

# Hampshire Water Transfer and Water Recycling Project

## Environmental Statement – Appendix 6.2 Air quality assessment traffic data

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from  
**Southern  
Water** 

The Southern Water logo consists of three stylized, wavy blue lines of varying lengths, positioned to the right of the text 'Southern Water'.



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# 1 Air quality assessment traffic data

## 1.1 Introduction

- 1.1.1 The derivation of the traffic flows is detailed in Environmental Statement (ES) Chapter 18 Traffic and transport, Volume I (Document reference 6.1, DCO Volume 6). The traffic data used for the Proposed Development are provided in Table 1-1.
- 1.1.2 As detailed in Table 1-1, traffic data has been factored to account for traffic growth between 2019 and 2023, by applying background growth factors that account for regional traffic growth from the Trip End Model Presentation Program (TEMPro), which takes into account traffic growth from committed developments (e.g. residential developments and employment).
- 1.1.3 The increases in traffic flows on the road network associated with the construction phase of the Proposed Development are screened using the Institute of Air Quality Management and Environmental Protection UK (IAQM and EPUK) planning guidance [1] traffic screening criteria.
- 1.1.4 Upon undertaking a traffic screening assessment, it was revealed that only one road link Harts Farm Way (Link 52) is predicted to experience increases in vehicle numbers and Heavy Good Vehicles (HGVs) in exceedance of the human receptor screening criteria, as detailed in Table 1-2.

**Table 1-1 Air quality traffic data for the Proposed Development**

Link ID	Link Name	2023 Baseline		2031 Baseline		2031 Committed Development	2031 Baseline + Committed Development		2031 Baseline + Committed Development + Construction		
		Annual Average Daily Traffic (AADT)	% HGV	AADT	% HGV	AADT	AADT	% HGV	AADT	% HGV	
1	B2150 (N)	No traffic data collected for these links following consultation with HCC based on minimal development impact. These links have therefore been excluded from the traffic model.				6,157	N/A				
2	Purbrook Way (1)					6,044					
3	Middle Park Way (W)					760					
4	B2149 (N)					2,106					
5	Middle Park Way (E)	5,619	15%	5,989	15%	47	6,036	15%	6,036	15%	
6	B2149 (S)	24,186	8%	25,782	8%	1,093	26,875	8%	26,877	8%	
7	B2149 (M)	9,845	14%	10,494	14%	806	11,301	14%	11,301	14%	
8	B2177 (1)	13,013	10%	13,872	10%	688	14,560	10%	14,686	10%	
9	B2149 (W)	No traffic data collected for these links following consultation with HCC based on minimal development impact. These links have therefore been excluded from the traffic model.				2,576	N/A				
10	Barncroft Way					2,179					
11	Hooks Farm Way					0					
12	Brookside Road					180					
13	Bidbury Lane					0					
14	Mill Lane					0					
15	West Street					1,051					

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Link ID	Link Name	2023 Baseline		2031 Baseline		2031 Committed Development	2031 Baseline + Committed Development		2031 Baseline + Committed Development + Construction	
		Annual Average Daily Traffic (AADT)	% HGV	AADT	% HGV	AADT	AADT	% HGV	AADT	% HGV
16	Meyrick Road					481				
17	Harts Farm Way (1)	9,219	12%	9,828	12%	360	10,188	12%	10,938	13%
18	Gillman Road	No traffic data collected for these links following consultation with HCC based on minimal development impact. These links have therefore been excluded from the traffic model.				0	N/A			
19	B2177 (2)	12,712	10%	13,552	10%	2,247	15,799	10%	16,016	10%
20	A3 (S)	19,352	9%	20,610	9%	2,766	23,375	9%	23,523	9%
21	A27	35,824	3%	39,442	3%	0	39,442	3%	39,591	3%
22	Crookhorn Lane	No traffic data collected for these links following consultation with HCC based on minimal development impact. These links have therefore been excluded from the traffic model.				1,549	N/A			
23	College Road					3,868				
24	Purbrook Way (2)					4,139				
25	A2030					0				
26	B2177 (3)	9,800	10%	10,446	10%	1,460	11,907	10%	11,989	10%
27	Beverley Grove	No traffic data collected for these links following consultation with HCC based on minimal development impact. These links have therefore been excluded from the traffic model.				0	N/A			
28	Rectory Avenue					0				
29	New Down Lane	116	28%	124	28%	0	124	28%	316	13%

