

# Lower Thames Crossing

## 6.3 Environmental Statement Appendices

### Appendix 5.3 – Air Quality Construction Phase Results

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# Lower Thames Crossing

## 6.3 Environmental Statement Appendices

### Appendix 5.3 – Air Quality Construction Phase Results

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# 1 Human Receptor NO<sub>2</sub> and PM<sub>10</sub> Results

**Table 1.1 Modelled Annual Mean NO<sub>2</sub> and PM<sub>10</sub> (µg/m<sup>3</sup>) at Human Receptors in Base 2016, Do-Minimum (DM) 2025 and Construction (Con) 2025 Scenarios**

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC_Con_001	562594	172394	32.3	25.9	26.0	0.1	21.0	20.0	20.0	0.0
LTC_Con_002	565852	171835	29.1	23.1	22.7	-0.4	19.3	18.2	18.1	-0.1
LTC_Con_003	564529	173148	38.1	30.5	30.7	0.2	20.5	19.5	19.5	0.0
LTC_Con_004	564597	173166	37.8	30.1	30.4	0.3	20.5	19.4	19.4	0.0
LTC_Con_005	566381	173252	32.0	25.9	25.8	-0.1	18.9	18.0	18.0	0.0
LTC_Con_006	566423	173206	32.7	26.5	26.4	-0.1	19.0	18.1	18.1	0.0
LTC_Con_007	566988	173065	30.7	24.1	24.4	0.3	18.7	17.6	17.7	0.1
LTC_Con_008	567118	173091	26.9	21.0	21.2	0.2	17.4	16.4	16.5	0.1
LTC_Con_009	567345	173204	26.1	20.3	20.5	0.2	17.3	16.2	16.3	0.1
LTC_Con_010	568257	173172	24.1	18.8	19.4	0.6	16.7	15.8	15.9	0.1
LTC_Con_011	568402	173153	23.8	18.5	18.9	0.4	16.7	15.7	15.8	0.1
LTC_Con_012	569391	171821	23.8	18.8	19.0	0.2	17.4	16.4	16.4	0.0
LTC_Con_013	566862	171792	26.4	19.7	20.0	0.3	19.0	17.7	17.7	0.0
LTC_Con_014	566019	178644	26.4	20.3	20.6	0.3	18.4	17.3	17.4	0.1
LTC_Con_015	559095	182892	30.2	24.0	25.3	1.3	18.8	17.7	18.0	0.3
LTC_Con_016	559598	184022	24.2	18.8	18.5	-0.3	18.5	17.4	17.2	-0.2
LTC_Con_017	559470	188460	28.4	22.4	22.3	-0.1	20.3	19.2	19.1	-0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC_Con_018	567075	171358	21.3	16.7	17.0	0.3	17.9	16.9	17.0	0.1
LTC_Con_019	559448	188795	31.7	25.1	25.1	0.0	20.4	19.3	19.2	-0.1
LTC_Con_020	563904	189357	27.2	21.2	21.2	0.0	18.9	17.8	17.8	0.0
