



Norwich Western Link

Environmental Statement

Chapter 6: Air Quality

Appendix 6.6: Operational Phase Human Receptor Results

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Document Reference: 3.06.06

Version Number: 00

Date: March 2024



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1 Operational Phase: Human Receptor Results

1.1.1 The below table outlines the predicted annual mean NO₂ concentrations for all human receptors included in the modelling assessment for all modelled scenarios. The table includes XY coordinates for each receptor point.

Table 1-1 Annual mean NO₂

Receptor ID	X (m)	Y (m)	Baseline 2019 (µg/m ³)	DM 2029 (µg/m ³)	DS 2029 (µg/m ³)	Change (DS-DM) (µg/m ³)
1	599195	312225	17.2	10.1	10.3	0.2
2	600073	312597	15.1	9.3	9.7	0.4
3	600824	313032	18.3	10.9	11.4	0.5
4	601931	313445	13.6	8.7	8.9	0.2
5	609910	318352	21.3	12.3	12.2	-0.1
6	610093	317194	10.4	7.6	7.3	-0.3
7	609743	314277	10.1	6.5	6.4	-0.1
8	611402	315923	9.7	9.4	8.7	-0.7
9	610603	314340	9.2	8.3	7.9	-0.4
10	610103	313659	8.5	9.8	9.5	-0.3
11	612939	317332	9.2	7.9	8.2	0.3
12	613010	316835	10.9	8.3	8.5	0.2
13	612727	316780	19.3	11.4	10.5	-0.9
14	612378	317005	19.2	11.6	10.7	-0.9
15	613186	310997	17.5	10.6	10.7	0.1
16	615457	310625	23.8	14.3	14.0	-0.3
17	616013	310490	18.9	11.7	11.6	-0.1
18	616999	311539	17.8	11.4	10.7	-0.7
19	617745	312348	13.1	8.8	8.6	-0.2
20	613890	313914	9.3	8.8	8.7	-0.1
21	614845	313879	13.7	9.2	8.5	-0.7
22	610441	311889	14.5	8.2	8.5	0.3



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
23	619012	319394	10.9	7.0	7.3	0.3
24	621311	318568	13.3	8.9	8.9	0.0
25	621767	316948	12.4	9.1	9.1	0.0
26	620284	314437	14.1	9.2	9.4	0.2
27	615659	314942	13.4	8.9	9.0	0.1
28	615574	314642	12.3	8.6	8.5	-0.1
29	616672	314398	13.9	9.3	9.5	0.2
30	617028	314108	15.0	11.0	11.3	0.3
31	617914	313594	15.5	9.5	9.6	0.1
32	618118	313759	17.1	10.6	10.3	-0.3
33	618856	313813	15.8	9.8	9.5	-0.3
34	619008	309675	20.7	8.7	8.5	-0.2
35	616833	310414	26.9	15.1	14.3	-0.8
36	616317	308934	22.7	12.4	12.3	-0.1
37	625238	306506	24.7	13.6	13.6	0.0
38	606214	313491	14.1	9.9	10.3	0.4
39	614005	315757	14.0	9.6	10.2	0.6
40	608779	312615	20.6	9.5	10.2	0.7
41	598564	312185	16.7	10.0	10.2	0.2
42	607738	312998	10.9	6.9	7.2	0.3
43	612345	312749	8.9	7.8	7.7	-0.1
44	616952	307400	21.6	11.6	11.6	0.0
45	612535	318738	11.6	7.2	7.5	0.3
46	615375	314319	12.4	8.5	8.2	-0.3
47	611803	311326	10.9	9.1	8.5	-0.6
48	618094	313459	16.1	9.8	9.9	0.1
49	618101	313651	21.2	12.8	12.3	-0.5
50	615354	314336	13.7	8.8	8.3	-0.5
51	607481	313029	12.4	7.6	7.5	-0.1



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
52	611289	315891	9.4	9.2	8.7	-0.5
53	611167	315703	9.9	9.4	8.8	-0.6
54	611690	317601	16.8	9.5	9.4	-0.1
55	612892	317071	9.4	8.0	8.2	0.2
56	615950	315833	12.2	9.1	10.2	1.1
57	615735	314947	16.0	10.1	10.2	0.1
58	616242	314594	14.7	9.7	9.8	0.1
59	616864	314246	17.4	10.5	10.9	0.4
60	618002	313597	21.2	11.6	11.8	0.2
61	618516	313748	17.3	10.3	10.1	-0.2
62	619982	319597	11.3	7.1	7.5	0.4
63	616427	307791	19.9	11.3	11.2	-0.1
64	607721	312908	18.5	7.4	7.8	0.4
65	617323	318348	10.5	7.7	8.2	0.5
66	617320	318386	11.1	7.8	8.5	0.7
67	618054	318693	10.0	6.9	7.2	0.3
68	619646	309905	21.5	9.7	9.5	-0.2
69	620005	310222	21.5	8.7	8.5	-0.2
70	617966	313608	20.0	11.2	11.4	0.2
71	617945	313614	20.6	11.3	11.6	0.3
72	617939	313570	14.5	9.2	9.2	0.0
73	609684	318421	16.0	10.7	10.6	-0.1
74	599234	312253	17.4	10.3	10.6	0.3
75	605447	313767	14.6	10.3	10.6	0.3
76	608375	312722	19.1	7.9	8.4	0.5
77	613393	314065	8.7	8.1	8.1	0.0
78	613463	314052	9.1	8.5	8.2	-0.3
79	614042	313781	11.4	8.8	8.4	-0.4
80	614989	313850	9.2	8.3	8.3	0.0