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Link ID	Link Name	2023 Baseline		2031 Baseline		2031 Committed Development	2031 Baseline + Committed Development		2031 Baseline + Committed Development + Construction		
		Annual Average Daily Traffic (AADT)	% HGV	AADT	% HGV	AADT	AADT	% HGV	AADT	% HGV	
30	A3 (N)	No traffic data collected for these links following consultation with HCC based on minimal development impact. These links have therefore been excluded from the traffic model.				2,695	N/A				
31	B2177 (4)	6,135	13%	6,539	13%	2,334	8,873	13%	8,930	13%	
32	Boarhunt Road	3,425	23%	3,651	23%	803	4,454	23%	4,566	23%	
33	A32 (S)	20,780	11%	22,131	11%	-9,414	12,717	11%	13,054	10%	
34	A32 (C)	16,796	9%	17,888	9%	-2,335	15,553	9%	15,761	9%	
35	A334 (E)	13,713	11%	14,605	11%	226	14,831	11%	15,091	11%	
36	A334 (C)	8,073	11%	8,597	11%	91	8,688	11%	8,754	11%	
37	Titchfield Lane	5,475	11%	5,836	11%	31	5,867	11%	5,957	10%	
38	Blind Lane	1,281	14%	1,366	14%	0	1,366	14%	1,373	14%	
39	B2177 (5)	9,178	12%	9,783	12%	38	9,822	12%	9,956	11%	
40	Shirell Heath High St	2,654	13%	2,829	13%	0	2,829	13%	2,933	13%	
41	B3035	6,678	10%	7,119	10%	57	7,176	10%	7,326	10%	
42	Curdridge Lane	3,150	14%	3,358	14%	0	3,358	14%	3,396	14%	
43	B3037 (W)	20,580	7%	21,939	7%	3,873	2,5811	7%	25,908	7%	

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Link ID	Link Name	2023 Baseline		2031 Baseline		2031 Committed Development	2031 Baseline + Committed Development		2031 Baseline + Committed Development + Construction	
		Annual Average Daily Traffic (AADT)	% HGV	AADT	% HGV	AADT	AADT	% HGV	AADT	% HGV
44	B3354 (S)	9,882	13%	10,534	13%	2,318	12,852	13%	13,043	13%
45	B3037	5,131	11%	5,470	11%	4,029	9,499	11%	9,606	11%
46	B2177 (6)	10,103	24%	10,769	24%	195	10,964	24%	11,053	24%
47	Winters Hill	4,009	15%	4,274	15%	0	4,274	15%	4,308	15%
48	B3335 (N)	13,843	13%	14,757	13%	2,193	16,950	13%	17,087	13%
49	B3354 (N)	16,814	10%	17,924	10%	2,200	20,124	10%	20,224	10%
50	B2177 (7)	6,914	24%	7,370	24%	38	7,408	24%	7,470	24%
51	B2177 (9)	14,863	10%	15,844	10%	202	16,046	10%	16,104	10%
52	Otterbourne Hill (N)	11,811	13%	12,590	13%	23	12,613	13%	12,671	13%
53	Kiln Lane	2,658	10%	2,833	10%	0	2,833	10%	2,799	10%
54	Church Lane	7,961	10%	8,486	10%	8	8,494	10%	8,510	10%
55	Bishopstoke Lane	1,834	8%	1,956	8%	0	1,956	8%	1,880	8%
56	B3335 (S)	8,386	10%	8,939	10%	8	8,947	10%	9,242	10%
57	A335	18,042	10%	19,214	10%	247	19,461	10%	19,734	10%
58	Waterworks Road	No traffic data collected for these links following consultation with HCC based on				0	N/A			
59	Sparrowgrove					0				

