

APPENDIX 6.4 – MODEL RESULTS

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Table A6.4.1 Year specific nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$).

Receptor				Year specific nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
01_A48	A48 Culverhouse Cross to Sycamore Cross	310435	174548	20.5	16.9	19.2	2.32	Negligible	10.6	12.1	1.50	Negligible
02_A48		309853	174708	10.9	9.4	9.5	0.18	Negligible	6.8	7.0	0.11	Negligible
03_A48		309236	174344	20.2	16.5	18.7	2.22	Negligible	10.5	12.0	1.45	Negligible
04_STN		309069	174298	21.3	17.1	19.4	2.34	Negligible	10.9	12.4	1.52	Negligible
05_A48		308967	174264	20.7	16.5	18.9	2.38	Negligible	10.6	12.1	1.53	Negligible
06_STN		308897	174278	13.8	11.5	12.4	0.90	Negligible	8.0	8.5	0.57	Negligible
07_STN		308651	174220	23.1	18.3	21.2	2.92	Negligible	11.5	13.4	1.91	Negligible
08_A48		308360	174184	29.8	23.6	28.2	4.60	Slight Adverse	14.3	17.5	3.22	Negligible
09_A48		307708	174206	16.5	13.7	15.0	1.34	Negligible	9.0	9.9	0.88	Negligible
10_A48		307299	174141	15.3	12.6	12.8	0.18	Negligible	8.4	8.5	0.10	Negligible
11_A48		307226	174101	21.7	17.2	17.2	0.09	Negligible	10.7	10.7	0.05	Negligible
12_WAY	Five Mile Lane and Associated Minor Lanes	307609	173757	11.3	9.8	9.9	0.12	Negligible	7.1	7.2	0.02	Negligible
13_WAY		307728	173756	12.0	10.5	10.4	-0.10	Negligible	7.5	7.4	-0.13	Negligible
14_DYF		311674	173680	11.5	9.9	9.8	-0.11	Negligible	7.1	7.0	-0.04	Negligible
15_WAY		307753	172782	11.2	9.8	9.9	0.07	Negligible	7.2	7.2	-0.03	Negligible
16_DYF		308474	171721	10.2	8.9	8.8	-0.09	Negligible	6.6	6.6	-0.05	Negligible
16_WAY		307882	171529	13.7	12.2	10.7	-1.48	Negligible	9.3	8.4	-0.86	Negligible
17_WAY		308134	170570	10.6	9.3	11.1	1.79	Negligible	6.9	7.8	0.93	Negligible
18_WAY		307927	170493	10.8	9.5	9.3	-0.21	Negligible	7.0	6.8	-0.16	Negligible
19_WAY		308062	169779	13.6	12.0	9.1	-2.89	Negligible	8.4	6.7	-1.70	Negligible
20_WAY		309129	169236	12.1	10.9	11.1	0.22	Negligible	8.5	8.6	0.10	Negligible
21_WAY		309349	169095	12.0	10.7	10.8	0.10	Negligible	8.4	8.5	0.05	Negligible
20_RHO	Rhoose Village	306897	166602	12.7	11.2	11.2	0.01	Negligible	7.9	7.9	0.00	Negligible
21_PPR	B4266 Pontypridd Road	309752	168506	19.8	16.9	16.9	0.01	Negligible	11.0	10.9	-0.12	Negligible
22_PPR		309924	168336	18.7	15.8	16.0	0.20	Negligible	10.3	10.3	-0.02	Negligible
23_PPR		310318	167995	15.1	12.9	13.1	0.12	Negligible	8.8	8.8	0.00	Negligible

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Receptor				Year specific nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
24_PRW	Port Road West, Waycock Cross to Cardiff Airport	308437	168071	13.8	12.1	12.1	0.01	Negligible	8.8	8.8	0.00	Negligible
25_PRW		309091	168372	18.7	16.6	16.6	0.03	Negligible	11.8	11.8	0.01	Negligible
26_PRW		309420	168482	19.2	17.0	17.1	0.07	Negligible	12.1	12.1	0.02	Negligible
27_WCC		309646	168532	18.7	16.4	16.5	0.06	Negligible	11.5	11.5	-0.04	Negligible
28_PRW		309686	168594	26.6	22.7	21.9	-0.84	Negligible	15.3	14.5	-0.79	Negligible
29_PRW		309793	168579	19.6	16.8	15.3	-1.51	Negligible	11.5	10.5	-1.07	Negligible
30_PRW	Port Road West, Waycock Cross to Colcot Road	309979	168658	21.3	18.3	16.1	-2.22	Negligible	12.5	11.0	-1.51	Negligible
31_PRW		310164	168805	20.4	17.4	15.3	-2.09	Negligible	12.0	10.6	-1.42	Negligible
32_PRW		310256	168959	22.1	18.8	16.4	-2.45	Negligible	12.9	11.2	-1.65	Negligible
33_PRW		310284	169056	23.4	19.7	17.4	-2.31	Negligible	13.3	11.7	-1.57	Negligible
34_PRW		310507	169275	16.1	14.0	13.0	-1.00	Negligible	9.7	9.0	-0.75	Negligible
35_PRW		310530	169367	22.8	19.6	17.8	-1.88	Negligible	13.2	11.8	-1.45	Negligible
36_PRW		310625	169490	15.6	13.5	12.6	-0.83	Negligible	9.4	8.8	-0.60	Negligible
37_PRW		310680	169144	11.5	9.9	9.8	-0.13	Negligible	7.2	7.1	-0.09	Negligible
38_PRE	Port Road East, Colcot Road to A4231	310802	169580	19.1	16.5	15.6	-0.93	Negligible	10.9	10.4	-0.49	Negligible
39_PRE		310923	169817	16.7	14.4	13.2	-1.12	Negligible	9.9	9.3	-0.66	Negligible
40_PRE		311172	169994	16.2	14.0	12.9	-1.05	Negligible	9.7	9.1	-0.62	Negligible
41_PRE		311391	170150	18.4	15.8	14.4	-1.42	Negligible	10.8	10.0	-0.84	Negligible
42_PRE		311398	170033	12.8	11.1	10.6	-0.48	Negligible	7.9	7.6	-0.29	Negligible
43_PRE		311662	170392	18.4	15.8	14.4	-1.42	Negligible	10.8	10.0	-0.84	Negligible
44_PRE		311692	170334	15.3	13.1	12.3	-0.83	Negligible	9.1	8.6	-0.51	Negligible
45_PRE		311798	170426	20.0	17.2	15.5	-1.70	Negligible	11.7	10.6	-1.01	Negligible
46_PRE		312038	170322	11.7	10.1	9.9	-0.28	Negligible	7.4	7.2	-0.17	Negligible
47_PRE		312352	170547	22.2	19.3	17.2	-2.09	Negligible	12.9	11.6	-1.25	Negligible
48_PRN	Port Road East, A4231 to Culverhouse Cross	312581	171026	24.0	19.8	17.1	-2.69	Negligible	12.4	11.0	-1.41	Negligible
49_PRN		312246	171511	13.6	11.5	10.8	-0.72	Negligible	8.0	7.6	-0.37	Negligible
50_PRN		312157	172001	23.6	19.3	16.6	-2.63	Negligible	12.0	10.7	-1.35	Negligible
51_PRN		312304	172085	14.1	11.9	11.1	-0.72	Negligible	8.2	7.8	-0.37	Negligible
52_PRN		312292	172466	26.1	20.7	17.8	-2.95	Negligible	12.8	11.3	-1.52	Negligible

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Receptor				Year specific nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
53_PRN	Culverhouse Cross	312329	172802	25.0	20.0	17.2	-2.81	Negligible	12.4	11.0	-1.45	Negligible
54_PRN		312312	172931	24.0	19.3	16.6	-2.65	Negligible	12.0	10.6	-1.37	Negligible
55_PRN		312217	173298	20.9	16.9	14.8	-2.06	Negligible	10.8	9.7	-1.05	Negligible
56_PRN		312293	173337	23.3	18.8	16.4	-2.46	Negligible	11.8	10.5	-1.26	Negligible
57_PRN		312198	173378	29.3	23.5	20.0	-3.47	Negligible	14.3	12.5	-1.81	Negligible
58_PRN		312086	173731	15.7	13.0	11.9	-1.05	Negligible	8.7	8.2	-0.53	Negligible
59_PRN		311886	174517	21.6	17.8	16.3	-1.53	Negligible	11.3	10.5	-0.77	Negligible
60_RAA	Culverhouse Cross	311717	175079	18.9	15.8	15.8	0.00	Negligible	10.3	10.3	0.01	Negligible

Table A6.4.2 Sensitivity test nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$)

Receptor				Sensitivity test nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM (as 2013)	2017 DS (as 2013)	Change	Significance	2032 DM (as 2017)	2032 DS (as 2017)	Change	Significance
01_A48	A48, Culverhouse Cross to Sycamore Cross	310435	174548	20.5	20.8	23.6	2.75	Negligible	18.2	21.5	3.26	Negligible
02_A48		309853	174708	10.9	10.9	11.1	0.20	Negligible	9.5	9.8	0.27	Negligible
03_A48		309236	174344	20.2	20.2	22.6	2.37	Negligible	18.0	21.2	3.24	Negligible
04_STN		309069	174298	21.3	20.9	23.4	2.49	Negligible	18.7	22.1	3.37	Negligible
05_A48		308967	174264	20.7	20.3	22.8	2.55	Negligible	18.0	21.5	3.42	Negligible
06_STN		308897	174278	13.8	13.7	14.7	0.99	Negligible	12.1	13.4	1.31	Negligible
07_STN		308651	174220	23.1	22.6	25.7	3.09	Negligible	20.2	24.4	4.18	SlightAdverse
08_A48		308360	174184	29.8	29.6	34.5	4.96	SlightAdverse	26.4	33.0	6.62	SlightAdverse
09_A48		307708	174206	16.5	16.7	18.1	1.46	Negligible	14.5	16.5	1.94	Negligible
10_A48		307299	174141	15.3	15.4	15.6	0.21	Negligible	13.4	13.6	0.23	Negligible
11_A48		307226	174101	21.7	21.4	21.5	0.10	Negligible	18.6	18.8	0.12	Negligible
12_WAY	Five Mile Lane and associated minor lanes	307609	173757	11.3	11.5	11.6	0.12	Negligible	10.2	10.2	0.04	Negligible
13_WAY		307728	173756	12.0	12.4	12.2	-0.19	Negligible	11.1	10.7	-0.31	Negligible
14_DYF		311674	173680	11.5	11.5	11.4	-0.14	Negligible	10.1	10.0	-0.09	Negligible
15_WAY		307753	172782	11.2	11.5	11.5	0.04	Negligible	10.2	10.2	-0.08	Negligible
16_DYF		308474	171721	10.2	10.3	10.2	-0.12	Negligible	9.0	8.9	-0.13	Negligible
16_WAY		307882	171530	13.7	17.8	10.9	-6.87	SlightBeneficial	16.6	9.5	-7.04	Negligible
17_WAY		308134	170570	10.6	10.8	13.1	2.30	Negligible	9.5	11.5	2.02	Negligible
18_WAY		307927	170493	10.8	11.0	10.7	-0.27	Negligible	9.8	9.4	-0.36	Negligible
19_WAY		308062	169779	13.6	14.2	10.5	-3.69	Negligible	13.0	9.2	-3.79	Negligible
20_WAY		309129	169236	12.1	11.8	12.9	1.09	Negligible	10.5	11.4	0.84	Negligible
21_WAY	309349	169095	12.0	11.0	11.5	0.50	Negligible	9.7	10.1	0.38	Negligible	
20_RHO	Rhoose Village	306897	166602	12.7	13.2	13.2	0.00	Negligible	11.8	11.8	0.00	Negligible
21_PPR	B4226	309752	168506	19.8	20.4	20.4	0.03	Negligible	18.8	18.6	-0.22	Negligible
22_PPR	Pontypridd Road	309924	168336	18.7	19.1	19.3	0.24	Negligible	17.4	17.3	-0.05	Negligible

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Receptor				Sensitivity test nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM (as 2013)	2017 DS (as 2013)	Change	Significance	2032 DM (as 2017)	2032 DS (as 2017)	Change	Significance
23_PPR		310318	167995	15.1	15.5	15.6	0.14	Negligible	13.9	13.9	-0.02	Negligible
24_PRW	Port Road West, Waycock Cross to Cardiff Airport	308437	168071	13.8	14.4	14.4	0.01	Negligible	13.9	13.9	0.01	Negligible
25_PRW		309091	168372	18.7	20.2	20.3	0.03	Negligible	20.5	20.5	0.03	Negligible
26_PRW		309420	168482	19.2	20.8	20.9	0.09	Negligible	21.2	21.2	0.05	Negligible
27_WCC		309646	168532	18.7	20.0	20.1	0.11	Negligible	19.9	19.8	-0.07	Negligible
28_PRW		309686	168594	26.6	27.7	27.0	-0.73	Negligible	27.7	26.2	-1.50	Negligible
29_PRW		309793	168579	19.6	20.3	18.5	-1.76	Negligible	19.8	17.6	-2.16	Negligible
30_PRW		309979	168658	21.3	22.1	19.6	-2.57	Negligible	21.8	18.8	-3.03	Negligible
31_PRW	Port Road West, Waycock Cross to Colcot Road	310164	168805	20.4	21.1	18.6	-2.43	Negligible	20.7	17.8	-2.86	Negligible
32_PRW		310256	168959	22.1	22.8	20.0	-2.83	Negligible	22.5	19.2	-3.31	Negligible
33_PRW		310284	169056	23.4	23.8	21.2	-2.59	Negligible	23.4	20.3	-3.14	Negligible
34_PRW		310507	169275	16.1	16.7	15.6	-1.09	Negligible	15.8	14.2	-1.55	Negligible
35_PRW		310530	169367	22.8	23.7	21.8	-1.93	Negligible	23.1	20.2	-2.89	Negligible
36_PRW		310625	169490	15.6	16.1	15.2	-0.88	Negligible	15.1	13.8	-1.25	Negligible
37_PRW		310680	169144	11.5	11.6	11.4	-0.15	Negligible	10.3	10.1	-0.18	Negligible
38_PRE	Port Road East, Colcot Road to A4231	310802	169580	19.1	19.7	18.7	-1.04	Negligible	18.3	17.3	-1.00	Negligible
39_PRE		310923	169817	16.7	17.2	16.0	-1.20	Negligible	16.2	14.9	-1.36	Negligible
40_PRE		311172	169994	16.2	16.7	15.6	-1.14	Negligible	15.8	14.5	-1.29	Negligible
41_PRE		311391	170150	18.4	19.0	17.5	-1.53	Negligible	18.2	16.4	-1.73	Negligible
42_PRE		311398	170033	12.8	13.1	12.5	-0.54	Negligible	11.9	11.3	-0.61	Negligible
43_PRE		311662	170392	18.4	19.1	17.6	-1.53	Negligible	18.2	16.5	-1.73	Negligible
44_PRE		311692	170334	15.3	15.7	14.7	-0.93	Negligible	14.5	13.5	-1.07	Negligible
45_PRE		311798	170426	20.0	20.9	19.0	-1.81	Negligible	20.0	18.0	-2.06	Negligible
46_PRE		312038	170322	11.7	11.9	11.6	-0.32	Negligible	10.7	10.3	-0.36	Negligible
47_PRE		312352	170547	22.2	23.4	21.1	-2.30	Negligible	22.6	20.1	-2.51	Negligible
48_PRN	Port Road East, A4231 to Culverhouse	312581	171026	24.0	24.7	21.4	-3.30	Negligible	22.5	19.6	-2.96	Negligible
49_PRN		312246	171511	13.6	13.8	12.9	-0.91	Negligible	12.2	11.4	-0.81	Negligible
50_PRN		312157	172001	23.6	24.1	20.9	-3.18	Negligible	21.8	18.9	-2.88	Negligible

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Receptor				Sensitivity test nitrogen dioxide model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM (as 2013)	2017 DS (as 2013)	Change	Significance	2032 DM (as 2017)	2032 DS (as 2017)	Change	Significance
51_PRN	Cross	312304	172085	14.1	14.2	13.3	-0.92	Negligible	12.7	11.9	-0.81	Negligible
52_PRN		312292	172466	26.1	26.0	22.5	-3.50	Negligible	23.5	20.3	-3.21	Negligible
53_PRN		312329	172802	25.0	25.1	21.7	-3.41	Negligible	22.6	19.6	-3.06	Negligible
54_PRN		312312	172931	24.0	24.1	20.9	-3.23	Negligible	21.7	18.8	-2.89	Negligible
55_PRN		312217	173298	20.9	21.0	18.5	-2.53	Negligible	18.8	16.6	-2.26	Negligible
56_PRN		312293	173337	23.3	23.5	20.4	-3.02	Negligible	21.2	18.5	-2.67	Negligible
57_PRN		312198	173378	29.3	29.5	25.4	-4.14	SlightBeneficial	26.9	23.2	-3.73	Negligible
58_PRN		312086	173731	15.7	15.8	14.5	-1.31	Negligible	14.1	12.9	-1.17	Negligible
59_PRN		311886	174517	21.6	22.1	20.2	-1.90	Negligible	19.9	18.3	-1.61	Negligible
60_RAA	Culverhouse Cross	311717	175079	18.9	19.4	19.4	-0.02	Negligible	17.5	17.5	0.02	Negligible

Table A6.4.3 Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)

Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1_Barry 1A	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309181	169102	4.2	33.4	29.3	39.4	10.19	Substantial Adverse	20.0	25.2	5.21	Slight Adverse
2_Barry 1A		309185	169105	9.2	29.6	25.8	32.3	6.48	Substantial Adverse	18.0	21.3	3.28	Slight Adverse
3_Barry 1A		309189	169108	14.2	27.6	24.1	28.9	4.82	Moderate Adverse	16.9	19.3	2.43	Negligible
4_Barry 1A		309193	169111	19.2	26.4	23.0	26.8	3.86	Slight Adverse	16.2	18.2	1.93	Negligible
5_Barry 1A		309197	169114	24.2	25.5	22.2	25.4	3.22	Slight Adverse	15.8	17.4	1.61	Negligible
6_Barry 1A		309201	169117	29.2	24.9	21.6	24.4	2.76	Slight Adverse	15.4	16.8	1.38	Negligible
7_Barry 1A		309205	169120	34.2	24.5	21.2	23.6	2.41	Slight Adverse	15.2	16.4	1.20	Negligible
8_Barry 1A		309209	169123	39.2	24.1	20.9	23.0	2.14	Slight Adverse	15.0	16.0	1.07	Negligible
9_Barry 1A		309213	169126	44.2	23.8	20.6	22.5	1.93	Slight Adverse	14.8	15.8	0.96	Negligible
10_Barry 1A		309217	169129	49.2	23.5	20.4	22.1	1.75	Negligible	14.7	15.5	0.87	Negligible
11_Barry 1A		309221	169132	54.2	23.3	20.2	21.8	1.60	Negligible	14.6	15.4	0.79	Negligible
12_Barry 1A		309225	169135	59.2	23.1	20.0	21.5	1.48	Negligible	14.5	15.2	0.73	Negligible
13_Barry 1A		309229	169138	64.2	23.0	19.9	21.2	1.37	Negligible	14.4	15.1	0.68	Negligible
14_Barry 1A		309233	169141	69.2	22.8	19.7	21.0	1.28	Negligible	14.3	14.9	0.63	Negligible
15_Barry 1A		309237	169144	74.2	22.7	19.6	20.8	1.20	Negligible	14.2	14.8	0.59	Negligible
16_Barry 1A		309241	169147	79.2	22.6	19.5	20.7	1.12	Negligible	14.2	14.7	0.55	Negligible
17_Barry 1A		309245	169150	84.2	22.5	19.5	20.5	1.06	Negligible	14.1	14.6	0.52	Negligible
18_Barry 1A		309249	169153	89.2	22.4	19.4	20.4	1.00	Negligible	14.1	14.6	0.49	Negligible
19_Barry 1A		309253	169156	94.2	22.4	19.3	20.3	0.95	Negligible	14.0	14.5	0.46	Negligible
20_Barry 1A		309257	169159	99.2	22.3	19.2	20.1	0.90	Negligible	14.0	14.4	0.44	Negligible
21_Barry 1A		309265	169164	109.2	22.2	19.1	20.0	0.82	Negligible	13.9	14.3	0.40	Negligible
22_Barry 1A		309273	169170	119.2	22.1	19.0	19.8	0.75	Negligible	13.9	14.2	0.36	Negligible
23_Barry 1A		309282	169176	129.2	22.0	19.0	19.6	0.69	Negligible	13.8	14.2	0.33	Negligible
24_Barry 1A		309290	169182	139.2	21.9	18.9	19.5	0.64	Negligible	13.8	14.1	0.31	Negligible
25_Barry 1A		309298	169188	149.2	21.8	18.8	19.4	0.60	Negligible	13.7	14.0	0.29	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
26_Barry 1B	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309234	169040	2.4	36.3	31.8	45.5	13.63	Substantial Adverse	21.6	28.6	7.03	Moderate Adverse
27_Barry 1B		309238	169044	7.4	30.8	26.9	34.6	7.69	Substantial Adverse	18.6	22.5	3.91	Slight Adverse
28_Barry 1B		309241	169047	12.4	28.3	24.7	30.1	5.47	Substantial Adverse	17.3	20.0	2.77	Negligible
29_Barry 1B		309245	169051	17.4	26.8	23.3	27.6	4.27	Moderate Adverse	16.5	18.6	2.15	Negligible
30_Barry 1B		309248	169054	22.4	25.9	22.5	26.0	3.50	Slight Adverse	15.9	17.7	1.76	Negligible
31_Barry 1B		309252	169058	27.4	25.2	21.8	24.8	2.97	Slight Adverse	15.6	17.1	1.49	Negligible
32_Barry 1B		309255	169061	32.4	24.6	21.4	23.9	2.58	Slight Adverse	15.3	16.6	1.29	Negligible
33_Barry 1B		309259	169065	37.4	24.2	21.0	23.3	2.27	Slight Adverse	15.1	16.2	1.13	Negligible
34_Barry 1B		309263	169068	42.4	23.9	20.7	22.7	2.03	Slight Adverse	14.9	15.9	1.01	Negligible
35_Barry 1B		309266	169072	47.4	23.6	20.5	22.3	1.83	Negligible	14.7	15.7	0.91	Negligible
36_Barry 1B		309270	169075	52.4	23.4	20.3	21.9	1.67	Negligible	14.6	15.5	0.83	Negligible
37_Barry 1B		309273	169079	57.4	23.2	20.1	21.6	1.53	Negligible	14.5	15.3	0.76	Negligible
38_Barry 1B		309277	169082	62.4	23.1	20.0	21.4	1.42	Negligible	14.4	15.1	0.70	Negligible
39_Barry 1B		309280	169086	67.4	22.9	19.8	21.1	1.32	Negligible	14.4	15.0	0.65	Negligible
40_Barry 1B		309284	169089	72.4	22.8	19.7	20.9	1.23	Negligible	14.3	14.9	0.60	Negligible
41_Barry 1B		309287	169093	77.4	22.7	19.6	20.8	1.15	Negligible	14.2	14.8	0.57	Negligible
42_Barry 1B		309291	169096	82.4	22.6	19.5	20.6	1.08	Negligible	14.2	14.7	0.53	Negligible
43_Barry 1B		309295	169100	87.4	22.5	19.4	20.5	1.02	Negligible	14.1	14.6	0.50	Negligible
44_Barry 1B		309298	169103	92.4	22.4	19.4	20.3	0.97	Negligible	14.1	14.6	0.47	Negligible
45_Barry 1B		309302	169107	97.4	22.3	19.3	20.2	0.92	Negligible	14.0	14.5	0.45	Negligible
46_Barry 1B		309305	169110	102.4	22.3	19.2	20.1	0.87	Negligible	14.0	14.4	0.43	Negligible
47_Barry 1B	309312	169117	112.4	22.2	19.1	19.9	0.79	Negligible	13.9	14.3	0.39	Negligible	
48_Barry 1B	309320	169124	122.4	22.1	19.0	19.8	0.73	Negligible	13.9	14.2	0.35	Negligible	
49_Barry 1B	309327	169131	132.4	22.0	19.0	19.6	0.67	Negligible	13.8	14.2	0.32	Negligible	
50_Barry 1B	309334	169138	142.4	21.9	18.9	19.5	0.62	Negligible	13.8	14.1	0.30	Negligible	
51_Barry 1B	309341	169145	152.4	21.8	18.8	19.4	0.58	Negligible	13.8	14.0	0.28	Negligible	
52_Barry 1C	Barry	309340	168927	1.2	39.7	34.9	46.9	12.04	Substantial Adverse	23.4	29.4	6.00	Moderate Adverse

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)										
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance	
53_Barry 1C	Woodlands SSSI (Middleton Plantation, East of A4226)	309344	168930	6.2	32.6	28.5	35.9	7.36	Substantial Adverse	19.6	23.3	3.67	Slight Adverse	
54_Barry 1C		309347	168934	11.2	29.3	25.6	30.8	5.21	Substantial Adverse	17.8	20.4	2.59	Negligible	
55_Barry 1C		309351	168937	16.2	27.5	24.0	28.0	4.06	Moderate Adverse	16.9	18.9	2.01	Negligible	
56_Barry 1C		309355	168940	21.2	26.4	22.9	26.3	3.33	Slight Adverse	16.2	17.9	1.65	Negligible	
57_Barry 1C		309359	168944	26.2	25.6	22.2	25.0	2.82	Slight Adverse	15.8	17.2	1.40	Negligible	
58_Barry 1C		309362	168947	31.2	25.0	21.7	24.1	2.45	Slight Adverse	15.5	16.7	1.21	Negligible	
59_Barry 1C		309366	168950	36.2	24.5	21.3	23.4	2.16	Slight Adverse	15.2	16.3	1.07	Negligible	
60_Barry 1C		309370	168954	41.2	24.2	20.9	22.9	1.94	Slight Adverse	15.0	16.0	0.96	Negligible	
61_Barry 1C		309373	168957	46.2	23.9	20.7	22.4	1.75	Negligible	14.9	15.7	0.86	Negligible	
62_Barry 1C		309377	168961	51.2	23.6	20.5	22.1	1.60	Negligible	14.7	15.5	0.79	Negligible	
63_Barry 1C		309381	168964	56.2	23.4	20.3	21.7	1.47	Negligible	14.6	15.4	0.72	Negligible	
64_Barry 1C		309385	168967	61.2	23.3	20.1	21.5	1.36	Negligible	14.5	15.2	0.67	Negligible	
65_Barry 1C		309388	168971	66.2	23.1	20.0	21.2	1.26	Negligible	14.5	15.1	0.62	Negligible	
66_Barry 1C		309392	168974	71.2	23.0	19.9	21.0	1.18	Negligible	14.4	15.0	0.58	Negligible	
67_Barry 1C		309396	168977	76.2	22.9	19.8	20.9	1.11	Negligible	14.3	14.9	0.54	Negligible	
68_Barry 1C		309399	168981	81.2	22.8	19.7	20.7	1.04	Negligible	14.3	14.8	0.51	Negligible	
69_Barry 1C		309403	168984	86.2	22.7	19.6	20.6	0.98	Negligible	14.2	14.7	0.48	Negligible	
70_Barry 1C		309407	168987	91.2	22.6	19.5	20.4	0.93	Negligible	14.2	14.6	0.45	Negligible	
71_Barry 1C		309410	168991	96.2	22.5	19.4	20.3	0.88	Negligible	14.1	14.5	0.43	Negligible	
72_Barry 1C		309414	168994	101.2	22.4	19.4	20.2	0.83	Negligible	14.1	14.5	0.41	Negligible	
73_Barry 1C		309422	169001	111.2	22.3	19.3	20.0	0.76	Negligible	14.0	14.4	0.37	Negligible	
74_Barry 1C		309429	169007	121.2	22.2	19.2	19.9	0.69	Negligible	14.0	14.3	0.33	Negligible	
75_Barry 1C		309436	169014	131.2	22.1	19.1	19.7	0.64	Negligible	13.9	14.2	0.31	Negligible	
76_Barry 1C		309444	169021	141.2	22.0	19.0	19.6	0.59	Negligible	13.9	14.1	0.28	Negligible	
77_Barry 1C		309451	169028	151.2	22.0	19.0	19.5	0.55	Negligible	13.8	14.1	0.26	Negligible	
78_Barry 2A		Barry Woodlands	309070	169197	4.4	30.8	27.0	33.7	6.70	Substantial Adverse	18.7	22.0	3.36	Slight Adverse
79_Barry 2A			309066	169194	9.4	27.7	24.2	28.3	4.07	Moderate Adverse	17.0	19.0	2.00	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
80_Barry 2A	SSSI (Middleton Plantation, West of A4226)	309062	169191	14.4	26.1	22.8	25.8	3.02	Slight Adverse	16.1	17.6	1.47	Negligible
81_Barry 2A		309058	169187	19.4	25.1	21.9	24.3	2.45	Slight Adverse	15.6	16.8	1.19	Negligible
82_Barry 2A		309055	169184	24.4	24.5	21.3	23.3	2.08	Slight Adverse	15.2	16.2	1.01	Negligible
83_Barry 2A		309051	169181	29.4	24.0	20.8	22.6	1.82	Slight Adverse	14.9	15.8	0.88	Negligible
84_Barry 2A		309047	169178	34.4	23.6	20.5	22.1	1.62	Negligible	14.7	15.5	0.78	Negligible
85_Barry 2A		309043	169174	39.4	23.3	20.2	21.7	1.46	Negligible	14.6	15.3	0.71	Negligible
86_Barry 2A		309040	169171	44.4	23.1	20.0	21.3	1.33	Negligible	14.4	15.1	0.65	Negligible
87_Barry 2A		309036	169168	49.4	22.9	19.8	21.0	1.23	Negligible	14.3	14.9	0.59	Negligible
88_Barry 2A		309032	169164	54.4	22.7	19.6	20.8	1.14	Negligible	14.2	14.8	0.55	Negligible
89_Barry 2A		309028	169161	59.4	22.6	19.5	20.6	1.06	Negligible	14.2	14.7	0.51	Negligible
90_Barry 2A		309025	169158	64.4	22.4	19.4	20.4	0.99	Negligible	14.1	14.6	0.48	Negligible
91_Barry 2A		309021	169154	69.4	22.3	19.3	20.2	0.93	Negligible	14.0	14.5	0.45	Negligible
92_Barry 2A		309017	169151	74.4	22.2	19.2	20.1	0.88	Negligible	14.0	14.4	0.42	Negligible
93_Barry 2A		309013	169148	79.4	22.1	19.1	20.0	0.83	Negligible	13.9	14.3	0.40	Negligible
94_Barry 2A		309009	169145	84.4	22.1	19.1	19.9	0.78	Negligible	13.9	14.3	0.38	Negligible
95_Barry 2A		309006	169141	89.4	22.0	19.0	19.8	0.75	Negligible	13.9	14.2	0.36	Negligible
96_Barry 2A		309002	169138	94.4	21.9	19.0	19.7	0.71	Negligible	13.8	14.2	0.34	Negligible
97_Barry 2A		308998	169135	99.4	21.9	18.9	19.6	0.68	Negligible	13.8	14.1	0.33	Negligible
980_Barry 2A		308991	169128	109.4	21.8	18.8	19.4	0.62	Negligible	13.7	14.0	0.30	Negligible
991_Barry 2A		308983	169121	119.4	21.7	18.7	19.3	0.57	Negligible	13.7	14.0	0.28	Negligible
1002_Barry 2A	308976	169115	129.4	21.6	18.7	19.2	0.53	Negligible	13.7	13.9	0.25	Negligible	
1013_Barry 2A	308968	169108	139.4	21.6	18.6	19.1	0.49	Negligible	13.6	13.9	0.24	Negligible	
1024_Barry 2A	308961	169102	149.4	21.5	18.6	19.0	0.46	Negligible	13.6	13.8	0.22	Negligible	
1035_Barry 2A	308953	169095	159.4	21.5	18.5	19.0	0.43	Negligible	13.6	13.8	0.21	Negligible	
1046_Barry 2A	308946	169089	169.4	21.4	18.5	18.9	0.40	Negligible	13.6	13.7	0.19	Negligible	
1057_Barry 2A	308938	169082	179.4	21.4	18.5	18.9	0.38	Negligible	13.5	13.7	0.18	Negligible	
1068_Barry 2A	308931	169075	189.4	21.4	18.4	18.8	0.36	Negligible	13.5	13.7	0.17	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1079_Barry 2A		308923	169069	199.4	21.3	18.4	18.8	0.34	Negligible	13.5	13.7	0.16	Negligible
1081_Barry 2B	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309170	169079	4.4	31.8	28.0	35.3	7.33	Substantial Adverse	19.2	22.9	3.69	Slight Adverse
1092_Barry 2B		309167	169075	9.4	28.2	24.7	29.5	4.83	Moderate Adverse	17.2	19.7	2.42	Negligible
1103_Barry 2B		309163	169072	14.4	26.4	23.0	26.7	3.64	Slight Adverse	16.3	18.1	1.82	Negligible
1114_Barry 2B		309159	169069	19.4	25.4	22.1	25.0	2.94	Slight Adverse	15.7	17.2	1.47	Negligible
1125_Barry 2B		309155	169065	24.4	24.6	21.4	23.9	2.47	Slight Adverse	15.3	16.5	1.23	Negligible
1136_Barry 2B		309152	169062	29.4	24.1	20.9	23.1	2.13	Slight Adverse	15.0	16.1	1.06	Negligible
1147_Barry 2B		309148	169059	34.4	23.7	20.6	22.4	1.87	Negligible	14.8	15.7	0.93	Negligible
1158_Barry 2B		309144	169055	39.4	23.4	20.3	22.0	1.66	Negligible	14.6	15.5	0.83	Negligible
1169_Barry 2B		309141	169052	44.4	23.2	20.1	21.6	1.50	Negligible	14.5	15.2	0.74	Negligible
1170_Barry 2B		309137	169048	49.4	23.0	19.9	21.2	1.36	Negligible	14.4	15.1	0.68	Negligible
1181_Barry 2B		309133	169045	54.4	22.8	19.7	21.0	1.25	Negligible	14.3	14.9	0.62	Negligible
1192_Barry 2B		309130	169042	59.4	22.6	19.6	20.7	1.16	Negligible	14.2	14.8	0.57	Negligible
1203_Barry 2B		309126	169038	64.4	22.5	19.5	20.5	1.07	Negligible	14.1	14.7	0.53	Negligible
1214_Barry 2B		309122	169035	69.4	22.4	19.4	20.4	1.00	Negligible	14.1	14.6	0.49	Negligible
1225_Barry 2B		309118	169032	74.4	22.3	19.3	20.2	0.94	Negligible	14.0	14.5	0.46	Negligible
1236_Barry 2B		309115	169028	79.4	22.2	19.2	20.1	0.88	Negligible	14.0	14.4	0.43	Negligible
1247_Barry 2B		309111	169025	84.4	22.2	19.1	20.0	0.83	Negligible	13.9	14.3	0.41	Negligible
1258_Barry 2B		309107	169022	89.4	22.1	19.1	19.9	0.78	Negligible	13.9	14.3	0.39	Negligible
1269_Barry 2B		309104	169018	94.4	22.0	19.0	19.8	0.74	Negligible	13.9	14.2	0.36	Negligible
1270_Barry 2B		309100	169015	99.4	22.0	19.0	19.7	0.70	Negligible	13.8	14.2	0.35	Negligible
1281_Barry 2B		309092	169008	109.4	21.9	18.9	19.5	0.64	Negligible	13.8	14.1	0.31	Negligible
1292_Barry 2B		309085	169002	119.4	21.8	18.8	19.4	0.59	Negligible	13.7	14.0	0.29	Negligible
1303_Barry 2B		309078	168995	129.4	21.7	18.8	19.3	0.54	Negligible	13.7	14.0	0.26	Negligible
1314_Barry 2B		309070	168988	139.4	21.7	18.7	19.2	0.50	Negligible	13.7	13.9	0.24	Negligible
1325_Barry 2B	309063	168981	149.4	21.6	18.7	19.1	0.46	Negligible	13.6	13.9	0.23	Negligible	
1336_Barry 2B	309055	168975	159.4	21.6	18.6	19.0	0.43	Negligible	13.6	13.8	0.21	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1347_Barry 2B	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309048	168968	169.4	21.5	18.6	19.0	0.41	Negligible	13.6	13.8	0.20	Negligible
1359_Barry 2C		309288	168953	3.6	30.4	26.7	37.6	10.93	Substantial Adverse	18.5	24.2	5.78	Slight Adverse
1360_Barry 2C		309285	168950	8.6	27.7	24.2	30.5	6.28	Substantial Adverse	17.0	20.2	3.26	Slight Adverse
1371_Barry 2C		309281	168947	13.6	26.2	22.8	27.3	4.47	Moderate Adverse	16.2	18.5	2.30	Negligible
1382_Barry 2C		309277	168943	18.6	25.3	22.0	25.5	3.48	Slight Adverse	15.7	17.4	1.78	Negligible
1393_Barry 2C		309274	168940	23.6	24.7	21.4	24.3	2.85	Slight Adverse	15.3	16.8	1.45	Negligible
1404_Barry 2C		309270	168937	28.6	24.2	21.0	23.4	2.41	Slight Adverse	15.0	16.3	1.22	Negligible
1415_Barry 2C		309266	168933	33.6	23.8	20.7	22.7	2.08	Slight Adverse	14.9	15.9	1.05	Negligible
1426_Barry 2C		309262	168930	38.6	23.5	20.4	22.2	1.83	Negligible	14.7	15.6	0.92	Negligible
1437_Barry 2C		309259	168926	43.6	23.3	20.2	21.8	1.64	Negligible	14.6	15.4	0.82	Negligible
1448_Barry 2C		309255	168923	48.6	23.1	20.0	21.5	1.48	Negligible	14.5	15.2	0.74	Negligible
1459_Barry 2C		309251	168920	53.6	22.9	19.9	21.2	1.35	Negligible	14.4	15.0	0.67	Negligible
1460_Barry 2C		309248	168916	58.6	22.8	19.7	21.0	1.23	Negligible	14.3	14.9	0.62	Negligible
1471_Barry 2C		309244	168913	63.6	22.7	19.6	20.8	1.14	Negligible	14.2	14.8	0.57	Negligible
1482_Barry 2C		309240	168909	68.6	22.6	19.5	20.6	1.06	Negligible	14.2	14.7	0.53	Negligible
1493_Barry 2C		309237	168906	73.6	22.5	19.4	20.4	0.99	Negligible	14.1	14.6	0.49	Negligible
1504_Barry 2C		309233	168903	78.6	22.4	19.4	20.3	0.92	Negligible	14.1	14.5	0.46	Negligible
1515_Barry 2C		309229	168899	83.6	22.3	19.3	20.2	0.87	Negligible	14.0	14.5	0.43	Negligible
1526_Barry 2C		309226	168896	88.6	22.3	19.2	20.1	0.82	Negligible	14.0	14.4	0.40	Negligible
1537_Barry 2C		309222	168893	93.6	22.2	19.2	20.0	0.77	Negligible	14.0	14.4	0.38	Negligible
1548_Barry 2C	309218	168889	98.6	22.2	19.1	19.9	0.73	Negligible	13.9	14.3	0.36	Negligible	
1559_Barry 2C	309211	168882	108.6	22.1	19.1	19.7	0.66	Negligible	13.9	14.2	0.32	Negligible	
1560_Barry 2C	309204	168876	118.6	22.0	19.0	19.6	0.60	Negligible	13.9	14.1	0.29	Negligible	
1572_Barry 3A	Barry Woodlands SSSI (Pencoetre Wood, South)	312545	170847	3.9	63.9	54.2	46.9	-7.26	Substantial Beneficial	35.2	30.9	-4.31	Substantial Beneficial
1583_Barry 3A		312549	170845	8.9	50.8	42.9	38.0	-4.89	Substantial Beneficial	28.3	25.3	-2.93	Slight Beneficial
1594_Barry 3A		312553	170842	13.9	44.6	37.5	33.8	-3.76	Substantial	25.0	22.7	-2.26	Slight Beneficial