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
81	615553	314487	12.0	8.3	8.1	-0.2
82	616379	314539	14.3	9.5	9.7	0.2
83	616889	314224	18.8	11.1	11.5	0.4
84	618094	313570	20.7	11.8	11.9	0.1
85	620044	319641	10.3	7.2	7.6	0.4
86	620414	319813	10.0	7.2	7.5	0.3
87	620902	320043	16.3	9.8	9.6	-0.2
88	616953	311584	15.6	10.2	9.8	-0.4
89	617736	312327	12.3	8.5	8.3	-0.2
90	616836	310352	24.6	13.8	13.4	-0.4
91	609058	315319	9.6	7.8	7.6	-0.2
92	607448	312940	16.8	7.5	7.8	0.3
93	623275	314305	13.3	8.4	8.5	0.1
94	616072	313894	13.8	9.4	9.1	-0.3

1.1.2 The below table outlines the predicted annual mean PM₁₀ concentrations for all human receptors included in the modelling assessment for all modelled scenarios. The table includes XY coordinates for each receptor point.

Table 1-2 Annual mean PM₁₀

Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
1	599195	312225	16.3	15.2	15.2	0.0
2	600073	312597	16.9	15.7	15.8	0.1
3	600824	313032	16.5	15.4	15.5	0.1
4	601931	313445	17.4	16.2	16.3	0.1
5	609910	318352	17.0	14.9	14.8	-0.1
6	610093	317194	14.7	14.7	14.6	-0.1
7	609743	314277	16.4	15.1	15.0	-0.1
8	611402	315923	15.2	14.3	14.1	-0.2



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
9	610603	314340	15.7	14.2	14.1	-0.1
10	610103	313659	15.2	14.6	14.4	-0.2
11	612939	317332	15.0	15.4	15.5	0.1
12	613010	316835	16.1	15.2	15.3	0.1
13	612727	316780	17.0	17.0	16.7	-0.3
14	612378	317005	16.6	16.9	16.5	-0.4
15	613186	310997	16.1	14.9	14.9	0.0
16	615457	310625	18.5	17.5	17.3	-0.2
17	616013	310490	17.5	16.4	16.3	-0.1
18	616999	311539	16.2	15.3	15.0	-0.3
19	617745	312348	15.6	15.8	15.7	-0.1
20	613890	313914	16.3	13.5	13.5	0.0
21	614845	313879	16.4	15.3	15.0	-0.3
22	610441	311889	16.2	15.1	15.1	0.0
23	619012	319394	13.9	14.4	14.6	0.2
24	621311	318568	15.3	14.2	14.2	0.0
25	621767	316948	15.2	12.8	12.8	0.0
26	620284	314437	16.5	14.7	14.7	0.0
27	615659	314942	15.1	15.1	15.2	0.1
28	615574	314642	14.8	15.0	14.9	-0.1
29	616672	314398	15.4	14.7	14.8	0.1
30	617028	314108	15.7	16.6	16.7	0.1
31	617914	313594	15.7	15.6	15.6	0.0
32	618118	313759	15.9	16.3	16.2	-0.1
33	618856	313813	15.7	16.0	15.9	-0.1
34	619008	309675	16.7	15.5	15.4	-0.1
35	616833	310414	19.1	18.1	17.7	-0.4
36	616317	308934	17.3	16.2	16.2	0.0
37	625238	306506	19.0	17.8	17.8	0.0