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		Annual Average Daily Traffic (AADT)	% HGV	AADT	% HGV	AADT	AADT	% HGV	AADT	% HGV	
60	Tanfield Lane	minimal development impact. These links have therefore been excluded from the traffic model.				0					
61	Scivier's Lane	562	19%	599	19%	0	599	19%	599	19%	
62	Brockhampton Road	No traffic data collected for these links following consultation with HCC based on minimal development impact. These links have therefore been excluded from the traffic model.				368	N/A				
63	Harts Farm Way (2)	8,571	11%	9,136	11%	360	9497	11%	9533	11%	
64	Otterbourne Road	7,853	10%	8,372	10%	23	8,394	10%	8,430	10%	
65	Hockley Link	16,780	9%	17,887	9%	1993	19,880	9%	19,915	9%	
66	Southmoor Lane	2,996	19%	3,194	19%	10	3,203	19%	3,239	19%	
67	Otterbourne Hill (S)	9,645	8%	10,281	8%	23	10,304	8%	10,537	8%	
68	B2177 (8)	7,356	9%	7,842	9%	1460	9,302	9%	9,385	9%	
69	A334 (W)	16,523	10%	17,597	10%	139	17,737	10%	17,951	10%	
70	Winchester Road Link	20,534	8%	21889	8%	23	21912	8%	22,144	7%	
71	M3 J10-11	124,000	9%	136,524	9%	2435	138,959	9%	139,600	9%	
72	M3 J11-12	115,908	9%	127,615	9%	2341	129,956	9%	130,597	9%	
73	M3 J11 EB On Slip	7,872	6%	8,667	6%	22	8,689	6%	8,776	6%	

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Link ID	Link Name	2023 Baseline		2031 Baseline		2031 Committed Development	2031 Baseline + Committed Development		2031 Baseline + Committed Development + Construction	
		Annual Average Daily Traffic (AADT)	% HGV	AADT	% HGV	AADT	AADT	% HGV	AADT	% HGV
74	M3 J11 WB Off Slip	6,699	11%	7,376	11%	22	7,398	11%	7,485	11%
75	M3 J12 NB On Slip	5,641	8%	6,210	8%	40	6,250	8%	6,299	8%
76	M3 J12 NB Off Slip	5,274	7%	5,807	7%	40	5,847	7%	5,941	7%
77	M3 J12 SB On Slip	6,772	4%	7,455	4%	40	7,495	4%	7,589	4%
78	M3 J12 SB Off Slip	5,882	9%	6,476	9%	40	6,516	9%	6,566	9%
79	West Street	2,534	2%	2,534	2%	0	2,534	2%	2,534	2%
101	HR1	0	40.00%	0	40.00%	0	0	40.00%	10	40.00%
102	HR2	0	18.00%	0	18.00%	0	0	18.00%	40	18.00%
103	HR3	0	6.00%	0	6.00%	0	0	6.00%	16	6.00%
104	HR4	0	6.00%	0	6.00%	0	0	6.00%	16	6.00%
105	HR5	0	100.00%	0	100.00%	0	0	100.00%	2	100.00%
106	HR6	0	8.00%	0	8.00%	0	0	8.00%	13	8.00%
107	HR7	0	25.00%	0	25.00%	0	0	25.00%	12	25.00%
108	HR8	0	3.00%	0	3.00%	0	0	3.00%	128	3.00%
109	HR9	0	5.00%	0	5.00%	0	0	5.00%	37	5.00%
110	HR10	0	0.00%	0	0.00%	0	0	0.00%	12	0.00%

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		Annual Average Daily Traffic (AADT)	% HGV	AADT	% HGV	AADT	AADT	% HGV	AADT	% HGV
111	HR11	0	6.00%	0	6.00%	0	0	6.00%	34	6.00%
112	HR12	0	8.00%	0	8.00%	0	0	8.00%	64	8.00%
113	HR13	0	24.00%	0	24.00%	0	0	24.00%	34	24.00%
114	HR14	0	10.00%	0	10.00%	0	0	10.00%	80	10.00%
115	HR15	0	12.00%	0	12.00%	0	0	12.00%	17	12.00%
116	HR16	0	6.00%	0	6.00%	0	0	6.00%	31	6.00%
117	HR17	0	100.00%	0	100.00%	0	0	100.00%	2	100.00%
118	HR18	0	100.00%	0	100.00%	0	0	100.00%	19	100.00%
119	HR19	0	3.00%	0	3.00%	0	0	3.00%	75	3.00%
120	HR20	0	0.00%	0	0.00%	0	0	0.00%	12	0.00%

**Table 1-2 Human receptor screening – affected road links during construction.**

Boxes shaded in blue show traffic flows (light good vehicles and/or heavy goods vehicles) that exceed the Institute of Air Quality Management and Environmental Protection UK (2017) criteria.