Chapter 5: Air Quality

Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
	of A4050)								Beneficial				
1605_Barry 3A		312558	170840	18.9	40.9	34.4	31.3	-3.08	Substantial Beneficial	23.0	21.2	-1.86	Negligible
1616_Barry 3A		312562	170837	23.9	38.5	32.3	29.7	-2.62	Moderate Beneficial	21.7	20.1	-1.59	Negligible
1627_Barry 3A		312566	170835	28.9	36.8	30.8	28.5	-2.29	Moderate Beneficial	20.8	19.4	-1.39	Negligible
1638_Barry 3A		312571	170832	33.9	35.6	29.7	27.7	-2.04	Moderate Beneficial	20.1	18.9	-1.24	Negligible
1649_Barry 3A		312575	170830	38.9	34.7	28.9	27.1	-1.84	Moderate Beneficial	19.6	18.5	-1.12	Negligible
1650_Barry 3A		312579	170827	43.9	33.9	28.3	26.6	-1.68	Slight Beneficial	19.2	18.2	-1.03	Negligible
1661_Barry 3A		312584	170825	48.9	33.3	27.7	26.2	-1.55	Slight Beneficial	18.9	18.0	-0.95	Negligible
1672_Barry 3A		312588	170822	53.9	32.9	27.3	25.9	-1.43	Negligible	18.6	17.8	-0.88	Negligible
1683_Barry 3A		312592	170819	58.9	32.5	27.0	25.7	-1.34	Negligible	18.4	17.6	-0.82	Negligible
1694_Barry 3A		312597	170817	63.9	32.2	26.7	25.5	-1.25	Negligible	18.3	17.5	-0.77	Negligible
1705_Barry 3A		312601	170814	68.9	32.0	26.5	25.4	-1.18	Negligible	18.1	17.4	-0.73	Negligible
1716_Barry 3A		312605	170812	73.9	31.9	26.4	25.3	-1.11	Negligible	18.0	17.3	-0.69	Negligible
1727_Barry 3A		312610	170809	78.9	31.8	26.3	25.2	-1.06	Negligible	17.9	17.3	-0.66	Negligible
1738_Barry 3A		312614	170807	83.9	31.7	26.2	25.2	-1.00	Negligible	17.9	17.2	-0.63	Negligible
1749_Barry 3A		312618	170804	88.9	31.7	26.1	25.2	-0.96	Negligible	17.8	17.2	-0.60	Negligible
1750_Barry 3A		312622	170802	93.9	31.7	26.1	25.2	-0.91	Negligible	17.8	17.2	-0.58	Negligible
1761_Barry 3A		312627	170799	98.9	31.8	26.2	25.3	-0.87	Negligible	17.8	17.3	-0.56	Negligible
1772_Barry 3A		312635	170794	108.9	32.1	26.3	25.5	-0.81	Negligible	17.9	17.4	-0.52	Negligible
1783_Barry 3A		312644	170789	118.9	32.6	26.6	25.9	-0.75	Negligible	18.0	17.5	-0.49	Negligible
1794_Barry 3A	312653	170784	128.9	33.3	27.1	26.4	-0.70	Negligible	18.3	17.8	-0.47	Negligible	
1805_Barry 3A	312661	170779	138.9	34.3	27.7	27.1	-0.66	Slight Beneficial	18.6	18.1	-0.45	Negligible	
1816_Barry 3A	312670	170774	148.9	35.6	28.7	28.0	-0.63	Slight Beneficial	19.1	18.6	-0.44	Negligible	
1827_Barry 3A	312679	170769	158.9	37.6	30.0	29.4	-0.60	Slight Beneficial	19.8	19.4	-0.43	Negligible	
1838_Barry 3A	312687	170764	168.9	40.3	31.9	31.3	-0.57	Slight Beneficial	20.8	20.4	-0.42	Negligible	
1849_Barry 3A	312696	170759	178.9	44.4	34.8	34.2	-0.55	Slight Beneficial	22.3	21.9	-0.42	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1850_Barry 3A	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312705	170754	188.9	51.5	39.7	39.2	-0.54	Slight Beneficial	24.9	24.5	-0.43	Negligible
1861_Barry 3A		312713	170749	198.9	66.7	50.4	49.8	-0.54	Slight Beneficial	30.5	30.1	-0.42	Slight Beneficial
1872_Barry 3B		312484	170754	1.2	72.1	61.8	52.8	-8.99	Substantial Beneficial	40.1	34.7	-5.33	Substantial Beneficial
1883_Barry 3B		312488	170751	6.2	53.8	45.9	40.2	-5.72	Substantial Beneficial	30.3	26.9	-3.43	Slight Beneficial
1894_Barry 3B		312493	170749	11.2	44.8	38.2	34.1	-4.11	Substantial Beneficial	25.6	23.1	-2.49	Slight Beneficial
1905_Barry 3B		312497	170746	16.2	40.0	34.0	30.7	-3.24	Substantial Beneficial	23.0	21.0	-1.97	Negligible
1916_Barry 3B		312501	170744	21.2	36.9	31.3	28.7	-2.68	Moderate Beneficial	21.3	19.7	-1.63	Negligible
1927_Barry 3B		312506	170741	26.2	34.8	29.5	27.2	-2.30	Moderate Beneficial	20.2	18.8	-1.40	Negligible
1938_Barry 3B		312510	170739	31.2	33.3	28.2	26.2	-2.02	Slight Beneficial	19.4	18.2	-1.24	Negligible
1949_Barry 3B		312514	170736	36.2	32.1	27.2	25.4	-1.81	Slight Beneficial	18.8	17.7	-1.11	Negligible
1950_Barry 3B		312519	170734	41.2	31.2	26.4	24.8	-1.63	Slight Beneficial	18.3	17.3	-1.00	Negligible
1961_Barry 3B		312523	170731	46.2	30.5	25.8	24.3	-1.50	Negligible	17.9	17.0	-0.92	Negligible
1972_Barry 3B		312527	170729	51.2	29.9	25.3	23.9	-1.38	Negligible	17.6	16.7	-0.85	Negligible
1983_Barry 3B		312532	170726	56.2	29.3	24.8	23.6	-1.28	Negligible	17.3	16.5	-0.79	Negligible
1994_Barry 3B		312536	170724	61.2	28.9	24.5	23.3	-1.20	Negligible	17.1	16.3	-0.74	Negligible
2005_Barry 3B		312540	170721	66.2	28.5	24.1	23.0	-1.12	Negligible	16.9	16.2	-0.69	Negligible
2016_Barry 3B		312544	170719	71.2	28.2	23.9	22.8	-1.06	Negligible	16.7	16.1	-0.65	Negligible
2027_Barry 3B		312549	170716	76.2	28.0	23.6	22.6	-1.00	Negligible	16.6	15.9	-0.62	Negligible
2038_Barry 3B		312553	170714	81.2	27.7	23.4	22.5	-0.95	Negligible	16.4	15.8	-0.59	Negligible
2049_Barry 3B		312557	170711	86.2	27.5	23.2	22.3	-0.91	Negligible	16.3	15.7	-0.56	Negligible
2050_Barry 3B	312562	170709	91.2	27.3	23.1	22.2	-0.87	Negligible	16.2	15.7	-0.54	Negligible	
2061_Barry 3B	312566	170706	96.2	27.2	22.9	22.1	-0.83	Negligible	16.1	15.6	-0.51	Negligible	
2072_Barry 3B	312570	170704	101.2	27.0	22.8	22.0	-0.79	Negligible	16.0	15.5	-0.49	Negligible	
2083_Barry 3B	312579	170699	111.2	26.8	22.6	21.9	-0.73	Negligible	15.9	15.4	-0.46	Negligible	
2094_Barry 3B	312588	170694	121.2	26.6	22.4	21.8	-0.68	Negligible	15.8	15.4	-0.43	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
2105_Barry 3B		312596	170689	131.2	26.5	22.3	21.7	-0.64	Negligible	15.7	15.3	-0.40	Negligible
2116_Barry 3B		312605	170683	141.2	26.4	22.2	21.6	-0.60	Negligible	15.7	15.3	-0.38	Negligible
2127_Barry 3B		312614	170678	151.2	26.4	22.2	21.6	-0.56	Negligible	15.6	15.2	-0.36	Negligible
2138_Barry 3B		312622	170673	161.2	26.3	22.1	21.6	-0.53	Negligible	15.6	15.2	-0.34	Negligible
2149_Barry 3B		312631	170668	171.2	26.4	22.1	21.6	-0.51	Negligible	15.6	15.2	-0.32	Negligible
2150_Barry 3B		312639	170663	181.2	26.4	22.1	21.6	-0.48	Negligible	15.5	15.2	-0.31	Negligible
2161_Barry 3B		312648	170658	191.2	26.4	22.1	21.7	-0.46	Negligible	15.6	15.3	-0.30	Negligible
2172_Barry 3B		312657	170653	201.2	26.5	22.2	21.7	-0.44	Negligible	15.6	15.3	-0.29	Negligible
2183_Barry 3C	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312439	170680	1.9	70.5	60.5	51.7	-8.77	Substantial Beneficial	39.3	34.1	-5.21	Substantial Beneficial
2194_Barry 3C		312443	170677	6.9	52.1	44.5	39.0	-5.48	Substantial Beneficial	29.5	26.2	-3.30	Slight Beneficial
2205_Barry 3C		312448	170675	11.9	43.7	37.3	33.3	-3.98	Substantial Beneficial	25.1	22.7	-2.42	Slight Beneficial
2216_Barry 3C		312452	170672	16.9	39.1	33.4	30.2	-3.16	Substantial Beneficial	22.6	20.7	-1.92	Negligible
2227_Barry 3C		312456	170670	21.9	36.2	30.8	28.2	-2.63	Moderate Beneficial	21.1	19.5	-1.60	Negligible
2238_Barry 3C		312460	170667	26.9	34.1	29.0	26.8	-2.25	Slight Beneficial	20.0	18.6	-1.38	Negligible
2249_Barry 3C		312465	170664	31.9	32.6	27.7	25.8	-1.98	Slight Beneficial	19.2	17.9	-1.21	Negligible
2250_Barry 3C		312469	170662	36.9	31.4	26.8	25.0	-1.77	Slight Beneficial	18.5	17.5	-1.09	Negligible
2261_Barry 3C		312473	170659	41.9	30.5	26.0	24.4	-1.60	Slight Beneficial	18.1	17.1	-0.98	Negligible
2272_Barry 3C		312477	170657	46.9	29.8	25.3	23.9	-1.46	Negligible	17.7	16.8	-0.90	Negligible
2283_Barry 3C		312482	170654	51.9	29.2	24.8	23.5	-1.35	Negligible	17.3	16.5	-0.83	Negligible
2294_Barry 3C		312486	170651	56.9	28.6	24.4	23.1	-1.25	Negligible	17.1	16.3	-0.77	Negligible
2305_Barry 3C		312490	170649	61.9	28.2	24.0	22.8	-1.17	Negligible	16.8	16.1	-0.72	Negligible
2316_Barry 3C		312495	170646	66.9	27.8	23.6	22.5	-1.10	Negligible	16.6	15.9	-0.68	Negligible
2327_Barry 3C		312499	170644	71.9	27.5	23.4	22.3	-1.03	Negligible	16.4	15.8	-0.64	Negligible
2338_Barry 3C		312503	170641	76.9	27.2	23.1	22.1	-0.98	Negligible	16.3	15.7	-0.60	Negligible
2349_Barry 3C	312507	170639	81.9	26.9	22.9	22.0	-0.93	Negligible	16.1	15.6	-0.57	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
2350_Barry 3C		312512	170636	86.9	26.7	22.7	21.8	-0.88	Negligible	16.0	15.5	-0.55	Negligible
2361_Barry 3C		312516	170633	91.9	26.5	22.5	21.7	-0.84	Negligible	15.9	15.4	-0.52	Negligible
2372_Barry 3C		312520	170631	96.9	26.3	22.4	21.5	-0.81	Negligible	15.8	15.3	-0.50	Negligible
2383_Barry 3C		312525	170628	101.9	26.2	22.2	21.4	-0.77	Negligible	15.7	15.2	-0.48	Negligible
2394_Barry 3C		312533	170623	111.9	25.9	22.0	21.3	-0.71	Negligible	15.6	15.1	-0.44	Negligible
2405_Barry 3C		312542	170618	121.9	25.7	21.8	21.1	-0.66	Negligible	15.4	15.0	-0.41	Negligible
2416_Barry 3C		312550	170613	131.9	25.5	21.6	21.0	-0.62	Negligible	15.3	14.9	-0.39	Negligible
2427_Barry 3C		312559	170607	141.9	25.3	21.5	20.9	-0.58	Negligible	15.2	14.9	-0.36	Negligible
2438_Barry 3C		312567	170602	151.9	25.2	21.3	20.8	-0.55	Negligible	15.2	14.8	-0.34	Negligible
2449_Barry 3C		312576	170597	161.9	25.1	21.2	20.7	-0.52	Negligible	15.1	14.8	-0.33	Negligible
2450_Barry 3C		312584	170592	171.9	25.0	21.2	20.7	-0.49	Negligible	15.1	14.7	-0.31	Negligible
2461_Barry 3C		312593	170587	181.9	24.9	21.1	20.6	-0.47	Negligible	15.0	14.7	-0.30	Negligible
2472_Barry 3C		312601	170581	191.9	24.9	21.0	20.6	-0.45	Negligible	15.0	14.7	-0.28	Negligible
2483_Barry 3C		312610	170576	201.9	24.8	21.0	20.6	-0.43	Negligible	14.9	14.7	-0.27	Negligible
2494_Barry 3D		Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312718	170717	16.4	41.5	32.7	32.2	-0.46	Slight Beneficial	21.2	20.8	-0.37
2505_Barry 3D	312714		170714	21.4	38.1	30.3	29.8	-0.45	Slight Beneficial	19.9	19.5	-0.35	Negligible
2516_Barry 3D	312709		170712	26.4	35.7	28.6	28.1	-0.45	Slight Beneficial	19.0	18.7	-0.34	Negligible
2527_Barry 3D	312705		170709	31.4	33.9	27.4	26.9	-0.45	Negligible	18.3	18.0	-0.33	Negligible
2538_Barry 3D	312701		170707	36.4	32.6	26.4	26.0	-0.45	Negligible	17.8	17.5	-0.33	Negligible
2549_Barry 3D	312697		170704	41.4	31.5	25.7	25.2	-0.45	Negligible	17.5	17.1	-0.32	Negligible
2550_Barry 3D	312692		170702	46.4	30.7	25.1	24.6	-0.45	Negligible	17.1	16.8	-0.32	Negligible
2561_Barry 3D	312688		170699	51.4	30.0	24.6	24.2	-0.45	Negligible	16.9	16.6	-0.31	Negligible
2572_Barry 3D	312684		170696	56.4	29.4	24.2	23.8	-0.45	Negligible	16.7	16.3	-0.31	Negligible
2583_Barry 3D	312679		170694	61.4	28.9	23.9	23.4	-0.46	Negligible	16.5	16.2	-0.31	Negligible
2594_Barry 3D	312675		170691	66.4	28.5	23.6	23.1	-0.46	Negligible	16.3	16.0	-0.31	Negligible
2605_Barry 3D	312671		170689	71.4	28.1	23.3	22.9	-0.46	Negligible	16.2	15.9	-0.31	Negligible
2616_Barry 3D	312667		170686	76.4	27.8	23.1	22.6	-0.46	Negligible	16.1	15.8	-0.31	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)										
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance	
2627_Barry 3D		312662	170683	81.4	27.5	22.9	22.4	-0.47	Negligible	16.0	15.7	-0.31	Negligible	
2638_Barry 3D		312658	170681	86.4	27.3	22.7	22.3	-0.47	Negligible	15.9	15.6	-0.31	Negligible	
2649_Barry 3D		312654	170678	91.4	27.1	22.6	22.1	-0.48	Negligible	15.8	15.5	-0.31	Negligible	
2650_Barry 3D		312650	170676	96.4	26.9	22.5	22.0	-0.48	Negligible	15.7	15.4	-0.31	Negligible	
2661_Barry 3D		312645	170673	101.4	26.7	22.3	21.9	-0.48	Negligible	15.7	15.4	-0.31	Negligible	
2672_Barry 3D		312641	170670	106.4	26.6	22.2	21.8	-0.49	Negligible	15.6	15.3	-0.32	Negligible	
2683_Barry 3D		312637	170668	111.4	26.4	22.2	21.7	-0.49	Negligible	15.6	15.3	-0.32	Negligible	
2694_Barry 3D		312632	170665	116.4	26.3	22.1	21.6	-0.50	Negligible	15.5	15.2	-0.32	Negligible	
2705_Barry 3D		312624	170660	126.4	26.1	21.9	21.4	-0.51	Negligible	15.5	15.1	-0.32	Negligible	
2716_Barry 3D		312615	170655	136.4	25.9	21.8	21.3	-0.52	Negligible	15.4	15.1	-0.33	Negligible	
2727_Barry 3D		312607	170650	146.4	25.8	21.8	21.2	-0.53	Negligible	15.4	15.0	-0.34	Negligible	
2738_Barry 3D		312598	170645	156.4	25.7	21.7	21.2	-0.54	Negligible	15.4	15.0	-0.34	Negligible	
2749_Barry 3D		312590	170639	166.4	25.6	21.7	21.1	-0.56	Negligible	15.3	15.0	-0.35	Negligible	
2750_Barry 3D		312581	170634	176.4	25.6	21.6	21.1	-0.57	Negligible	15.3	15.0	-0.36	Negligible	
2761_Barry 3D		312572	170629	186.4	25.5	21.6	21.0	-0.59	Negligible	15.3	15.0	-0.37	Negligible	
2772_Barry 3D		312564	170624	196.4	25.5	21.6	21.0	-0.60	Negligible	15.3	15.0	-0.38	Negligible	
2783_Barry 3D		312555	170619	206.4	25.5	21.6	21.0	-0.62	Negligible	15.3	15.0	-0.38	Negligible	
2794_Barry 3D		312547	170614	216.4	25.5	21.7	21.0	-0.63	Negligible	15.4	15.0	-0.40	Negligible	
2805_Barry 3E		Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312779	170633	7.4	55.0	42.0	41.7	-0.36	Slight Beneficial	26.1	25.8	-0.35	Negligible
2816_Barry 3E			312775	170631	12.4	45.7	35.6	35.2	-0.34	Slight Beneficial	22.7	22.4	-0.32	Negligible
2827_Barry 3E	312770		170628	17.4	40.6	32.0	31.6	-0.34	Slight Beneficial	20.8	20.5	-0.30	Negligible	
2838_Barry 3E	312766		170626	22.4	37.3	29.7	29.3	-0.33	Slight Beneficial	19.6	19.3	-0.29	Negligible	
2849_Barry 3E	312762		170623	27.4	35.0	28.0	27.7	-0.33	Slight Beneficial	18.7	18.4	-0.28	Negligible	
2850_Barry 3E	312757		170621	32.4	33.3	26.8	26.5	-0.32	Negligible	18.0	17.8	-0.27	Negligible	
2861_Barry 3E	312753		170618	37.4	32.0	25.9	25.6	-0.32	Negligible	17.6	17.3	-0.26	Negligible	
2872_Barry 3E	312749		170616	42.4	31.0	25.2	24.9	-0.32	Negligible	17.2	16.9	-0.25	Negligible	
2883_Barry 3E	312744		170613	47.4	30.1	24.6	24.3	-0.32	Negligible	16.8	16.6	-0.25	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
2894_Barry 3E		312740	170611	52.4	29.4	24.1	23.8	-0.32	Negligible	16.6	16.3	-0.24	Negligible
2905_Barry 3E		312736	170608	57.4	28.8	23.7	23.4	-0.32	Negligible	16.4	16.1	-0.24	Negligible
2916_Barry 3E		312731	170606	62.4	28.3	23.4	23.1	-0.32	Negligible	16.2	15.9	-0.24	Negligible
2927_Barry 3E		312727	170603	67.4	27.9	23.1	22.8	-0.32	Negligible	16.0	15.8	-0.23	Negligible
2938_Barry 3E		312723	170601	72.4	27.5	22.8	22.5	-0.32	Negligible	15.9	15.6	-0.23	Negligible
2949_Barry 3E		312718	170598	77.4	27.2	22.6	22.3	-0.33	Negligible	15.8	15.5	-0.23	Negligible
2950_Barry 3E		312714	170596	82.4	26.9	22.4	22.1	-0.33	Negligible	15.7	15.4	-0.23	Negligible
2961_Barry 3E		312710	170593	87.4	26.7	22.2	21.9	-0.33	Negligible	15.6	15.3	-0.23	Negligible
2972_Barry 3E		312705	170591	92.4	26.4	22.1	21.7	-0.33	Negligible	15.5	15.2	-0.23	Negligible
2983_Barry 3E		312701	170588	97.4	26.2	21.9	21.6	-0.33	Negligible	15.4	15.2	-0.23	Negligible
2994_Barry 3E		312696	170586	102.4	26.1	21.8	21.5	-0.33	Negligible	15.3	15.1	-0.23	Negligible
3005_Barry 3E		312692	170583	107.4	25.9	21.7	21.3	-0.34	Negligible	15.3	15.0	-0.23	Negligible
3016_Barry 3E		312683	170579	117.4	25.6	21.5	21.1	-0.34	Negligible	15.2	14.9	-0.23	Negligible
3027_Barry 3E		312675	170574	127.4	25.3	21.3	21.0	-0.34	Negligible	15.1	14.8	-0.23	Negligible
3038_Barry 3E		312666	170569	137.4	25.1	21.2	20.8	-0.35	Negligible	15.0	14.8	-0.23	Negligible
3049_Barry 3E		312657	170564	147.4	25.0	21.0	20.7	-0.35	Negligible	14.9	14.7	-0.23	Negligible
3050_Barry 3E		312649	170559	157.4	24.8	20.9	20.6	-0.36	Negligible	14.9	14.7	-0.23	Negligible
3061_Barry 3E		312640	170554	167.4	24.7	20.9	20.5	-0.36	Negligible	14.8	14.6	-0.23	Negligible
3072_Barry 3E		312631	170549	177.4	24.6	20.8	20.4	-0.37	Negligible	14.8	14.6	-0.24	Negligible
3083_Barry 3E		312623	170544	187.4	24.5	20.7	20.4	-0.37	Negligible	14.8	14.5	-0.24	Negligible
3094_Barry 3E	312614	170539	197.4	24.4	20.7	20.3	-0.38	Negligible	14.8	14.5	-0.24	Negligible	
3105_Barry 3E	312605	170534	207.4	24.4	20.7	20.3	-0.39	Negligible	14.7	14.5	-0.25	Negligible	
3116_Barry 4A	Barry Woodlands SSSI (Pencoetre Wood, East of A4231)	312734	170789	20.5	42.3	33.5	32.9	-0.56	Slight Beneficial	21.8	21.3	-0.54	Negligible
3127_Barry 4A		312738	170792	25.5	39.3	31.3	30.7	-0.54	Slight Beneficial	20.6	20.1	-0.49	Negligible
3138_Barry 4A		312743	170794	30.5	37.0	29.7	29.2	-0.53	Slight Beneficial	19.7	19.3	-0.45	Negligible
3149_Barry 4A		312747	170796	35.5	35.3	28.4	27.9	-0.51	Slight Beneficial	19.0	18.6	-0.43	Negligible
3150_Barry 4A		312751	170799	40.5	33.9	27.4	26.9	-0.50	Negligible	18.5	18.1	-0.40	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
3161_Barry 4A		312756	170801	45.5	32.8	26.6	26.1	-0.50	Negligible	18.0	17.6	-0.39	Negligible
3172_Barry 4A		312760	170804	50.5	31.8	25.9	25.4	-0.49	Negligible	17.6	17.3	-0.37	Negligible
3183_Barry 4A		312764	170806	55.5	31.0	25.4	24.9	-0.48	Negligible	17.3	16.9	-0.36	Negligible
3194_Barry 4A		312769	170809	60.5	30.3	24.9	24.4	-0.47	Negligible	17.0	16.7	-0.35	Negligible
3205_Barry 4A		312773	170811	65.5	29.7	24.4	23.9	-0.47	Negligible	16.8	16.4	-0.33	Negligible
3216_Barry 4A		312777	170814	70.5	29.1	24.0	23.6	-0.46	Negligible	16.6	16.2	-0.33	Negligible
3227_Barry 4A		312782	170816	75.5	28.7	23.7	23.2	-0.46	Negligible	16.4	16.1	-0.32	Negligible
3238_Barry 4A		312786	170819	80.5	28.2	23.4	22.9	-0.45	Negligible	16.2	15.9	-0.31	Negligible
3249_Barry 4A		312790	170821	85.5	27.9	23.1	22.7	-0.44	Negligible	16.1	15.8	-0.30	Negligible
3250_Barry 4A		312795	170824	90.5	27.5	22.9	22.4	-0.44	Negligible	15.9	15.6	-0.29	Negligible
3261_Barry 4A		312799	170826	95.5	27.2	22.6	22.2	-0.43	Negligible	15.8	15.5	-0.29	Negligible
3272_Barry 4A		312803	170829	100.5	26.9	22.4	22.0	-0.43	Negligible	15.7	15.4	-0.28	Negligible
3283_Barry 4A		312808	170831	105.5	26.7	22.2	21.8	-0.42	Negligible	15.6	15.3	-0.28	Negligible
3294_Barry 4A		312812	170834	110.5	26.4	22.1	21.6	-0.42	Negligible	15.5	15.2	-0.27	Negligible
3305_Barry 4A		312816	170836	115.5	26.2	21.9	21.5	-0.41	Negligible	15.4	15.1	-0.27	Negligible
3316_Barry 4A		312821	170839	120.5	26.0	21.7	21.3	-0.41	Negligible	15.3	15.0	-0.26	Negligible
3327_Barry 4A		312829	170844	130.5	25.6	21.5	21.1	-0.40	Negligible	15.1	14.9	-0.25	Negligible
3338_Barry 4A		312838	170849	140.5	25.3	21.2	20.8	-0.39	Negligible	15.0	14.8	-0.24	Negligible
3349_Barry 4A		312847	170854	150.5	25.0	21.0	20.6	-0.38	Negligible	14.9	14.7	-0.24	Negligible
3350_Barry 4A		312855	170859	160.5	24.7	20.8	20.5	-0.37	Negligible	14.8	14.6	-0.23	Negligible
3361_Barry 4A		312864	170864	170.5	24.5	20.7	20.3	-0.36	Negligible	14.7	14.5	-0.22	Negligible
3372_Barry 4A		312873	170869	180.5	24.3	20.5	20.2	-0.36	Negligible	14.6	14.4	-0.22	Negligible
3383_Barry 4A		312881	170874	190.5	24.1	20.4	20.0	-0.35	Negligible	14.5	14.3	-0.21	Negligible
3394_Barry 4A		312890	170879	200.5	24.0	20.3	19.9	-0.34	Negligible	14.5	14.3	-0.20	Negligible
3405_Barry 4A		312899	170884	210.5	23.8	20.1	19.8	-0.33	Negligible	14.4	14.2	-0.20	Negligible
3416_Barry 4A		312907	170889	220.5	23.7	20.0	19.7	-0.32	Negligible	14.3	14.1	-0.19	Negligible
3427_Barry 4B	Barry	312798	170655	8.3	58.8	45.2	44.8	-0.44	Slight Beneficial	28.4	27.7	-0.72	Slight Beneficial

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
3438_Barry 4B	Woodlands SSSI (Pencoetre Wood, East of A4231)	312802	170657	13.3	49.5	38.5	38.2	-0.40	Slight Beneficial	24.6	24.1	-0.55	Negligible
3449_Barry 4B		312807	170660	18.3	44.0	34.6	34.2	-0.37	Slight Beneficial	22.4	22.0	-0.46	Negligible
3450_Barry 4B		312811	170662	23.3	40.4	32.0	31.6	-0.35	Slight Beneficial	20.9	20.5	-0.40	Negligible
3461_Barry 4B		312816	170664	28.3	37.7	30.1	29.8	-0.34	Slight Beneficial	19.9	19.5	-0.36	Negligible
3472_Barry 4B		312820	170667	33.3	35.7	28.7	28.3	-0.33	Slight Beneficial	19.1	18.8	-0.33	Negligible
3483_Barry 4B		312825	170669	38.3	34.2	27.6	27.2	-0.32	Slight Beneficial	18.5	18.2	-0.31	Negligible
3494_Barry 4B		312829	170671	43.3	32.9	26.7	26.4	-0.31	Negligible	18.0	17.7	-0.29	Negligible
3505_Barry 4B		312833	170674	48.3	31.9	25.9	25.6	-0.31	Negligible	17.6	17.3	-0.28	Negligible
3516_Barry 4B		312838	170676	53.3	31.0	25.3	25.0	-0.30	Negligible	17.3	17.0	-0.27	Negligible
3527_Barry 4B		312842	170678	58.3	30.3	24.8	24.5	-0.30	Negligible	17.0	16.7	-0.26	Negligible
3538_Barry 4B		312847	170681	63.3	29.7	24.3	24.0	-0.30	Negligible	16.7	16.5	-0.25	Negligible
3549_Barry 4B		312851	170683	68.3	29.1	24.0	23.7	-0.29	Negligible	16.5	16.3	-0.24	Negligible
3550_Barry 4B		312855	170685	73.3	28.6	23.6	23.3	-0.29	Negligible	16.3	16.1	-0.23	Negligible
3561_Barry 4B		312860	170688	78.3	28.2	23.3	23.0	-0.29	Negligible	16.1	15.9	-0.23	Negligible
3572_Barry 4B		312864	170690	83.3	27.8	23.0	22.7	-0.28	Negligible	16.0	15.8	-0.22	Negligible
3583_Barry 4B		312869	170693	88.3	27.5	22.8	22.5	-0.28	Negligible	15.9	15.6	-0.22	Negligible
3594_Barry 4B		312873	170695	93.3	27.2	22.5	22.3	-0.28	Negligible	15.7	15.5	-0.21	Negligible
3605_Barry 4B		312878	170697	98.3	26.9	22.3	22.1	-0.28	Negligible	15.6	15.4	-0.21	Negligible
3616_Barry 4B		312882	170700	103.3	26.6	22.2	21.9	-0.27	Negligible	15.5	15.3	-0.20	Negligible
3627_Barry 4B		312886	170702	108.3	26.4	22.0	21.7	-0.27	Negligible	15.4	15.2	-0.20	Negligible
3638_Barry 4B		312895	170707	118.3	26.0	21.7	21.4	-0.27	Negligible	15.2	15.1	-0.19	Negligible
3649_Barry 4B		312904	170711	128.3	25.6	21.4	21.2	-0.26	Negligible	15.1	14.9	-0.19	Negligible
3650_Barry 4B		312913	170716	138.3	25.3	21.2	20.9	-0.26	Negligible	15.0	14.8	-0.18	Negligible
3661_Barry 4B		312922	170721	148.3	25.0	21.0	20.7	-0.26	Negligible	14.9	14.7	-0.18	Negligible
3672_Barry 4B		312931	170725	158.3	24.7	20.8	20.6	-0.25	Negligible	14.8	14.6	-0.17	Negligible
3683_Barry 4B		312939	170730	168.3	24.5	20.6	20.4	-0.25	Negligible	14.7	14.5	-0.17	Negligible
3694_Barry 4B		312948	170735	178.3	24.3	20.5	20.3	-0.24	Negligible	14.6	14.4	-0.16	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
3705_Barry 4B		312957	170739	188.3	24.1	20.4	20.1	-0.24	Negligible	14.5	14.4	-0.16	Negligible
3716_Barry 4B		312966	170744	198.3	24.0	20.2	20.0	-0.24	Negligible	14.5	14.3	-0.16	Negligible
3727_Barry 4B		312975	170749	208.3	23.8	20.1	19.9	-0.23	Negligible	14.4	14.2	-0.15	Negligible
3738_Barry 5A	Barry Woodlands SSSI (Lidmore Wood)	308726	169717	195.0	21.2	18.3	19.1	0.79	Negligible	13.4	13.8	0.41	Negligible
3749_Barry 5A		308729	169721	200.0	21.2	18.2	19.0	0.76	Negligible	13.4	13.8	0.39	Negligible
3750_Barry 5A		308732	169725	205.0	21.1	18.2	19.0	0.74	Negligible	13.4	13.8	0.38	Negligible
3761_Barry 5A		308734	169729	210.0	21.1	18.2	18.9	0.71	Negligible	13.4	13.7	0.36	Negligible
3772_Barry 5A		308737	169734	215.0	21.1	18.2	18.9	0.69	Negligible	13.4	13.7	0.35	Negligible
3783_Barry 5A		308740	169738	220.0	21.1	18.2	18.9	0.66	Negligible	13.4	13.7	0.34	Negligible
3794_Barry 5A		308743	169742	225.0	21.1	18.2	18.8	0.64	Negligible	13.4	13.7	0.33	Negligible
3805_Barry 5A		308746	169746	230.0	21.1	18.2	18.8	0.62	Negligible	13.3	13.7	0.32	Negligible
3816_Barry 5A		308749	169750	235.0	21.1	18.2	18.8	0.60	Negligible	13.3	13.6	0.31	Negligible
3827_Barry 5A		308751	169754	240.0	21.0	18.2	18.7	0.59	Negligible	13.3	13.6	0.30	Negligible
3838_Barry 5A		308754	169758	245.0	21.0	18.1	18.7	0.57	Negligible	13.3	13.6	0.29	Negligible
3849_Barry 5A		308757	169762	250.0	21.0	18.1	18.7	0.55	Negligible	13.3	13.6	0.28	Negligible
3850_Barry 5A		308760	169767	255.0	21.0	18.1	18.7	0.54	Negligible	13.3	13.6	0.27	Negligible
3861_Barry 5A		308763	169771	260.0	21.0	18.1	18.6	0.52	Negligible	13.3	13.6	0.27	Negligible
3872_Barry 5A		308766	169775	265.0	21.0	18.1	18.6	0.51	Negligible	13.3	13.6	0.26	Negligible
3883_Barry 5A		308768	169779	270.0	21.0	18.1	18.6	0.50	Negligible	13.3	13.6	0.25	Negligible
3894_Barry 5A		308771	169783	275.0	21.0	18.1	18.6	0.49	Negligible	13.3	13.5	0.25	Negligible
3905_Barry 5A		308774	169787	280.0	21.0	18.1	18.6	0.47	Negligible	13.3	13.5	0.24	Negligible
3916_Barry 5A		308777	169791	285.0	21.0	18.1	18.5	0.46	Negligible	13.3	13.5	0.23	Negligible
3927_Barry 5A		308780	169795	290.0	21.0	18.1	18.5	0.45	Negligible	13.3	13.5	0.23	Negligible
3938_Barry 5A		308783	169800	295.0	20.9	18.1	18.5	0.44	Negligible	13.3	13.5	0.22	Negligible
3949_Barry 5A		308788	169808	305.0	20.9	18.0	18.5	0.42	Negligible	13.3	13.5	0.21	Negligible
3950_Barry 5A		308794	169816	315.0	20.9	18.0	18.4	0.40	Negligible	13.3	13.5	0.20	Negligible
3961_Barry 5A	308799	169824	325.0	20.9	18.0	18.4	0.39	Negligible	13.3	13.4	0.19	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
3972_Barry 5A		308805	169833	335.0	20.9	18.0	18.4	0.37	Negligible	13.2	13.4	0.19	Negligible
3983_Barry 5A		308811	169841	345.0	20.9	18.0	18.4	0.36	Negligible	13.2	13.4	0.18	Negligible
3994_Barry 5A		308816	169849	355.0	20.9	18.0	18.3	0.34	Negligible	13.2	13.4	0.17	Negligible
4005_Barry 5A		308822	169857	365.0	20.9	18.0	18.3	0.33	Negligible	13.2	13.4	0.17	Negligible
4016_Barry 5A		308828	169866	375.0	20.9	18.0	18.3	0.32	Negligible	13.2	13.4	0.16	Negligible
4027_Barry 5A		308833	169874	385.0	20.8	18.0	18.3	0.31	Negligible	13.2	13.4	0.15	Negligible
4038_Barry 5A		308839	169882	395.0	20.8	18.0	18.3	0.30	Negligible	13.2	13.4	0.15	Negligible
4049_Barry 5B	Barry Woodlands SSSI (Lidmore Wood)	308665	169764	215.0	21.1	18.2	19.0	0.78	Negligible	13.4	13.8	0.40	Negligible
4050_Barry 5B		308668	169768	220.0	21.1	18.2	18.9	0.75	Negligible	13.4	13.7	0.39	Negligible
4061_Barry 5B		308671	169772	225.0	21.1	18.2	18.9	0.72	Negligible	13.4	13.7	0.37	Negligible
4072_Barry 5B		308673	169776	230.0	21.1	18.2	18.9	0.70	Negligible	13.3	13.7	0.36	Negligible
4083_Barry 5B		308676	169781	235.0	21.1	18.2	18.8	0.68	Negligible	13.3	13.7	0.35	Negligible
4094_Barry 5B		308679	169785	240.0	21.0	18.1	18.8	0.66	Negligible	13.3	13.7	0.34	Negligible
4105_Barry 5B		308682	169789	245.0	21.0	18.1	18.8	0.64	Negligible	13.3	13.7	0.33	Negligible
4116_Barry 5B		308685	169793	250.0	21.0	18.1	18.7	0.62	Negligible	13.3	13.6	0.32	Negligible
4127_Barry 5B		308688	169797	255.0	21.0	18.1	18.7	0.60	Negligible	13.3	13.6	0.31	Negligible
4138_Barry 5B		308690	169801	260.0	21.0	18.1	18.7	0.59	Negligible	13.3	13.6	0.30	Negligible
4149_Barry 5B		308693	169805	265.0	21.0	18.1	18.7	0.57	Negligible	13.3	13.6	0.29	Negligible
4150_Barry 5B		308696	169809	270.0	21.0	18.1	18.6	0.55	Negligible	13.3	13.6	0.28	Negligible
4161_Barry 5B		308699	169814	275.0	21.0	18.1	18.6	0.54	Negligible	13.3	13.6	0.28	Negligible
4172_Barry 5B		308702	169818	280.0	21.0	18.1	18.6	0.53	Negligible	13.3	13.6	0.27	Negligible
4183_Barry 5B		308705	169822	285.0	21.0	18.1	18.6	0.51	Negligible	13.3	13.5	0.26	Negligible
4194_Barry 5B		308707	169826	290.0	20.9	18.1	18.6	0.50	Negligible	13.3	13.5	0.26	Negligible
4205_Barry 5B		308710	169830	295.0	20.9	18.1	18.5	0.49	Negligible	13.3	13.5	0.25	Negligible
4216_Barry 5B		308713	169834	300.0	20.9	18.0	18.5	0.48	Negligible	13.3	13.5	0.24	Negligible
4227_Barry 5B		308716	169838	305.0	20.9	18.0	18.5	0.47	Negligible	13.3	13.5	0.24	Negligible
4238_Barry 5B		308719	169842	310.0	20.9	18.0	18.5	0.46	Negligible	13.3	13.5	0.23	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
4249_Barry 5B	Barry Woodlands SSSI (Lidmore Wood)	308722	169847	315.0	20.9	18.0	18.5	0.45	Negligible	13.3	13.5	0.23	Negligible
4250_Barry 5B		308727	169855	325.0	20.9	18.0	18.4	0.43	Negligible	13.2	13.5	0.22	Negligible
4261_Barry 5B		308733	169863	335.0	20.9	18.0	18.4	0.41	Negligible	13.2	13.5	0.21	Negligible
4272_Barry 5B		308738	169871	345.0	20.9	18.0	18.4	0.39	Negligible	13.2	13.4	0.20	Negligible
4283_Barry 5B		308744	169880	355.0	20.9	18.0	18.4	0.38	Negligible	13.2	13.4	0.19	Negligible
4294_Barry 5B		308750	169888	365.0	20.9	18.0	18.3	0.37	Negligible	13.2	13.4	0.18	Negligible
4305_Barry 5B		308755	169896	375.0	20.8	18.0	18.3	0.35	Negligible	13.2	13.4	0.18	Negligible
4316_Barry 5B		308761	169904	385.0	20.8	18.0	18.3	0.34	Negligible	13.2	13.4	0.17	Negligible
4327_Barry 5B		308767	169913	395.0	20.8	18.0	18.3	0.33	Negligible	13.2	13.4	0.17	Negligible
4338_Barry 5B		308772	169921	405.0	20.8	17.9	18.3	0.32	Negligible	13.2	13.4	0.16	Negligible
4349_Barry 5B		308778	169929	415.0	20.8	17.9	18.2	0.31	Negligible	13.2	13.4	0.15	Negligible
4350_Barry 5C		308625	169839	269.0	21.0	18.1	18.7	0.63	Negligible	13.3	13.6	0.32	Negligible
4361_Barry 5C		308628	169843	274.0	21.0	18.1	18.7	0.61	Negligible	13.3	13.6	0.32	Negligible
4372_Barry 5C		308631	169847	279.0	21.0	18.1	18.7	0.60	Negligible	13.3	13.6	0.31	Negligible
4383_Barry 5C	308633	169851	284.0	21.0	18.1	18.6	0.58	Negligible	13.3	13.6	0.30	Negligible	
4394_Barry 5C	308636	169856	289.0	20.9	18.1	18.6	0.57	Negligible	13.3	13.6	0.29	Negligible	
4405_Barry 5C	308639	169860	294.0	20.9	18.1	18.6	0.55	Negligible	13.3	13.6	0.28	Negligible	
4416_Barry 5C	308642	169864	299.0	20.9	18.0	18.6	0.54	Negligible	13.3	13.5	0.28	Negligible	
4427_Barry 5C	308645	169868	304.0	20.9	18.0	18.6	0.53	Negligible	13.3	13.5	0.27	Negligible	
4438_Barry 5C	308648	169872	309.0	20.9	18.0	18.5	0.51	Negligible	13.3	13.5	0.26	Negligible	
4449_Barry 5C	308650	169876	314.0	20.9	18.0	18.5	0.50	Negligible	13.3	13.5	0.26	Negligible	
4450_Barry 5C	308653	169880	319.0	20.9	18.0	18.5	0.49	Negligible	13.3	13.5	0.25	Negligible	
4461_Barry 5C	308656	169884	324.0	20.9	18.0	18.5	0.48	Negligible	13.2	13.5	0.24	Negligible	
4472_Barry 5C	308659	169889	329.0	20.9	18.0	18.5	0.47	Negligible	13.2	13.5	0.24	Negligible	
4483_Barry 5C	308662	169893	334.0	20.9	18.0	18.5	0.46	Negligible	13.2	13.5	0.23	Negligible	
4494_Barry 5C	308665	169897	339.0	20.9	18.0	18.4	0.45	Negligible	13.2	13.5	0.23	Negligible	
4505_Barry 5C	308667	169901	344.0	20.9	18.0	18.4	0.44	Negligible	13.2	13.5	0.22	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
4516_Barry 5C		308670	169905	349.0	20.9	18.0	18.4	0.43	Negligible	13.2	13.5	0.22	Negligible
4527_Barry 5C		308673	169909	354.0	20.9	18.0	18.4	0.42	Negligible	13.2	13.4	0.22	Negligible
4538_Barry 5C		308676	169913	359.0	20.9	18.0	18.4	0.42	Negligible	13.2	13.4	0.21	Negligible
4549_Barry 5C		308679	169917	364.0	20.9	18.0	18.4	0.41	Negligible	13.2	13.4	0.21	Negligible
4550_Barry 5C		308682	169922	369.0	20.8	18.0	18.4	0.40	Negligible	13.2	13.4	0.20	Negligible
4561_Barry 5C		308687	169930	379.0	20.8	18.0	18.3	0.39	Negligible	13.2	13.4	0.20	Negligible
4572_Barry 5C		308693	169938	389.0	20.8	18.0	18.3	0.37	Negligible	13.2	13.4	0.19	Negligible
4583_Barry 5C		308698	169946	399.0	20.8	17.9	18.3	0.36	Negligible	13.2	13.4	0.18	Negligible
4594_Barry 5C		308704	169955	409.0	20.8	17.9	18.3	0.35	Negligible	13.2	13.4	0.18	Negligible
4605_Barry 5C		308710	169963	419.0	20.8	17.9	18.3	0.34	Negligible	13.2	13.4	0.17	Negligible
4616_Barry 5C		308715	169971	429.0	20.8	17.9	18.3	0.33	Negligible	13.2	13.4	0.16	Negligible
4627_Barry 5C		308721	169979	439.0	20.8	17.9	18.2	0.32	Negligible	13.2	13.4	0.16	Negligible
4638_Barry 5C		308727	169988	449.0	20.8	17.9	18.2	0.31	Negligible	13.2	13.3	0.15	Negligible
4649_Barry 5C		308732	169996	459.0	20.8	17.9	18.2	0.30	Negligible	13.2	13.3	0.15	Negligible
4650_Barry 5C		308738	170004	469.0	20.8	17.9	18.2	0.29	Negligible	13.2	13.3	0.15	Negligible
4661_Cwm TalwgA	Cwm Talwg LNR (South of A4050)	310276	168888	62.0	26.2	22.3	21.3	-0.97	Negligible	16.0	15.3	-0.68	Negligible
4672_Cwm TalwgA		310280	168884	67.0	25.9	22.0	21.1	-0.90	Negligible	15.8	15.2	-0.64	Negligible
4683_Cwm TalwgA		310283	168881	72.0	25.6	21.8	21.0	-0.84	Negligible	15.6	15.1	-0.59	Negligible
4694_Cwm TalwgA		310286	168877	77.0	25.3	21.6	20.8	-0.79	Negligible	15.5	15.0	-0.56	Negligible
4705_Cwm TalwgA		310290	168874	82.0	25.1	21.4	20.7	-0.74	Negligible	15.4	14.9	-0.52	Negligible
4716_Cwm TalwgA		310293	168870	87.0	24.9	21.3	20.6	-0.70	Negligible	15.3	14.8	-0.50	Negligible
4727_Cwm TalwgA		310297	168867	92.0	24.8	21.1	20.5	-0.66	Negligible	15.2	14.7	-0.47	Negligible
4738_Cwm		310300	168863	97.0	24.6	21.0	20.4	-0.62	Negligible	15.1	14.7	-0.44	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
TalwgA	TalwgA												
4749_Cwm TalwgA		310304	168859	102.0	24.4	20.9	20.3	-0.59	Negligible	15.0	14.6	-0.42	Negligible
4750_Cwm TalwgA		310307	168856	107.0	24.3	20.8	20.2	-0.56	Negligible	15.0	14.6	-0.40	Negligible
4761_Cwm TalwgA		310311	168852	112.0	24.2	20.7	20.1	-0.54	Negligible	14.9	14.5	-0.38	Negligible
4772_Cwm TalwgA		310314	168849	117.0	24.1	20.6	20.1	-0.51	Negligible	14.8	14.5	-0.37	Negligible
4783_Cwm TalwgA		310318	168845	122.0	24.0	20.5	20.0	-0.49	Negligible	14.8	14.4	-0.35	Negligible
4794_Cwm TalwgA		310321	168841	127.0	23.9	20.4	19.9	-0.47	Negligible	14.7	14.4	-0.34	Negligible
4805_Cwm TalwgA		310325	168838	132.0	23.8	20.3	19.9	-0.45	Negligible	14.7	14.4	-0.32	Negligible
4816_Cwm TalwgA		310328	168834	137.0	23.7	20.3	19.8	-0.43	Negligible	14.6	14.3	-0.31	Negligible
4827_Cwm TalwgA		310332	168831	142.0	23.6	20.2	19.8	-0.41	Negligible	14.6	14.3	-0.30	Negligible
4838_Cwm TalwgA		310335	168827	147.0	23.6	20.1	19.7	-0.39	Negligible	14.6	14.3	-0.29	Negligible
4849_Cwm TalwgA	Cwm Talwg LNR (South of A4050)	310315	168926	247.9	25.5	21.7	20.9	-0.81	Negligible	15.6	15.0	-0.57	Negligible
4850_Cwm TalwgB		310319	168922	75.6	25.2	21.5	20.7	-0.76	Negligible	15.4	14.9	-0.54	Negligible
4861_Cwm TalwgB		310322	168919	80.6	25.0	21.3	20.6	-0.72	Negligible	15.3	14.8	-0.51	Negligible
4872_Cwm TalwgB		310325	168915	85.6	24.8	21.2	20.5	-0.68	Negligible	15.2	14.8	-0.48	Negligible
4883_Cwm TalwgB		310329	168912	90.6	24.7	21.0	20.4	-0.64	Negligible	15.2	14.7	-0.46	Negligible
4894_Cwm TalwgB		310332	168908	95.6	24.5	20.9	20.3	-0.61	Negligible	15.1	14.6	-0.43	Negligible
4905_Cwm		310336	168905	100.6	24.4	20.8	20.2	-0.58	Negligible	15.0	14.6	-0.41	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
TalwgB													
4916_Cwm TalwgB		310339	168901	105.6	24.3	20.7	20.2	-0.55	Negligible	14.9	14.5	-0.39	Negligible
4927_Cwm TalwgB		310343	168897	110.6	24.1	20.6	20.1	-0.53	Negligible	14.9	14.5	-0.38	Negligible
4938_Cwm TalwgB		310346	168894	115.6	24.0	20.5	20.0	-0.50	Negligible	14.8	14.5	-0.36	Negligible
4949_Cwm TalwgB		310350	168890	120.6	23.9	20.4	20.0	-0.48	Negligible	14.8	14.4	-0.35	Negligible