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
38	606214	313491	17.4	16.2	16.3	0.1
39	614005	315757	16.6	15.3	15.5	0.2
40	608779	312615	18.4	16.1	16.3	0.2
41	598564	312185	16.0	14.9	14.9	0.0
42	607738	312998	17.5	16.1	16.2	0.1
43	612345	312749	15.4	14.4	14.4	0.0
44	616952	307400	17.3	16.1	16.1	0.0
45	612535	318738	16.5	14.6	14.7	0.1
46	615375	314319	14.8	14.9	14.8	-0.1
47	611803	311326	16.1	13.8	13.6	-0.2
48	618094	313459	15.8	16.1	16.1	0.0
49	618101	313651	16.5	17.1	16.9	-0.2
50	615354	314336	15.1	15.1	14.8	-0.3
51	607481	313029	16.8	15.4	15.4	0.0
52	611289	315891	15.1	14.2	14.1	-0.1
53	611167	315703	15.2	14.3	14.1	-0.2
54	611690	317601	17.2	15.6	15.6	0.0
55	612892	317071	15.1	15.4	15.5	0.1
56	615950	315833	15.5	15.3	15.8	0.5
57	615735	314947	15.6	15.6	15.6	0.0
58	616242	314594	15.5	14.9	14.9	0.0
59	616864	314246	16.1	15.3	15.5	0.2
60	618002	313597	16.6	16.8	16.9	0.1
61	618516	313748	16.0	16.3	16.1	-0.2
62	619982	319597	14.0	14.5	14.6	0.1
63	616427	307791	17.3	16.2	16.2	0.0
64	607721	312908	18.7	16.3	16.4	0.1
65	617323	318348	15.1	14.2	14.3	0.1
66	617320	318386	15.2	14.2	14.5	0.3



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
67	618054	318693	14.0	13.7	13.8	0.1
68	619646	309905	16.9	15.8	15.8	0.0
69	620005	310222	16.8	14.0	14.0	0.0
70	617966	313608	16.4	16.3	16.4	0.1
71	617945	313614	16.6	16.4	16.6	0.2
72	617939	313570	15.5	15.4	15.4	0.0
73	609684	318421	16.3	14.3	14.3	0.0
74	599234	312253	16.5	15.4	15.5	0.1
75	605447	313767	16.9	16.1	16.2	0.1
76	608375	312722	18.1	15.7	15.9	0.2
77	613393	314065	16.0	14.8	14.7	-0.1
78	613463	314052	16.1	14.9	14.8	-0.1
79	614042	313781	15.8	15.0	14.9	-0.1
80	614989	313850	15.5	14.9	14.9	0.0
81	615553	314487	14.8	14.9	14.8	-0.1
82	616379	314539	15.5	14.8	14.9	0.1
83	616889	314224	16.4	15.6	15.8	0.2
84	618094	313570	16.4	16.6	16.7	0.1
85	620044	319641	13.9	13.0	13.1	0.1
86	620414	319813	13.9	13.0	13.1	0.1
87	620902	320043	14.6	15.0	14.9	-0.1
88	616953	311584	15.8	14.9	14.7	-0.2
89	617736	312327	15.4	15.6	15.5	-0.1
90	616836	310352	18.7	17.5	17.3	-0.2
91	609058	315319	16.0	14.9	14.8	-0.1
92	607448	312940	18.5	16.3	16.4	0.1
93	623275	314305	16.4	15.6	15.7	0.1
94	616072	313894	15.6	16.2	16.0	-0.2



1.1.3 The below table outlines the predicted annual mean PM_{2.5} concentrations for all human receptors included in the modelling assessment for all modelled scenarios. The table includes XY coordinates for each receptor point.

Table 1-3 Annual mean PM_{2.5}

Receptor ID	X (m)	Y (m)	Baseline 2019 (µg/m ³)	DM 2029 (µg/m ³)	DS 2029 (µg/m ³)	Change (DS-DM) (µg/m ³)
1	599195	312225	10.3	9.4	9.4	0.0
2	600073	312597	10.1	9.1	9.2	0.1
3	600824	313032	10.1	9.1	9.2	0.1
4	601931	313445	10.0	9.1	9.1	0.0
5	609910	318352	10.4	9.0	8.9	-0.1
6	610093	317194	9.2	8.5	8.4	-0.1
7	609743	314277	9.6	8.5	8.5	0.0
8	611402	315923	9.2	8.5	8.4	-0.1
9	610603	314340	9.3	8.6	8.5	-0.1
10	610103	313659	9.1	9.2	9.1	-0.1
11	612939	317332	9.3	8.7	8.8	0.1
12	613010	316835	9.5	8.7	8.7	0.0
13	612727	316780	10.2	9.6	9.4	-0.2
14	612378	317005	10.2	9.6	9.4	-0.2
15	613186	310997	9.9	8.9	8.9	0.0
16	615457	310625	11.0	10.1	10.0	-0.1
17	616013	310490	10.5	9.5	9.5	0.0
18	616999	311539	10.1	9.3	9.1	-0.2
19	617745	312348	9.6	8.9	8.8	-0.1
20	613890	313914	9.5	8.4	8.4	0.0
21	614845	313879	9.8	9.0	8.8	-0.2
22	610441	311889	9.8	8.7	8.8	0.1
23	619012	319394	8.9	8.4	8.4	0.0
24	621311	318568	9.4	8.7	8.7	0.0



