Road	29.1	DEP & SEP ATC	2020	67	3	22.19	0.98	1.09695	3	1.26	n/a	n/a	n/a	n/a
72	Barstock Lane / Landlew Lane	60	DEP & SEP ATC	2020	796	59	13.50	1.16	1.09695	40	1.27	n/a	n/a	n/a	n/a

*Pedestrian delay (seconds) = 1.26 * 4.56 * traffic flow per hour past the crossing point

Min PH Factor	0.91
Max PH Factor	121.78
Avg PH Factor	19.72

- Key**
 AADT: Annual Average Daily Traffic
 ATC: Automatic Traffic Count
 DEP: Dudgeon Extension Projects
 DR: Department for Transport
 HPS: Horses Project Three
 NV: Norfolk Vanguard
 SEP: Sheringham Extension Projects

Table A24.3.2: Pedestrian and Cycle Delay (SEP and DEP)

Link	Link Description	Speed	Survey Type	Year	2025 AADT Total Vehicle Reference Flows	2020 Surveyed Peak Hour (8am to 9am) Flows	Peak Hour (8am to 9am) Factor	Covid Factor	TEMpro Growth Rates (2020-2025)	2025 Peak Hour Flows (Including Covid Factor and TEMpro Growth)	*Pedestrian and Cycle Delay (seconds) without Construction Flows	2025 Peak Hour Total Vehicle Construction Flows	2025 Peak Hour Total Vehicle Reference Flows and Construction	*Pedestrian and Cycle Delay (seconds) with Construction	Change in Delay (seconds)
1	A1078 Low Road / A148 Grimston Road	60	DR - AADT	2018	17,776		n/a			902	2.97	n/a	902	2.97	
2	A148 from A149 to A1005	30-60	DR - AADT	2018	6,658		n/a			439	2.14	n/a	439	2.14	
3	A148 from A1005 to A1067	30-60	DR - AADT	2018	16,241		n/a			824	4.35	n/a	824	4.35	
4	A148 from A1067 to B1149	30-60	DR - AADT	2018	9,330		n/a			483	2.33	n/a	483	2.33	
5	A148 from B1149 to Hamstead Road	30-40	DR - AADT	2018	14,272		n/a			724	3.65	n/a	724	3.65	
6	A148 from Hamstead Road to Bridge Road	30-60	DR - AADT	2018	14,272		n/a			724	3.65	n/a	724	3.65	
7	Bridge Road	30-60	DR - AADT	2018	14,272		n/a			724	3.65	n/a	724	3.65	
8	The Street	24.2	DEP & SEP ATC	2020	837	48	17.23	1.14	1.09695	60	1.28	n/a	60	1.28	
9	The Street	20.60	DR - AADT	2018	3,941		n/a			184	1.43	n/a	184	1.43	
10	Hogate Hill / HoR Road	22.3	DEP & SEP ATC	2020	1,273	43	29.60	1.14	1.09695	54	1.27	n/a	54	1.27	
11	A149 from Fallowley to Wetherby Road	30-60	DR - AADT	2018	27,224		n/a			1384	6.86	n/a	1384	6.86	
12	Station Road / Sheep Hill Lane / Gypsey's Lane	30-60	DR - AADT	2018	1,008	42	23.95	1.14	1.09695	57	1.27	n/a	57	1.27	
13	A148 from Gypsey's Lane to B1436	30-60	DR - AADT	2018	15,102		n/a			766	3.84	n/a	766	3.84	
14	A149	30-60	DR - AADT	2018	22,008		n/a			1085	5.29	n/a	1085	5.29	
15	A149 - North Walsham	30-60	DR - AADT	2018	9,241		n/a			469	2.36	n/a	469	2.36	
16	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
17	A149 from Station Road to B1141	30-60	DR - AADT	2018	22,008		n/a			1085	5.29	n/a	1085	5.29	
18	A149 from B1141 to A47	30	DR - AADT	2018	36,217		n/a			1837	16.64	n/a	1837	16.64	
19	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
20	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
21	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
22	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
23	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
24	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
25	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
26	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
27	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
28	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
29	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
30	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
31	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
32	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
33	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
34	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
35	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
36	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
37	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
38	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
39	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
40	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
41	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
42	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
43	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
44	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
45	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
46	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
47	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
48	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
49	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
50	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
51	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
52	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
53	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
54	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
55	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
56	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
57	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
58	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
59	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
60	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
61	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
62	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
63	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
64	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
65	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
66	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
67	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
68	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
69	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
70	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
71	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
72	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
73	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
74	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
75	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
76	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
77	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
78	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
79	A12 from Mill Road to B1384 / A145 from B1384 to A146	30-60	DR - AADT	2018	13,761		n/a			696	3.46	n/a	696	3.46	
80	A146 from A47 to A145	30-60	DR - AADT	2018	19,940		n/a			1013	5.02	n/a	1013	5.02	
81	A149 from Station Road to A1064	30-60	DR - AADT	2018	11,558		n/a			585	2.83	n/a	585	2.83	
82	A12 from Mill Road to B1														