Table A6.4.4 Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test

Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1_Barry 1A	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309181	169102	4.2	33.4	35.6	49.3	13.73	Substantial Adverse	32.9	43.8	10.99	Substantial Adverse
2_Barry 1A		309185	169105	9.2	29.6	31.2	39.8	8.69	Substantial Adverse	28.4	35.4	6.91	Substantial Adverse
3_Barry 1A		309189	169108	14.2	27.6	28.8	35.3	6.45	Substantial Adverse	26.1	31.2	5.11	Substantial Adverse
4_Barry 1A		309193	169111	19.2	26.4	27.4	32.6	5.15	Substantial Adverse	24.7	28.8	4.07	Moderate Adverse
5_Barry 1A		309197	169114	24.2	25.5	26.4	30.7	4.29	Substantial Adverse	23.7	27.1	3.39	Moderate Adverse
6_Barry 1A		309201	169117	29.2	24.9	25.7	29.4	3.67	Moderate Adverse	23.0	25.9	2.90	Slight Adverse
7_Barry 1A		309205	169120	34.2	24.5	25.1	28.4	3.21	Moderate Adverse	22.4	25.0	2.53	Slight Adverse
8_Barry 1A		309209	169123	39.2	24.1	24.7	27.6	2.85	Moderate Adverse	22.0	24.2	2.24	Slight Adverse
9_Barry 1A		309213	169126	44.2	23.8	24.3	26.9	2.57	Slight Adverse	21.6	23.6	2.01	Slight Adverse
10_Barry 1A		309217	169129	49.2	23.5	24.1	26.4	2.33	Slight Adverse	21.3	23.2	1.82	Slight Adverse
11_Barry 1A		309221	169132	54.2	23.3	23.8	25.9	2.13	Slight Adverse	21.1	22.7	1.67	Slight Adverse
12_Barry 1A		309225	169135	59.2	23.1	23.6	25.6	1.97	Slight Adverse	20.9	22.4	1.53	Negligible
13_Barry 1A		309229	169138	64.2	23.0	23.4	25.2	1.82	Slight Adverse	20.7	22.1	1.42	Negligible
14_Barry 1A		309233	169141	69.2	22.8	23.3	24.9	1.70	Slight Adverse	20.5	21.8	1.32	Negligible
15_Barry 1A		309237	169144	74.2	22.7	23.1	24.7	1.59	Slight Adverse	20.4	21.6	1.23	Negligible
16_Barry 1A		309241	169147	79.2	22.6	23.0	24.5	1.49	Negligible	20.3	21.4	1.16	Negligible
17_Barry 1A		309245	169150	84.2	22.5	22.9	24.3	1.41	Negligible	20.1	21.2	1.09	Negligible
18_Barry 1A		309249	169153	89.2	22.4	22.8	24.1	1.33	Negligible	20.0	21.1	1.03	Negligible
19_Barry 1A		309253	169156	94.2	22.4	22.7	23.9	1.26	Negligible	20.0	20.9	0.97	Negligible
20_Barry 1A		309257	169159	99.2	22.3	22.6	23.8	1.20	Negligible	19.9	20.8	0.92	Negligible
21_Barry 1A		309265	169164	109.2	22.2	22.5	23.5	1.09	Negligible	19.7	20.6	0.83	Negligible
22_Barry 1A		309273	169170	119.2	22.1	22.3	23.3	1.00	Negligible	19.6	20.4	0.76	Negligible
23_Barry 1A		309282	169176	129.2	22.0	22.2	23.1	0.92	Negligible	19.5	20.2	0.70	Negligible
24_Barry 1A		309290	169182	139.2	21.9	22.1	23.0	0.85	Negligible	19.4	20.0	0.65	Negligible
25_Barry 1A		309298	169188	149.2	21.8	22.1	22.8	0.79	Negligible	19.3	19.9	0.60	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
26_Barry 1B	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309234	169040	2.4	36.3	38.9	57.3	18.37	Substantial Adverse	36.2	51.1	14.84	Substantial Adverse
27_Barry 1B		309238	169044	7.4	30.8	32.5	42.8	10.30	Substantial Adverse	29.8	38.1	8.25	Substantial Adverse
28_Barry 1B		309241	169047	12.4	28.3	29.6	36.9	7.32	Substantial Adverse	26.9	32.7	5.84	Substantial Adverse
29_Barry 1B		309245	169051	17.4	26.8	27.9	33.6	5.69	Substantial Adverse	25.2	29.7	4.54	Moderate Adverse
30_Barry 1B		309248	169054	22.4	25.9	26.8	31.4	4.66	Substantial Adverse	24.1	27.8	3.71	Moderate Adverse
31_Barry 1B		309252	169058	27.4	25.2	26.0	29.9	3.95	Moderate Adverse	23.3	26.4	3.14	Slight Adverse
32_Barry 1B		309255	169061	32.4	24.6	25.4	28.8	3.43	Moderate Adverse	22.6	25.4	2.72	Slight Adverse
33_Barry 1B		309259	169065	37.4	24.2	24.9	27.9	3.02	Moderate Adverse	22.2	24.6	2.39	Slight Adverse
34_Barry 1B		309263	169068	42.4	23.9	24.5	27.2	2.70	Moderate Adverse	21.8	23.9	2.13	Slight Adverse
35_Barry 1B		309266	169072	47.4	23.6	24.2	26.6	2.44	Slight Adverse	21.5	23.4	1.92	Slight Adverse
36_Barry 1B		309270	169075	52.4	23.4	23.9	26.2	2.22	Slight Adverse	21.2	23.0	1.75	Slight Adverse
37_Barry 1B		309273	169079	57.4	23.2	23.7	25.7	2.04	Slight Adverse	21.0	22.6	1.60	Slight Adverse
38_Barry 1B		309277	169082	62.4	23.1	23.5	25.4	1.88	Slight Adverse	20.8	22.3	1.48	Negligible
39_Barry 1B		309280	169086	67.4	22.9	23.4	25.1	1.75	Slight Adverse	20.6	22.0	1.37	Negligible
40_Barry 1B		309284	169089	72.4	22.8	23.2	24.8	1.63	Slight Adverse	20.5	21.8	1.27	Negligible
41_Barry 1B		309287	169093	77.4	22.7	23.1	24.6	1.53	Slight Adverse	20.3	21.5	1.19	Negligible
42_Barry 1B		309291	169096	82.4	22.6	23.0	24.4	1.44	Negligible	20.2	21.4	1.12	Negligible
43_Barry 1B		309295	169100	87.4	22.5	22.9	24.2	1.36	Negligible	20.1	21.2	1.06	Negligible
44_Barry 1B		309298	169103	92.4	22.4	22.8	24.0	1.29	Negligible	20.0	21.0	1.00	Negligible
45_Barry 1B		309302	169107	97.4	22.3	22.7	23.9	1.22	Negligible	19.9	20.9	0.94	Negligible
46_Barry 1B		309305	169110	102.4	22.3	22.6	23.8	1.16	Negligible	19.9	20.8	0.90	Negligible
47_Barry 1B		309312	169117	112.4	22.2	22.5	23.5	1.05	Negligible	19.7	20.5	0.81	Negligible
48_Barry 1B		309320	169124	122.4	22.1	22.3	23.3	0.97	Negligible	19.6	20.3	0.74	Negligible
49_Barry 1B		309327	169131	132.4	22.0	22.2	23.1	0.89	Negligible	19.5	20.2	0.68	Negligible
50_Barry 1B		309334	169138	142.4	21.9	22.2	23.0	0.82	Negligible	19.4	20.0	0.63	Negligible
51_Barry 1B	309341	169145	152.4	21.8	22.1	22.8	0.77	Negligible	19.3	19.9	0.58	Negligible	
52_Barry 1C	Barry	309340	168927	1.2	39.7	42.8	59.3	16.45	Substantial Adverse	40.2	52.8	12.64	Substantial Adverse

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
53_Barry 1C	Woodlands SSSI (Middleton Plantation, East of A4226)	309344	168930	6.2	32.6	34.6	44.6	9.97	Substantial Adverse	32.0	39.7	7.71	Substantial Adverse
54_Barry 1C		309347	168934	11.2	29.3	30.8	37.8	7.02	Substantial Adverse	28.1	33.6	5.45	Substantial Adverse
55_Barry 1C		309351	168937	16.2	27.5	28.7	34.2	5.45	Substantial Adverse	26.0	30.3	4.24	Substantial Adverse
56_Barry 1C		309355	168940	21.2	26.4	27.4	31.8	4.46	Substantial Adverse	24.7	28.2	3.47	Moderate Adverse
57_Barry 1C		309359	168944	26.2	25.6	26.4	30.2	3.78	Substantial Adverse	23.8	26.7	2.94	Slight Adverse
58_Barry 1C		309362	168947	31.2	25.0	25.8	29.0	3.28	Moderate Adverse	23.1	25.6	2.55	Slight Adverse
59_Barry 1C		309366	168950	36.2	24.5	25.2	28.1	2.89	Moderate Adverse	22.5	24.8	2.25	Slight Adverse
60_Barry 1C		309370	168954	41.2	24.2	24.8	27.4	2.59	Moderate Adverse	22.1	24.1	2.01	Slight Adverse
61_Barry 1C		309373	168957	46.2	23.9	24.5	26.8	2.34	Slight Adverse	21.8	23.6	1.82	Slight Adverse
62_Barry 1C		309377	168961	51.2	23.6	24.2	26.3	2.13	Slight Adverse	21.5	23.1	1.66	Slight Adverse
63_Barry 1C		309381	168964	56.2	23.4	23.9	25.9	1.96	Slight Adverse	21.2	22.7	1.52	Slight Adverse
64_Barry 1C		309385	168967	61.2	23.3	23.7	25.5	1.81	Slight Adverse	21.0	22.4	1.40	Negligible
65_Barry 1C		309388	168971	66.2	23.1	23.6	25.2	1.68	Slight Adverse	20.8	22.1	1.30	Negligible
66_Barry 1C		309392	168974	71.2	23.0	23.4	25.0	1.57	Slight Adverse	20.7	21.9	1.22	Negligible
67_Barry 1C		309396	168977	76.2	22.9	23.3	24.7	1.47	Negligible	20.5	21.7	1.14	Negligible
68_Barry 1C		309399	168981	81.2	22.8	23.1	24.5	1.39	Negligible	20.4	21.5	1.07	Negligible
69_Barry 1C		309403	168984	86.2	22.7	23.0	24.3	1.31	Negligible	20.3	21.3	1.01	Negligible
70_Barry 1C		309407	168987	91.2	22.6	22.9	24.2	1.24	Negligible	20.2	21.2	0.95	Negligible
71_Barry 1C		309410	168991	96.2	22.5	22.8	24.0	1.17	Negligible	20.1	21.0	0.90	Negligible
72_Barry 1C		309414	168994	101.2	22.4	22.8	23.9	1.11	Negligible	20.0	20.9	0.85	Negligible
73_Barry 1C		309422	169001	111.2	22.3	22.6	23.6	1.01	Negligible	19.9	20.7	0.77	Negligible
74_Barry 1C		309429	169007	121.2	22.2	22.5	23.4	0.92	Negligible	19.8	20.5	0.70	Negligible
75_Barry 1C		309436	169014	131.2	22.1	22.4	23.2	0.85	Negligible	19.7	20.3	0.65	Negligible
76_Barry 1C	309444	169021	141.2	22.0	22.3	23.1	0.79	Negligible	19.6	20.2	0.59	Negligible	
77_Barry 1C	309451	169028	151.2	22.0	22.2	23.0	0.73	Negligible	19.5	20.1	0.55	Negligible	
78_Barry 2A	Barry Woodlands	309070	169197	4.4	30.8	32.7	41.3	8.64	Substantial Adverse	29.9	36.9	7.07	Substantial Adverse
79_Barry 2A		309066	169194	9.4	27.7	29.1	34.3	5.29	Substantial Adverse	26.3	30.5	4.19	Substantial Adverse

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
80_Barry 2A	SSSI (Middleton Plantation, West of A4226)	309062	169191	14.4	26.1	27.2	31.1	3.95	Substantial Adverse	24.4	27.5	3.09	Moderate Adverse
81_Barry 2A		309058	169187	19.4	25.1	26.0	29.2	3.21	Moderate Adverse	23.2	25.7	2.50	Slight Adverse
82_Barry 2A		309055	169184	24.4	24.5	25.2	27.9	2.73	Moderate Adverse	22.4	24.6	2.12	Slight Adverse
83_Barry 2A		309051	169181	29.4	24.0	24.6	27.0	2.39	Moderate Adverse	21.9	23.7	1.85	Slight Adverse
84_Barry 2A		309047	169178	34.4	23.6	24.2	26.3	2.13	Slight Adverse	21.4	23.1	1.64	Slight Adverse
85_Barry 2A		309043	169174	39.4	23.3	23.8	25.8	1.92	Slight Adverse	21.1	22.6	1.48	Negligible
86_Barry 2A		309040	169171	44.4	23.1	23.5	25.3	1.76	Slight Adverse	20.8	22.1	1.35	Negligible
87_Barry 2A		309036	169168	49.4	22.9	23.3	24.9	1.62	Slight Adverse	20.6	21.8	1.25	Negligible
88_Barry 2A		309032	169164	54.4	22.7	23.1	24.6	1.50	Negligible	20.4	21.5	1.16	Negligible
89_Barry 2A		309028	169161	59.4	22.6	22.9	24.3	1.40	Negligible	20.2	21.3	1.07	Negligible
90_Barry 2A		309025	169158	64.4	22.4	22.8	24.1	1.31	Negligible	20.1	21.1	1.01	Negligible
91_Barry 2A		309021	169154	69.4	22.3	22.7	23.9	1.23	Negligible	19.9	20.9	0.94	Negligible
92_Barry 2A		309017	169151	74.4	22.2	22.6	23.7	1.16	Negligible	19.8	20.7	0.89	Negligible
93_Barry 2A		309013	169148	79.4	22.1	22.5	23.6	1.09	Negligible	19.7	20.6	0.84	Negligible
94_Barry 2A		309009	169145	84.4	22.1	22.4	23.4	1.04	Negligible	19.6	20.4	0.80	Negligible
95_Barry 2A		309006	169141	89.4	22.0	22.3	23.3	0.99	Negligible	19.6	20.3	0.76	Negligible
96_Barry 2A		309002	169138	94.4	21.9	22.2	23.2	0.94	Negligible	19.5	20.2	0.72	Negligible
97_Barry 2A		308998	169135	99.4	21.9	22.2	23.1	0.90	Negligible	19.4	20.1	0.69	Negligible
980_Barry 2A		308991	169128	109.4	21.8	22.1	22.9	0.82	Negligible	19.3	19.9	0.63	Negligible
991_Barry 2A		308983	169121	119.4	21.7	22.0	22.7	0.76	Negligible	19.2	19.8	0.58	Negligible
1002_Barry 2A	308976	169115	129.4	21.6	21.9	22.6	0.70	Negligible	19.1	19.7	0.53	Negligible	
1013_Barry 2A	308968	169108	139.4	21.6	21.8	22.5	0.65	Negligible	19.1	19.6	0.50	Negligible	
1024_Barry 2A	308961	169102	149.4	21.5	21.7	22.4	0.61	Negligible	19.0	19.5	0.47	Negligible	
1035_Barry 2A	308953	169095	159.4	21.5	21.7	22.3	0.57	Negligible	18.9	19.4	0.43	Negligible	
1046_Barry 2A	308946	169089	169.4	21.4	21.6	22.2	0.54	Negligible	18.9	19.3	0.41	Negligible	
1057_Barry 2A	308938	169082	179.4	21.4	21.6	22.1	0.51	Negligible	18.9	19.2	0.38	Negligible	
1068_Barry 2A	308931	169075	189.4	21.4	21.6	22.0	0.48	Negligible	18.8	19.2	0.36	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1079_Barry 2A		308923	169069	199.4	21.3	21.5	22.0	0.45	Negligible	18.8	19.1	0.34	Negligible
1081_Barry 2B	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309170	169079	4.4	31.8	33.9	43.3	9.44	Substantial Adverse	31.1	38.9	7.78	Substantial Adverse
1092_Barry 2B		309167	169075	9.4	28.2	29.6	35.9	6.27	Substantial Adverse	26.8	31.9	5.11	Substantial Adverse
1103_Barry 2B		309163	169072	14.4	26.4	27.5	32.3	4.76	Substantial Adverse	24.7	28.6	3.85	Moderate Adverse
1114_Barry 2B		309159	169069	19.4	25.4	26.2	30.1	3.85	Substantial Adverse	23.5	26.6	3.10	Slight Adverse
1125_Barry 2B		309155	169065	24.4	24.6	25.4	28.6	3.24	Moderate Adverse	22.7	25.3	2.60	Slight Adverse
1136_Barry 2B		309152	169062	29.4	24.1	24.8	27.6	2.80	Moderate Adverse	22.0	24.3	2.24	Slight Adverse
1147_Barry 2B		309148	169059	34.4	23.7	24.3	26.8	2.46	Slight Adverse	21.6	23.5	1.96	Slight Adverse
1158_Barry 2B		309144	169055	39.4	23.4	24.0	26.1	2.19	Slight Adverse	21.2	23.0	1.75	Slight Adverse
1169_Barry 2B		309141	169052	44.4	23.2	23.7	25.6	1.98	Slight Adverse	20.9	22.5	1.57	Negligible
1170_Barry 2B		309137	169048	49.4	23.0	23.4	25.2	1.80	Slight Adverse	20.7	22.1	1.43	Negligible
1181_Barry 2B		309133	169045	54.4	22.8	23.2	24.9	1.65	Slight Adverse	20.5	21.8	1.31	Negligible
1192_Barry 2B		309130	169042	59.4	22.6	23.0	24.6	1.53	Slight Adverse	20.3	21.5	1.21	Negligible
1203_Barry 2B		309126	169038	64.4	22.5	22.9	24.3	1.42	Negligible	20.2	21.3	1.12	Negligible
1214_Barry 2B		309122	169035	69.4	22.4	22.8	24.1	1.32	Negligible	20.0	21.1	1.04	Negligible
1225_Barry 2B		309118	169032	74.4	22.3	22.7	23.9	1.24	Negligible	19.9	20.9	0.98	Negligible
1236_Barry 2B		309115	169028	79.4	22.2	22.6	23.7	1.17	Negligible	19.8	20.7	0.92	Negligible
1247_Barry 2B		309111	169025	84.4	22.2	22.5	23.6	1.10	Negligible	19.7	20.6	0.86	Negligible
1258_Barry 2B		309107	169022	89.4	22.1	22.4	23.4	1.04	Negligible	19.7	20.5	0.81	Negligible
1269_Barry 2B		309104	169018	94.4	22.0	22.3	23.3	0.98	Negligible	19.6	20.4	0.77	Negligible
1270_Barry 2B		309100	169015	99.4	22.0	22.3	23.2	0.94	Negligible	19.5	20.2	0.73	Negligible
1281_Barry 2B		309092	169008	109.4	21.9	22.1	23.0	0.85	Negligible	19.4	20.1	0.66	Negligible
1292_Barry 2B		309085	169002	119.4	21.8	22.0	22.8	0.78	Negligible	19.3	19.9	0.61	Negligible
1303_Barry 2B		309078	168995	129.4	21.7	22.0	22.7	0.72	Negligible	19.2	19.8	0.56	Negligible
1314_Barry 2B	309070	168988	139.4	21.7	21.9	22.6	0.66	Negligible	19.2	19.7	0.51	Negligible	
1325_Barry 2B	309063	168981	149.4	21.6	21.8	22.5	0.62	Negligible	19.1	19.6	0.48	Negligible	
1336_Barry 2B	309055	168975	159.4	21.6	21.8	22.4	0.58	Negligible	19.1	19.5	0.44	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1347_Barry 2B	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309048	168968	169.4	21.5	21.7	22.3	0.54	Negligible	19.0	19.4	0.42	Negligible
1359_Barry 2C		309288	168953	3.6	30.4	32.2	46.3	14.07	Substantial Adverse	29.5	41.7	12.22	Substantial Adverse
1360_Barry 2C		309285	168950	8.6	27.7	29.0	37.1	8.15	Substantial Adverse	26.2	33.1	6.90	Substantial Adverse
1371_Barry 2C		309281	168947	13.6	26.2	27.3	33.1	5.83	Substantial Adverse	24.5	29.4	4.87	Moderate Adverse
1382_Barry 2C		309277	168943	18.6	25.3	26.2	30.7	4.55	Substantial Adverse	23.4	27.2	3.77	Moderate Adverse
1393_Barry 2C		309274	168940	23.6	24.7	25.4	29.1	3.74	Moderate Adverse	22.7	25.7	3.07	Slight Adverse
1404_Barry 2C		309270	168937	28.6	24.2	24.9	28.0	3.16	Moderate Adverse	22.1	24.7	2.59	Slight Adverse
1415_Barry 2C		309266	168933	33.6	23.8	24.4	27.2	2.74	Moderate Adverse	21.7	23.9	2.23	Slight Adverse
1426_Barry 2C		309262	168930	38.6	23.5	24.1	26.5	2.42	Slight Adverse	21.4	23.3	1.96	Slight Adverse
1437_Barry 2C		309259	168926	43.6	23.3	23.8	26.0	2.16	Slight Adverse	21.1	22.8	1.74	Slight Adverse
1448_Barry 2C		309255	168923	48.6	23.1	23.6	25.5	1.95	Slight Adverse	20.9	22.4	1.57	Negligible
1459_Barry 2C		309251	168920	53.6	22.9	23.4	25.2	1.78	Slight Adverse	20.7	22.1	1.43	Negligible
1460_Barry 2C		309248	168916	58.6	22.8	23.2	24.9	1.63	Slight Adverse	20.5	21.8	1.31	Negligible
1471_Barry 2C		309244	168913	63.6	22.7	23.1	24.6	1.51	Slight Adverse	20.4	21.6	1.20	Negligible
1482_Barry 2C		309240	168909	68.6	22.6	23.0	24.4	1.40	Negligible	20.2	21.4	1.12	Negligible
1493_Barry 2C		309237	168906	73.6	22.5	22.9	24.2	1.31	Negligible	20.1	21.2	1.04	Negligible
1504_Barry 2C		309233	168903	78.6	22.4	22.8	24.0	1.22	Negligible	20.0	21.0	0.97	Negligible
1515_Barry 2C		309229	168899	83.6	22.3	22.7	23.8	1.15	Negligible	20.0	20.9	0.91	Negligible
1526_Barry 2C		309226	168896	88.6	22.3	22.6	23.7	1.08	Negligible	19.9	20.7	0.86	Negligible
1537_Barry 2C		309222	168893	93.6	22.2	22.5	23.6	1.03	Negligible	19.8	20.6	0.81	Negligible
1548_Barry 2C	309218	168889	98.6	22.2	22.5	23.4	0.97	Negligible	19.7	20.5	0.76	Negligible	
1559_Barry 2C	309211	168882	108.6	22.1	22.4	23.2	0.88	Negligible	19.6	20.3	0.69	Negligible	
1560_Barry 2C	309204	168876	118.6	22.0	22.3	23.1	0.80	Negligible	19.6	20.2	0.62	Negligible	
1572_Barry 3A	Barry Woodlands SSSI (Pencoetre)	312545	170847	3.9	63.9	68.2	59.7	-8.47	Substantial Beneficial	66.0	57.2	-8.81	Substantial Beneficial
1583_Barry 3A		312549	170845	8.9	50.8	53.5	47.9	-5.68	Substantial Beneficial	51.1	45.0	-6.01	Substantial Beneficial

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1594_Barry 3A	Wood, South of A4050)	312553	170842	13.9	44.6	46.6	42.2	-4.36	Substantial Beneficial	44.0	39.3	-4.65	Substantial Beneficial
1605_Barry 3A		312558	170840	18.9	40.9	42.5	39.0	-3.58	Substantial Beneficial	39.8	36.0	-3.83	Substantial Beneficial
1616_Barry 3A		312562	170837	23.9	38.5	39.9	36.8	-3.05	Substantial Beneficial	37.0	33.8	-3.27	Substantial Beneficial
1627_Barry 3A		312566	170835	28.9	36.8	38.0	35.3	-2.67	Moderate Beneficial	35.1	32.2	-2.87	Moderate Beneficial
1638_Barry 3A		312571	170832	33.9	35.6	36.6	34.2	-2.38	Moderate Beneficial	33.7	31.1	-2.56	Moderate Beneficial
1649_Barry 3A		312575	170830	38.9	34.7	35.5	33.3	-2.15	Moderate Beneficial	32.6	30.2	-2.32	Moderate Beneficial
1650_Barry 3A		312579	170827	43.9	33.9	34.7	32.7	-1.97	Moderate Beneficial	31.7	29.6	-2.13	Moderate Beneficial
1661_Barry 3A		312584	170825	48.9	33.3	34.0	32.2	-1.82	Moderate Beneficial	31.0	29.0	-1.96	Moderate Beneficial
1672_Barry 3A		312588	170822	53.9	32.9	33.5	31.8	-1.69	Moderate Beneficial	30.5	28.6	-1.83	Moderate Beneficial
1683_Barry 3A		312592	170819	58.9	32.5	33.1	31.5	-1.57	Moderate Beneficial	30.0	28.3	-1.71	Moderate Beneficial
1694_Barry 3A		312597	170817	63.9	32.2	32.7	31.3	-1.48	Slight Beneficial	29.7	28.1	-1.61	Moderate Beneficial
1705_Barry 3A		312601	170814	68.9	32.0	32.5	31.1	-1.39	Slight Beneficial	29.4	27.9	-1.52	Moderate Beneficial
1716_Barry 3A		312605	170812	73.9	31.9	32.3	30.9	-1.32	Slight Beneficial	29.2	27.7	-1.44	Slight Beneficial
1727_Barry 3A		312610	170809	78.9	31.8	32.1	30.9	-1.25	Slight Beneficial	29.0	27.6	-1.37	Slight Beneficial
1738_Barry 3A		312614	170807	83.9	31.7	32.0	30.8	-1.19	Slight Beneficial	28.9	27.6	-1.31	Slight Beneficial
1749_Barry 3A		312618	170804	88.9	31.7	32.0	30.9	-1.13	Slight Beneficial	28.8	27.6	-1.26	Slight Beneficial
1750_Barry 3A		312622	170802	93.9	31.7	32.0	30.9	-1.08	Slight Beneficial	28.8	27.6	-1.21	Slight Beneficial
1761_Barry 3A		312627	170799	98.9	31.8	32.0	31.0	-1.04	Slight Beneficial	28.8	27.7	-1.16	Slight Beneficial
1772_Barry 3A		312635	170794	108.9	32.1	32.3	31.3	-0.96	Slight Beneficial	29.0	28.0	-1.09	Slight Beneficial
1783_Barry 3A		312644	170789	118.9	32.6	32.7	31.8	-0.89	Slight Beneficial	29.4	28.4	-1.03	Slight Beneficial
1794_Barry 3A	312653	170784	128.9	33.3	33.4	32.5	-0.84	Slight Beneficial	30.0	29.0	-0.98	Slight Beneficial	
1805_Barry 3A	312661	170779	138.9	34.3	34.3	33.5	-0.79	Slight Beneficial	30.9	29.9	-0.95	Slight Beneficial	
1816_Barry 3A	312670	170774	148.9	35.6	35.6	34.8	-0.75	Slight Beneficial	32.1	31.1	-0.92	Slight Beneficial	
1827_Barry 3A	312679	170769	158.9	37.6	37.4	36.7	-0.71	Slight Beneficial	33.8	32.9	-0.90	Slight Beneficial	
1838_Barry 3A	312687	170764	168.9	40.3	40.0	39.4	-0.68	Slight Beneficial	36.2	35.3	-0.89	Slight Beneficial	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
1849_Barry 3A	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312696	170759	178.9	44.4	44.0	43.4	-0.66	Slight Beneficial	39.9	39.0	-0.90	Slight Beneficial
1850_Barry 3A		312705	170754	188.9	51.5	50.9	50.2	-0.65	Slight Beneficial	46.2	45.3	-0.91	Slight Beneficial
1861_Barry 3A		312713	170749	198.9	66.7	65.5	64.9	-0.64	Slight Beneficial	59.6	58.7	-0.91	Slight Beneficial
1872_Barry 3B		312484	170754	1.2	72.1	77.7	67.3	-10.44	Substantial Beneficial	76.0	65.1	-10.83	Substantial Beneficial
1883_Barry 3B		312488	170751	6.2	53.8	57.3	50.6	-6.60	Substantial Beneficial	55.1	48.1	-7.00	Substantial Beneficial
1894_Barry 3B		312493	170749	11.2	44.8	47.3	42.5	-4.73	Substantial Beneficial	44.9	39.8	-5.08	Substantial Beneficial
1905_Barry 3B		312497	170746	16.2	40.0	41.8	38.1	-3.71	Substantial Beneficial	39.4	35.4	-4.03	Substantial Beneficial
1916_Barry 3B		312501	170744	21.2	36.9	38.4	35.4	-3.08	Substantial Beneficial	35.9	32.5	-3.35	Substantial Beneficial
1927_Barry 3B		312506	170741	26.2	34.8	36.1	33.5	-2.64	Moderate Beneficial	33.5	30.6	-2.88	Moderate Beneficial
1938_Barry 3B		312510	170739	31.2	33.3	34.4	32.1	-2.32	Moderate Beneficial	31.7	29.2	-2.54	Moderate Beneficial
1949_Barry 3B		312514	170736	36.2	32.1	33.1	31.0	-2.07	Moderate Beneficial	30.4	28.1	-2.27	Moderate Beneficial
1950_Barry 3B		312519	170734	41.2	31.2	32.1	30.2	-1.88	Moderate Beneficial	29.4	27.3	-2.06	Moderate Beneficial
1961_Barry 3B		312523	170731	46.2	30.5	31.3	29.5	-1.72	Moderate Beneficial	28.5	26.6	-1.89	Slight Beneficial
1972_Barry 3B		312527	170729	51.2	29.9	30.6	29.0	-1.59	Moderate Beneficial	27.8	26.1	-1.75	Slight Beneficial
1983_Barry 3B		312532	170726	56.2	29.3	30.0	28.5	-1.48	Slight Beneficial	27.2	25.6	-1.62	Slight Beneficial
1994_Barry 3B		312536	170724	61.2	28.9	29.5	28.2	-1.38	Slight Beneficial	26.7	25.2	-1.52	Slight Beneficial
2005_Barry 3B		312540	170721	66.2	28.5	29.1	27.8	-1.30	Slight Beneficial	26.3	24.9	-1.43	Negligible
2016_Barry 3B		312544	170719	71.2	28.2	28.8	27.5	-1.22	Slight Beneficial	26.0	24.6	-1.35	Negligible
2027_Barry 3B		312549	170716	76.2	28.0	28.5	27.3	-1.16	Slight Beneficial	25.6	24.4	-1.28	Negligible
2038_Barry 3B		312553	170714	81.2	27.7	28.2	27.1	-1.10	Slight Beneficial	25.3	24.1	-1.21	Negligible
2049_Barry 3B	312557	170711	86.2	27.5	28.0	26.9	-1.05	Negligible	25.1	23.9	-1.16	Negligible	
2050_Barry 3B	312562	170709	91.2	27.3	27.8	26.8	-1.00	Negligible	24.9	23.8	-1.11	Negligible	
2061_Barry 3B	312566	170706	96.2	27.2	27.6	26.6	-0.96	Negligible	24.7	23.6	-1.06	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
2072_Barry 3B		312570	170704	101.2	27.0	27.4	26.5	-0.92	Negligible	24.5	23.5	-1.02	Negligible
2083_Barry 3B		312579	170699	111.2	26.8	27.2	26.3	-0.85	Negligible	24.3	23.3	-0.95	Negligible
2094_Barry 3B		312588	170694	121.2	26.6	26.9	26.2	-0.80	Negligible	24.0	23.2	-0.88	Negligible
2105_Barry 3B		312596	170689	131.2	26.5	26.8	26.0	-0.74	Negligible	23.9	23.0	-0.83	Negligible
2116_Barry 3B		312605	170683	141.2	26.4	26.7	26.0	-0.70	Negligible	23.7	23.0	-0.78	Negligible
2127_Barry 3B		312614	170678	151.2	26.4	26.6	25.9	-0.66	Negligible	23.7	22.9	-0.74	Negligible
2138_Barry 3B		312622	170673	161.2	26.3	26.6	25.9	-0.63	Negligible	23.6	22.9	-0.71	Negligible
2149_Barry 3B		312631	170668	171.2	26.4	26.5	26.0	-0.59	Negligible	23.6	22.9	-0.67	Negligible
2150_Barry 3B		312639	170663	181.2	26.4	26.6	26.0	-0.57	Negligible	23.6	22.9	-0.65	Negligible
2161_Barry 3B		312648	170658	191.2	26.4	26.6	26.1	-0.54	Negligible	23.6	23.0	-0.62	Negligible
2172_Barry 3B		312657	170653	201.2	26.5	26.7	26.1	-0.52	Negligible	23.7	23.1	-0.60	Negligible
2183_Barry 3C		Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312439	170680	1.9	70.5	76.0	65.8	-10.16	Substantial Beneficial	74.3	63.7	-10.59
2194_Barry 3C	312443		170677	6.9	52.1	55.4	49.1	-6.29	Substantial Beneficial	53.3	46.6	-6.72	Substantial Beneficial
2205_Barry 3C	312448		170675	11.9	43.7	46.1	41.6	-4.56	Substantial Beneficial	43.8	38.9	-4.94	Substantial Beneficial
2216_Barry 3C	312452		170672	16.9	39.1	41.0	37.4	-3.61	Substantial Beneficial	38.6	34.7	-3.94	Substantial Beneficial
2227_Barry 3C	312456		170670	21.9	36.2	37.7	34.7	-3.00	Moderate Beneficial	35.2	31.9	-3.29	Substantial Beneficial
2238_Barry 3C	312460		170667	26.9	34.1	35.4	32.8	-2.57	Moderate Beneficial	32.9	30.0	-2.83	Moderate Beneficial
2249_Barry 3C	312465		170664	31.9	32.6	33.7	31.5	-2.26	Moderate Beneficial	31.1	28.7	-2.49	Moderate Beneficial
2250_Barry 3C	312469		170662	36.9	31.4	32.4	30.4	-2.02	Moderate Beneficial	29.8	27.6	-2.23	Moderate Beneficial
2261_Barry 3C	312473		170659	41.9	30.5	31.4	29.6	-1.83	Moderate Beneficial	28.8	26.8	-2.02	Slight Beneficial
2272_Barry 3C	312477		170657	46.9	29.8	30.6	28.9	-1.67	Moderate Beneficial	27.9	26.1	-1.85	Slight Beneficial
2283_Barry 3C	312482		170654	51.9	29.2	29.9	28.4	-1.54	Moderate Beneficial	27.2	25.5	-1.71	Slight Beneficial
2294_Barry 3C	312486		170651	56.9	28.6	29.3	27.9	-1.43	Slight Beneficial	26.6	25.0	-1.59	Slight Beneficial