LTC_Con_021	563043	182051	23.3	18.1	18.1	0.0	18.6	17.5	17.5	0.0
LTC_Con_022	563540	181494	26.2	20.8	20.7	-0.1	18.6	17.7	17.6	-0.1
LTC_Con_023	563402	181407	27.7	22.3	22.0	-0.3	18.9	18.0	17.8	-0.2
LTC_Con_024	567319	178961	26.0	20.0	20.2	0.2	18.2	17.1	17.2	0.1
LTC_Con_025	565039	176156	27.7	22.4	22.6	0.2	18.3	17.1	17.2	0.1
LTC_Con_026	564344	175862	37.0	29.6	30.3	0.7	18.2	16.9	17.1	0.2
LTC_Con_027	563909	176124	37.4	30.6	31.1	0.5	18.9	18.5	18.7	0.2
LTC_Con_028	563737	176264	37.7	31.1	31.8	0.7	19.0	18.7	18.9	0.2
LTC_Con_029	563099	177550	28.8	22.3	22.4	0.1	19.7	18.7	18.7	0.0
LTC_Con_030	565998	169664	21.1	16.4	16.4	0.0	17.6	16.6	16.6	0.0
LTC_Con_031	566059	169036	20.6	16.0	16.0	0.0	17.6	16.6	16.6	0.0
LTC_Con_032	566396	168752	19.9	15.4	15.5	0.1	16.1	15.1	15.1	0.0
LTC_Con_033	569498	171741	25.3	20.1	20.0	-0.1	17.7	16.7	16.7	0.0
LTC_Con_034	569410	171724	24.2	19.1	19.0	-0.1	17.5	16.5	16.5	0.0
LTC_Con_035	568957	171928	23.6	18.5	18.4	-0.1	17.6	16.7	16.6	-0.1
LTC_Con_036	559672	179653	<b>44.3</b>	35.7	35.8	0.1	22.3	21.2	21.2	0.0
LTC_Con_037	560603	180417	27.8	22.0	22.0	0.0	19.3	18.3	18.3	0.0
LTC_Con_038	557037	191875	31.7	25.1	25.4	0.3	20.7	19.6	19.6	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC_Con_039	561411	180593	32.6	26.2	26.0	-0.2	20.4	19.4	19.3	-0.1
LTC_Con_040	566775	177620	27.7	21.6	21.7	0.1	18.5	17.5	17.5	0.0
LTC_Con_041	566711	177660	27.3	21.2	21.3	0.1	18.4	17.4	17.4	0.0
LTC_Con_042_FF	564863	174019	35.8	27.9	27.9	0.0	18.4	16.8	16.8	0.0
LTC_Con_043_FF	564883	174019	36.1	28.1	28.1	0.0	18.4	16.9	16.9	0.0
LTC_Con_044	564526	173148	38.3	30.7	30.9	0.2	20.6	19.5	19.5	0.0
LTC_Con_045	564503	173178	<b>41.8</b>	34.0	34.1	0.1	21.1	20.1	20.1	0.0
LTC_Con_046	561184	157094	18.6	14.4	14.4	0.0	16.9	15.8	15.9	0.1
LTC_Con_047	561200	157095	18.9	14.7	14.7	0.0	17.0	15.9	15.9	0.0
LTC_Con_048_FF	575410	155575	27.4	21.4	21.4	0.0	19.0	17.9	17.9	0.0
LTC_Con_049	556279	190355	23.2	18.0	18.1	0.1	18.6	17.5	17.5	0.0