Link ID	Road Name	Peak construction development trips	
		HDVs (AADT)	LDVs (AADT)
1	B2150 (N)	0	0
2	Purbrook Way (1)	0	0
3	Middle Park Way (W)	0	0
4	B2149 (N)	0	0
5	Middle Park Way (E)	0	0
6	B2149 (S)	0	1
7	B2149 (M)	0	0
8	B2177 (1)	0	126
9	B2149 (W)	0	0
10	Barncroft Way	0	0
11	Hooks Farm Way	0	0
12	Brookside Road	0	5
13	Bidbury Lane	0	5
14	Mill Lane	0	5
15	West Street	1	55
16	Meyrick Road	1	55
17	Harts Farm Way (1)	159	591
18	Gillman Road	0	2
19	B2177 (2)	13	204
20	A3 (S)	7	141
21	A27	7	142
22	Crookhorn Lane	9	7
23	College Road	9	7
24	Purbrook Way (2)	9	7
25	A2030	0	0
26	B2177 (3)	0	82

Link ID	Road Name	Peak construction development trips	
		HDVs (AADT)	LDVs (AADT)
27	Beverley Grove	0	0
28	Rectory Avenue	0	0
29	New Down Lane	6	186
30	A3 (N)	0	0
31	B2177 (4)	7	49
32	Boarhunt Road	7	105
33	A32 (S)	14	324
34	A32 (C)	10	197
35	A334 (E)	9	199
36	A334 (C)	0	66
37	Titchfield Lane	3	86
38	Blind Lane	2	58
39	B2177 (5)	1	80
40	Shirell Heath High St	1	50
41	B3035	13	137
42	Curdridge Lane	2	36
43	B3037 (W)	0	97
44	B3354 (S)	3	151
45	B3037	0	106
46	B2177 (6)	3	86
47	Winters Hill	6	28
48	B3335 (N)	42	96
49	B3354 (N)	6	56
50	B2177 (7)	4	58
51	B2177 (9)	9	49
52	Otterbourne Hill (N)	0	58
53	Kiln Lane	2	73
54	Church Lane	16	0
55	Bishopstoke Lane	0	0

Link ID	Road Name	Peak construction development trips	
		HDVs (AADT)	LDVs (AADT)
56	B3335 (S)	35	115
57	A335	0	163
58	Waterworks Road	0	93
59	Sparrowgrove	0	93
60	Tanfield Lane	0	0
61	Scivier's Lane	0	0
62	Brockhampton Road	1	0
63	Harts Farm Way (2)	1	35
64	Otterbourne Road	1	35
65	Hockley Link	1	35
66	Southmoor Lane	0	35
67	Otterbourne Hill (S)	2	122
68	B2177 (8)	0	82
69	A334 (W)	13	202
70	Winchester Road Link	2	122
71*	M3 J10-11	253	388
72*	M3 J11-12	253	388
73*	M3 J11 EB On Slip	21	65
74*	M3 J11 WB Off Slip	21	65
75*	M3 J12 NB On Slip	0	49
76*	M3 J12 NB Off Slip	0	94
77*	M3 J12 SB On Slip	1	93
78*	M3 J12 SB Off Slip	1	48
79*	West Street	0	0
101	HR1	4	6
102	HR2	7	33
103	HR3	1	15
104	HR4	1	15
105	HR5	2	0

Link ID	Road Name	Peak construction development trips	
		HDVs (AADT)	LDVs (AADT)
106	HR6	1	12
107	HR7	3	9
108	HR8	4	124
109	HR9	2	35
110	HR10	0	12
111	HR11	2	32
112	HR12	5	59
113	HR13	8	26
114	HR14	8	72
115	HR15	2	15
116	HR16	2	29
117	HR17	2	0
118	HR18	19	0
119	HR19	2	73
120	HR20	0	12

\* Supplementary road links outside the traffic study area to allow a robust assessment of construction phase road traffic emissions on ecological receptors.

## References

- [1] Institute of Air Quality Management and Environmental Protection UK, "Land-Use Planning & Development Control: Planning for Air Quality," January 2017. [Online]. Available: <https://www.iaqm.co.uk/text/guidance/air-quality-planning-guidance.pdf>.



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The logo graphic for Southern Water, featuring three stylized, white, wavy lines that resemble water waves, positioned to the right of the word "Water".