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
2305_Barry 3C		312490	170649	61.9	28.2	28.9	27.5	-1.34	Slight Beneficial	26.1	24.6	-1.48	Negligible
2316_Barry 3C		312495	170646	66.9	27.8	28.4	27.2	-1.26	Slight Beneficial	25.7	24.3	-1.39	Negligible
2327_Barry 3C		312499	170644	71.9	27.5	28.1	26.9	-1.19	Negligible	25.3	24.0	-1.31	Negligible
2338_Barry 3C		312503	170641	76.9	27.2	27.7	26.6	-1.12	Negligible	25.0	23.7	-1.24	Negligible
2349_Barry 3C		312507	170639	81.9	26.9	27.4	26.4	-1.07	Negligible	24.7	23.5	-1.18	Negligible
2350_Barry 3C		312512	170636	86.9	26.7	27.2	26.2	-1.01	Negligible	24.4	23.3	-1.12	Negligible
2361_Barry 3C		312516	170633	91.9	26.5	27.0	26.0	-0.97	Negligible	24.2	23.1	-1.07	Negligible
2372_Barry 3C		312520	170631	96.9	26.3	26.8	25.8	-0.93	Negligible	23.9	22.9	-1.03	Negligible
2383_Barry 3C		312525	170628	101.9	26.2	26.6	25.7	-0.89	Negligible	23.8	22.8	-0.99	Negligible
2394_Barry 3C		312533	170623	111.9	25.9	26.3	25.4	-0.82	Negligible	23.4	22.5	-0.91	Negligible
2405_Barry 3C		312542	170618	121.9	25.7	26.0	25.2	-0.77	Negligible	23.2	22.3	-0.85	Negligible
2416_Barry 3C		312550	170613	131.9	25.5	25.8	25.1	-0.72	Negligible	22.9	22.1	-0.80	Negligible
2427_Barry 3C		312559	170607	141.9	25.3	25.6	24.9	-0.67	Negligible	22.8	22.0	-0.75	Negligible
2438_Barry 3C		312567	170602	151.9	25.2	25.5	24.8	-0.64	Negligible	22.6	21.9	-0.71	Negligible
2449_Barry 3C		312576	170597	161.9	25.1	25.3	24.7	-0.60	Negligible	22.5	21.8	-0.67	Negligible
2450_Barry 3C		312584	170592	171.9	25.0	25.2	24.7	-0.57	Negligible	22.3	21.7	-0.64	Negligible
2461_Barry 3C		312593	170587	181.9	24.9	25.1	24.6	-0.54	Negligible	22.3	21.6	-0.61	Negligible
2472_Barry 3C		312601	170581	191.9	24.9	25.1	24.6	-0.52	Negligible	22.2	21.6	-0.59	Negligible
2483_Barry 3C		312610	170576	201.9	24.8	25.0	24.5	-0.50	Negligible	22.1	21.6	-0.56	Negligible
2494_Barry 3D		Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312718	170717	16.4	41.5	41.2	40.6	-0.54	Slight Beneficial	37.2	36.4	-0.77
2505_Barry 3D	312714		170714	21.4	38.1	37.8	37.3	-0.54	Slight Beneficial	34.1	33.4	-0.74	Slight Beneficial
2516_Barry 3D	312709		170712	26.4	35.7	35.5	35.0	-0.54	Slight Beneficial	31.9	31.2	-0.72	Slight Beneficial
2527_Barry 3D	312705		170709	31.4	33.9	33.8	33.3	-0.53	Slight Beneficial	30.4	29.7	-0.70	Slight Beneficial
2538_Barry 3D	312701		170707	36.4	32.6	32.5	32.0	-0.53	Slight Beneficial	29.2	28.5	-0.69	Slight Beneficial
2549_Barry 3D	312697		170704	41.4	31.5	31.5	31.0	-0.53	Slight Beneficial	28.2	27.5	-0.68	Slight Beneficial
2550_Barry 3D	312692		170702	46.4	30.7	30.7	30.2	-0.53	Slight Beneficial	27.4	26.8	-0.67	Negligible
2561_Barry 3D	312688		170699	51.4	30.0	30.0	29.5	-0.54	Slight Beneficial	26.8	26.2	-0.66	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
2572_Barry 3D		312684	170696	56.4	29.4	29.5	28.9	-0.54	Slight Beneficial	26.3	25.6	-0.66	Negligible
2583_Barry 3D		312679	170694	61.4	28.9	29.0	28.4	-0.54	Slight Beneficial	25.8	25.2	-0.65	Negligible
2594_Barry 3D		312675	170691	66.4	28.5	28.6	28.0	-0.54	Slight Beneficial	25.5	24.8	-0.65	Negligible
2605_Barry 3D		312671	170689	71.4	28.1	28.2	27.7	-0.55	Slight Beneficial	25.1	24.5	-0.65	Negligible
2616_Barry 3D		312667	170686	76.4	27.8	27.9	27.4	-0.55	Slight Beneficial	24.9	24.2	-0.65	Negligible
2627_Barry 3D		312662	170683	81.4	27.5	27.7	27.1	-0.55	Slight Beneficial	24.6	24.0	-0.65	Negligible
2638_Barry 3D		312658	170681	86.4	27.3	27.4	26.9	-0.56	Negligible	24.4	23.7	-0.65	Negligible
2649_Barry 3D		312654	170678	91.4	27.1	27.2	26.7	-0.56	Negligible	24.2	23.6	-0.65	Negligible
2650_Barry 3D		312650	170676	96.4	26.9	27.0	26.5	-0.57	Negligible	24.0	23.4	-0.65	Negligible
2661_Barry 3D		312645	170673	101.4	26.7	26.9	26.3	-0.57	Negligible	23.9	23.2	-0.65	Negligible
2672_Barry 3D		312641	170670	106.4	26.6	26.7	26.2	-0.57	Negligible	23.8	23.1	-0.66	Negligible
2683_Barry 3D		312637	170668	111.4	26.4	26.6	26.0	-0.58	Negligible	23.6	23.0	-0.66	Negligible
2694_Barry 3D		312632	170665	116.4	26.3	26.5	25.9	-0.58	Negligible	23.5	22.9	-0.66	Negligible
2705_Barry 3D		312624	170660	126.4	26.1	26.3	25.7	-0.60	Negligible	23.4	22.7	-0.67	Negligible
2716_Barry 3D		312615	170655	136.4	25.9	26.2	25.6	-0.61	Negligible	23.2	22.5	-0.68	Negligible
2727_Barry 3D		312607	170650	146.4	25.8	26.0	25.4	-0.62	Negligible	23.1	22.4	-0.70	Negligible
2738_Barry 3D		312598	170645	156.4	25.7	26.0	25.3	-0.63	Negligible	23.0	22.3	-0.71	Negligible
2749_Barry 3D		312590	170639	166.4	25.6	25.9	25.2	-0.65	Negligible	23.0	22.3	-0.72	Negligible
2750_Barry 3D		312581	170634	176.4	25.6	25.9	25.2	-0.66	Negligible	23.0	22.2	-0.74	Negligible
2761_Barry 3D		312572	170629	186.4	25.5	25.8	25.1	-0.68	Negligible	23.0	22.2	-0.76	Negligible
2772_Barry 3D	312564	170624	196.4	25.5	25.8	25.1	-0.70	Negligible	23.0	22.2	-0.78	Negligible	
2783_Barry 3D	312555	170619	206.4	25.5	25.8	25.1	-0.71	Negligible	23.0	22.2	-0.80	Negligible	
2794_Barry 3D	312547	170614	216.4	25.5	25.9	25.1	-0.73	Negligible	23.0	22.2	-0.82	Negligible	
2805_Barry 3E	Barry Woodlands SSSI (Pencoetre Wood, South)	312779	170633	7.4	55.0	54.1	53.6	-0.43	Slight Beneficial	49.2	48.4	-0.75	Slight Beneficial
2816_Barry 3E		312775	170631	12.4	45.7	45.2	44.8	-0.41	Slight Beneficial	40.9	40.2	-0.69	Slight Beneficial
2827_Barry 3E		312770	170628	17.4	40.6	40.2	39.8	-0.40	Slight Beneficial	36.3	35.7	-0.65	Slight Beneficial
2838_Barry 3E		312766	170626	22.4	37.3	37.0	36.6	-0.39	Slight Beneficial	33.3	32.7	-0.61	Slight Beneficial

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
2849_Barry 3E	of A4050)	312762	170623	27.4	35.0	34.8	34.4	-0.39	Slight Beneficial	31.2	30.7	-0.58	Slight Beneficial
2850_Barry 3E		312757	170621	32.4	33.3	33.1	32.8	-0.39	Slight Beneficial	29.7	29.1	-0.56	Slight Beneficial
2861_Barry 3E		312753	170618	37.4	32.0	31.9	31.5	-0.38	Slight Beneficial	28.5	28.0	-0.54	Slight Beneficial
2872_Barry 3E		312749	170616	42.4	31.0	30.9	30.5	-0.38	Slight Beneficial	27.6	27.0	-0.53	Slight Beneficial
2883_Barry 3E		312744	170613	47.4	30.1	30.1	29.7	-0.38	Slight Beneficial	26.8	26.3	-0.52	Negligible
2894_Barry 3E		312740	170611	52.4	29.4	29.4	29.0	-0.38	Slight Beneficial	26.2	25.7	-0.51	Negligible
2905_Barry 3E		312736	170608	57.4	28.8	28.8	28.5	-0.38	Slight Beneficial	25.6	25.1	-0.50	Negligible
2916_Barry 3E		312731	170606	62.4	28.3	28.4	28.0	-0.38	Slight Beneficial	25.2	24.7	-0.49	Negligible
2927_Barry 3E		312727	170603	67.4	27.9	27.9	27.6	-0.38	Slight Beneficial	24.8	24.3	-0.49	Negligible
2938_Barry 3E		312723	170601	72.4	27.5	27.6	27.2	-0.38	Slight Beneficial	24.5	24.0	-0.48	Negligible
2949_Barry 3E		312718	170598	77.4	27.2	27.3	26.9	-0.38	Negligible	24.2	23.7	-0.48	Negligible
2950_Barry 3E		312714	170596	82.4	26.9	27.0	26.6	-0.39	Negligible	23.9	23.4	-0.48	Negligible
2961_Barry 3E		312710	170593	87.4	26.7	26.7	26.4	-0.39	Negligible	23.7	23.2	-0.48	Negligible
2972_Barry 3E		312705	170591	92.4	26.4	26.5	26.1	-0.39	Negligible	23.5	23.0	-0.47	Negligible
2983_Barry 3E		312701	170588	97.4	26.2	26.3	25.9	-0.39	Negligible	23.3	22.8	-0.47	Negligible
2994_Barry 3E		312696	170586	102.4	26.1	26.1	25.8	-0.39	Negligible	23.1	22.7	-0.47	Negligible
3005_Barry 3E		312692	170583	107.4	25.9	26.0	25.6	-0.39	Negligible	23.0	22.5	-0.47	Negligible
3016_Barry 3E		312683	170579	117.4	25.6	25.7	25.3	-0.40	Negligible	22.7	22.2	-0.47	Negligible
3027_Barry 3E		312675	170574	127.4	25.3	25.5	25.1	-0.40	Negligible	22.5	22.0	-0.47	Negligible
3038_Barry 3E		312666	170569	137.4	25.1	25.3	24.9	-0.41	Negligible	22.3	21.8	-0.48	Negligible
3049_Barry 3E		312657	170564	147.4	25.0	25.1	24.7	-0.41	Negligible	22.2	21.7	-0.48	Negligible
3050_Barry 3E		312649	170559	157.4	24.8	25.0	24.6	-0.42	Negligible	22.0	21.6	-0.48	Negligible
3061_Barry 3E		312640	170554	167.4	24.7	24.9	24.4	-0.42	Negligible	21.9	21.5	-0.49	Negligible
3072_Barry 3E		312631	170549	177.4	24.6	24.8	24.3	-0.43	Negligible	21.9	21.4	-0.49	Negligible
3083_Barry 3E		312623	170544	187.4	24.5	24.7	24.2	-0.44	Negligible	21.8	21.3	-0.50	Negligible
3094_Barry 3E		312614	170539	197.4	24.4	24.6	24.2	-0.44	Negligible	21.7	21.2	-0.50	Negligible
3105_Barry 3E		312605	170534	207.4	24.4	24.6	24.1	-0.45	Negligible	21.7	21.2	-0.51	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
3116_Barry 4A	Barry Woodlands SSSI (Pencoetre Wood, East of A4231)	312734	170789	20.5	42.3	42.2	41.5	-0.67	Slight Beneficial	38.6	37.4	-1.15	Slight Beneficial
3127_Barry 4A		312738	170792	25.5	39.3	39.2	38.5	-0.65	Slight Beneficial	35.7	34.6	-1.04	Slight Beneficial
3138_Barry 4A		312743	170794	30.5	37.0	37.0	36.3	-0.64	Slight Beneficial	33.6	32.6	-0.96	Slight Beneficial
3149_Barry 4A		312747	170796	35.5	35.3	35.3	34.6	-0.62	Slight Beneficial	31.9	31.0	-0.90	Slight Beneficial
3150_Barry 4A		312751	170799	40.5	33.9	33.9	33.3	-0.61	Slight Beneficial	30.6	29.7	-0.86	Slight Beneficial
3161_Barry 4A		312756	170801	45.5	32.8	32.8	32.2	-0.60	Slight Beneficial	29.5	28.7	-0.82	Slight Beneficial
3172_Barry 4A		312760	170804	50.5	31.8	31.8	31.2	-0.59	Slight Beneficial	28.6	27.8	-0.78	Slight Beneficial
3183_Barry 4A		312764	170806	55.5	31.0	31.0	30.5	-0.59	Slight Beneficial	27.8	27.1	-0.76	Slight Beneficial
3194_Barry 4A		312769	170809	60.5	30.3	30.4	29.8	-0.58	Slight Beneficial	27.2	26.4	-0.73	Negligible
3205_Barry 4A		312773	170811	65.5	29.7	29.8	29.2	-0.57	Slight Beneficial	26.6	25.9	-0.71	Negligible
3216_Barry 4A		312777	170814	70.5	29.1	29.2	28.7	-0.56	Slight Beneficial	26.1	25.4	-0.69	Negligible
3227_Barry 4A		312782	170816	75.5	28.7	28.8	28.2	-0.56	Slight Beneficial	25.6	25.0	-0.67	Negligible
3238_Barry 4A		312786	170819	80.5	28.2	28.3	27.8	-0.55	Slight Beneficial	25.2	24.6	-0.65	Negligible
3249_Barry 4A		312790	170821	85.5	27.9	28.0	27.4	-0.55	Slight Beneficial	24.9	24.2	-0.64	Negligible
3250_Barry 4A		312795	170824	90.5	27.5	27.6	27.1	-0.54	Slight Beneficial	24.5	23.9	-0.62	Negligible
3261_Barry 4A		312799	170826	95.5	27.2	27.3	26.8	-0.53	Negligible	24.2	23.6	-0.61	Negligible
3272_Barry 4A		312803	170829	100.5	26.9	27.0	26.5	-0.53	Negligible	24.0	23.4	-0.60	Negligible
3283_Barry 4A		312808	170831	105.5	26.7	26.8	26.2	-0.52	Negligible	23.7	23.1	-0.59	Negligible
3294_Barry 4A		312812	170834	110.5	26.4	26.5	26.0	-0.52	Negligible	23.5	22.9	-0.58	Negligible
3305_Barry 4A		312816	170836	115.5	26.2	26.3	25.8	-0.51	Negligible	23.3	22.7	-0.56	Negligible
3316_Barry 4A		312821	170839	120.5	26.0	26.1	25.6	-0.50	Negligible	23.1	22.5	-0.55	Negligible
3327_Barry 4A		312829	170844	130.5	25.6	25.7	25.2	-0.49	Negligible	22.7	22.2	-0.54	Negligible
3338_Barry 4A		312838	170849	140.5	25.3	25.4	24.9	-0.48	Negligible	22.4	21.9	-0.52	Negligible
3349_Barry 4A		312847	170854	150.5	25.0	25.1	24.6	-0.47	Negligible	22.1	21.6	-0.50	Negligible
3350_Barry 4A		312855	170859	160.5	24.7	24.9	24.4	-0.46	Negligible	21.9	21.4	-0.49	Negligible
3361_Barry 4A		312864	170864	170.5	24.5	24.6	24.2	-0.45	Negligible	21.6	21.2	-0.47	Negligible
3372_Barry 4A		312873	170869	180.5	24.3	24.4	24.0	-0.44	Negligible	21.4	21.0	-0.46	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
3383_Barry 4A		312881	170874	190.5	24.1	24.2	23.8	-0.43	Negligible	21.3	20.8	-0.44	Negligible
3394_Barry 4A		312890	170879	200.5	24.0	24.1	23.7	-0.42	Negligible	21.1	20.7	-0.43	Negligible
3405_Barry 4A		312899	170884	210.5	23.8	23.9	23.5	-0.41	Negligible	21.0	20.5	-0.42	Negligible
3416_Barry 4A		312907	170889	220.5	23.7	23.8	23.4	-0.40	Negligible	20.8	20.4	-0.41	Negligible
3427_Barry 4B	Barry Woodlands SSSI (Pencoetre Wood, East of A4231)	312798	170655	8.3	58.8	58.3	57.8	-0.53	Slight Beneficial	54.2	52.7	-1.53	Moderate Beneficial
3438_Barry 4B		312802	170657	13.3	49.5	49.2	48.7	-0.47	Slight Beneficial	45.3	44.2	-1.17	Slight Beneficial
3449_Barry 4B		312807	170660	18.3	44.0	43.8	43.3	-0.44	Slight Beneficial	40.1	39.1	-0.98	Slight Beneficial
3450_Barry 4B		312811	170662	23.3	40.4	40.2	39.7	-0.42	Slight Beneficial	36.6	35.7	-0.86	Slight Beneficial
3461_Barry 4B		312816	170664	28.3	37.7	37.6	37.2	-0.40	Slight Beneficial	34.1	33.3	-0.77	Slight Beneficial
3472_Barry 4B		312820	170667	33.3	35.7	35.6	35.2	-0.39	Slight Beneficial	32.2	31.5	-0.71	Slight Beneficial
3483_Barry 4B		312825	170669	38.3	34.2	34.1	33.7	-0.38	Slight Beneficial	30.7	30.1	-0.66	Slight Beneficial
3494_Barry 4B		312829	170671	43.3	32.9	32.9	32.5	-0.38	Slight Beneficial	29.6	29.0	-0.62	Slight Beneficial
3505_Barry 4B		312833	170674	48.3	31.9	31.9	31.5	-0.37	Slight Beneficial	28.6	28.0	-0.59	Slight Beneficial
3516_Barry 4B		312838	170676	53.3	31.0	31.0	30.7	-0.37	Slight Beneficial	27.8	27.2	-0.57	Slight Beneficial
3527_Barry 4B		312842	170678	58.3	30.3	30.3	29.9	-0.36	Slight Beneficial	27.1	26.6	-0.54	Negligible
3538_Barry 4B		312847	170681	63.3	29.7	29.7	29.3	-0.36	Slight Beneficial	26.5	26.0	-0.52	Negligible
3549_Barry 4B		312851	170683	68.3	29.1	29.1	28.8	-0.35	Slight Beneficial	26.0	25.5	-0.51	Negligible
3550_Barry 4B		312855	170685	73.3	28.6	28.7	28.3	-0.35	Slight Beneficial	25.5	25.0	-0.49	Negligible
3561_Barry 4B		312860	170688	78.3	28.2	28.2	27.9	-0.35	Slight Beneficial	25.1	24.6	-0.48	Negligible
3572_Barry 4B		312864	170690	83.3	27.8	27.9	27.5	-0.34	Slight Beneficial	24.8	24.3	-0.47	Negligible
3583_Barry 4B		312869	170693	88.3	27.5	27.5	27.2	-0.34	Slight Beneficial	24.4	24.0	-0.46	Negligible
3594_Barry 4B		312873	170695	93.3	27.2	27.2	26.9	-0.34	Negligible	24.1	23.7	-0.45	Negligible
3605_Barry 4B		312878	170697	98.3	26.9	26.9	26.6	-0.33	Negligible	23.9	23.4	-0.44	Negligible
3616_Barry 4B		312882	170700	103.3	26.6	26.7	26.4	-0.33	Negligible	23.6	23.2	-0.43	Negligible
3627_Barry 4B		312886	170702	108.3	26.4	26.4	26.1	-0.33	Negligible	23.4	23.0	-0.42	Negligible
3638_Barry 4B		312895	170707	118.3	26.0	26.0	25.7	-0.32	Negligible	23.0	22.6	-0.41	Negligible
3649_Barry 4B		312904	170711	128.3	25.6	25.7	25.3	-0.32	Negligible	22.6	22.2	-0.39	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
3650_Barry 4B		312913	170716	138.3	25.3	25.4	25.0	-0.31	Negligible	22.3	22.0	-0.38	Negligible
3661_Barry 4B		312922	170721	148.3	25.0	25.1	24.8	-0.31	Negligible	22.1	21.7	-0.37	Negligible
3672_Barry 4B		312931	170725	158.3	24.7	24.8	24.5	-0.31	Negligible	21.8	21.5	-0.36	Negligible
3683_Barry 4B		312939	170730	168.3	24.5	24.6	24.3	-0.30	Negligible	21.6	21.3	-0.35	Negligible
3694_Barry 4B		312948	170735	178.3	24.3	24.4	24.1	-0.30	Negligible	21.4	21.1	-0.34	Negligible
3705_Barry 4B		312957	170739	188.3	24.1	24.2	23.9	-0.30	Negligible	21.3	20.9	-0.34	Negligible
3716_Barry 4B		312966	170744	198.3	24.0	24.1	23.8	-0.29	Negligible	21.1	20.8	-0.33	Negligible
3727_Barry 4B		312975	170749	208.3	23.8	23.9	23.6	-0.29	Negligible	21.0	20.6	-0.32	Negligible
3738_Barry 5A	Barry Woodlands SSSI (Lidmore Wood)	308726	169717	195.0	21.2	21.3	22.4	1.03	Negligible	18.6	19.4	0.85	Negligible
3749_Barry 5A		308729	169721	200.0	21.2	21.3	22.3	1.00	Negligible	18.6	19.4	0.82	Negligible
3750_Barry 5A		308732	169725	205.0	21.1	21.3	22.2	0.96	Negligible	18.5	19.3	0.79	Negligible
3761_Barry 5A		308734	169729	210.0	21.1	21.3	22.2	0.93	Negligible	18.5	19.3	0.76	Negligible
3772_Barry 5A		308737	169734	215.0	21.1	21.3	22.1	0.90	Negligible	18.5	19.2	0.73	Negligible
3783_Barry 5A		308740	169738	220.0	21.1	21.2	22.1	0.87	Negligible	18.5	19.2	0.71	Negligible
3794_Barry 5A		308743	169742	225.0	21.1	21.2	22.1	0.84	Negligible	18.5	19.2	0.69	Negligible
3805_Barry 5A		308746	169746	230.0	21.1	21.2	22.0	0.81	Negligible	18.4	19.1	0.66	Negligible
3816_Barry 5A		308749	169750	235.0	21.1	21.2	22.0	0.79	Negligible	18.4	19.1	0.64	Negligible
3827_Barry 5A		308751	169754	240.0	21.0	21.2	21.9	0.76	Negligible	18.4	19.0	0.62	Negligible
3838_Barry 5A		308754	169758	245.0	21.0	21.2	21.9	0.74	Negligible	18.4	19.0	0.61	Negligible
3849_Barry 5A		308757	169762	250.0	21.0	21.2	21.9	0.72	Negligible	18.4	19.0	0.59	Negligible
3850_Barry 5A		308760	169767	255.0	21.0	21.1	21.8	0.70	Negligible	18.4	19.0	0.57	Negligible
3861_Barry 5A		308763	169771	260.0	21.0	21.1	21.8	0.68	Negligible	18.4	18.9	0.56	Negligible
3872_Barry 5A		308766	169775	265.0	21.0	21.1	21.8	0.67	Negligible	18.4	18.9	0.54	Negligible
3883_Barry 5A		308768	169779	270.0	21.0	21.1	21.8	0.65	Negligible	18.3	18.9	0.53	Negligible
3894_Barry 5A		308771	169783	275.0	21.0	21.1	21.7	0.63	Negligible	18.3	18.9	0.51	Negligible
3905_Barry 5A		308774	169787	280.0	21.0	21.1	21.7	0.62	Negligible	18.3	18.8	0.50	Negligible
3916_Barry 5A		308777	169791	285.0	21.0	21.1	21.7	0.60	Negligible	18.3	18.8	0.49	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test										
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance	
3927_Barry 5A		308780	169795	290.0	21.0	21.1	21.7	0.59	Negligible	18.3	18.8	0.48	Negligible	
3938_Barry 5A		308783	169800	295.0	20.9	21.1	21.6	0.57	Negligible	18.3	18.8	0.47	Negligible	
3949_Barry 5A		308788	169808	305.0	20.9	21.0	21.6	0.55	Negligible	18.3	18.7	0.44	Negligible	
3950_Barry 5A		308794	169816	315.0	20.9	21.0	21.6	0.53	Negligible	18.3	18.7	0.42	Negligible	
3961_Barry 5A		308799	169824	325.0	20.9	21.0	21.5	0.50	Negligible	18.3	18.7	0.41	Negligible	
3972_Barry 5A		308805	169833	335.0	20.9	21.0	21.5	0.48	Negligible	18.2	18.6	0.39	Negligible	
3983_Barry 5A		308811	169841	345.0	20.9	21.0	21.4	0.46	Negligible	18.2	18.6	0.37	Negligible	
3994_Barry 5A		308816	169849	355.0	20.9	21.0	21.4	0.45	Negligible	18.2	18.6	0.36	Negligible	
4005_Barry 5A		308822	169857	365.0	20.9	21.0	21.4	0.43	Negligible	18.2	18.5	0.35	Negligible	
4016_Barry 5A		308828	169866	375.0	20.9	20.9	21.4	0.42	Negligible	18.2	18.5	0.33	Negligible	
4027_Barry 5A		308833	169874	385.0	20.8	20.9	21.3	0.40	Negligible	18.2	18.5	0.32	Negligible	
4038_Barry 5A		308839	169882	395.0	20.8	20.9	21.3	0.39	Negligible	18.2	18.5	0.31	Negligible	
4049_Barry 5B		Barry Woodlands SSSI (Lidmore Wood)	308665	169764	215.0	21.1	21.3	22.3	1.01	Negligible	18.5	19.3	0.84	Negligible
4050_Barry 5B			308668	169768	220.0	21.1	21.2	22.2	0.98	Negligible	18.5	19.3	0.81	Negligible
4061_Barry 5B	308671		169772	225.0	21.1	21.2	22.2	0.94	Negligible	18.5	19.2	0.78	Negligible	
4072_Barry 5B	308673		169776	230.0	21.1	21.2	22.1	0.91	Negligible	18.4	19.2	0.76	Negligible	
4083_Barry 5B	308676		169781	235.0	21.1	21.2	22.1	0.89	Negligible	18.4	19.2	0.73	Negligible	
4094_Barry 5B	308679		169785	240.0	21.0	21.2	22.0	0.86	Negligible	18.4	19.1	0.71	Negligible	
4105_Barry 5B	308682		169789	245.0	21.0	21.2	22.0	0.83	Negligible	18.4	19.1	0.69	Negligible	
4116_Barry 5B	308685		169793	250.0	21.0	21.2	22.0	0.81	Negligible	18.4	19.1	0.67	Negligible	
4127_Barry 5B	308688		169797	255.0	21.0	21.1	21.9	0.78	Negligible	18.4	19.0	0.65	Negligible	
4138_Barry 5B	308690		169801	260.0	21.0	21.1	21.9	0.76	Negligible	18.4	19.0	0.63	Negligible	
4149_Barry 5B	308693		169805	265.0	21.0	21.1	21.9	0.74	Negligible	18.4	19.0	0.61	Negligible	
4150_Barry 5B	308696		169809	270.0	21.0	21.1	21.8	0.72	Negligible	18.3	18.9	0.59	Negligible	
4161_Barry 5B	308699		169814	275.0	21.0	21.1	21.8	0.70	Negligible	18.3	18.9	0.58	Negligible	
4172_Barry 5B	308702		169818	280.0	21.0	21.1	21.8	0.69	Negligible	18.3	18.9	0.56	Negligible	
4183_Barry 5B	308705	169822	285.0	21.0	21.1	21.7	0.67	Negligible	18.3	18.9	0.55	Negligible		

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
4194_Barry 5B	Barry Woodlands SSSI (Lidmore Wood)	308707	169826	290.0	20.9	21.1	21.7	0.65	Negligible	18.3	18.8	0.53	Negligible
4205_Barry 5B		308710	169830	295.0	20.9	21.1	21.7	0.64	Negligible	18.3	18.8	0.52	Negligible
4216_Barry 5B		308713	169834	300.0	20.9	21.0	21.7	0.62	Negligible	18.3	18.8	0.51	Negligible
4227_Barry 5B		308716	169838	305.0	20.9	21.0	21.6	0.61	Negligible	18.3	18.8	0.50	Negligible
4238_Barry 5B		308719	169842	310.0	20.9	21.0	21.6	0.60	Negligible	18.3	18.8	0.49	Negligible
4249_Barry 5B		308722	169847	315.0	20.9	21.0	21.6	0.58	Negligible	18.3	18.7	0.47	Negligible
4250_Barry 5B		308727	169855	325.0	20.9	21.0	21.6	0.56	Negligible	18.2	18.7	0.45	Negligible
4261_Barry 5B		308733	169863	335.0	20.9	21.0	21.5	0.54	Negligible	18.2	18.7	0.44	Negligible
4272_Barry 5B		308738	169871	345.0	20.9	21.0	21.5	0.51	Negligible	18.2	18.6	0.42	Negligible
4283_Barry 5B		308744	169880	355.0	20.9	21.0	21.5	0.50	Negligible	18.2	18.6	0.40	Negligible
4294_Barry 5B		308750	169888	365.0	20.9	21.0	21.4	0.48	Negligible	18.2	18.6	0.39	Negligible
4305_Barry 5B		308755	169896	375.0	20.8	20.9	21.4	0.46	Negligible	18.2	18.6	0.37	Negligible
4316_Barry 5B		308761	169904	385.0	20.8	20.9	21.4	0.44	Negligible	18.2	18.5	0.36	Negligible
4327_Barry 5B		308767	169913	395.0	20.8	20.9	21.4	0.43	Negligible	18.2	18.5	0.35	Negligible
4338_Barry 5B		308772	169921	405.0	20.8	20.9	21.3	0.41	Negligible	18.1	18.5	0.33	Negligible
4349_Barry 5B		308778	169929	415.0	20.8	20.9	21.3	0.40	Negligible	18.1	18.5	0.32	Negligible
4350_Barry 5C		Barry Woodlands SSSI (Lidmore Wood)	308625	169839	269.0	21.0	21.1	21.9	0.82	Negligible	18.3	19.0	0.68
4361_Barry 5C	308628		169843	274.0	21.0	21.1	21.9	0.80	Negligible	18.3	19.0	0.66	Negligible
4372_Barry 5C	308631		169847	279.0	21.0	21.1	21.9	0.78	Negligible	18.3	19.0	0.64	Negligible
4383_Barry 5C	308633		169851	284.0	21.0	21.1	21.8	0.76	Negligible	18.3	18.9	0.63	Negligible
4394_Barry 5C	308636		169856	289.0	20.9	21.1	21.8	0.74	Negligible	18.3	18.9	0.61	Negligible
4405_Barry 5C	308639		169860	294.0	20.9	21.1	21.8	0.72	Negligible	18.3	18.9	0.59	Negligible
4416_Barry 5C	308642		169864	299.0	20.9	21.0	21.7	0.70	Negligible	18.3	18.9	0.58	Negligible
4427_Barry 5C	308645		169868	304.0	20.9	21.0	21.7	0.69	Negligible	18.3	18.8	0.56	Negligible
4438_Barry 5C	308648		169872	309.0	20.9	21.0	21.7	0.67	Negligible	18.3	18.8	0.55	Negligible
4449_Barry 5C	308650		169876	314.0	20.9	21.0	21.7	0.65	Negligible	18.3	18.8	0.54	Negligible
4450_Barry 5C	308653	169880	319.0	20.9	21.0	21.6	0.64	Negligible	18.3	18.8	0.52	Negligible	