LTC_Con_050	569439	170319	23.6	18.6	18.6	0.0	16.7	15.7	15.7	0.0
LTC_Con_051	569325	170317	25.9	21.0	21.3	0.3	17.2	16.3	16.4	0.1
LTC_Con_052	556240	190398	23.9	18.7	18.8	0.1	18.7	17.6	17.7	0.1
LTC_Con_053	564572	182200	25.3	19.9	19.9	0.0	18.2	17.2	17.2	0.0
LTC_Con_054	564545	182218	25.5	20.1	20.1	0.0	18.2	17.3	17.3	0.0
LTC_Con_055	557977	184918	24.2	18.8	18.9	0.1	17.9	16.8	16.8	0.0
LTC_Con_056	558004	184145	26.4	20.6	20.9	0.3	19.7	18.6	18.7	0.1
LTC_Con_057	558285	183502	27.3	21.4	21.8	0.4	21.0	19.9	20.0	0.1
LTC_Con_058	559068	182869	28.0	22.0	22.4	0.4	18.4	17.3	17.4	0.1
LTC_Con_059	562573	181300	31.1	25.1	24.9	-0.2	21.2	20.3	20.3	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC004	564556	178510	32.9	26.8	27.0	0.2	18.3	17.4	17.4	0.0
LTC005_D	563565	180885	37.2	30.7	30.8	0.1	20.6	19.6	19.6	0.0
LTC010	566046	169567	21.2	16.5	16.5	0.0	17.7	16.7	16.7	0.0
LTC018	558451	185168	35.8	28.4	28.1	-0.3	20.9	19.8	19.7	-0.1
LTC019	563481	188644	30.6	25.1	25.1	0.0	19.8	18.6	18.6	0.0
LTC023	563212	189307	38.5	30.0	30.1	0.1	19.9	18.6	18.6	0.0
LTC025	563405	189411	39.7	30.7	30.7	0.0	20.2	18.8	18.8	0.0
LTC028_D	563564	180769	36.5	30.1	30.2	0.1	20.5	19.6	19.6	0.0
LTC033	570820	186331	32.3	26.3	26.3	0.0	19.1	18.1	18.1	0.0
LTC035	559987	179688	<b>44.9</b>	36.0	36.1	0.1	22.4	21.3	21.3	0.0
LTC037	564962	183863	31.6	24.9	24.9	0.0	20.2	19.2	19.2	0.0
LTC039	559264	187097	29.0	23.0	22.6	-0.4	19.4	18.3	18.2	-0.1
LTC041	566254	181542	35.6	29.0	29.0	0.0	20.6	19.8	19.8	0.0
LTC043	573333	158281	31.9	26.1	26.1	0.0	20.4	19.4	19.4	0.0
LTC046	571962	158659	<b>44.8</b>	37.9	37.3	-0.6	21.9	20.6	20.6	0.0
LTC050	572140	158548	37.5	30.9	30.7	-0.2	21.1	19.9	19.9	0.0
LTC051	560947	179826	<b>42.9</b>	33.8	33.8	0.0	22.2	21.0	21.0	0.0
LTC054	570554	169537	39.4	32.5	32.6	0.1	20.7	19.6	19.6	0.0
LTC055	555762	173186	<b>43.7</b>	36.2	36.2	0.0	23.4	22.4	22.4	0.0
LTC061	560903	179864	<b>43.6</b>	33.7	33.8	0.1	22.3	21.0	21.0	0.0
LTC069	564193	180652	34.4	27.5	27.9	0.4	21.0	20.1	20.2	0.1



Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC072	557372	188786	36.7	29.2	29.2	0.0	20.6	19.3	19.4	0.1
LTC076	568380	169747	29.3	23.6	23.6	0.0	19.0	17.9	17.9	0.0
LTC078	561040	180521	32.6	26.3	26.2	-0.1	20.3	19.3	19.3	0.0
LTC080	562206	172332	<b>40.7</b>	32.7	32.7	0.0	21.8	20.6	20.7	0.1
LTC081	560297	188782	39.6	31.2	31.2	0.0	20.4	19.1	19.1	0.0
LTC085	564089	186522	23.9	18.5	18.5	0.0	18.9	17.8	17.8	0.0
LTC087	565385	181401	34.6	29.5	29.4	-0.1	20.7	19.8	19.8	0.0
LTC088	561069	179918	<b>44.2</b>	34.5	34.6	0.1	20.4	19.1	19.1	0.0
LTC089	560899	179228	33.1	26.1	26.1	0.0	21.1	20.0	20.0	0.0
LTC098	555672	174875	<b>42.8</b>	35.3	35.4	0.1	23.3	22.1	22.1	0.0
LTC099	561115	179875	<b>40.6</b>	32.8	32.8	0.0	20.0	18.9	18.9	0.0
LTC103	560028	179870	<b>40.2</b>	33.2	33.2	0.0	21.5	20.6	20.6	0.0
LTC104	557438	188810	37.7	30.1	30.2	0.1	20.8	19.5	19.6	0.1
LTC109	562370	189131	38.6	30.4	31.0	0.6	20.3	19.0	19.0	0.0
LTC112_H	556102	175092	<b>41.5</b>	33.6	33.7	0.1	22.3	21.3	21.3	0.0
LTC113	563886	179688	30.2	24.6	24.7	0.1	19.2	18.3	18.3	0.0
LTC117	563405	178118	28.5	22.3	22.3	0.0	19.5	18.5	18.5	0.0
LTC121	563827	179654	28.5	22.8	22.9	0.1	19.0	18.1	18.1	0.0
LTC122	570708	169402	<b>44.6</b>	37.1	37.1	0.0	21.0	19.7	19.7	0.0
LTC126	555667	173214	38.3	31.1	31.2	0.1	22.6	21.6	21.6	0.0
LTC127_D	566299	170338	<b>44.7</b>	36.6	36.4	-0.2	22.2	20.9	20.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC133_D	566158	170293	32.7	26.3	26.2	-0.1	21.0	19.8	19.8	0.0
LTC138	559547	179539	<b>41.8</b>	34.3	34.3	0.0	21.8	20.8	20.9	0.1
LTC139_H	557437	179111	37.5	31.0	30.8	-0.2	20.6	19.5	19.5	0.0
LTC146_D	563539	180445	31.8	26.0	26.1	0.1	20.1	19.2	19.2	0.0
LTC147	570857	186482	28.2	22.5	22.5	0.0	18.7	17.7	17.7	0.0
LTC148	563056	177977	33.9	27.2	27.2	0.0	20.6	19.7	19.7	0.0
LTC149	572611	158545	37.5	30.7	30.5	-0.2	21.2	20.0	20.0	0.0
LTC160	569641	159160	30.1	24.4	24.4	0.0	20.0	18.9	18.9	0.0
LTC161	569731	159209	38.6	32.1	32.1	0.0	21.0	19.7	19.8	0.1
LTC170	556961	192282	33.5	26.4	26.5	0.1	20.7	19.5	19.5	0.0
LTC171	569969	185597	27.1	21.5	21.5	0.0	19.2	18.2	18.2	0.0
LTC172	572601	158451	30.4	24.2	24.2	0.0	20.4	19.3	19.3	0.0
LTC177_H	561349	180920	33.7	26.9	26.9	0.0	20.3	19.3	19.3	0.0
LTC178_D	558307	185117	36.9	29.4	29.0	-0.4	21.1	19.9	19.8	-0.1
LTC181_D	564903	181059	38.4	31.0	31.3	0.3	20.3	19.7	19.7	0.0
LTC182_H	555711	175114	<b>43.8</b>	37.0	37.1	0.1	22.2	21.2	21.2	0.0
LTC183_D	563650	180412	32.6	26.7	26.9	0.2	20.2	19.4	19.4	0.0
LTC184	557113	191984	34.6	27.7	28.0	0.3	21.1	19.9	19.9	0.0
LTC185	566149	170420	35.4	28.9	28.6	-0.3	21.3	20.2	20.1	-0.1
LTC187	566989	159497	29.4	24.6	24.6	0.0	19.4	18.4	18.4	0.0