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
25	621767	316948	9.4	8.0	8.0	0.0
26	620284	314437	9.9	8.6	8.7	0.1
27	615659	314942	9.6	8.9	8.9	0.0
28	615574	314642	9.5	8.8	8.8	0.0
29	616672	314398	9.9	8.8	8.9	0.1
30	617028	314108	10.0	9.9	10.0	0.1
31	617914	313594	9.9	9.0	9.0	0.0
32	618118	313759	10.0	9.3	9.2	-0.1
33	618856	313813	9.9	9.1	9.0	-0.1
34	619008	309675	10.9	8.7	8.7	0.0
35	616833	310414	11.4	10.5	10.3	-0.2
36	616317	308934	10.6	9.6	9.6	0.0
37	625238	306506	11.1	10.1	10.1	0.0
38	606214	313491	10.1	9.1	9.2	0.1
39	614005	315757	9.8	9.0	9.1	0.1
40	608779	312615	10.7	9.1	9.2	0.1
41	598564	312185	10.3	9.3	9.4	0.1
42	607738	312998	9.9	8.9	8.9	0.0
43	612345	312749	9.2	8.4	8.4	0.0
44	616952	307400	10.5	9.5	9.5	0.0
45	612535	318738	9.8	8.4	8.5	0.1
46	615375	314319	9.5	8.8	8.7	-0.1
47	611803	311326	9.6	8.5	8.4	-0.1
48	618094	313459	10.0	9.1	9.2	0.1
49	618101	313651	10.4	9.7	9.6	-0.1
50	615354	314336	9.6	8.9	8.7	-0.2
51	607481	313029	9.8	8.7	8.7	0.0
52	611289	315891	9.1	8.5	8.4	-0.1
53	611167	315703	9.2	8.6	8.4	-0.2



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
54	611690	317601	11.4	8.9	8.9	0.0
55	612892	317071	9.3	8.7	8.8	0.1
56	615950	315833	9.5	8.9	9.2	0.3
57	615735	314947	9.9	9.2	9.2	0.0
58	616242	314594	10.0	8.9	8.9	0.0
59	616864	314246	10.3	9.2	9.3	0.1
60	618002	313597	10.4	9.5	9.6	0.1
61	618516	313748	10.1	9.2	9.2	0.0
62	619982	319597	8.9	8.4	8.5	0.1
63	616427	307791	10.5	9.5	9.5	0.0
64	607721	312908	10.7	9.0	9.0	0.0
65	617323	318348	9.2	8.1	8.2	0.1
66	617320	318386	9.3	8.2	8.3	0.1
67	618054	318693	8.9	8.2	8.2	0.0
68	619646	309905	11.0	8.9	8.9	0.0
69	620005	310222	10.7	8.3	8.3	0.0
70	617966	313608	10.4	9.4	9.5	0.1
71	617945	313614	10.5	9.5	9.6	0.1
72	617939	313570	9.8	8.9	8.9	0.0
73	609684	318421	9.9	8.7	8.6	-0.1
74	599234	312253	10.4	9.5	9.5	0.0
75	605447	313767	9.9	9.2	9.2	0.0
76	608375	312722	10.6	8.9	9.0	0.1
77	613393	314065	9.4	8.7	8.7	0.0
78	613463	314052	9.4	8.8	8.7	-0.1
79	614042	313781	9.5	8.9	8.8	-0.1
80	614989	313850	9.3	8.8	8.8	0.0
81	615553	314487	9.5	8.7	8.7	0.0
82	616379	314539	10.0	8.9	9.0	0.1



Receptor ID	X (m)	Y (m)	Baseline 2019 ($\mu\text{g}/\text{m}^3$)	DM 2029 ($\mu\text{g}/\text{m}^3$)	DS 2029 ($\mu\text{g}/\text{m}^3$)	Change (DS-DM) ($\mu\text{g}/\text{m}^3$)
83	616889	314224	10.5	9.3	9.4	0.1
84	618094	313570	10.3	9.5	9.5	0.0
85	620044	319641	8.9	8.1	8.2	0.1
86	620414	319813	8.9	8.1	8.1	0.0
87	620902	320043	9.3	8.9	8.8	-0.1
88	616953	311584	9.9	9.0	8.9	-0.1
89	617736	312327	9.5	8.8	8.7	-0.1
90	616836	310352	11.2	10.1	10.0	-0.1
91	609058	315319	9.4	8.6	8.6	0.0
92	607448	312940	10.5	9.0	9.0	0.0
93	623275	314305	9.8	8.8	8.8	0.0
94	616072	313894	9.7	9.1	9.0	-0.1