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
4461_Barry 5C		308656	169884	324.0	20.9	21.0	21.6	0.62	Negligible	18.2	18.8	0.51	Negligible
4472_Barry 5C		308659	169889	329.0	20.9	21.0	21.6	0.61	Negligible	18.2	18.7	0.50	Negligible
4483_Barry 5C		308662	169893	334.0	20.9	21.0	21.6	0.60	Negligible	18.2	18.7	0.49	Negligible
4494_Barry 5C		308665	169897	339.0	20.9	21.0	21.6	0.59	Negligible	18.2	18.7	0.48	Negligible
4505_Barry 5C		308667	169901	344.0	20.9	21.0	21.6	0.57	Negligible	18.2	18.7	0.47	Negligible
4516_Barry 5C		308670	169905	349.0	20.9	21.0	21.5	0.56	Negligible	18.2	18.7	0.46	Negligible
4527_Barry 5C		308673	169909	354.0	20.9	21.0	21.5	0.55	Negligible	18.2	18.7	0.45	Negligible
4538_Barry 5C		308676	169913	359.0	20.9	21.0	21.5	0.54	Negligible	18.2	18.6	0.44	Negligible
4549_Barry 5C		308679	169917	364.0	20.9	21.0	21.5	0.53	Negligible	18.2	18.6	0.43	Negligible
4550_Barry 5C		308682	169922	369.0	20.8	20.9	21.5	0.52	Negligible	18.2	18.6	0.43	Negligible
4561_Barry 5C		308687	169930	379.0	20.8	20.9	21.4	0.50	Negligible	18.2	18.6	0.41	Negligible
4572_Barry 5C		308693	169938	389.0	20.8	20.9	21.4	0.49	Negligible	18.2	18.6	0.40	Negligible
4583_Barry 5C		308698	169946	399.0	20.8	20.9	21.4	0.47	Negligible	18.2	18.5	0.38	Negligible
4594_Barry 5C		308704	169955	409.0	20.8	20.9	21.4	0.45	Negligible	18.1	18.5	0.37	Negligible
4605_Barry 5C		308710	169963	419.0	20.8	20.9	21.3	0.44	Negligible	18.1	18.5	0.36	Negligible
4616_Barry 5C		308715	169971	429.0	20.8	20.9	21.3	0.43	Negligible	18.1	18.5	0.35	Negligible
4627_Barry 5C		308721	169979	439.0	20.8	20.9	21.3	0.41	Negligible	18.1	18.5	0.33	Negligible
4638_Barry 5C		308727	169988	449.0	20.8	20.9	21.3	0.40	Negligible	18.1	18.4	0.32	Negligible
4649_Barry 5C		308732	169996	459.0	20.8	20.9	21.3	0.39	Negligible	18.1	18.4	0.31	Negligible
4650_Barry 5C		308738	170004	469.0	20.8	20.9	21.2	0.38	Negligible	18.1	18.4	0.30	Negligible
4661_Cwm TalwgA	Cwm Talwg LNR (South of A4050)	310276	168888	62.0	26.2	26.5	25.4	-1.15	Negligible	24.1	22.7	-1.39	Negligible
4672_Cwm TalwgA		310280	168884	67.0	25.9	26.2	25.1	-1.07	Negligible	23.7	22.4	-1.30	Negligible
4683_Cwm TalwgA		310283	168881	72.0	25.6	25.9	24.9	-0.99	Negligible	23.4	22.2	-1.21	Negligible
4694_Cwm TalwgA		310286	168877	77.0	25.3	25.6	24.7	-0.93	Negligible	23.1	22.0	-1.14	Negligible
4705_Cwm		310290	168874	82.0	25.1	25.4	24.5	-0.87	Negligible	22.9	21.8	-1.07	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
TalwgA													
4716_Cwm TalwgA		310293	168870	87.0	24.9	25.2	24.4	-0.82	Negligible	22.7	21.6	-1.01	Negligible
4727_Cwm TalwgA		310297	168867	92.0	24.8	25.0	24.2	-0.78	Negligible	22.5	21.5	-0.96	Negligible
4738_Cwm TalwgA		310300	168863	97.0	24.6	24.8	24.1	-0.74	Negligible	22.3	21.4	-0.91	Negligible
4749_Cwm TalwgA		310304	168859	102.0	24.4	24.7	24.0	-0.70	Negligible	22.1	21.2	-0.86	Negligible
4750_Cwm TalwgA		310307	168856	107.0	24.3	24.6	23.9	-0.66	Negligible	22.0	21.1	-0.82	Negligible
4761_Cwm TalwgA		310311	168852	112.0	24.2	24.4	23.8	-0.63	Negligible	21.8	21.0	-0.78	Negligible
4772_Cwm TalwgA		310314	168849	117.0	24.1	24.3	23.7	-0.60	Negligible	21.7	20.9	-0.75	Negligible
4783_Cwm TalwgA		310318	168845	122.0	24.0	24.2	23.6	-0.57	Negligible	21.6	20.9	-0.72	Negligible
4794_Cwm TalwgA		310321	168841	127.0	23.9	24.1	23.5	-0.55	Negligible	21.5	20.8	-0.68	Negligible
4805_Cwm TalwgA		310325	168838	132.0	23.8	24.0	23.5	-0.52	Negligible	21.4	20.7	-0.66	Negligible
4816_Cwm TalwgA		310328	168834	137.0	23.7	23.9	23.4	-0.50	Negligible	21.3	20.6	-0.63	Negligible
4827_Cwm TalwgA		310332	168831	142.0	23.6	23.8	23.3	-0.48	Negligible	21.2	20.6	-0.61	Negligible
4838_Cwm TalwgA		310335	168827	147.0	23.6	23.7	23.3	-0.46	Negligible	21.1	20.5	-0.58	Negligible
4849_Cwm TalwgA	Cwm Talwg LNR (South of A4050)	310315	168926	247.9	25.5	25.7	24.8	-0.96	Negligible	23.2	22.1	-1.17	Negligible
4850_Cwm TalwgB		310319	168922	75.6	25.2	25.5	24.6	-0.90	Negligible	23.0	21.9	-1.10	Negligible
4861_Cwm TalwgB		310322	168919	80.6	25.0	25.3	24.4	-0.85	Negligible	22.7	21.7	-1.04	Negligible
4872_Cwm		310325	168915	85.6	24.8	25.1	24.3	-0.80	Negligible	22.5	21.6	-0.98	Negligible

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Receptor				Ambient nitrogen oxide at ecological receptors ($\mu\text{g}/\text{m}^3$) Sensitivity test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
TalwgB													
4883_Cwm TalwgB		310329	168912	90.6	24.7	24.9	24.2	-0.76	Negligible	22.3	21.4	-0.93	Negligible
4894_Cwm TalwgB		310332	168908	95.6	24.5	24.8	24.0	-0.72	Negligible	22.2	21.3	-0.89	Negligible
4905_Cwm TalwgB		310336	168905	100.6	24.4	24.6	23.9	-0.68	Negligible	22.0	21.2	-0.84	Negligible
4916_Cwm TalwgB		310339	168901	105.6	24.3	24.5	23.8	-0.65	Negligible	21.9	21.1	-0.81	Negligible
4927_Cwm TalwgB		310343	168897	110.6	24.1	24.4	23.7	-0.62	Negligible	21.7	21.0	-0.77	Negligible
4938_Cwm TalwgB		310346	168894	115.6	24.0	24.3	23.7	-0.59	Negligible	21.6	20.9	-0.74	Negligible
4949_Cwm TalwgB		310350	168890	120.6	23.9	24.1	23.6	-0.56	Negligible	21.5	20.8	-0.71	Negligible

Table A6.4.5 Nitrogen deposition at ecological receptors (kgN/Ha/yr)

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1_Barry 1A	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309181	169102	4.2	33.4	29.3	39.4	10.19	Substantial Adverse	20.0	25.2	5.21	Slight Adverse
2_Barry 1A		309185	169105	9.2	29.6	25.8	32.3	6.48	Substantial Adverse	18.0	21.3	3.28	Slight Adverse
3_Barry 1A		309189	169108	14.2	27.6	24.1	28.9	4.82	Moderate Adverse	16.9	19.3	2.43	Negligible
4_Barry 1A		309193	169111	19.2	26.4	23.0	26.8	3.86	Slight Adverse	16.2	18.2	1.93	Negligible
5_Barry 1A		309197	169114	24.2	25.5	22.2	25.4	3.22	Slight Adverse	15.8	17.4	1.61	Negligible
6_Barry 1A		309201	169117	29.2	24.9	21.6	24.4	2.76	Slight Adverse	15.4	16.8	1.38	Negligible
7_Barry 1A		309205	169120	34.2	24.5	21.2	23.6	2.41	Slight Adverse	15.2	16.4	1.20	Negligible
8_Barry 1A		309209	169123	39.2	24.1	20.9	23.0	2.14	Slight Adverse	15.0	16.0	1.07	Negligible
9_Barry 1A		309213	169126	44.2	23.8	20.6	22.5	1.93	Slight Adverse	14.8	15.8	0.96	Negligible
10_Barry 1A		309217	169129	49.2	23.5	20.4	22.1	1.75	Negligible	14.7	15.5	0.87	Negligible
11_Barry 1A		309221	169132	54.2	23.3	20.2	21.8	1.60	Negligible	14.6	15.4	0.79	Negligible
12_Barry 1A		309225	169135	59.2	23.1	20.0	21.5	1.48	Negligible	14.5	15.2	0.73	Negligible
13_Barry 1A		309229	169138	64.2	23.0	19.9	21.2	1.37	Negligible	14.4	15.1	0.68	Negligible
14_Barry 1A		309233	169141	69.2	22.8	19.7	21.0	1.28	Negligible	14.3	14.9	0.63	Negligible
15_Barry 1A		309237	169144	74.2	22.7	19.6	20.8	1.20	Negligible	14.2	14.8	0.59	Negligible
16_Barry 1A		309241	169147	79.2	22.6	19.5	20.7	1.12	Negligible	14.2	14.7	0.55	Negligible
17_Barry 1A		309245	169150	84.2	22.5	19.5	20.5	1.06	Negligible	14.1	14.6	0.52	Negligible
18_Barry 1A		309249	169153	89.2	22.4	19.4	20.4	1.00	Negligible	14.1	14.6	0.49	Negligible
19_Barry 1A		309253	169156	94.2	22.4	19.3	20.3	0.95	Negligible	14.0	14.5	0.46	Negligible
20_Barry 1A		309257	169159	99.2	22.3	19.2	20.1	0.90	Negligible	14.0	14.4	0.44	Negligible
21_Barry 1A		309265	169164	109.2	22.2	19.1	20.0	0.82	Negligible	13.9	14.3	0.40	Negligible
22_Barry 1A		309273	169170	119.2	22.1	19.0	19.8	0.75	Negligible	13.9	14.2	0.36	Negligible
23_Barry 1A		309282	169176	129.2	22.0	19.0	19.6	0.69	Negligible	13.8	14.2	0.33	Negligible
24_Barry 1A		309290	169182	139.2	21.9	18.9	19.5	0.64	Negligible	13.8	14.1	0.31	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
25_Barry 1A		309298	169188	149.2	21.8	18.8	19.4	0.60	Negligible	13.7	14.0	0.29	Negligible
26_Barry 1B	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309234	169040	2.4	36.3	31.8	45.5	13.63	Substantial Adverse	21.6	28.6	7.03	Moderate Adverse
27_Barry 1B		309238	169044	7.4	30.8	26.9	34.6	7.69	Substantial Adverse	18.6	22.5	3.91	Slight Adverse
28_Barry 1B		309241	169047	12.4	28.3	24.7	30.1	5.47	Substantial Adverse	17.3	20.0	2.77	Negligible
29_Barry 1B		309245	169051	17.4	26.8	23.3	27.6	4.27	Moderate Adverse	16.5	18.6	2.15	Negligible
30_Barry 1B		309248	169054	22.4	25.9	22.5	26.0	3.50	Slight Adverse	15.9	17.7	1.76	Negligible
31_Barry 1B		309252	169058	27.4	25.2	21.8	24.8	2.97	Slight Adverse	15.6	17.1	1.49	Negligible
32_Barry 1B		309255	169061	32.4	24.6	21.4	23.9	2.58	Slight Adverse	15.3	16.6	1.29	Negligible
33_Barry 1B		309259	169065	37.4	24.2	21.0	23.3	2.27	Slight Adverse	15.1	16.2	1.13	Negligible
34_Barry 1B		309263	169068	42.4	23.9	20.7	22.7	2.03	Slight Adverse	14.9	15.9	1.01	Negligible
35_Barry 1B		309266	169072	47.4	23.6	20.5	22.3	1.83	Negligible	14.7	15.7	0.91	Negligible
36_Barry 1B		309270	169075	52.4	23.4	20.3	21.9	1.67	Negligible	14.6	15.5	0.83	Negligible
37_Barry 1B		309273	169079	57.4	23.2	20.1	21.6	1.53	Negligible	14.5	15.3	0.76	Negligible
38_Barry 1B		309277	169082	62.4	23.1	20.0	21.4	1.42	Negligible	14.4	15.1	0.70	Negligible
39_Barry 1B		309280	169086	67.4	22.9	19.8	21.1	1.32	Negligible	14.4	15.0	0.65	Negligible
40_Barry 1B		309284	169089	72.4	22.8	19.7	20.9	1.23	Negligible	14.3	14.9	0.60	Negligible
41_Barry 1B		309287	169093	77.4	22.7	19.6	20.8	1.15	Negligible	14.2	14.8	0.57	Negligible
42_Barry 1B		309291	169096	82.4	22.6	19.5	20.6	1.08	Negligible	14.2	14.7	0.53	Negligible
43_Barry 1B		309295	169100	87.4	22.5	19.4	20.5	1.02	Negligible	14.1	14.6	0.50	Negligible
44_Barry 1B		309298	169103	92.4	22.4	19.4	20.3	0.97	Negligible	14.1	14.6	0.47	Negligible
45_Barry 1B		309302	169107	97.4	22.3	19.3	20.2	0.92	Negligible	14.0	14.5	0.45	Negligible
46_Barry 1B	309305	169110	102.4	22.3	19.2	20.1	0.87	Negligible	14.0	14.4	0.43	Negligible	
47_Barry 1B	309312	169117	112.4	22.2	19.1	19.9	0.79	Negligible	13.9	14.3	0.39	Negligible	
48_Barry 1B	309320	169124	122.4	22.1	19.0	19.8	0.73	Negligible	13.9	14.2	0.35	Negligible	
49_Barry 1B	309327	169131	132.4	22.0	19.0	19.6	0.67	Negligible	13.8	14.2	0.32	Negligible	

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
50_Barry 1B	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309334	169138	142.4	21.9	18.9	19.5	0.62	Negligible	13.8	14.1	0.30	Negligible
51_Barry 1B		309341	169145	152.4	21.8	18.8	19.4	0.58	Negligible	13.8	14.0	0.28	Negligible
52_Barry 1C		309340	168927	1.2	39.7	34.9	46.9	12.04	Substantial Adverse	23.4	29.4	6.00	Moderate Adverse
53_Barry 1C		309344	168930	6.2	32.6	28.5	35.9	7.36	Substantial Adverse	19.6	23.3	3.67	Slight Adverse
54_Barry 1C		309347	168934	11.2	29.3	25.6	30.8	5.21	Substantial Adverse	17.8	20.4	2.59	Negligible
55_Barry 1C		309351	168937	16.2	27.5	24.0	28.0	4.06	Moderate Adverse	16.9	18.9	2.01	Negligible
56_Barry 1C		309355	168940	21.2	26.4	22.9	26.3	3.33	Slight Adverse	16.2	17.9	1.65	Negligible
57_Barry 1C		309359	168944	26.2	25.6	22.2	25.0	2.82	Slight Adverse	15.8	17.2	1.40	Negligible
58_Barry 1C		309362	168947	31.2	25.0	21.7	24.1	2.45	Slight Adverse	15.5	16.7	1.21	Negligible
59_Barry 1C		309366	168950	36.2	24.5	21.3	23.4	2.16	Slight Adverse	15.2	16.3	1.07	Negligible
60_Barry 1C		309370	168954	41.2	24.2	20.9	22.9	1.94	Slight Adverse	15.0	16.0	0.96	Negligible
61_Barry 1C		309373	168957	46.2	23.9	20.7	22.4	1.75	Negligible	14.9	15.7	0.86	Negligible
62_Barry 1C		309377	168961	51.2	23.6	20.5	22.1	1.60	Negligible	14.7	15.5	0.79	Negligible
63_Barry 1C		309381	168964	56.2	23.4	20.3	21.7	1.47	Negligible	14.6	15.4	0.72	Negligible
64_Barry 1C		309385	168967	61.2	23.3	20.1	21.5	1.36	Negligible	14.5	15.2	0.67	Negligible
65_Barry 1C		309388	168971	66.2	23.1	20.0	21.2	1.26	Negligible	14.5	15.1	0.62	Negligible
66_Barry 1C		309392	168974	71.2	23.0	19.9	21.0	1.18	Negligible	14.4	15.0	0.58	Negligible
67_Barry 1C		309396	168977	76.2	22.9	19.8	20.9	1.11	Negligible	14.3	14.9	0.54	Negligible
68_Barry 1C		309399	168981	81.2	22.8	19.7	20.7	1.04	Negligible	14.3	14.8	0.51	Negligible
69_Barry 1C		309403	168984	86.2	22.7	19.6	20.6	0.98	Negligible	14.2	14.7	0.48	Negligible
70_Barry 1C		309407	168987	91.2	22.6	19.5	20.4	0.93	Negligible	14.2	14.6	0.45	Negligible
71_Barry 1C		309410	168991	96.2	22.5	19.4	20.3	0.88	Negligible	14.1	14.5	0.43	Negligible
72_Barry 1C		309414	168994	101.2	22.4	19.4	20.2	0.83	Negligible	14.1	14.5	0.41	Negligible
73_Barry 1C		309422	169001	111.2	22.3	19.3	20.0	0.76	Negligible	14.0	14.4	0.37	Negligible
74_Barry 1C	309429	169007	121.2	22.2	19.2	19.9	0.69	Negligible	14.0	14.3	0.33	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
75_Barry 1C		309436	169014	131.2	22.1	19.1	19.7	0.64	Negligible	13.9	14.2	0.31	Negligible
76_Barry 1C		309444	169021	141.2	22.0	19.0	19.6	0.59	Negligible	13.9	14.1	0.28	Negligible
77_Barry 1C		309451	169028	151.2	22.0	19.0	19.5	0.55	Negligible	13.8	14.1	0.26	Negligible
78_Barry 2A	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309070	169197	4.4	30.8	27.0	33.7	6.70	Substantial Adverse	18.7	22.0	3.36	Slight Adverse
79_Barry 2A		309066	169194	9.4	27.7	24.2	28.3	4.07	Moderate Adverse	17.0	19.0	2.00	Negligible
80_Barry 2A		309062	169191	14.4	26.1	22.8	25.8	3.02	Slight Adverse	16.1	17.6	1.47	Negligible
81_Barry 2A		309058	169187	19.4	25.1	21.9	24.3	2.45	Slight Adverse	15.6	16.8	1.19	Negligible
82_Barry 2A		309055	169184	24.4	24.5	21.3	23.3	2.08	Slight Adverse	15.2	16.2	1.01	Negligible
83_Barry 2A		309051	169181	29.4	24.0	20.8	22.6	1.82	Slight Adverse	14.9	15.8	0.88	Negligible
84_Barry 2A		309047	169178	34.4	23.6	20.5	22.1	1.62	Negligible	14.7	15.5	0.78	Negligible
85_Barry 2A		309043	169174	39.4	23.3	20.2	21.7	1.46	Negligible	14.6	15.3	0.71	Negligible
86_Barry 2A		309040	169171	44.4	23.1	20.0	21.3	1.33	Negligible	14.4	15.1	0.65	Negligible
87_Barry 2A		309036	169168	49.4	22.9	19.8	21.0	1.23	Negligible	14.3	14.9	0.59	Negligible
88_Barry 2A		309032	169164	54.4	22.7	19.6	20.8	1.14	Negligible	14.2	14.8	0.55	Negligible
89_Barry 2A		309028	169161	59.4	22.6	19.5	20.6	1.06	Negligible	14.2	14.7	0.51	Negligible
90_Barry 2A		309025	169158	64.4	22.4	19.4	20.4	0.99	Negligible	14.1	14.6	0.48	Negligible
91_Barry 2A		309021	169154	69.4	22.3	19.3	20.2	0.93	Negligible	14.0	14.5	0.45	Negligible
92_Barry 2A		309017	169151	74.4	22.2	19.2	20.1	0.88	Negligible	14.0	14.4	0.42	Negligible
93_Barry 2A		309013	169148	79.4	22.1	19.1	20.0	0.83	Negligible	13.9	14.3	0.40	Negligible
94_Barry 2A		309009	169145	84.4	22.1	19.1	19.9	0.78	Negligible	13.9	14.3	0.38	Negligible
95_Barry 2A		309006	169141	89.4	22.0	19.0	19.8	0.75	Negligible	13.9	14.2	0.36	Negligible
96_Barry 2A		309002	169138	94.4	21.9	19.0	19.7	0.71	Negligible	13.8	14.2	0.34	Negligible
97_Barry 2A		308998	169135	99.4	21.9	18.9	19.6	0.68	Negligible	13.8	14.1	0.33	Negligible
980_Barry 2A	308991	169128	109.4	21.8	18.8	19.4	0.62	Negligible	13.7	14.0	0.30	Negligible	
991_Barry 2A	308983	169121	119.4	21.7	18.7	19.3	0.57	Negligible	13.7	14.0	0.28	Negligible	
1002_Barry 2A	308976	169115	129.4	21.6	18.7	19.2	0.53	Negligible	13.7	13.9	0.25	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1013_Barry 2A		308968	169108	139.4	21.6	18.6	19.1	0.49	Negligible	13.6	13.9	0.24	Negligible
1024_Barry 2A		308961	169102	149.4	21.5	18.6	19.0	0.46	Negligible	13.6	13.8	0.22	Negligible
1035_Barry 2A		308953	169095	159.4	21.5	18.5	19.0	0.43	Negligible	13.6	13.8	0.21	Negligible
1046_Barry 2A		308946	169089	169.4	21.4	18.5	18.9	0.40	Negligible	13.6	13.7	0.19	Negligible
1057_Barry 2A		308938	169082	179.4	21.4	18.5	18.9	0.38	Negligible	13.5	13.7	0.18	Negligible
1068_Barry 2A		308931	169075	189.4	21.4	18.4	18.8	0.36	Negligible	13.5	13.7	0.17	Negligible
1079_Barry 2A		308923	169069	199.4	21.3	18.4	18.8	0.34	Negligible	13.5	13.7	0.16	Negligible
1081_Barry 2B	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309170	169079	4.4	31.8	28.0	35.3	7.33	Substantial Adverse	19.2	22.9	3.69	Slight Adverse
1092_Barry 2B		309167	169075	9.4	28.2	24.7	29.5	4.83	Moderate Adverse	17.2	19.7	2.42	Negligible
1103_Barry 2B		309163	169072	14.4	26.4	23.0	26.7	3.64	Slight Adverse	16.3	18.1	1.82	Negligible
1114_Barry 2B		309159	169069	19.4	25.4	22.1	25.0	2.94	Slight Adverse	15.7	17.2	1.47	Negligible
1125_Barry 2B		309155	169065	24.4	24.6	21.4	23.9	2.47	Slight Adverse	15.3	16.5	1.23	Negligible
1136_Barry 2B		309152	169062	29.4	24.1	20.9	23.1	2.13	Slight Adverse	15.0	16.1	1.06	Negligible
1147_Barry 2B		309148	169059	34.4	23.7	20.6	22.4	1.87	Negligible	14.8	15.7	0.93	Negligible
1158_Barry 2B		309144	169055	39.4	23.4	20.3	22.0	1.66	Negligible	14.6	15.5	0.83	Negligible
1169_Barry 2B		309141	169052	44.4	23.2	20.1	21.6	1.50	Negligible	14.5	15.2	0.74	Negligible
1170_Barry 2B		309137	169048	49.4	23.0	19.9	21.2	1.36	Negligible	14.4	15.1	0.68	Negligible
1181_Barry 2B		309133	169045	54.4	22.8	19.7	21.0	1.25	Negligible	14.3	14.9	0.62	Negligible
1192_Barry 2B		309130	169042	59.4	22.6	19.6	20.7	1.16	Negligible	14.2	14.8	0.57	Negligible
1203_Barry 2B		309126	169038	64.4	22.5	19.5	20.5	1.07	Negligible	14.1	14.7	0.53	Negligible
1214_Barry 2B		309122	169035	69.4	22.4	19.4	20.4	1.00	Negligible	14.1	14.6	0.49	Negligible
1225_Barry 2B		309118	169032	74.4	22.3	19.3	20.2	0.94	Negligible	14.0	14.5	0.46	Negligible
1236_Barry 2B		309115	169028	79.4	22.2	19.2	20.1	0.88	Negligible	14.0	14.4	0.43	Negligible
1247_Barry 2B		309111	169025	84.4	22.2	19.1	20.0	0.83	Negligible	13.9	14.3	0.41	Negligible
1258_Barry 2B		309107	169022	89.4	22.1	19.1	19.9	0.78	Negligible	13.9	14.3	0.39	Negligible
1269_Barry 2B	309104	169018	94.4	22.0	19.0	19.8	0.74	Negligible	13.9	14.2	0.36	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1270_Barry 2B		309100	169015	99.4	22.0	19.0	19.7	0.70	Negligible	13.8	14.2	0.35	Negligible
1281_Barry 2B		309092	169008	109.4	21.9	18.9	19.5	0.64	Negligible	13.8	14.1	0.31	Negligible
1292_Barry 2B		309085	169002	119.4	21.8	18.8	19.4	0.59	Negligible	13.7	14.0	0.29	Negligible
1303_Barry 2B		309078	168995	129.4	21.7	18.8	19.3	0.54	Negligible	13.7	14.0	0.26	Negligible
1314_Barry 2B		309070	168988	139.4	21.7	18.7	19.2	0.50	Negligible	13.7	13.9	0.24	Negligible
1325_Barry 2B		309063	168981	149.4	21.6	18.7	19.1	0.46	Negligible	13.6	13.9	0.23	Negligible
1336_Barry 2B		309055	168975	159.4	21.6	18.6	19.0	0.43	Negligible	13.6	13.8	0.21	Negligible
1347_Barry 2B		309048	168968	169.4	21.5	18.6	19.0	0.41	Negligible	13.6	13.8	0.20	Negligible
1359_Barry 2C	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309288	168953	3.6	30.4	26.7	37.6	10.93	Substantial Adverse	18.5	24.2	5.78	Slight Adverse
1360_Barry 2C		309285	168950	8.6	27.7	24.2	30.5	6.28	Substantial Adverse	17.0	20.2	3.26	Slight Adverse
1371_Barry 2C		309281	168947	13.6	26.2	22.8	27.3	4.47	Moderate Adverse	16.2	18.5	2.30	Negligible
1382_Barry 2C		309277	168943	18.6	25.3	22.0	25.5	3.48	Slight Adverse	15.7	17.4	1.78	Negligible
1393_Barry 2C		309274	168940	23.6	24.7	21.4	24.3	2.85	Slight Adverse	15.3	16.8	1.45	Negligible
1404_Barry 2C		309270	168937	28.6	24.2	21.0	23.4	2.41	Slight Adverse	15.0	16.3	1.22	Negligible
1415_Barry 2C		309266	168933	33.6	23.8	20.7	22.7	2.08	Slight Adverse	14.9	15.9	1.05	Negligible
1426_Barry 2C		309262	168930	38.6	23.5	20.4	22.2	1.83	Negligible	14.7	15.6	0.92	Negligible
1437_Barry 2C		309259	168926	43.6	23.3	20.2	21.8	1.64	Negligible	14.6	15.4	0.82	Negligible
1448_Barry 2C		309255	168923	48.6	23.1	20.0	21.5	1.48	Negligible	14.5	15.2	0.74	Negligible
1459_Barry 2C		309251	168920	53.6	22.9	19.9	21.2	1.35	Negligible	14.4	15.0	0.67	Negligible
1460_Barry 2C		309248	168916	58.6	22.8	19.7	21.0	1.23	Negligible	14.3	14.9	0.62	Negligible
1471_Barry 2C		309244	168913	63.6	22.7	19.6	20.8	1.14	Negligible	14.2	14.8	0.57	Negligible
1482_Barry 2C		309240	168909	68.6	22.6	19.5	20.6	1.06	Negligible	14.2	14.7	0.53	Negligible
1493_Barry 2C		309237	168906	73.6	22.5	19.4	20.4	0.99	Negligible	14.1	14.6	0.49	Negligible
1504_Barry 2C		309233	168903	78.6	22.4	19.4	20.3	0.92	Negligible	14.1	14.5	0.46	Negligible
1515_Barry 2C		309229	168899	83.6	22.3	19.3	20.2	0.87	Negligible	14.0	14.5	0.43	Negligible
1526_Barry 2C		309226	168896	88.6	22.3	19.2	20.1	0.82	Negligible	14.0	14.4	0.40	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1537_Barry 2C		309222	168893	93.6	22.2	19.2	20.0	0.77	Negligible	14.0	14.4	0.38	Negligible
1548_Barry 2C		309218	168889	98.6	22.2	19.1	19.9	0.73	Negligible	13.9	14.3	0.36	Negligible
1559_Barry 2C		309211	168882	108.6	22.1	19.1	19.7	0.66	Negligible	13.9	14.2	0.32	Negligible
1560_Barry 2C		309204	168876	118.6	22.0	19.0	19.6	0.60	Negligible	13.9	14.1	0.29	Negligible
1572_Barry 3A	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312545	170847	3.9	63.9	54.2	46.9	-7.26	Substantial Beneficial	35.2	30.9	-4.31	Substantial Beneficial
1583_Barry 3A		312549	170845	8.9	50.8	42.9	38.0	-4.89	Substantial Beneficial	28.3	25.3	-2.93	Slight Beneficial
1594_Barry 3A		312553	170842	13.9	44.6	37.5	33.8	-3.76	Substantial Beneficial	25.0	22.7	-2.26	Slight Beneficial
1605_Barry 3A		312558	170840	18.9	40.9	34.4	31.3	-3.08	Substantial Beneficial	23.0	21.2	-1.86	Negligible
1616_Barry 3A		312562	170837	23.9	38.5	32.3	29.7	-2.62	Moderate Beneficial	21.7	20.1	-1.59	Negligible
1627_Barry 3A		312566	170835	28.9	36.8	30.8	28.5	-2.29	Moderate Beneficial	20.8	19.4	-1.39	Negligible
1638_Barry 3A		312571	170832	33.9	35.6	29.7	27.7	-2.04	Moderate Beneficial	20.1	18.9	-1.24	Negligible
1649_Barry 3A		312575	170830	38.9	34.7	28.9	27.1	-1.84	Moderate Beneficial	19.6	18.5	-1.12	Negligible
1650_Barry 3A		312579	170827	43.9	33.9	28.3	26.6	-1.68	Slight Beneficial	19.2	18.2	-1.03	Negligible
1661_Barry 3A		312584	170825	48.9	33.3	27.7	26.2	-1.55	Slight Beneficial	18.9	18.0	-0.95	Negligible
1672_Barry 3A		312588	170822	53.9	32.9	27.3	25.9	-1.43	Negligible	18.6	17.8	-0.88	Negligible
1683_Barry 3A		312592	170819	58.9	32.5	27.0	25.7	-1.34	Negligible	18.4	17.6	-0.82	Negligible
1694_Barry 3A		312597	170817	63.9	32.2	26.7	25.5	-1.25	Negligible	18.3	17.5	-0.77	Negligible
1705_Barry 3A		312601	170814	68.9	32.0	26.5	25.4	-1.18	Negligible	18.1	17.4	-0.73	Negligible
1716_Barry 3A		312605	170812	73.9	31.9	26.4	25.3	-1.11	Negligible	18.0	17.3	-0.69	Negligible
1727_Barry 3A		312610	170809	78.9	31.8	26.3	25.2	-1.06	Negligible	17.9	17.3	-0.66	Negligible
1738_Barry 3A	312614	170807	83.9	31.7	26.2	25.2	-1.00	Negligible	17.9	17.2	-0.63	Negligible	
1749_Barry 3A	312618	170804	88.9	31.7	26.1	25.2	-0.96	Negligible	17.8	17.2	-0.60	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1750_Barry 3A		312622	170802	93.9	31.7	26.1	25.2	-0.91	Negligible	17.8	17.2	-0.58	Negligible
1761_Barry 3A		312627	170799	98.9	31.8	26.2	25.3	-0.87	Negligible	17.8	17.3	-0.56	Negligible
1772_Barry 3A		312635	170794	108.9	32.1	26.3	25.5	-0.81	Negligible	17.9	17.4	-0.52	Negligible
1783_Barry 3A		312644	170789	118.9	32.6	26.6	25.9	-0.75	Negligible	18.0	17.5	-0.49	Negligible
1794_Barry 3A		312653	170784	128.9	33.3	27.1	26.4	-0.70	Negligible	18.3	17.8	-0.47	Negligible
1805_Barry 3A		312661	170779	138.9	34.3	27.7	27.1	-0.66	Slight Beneficial	18.6	18.1	-0.45	Negligible
1816_Barry 3A		312670	170774	148.9	35.6	28.7	28.0	-0.63	Slight Beneficial	19.1	18.6	-0.44	Negligible
1827_Barry 3A		312679	170769	158.9	37.6	30.0	29.4	-0.60	Slight Beneficial	19.8	19.4	-0.43	Negligible
1838_Barry 3A		312687	170764	168.9	40.3	31.9	31.3	-0.57	Slight Beneficial	20.8	20.4	-0.42	Negligible
1849_Barry 3A		312696	170759	178.9	44.4	34.8	34.2	-0.55	Slight Beneficial	22.3	21.9	-0.42	Negligible
1850_Barry 3A		312705	170754	188.9	51.5	39.7	39.2	-0.54	Slight Beneficial	24.9	24.5	-0.43	Negligible
1861_Barry 3A		312713	170749	198.9	66.7	50.4	49.8	-0.54	Slight Beneficial	30.5	30.1	-0.42	Slight Beneficial
1872_Barry 3B		Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312484	170754	1.2	72.1	61.8	52.8	-8.99	Substantial Beneficial	40.1	34.7	-5.33
1883_Barry 3B	312488		170751	6.2	53.8	45.9	40.2	-5.72	Substantial Beneficial	30.3	26.9	-3.43	Slight Beneficial
1894_Barry 3B	312493		170749	11.2	44.8	38.2	34.1	-4.11	Substantial Beneficial	25.6	23.1	-2.49	Slight Beneficial
1905_Barry 3B	312497		170746	16.2	40.0	34.0	30.7	-3.24	Substantial Beneficial	23.0	21.0	-1.97	Negligible
1916_Barry 3B	312501		170744	21.2	36.9	31.3	28.7	-2.68	Moderate Beneficial	21.3	19.7	-1.63	Negligible
1927_Barry 3B	312506		170741	26.2	34.8	29.5	27.2	-2.30	Moderate Beneficial	20.2	18.8	-1.40	Negligible
1938_Barry 3B	312510		170739	31.2	33.3	28.2	26.2	-2.02	Slight Beneficial	19.4	18.2	-1.24	Negligible
1949_Barry 3B	312514		170736	36.2	32.1	27.2	25.4	-1.81	Slight Beneficial	18.8	17.7	-1.11	Negligible
1950_Barry 3B	312519		170734	41.2	31.2	26.4	24.8	-1.63	Slight Beneficial	18.3	17.3	-1.00	Negligible
1961_Barry 3B	312523		170731	46.2	30.5	25.8	24.3	-1.50	Negligible	17.9	17.0	-0.92	Negligible
1972_Barry 3B	312527	170729	51.2	29.9	25.3	23.9	-1.38	Negligible	17.6	16.7	-0.85	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1983_Barry 3B		312532	170726	56.2	29.3	24.8	23.6	-1.28	Negligible	17.3	16.5	-0.79	Negligible
1994_Barry 3B		312536	170724	61.2	28.9	24.5	23.3	-1.20	Negligible	17.1	16.3	-0.74	Negligible
2005_Barry 3B		312540	170721	66.2	28.5	24.1	23.0	-1.12	Negligible	16.9	16.2	-0.69	Negligible
2016_Barry 3B		312544	170719	71.2	28.2	23.9	22.8	-1.06	Negligible	16.7	16.1	-0.65	Negligible
2027_Barry 3B		312549	170716	76.2	28.0	23.6	22.6	-1.00	Negligible	16.6	15.9	-0.62	Negligible
2038_Barry 3B		312553	170714	81.2	27.7	23.4	22.5	-0.95	Negligible	16.4	15.8	-0.59	Negligible
2049_Barry 3B		312557	170711	86.2	27.5	23.2	22.3	-0.91	Negligible	16.3	15.7	-0.56	Negligible
2050_Barry 3B		312562	170709	91.2	27.3	23.1	22.2	-0.87	Negligible	16.2	15.7	-0.54	Negligible
2061_Barry 3B		312566	170706	96.2	27.2	22.9	22.1	-0.83	Negligible	16.1	15.6	-0.51	Negligible
2072_Barry 3B		312570	170704	101.2	27.0	22.8	22.0	-0.79	Negligible	16.0	15.5	-0.49	Negligible
2083_Barry 3B		312579	170699	111.2	26.8	22.6	21.9	-0.73	Negligible	15.9	15.4	-0.46	Negligible
2094_Barry 3B		312588	170694	121.2	26.6	22.4	21.8	-0.68	Negligible	15.8	15.4	-0.43	Negligible
2105_Barry 3B		312596	170689	131.2	26.5	22.3	21.7	-0.64	Negligible	15.7	15.3	-0.40	Negligible
2116_Barry 3B		312605	170683	141.2	26.4	22.2	21.6	-0.60	Negligible	15.7	15.3	-0.38	Negligible
2127_Barry 3B		312614	170678	151.2	26.4	22.2	21.6	-0.56	Negligible	15.6	15.2	-0.36	Negligible
2138_Barry 3B		312622	170673	161.2	26.3	22.1	21.6	-0.53	Negligible	15.6	15.2	-0.34	Negligible
2149_Barry 3B		312631	170668	171.2	26.4	22.1	21.6	-0.51	Negligible	15.6	15.2	-0.32	Negligible
2150_Barry 3B		312639	170663	181.2	26.4	22.1	21.6	-0.48	Negligible	15.5	15.2	-0.31	Negligible
2161_Barry 3B		312648	170658	191.2	26.4	22.1	21.7	-0.46	Negligible	15.6	15.3	-0.30	Negligible
2172_Barry 3B		312657	170653	201.2	26.5	22.2	21.7	-0.44	Negligible	15.6	15.3	-0.29	Negligible
2183_Barry 3C	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312439	170680	1.9	70.5	60.5	51.7	-8.77	Substantial Beneficial	39.3	34.1	-5.21	Substantial Beneficial
2194_Barry 3C		312443	170677	6.9	52.1	44.5	39.0	-5.48	Substantial Beneficial	29.5	26.2	-3.30	Slight Beneficial
2205_Barry 3C		312448	170675	11.9	43.7	37.3	33.3	-3.98	Substantial Beneficial	25.1	22.7	-2.42	Slight Beneficial
2216_Barry 3C		312452	170672	16.9	39.1	33.4	30.2	-3.16	Substantial Beneficial	22.6	20.7	-1.92	Negligible
2227_Barry 3C		312456	170670	21.9	36.2	30.8	28.2	-2.63	Moderate	21.1	19.5	-1.60	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
									Beneficial				
2238_Barry 3C		312460	170667	26.9	34.1	29.0	26.8	-2.25	Slight Beneficial	20.0	18.6	-1.38	Negligible
2249_Barry 3C		312465	170664	31.9	32.6	27.7	25.8	-1.98	Slight Beneficial	19.2	17.9	-1.21	Negligible
2250_Barry 3C		312469	170662	36.9	31.4	26.8	25.0	-1.77	Slight Beneficial	18.5	17.5	-1.09	Negligible
2261_Barry 3C		312473	170659	41.9	30.5	26.0	24.4	-1.60	Slight Beneficial	18.1	17.1	-0.98	Negligible
2272_Barry 3C		312477	170657	46.9	29.8	25.3	23.9	-1.46	Negligible	17.7	16.8	-0.90	Negligible
2283_Barry 3C		312482	170654	51.9	29.2	24.8	23.5	-1.35	Negligible	17.3	16.5	-0.83	Negligible
2294_Barry 3C		312486	170651	56.9	28.6	24.4	23.1	-1.25	Negligible	17.1	16.3	-0.77	Negligible
2305_Barry 3C		312490	170649	61.9	28.2	24.0	22.8	-1.17	Negligible	16.8	16.1	-0.72	Negligible
2316_Barry 3C		312495	170646	66.9	27.8	23.6	22.5	-1.10	Negligible	16.6	15.9	-0.68	Negligible
2327_Barry 3C		312499	170644	71.9	27.5	23.4	22.3	-1.03	Negligible	16.4	15.8	-0.64	Negligible
2338_Barry 3C		312503	170641	76.9	27.2	23.1	22.1	-0.98	Negligible	16.3	15.7	-0.60	Negligible
2349_Barry 3C		312507	170639	81.9	26.9	22.9	22.0	-0.93	Negligible	16.1	15.6	-0.57	Negligible
2350_Barry 3C		312512	170636	86.9	26.7	22.7	21.8	-0.88	Negligible	16.0	15.5	-0.55	Negligible
2361_Barry 3C		312516	170633	91.9	26.5	22.5	21.7	-0.84	Negligible	15.9	15.4	-0.52	Negligible
2372_Barry 3C		312520	170631	96.9	26.3	22.4	21.5	-0.81	Negligible	15.8	15.3	-0.50	Negligible
2383_Barry 3C		312525	170628	101.9	26.2	22.2	21.4	-0.77	Negligible	15.7	15.2	-0.48	Negligible
2394_Barry 3C		312533	170623	111.9	25.9	22.0	21.3	-0.71	Negligible	15.6	15.1	-0.44	Negligible
2405_Barry 3C		312542	170618	121.9	25.7	21.8	21.1	-0.66	Negligible	15.4	15.0	-0.41	Negligible
2416_Barry 3C		312550	170613	131.9	25.5	21.6	21.0	-0.62	Negligible	15.3	14.9	-0.39	Negligible
2427_Barry 3C		312559	170607	141.9	25.3	21.5	20.9	-0.58	Negligible	15.2	14.9	-0.36	Negligible
2438_Barry 3C		312567	170602	151.9	25.2	21.3	20.8	-0.55	Negligible	15.2	14.8	-0.34	Negligible
2449_Barry 3C		312576	170597	161.9	25.1	21.2	20.7	-0.52	Negligible	15.1	14.8	-0.33	Negligible
2450_Barry 3C		312584	170592	171.9	25.0	21.2	20.7	-0.49	Negligible	15.1	14.7	-0.31	Negligible
2461_Barry 3C		312593	170587	181.9	24.9	21.1	20.6	-0.47	Negligible	15.0	14.7	-0.30	Negligible
2472_Barry 3C		312601	170581	191.9	24.9	21.0	20.6	-0.45	Negligible	15.0	14.7	-0.28	Negligible
2483_Barry 3C		312610	170576	201.9	24.8	21.0	20.6	-0.43	Negligible	14.9	14.7	-0.27	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
2494_Barry 3D	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312718	170717	16.4	41.5	32.7	32.2	-0.46	Slight Beneficial	21.2	20.8	-0.37	Negligible
2505_Barry 3D		312714	170714	21.4	38.1	30.3	29.8	-0.45	Slight Beneficial	19.9	19.5	-0.35	Negligible
2516_Barry 3D		312709	170712	26.4	35.7	28.6	28.1	-0.45	Slight Beneficial	19.0	18.7	-0.34	Negligible
2527_Barry 3D		312705	170709	31.4	33.9	27.4	26.9	-0.45	Negligible	18.3	18.0	-0.33	Negligible
2538_Barry 3D		312701	170707	36.4	32.6	26.4	26.0	-0.45	Negligible	17.8	17.5	-0.33	Negligible
2549_Barry 3D		312697	170704	41.4	31.5	25.7	25.2	-0.45	Negligible	17.5	17.1	-0.32	Negligible
2550_Barry 3D		312692	170702	46.4	30.7	25.1	24.6	-0.45	Negligible	17.1	16.8	-0.32	Negligible
2561_Barry 3D		312688	170699	51.4	30.0	24.6	24.2	-0.45	Negligible	16.9	16.6	-0.31	Negligible
2572_Barry 3D		312684	170696	56.4	29.4	24.2	23.8	-0.45	Negligible	16.7	16.3	-0.31	Negligible
2583_Barry 3D		312679	170694	61.4	28.9	23.9	23.4	-0.46	Negligible	16.5	16.2	-0.31	Negligible
2594_Barry 3D		312675	170691	66.4	28.5	23.6	23.1	-0.46	Negligible	16.3	16.0	-0.31	Negligible
2605_Barry 3D		312671	170689	71.4	28.1	23.3	22.9	-0.46	Negligible	16.2	15.9	-0.31	Negligible
2616_Barry 3D		312667	170686	76.4	27.8	23.1	22.6	-0.46	Negligible	16.1	15.8	-0.31	Negligible
2627_Barry 3D		312662	170683	81.4	27.5	22.9	22.4	-0.47	Negligible	16.0	15.7	-0.31	Negligible
2638_Barry 3D		312658	170681	86.4	27.3	22.7	22.3	-0.47	Negligible	15.9	15.6	-0.31	Negligible
2649_Barry 3D		312654	170678	91.4	27.1	22.6	22.1	-0.48	Negligible	15.8	15.5	-0.31	Negligible
2650_Barry 3D		312650	170676	96.4	26.9	22.5	22.0	-0.48	Negligible	15.7	15.4	-0.31	Negligible
2661_Barry 3D		312645	170673	101.4	26.7	22.3	21.9	-0.48	Negligible	15.7	15.4	-0.31	Negligible
2672_Barry 3D		312641	170670	106.4	26.6	22.2	21.8	-0.49	Negligible	15.6	15.3	-0.32	Negligible
2683_Barry 3D		312637	170668	111.4	26.4	22.2	21.7	-0.49	Negligible	15.6	15.3	-0.32	Negligible
2694_Barry 3D		312632	170665	116.4	26.3	22.1	21.6	-0.50	Negligible	15.5	15.2	-0.32	Negligible
2705_Barry 3D		312624	170660	126.4	26.1	21.9	21.4	-0.51	Negligible	15.5	15.1	-0.32	Negligible
2716_Barry 3D		312615	170655	136.4	25.9	21.8	21.3	-0.52	Negligible	15.4	15.1	-0.33	Negligible
2727_Barry 3D		312607	170650	146.4	25.8	21.8	21.2	-0.53	Negligible	15.4	15.0	-0.34	Negligible
2738_Barry 3D		312598	170645	156.4	25.7	21.7	21.2	-0.54	Negligible	15.4	15.0	-0.34	Negligible
2749_Barry 3D	312590	170639	166.4	25.6	21.7	21.1	-0.56	Negligible	15.3	15.0	-0.35	Negligible	
2750_Barry 3D	312581	170634	176.4	25.6	21.6	21.1	-0.57	Negligible	15.3	15.0	-0.36	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
2761_Barry 3D		312572	170629	186.4	25.5	21.6	21.0	-0.59	Negligible	15.3	15.0	-0.37	Negligible
2772_Barry 3D		312564	170624	196.4	25.5	21.6	21.0	-0.60	Negligible	15.3	15.0	-0.38	Negligible
2783_Barry 3D		312555	170619	206.4	25.5	21.6	21.0	-0.62	Negligible	15.3	15.0	-0.38	Negligible
2794_Barry 3D		312547	170614	216.4	25.5	21.7	21.0	-0.63	Negligible	15.4	15.0	-0.40	Negligible
2805_Barry 3E	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312779	170633	7.4	55.0	42.0	41.7	-0.36	Slight Beneficial	26.1	25.8	-0.35	Negligible
2816_Barry 3E		312775	170631	12.4	45.7	35.6	35.2	-0.34	Slight Beneficial	22.7	22.4	-0.32	Negligible
2827_Barry 3E		312770	170628	17.4	40.6	32.0	31.6	-0.34	Slight Beneficial	20.8	20.5	-0.30	Negligible
2838_Barry 3E		312766	170626	22.4	37.3	29.7	29.3	-0.33	Slight Beneficial	19.6	19.3	-0.29	Negligible
2849_Barry 3E		312762	170623	27.4	35.0	28.0	27.7	-0.33	Slight Beneficial	18.7	18.4	-0.28	Negligible
2850_Barry 3E		312757	170621	32.4	33.3	26.8	26.5	-0.32	Negligible	18.0	17.8	-0.27	Negligible
2861_Barry 3E		312753	170618	37.4	32.0	25.9	25.6	-0.32	Negligible	17.6	17.3	-0.26	Negligible
2872_Barry 3E		312749	170616	42.4	31.0	25.2	24.9	-0.32	Negligible	17.2	16.9	-0.25	Negligible
2883_Barry 3E		312744	170613	47.4	30.1	24.6	24.3	-0.32	Negligible	16.8	16.6	-0.25	Negligible
2894_Barry 3E		312740	170611	52.4	29.4	24.1	23.8	-0.32	Negligible	16.6	16.3	-0.24	Negligible
2905_Barry 3E		312736	170608	57.4	28.8	23.7	23.4	-0.32	Negligible	16.4	16.1	-0.24	Negligible
2916_Barry 3E		312731	170606	62.4	28.3	23.4	23.1	-0.32	Negligible	16.2	15.9	-0.24	Negligible
2927_Barry 3E		312727	170603	67.4	27.9	23.1	22.8	-0.32	Negligible	16.0	15.8	-0.23	Negligible
2938_Barry 3E		312723	170601	72.4	27.5	22.8	22.5	-0.32	Negligible	15.9	15.6	-0.23	Negligible
2949_Barry 3E		312718	170598	77.4	27.2	22.6	22.3	-0.33	Negligible	15.8	15.5	-0.23	Negligible
2950_Barry 3E		312714	170596	82.4	26.9	22.4	22.1	-0.33	Negligible	15.7	15.4	-0.23	Negligible
2961_Barry 3E		312710	170593	87.4	26.7	22.2	21.9	-0.33	Negligible	15.6	15.3	-0.23	Negligible
2972_Barry 3E		312705	170591	92.4	26.4	22.1	21.7	-0.33	Negligible	15.5	15.2	-0.23	Negligible
2983_Barry 3E		312701	170588	97.4	26.2	21.9	21.6	-0.33	Negligible	15.4	15.2	-0.23	Negligible
2994_Barry 3E		312696	170586	102.4	26.1	21.8	21.5	-0.33	Negligible	15.3	15.1	-0.23	Negligible
3005_Barry 3E		312692	170583	107.4	25.9	21.7	21.3	-0.34	Negligible	15.3	15.0	-0.23	Negligible
3016_Barry 3E		312683	170579	117.4	25.6	21.5	21.1	-0.34	Negligible	15.2	14.9	-0.23	Negligible
3027_Barry 3E		312675	170574	127.4	25.3	21.3	21.0	-0.34	Negligible	15.1	14.8	-0.23	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
3038_Barry 3E		312666	170569	137.4	25.1	21.2	20.8	-0.35	Negligible	15.0	14.8	-0.23	Negligible
3049_Barry 3E		312657	170564	147.4	25.0	21.0	20.7	-0.35	Negligible	14.9	14.7	-0.23	Negligible
3050_Barry 3E		312649	170559	157.4	24.8	20.9	20.6	-0.36	Negligible	14.9	14.7	-0.23	Negligible
3061_Barry 3E		312640	170554	167.4	24.7	20.9	20.5	-0.36	Negligible	14.8	14.6	-0.23	Negligible
3072_Barry 3E		312631	170549	177.4	24.6	20.8	20.4	-0.37	Negligible	14.8	14.6	-0.24	Negligible
3083_Barry 3E		312623	170544	187.4	24.5	20.7	20.4	-0.37	Negligible	14.8	14.5	-0.24	Negligible
3094_Barry 3E		312614	170539	197.4	24.4	20.7	20.3	-0.38	Negligible	14.8	14.5	-0.24	Negligible
3105_Barry 3E		312605	170534	207.4	24.4	20.7	20.3	-0.39	Negligible	14.7	14.5	-0.25	Negligible
3116_Barry 4A	Barry Woodlands SSSI (Pencoetre Wood, East of A4231)	312734	170789	20.5	42.3	33.5	32.9	-0.56	Slight Beneficial	21.8	21.3	-0.54	Negligible
3127_Barry 4A		312738	170792	25.5	39.3	31.3	30.7	-0.54	Slight Beneficial	20.6	20.1	-0.49	Negligible
3138_Barry 4A		312743	170794	30.5	37.0	29.7	29.2	-0.53	Slight Beneficial	19.7	19.3	-0.45	Negligible
3149_Barry 4A		312747	170796	35.5	35.3	28.4	27.9	-0.51	Slight Beneficial	19.0	18.6	-0.43	Negligible
3150_Barry 4A		312751	170799	40.5	33.9	27.4	26.9	-0.50	Negligible	18.5	18.1	-0.40	Negligible
3161_Barry 4A		312756	170801	45.5	32.8	26.6	26.1	-0.50	Negligible	18.0	17.6	-0.39	Negligible
3172_Barry 4A		312760	170804	50.5	31.8	25.9	25.4	-0.49	Negligible	17.6	17.3	-0.37	Negligible
3183_Barry 4A		312764	170806	55.5	31.0	25.4	24.9	-0.48	Negligible	17.3	16.9	-0.36	Negligible
3194_Barry 4A		312769	170809	60.5	30.3	24.9	24.4	-0.47	Negligible	17.0	16.7	-0.35	Negligible
3205_Barry 4A		312773	170811	65.5	29.7	24.4	23.9	-0.47	Negligible	16.8	16.4	-0.33	Negligible
3216_Barry 4A		312777	170814	70.5	29.1	24.0	23.6	-0.46	Negligible	16.6	16.2	-0.33	Negligible
3227_Barry 4A		312782	170816	75.5	28.7	23.7	23.2	-0.46	Negligible	16.4	16.1	-0.32	Negligible
3238_Barry 4A		312786	170819	80.5	28.2	23.4	22.9	-0.45	Negligible	16.2	15.9	-0.31	Negligible
3249_Barry 4A		312790	170821	85.5	27.9	23.1	22.7	-0.44	Negligible	16.1	15.8	-0.30	Negligible
3250_Barry 4A		312795	170824	90.5	27.5	22.9	22.4	-0.44	Negligible	15.9	15.6	-0.29	Negligible
3261_Barry 4A		312799	170826	95.5	27.2	22.6	22.2	-0.43	Negligible	15.8	15.5	-0.29	Negligible
3272_Barry 4A		312803	170829	100.5	26.9	22.4	22.0	-0.43	Negligible	15.7	15.4	-0.28	Negligible
3283_Barry 4A		312808	170831	105.5	26.7	22.2	21.8	-0.42	Negligible	15.6	15.3	-0.28	Negligible
3294_Barry 4A	312812	170834	110.5	26.4	22.1	21.6	-0.42	Negligible	15.5	15.2	-0.27	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
3305_Barry 4A		312816	170836	115.5	26.2	21.9	21.5	-0.41	Negligible	15.4	15.1	-0.27	Negligible
3316_Barry 4A		312821	170839	120.5	26.0	21.7	21.3	-0.41	Negligible	15.3	15.0	-0.26	Negligible
3327_Barry 4A		312829	170844	130.5	25.6	21.5	21.1	-0.40	Negligible	15.1	14.9	-0.25	Negligible
3338_Barry 4A		312838	170849	140.5	25.3	21.2	20.8	-0.39	Negligible	15.0	14.8	-0.24	Negligible
3349_Barry 4A		312847	170854	150.5	25.0	21.0	20.6	-0.38	Negligible	14.9	14.7	-0.24	Negligible
3350_Barry 4A		312855	170859	160.5	24.7	20.8	20.5	-0.37	Negligible	14.8	14.6	-0.23	Negligible
3361_Barry 4A		312864	170864	170.5	24.5	20.7	20.3	-0.36	Negligible	14.7	14.5	-0.22	Negligible
3372_Barry 4A		312873	170869	180.5	24.3	20.5	20.2	-0.36	Negligible	14.6	14.4	-0.22	Negligible
3383_Barry 4A		312881	170874	190.5	24.1	20.4	20.0	-0.35	Negligible	14.5	14.3	-0.21	Negligible
3394_Barry 4A		312890	170879	200.5	24.0	20.3	19.9	-0.34	Negligible	14.5	14.3	-0.20	Negligible
3405_Barry 4A		312899	170884	210.5	23.8	20.1	19.8	-0.33	Negligible	14.4	14.2	-0.20	Negligible
3416_Barry 4A		312907	170889	220.5	23.7	20.0	19.7	-0.32	Negligible	14.3	14.1	-0.19	Negligible
3427_Barry 4B		Barry Woodlands SSSI (Pencoetre Wood, East of A4231)	312798	170655	8.3	58.8	45.2	44.8	-0.44	Slight Beneficial	28.4	27.7	-0.72
3438_Barry 4B	312802		170657	13.3	49.5	38.5	38.2	-0.40	Slight Beneficial	24.6	24.1	-0.55	Negligible
3449_Barry 4B	312807		170660	18.3	44.0	34.6	34.2	-0.37	Slight Beneficial	22.4	22.0	-0.46	Negligible
3450_Barry 4B	312811		170662	23.3	40.4	32.0	31.6	-0.35	Slight Beneficial	20.9	20.5	-0.40	Negligible
3461_Barry 4B	312816		170664	28.3	37.7	30.1	29.8	-0.34	Slight Beneficial	19.9	19.5	-0.36	Negligible
3472_Barry 4B	312820		170667	33.3	35.7	28.7	28.3	-0.33	Slight Beneficial	19.1	18.8	-0.33	Negligible
3483_Barry 4B	312825		170669	38.3	34.2	27.6	27.2	-0.32	Slight Beneficial	18.5	18.2	-0.31	Negligible
3494_Barry 4B	312829		170671	43.3	32.9	26.7	26.4	-0.31	Negligible	18.0	17.7	-0.29	Negligible
3505_Barry 4B	312833		170674	48.3	31.9	25.9	25.6	-0.31	Negligible	17.6	17.3	-0.28	Negligible
3516_Barry 4B	312838		170676	53.3	31.0	25.3	25.0	-0.30	Negligible	17.3	17.0	-0.27	Negligible
3527_Barry 4B	312842		170678	58.3	30.3	24.8	24.5	-0.30	Negligible	17.0	16.7	-0.26	Negligible
3538_Barry 4B	312847		170681	63.3	29.7	24.3	24.0	-0.30	Negligible	16.7	16.5	-0.25	Negligible
3549_Barry 4B	312851		170683	68.3	29.1	24.0	23.7	-0.29	Negligible	16.5	16.3	-0.24	Negligible
3550_Barry 4B	312855		170685	73.3	28.6	23.6	23.3	-0.29	Negligible	16.3	16.1	-0.23	Negligible
3561_Barry 4B	312860		170688	78.3	28.2	23.3	23.0	-0.29	Negligible	16.1	15.9	-0.23	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
3572_Barry 4B	Barry Woodlands SSSI (Lidmore Wood)	312864	170690	83.3	27.8	23.0	22.7	-0.28	Negligible	16.0	15.8	-0.22	Negligible
3583_Barry 4B		312869	170693	88.3	27.5	22.8	22.5	-0.28	Negligible	15.9	15.6	-0.22	Negligible
3594_Barry 4B		312873	170695	93.3	27.2	22.5	22.3	-0.28	Negligible	15.7	15.5	-0.21	Negligible
3605_Barry 4B		312878	170697	98.3	26.9	22.3	22.1	-0.28	Negligible	15.6	15.4	-0.21	Negligible
3616_Barry 4B		312882	170700	103.3	26.6	22.2	21.9	-0.27	Negligible	15.5	15.3	-0.20	Negligible
3627_Barry 4B		312886	170702	108.3	26.4	22.0	21.7	-0.27	Negligible	15.4	15.2	-0.20	Negligible
3638_Barry 4B		312895	170707	118.3	26.0	21.7	21.4	-0.27	Negligible	15.2	15.1	-0.19	Negligible
3649_Barry 4B		312904	170711	128.3	25.6	21.4	21.2	-0.26	Negligible	15.1	14.9	-0.19	Negligible
3650_Barry 4B		312913	170716	138.3	25.3	21.2	20.9	-0.26	Negligible	15.0	14.8	-0.18	Negligible
3661_Barry 4B		312922	170721	148.3	25.0	21.0	20.7	-0.26	Negligible	14.9	14.7	-0.18	Negligible
3672_Barry 4B		312931	170725	158.3	24.7	20.8	20.6	-0.25	Negligible	14.8	14.6	-0.17	Negligible
3683_Barry 4B		312939	170730	168.3	24.5	20.6	20.4	-0.25	Negligible	14.7	14.5	-0.17	Negligible
3694_Barry 4B		312948	170735	178.3	24.3	20.5	20.3	-0.24	Negligible	14.6	14.4	-0.16	Negligible
3705_Barry 4B		312957	170739	188.3	24.1	20.4	20.1	-0.24	Negligible	14.5	14.4	-0.16	Negligible
3716_Barry 4B		312966	170744	198.3	24.0	20.2	20.0	-0.24	Negligible	14.5	14.3	-0.16	Negligible
3727_Barry 4B	312975	170749	208.3	23.8	20.1	19.9	-0.23	Negligible	14.4	14.2	-0.15	Negligible	
3738_Barry 5A	Barry Woodlands SSSI (Lidmore Wood)	308726	169717	195.0	21.2	18.3	19.1	0.79	Negligible	13.4	13.8	0.41	Negligible
3749_Barry 5A		308729	169721	200.0	21.2	18.2	19.0	0.76	Negligible	13.4	13.8	0.39	Negligible
3750_Barry 5A		308732	169725	205.0	21.1	18.2	19.0	0.74	Negligible	13.4	13.8	0.38	Negligible
3761_Barry 5A		308734	169729	210.0	21.1	18.2	18.9	0.71	Negligible	13.4	13.7	0.36	Negligible
3772_Barry 5A		308737	169734	215.0	21.1	18.2	18.9	0.69	Negligible	13.4	13.7	0.35	Negligible
3783_Barry 5A		308740	169738	220.0	21.1	18.2	18.9	0.66	Negligible	13.4	13.7	0.34	Negligible
3794_Barry 5A		308743	169742	225.0	21.1	18.2	18.8	0.64	Negligible	13.4	13.7	0.33	Negligible
3805_Barry 5A		308746	169746	230.0	21.1	18.2	18.8	0.62	Negligible	13.3	13.7	0.32	Negligible
3816_Barry 5A		308749	169750	235.0	21.1	18.2	18.8	0.60	Negligible	13.3	13.6	0.31	Negligible
3827_Barry 5A		308751	169754	240.0	21.0	18.2	18.7	0.59	Negligible	13.3	13.6	0.30	Negligible
3838_Barry 5A		308754	169758	245.0	21.0	18.1	18.7	0.57	Negligible	13.3	13.6	0.29	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
3849_Barry 5A		308757	169762	250.0	21.0	18.1	18.7	0.55	Negligible	13.3	13.6	0.28	Negligible
3850_Barry 5A		308760	169767	255.0	21.0	18.1	18.7	0.54	Negligible	13.3	13.6	0.27	Negligible
3861_Barry 5A		308763	169771	260.0	21.0	18.1	18.6	0.52	Negligible	13.3	13.6	0.27	Negligible
3872_Barry 5A		308766	169775	265.0	21.0	18.1	18.6	0.51	Negligible	13.3	13.6	0.26	Negligible
3883_Barry 5A		308768	169779	270.0	21.0	18.1	18.6	0.50	Negligible	13.3	13.6	0.25	Negligible
3894_Barry 5A		308771	169783	275.0	21.0	18.1	18.6	0.49	Negligible	13.3	13.5	0.25	Negligible
3905_Barry 5A		308774	169787	280.0	21.0	18.1	18.6	0.47	Negligible	13.3	13.5	0.24	Negligible
3916_Barry 5A		308777	169791	285.0	21.0	18.1	18.5	0.46	Negligible	13.3	13.5	0.23	Negligible
3927_Barry 5A		308780	169795	290.0	21.0	18.1	18.5	0.45	Negligible	13.3	13.5	0.23	Negligible
3938_Barry 5A		308783	169800	295.0	20.9	18.1	18.5	0.44	Negligible	13.3	13.5	0.22	Negligible
3949_Barry 5A		308788	169808	305.0	20.9	18.0	18.5	0.42	Negligible	13.3	13.5	0.21	Negligible
3950_Barry 5A		308794	169816	315.0	20.9	18.0	18.4	0.40	Negligible	13.3	13.5	0.20	Negligible
3961_Barry 5A		308799	169824	325.0	20.9	18.0	18.4	0.39	Negligible	13.3	13.4	0.19	Negligible
3972_Barry 5A		308805	169833	335.0	20.9	18.0	18.4	0.37	Negligible	13.2	13.4	0.19	Negligible
3983_Barry 5A		308811	169841	345.0	20.9	18.0	18.4	0.36	Negligible	13.2	13.4	0.18	Negligible
3994_Barry 5A		308816	169849	355.0	20.9	18.0	18.3	0.34	Negligible	13.2	13.4	0.17	Negligible
4005_Barry 5A		308822	169857	365.0	20.9	18.0	18.3	0.33	Negligible	13.2	13.4	0.17	Negligible
4016_Barry 5A		308828	169866	375.0	20.9	18.0	18.3	0.32	Negligible	13.2	13.4	0.16	Negligible
4027_Barry 5A		308833	169874	385.0	20.8	18.0	18.3	0.31	Negligible	13.2	13.4	0.15	Negligible
4038_Barry 5A		308839	169882	395.0	20.8	18.0	18.3	0.30	Negligible	13.2	13.4	0.15	Negligible
4049_Barry 5B	Barry Woodlands SSSI (Lidmore Wood)	308665	169764	215.0	21.1	18.2	19.0	0.78	Negligible	13.4	13.8	0.40	Negligible
4050_Barry 5B		308668	169768	220.0	21.1	18.2	18.9	0.75	Negligible	13.4	13.7	0.39	Negligible
4061_Barry 5B		308671	169772	225.0	21.1	18.2	18.9	0.72	Negligible	13.4	13.7	0.37	Negligible
4072_Barry 5B		308673	169776	230.0	21.1	18.2	18.9	0.70	Negligible	13.3	13.7	0.36	Negligible
4083_Barry 5B		308676	169781	235.0	21.1	18.2	18.8	0.68	Negligible	13.3	13.7	0.35	Negligible
4094_Barry 5B		308679	169785	240.0	21.0	18.1	18.8	0.66	Negligible	13.3	13.7	0.34	Negligible
4105_Barry 5B		308682	169789	245.0	21.0	18.1	18.8	0.64	Negligible	13.3	13.7	0.33	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
4116_Barry 5B		308685	169793	250.0	21.0	18.1	18.7	0.62	Negligible	13.3	13.6	0.32	Negligible
4127_Barry 5B		308688	169797	255.0	21.0	18.1	18.7	0.60	Negligible	13.3	13.6	0.31	Negligible
4138_Barry 5B		308690	169801	260.0	21.0	18.1	18.7	0.59	Negligible	13.3	13.6	0.30	Negligible
4149_Barry 5B		308693	169805	265.0	21.0	18.1	18.7	0.57	Negligible	13.3	13.6	0.29	Negligible
4150_Barry 5B		308696	169809	270.0	21.0	18.1	18.6	0.55	Negligible	13.3	13.6	0.28	Negligible
4161_Barry 5B		308699	169814	275.0	21.0	18.1	18.6	0.54	Negligible	13.3	13.6	0.28	Negligible
4172_Barry 5B		308702	169818	280.0	21.0	18.1	18.6	0.53	Negligible	13.3	13.6	0.27	Negligible
4183_Barry 5B		308705	169822	285.0	21.0	18.1	18.6	0.51	Negligible	13.3	13.5	0.26	Negligible
4194_Barry 5B		308707	169826	290.0	20.9	18.1	18.6	0.50	Negligible	13.3	13.5	0.26	Negligible
4205_Barry 5B		308710	169830	295.0	20.9	18.1	18.5	0.49	Negligible	13.3	13.5	0.25	Negligible
4216_Barry 5B		308713	169834	300.0	20.9	18.0	18.5	0.48	Negligible	13.3	13.5	0.24	Negligible
4227_Barry 5B		308716	169838	305.0	20.9	18.0	18.5	0.47	Negligible	13.3	13.5	0.24	Negligible
4238_Barry 5B		308719	169842	310.0	20.9	18.0	18.5	0.46	Negligible	13.3	13.5	0.23	Negligible
4249_Barry 5B		308722	169847	315.0	20.9	18.0	18.5	0.45	Negligible	13.3	13.5	0.23	Negligible
4250_Barry 5B		308727	169855	325.0	20.9	18.0	18.4	0.43	Negligible	13.2	13.5	0.22	Negligible
4261_Barry 5B		308733	169863	335.0	20.9	18.0	18.4	0.41	Negligible	13.2	13.5	0.21	Negligible
4272_Barry 5B		308738	169871	345.0	20.9	18.0	18.4	0.39	Negligible	13.2	13.4	0.20	Negligible
4283_Barry 5B		308744	169880	355.0	20.9	18.0	18.4	0.38	Negligible	13.2	13.4	0.19	Negligible
4294_Barry 5B		308750	169888	365.0	20.9	18.0	18.3	0.37	Negligible	13.2	13.4	0.18	Negligible
4305_Barry 5B		308755	169896	375.0	20.8	18.0	18.3	0.35	Negligible	13.2	13.4	0.18	Negligible
4316_Barry 5B		308761	169904	385.0	20.8	18.0	18.3	0.34	Negligible	13.2	13.4	0.17	Negligible
4327_Barry 5B		308767	169913	395.0	20.8	18.0	18.3	0.33	Negligible	13.2	13.4	0.17	Negligible
4338_Barry 5B		308772	169921	405.0	20.8	17.9	18.3	0.32	Negligible	13.2	13.4	0.16	Negligible
4349_Barry 5B		308778	169929	415.0	20.8	17.9	18.2	0.31	Negligible	13.2	13.4	0.15	Negligible
4350_Barry 5C	Barry Woodlands SSSI (Lidmore)	308625	169839	269.0	21.0	18.1	18.7	0.63	Negligible	13.3	13.6	0.32	Negligible
4361_Barry 5C		308628	169843	274.0	21.0	18.1	18.7	0.61	Negligible	13.3	13.6	0.32	Negligible
4372_Barry 5C		308631	169847	279.0	21.0	18.1	18.7	0.60	Negligible	13.3	13.6	0.31	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
4383_Barry 5C	Wood)	308633	169851	284.0	21.0	18.1	18.6	0.58	Negligible	13.3	13.6	0.30	Negligible
4394_Barry 5C		308636	169856	289.0	20.9	18.1	18.6	0.57	Negligible	13.3	13.6	0.29	Negligible
4405_Barry 5C		308639	169860	294.0	20.9	18.1	18.6	0.55	Negligible	13.3	13.6	0.28	Negligible
4416_Barry 5C		308642	169864	299.0	20.9	18.0	18.6	0.54	Negligible	13.3	13.5	0.28	Negligible
4427_Barry 5C		308645	169868	304.0	20.9	18.0	18.6	0.53	Negligible	13.3	13.5	0.27	Negligible
4438_Barry 5C		308648	169872	309.0	20.9	18.0	18.5	0.51	Negligible	13.3	13.5	0.26	Negligible
4449_Barry 5C		308650	169876	314.0	20.9	18.0	18.5	0.50	Negligible	13.3	13.5	0.26	Negligible
4450_Barry 5C		308653	169880	319.0	20.9	18.0	18.5	0.49	Negligible	13.3	13.5	0.25	Negligible
4461_Barry 5C		308656	169884	324.0	20.9	18.0	18.5	0.48	Negligible	13.2	13.5	0.24	Negligible
4472_Barry 5C		308659	169889	329.0	20.9	18.0	18.5	0.47	Negligible	13.2	13.5	0.24	Negligible
4483_Barry 5C		308662	169893	334.0	20.9	18.0	18.5	0.46	Negligible	13.2	13.5	0.23	Negligible
4494_Barry 5C		308665	169897	339.0	20.9	18.0	18.4	0.45	Negligible	13.2	13.5	0.23	Negligible
4505_Barry 5C		308667	169901	344.0	20.9	18.0	18.4	0.44	Negligible	13.2	13.5	0.22	Negligible
4516_Barry 5C		308670	169905	349.0	20.9	18.0	18.4	0.43	Negligible	13.2	13.5	0.22	Negligible
4527_Barry 5C		308673	169909	354.0	20.9	18.0	18.4	0.42	Negligible	13.2	13.4	0.22	Negligible
4538_Barry 5C		308676	169913	359.0	20.9	18.0	18.4	0.42	Negligible	13.2	13.4	0.21	Negligible
4549_Barry 5C		308679	169917	364.0	20.9	18.0	18.4	0.41	Negligible	13.2	13.4	0.21	Negligible
4550_Barry 5C		308682	169922	369.0	20.8	18.0	18.4	0.40	Negligible	13.2	13.4	0.20	Negligible
4561_Barry 5C		308687	169930	379.0	20.8	18.0	18.3	0.39	Negligible	13.2	13.4	0.20	Negligible
4572_Barry 5C		308693	169938	389.0	20.8	18.0	18.3	0.37	Negligible	13.2	13.4	0.19	Negligible
4583_Barry 5C		308698	169946	399.0	20.8	17.9	18.3	0.36	Negligible	13.2	13.4	0.18	Negligible
4594_Barry 5C		308704	169955	409.0	20.8	17.9	18.3	0.35	Negligible	13.2	13.4	0.18	Negligible
4605_Barry 5C		308710	169963	419.0	20.8	17.9	18.3	0.34	Negligible	13.2	13.4	0.17	Negligible
4616_Barry 5C		308715	169971	429.0	20.8	17.9	18.3	0.33	Negligible	13.2	13.4	0.16	Negligible
4627_Barry 5C		308721	169979	439.0	20.8	17.9	18.2	0.32	Negligible	13.2	13.4	0.16	Negligible
4638_Barry 5C		308727	169988	449.0	20.8	17.9	18.2	0.31	Negligible	13.2	13.3	0.15	Negligible
4649_Barry 5C		308732	169996	459.0	20.8	17.9	18.2	0.30	Negligible	13.2	13.3	0.15	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
4650_Barry 5C		308738	170004	469.0	20.8	17.9	18.2	0.29	Negligible	13.2	13.3	0.15	Negligible
4661_Cwm TalwgA	Cwm Talwg LNR (South of A4050)	310276	168888	62.0	26.2	22.3	21.3	-0.97	Negligible	16.0	15.3	-0.68	Negligible
4672_Cwm TalwgA		310280	168884	67.0	25.9	22.0	21.1	-0.90	Negligible	15.8	15.2	-0.64	Negligible
4683_Cwm TalwgA		310283	168881	72.0	25.6	21.8	21.0	-0.84	Negligible	15.6	15.1	-0.59	Negligible
4694_Cwm TalwgA		310286	168877	77.0	25.3	21.6	20.8	-0.79	Negligible	15.5	15.0	-0.56	Negligible
4705_Cwm TalwgA		310290	168874	82.0	25.1	21.4	20.7	-0.74	Negligible	15.4	14.9	-0.52	Negligible
4716_Cwm TalwgA		310293	168870	87.0	24.9	21.3	20.6	-0.70	Negligible	15.3	14.8	-0.50	Negligible
4727_Cwm TalwgA		310297	168867	92.0	24.8	21.1	20.5	-0.66	Negligible	15.2	14.7	-0.47	Negligible
4738_Cwm TalwgA		310300	168863	97.0	24.6	21.0	20.4	-0.62	Negligible	15.1	14.7	-0.44	Negligible
4749_Cwm TalwgA		310304	168859	102.0	24.4	20.9	20.3	-0.59	Negligible	15.0	14.6	-0.42	Negligible
4750_Cwm TalwgA		310307	168856	107.0	24.3	20.8	20.2	-0.56	Negligible	15.0	14.6	-0.40	Negligible
4761_Cwm TalwgA		310311	168852	112.0	24.2	20.7	20.1	-0.54	Negligible	14.9	14.5	-0.38	Negligible
4772_Cwm TalwgA		310314	168849	117.0	24.1	20.6	20.1	-0.51	Negligible	14.8	14.5	-0.37	Negligible
4783_Cwm TalwgA		310318	168845	122.0	24.0	20.5	20.0	-0.49	Negligible	14.8	14.4	-0.35	Negligible
4794_Cwm TalwgA		310321	168841	127.0	23.9	20.4	19.9	-0.47	Negligible	14.7	14.4	-0.34	Negligible
4805_Cwm TalwgA		310325	168838	132.0	23.8	20.3	19.9	-0.45	Negligible	14.7	14.4	-0.32	Negligible
4816_Cwm TalwgA		310328	168834	137.0	23.7	20.3	19.8	-0.43	Negligible	14.6	14.3	-0.31	Negligible
4827_Cwm		310332	168831	142.0	23.6	20.2	19.8	-0.41	Negligible	14.6	14.3	-0.30	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr)									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
TalwgA													
4838_Cwm TalwgA		310335	168827	147.0	23.6	20.1	19.7	-0.39	Negligible	14.6	14.3	-0.29	Negligible
4849_Cwm TalwgA		310315	168926	247.9	25.5	21.7	20.9	-0.81	Negligible	15.6	15.0	-0.57	Negligible
4850_Cwm TalwgB		310319	168922	75.6	25.2	21.5	20.7	-0.76	Negligible	15.4	14.9	-0.54	Negligible
4861_Cwm TalwgB		310322	168919	80.6	25.0	21.3	20.6	-0.72	Negligible	15.3	14.8	-0.51	Negligible
4872_Cwm TalwgB		310325	168915	85.6	24.8	21.2	20.5	-0.68	Negligible	15.2	14.8	-0.48	Negligible
4883_Cwm TalwgB		310329	168912	90.6	24.7	21.0	20.4	-0.64	Negligible	15.2	14.7	-0.46	Negligible
4894_Cwm TalwgB	Cwm Talwg LNR (South of A4050)	310332	168908	95.6	24.5	20.9	20.3	-0.61	Negligible	15.1	14.6	-0.43	Negligible
4905_Cwm TalwgB		310336	168905	100.6	24.4	20.8	20.2	-0.58	Negligible	15.0	14.6	-0.41	Negligible
4916_Cwm TalwgB		310339	168901	105.6	24.3	20.7	20.2	-0.55	Negligible	14.9	14.5	-0.39	Negligible
4927_Cwm TalwgB		310343	168897	110.6	24.1	20.6	20.1	-0.53	Negligible	14.9	14.5	-0.38	Negligible
4938_Cwm TalwgB		310346	168894	115.6	24.0	20.5	20.0	-0.50	Negligible	14.8	14.5	-0.36	Negligible
4949_Cwm TalwgB		310350	168890	120.6	23.9	20.4	20.0	-0.48	Negligible	14.8	14.4	-0.35	Negligible

Table A6.4.6 Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1_Barry 1A	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309181	169102	4.2	33.4	35.6	49.3	13.73	Substantial Adverse	32.9	43.8	10.99	Substantial Adverse
2_Barry 1A		309185	169105	9.2	29.6	31.2	39.8	8.69	Substantial Adverse	28.4	35.4	6.91	Substantial Adverse
3_Barry 1A		309189	169108	14.2	27.6	28.8	35.3	6.45	Substantial Adverse	26.1	31.2	5.11	Substantial Adverse
4_Barry 1A		309193	169111	19.2	26.4	27.4	32.6	5.15	Substantial Adverse	24.7	28.8	4.07	Moderate Adverse
5_Barry 1A		309197	169114	24.2	25.5	26.4	30.7	4.29	Substantial Adverse	23.7	27.1	3.39	Moderate Adverse
6_Barry 1A		309201	169117	29.2	24.9	25.7	29.4	3.67	Moderate Adverse	23.0	25.9	2.90	Slight Adverse
7_Barry 1A		309205	169120	34.2	24.5	25.1	28.4	3.21	Moderate Adverse	22.4	25.0	2.53	Slight Adverse
8_Barry 1A		309209	169123	39.2	24.1	24.7	27.6	2.85	Moderate Adverse	22.0	24.2	2.24	Slight Adverse
9_Barry 1A		309213	169126	44.2	23.8	24.3	26.9	2.57	Slight Adverse	21.6	23.6	2.01	Slight Adverse
10_Barry 1A		309217	169129	49.2	23.5	24.1	26.4	2.33	Slight Adverse	21.3	23.2	1.82	Slight Adverse
11_Barry 1A		309221	169132	54.2	23.3	23.8	25.9	2.13	Slight Adverse	21.1	22.7	1.67	Slight Adverse
12_Barry 1A		309225	169135	59.2	23.1	23.6	25.6	1.97	Slight Adverse	20.9	22.4	1.53	Negligible
13_Barry 1A		309229	169138	64.2	23.0	23.4	25.2	1.82	Slight Adverse	20.7	22.1	1.42	Negligible
14_Barry 1A		309233	169141	69.2	22.8	23.3	24.9	1.70	Slight Adverse	20.5	21.8	1.32	Negligible
15_Barry 1A		309237	169144	74.2	22.7	23.1	24.7	1.59	Slight Adverse	20.4	21.6	1.23	Negligible
16_Barry 1A		309241	169147	79.2	22.6	23.0	24.5	1.49	Negligible	20.3	21.4	1.16	Negligible
17_Barry 1A		309245	169150	84.2	22.5	22.9	24.3	1.41	Negligible	20.1	21.2	1.09	Negligible
18_Barry 1A		309249	169153	89.2	22.4	22.8	24.1	1.33	Negligible	20.0	21.1	1.03	Negligible
19_Barry 1A		309253	169156	94.2	22.4	22.7	23.9	1.26	Negligible	20.0	20.9	0.97	Negligible
20_Barry 1A		309257	169159	99.2	22.3	22.6	23.8	1.20	Negligible	19.9	20.8	0.92	Negligible
21_Barry 1A		309265	169164	109.2	22.2	22.5	23.5	1.09	Negligible	19.7	20.6	0.83	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
22_Barry 1A		309273	169170	119.2	22.1	22.3	23.3	1.00	Negligible	19.6	20.4	0.76	Negligible
23_Barry 1A		309282	169176	129.2	22.0	22.2	23.1	0.92	Negligible	19.5	20.2	0.70	Negligible
24_Barry 1A		309290	169182	139.2	21.9	22.1	23.0	0.85	Negligible	19.4	20.0	0.65	Negligible
25_Barry 1A		309298	169188	149.2	21.8	22.1	22.8	0.79	Negligible	19.3	19.9	0.60	Negligible
26_Barry 1B	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309234	169040	2.4	36.3	38.9	57.3	18.37	Substantial Adverse	36.2	51.1	14.84	Substantial Adverse
27_Barry 1B		309238	169044	7.4	30.8	32.5	42.8	10.30	Substantial Adverse	29.8	38.1	8.25	Substantial Adverse
28_Barry 1B		309241	169047	12.4	28.3	29.6	36.9	7.32	Substantial Adverse	26.9	32.7	5.84	Substantial Adverse
29_Barry 1B		309245	169051	17.4	26.8	27.9	33.6	5.69	Substantial Adverse	25.2	29.7	4.54	Moderate Adverse
30_Barry 1B		309248	169054	22.4	25.9	26.8	31.4	4.66	Substantial Adverse	24.1	27.8	3.71	Moderate Adverse
31_Barry 1B		309252	169058	27.4	25.2	26.0	29.9	3.95	Moderate Adverse	23.3	26.4	3.14	Slight Adverse
32_Barry 1B		309255	169061	32.4	24.6	25.4	28.8	3.43	Moderate Adverse	22.6	25.4	2.72	Slight Adverse
33_Barry 1B		309259	169065	37.4	24.2	24.9	27.9	3.02	Moderate Adverse	22.2	24.6	2.39	Slight Adverse
34_Barry 1B		309263	169068	42.4	23.9	24.5	27.2	2.70	Moderate Adverse	21.8	23.9	2.13	Slight Adverse
35_Barry 1B		309266	169072	47.4	23.6	24.2	26.6	2.44	Slight Adverse	21.5	23.4	1.92	Slight Adverse
36_Barry 1B		309270	169075	52.4	23.4	23.9	26.2	2.22	Slight Adverse	21.2	23.0	1.75	Slight Adverse
37_Barry 1B		309273	169079	57.4	23.2	23.7	25.7	2.04	Slight Adverse	21.0	22.6	1.60	Slight Adverse
38_Barry 1B		309277	169082	62.4	23.1	23.5	25.4	1.88	Slight Adverse	20.8	22.3	1.48	Negligible
39_Barry 1B		309280	169086	67.4	22.9	23.4	25.1	1.75	Slight Adverse	20.6	22.0	1.37	Negligible
40_Barry 1B		309284	169089	72.4	22.8	23.2	24.8	1.63	Slight Adverse	20.5	21.8	1.27	Negligible
41_Barry 1B		309287	169093	77.4	22.7	23.1	24.6	1.53	Slight Adverse	20.3	21.5	1.19	Negligible
42_Barry 1B		309291	169096	82.4	22.6	23.0	24.4	1.44	Negligible	20.2	21.4	1.12	Negligible
43_Barry 1B		309295	169100	87.4	22.5	22.9	24.2	1.36	Negligible	20.1	21.2	1.06	Negligible
44_Barry 1B		309298	169103	92.4	22.4	22.8	24.0	1.29	Negligible	20.0	21.0	1.00	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
45_Barry 1B		309302	169107	97.4	22.3	22.7	23.9	1.22	Negligible	19.9	20.9	0.94	Negligible
46_Barry 1B		309305	169110	102.4	22.3	22.6	23.8	1.16	Negligible	19.9	20.8	0.90	Negligible
47_Barry 1B		309312	169117	112.4	22.2	22.5	23.5	1.05	Negligible	19.7	20.5	0.81	Negligible
48_Barry 1B		309320	169124	122.4	22.1	22.3	23.3	0.97	Negligible	19.6	20.3	0.74	Negligible
49_Barry 1B		309327	169131	132.4	22.0	22.2	23.1	0.89	Negligible	19.5	20.2	0.68	Negligible
50_Barry 1B		309334	169138	142.4	21.9	22.2	23.0	0.82	Negligible	19.4	20.0	0.63	Negligible
51_Barry 1B		309341	169145	152.4	21.8	22.1	22.8	0.77	Negligible	19.3	19.9	0.58	Negligible
52_Barry 1C	Barry Woodlands SSSI (Middleton Plantation, East of A4226)	309340	168927	1.2	39.7	42.8	59.3	16.45	Substantial Adverse	40.2	52.8	12.64	Substantial Adverse
53_Barry 1C		309344	168930	6.2	32.6	34.6	44.6	9.97	Substantial Adverse	32.0	39.7	7.71	Substantial Adverse
54_Barry 1C		309347	168934	11.2	29.3	30.8	37.8	7.02	Substantial Adverse	28.1	33.6	5.45	Substantial Adverse
55_Barry 1C		309351	168937	16.2	27.5	28.7	34.2	5.45	Substantial Adverse	26.0	30.3	4.24	Substantial Adverse
56_Barry 1C		309355	168940	21.2	26.4	27.4	31.8	4.46	Substantial Adverse	24.7	28.2	3.47	Moderate Adverse
57_Barry 1C		309359	168944	26.2	25.6	26.4	30.2	3.78	Substantial Adverse	23.8	26.7	2.94	Slight Adverse
58_Barry 1C		309362	168947	31.2	25.0	25.8	29.0	3.28	Moderate Adverse	23.1	25.6	2.55	Slight Adverse
59_Barry 1C		309366	168950	36.2	24.5	25.2	28.1	2.89	Moderate Adverse	22.5	24.8	2.25	Slight Adverse
60_Barry 1C		309370	168954	41.2	24.2	24.8	27.4	2.59	Moderate Adverse	22.1	24.1	2.01	Slight Adverse
61_Barry 1C		309373	168957	46.2	23.9	24.5	26.8	2.34	Slight Adverse	21.8	23.6	1.82	Slight Adverse
62_Barry 1C		309377	168961	51.2	23.6	24.2	26.3	2.13	Slight Adverse	21.5	23.1	1.66	Slight Adverse
63_Barry 1C		309381	168964	56.2	23.4	23.9	25.9	1.96	Slight Adverse	21.2	22.7	1.52	Slight Adverse
64_Barry 1C		309385	168967	61.2	23.3	23.7	25.5	1.81	Slight Adverse	21.0	22.4	1.40	Negligible
65_Barry 1C		309388	168971	66.2	23.1	23.6	25.2	1.68	Slight Adverse	20.8	22.1	1.30	Negligible
66_Barry 1C	309392	168974	71.2	23.0	23.4	25.0	1.57	Slight Adverse	20.7	21.9	1.22	Negligible	

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
67_Barry 1C		309396	168977	76.2	22.9	23.3	24.7	1.47	Negligible	20.5	21.7	1.14	Negligible
68_Barry 1C		309399	168981	81.2	22.8	23.1	24.5	1.39	Negligible	20.4	21.5	1.07	Negligible
69_Barry 1C		309403	168984	86.2	22.7	23.0	24.3	1.31	Negligible	20.3	21.3	1.01	Negligible
70_Barry 1C		309407	168987	91.2	22.6	22.9	24.2	1.24	Negligible	20.2	21.2	0.95	Negligible
71_Barry 1C		309410	168991	96.2	22.5	22.8	24.0	1.17	Negligible	20.1	21.0	0.90	Negligible
72_Barry 1C		309414	168994	101.2	22.4	22.8	23.9	1.11	Negligible	20.0	20.9	0.85	Negligible
73_Barry 1C		309422	169001	111.2	22.3	22.6	23.6	1.01	Negligible	19.9	20.7	0.77	Negligible
74_Barry 1C		309429	169007	121.2	22.2	22.5	23.4	0.92	Negligible	19.8	20.5	0.70	Negligible
75_Barry 1C		309436	169014	131.2	22.1	22.4	23.2	0.85	Negligible	19.7	20.3	0.65	Negligible
76_Barry 1C		309444	169021	141.2	22.0	22.3	23.1	0.79	Negligible	19.6	20.2	0.59	Negligible
77_Barry 1C		309451	169028	151.2	22.0	22.2	23.0	0.73	Negligible	19.5	20.1	0.55	Negligible
78_Barry 2A	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309070	169197	4.4	30.8	32.7	41.3	8.64	Substantial Adverse	29.9	36.9	7.07	Substantial Adverse
79_Barry 2A		309066	169194	9.4	27.7	29.1	34.3	5.29	Substantial Adverse	26.3	30.5	4.19	Substantial Adverse
80_Barry 2A		309062	169191	14.4	26.1	27.2	31.1	3.95	Substantial Adverse	24.4	27.5	3.09	Moderate Adverse
81_Barry 2A		309058	169187	19.4	25.1	26.0	29.2	3.21	Moderate Adverse	23.2	25.7	2.50	Slight Adverse
82_Barry 2A		309055	169184	24.4	24.5	25.2	27.9	2.73	Moderate Adverse	22.4	24.6	2.12	Slight Adverse
83_Barry 2A		309051	169181	29.4	24.0	24.6	27.0	2.39	Moderate Adverse	21.9	23.7	1.85	Slight Adverse
84_Barry 2A		309047	169178	34.4	23.6	24.2	26.3	2.13	Slight Adverse	21.4	23.1	1.64	Slight Adverse
85_Barry 2A		309043	169174	39.4	23.3	23.8	25.8	1.92	Slight Adverse	21.1	22.6	1.48	Negligible
86_Barry 2A		309040	169171	44.4	23.1	23.5	25.3	1.76	Slight Adverse	20.8	22.1	1.35	Negligible
87_Barry 2A		309036	169168	49.4	22.9	23.3	24.9	1.62	Slight Adverse	20.6	21.8	1.25	Negligible
88_Barry 2A		309032	169164	54.4	22.7	23.1	24.6	1.50	Negligible	20.4	21.5	1.16	Negligible
89_Barry 2A		309028	169161	59.4	22.6	22.9	24.3	1.40	Negligible	20.2	21.3	1.07	Negligible
90_Barry 2A		309025	169158	64.4	22.4	22.8	24.1	1.31	Negligible	20.1	21.1	1.01	Negligible
91_Barry 2A		309021	169154	69.4	22.3	22.7	23.9	1.23	Negligible	19.9	20.9	0.94	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
92_Barry 2A	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309017	169151	74.4	22.2	22.6	23.7	1.16	Negligible	19.8	20.7	0.89	Negligible
93_Barry 2A		309013	169148	79.4	22.1	22.5	23.6	1.09	Negligible	19.7	20.6	0.84	Negligible
94_Barry 2A		309009	169145	84.4	22.1	22.4	23.4	1.04	Negligible	19.6	20.4	0.80	Negligible
95_Barry 2A		309006	169141	89.4	22.0	22.3	23.3	0.99	Negligible	19.6	20.3	0.76	Negligible
96_Barry 2A		309002	169138	94.4	21.9	22.2	23.2	0.94	Negligible	19.5	20.2	0.72	Negligible
97_Barry 2A		308998	169135	99.4	21.9	22.2	23.1	0.90	Negligible	19.4	20.1	0.69	Negligible
980_Barry 2A		308991	169128	109.4	21.8	22.1	22.9	0.82	Negligible	19.3	19.9	0.63	Negligible
991_Barry 2A		308983	169121	119.4	21.7	22.0	22.7	0.76	Negligible	19.2	19.8	0.58	Negligible
1002_Barry 2A		308976	169115	129.4	21.6	21.9	22.6	0.70	Negligible	19.1	19.7	0.53	Negligible
1013_Barry 2A		308968	169108	139.4	21.6	21.8	22.5	0.65	Negligible	19.1	19.6	0.50	Negligible
1024_Barry 2A		308961	169102	149.4	21.5	21.7	22.4	0.61	Negligible	19.0	19.5	0.47	Negligible
1035_Barry 2A		308953	169095	159.4	21.5	21.7	22.3	0.57	Negligible	18.9	19.4	0.43	Negligible
1046_Barry 2A		308946	169089	169.4	21.4	21.6	22.2	0.54	Negligible	18.9	19.3	0.41	Negligible
1057_Barry 2A		308938	169082	179.4	21.4	21.6	22.1	0.51	Negligible	18.9	19.2	0.38	Negligible
1068_Barry 2A		308931	169075	189.4	21.4	21.6	22.0	0.48	Negligible	18.8	19.2	0.36	Negligible
1079_Barry 2A		308923	169069	199.4	21.3	21.5	22.0	0.45	Negligible	18.8	19.1	0.34	Negligible
1081_Barry 2B	Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309170	169079	4.4	31.8	33.9	43.3	9.44	Substantial Adverse	31.1	38.9	7.78	Substantial Adverse
1092_Barry 2B		309167	169075	9.4	28.2	29.6	35.9	6.27	Substantial Adverse	26.8	31.9	5.11	Substantial Adverse
1103_Barry 2B		309163	169072	14.4	26.4	27.5	32.3	4.76	Substantial Adverse	24.7	28.6	3.85	Moderate Adverse
1114_Barry 2B		309159	169069	19.4	25.4	26.2	30.1	3.85	Substantial Adverse	23.5	26.6	3.10	Slight Adverse
1125_Barry 2B		309155	169065	24.4	24.6	25.4	28.6	3.24	Moderate Adverse	22.7	25.3	2.60	Slight Adverse
1136_Barry 2B		309152	169062	29.4	24.1	24.8	27.6	2.80	Moderate Adverse	22.0	24.3	2.24	Slight Adverse
1147_Barry 2B		309148	169059	34.4	23.7	24.3	26.8	2.46	Slight Adverse	21.6	23.5	1.96	Slight Adverse
1158_Barry 2B		309144	169055	39.4	23.4	24.0	26.1	2.19	Slight Adverse	21.2	23.0	1.75	Slight Adverse

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1169_Barry 2B		309141	169052	44.4	23.2	23.7	25.6	1.98	Slight Adverse	20.9	22.5	1.57	Negligible
1170_Barry 2B		309137	169048	49.4	23.0	23.4	25.2	1.80	Slight Adverse	20.7	22.1	1.43	Negligible
1181_Barry 2B		309133	169045	54.4	22.8	23.2	24.9	1.65	Slight Adverse	20.5	21.8	1.31	Negligible
1192_Barry 2B		309130	169042	59.4	22.6	23.0	24.6	1.53	Slight Adverse	20.3	21.5	1.21	Negligible
1203_Barry 2B		309126	169038	64.4	22.5	22.9	24.3	1.42	Negligible	20.2	21.3	1.12	Negligible
1214_Barry 2B		309122	169035	69.4	22.4	22.8	24.1	1.32	Negligible	20.0	21.1	1.04	Negligible
1225_Barry 2B		309118	169032	74.4	22.3	22.7	23.9	1.24	Negligible	19.9	20.9	0.98	Negligible
1236_Barry 2B		309115	169028	79.4	22.2	22.6	23.7	1.17	Negligible	19.8	20.7	0.92	Negligible
1247_Barry 2B		309111	169025	84.4	22.2	22.5	23.6	1.10	Negligible	19.7	20.6	0.86	Negligible
1258_Barry 2B		309107	169022	89.4	22.1	22.4	23.4	1.04	Negligible	19.7	20.5	0.81	Negligible
1269_Barry 2B		309104	169018	94.4	22.0	22.3	23.3	0.98	Negligible	19.6	20.4	0.77	Negligible
1270_Barry 2B		309100	169015	99.4	22.0	22.3	23.2	0.94	Negligible	19.5	20.2	0.73	Negligible
1281_Barry 2B		309092	169008	109.4	21.9	22.1	23.0	0.85	Negligible	19.4	20.1	0.66	Negligible
1292_Barry 2B		309085	169002	119.4	21.8	22.0	22.8	0.78	Negligible	19.3	19.9	0.61	Negligible
1303_Barry 2B		309078	168995	129.4	21.7	22.0	22.7	0.72	Negligible	19.2	19.8	0.56	Negligible
1314_Barry 2B		309070	168988	139.4	21.7	21.9	22.6	0.66	Negligible	19.2	19.7	0.51	Negligible
1325_Barry 2B		309063	168981	149.4	21.6	21.8	22.5	0.62	Negligible	19.1	19.6	0.48	Negligible
1336_Barry 2B		309055	168975	159.4	21.6	21.8	22.4	0.58	Negligible	19.1	19.5	0.44	Negligible
1347_Barry 2B		309048	168968	169.4	21.5	21.7	22.3	0.54	Negligible	19.0	19.4	0.42	Negligible
1359_Barry 2C		Barry Woodlands SSSI (Middleton Plantation, West of A4226)	309288	168953	3.6	30.4	32.2	46.3	14.07	Substantial Adverse	29.5	41.7	12.22
1360_Barry 2C	309285		168950	8.6	27.7	29.0	37.1	8.15	Substantial Adverse	26.2	33.1	6.90	Substantial Adverse
1371_Barry 2C	309281		168947	13.6	26.2	27.3	33.1	5.83	Substantial Adverse	24.5	29.4	4.87	Moderate Adverse
1382_Barry 2C	309277		168943	18.6	25.3	26.2	30.7	4.55	Substantial Adverse	23.4	27.2	3.77	Moderate Adverse
1393_Barry 2C	309274		168940	23.6	24.7	25.4	29.1	3.74	Moderate Adverse	22.7	25.7	3.07	Slight Adverse

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1404_Barry 2C	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	309270	168937	28.6	24.2	24.9	28.0	3.16	Moderate Adverse	22.1	24.7	2.59	Slight Adverse
1415_Barry 2C		309266	168933	33.6	23.8	24.4	27.2	2.74	Moderate Adverse	21.7	23.9	2.23	Slight Adverse
1426_Barry 2C		309262	168930	38.6	23.5	24.1	26.5	2.42	Slight Adverse	21.4	23.3	1.96	Slight Adverse
1437_Barry 2C		309259	168926	43.6	23.3	23.8	26.0	2.16	Slight Adverse	21.1	22.8	1.74	Slight Adverse
1448_Barry 2C		309255	168923	48.6	23.1	23.6	25.5	1.95	Slight Adverse	20.9	22.4	1.57	Negligible
1459_Barry 2C		309251	168920	53.6	22.9	23.4	25.2	1.78	Slight Adverse	20.7	22.1	1.43	Negligible
1460_Barry 2C		309248	168916	58.6	22.8	23.2	24.9	1.63	Slight Adverse	20.5	21.8	1.31	Negligible
1471_Barry 2C		309244	168913	63.6	22.7	23.1	24.6	1.51	Slight Adverse	20.4	21.6	1.20	Negligible
1482_Barry 2C		309240	168909	68.6	22.6	23.0	24.4	1.40	Negligible	20.2	21.4	1.12	Negligible
1493_Barry 2C		309237	168906	73.6	22.5	22.9	24.2	1.31	Negligible	20.1	21.2	1.04	Negligible
1504_Barry 2C		309233	168903	78.6	22.4	22.8	24.0	1.22	Negligible	20.0	21.0	0.97	Negligible
1515_Barry 2C		309229	168899	83.6	22.3	22.7	23.8	1.15	Negligible	20.0	20.9	0.91	Negligible
1526_Barry 2C		309226	168896	88.6	22.3	22.6	23.7	1.08	Negligible	19.9	20.7	0.86	Negligible
1537_Barry 2C		309222	168893	93.6	22.2	22.5	23.6	1.03	Negligible	19.8	20.6	0.81	Negligible
1548_Barry 2C		309218	168889	98.6	22.2	22.5	23.4	0.97	Negligible	19.7	20.5	0.76	Negligible
1559_Barry 2C		309211	168882	108.6	22.1	22.4	23.2	0.88	Negligible	19.6	20.3	0.69	Negligible
1560_Barry 2C		309204	168876	118.6	22.0	22.3	23.1	0.80	Negligible	19.6	20.2	0.62	Negligible
1572_Barry 3A	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312545	170847	3.9	63.9	68.2	59.7	-8.47	Substantial Beneficial	66.0	57.2	-8.81	Substantial Beneficial
1583_Barry 3A		312549	170845	8.9	50.8	53.5	47.9	-5.68	Substantial Beneficial	51.1	45.0	-6.01	Substantial Beneficial
1594_Barry 3A		312553	170842	13.9	44.6	46.6	42.2	-4.36	Substantial Beneficial	44.0	39.3	-4.65	Substantial Beneficial
1605_Barry 3A		312558	170840	18.9	40.9	42.5	39.0	-3.58	Substantial Beneficial	39.8	36.0	-3.83	Substantial Beneficial
1616_Barry 3A		312562	170837	23.9	38.5	39.9	36.8	-3.05	Substantial Beneficial	37.0	33.8	-3.27	Substantial Beneficial
1627_Barry 3A		312566	170835	28.9	36.8	38.0	35.3	-2.67	Moderate	35.1	32.2	-2.87	Moderate Beneficial

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
									Beneficial				
1638_Barry 3A		312571	170832	33.9	35.6	36.6	34.2	-2.38	Moderate Beneficial	33.7	31.1	-2.56	Moderate Beneficial
1649_Barry 3A		312575	170830	38.9	34.7	35.5	33.3	-2.15	Moderate Beneficial	32.6	30.2	-2.32	Moderate Beneficial
1650_Barry 3A		312579	170827	43.9	33.9	34.7	32.7	-1.97	Moderate Beneficial	31.7	29.6	-2.13	Moderate Beneficial
1661_Barry 3A		312584	170825	48.9	33.3	34.0	32.2	-1.82	Moderate Beneficial	31.0	29.0	-1.96	Moderate Beneficial
1672_Barry 3A		312588	170822	53.9	32.9	33.5	31.8	-1.69	Moderate Beneficial	30.5	28.6	-1.83	Moderate Beneficial
1683_Barry 3A		312592	170819	58.9	32.5	33.1	31.5	-1.57	Moderate Beneficial	30.0	28.3	-1.71	Moderate Beneficial
1694_Barry 3A		312597	170817	63.9	32.2	32.7	31.3	-1.48	Slight Beneficial	29.7	28.1	-1.61	Moderate Beneficial
1705_Barry 3A		312601	170814	68.9	32.0	32.5	31.1	-1.39	Slight Beneficial	29.4	27.9	-1.52	Moderate Beneficial
1716_Barry 3A		312605	170812	73.9	31.9	32.3	30.9	-1.32	Slight Beneficial	29.2	27.7	-1.44	Slight Beneficial
1727_Barry 3A		312610	170809	78.9	31.8	32.1	30.9	-1.25	Slight Beneficial	29.0	27.6	-1.37	Slight Beneficial
1738_Barry 3A		312614	170807	83.9	31.7	32.0	30.8	-1.19	Slight Beneficial	28.9	27.6	-1.31	Slight Beneficial
1749_Barry 3A		312618	170804	88.9	31.7	32.0	30.9	-1.13	Slight Beneficial	28.8	27.6	-1.26	Slight Beneficial
1750_Barry 3A		312622	170802	93.9	31.7	32.0	30.9	-1.08	Slight Beneficial	28.8	27.6	-1.21	Slight Beneficial
1761_Barry 3A		312627	170799	98.9	31.8	32.0	31.0	-1.04	Slight Beneficial	28.8	27.7	-1.16	Slight Beneficial
1772_Barry 3A		312635	170794	108.9	32.1	32.3	31.3	-0.96	Slight Beneficial	29.0	28.0	-1.09	Slight Beneficial
1783_Barry 3A		312644	170789	118.9	32.6	32.7	31.8	-0.89	Slight Beneficial	29.4	28.4	-1.03	Slight Beneficial
1794_Barry 3A		312653	170784	128.9	33.3	33.4	32.5	-0.84	Slight Beneficial	30.0	29.0	-0.98	Slight Beneficial
1805_Barry 3A		312661	170779	138.9	34.3	34.3	33.5	-0.79	Slight Beneficial	30.9	29.9	-0.95	Slight Beneficial
1816_Barry 3A		312670	170774	148.9	35.6	35.6	34.8	-0.75	Slight Beneficial	32.1	31.1	-0.92	Slight Beneficial
1827_Barry 3A		312679	170769	158.9	37.6	37.4	36.7	-0.71	Slight Beneficial	33.8	32.9	-0.90	Slight Beneficial
1838_Barry 3A		312687	170764	168.9	40.3	40.0	39.4	-0.68	Slight Beneficial	36.2	35.3	-0.89	Slight Beneficial

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
1849_Barry 3A		312696	170759	178.9	44.4	44.0	43.4	-0.66	Slight Beneficial	39.9	39.0	-0.90	Slight Beneficial
1850_Barry 3A		312705	170754	188.9	51.5	50.9	50.2	-0.65	Slight Beneficial	46.2	45.3	-0.91	Slight Beneficial
1861_Barry 3A		312713	170749	198.9	66.7	65.5	64.9	-0.64	Slight Beneficial	59.6	58.7	-0.91	Slight Beneficial
1872_Barry 3B	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312484	170754	1.2	72.1	77.7	67.3	-10.44	Substantial Beneficial	76.0	65.1	-10.83	Substantial Beneficial
1883_Barry 3B		312488	170751	6.2	53.8	57.3	50.6	-6.60	Substantial Beneficial	55.1	48.1	-7.00	Substantial Beneficial
1894_Barry 3B		312493	170749	11.2	44.8	47.3	42.5	-4.73	Substantial Beneficial	44.9	39.8	-5.08	Substantial Beneficial
1905_Barry 3B		312497	170746	16.2	40.0	41.8	38.1	-3.71	Substantial Beneficial	39.4	35.4	-4.03	Substantial Beneficial
1916_Barry 3B		312501	170744	21.2	36.9	38.4	35.4	-3.08	Substantial Beneficial	35.9	32.5	-3.35	Substantial Beneficial
1927_Barry 3B		312506	170741	26.2	34.8	36.1	33.5	-2.64	Moderate Beneficial	33.5	30.6	-2.88	Moderate Beneficial
1938_Barry 3B		312510	170739	31.2	33.3	34.4	32.1	-2.32	Moderate Beneficial	31.7	29.2	-2.54	Moderate Beneficial
1949_Barry 3B		312514	170736	36.2	32.1	33.1	31.0	-2.07	Moderate Beneficial	30.4	28.1	-2.27	Moderate Beneficial
1950_Barry 3B		312519	170734	41.2	31.2	32.1	30.2	-1.88	Moderate Beneficial	29.4	27.3	-2.06	Moderate Beneficial
1961_Barry 3B		312523	170731	46.2	30.5	31.3	29.5	-1.72	Moderate Beneficial	28.5	26.6	-1.89	Slight Beneficial
1972_Barry 3B		312527	170729	51.2	29.9	30.6	29.0	-1.59	Moderate Beneficial	27.8	26.1	-1.75	Slight Beneficial
1983_Barry 3B		312532	170726	56.2	29.3	30.0	28.5	-1.48	Slight Beneficial	27.2	25.6	-1.62	Slight Beneficial
1994_Barry 3B		312536	170724	61.2	28.9	29.5	28.2	-1.38	Slight Beneficial	26.7	25.2	-1.52	Slight Beneficial
2005_Barry 3B		312540	170721	66.2	28.5	29.1	27.8	-1.30	Slight Beneficial	26.3	24.9	-1.43	Negligible
2016_Barry 3B		312544	170719	71.2	28.2	28.8	27.5	-1.22	Slight Beneficial	26.0	24.6	-1.35	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
2027_Barry 3B		312549	170716	76.2	28.0	28.5	27.3	-1.16	Slight Beneficial	25.6	24.4	-1.28	Negligible
2038_Barry 3B		312553	170714	81.2	27.7	28.2	27.1	-1.10	Slight Beneficial	25.3	24.1	-1.21	Negligible
2049_Barry 3B		312557	170711	86.2	27.5	28.0	26.9	-1.05	Negligible	25.1	23.9	-1.16	Negligible
2050_Barry 3B		312562	170709	91.2	27.3	27.8	26.8	-1.00	Negligible	24.9	23.8	-1.11	Negligible
2061_Barry 3B		312566	170706	96.2	27.2	27.6	26.6	-0.96	Negligible	24.7	23.6	-1.06	Negligible
2072_Barry 3B		312570	170704	101.2	27.0	27.4	26.5	-0.92	Negligible	24.5	23.5	-1.02	Negligible
2083_Barry 3B		312579	170699	111.2	26.8	27.2	26.3	-0.85	Negligible	24.3	23.3	-0.95	Negligible
2094_Barry 3B		312588	170694	121.2	26.6	26.9	26.2	-0.80	Negligible	24.0	23.2	-0.88	Negligible
2105_Barry 3B		312596	170689	131.2	26.5	26.8	26.0	-0.74	Negligible	23.9	23.0	-0.83	Negligible
2116_Barry 3B		312605	170683	141.2	26.4	26.7	26.0	-0.70	Negligible	23.7	23.0	-0.78	Negligible
2127_Barry 3B		312614	170678	151.2	26.4	26.6	25.9	-0.66	Negligible	23.7	22.9	-0.74	Negligible
2138_Barry 3B		312622	170673	161.2	26.3	26.6	25.9	-0.63	Negligible	23.6	22.9	-0.71	Negligible
2149_Barry 3B		312631	170668	171.2	26.4	26.5	26.0	-0.59	Negligible	23.6	22.9	-0.67	Negligible
2150_Barry 3B		312639	170663	181.2	26.4	26.6	26.0	-0.57	Negligible	23.6	22.9	-0.65	Negligible
2161_Barry 3B		312648	170658	191.2	26.4	26.6	26.1	-0.54	Negligible	23.6	23.0	-0.62	Negligible
2172_Barry 3B	312657	170653	201.2	26.5	26.7	26.1	-0.52	Negligible	23.7	23.1	-0.60	Negligible	
2183_Barry 3C	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312439	170680	1.9	70.5	76.0	65.8	-10.16	Substantial Beneficial	74.3	63.7	-10.59	Substantial Beneficial
2194_Barry 3C		312443	170677	6.9	52.1	55.4	49.1	-6.29	Substantial Beneficial	53.3	46.6	-6.72	Substantial Beneficial
2205_Barry 3C		312448	170675	11.9	43.7	46.1	41.6	-4.56	Substantial Beneficial	43.8	38.9	-4.94	Substantial Beneficial
2216_Barry 3C		312452	170672	16.9	39.1	41.0	37.4	-3.61	Substantial Beneficial	38.6	34.7	-3.94	Substantial Beneficial
2227_Barry 3C		312456	170670	21.9	36.2	37.7	34.7	-3.00	Moderate Beneficial	35.2	31.9	-3.29	Substantial Beneficial
2238_Barry 3C		312460	170667	26.9	34.1	35.4	32.8	-2.57	Moderate Beneficial	32.9	30.0	-2.83	Moderate Beneficial

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
2249_Barry 3C		312465	170664	31.9	32.6	33.7	31.5	-2.26	Moderate Beneficial	31.1	28.7	-2.49	Moderate Beneficial
2250_Barry 3C		312469	170662	36.9	31.4	32.4	30.4	-2.02	Moderate Beneficial	29.8	27.6	-2.23	Moderate Beneficial
2261_Barry 3C		312473	170659	41.9	30.5	31.4	29.6	-1.83	Moderate Beneficial	28.8	26.8	-2.02	Slight Beneficial
2272_Barry 3C		312477	170657	46.9	29.8	30.6	28.9	-1.67	Moderate Beneficial	27.9	26.1	-1.85	Slight Beneficial
2283_Barry 3C		312482	170654	51.9	29.2	29.9	28.4	-1.54	Moderate Beneficial	27.2	25.5	-1.71	Slight Beneficial
2294_Barry 3C		312486	170651	56.9	28.6	29.3	27.9	-1.43	Slight Beneficial	26.6	25.0	-1.59	Slight Beneficial
2305_Barry 3C		312490	170649	61.9	28.2	28.9	27.5	-1.34	Slight Beneficial	26.1	24.6	-1.48	Negligible
2316_Barry 3C		312495	170646	66.9	27.8	28.4	27.2	-1.26	Slight Beneficial	25.7	24.3	-1.39	Negligible
2327_Barry 3C		312499	170644	71.9	27.5	28.1	26.9	-1.19	Negligible	25.3	24.0	-1.31	Negligible
2338_Barry 3C		312503	170641	76.9	27.2	27.7	26.6	-1.12	Negligible	25.0	23.7	-1.24	Negligible
2349_Barry 3C		312507	170639	81.9	26.9	27.4	26.4	-1.07	Negligible	24.7	23.5	-1.18	Negligible
2350_Barry 3C		312512	170636	86.9	26.7	27.2	26.2	-1.01	Negligible	24.4	23.3	-1.12	Negligible
2361_Barry 3C		312516	170633	91.9	26.5	27.0	26.0	-0.97	Negligible	24.2	23.1	-1.07	Negligible
2372_Barry 3C		312520	170631	96.9	26.3	26.8	25.8	-0.93	Negligible	23.9	22.9	-1.03	Negligible
2383_Barry 3C		312525	170628	101.9	26.2	26.6	25.7	-0.89	Negligible	23.8	22.8	-0.99	Negligible
2394_Barry 3C		312533	170623	111.9	25.9	26.3	25.4	-0.82	Negligible	23.4	22.5	-0.91	Negligible
2405_Barry 3C		312542	170618	121.9	25.7	26.0	25.2	-0.77	Negligible	23.2	22.3	-0.85	Negligible
2416_Barry 3C		312550	170613	131.9	25.5	25.8	25.1	-0.72	Negligible	22.9	22.1	-0.80	Negligible
2427_Barry 3C		312559	170607	141.9	25.3	25.6	24.9	-0.67	Negligible	22.8	22.0	-0.75	Negligible
2438_Barry 3C		312567	170602	151.9	25.2	25.5	24.8	-0.64	Negligible	22.6	21.9	-0.71	Negligible
2449_Barry 3C		312576	170597	161.9	25.1	25.3	24.7	-0.60	Negligible	22.5	21.8	-0.67	Negligible
2450_Barry 3C		312584	170592	171.9	25.0	25.2	24.7	-0.57	Negligible	22.3	21.7	-0.64	Negligible
2461_Barry 3C		312593	170587	181.9	24.9	25.1	24.6	-0.54	Negligible	22.3	21.6	-0.61	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
2472_Barry 3C	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312601	170581	191.9	24.9	25.1	24.6	-0.52	Negligible	22.2	21.6	-0.59	Negligible
2483_Barry 3C		312610	170576	201.9	24.8	25.0	24.5	-0.50	Negligible	22.1	21.6	-0.56	Negligible
2494_Barry 3D		312718	170717	16.4	41.5	41.2	40.6	-0.54	Slight Beneficial	37.2	36.4	-0.77	Slight Beneficial
2505_Barry 3D		312714	170714	21.4	38.1	37.8	37.3	-0.54	Slight Beneficial	34.1	33.4	-0.74	Slight Beneficial
2516_Barry 3D		312709	170712	26.4	35.7	35.5	35.0	-0.54	Slight Beneficial	31.9	31.2	-0.72	Slight Beneficial
2527_Barry 3D		312705	170709	31.4	33.9	33.8	33.3	-0.53	Slight Beneficial	30.4	29.7	-0.70	Slight Beneficial
2538_Barry 3D		312701	170707	36.4	32.6	32.5	32.0	-0.53	Slight Beneficial	29.2	28.5	-0.69	Slight Beneficial
2549_Barry 3D		312697	170704	41.4	31.5	31.5	31.0	-0.53	Slight Beneficial	28.2	27.5	-0.68	Slight Beneficial
2550_Barry 3D		312692	170702	46.4	30.7	30.7	30.2	-0.53	Slight Beneficial	27.4	26.8	-0.67	Negligible
2561_Barry 3D		312688	170699	51.4	30.0	30.0	29.5	-0.54	Slight Beneficial	26.8	26.2	-0.66	Negligible
2572_Barry 3D		312684	170696	56.4	29.4	29.5	28.9	-0.54	Slight Beneficial	26.3	25.6	-0.66	Negligible
2583_Barry 3D		312679	170694	61.4	28.9	29.0	28.4	-0.54	Slight Beneficial	25.8	25.2	-0.65	Negligible
2594_Barry 3D		312675	170691	66.4	28.5	28.6	28.0	-0.54	Slight Beneficial	25.5	24.8	-0.65	Negligible
2605_Barry 3D		312671	170689	71.4	28.1	28.2	27.7	-0.55	Slight Beneficial	25.1	24.5	-0.65	Negligible
2616_Barry 3D		312667	170686	76.4	27.8	27.9	27.4	-0.55	Slight Beneficial	24.9	24.2	-0.65	Negligible
2627_Barry 3D		312662	170683	81.4	27.5	27.7	27.1	-0.55	Slight Beneficial	24.6	24.0	-0.65	Negligible
2638_Barry 3D		312658	170681	86.4	27.3	27.4	26.9	-0.56	Negligible	24.4	23.7	-0.65	Negligible
2649_Barry 3D		312654	170678	91.4	27.1	27.2	26.7	-0.56	Negligible	24.2	23.6	-0.65	Negligible
2650_Barry 3D		312650	170676	96.4	26.9	27.0	26.5	-0.57	Negligible	24.0	23.4	-0.65	Negligible
2661_Barry 3D		312645	170673	101.4	26.7	26.9	26.3	-0.57	Negligible	23.9	23.2	-0.65	Negligible
2672_Barry 3D		312641	170670	106.4	26.6	26.7	26.2	-0.57	Negligible	23.8	23.1	-0.66	Negligible
2683_Barry 3D		312637	170668	111.4	26.4	26.6	26.0	-0.58	Negligible	23.6	23.0	-0.66	Negligible
2694_Barry 3D		312632	170665	116.4	26.3	26.5	25.9	-0.58	Negligible	23.5	22.9	-0.66	Negligible
2705_Barry 3D		312624	170660	126.4	26.1	26.3	25.7	-0.60	Negligible	23.4	22.7	-0.67	Negligible
2716_Barry 3D		312615	170655	136.4	25.9	26.2	25.6	-0.61	Negligible	23.2	22.5	-0.68	Negligible
2727_Barry 3D		312607	170650	146.4	25.8	26.0	25.4	-0.62	Negligible	23.1	22.4	-0.70	Negligible
2738_Barry 3D		312598	170645	156.4	25.7	26.0	25.3	-0.63	Negligible	23.0	22.3	-0.71	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
2749_Barry 3D		312590	170639	166.4	25.6	25.9	25.2	-0.65	Negligible	23.0	22.3	-0.72	Negligible
2750_Barry 3D		312581	170634	176.4	25.6	25.9	25.2	-0.66	Negligible	23.0	22.2	-0.74	Negligible
2761_Barry 3D		312572	170629	186.4	25.5	25.8	25.1	-0.68	Negligible	23.0	22.2	-0.76	Negligible
2772_Barry 3D		312564	170624	196.4	25.5	25.8	25.1	-0.70	Negligible	23.0	22.2	-0.78	Negligible
2783_Barry 3D		312555	170619	206.4	25.5	25.8	25.1	-0.71	Negligible	23.0	22.2	-0.80	Negligible
2794_Barry 3D		312547	170614	216.4	25.5	25.9	25.1	-0.73	Negligible	23.0	22.2	-0.82	Negligible
2805_Barry 3E	Barry Woodlands SSSI (Pencoetre Wood, South of A4050)	312779	170633	7.4	55.0	54.1	53.6	-0.43	Slight Beneficial	49.2	48.4	-0.75	Slight Beneficial
2816_Barry 3E		312775	170631	12.4	45.7	45.2	44.8	-0.41	Slight Beneficial	40.9	40.2	-0.69	Slight Beneficial
2827_Barry 3E		312770	170628	17.4	40.6	40.2	39.8	-0.40	Slight Beneficial	36.3	35.7	-0.65	Slight Beneficial
2838_Barry 3E		312766	170626	22.4	37.3	37.0	36.6	-0.39	Slight Beneficial	33.3	32.7	-0.61	Slight Beneficial
2849_Barry 3E		312762	170623	27.4	35.0	34.8	34.4	-0.39	Slight Beneficial	31.2	30.7	-0.58	Slight Beneficial
2850_Barry 3E		312757	170621	32.4	33.3	33.1	32.8	-0.39	Slight Beneficial	29.7	29.1	-0.56	Slight Beneficial
2861_Barry 3E		312753	170618	37.4	32.0	31.9	31.5	-0.38	Slight Beneficial	28.5	28.0	-0.54	Slight Beneficial
2872_Barry 3E		312749	170616	42.4	31.0	30.9	30.5	-0.38	Slight Beneficial	27.6	27.0	-0.53	Slight Beneficial
2883_Barry 3E		312744	170613	47.4	30.1	30.1	29.7	-0.38	Slight Beneficial	26.8	26.3	-0.52	Negligible
2894_Barry 3E		312740	170611	52.4	29.4	29.4	29.0	-0.38	Slight Beneficial	26.2	25.7	-0.51	Negligible
2905_Barry 3E		312736	170608	57.4	28.8	28.8	28.5	-0.38	Slight Beneficial	25.6	25.1	-0.50	Negligible
2916_Barry 3E		312731	170606	62.4	28.3	28.4	28.0	-0.38	Slight Beneficial	25.2	24.7	-0.49	Negligible
2927_Barry 3E		312727	170603	67.4	27.9	27.9	27.6	-0.38	Slight Beneficial	24.8	24.3	-0.49	Negligible
2938_Barry 3E		312723	170601	72.4	27.5	27.6	27.2	-0.38	Slight Beneficial	24.5	24.0	-0.48	Negligible
2949_Barry 3E		312718	170598	77.4	27.2	27.3	26.9	-0.38	Negligible	24.2	23.7	-0.48	Negligible
2950_Barry 3E		312714	170596	82.4	26.9	27.0	26.6	-0.39	Negligible	23.9	23.4	-0.48	Negligible
2961_Barry 3E		312710	170593	87.4	26.7	26.7	26.4	-0.39	Negligible	23.7	23.2	-0.48	Negligible
2972_Barry 3E		312705	170591	92.4	26.4	26.5	26.1	-0.39	Negligible	23.5	23.0	-0.47	Negligible
2983_Barry 3E		312701	170588	97.4	26.2	26.3	25.9	-0.39	Negligible	23.3	22.8	-0.47	Negligible
2994_Barry 3E		312696	170586	102.4	26.1	26.1	25.8	-0.39	Negligible	23.1	22.7	-0.47	Negligible
3005_Barry 3E	312692	170583	107.4	25.9	26.0	25.6	-0.39	Negligible	23.0	22.5	-0.47	Negligible	

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Receptor				Nitrogen deposition at ecological receptors (kgN/ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
3016_Barry 3E		312683	170579	117.4	25.6	25.7	25.3	-0.40	Negligible	22.7	22.2	-0.47	Negligible
3027_Barry 3E		312675	170574	127.4	25.3	25.5	25.1	-0.40	Negligible	22.5	22.0	-0.47	Negligible
3038_Barry 3E		312666	170569	137.4	25.1	25.3	24.9	-0.41	Negligible	22.3	21.8	-0.48	Negligible
3049_Barry 3E		312657	170564	147.4	25.0	25.1	24.7	-0.41	Negligible	22.2	21.7	-0.48	Negligible
3050_Barry 3E		312649	170559	157.4	24.8	25.0	24.6	-0.42	Negligible	22.0	21.6	-0.48	Negligible
3061_Barry 3E		312640	170554	167.4	24.7	24.9	24.4	-0.42	Negligible	21.9	21.5	-0.49	Negligible
3072_Barry 3E		312631	170549	177.4	24.6	24.8	24.3	-0.43	Negligible	21.9	21.4	-0.49	Negligible
3083_Barry 3E		312623	170544	187.4	24.5	24.7	24.2	-0.44	Negligible	21.8	21.3	-0.50	Negligible
3094_Barry 3E		312614	170539	197.4	24.4	24.6	24.2	-0.44	Negligible	21.7	21.2	-0.50	Negligible
3105_Barry 3E		312605	170534	207.4	24.4	24.6	24.1	-0.45	Negligible	21.7	21.2	-0.51	Negligible
3116_Barry 4A	Barry Woodlands SSSI (Pencoetre Wood, East of A4231)	312734	170789	20.5	42.3	42.2	41.5	-0.67	Slight Beneficial	38.6	37.4	-1.15	Slight Beneficial
3127_Barry 4A		312738	170792	25.5	39.3	39.2	38.5	-0.65	Slight Beneficial	35.7	34.6	-1.04	Slight Beneficial
3138_Barry 4A		312743	170794	30.5	37.0	37.0	36.3	-0.64	Slight Beneficial	33.6	32.6	-0.96	Slight Beneficial
3149_Barry 4A		312747	170796	35.5	35.3	35.3	34.6	-0.62	Slight Beneficial	31.9	31.0	-0.90	Slight Beneficial
3150_Barry 4A		312751	170799	40.5	33.9	33.9	33.3	-0.61	Slight Beneficial	30.6	29.7	-0.86	Slight Beneficial
3161_Barry 4A		312756	170801	45.5	32.8	32.8	32.2	-0.60	Slight Beneficial	29.5	28.7	-0.82	Slight Beneficial
3172_Barry 4A		312760	170804	50.5	31.8	31.8	31.2	-0.59	Slight Beneficial	28.6	27.8	-0.78	Slight Beneficial
3183_Barry 4A		312764	170806	55.5	31.0	31.0	30.5	-0.59	Slight Beneficial	27.8	27.1	-0.76	Slight Beneficial
3194_Barry 4A		312769	170809	60.5	30.3	30.4	29.8	-0.58	Slight Beneficial	27.2	26.4	-0.73	Negligible
3205_Barry 4A		312773	170811	65.5	29.7	29.8	29.2	-0.57	Slight Beneficial	26.6	25.9	-0.71	Negligible
3216_Barry 4A		312777	170814	70.5	29.1	29.2	28.7	-0.56	Slight Beneficial	26.1	25.4	-0.69	Negligible
3227_Barry 4A		312782	170816	75.5	28.7	28.8	28.2	-0.56	Slight Beneficial	25.6	25.0	-0.67	Negligible
3238_Barry 4A		312786	170819	80.5	28.2	28.3	27.8	-0.55	Slight Beneficial	25.2	24.6	-0.65	Negligible
3249_Barry 4A		312790	170821	85.5	27.9	28.0	27.4	-0.55	Slight Beneficial	24.9	24.2	-0.64	Negligible
3250_Barry 4A		312795	170824	90.5	27.5	27.6	27.1	-0.54	Slight Beneficial	24.5	23.9	-0.62	Negligible
3261_Barry 4A		312799	170826	95.5	27.2	27.3	26.8	-0.53	Negligible	24.2	23.6	-0.61	Negligible
3272_Barry 4A		312803	170829	100.5	26.9	27.0	26.5	-0.53	Negligible	24.0	23.4	-0.60	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
3283_Barry 4A		312808	170831	105.5	26.7	26.8	26.2	-0.52	Negligible	23.7	23.1	-0.59	Negligible
3294_Barry 4A		312812	170834	110.5	26.4	26.5	26.0	-0.52	Negligible	23.5	22.9	-0.58	Negligible
3305_Barry 4A		312816	170836	115.5	26.2	26.3	25.8	-0.51	Negligible	23.3	22.7	-0.56	Negligible
3316_Barry 4A		312821	170839	120.5	26.0	26.1	25.6	-0.50	Negligible	23.1	22.5	-0.55	Negligible
3327_Barry 4A		312829	170844	130.5	25.6	25.7	25.2	-0.49	Negligible	22.7	22.2	-0.54	Negligible
3338_Barry 4A		312838	170849	140.5	25.3	25.4	24.9	-0.48	Negligible	22.4	21.9	-0.52	Negligible
3349_Barry 4A		312847	170854	150.5	25.0	25.1	24.6	-0.47	Negligible	22.1	21.6	-0.50	Negligible
3350_Barry 4A		312855	170859	160.5	24.7	24.9	24.4	-0.46	Negligible	21.9	21.4	-0.49	Negligible
3361_Barry 4A		312864	170864	170.5	24.5	24.6	24.2	-0.45	Negligible	21.6	21.2	-0.47	Negligible
3372_Barry 4A		312873	170869	180.5	24.3	24.4	24.0	-0.44	Negligible	21.4	21.0	-0.46	Negligible
3383_Barry 4A		312881	170874	190.5	24.1	24.2	23.8	-0.43	Negligible	21.3	20.8	-0.44	Negligible
3394_Barry 4A		312890	170879	200.5	24.0	24.1	23.7	-0.42	Negligible	21.1	20.7	-0.43	Negligible
3405_Barry 4A		312899	170884	210.5	23.8	23.9	23.5	-0.41	Negligible	21.0	20.5	-0.42	Negligible
3416_Barry 4A		312907	170889	220.5	23.7	23.8	23.4	-0.40	Negligible	20.8	20.4	-0.41	Negligible
3427_Barry 4B		Barry Woodlands SSSI (Pencoetre Wood, East of A4231)	312798	170655	8.3	58.8	58.3	57.8	-0.53	Slight Beneficial	54.2	52.7	-1.53
3438_Barry 4B	312802		170657	13.3	49.5	49.2	48.7	-0.47	Slight Beneficial	45.3	44.2	-1.17	Slight Beneficial
3449_Barry 4B	312807		170660	18.3	44.0	43.8	43.3	-0.44	Slight Beneficial	40.1	39.1	-0.98	Slight Beneficial
3450_Barry 4B	312811		170662	23.3	40.4	40.2	39.7	-0.42	Slight Beneficial	36.6	35.7	-0.86	Slight Beneficial
3461_Barry 4B	312816		170664	28.3	37.7	37.6	37.2	-0.40	Slight Beneficial	34.1	33.3	-0.77	Slight Beneficial
3472_Barry 4B	312820		170667	33.3	35.7	35.6	35.2	-0.39	Slight Beneficial	32.2	31.5	-0.71	Slight Beneficial
3483_Barry 4B	312825		170669	38.3	34.2	34.1	33.7	-0.38	Slight Beneficial	30.7	30.1	-0.66	Slight Beneficial
3494_Barry 4B	312829		170671	43.3	32.9	32.9	32.5	-0.38	Slight Beneficial	29.6	29.0	-0.62	Slight Beneficial
3505_Barry 4B	312833		170674	48.3	31.9	31.9	31.5	-0.37	Slight Beneficial	28.6	28.0	-0.59	Slight Beneficial
3516_Barry 4B	312838		170676	53.3	31.0	31.0	30.7	-0.37	Slight Beneficial	27.8	27.2	-0.57	Slight Beneficial
3527_Barry 4B	312842		170678	58.3	30.3	30.3	29.9	-0.36	Slight Beneficial	27.1	26.6	-0.54	Negligible
3538_Barry 4B	312847		170681	63.3	29.7	29.7	29.3	-0.36	Slight Beneficial	26.5	26.0	-0.52	Negligible
3549_Barry 4B	312851		170683	68.3	29.1	29.1	28.8	-0.35	Slight Beneficial	26.0	25.5	-0.51	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/ha/yr) Sensitivity Test										
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance	
3550_Barry 4B		312855	170685	73.3	28.6	28.7	28.3	-0.35	Slight Beneficial	25.5	25.0	-0.49	Negligible	
3561_Barry 4B		312860	170688	78.3	28.2	28.2	27.9	-0.35	Slight Beneficial	25.1	24.6	-0.48	Negligible	
3572_Barry 4B		312864	170690	83.3	27.8	27.9	27.5	-0.34	Slight Beneficial	24.8	24.3	-0.47	Negligible	
3583_Barry 4B		312869	170693	88.3	27.5	27.5	27.2	-0.34	Slight Beneficial	24.4	24.0	-0.46	Negligible	
3594_Barry 4B		312873	170695	93.3	27.2	27.2	26.9	-0.34	Negligible	24.1	23.7	-0.45	Negligible	
3605_Barry 4B		312878	170697	98.3	26.9	26.9	26.6	-0.33	Negligible	23.9	23.4	-0.44	Negligible	
3616_Barry 4B		312882	170700	103.3	26.6	26.7	26.4	-0.33	Negligible	23.6	23.2	-0.43	Negligible	
3627_Barry 4B		312886	170702	108.3	26.4	26.4	26.1	-0.33	Negligible	23.4	23.0	-0.42	Negligible	
3638_Barry 4B		312895	170707	118.3	26.0	26.0	25.7	-0.32	Negligible	23.0	22.6	-0.41	Negligible	
3649_Barry 4B		312904	170711	128.3	25.6	25.7	25.3	-0.32	Negligible	22.6	22.2	-0.39	Negligible	
3650_Barry 4B		312913	170716	138.3	25.3	25.4	25.0	-0.31	Negligible	22.3	22.0	-0.38	Negligible	
3661_Barry 4B		312922	170721	148.3	25.0	25.1	24.8	-0.31	Negligible	22.1	21.7	-0.37	Negligible	
3672_Barry 4B		312931	170725	158.3	24.7	24.8	24.5	-0.31	Negligible	21.8	21.5	-0.36	Negligible	
3683_Barry 4B		312939	170730	168.3	24.5	24.6	24.3	-0.30	Negligible	21.6	21.3	-0.35	Negligible	
3694_Barry 4B		312948	170735	178.3	24.3	24.4	24.1	-0.30	Negligible	21.4	21.1	-0.34	Negligible	
3705_Barry 4B		312957	170739	188.3	24.1	24.2	23.9	-0.30	Negligible	21.3	20.9	-0.34	Negligible	
3716_Barry 4B		312966	170744	198.3	24.0	24.1	23.8	-0.29	Negligible	21.1	20.8	-0.33	Negligible	
3727_Barry 4B		312975	170749	208.3	23.8	23.9	23.6	-0.29	Negligible	21.0	20.6	-0.32	Negligible	
3738_Barry 5A		Barry Woodlands SSSI (Lidmore Wood)	308726	169717	195.0	21.2	21.3	22.4	1.03	Negligible	18.6	19.4	0.85	Negligible
3749_Barry 5A			308729	169721	200.0	21.2	21.3	22.3	1.00	Negligible	18.6	19.4	0.82	Negligible
3750_Barry 5A	308732		169725	205.0	21.1	21.3	22.2	0.96	Negligible	18.5	19.3	0.79	Negligible	
3761_Barry 5A	308734		169729	210.0	21.1	21.3	22.2	0.93	Negligible	18.5	19.3	0.76	Negligible	
3772_Barry 5A	308737		169734	215.0	21.1	21.3	22.1	0.90	Negligible	18.5	19.2	0.73	Negligible	
3783_Barry 5A	308740		169738	220.0	21.1	21.2	22.1	0.87	Negligible	18.5	19.2	0.71	Negligible	
3794_Barry 5A	308743		169742	225.0	21.1	21.2	22.1	0.84	Negligible	18.5	19.2	0.69	Negligible	
3805_Barry 5A	308746		169746	230.0	21.1	21.2	22.0	0.81	Negligible	18.4	19.1	0.66	Negligible	
3816_Barry 5A	308749		169750	235.0	21.1	21.2	22.0	0.79	Negligible	18.4	19.1	0.64	Negligible	

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test										
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance	
3827_Barry 5A		308751	169754	240.0	21.0	21.2	21.9	0.76	Negligible	18.4	19.0	0.62	Negligible	
3838_Barry 5A		308754	169758	245.0	21.0	21.2	21.9	0.74	Negligible	18.4	19.0	0.61	Negligible	
3849_Barry 5A		308757	169762	250.0	21.0	21.2	21.9	0.72	Negligible	18.4	19.0	0.59	Negligible	
3850_Barry 5A		308760	169767	255.0	21.0	21.1	21.8	0.70	Negligible	18.4	19.0	0.57	Negligible	
3861_Barry 5A		308763	169771	260.0	21.0	21.1	21.8	0.68	Negligible	18.4	18.9	0.56	Negligible	
3872_Barry 5A		308766	169775	265.0	21.0	21.1	21.8	0.67	Negligible	18.4	18.9	0.54	Negligible	
3883_Barry 5A		308768	169779	270.0	21.0	21.1	21.8	0.65	Negligible	18.3	18.9	0.53	Negligible	
3894_Barry 5A		308771	169783	275.0	21.0	21.1	21.7	0.63	Negligible	18.3	18.9	0.51	Negligible	
3905_Barry 5A		308774	169787	280.0	21.0	21.1	21.7	0.62	Negligible	18.3	18.8	0.50	Negligible	
3916_Barry 5A		308777	169791	285.0	21.0	21.1	21.7	0.60	Negligible	18.3	18.8	0.49	Negligible	
3927_Barry 5A		308780	169795	290.0	21.0	21.1	21.7	0.59	Negligible	18.3	18.8	0.48	Negligible	
3938_Barry 5A		308783	169800	295.0	20.9	21.1	21.6	0.57	Negligible	18.3	18.8	0.47	Negligible	
3949_Barry 5A		308788	169808	305.0	20.9	21.0	21.6	0.55	Negligible	18.3	18.7	0.44	Negligible	
3950_Barry 5A		308794	169816	315.0	20.9	21.0	21.6	0.53	Negligible	18.3	18.7	0.42	Negligible	
3961_Barry 5A		308799	169824	325.0	20.9	21.0	21.5	0.50	Negligible	18.3	18.7	0.41	Negligible	
3972_Barry 5A		308805	169833	335.0	20.9	21.0	21.5	0.48	Negligible	18.2	18.6	0.39	Negligible	
3983_Barry 5A		308811	169841	345.0	20.9	21.0	21.4	0.46	Negligible	18.2	18.6	0.37	Negligible	
3994_Barry 5A		308816	169849	355.0	20.9	21.0	21.4	0.45	Negligible	18.2	18.6	0.36	Negligible	
4005_Barry 5A		308822	169857	365.0	20.9	21.0	21.4	0.43	Negligible	18.2	18.5	0.35	Negligible	
4016_Barry 5A		308828	169866	375.0	20.9	20.9	21.4	0.42	Negligible	18.2	18.5	0.33	Negligible	
4027_Barry 5A		308833	169874	385.0	20.8	20.9	21.3	0.40	Negligible	18.2	18.5	0.32	Negligible	
4038_Barry 5A		308839	169882	395.0	20.8	20.9	21.3	0.39	Negligible	18.2	18.5	0.31	Negligible	
4049_Barry 5B		Barry Woodlands SSSI (Lidmore Wood)	308665	169764	215.0	21.1	21.3	22.3	1.01	Negligible	18.5	19.3	0.84	Negligible
4050_Barry 5B			308668	169768	220.0	21.1	21.2	22.2	0.98	Negligible	18.5	19.3	0.81	Negligible
4061_Barry 5B	308671		169772	225.0	21.1	21.2	22.2	0.94	Negligible	18.5	19.2	0.78	Negligible	
4072_Barry 5B	308673		169776	230.0	21.1	21.2	22.1	0.91	Negligible	18.4	19.2	0.76	Negligible	
4083_Barry 5B	308676		169781	235.0	21.1	21.2	22.1	0.89	Negligible	18.4	19.2	0.73	Negligible	

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
4094_Barry 5B		308679	169785	240.0	21.0	21.2	22.0	0.86	Negligible	18.4	19.1	0.71	Negligible
4105_Barry 5B		308682	169789	245.0	21.0	21.2	22.0	0.83	Negligible	18.4	19.1	0.69	Negligible
4116_Barry 5B		308685	169793	250.0	21.0	21.2	22.0	0.81	Negligible	18.4	19.1	0.67	Negligible
4127_Barry 5B		308688	169797	255.0	21.0	21.1	21.9	0.78	Negligible	18.4	19.0	0.65	Negligible
4138_Barry 5B		308690	169801	260.0	21.0	21.1	21.9	0.76	Negligible	18.4	19.0	0.63	Negligible
4149_Barry 5B		308693	169805	265.0	21.0	21.1	21.9	0.74	Negligible	18.4	19.0	0.61	Negligible
4150_Barry 5B		308696	169809	270.0	21.0	21.1	21.8	0.72	Negligible	18.3	18.9	0.59	Negligible
4161_Barry 5B		308699	169814	275.0	21.0	21.1	21.8	0.70	Negligible	18.3	18.9	0.58	Negligible
4172_Barry 5B		308702	169818	280.0	21.0	21.1	21.8	0.69	Negligible	18.3	18.9	0.56	Negligible
4183_Barry 5B		308705	169822	285.0	21.0	21.1	21.7	0.67	Negligible	18.3	18.9	0.55	Negligible
4194_Barry 5B		308707	169826	290.0	20.9	21.1	21.7	0.65	Negligible	18.3	18.8	0.53	Negligible
4205_Barry 5B		308710	169830	295.0	20.9	21.1	21.7	0.64	Negligible	18.3	18.8	0.52	Negligible
4216_Barry 5B		308713	169834	300.0	20.9	21.0	21.7	0.62	Negligible	18.3	18.8	0.51	Negligible
4227_Barry 5B		308716	169838	305.0	20.9	21.0	21.6	0.61	Negligible	18.3	18.8	0.50	Negligible
4238_Barry 5B		308719	169842	310.0	20.9	21.0	21.6	0.60	Negligible	18.3	18.8	0.49	Negligible
4249_Barry 5B		308722	169847	315.0	20.9	21.0	21.6	0.58	Negligible	18.3	18.7	0.47	Negligible
4250_Barry 5B		308727	169855	325.0	20.9	21.0	21.6	0.56	Negligible	18.2	18.7	0.45	Negligible
4261_Barry 5B		308733	169863	335.0	20.9	21.0	21.5	0.54	Negligible	18.2	18.7	0.44	Negligible
4272_Barry 5B		308738	169871	345.0	20.9	21.0	21.5	0.51	Negligible	18.2	18.6	0.42	Negligible
4283_Barry 5B		308744	169880	355.0	20.9	21.0	21.5	0.50	Negligible	18.2	18.6	0.40	Negligible
4294_Barry 5B		308750	169888	365.0	20.9	21.0	21.4	0.48	Negligible	18.2	18.6	0.39	Negligible
4305_Barry 5B		308755	169896	375.0	20.8	20.9	21.4	0.46	Negligible	18.2	18.6	0.37	Negligible
4316_Barry 5B		308761	169904	385.0	20.8	20.9	21.4	0.44	Negligible	18.2	18.5	0.36	Negligible
4327_Barry 5B		308767	169913	395.0	20.8	20.9	21.4	0.43	Negligible	18.2	18.5	0.35	Negligible
4338_Barry 5B		308772	169921	405.0	20.8	20.9	21.3	0.41	Negligible	18.1	18.5	0.33	Negligible
4349_Barry 5B		308778	169929	415.0	20.8	20.9	21.3	0.40	Negligible	18.1	18.5	0.32	Negligible
4350_Barry 5C	Barry	308625	169839	269.0	21.0	21.1	21.9	0.82	Negligible	18.3	19.0	0.68	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
4361_Barry 5C	Woodlands SSSI (Lidmore Wood)	308628	169843	274.0	21.0	21.1	21.9	0.80	Negligible	18.3	19.0	0.66	Negligible
4372_Barry 5C		308631	169847	279.0	21.0	21.1	21.9	0.78	Negligible	18.3	19.0	0.64	Negligible
4383_Barry 5C		308633	169851	284.0	21.0	21.1	21.8	0.76	Negligible	18.3	18.9	0.63	Negligible
4394_Barry 5C		308636	169856	289.0	20.9	21.1	21.8	0.74	Negligible	18.3	18.9	0.61	Negligible
4405_Barry 5C		308639	169860	294.0	20.9	21.1	21.8	0.72	Negligible	18.3	18.9	0.59	Negligible
4416_Barry 5C		308642	169864	299.0	20.9	21.0	21.7	0.70	Negligible	18.3	18.9	0.58	Negligible
4427_Barry 5C		308645	169868	304.0	20.9	21.0	21.7	0.69	Negligible	18.3	18.8	0.56	Negligible
4438_Barry 5C		308648	169872	309.0	20.9	21.0	21.7	0.67	Negligible	18.3	18.8	0.55	Negligible
4449_Barry 5C		308650	169876	314.0	20.9	21.0	21.7	0.65	Negligible	18.3	18.8	0.54	Negligible
4450_Barry 5C		308653	169880	319.0	20.9	21.0	21.6	0.64	Negligible	18.3	18.8	0.52	Negligible
4461_Barry 5C		308656	169884	324.0	20.9	21.0	21.6	0.62	Negligible	18.2	18.8	0.51	Negligible
4472_Barry 5C		308659	169889	329.0	20.9	21.0	21.6	0.61	Negligible	18.2	18.7	0.50	Negligible
4483_Barry 5C		308662	169893	334.0	20.9	21.0	21.6	0.60	Negligible	18.2	18.7	0.49	Negligible
4494_Barry 5C		308665	169897	339.0	20.9	21.0	21.6	0.59	Negligible	18.2	18.7	0.48	Negligible
4505_Barry 5C		308667	169901	344.0	20.9	21.0	21.6	0.57	Negligible	18.2	18.7	0.47	Negligible
4516_Barry 5C		308670	169905	349.0	20.9	21.0	21.5	0.56	Negligible	18.2	18.7	0.46	Negligible
4527_Barry 5C		308673	169909	354.0	20.9	21.0	21.5	0.55	Negligible	18.2	18.7	0.45	Negligible
4538_Barry 5C		308676	169913	359.0	20.9	21.0	21.5	0.54	Negligible	18.2	18.6	0.44	Negligible
4549_Barry 5C		308679	169917	364.0	20.9	21.0	21.5	0.53	Negligible	18.2	18.6	0.43	Negligible
4550_Barry 5C		308682	169922	369.0	20.8	20.9	21.5	0.52	Negligible	18.2	18.6	0.43	Negligible
4561_Barry 5C		308687	169930	379.0	20.8	20.9	21.4	0.50	Negligible	18.2	18.6	0.41	Negligible
4572_Barry 5C		308693	169938	389.0	20.8	20.9	21.4	0.49	Negligible	18.2	18.6	0.40	Negligible
4583_Barry 5C		308698	169946	399.0	20.8	20.9	21.4	0.47	Negligible	18.2	18.5	0.38	Negligible
4594_Barry 5C		308704	169955	409.0	20.8	20.9	21.4	0.45	Negligible	18.1	18.5	0.37	Negligible
4605_Barry 5C		308710	169963	419.0	20.8	20.9	21.3	0.44	Negligible	18.1	18.5	0.36	Negligible
4616_Barry 5C		308715	169971	429.0	20.8	20.9	21.3	0.43	Negligible	18.1	18.5	0.35	Negligible
4627_Barry 5C		308721	169979	439.0	20.8	20.9	21.3	0.41	Negligible	18.1	18.5	0.33	Negligible

Chapter 5: Air Quality

Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
4638_Barry 5C		308727	169988	449.0	20.8	20.9	21.3	0.40	Negligible	18.1	18.4	0.32	Negligible
4649_Barry 5C		308732	169996	459.0	20.8	20.9	21.3	0.39	Negligible	18.1	18.4	0.31	Negligible
4650_Barry 5C		308738	170004	469.0	20.8	20.9	21.2	0.38	Negligible	18.1	18.4	0.30	Negligible
4661_Cwm TalwgA	Cwm Talwg LNR (South of A4050)	310276	168888	62.0	26.2	26.5	25.4	-1.15	Negligible	24.1	22.7	-1.39	Negligible
4672_Cwm TalwgA		310280	168884	67.0	25.9	26.2	25.1	-1.07	Negligible	23.7	22.4	-1.30	Negligible
4683_Cwm TalwgA		310283	168881	72.0	25.6	25.9	24.9	-0.99	Negligible	23.4	22.2	-1.21	Negligible
4694_Cwm TalwgA		310286	168877	77.0	25.3	25.6	24.7	-0.93	Negligible	23.1	22.0	-1.14	Negligible
4705_Cwm TalwgA		310290	168874	82.0	25.1	25.4	24.5	-0.87	Negligible	22.9	21.8	-1.07	Negligible
4716_Cwm TalwgA		310293	168870	87.0	24.9	25.2	24.4	-0.82	Negligible	22.7	21.6	-1.01	Negligible
4727_Cwm TalwgA		310297	168867	92.0	24.8	25.0	24.2	-0.78	Negligible	22.5	21.5	-0.96	Negligible
4738_Cwm TalwgA		310300	168863	97.0	24.6	24.8	24.1	-0.74	Negligible	22.3	21.4	-0.91	Negligible
4749_Cwm TalwgA		310304	168859	102.0	24.4	24.7	24.0	-0.70	Negligible	22.1	21.2	-0.86	Negligible
4750_Cwm TalwgA		310307	168856	107.0	24.3	24.6	23.9	-0.66	Negligible	22.0	21.1	-0.82	Negligible
4761_Cwm TalwgA		310311	168852	112.0	24.2	24.4	23.8	-0.63	Negligible	21.8	21.0	-0.78	Negligible
4772_Cwm TalwgA		310314	168849	117.0	24.1	24.3	23.7	-0.60	Negligible	21.7	20.9	-0.75	Negligible
4783_Cwm TalwgA		310318	168845	122.0	24.0	24.2	23.6	-0.57	Negligible	21.6	20.9	-0.72	Negligible
4794_Cwm TalwgA		310321	168841	127.0	23.9	24.1	23.5	-0.55	Negligible	21.5	20.8	-0.68	Negligible
4805_Cwm TalwgA		310325	168838	132.0	23.8	24.0	23.5	-0.52	Negligible	21.4	20.7	-0.66	Negligible

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Receptor				Nitrogen deposition at ecological receptors (kgN/Ha/yr) Sensitivity Test									
ID	Location	X(m)	Y(m)	Distance To Road	Base 2013	DM 2017	DS 2017	Change	Significance	2032 DM	2032 DS	Change	Significance
4816_Cwm TalwgA		310328	168834	137.0	23.7	23.9	23.4	-0.50	Negligible	21.3	20.6	-0.63	Negligible
4827_Cwm TalwgA		310332	168831	142.0	23.6	23.8	23.3	-0.48	Negligible	21.2	20.6	-0.61	Negligible
4838_Cwm TalwgA		310335	168827	147.0	23.6	23.7	23.3	-0.46	Negligible	21.1	20.5	-0.58	Negligible
4849_Cwm TalwgA	Cwm Talwg LNR (South of A4050)	310315	168926	247.9	25.5	25.7	24.8	-0.96	Negligible	23.2	22.1	-1.17	Negligible
4850_Cwm TalwgB		310319	168922	75.6	25.2	25.5	24.6	-0.90	Negligible	23.0	21.9	-1.10	Negligible
4861_Cwm TalwgB		310322	168919	80.6	25.0	25.3	24.4	-0.85	Negligible	22.7	21.7	-1.04	Negligible
4872_Cwm TalwgB		310325	168915	85.6	24.8	25.1	24.3	-0.80	Negligible	22.5	21.6	-0.98	Negligible
4883_Cwm TalwgB		310329	168912	90.6	24.7	24.9	24.2	-0.76	Negligible	22.3	21.4	-0.93	Negligible
4894_Cwm TalwgB		310332	168908	95.6	24.5	24.8	24.0	-0.72	Negligible	22.2	21.3	-0.89	Negligible
4905_Cwm TalwgB		310336	168905	100.6	24.4	24.6	23.9	-0.68	Negligible	22.0	21.2	-0.84	Negligible
4916_Cwm TalwgB		310339	168901	105.6	24.3	24.5	23.8	-0.65	Negligible	21.9	21.1	-0.81	Negligible
4927_Cwm TalwgB		310343	168897	110.6	24.1	24.4	23.7	-0.62	Negligible	21.7	21.0	-0.77	Negligible
4938_Cwm TalwgB		310346	168894	115.6	24.0	24.3	23.7	-0.59	Negligible	21.6	20.9	-0.74	Negligible
4949_Cwm TalwgB		310350	168890	120.6	23.9	24.1	23.6	-0.56	Negligible	21.5	20.8	-0.71	Negligible

Table A6.4.7 Year specific PM10 model results ($\mu\text{g}/\text{m}^3$)

Receptor				Year specific PM10 model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
01_A48	A48 Culverhouse Cross to Sycamore Cross	310435	174548	15.21	14.61	15.13	0.52	Negligible	14.24	14.90	0.66	Negligible
02_A48		309853	174708	13.51	12.99	13.03	0.04	Negligible	12.53	12.57	0.05	Negligible
03_A48		309236	174344	14.86	14.30	14.72	0.42	Negligible	13.91	14.43	0.52	Negligible
04_STN		309069	174298	14.98	14.39	14.84	0.45	Negligible	14.02	14.58	0.56	Negligible
05_A48		308967	174264	14.82	14.24	14.68	0.45	Negligible	13.84	14.39	0.55	Negligible
06_STN		308897	174278	13.75	13.22	13.38	0.16	Negligible	12.77	12.97	0.20	Negligible
07_STN		308651	174220	15.12	14.51	15.07	0.56	Negligible	14.13	14.82	0.68	Negligible
08_A48		308360	174184	16.32	15.66	16.62	0.95	Negligible	15.34	16.57	1.23	Negligible
09_A48		307708	174206	14.25	13.72	14.02	0.29	Negligible	13.31	13.68	0.37	Negligible
10_A48		307299	174141	14.14	13.58	13.62	0.04	Negligible	13.17	13.22	0.04	Negligible
11_A48		307226	174101	15.27	14.59	14.61	0.02	Negligible	14.25	14.28	0.02	Negligible
12_WAY	Five Mile Lane and Associated Minor Lanes	307609	173757	13.56	13.08	13.10	0.02	Negligible	12.64	12.64	0.00	Negligible
13_WAY		307728	173756	13.64	13.17	13.14	-0.03	Negligible	12.76	12.69	-0.07	Negligible
14_DYF		311674	173680	14.24	13.67	13.65	-0.02	Negligible	13.22	13.21	-0.01	Negligible
15_WAY		307753	172782	13.42	12.95	12.96	0.01	Negligible	12.51	12.49	-0.02	Negligible
16_DYF		308474	171721	13.21	12.72	12.71	-0.02	Negligible	12.22	12.20	-0.02	Negligible
17_WAY		308134	170570	13.39	12.91	13.29	0.38	Negligible	12.42	12.82	0.41	Negligible
18_WAY		307927	170493	13.53	13.05	13.01	-0.04	Negligible	12.57	12.51	-0.06	Negligible
19_WAY	308062	169779	13.72	13.28	12.68	-0.60	Negligible	12.89	12.16	-0.72	Negligible	
20_RHO	Rhose Village	306897	166602	14.14	13.56	13.56	0.00	Negligible	12.98	12.98	0.00	Negligible
21_PPR	B4266 Pontypridd Road	309752	168506	14.94	14.38	14.37	-0.01	Negligible	14.08	14.03	-0.05	Negligible
22_PPR		309924	168336	14.78	14.19	14.22	0.03	Negligible	13.81	13.80	-0.01	Negligible
23_PPR		310318	167995	14.50	13.93	13.95	0.02	Negligible	13.52	13.52	0.00	Negligible
24_PRW	Port Road West, Waycock	308437	168071	13.80	13.34	13.35	0.00	Negligible	13.03	13.04	0.00	Negligible
25_PRW		309091	168372	14.65	14.31	14.31	0.01	Negligible	14.38	14.38	0.01	Negligible
26_PRW		309420	168482	14.75	14.42	14.44	0.02	Negligible	14.55	14.56	0.01	Negligible

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Receptor				Year specific PM10 model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
27_WCC	Cross to Cardiff Airport	309646	168532	14.73	14.35	14.36	0.01	Negligible	14.36	14.35	-0.01	Negligible
28_PRW		309686	168594	16.27	15.83	15.61	-0.23	Negligible	16.19	15.83	-0.36	Negligible
29_PRW		309793	168579	15.01	14.53	14.17	-0.36	Negligible	14.52	14.04	-0.48	Negligible
30_PRW	Port Road West, Waycock Cross to Colcot Road	309979	168658	15.47	14.99	14.46	-0.53	Negligible	15.11	14.42	-0.69	Negligible
31_PRW		310164	168805	15.38	14.88	14.39	-0.49	Negligible	14.95	14.31	-0.65	Negligible
32_PRW		310256	168959	15.73	15.24	14.65	-0.59	Negligible	15.40	14.64	-0.76	Negligible
33_PRW		310284	169056	15.92	15.41	14.84	-0.57	Negligible	15.58	14.85	-0.73	Negligible
34_PRW		310507	169275	14.71	14.19	13.95	-0.24	Negligible	13.99	13.66	-0.34	Negligible
35_PRW		310530	169367	16.08	15.51	15.03	-0.48	Negligible	15.64	14.96	-0.68	Negligible
36_PRW		310625	169490	14.59	14.05	13.85	-0.20	Negligible	13.82	13.54	-0.27	Negligible
37_PRW		310680	169144	13.90	13.35	13.32	-0.03	Negligible	12.90	12.87	-0.04	Negligible
38_PRE	Port Road East, Colcot Road to A4231	310802	169580	15.22	14.66	14.44	-0.22	Negligible	14.42	14.19	-0.23	Negligible
39_PRE		310923	169817	14.66	14.12	13.86	-0.27	Negligible	13.93	13.63	-0.30	Negligible
40_PRE		311172	169994	14.58	14.05	13.80	-0.25	Negligible	13.84	13.56	-0.28	Negligible
41_PRE		311391	170150	15.05	14.52	14.18	-0.35	Negligible	14.42	14.04	-0.38	Negligible
42_PRE		311398	170033	14.01	13.48	13.37	-0.11	Negligible	13.11	12.98	-0.13	Negligible
43_PRE		311662	170392	15.13	14.61	14.26	-0.35	Negligible	14.52	14.13	-0.39	Negligible
44_PRE		311692	170334	14.53	13.99	13.79	-0.20	Negligible	13.72	13.50	-0.23	Negligible
45_PRE		311798	170426	15.51	14.98	14.56	-0.42	Negligible	14.97	14.51	-0.46	Negligible
46_PRE		312038	170322	14.02	13.48	13.42	-0.06	Negligible	13.07	13.00	-0.07	Negligible
47_PRE		312352	170547	16.20	15.66	15.15	-0.51	Negligible	15.75	15.18	-0.58	Negligible
48_PRN	Port Road East, A4231 to Culverhouse Cross	312581	171026	16.02	15.38	14.88	-0.50	Negligible	15.32	14.79	-0.52	Negligible
49_PRN		312246	171511	14.05	13.50	13.38	-0.12	Negligible	13.12	12.99	-0.13	Negligible
50_PRN		312157	172001	15.69	15.06	14.57	-0.49	Negligible	14.95	14.45	-0.50	Negligible
51_PRN		312304	172085	14.24	13.68	13.56	-0.12	Negligible	13.30	13.17	-0.13	Negligible
52_PRN		312292	172466	16.14	15.48	14.93	-0.55	Negligible	15.43	14.86	-0.56	Negligible
53_PRN		312329	172802	16.14	15.48	14.96	-0.52	Negligible	15.40	14.87	-0.54	Negligible
54_PRN		312312	172931	16.02	15.37	14.88	-0.49	Negligible	15.27	14.77	-0.50	Negligible
55_PRN		312217	173298	15.63	15.00	14.63	-0.37	Negligible	14.83	14.44	-0.38	Negligible

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Receptor				Year specific PM10 model results ($\mu\text{g}/\text{m}^3$)								
ID	Location	X	Y	Base 2013	2017 DM	2017 DS	Change	Significance	2032 DM	2032 DS	Change	Significance
56_PRN		312293	173337	16.08	15.44	14.99	-0.45	Negligible	15.34	14.87	-0.46	Negligible
57_PRN		312198	173378	17.08	16.37	15.71	-0.66	Negligible	16.46	15.77	-0.68	Negligible
58_PRN		312086	173731	15.04	14.45	14.27	-0.18	Negligible	14.16	13.97	-0.19	Negligible
59_PRN		311886	174517	16.91	16.24	15.94	-0.30	Negligible	15.98	15.67	-0.31	Negligible
60_RAA	Culverhouse Cross	311717	175079	16.71	16.14	16.14	0.00	Negligible	15.85	15.85	0.01	Negligible