LTC188	573237	158000	36.4	29.3	29.3	0.0	21.0	19.9	19.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC193	558144	183521	30.1	23.6	23.6	0.0	21.3	20.1	20.1	0.0
LTC195_H	567481	169861	34.3	27.6	27.7	0.1	19.9	18.7	18.7	0.0
LTC198	568816	159489	25.4	20.8	20.8	0.0	19.4	18.5	18.5	0.0
LTC199	560880	180609	30.2	24.3	24.3	0.0	19.5	18.5	18.5	0.0
LTC200	561728	172693	33.3	26.5	26.5	0.0	21.2	20.2	20.2	0.0
LTC205	566700	159328	26.1	21.4	21.4	0.0	19.0	18.0	18.0	0.0
LTC210_H	565459	170651	32.8	26.0	25.9	-0.1	21.1	20.0	20.0	0.0
LTC219	571417	170728	28.9	23.5	23.5	0.0	19.5	18.5	18.5	0.0
LTC220_D	563573	180719	32.9	26.7	26.8	0.1	20.2	19.2	19.2	0.0
LTC222	557710	189948	28.0	21.6	21.6	0.0	20.5	19.4	19.4	0.0
LTC223	555916	172655	32.7	25.9	25.9	0.0	21.5	20.4	20.4	0.0
LTC225	564541	180832	33.7	26.9	27.1	0.2	20.7	19.9	19.9	0.0
LTC226	563551	178567	27.1	21.2	21.2	0.0	19.3	18.3	18.3	0.0
LTC229	555602	172639	32.2	25.4	25.4	0.0	21.4	20.3	20.3	0.0
LTC231	565832	181363	35.9	30.5	30.6	0.1	21.3	20.6	20.6	0.0
LTC239	564625	178310	29.3	23.3	22.7	-0.6	17.9	17.0	16.8	-0.2
LTC240	570400	159022	38.7	32.2	31.8	-0.4	20.5	19.3	19.3	0.0
LTC247	567142	171222	21.2	16.5	16.8	0.3	17.9	16.9	17.0	0.1
LTC248	566183	170714	33.8	28.0	26.5	-1.5	21.7	20.9	20.6	-0.3
LTC261	563345	181393	27.8	22.3	21.8	-0.5	18.9	18.0	17.8	-0.2
LTC262	564034	180560	32.8	26.1	26.4	0.3	20.7	19.7	19.8	0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC263	567776	172585	21.9	16.9	16.9	0.0	17.4	16.4	16.4	0.0
LTC282	555699	174971	37.8	30.8	30.8	0.0	22.7	21.5	21.5	0.0
LTC289_H	557310	178758	<b>58.4</b>	<b>45.9</b>	<b>45.7</b>	-0.2	23.2	21.6	21.6	0.0
LTC293	558900	187348	32.0	25.1	25.1	0.0	20.3	19.1	19.1	0.0
LTC294	557986	188543	34.0	27.0	27.0	0.0	19.8	18.5	18.5	0.0
LTC296	557011	192496	30.8	24.5	24.5	0.0	20.5	19.5	19.5	0.0
LTC306	564584	178443	31.4	25.5	24.4	-1.1	18.3	17.4	17.1	-0.3
LTC310	562391	181197	35.6	29.1	28.9	-0.2	21.7	20.8	20.8	0.0
LTC311	564948	183781	30.3	23.7	23.8	0.1	20.0	18.9	18.9	0.0
LTC312_D	563042	181386	27.2	21.6	21.5	-0.1	18.8	17.8	17.7	-0.1
LTC313	564616	181676	28.7	22.9	23.0	0.1	19.0	18.1	18.2	0.1
LTC314	563526	188306	26.3	20.9	21.0	0.1	19.0	17.9	17.9	0.0
LTC316	567001	169753	22.4	17.4	17.5	0.1	18.7	17.7	17.7	0.0
LTC317	567665	173199	25.9	20.0	20.3	0.3	17.2	16.2	16.3	0.1
LTC318	569129	171877	25.2	20.1	19.7	-0.4	17.7	16.8	16.7	-0.1
LTC319_D	566154	170274	29.9	23.8	23.7	-0.1	20.7	19.6	19.6	0.0
LTC320	567774	172770	26.7	21.6	21.2	-0.4	18.3	17.3	17.2	-0.1
LTC322	567220	170965	21.3	16.5	16.8	0.3	17.0	16.0	16.0	0.0
LTC323	566174	170771	35.0	29.3	27.2	-2.1	22.0	21.3	20.8	-0.5
LTC325	565382	181812	33.4	26.5	26.5	0.0	20.9	19.9	20.0	0.1
LTC326	565516	180055	25.2	19.4	19.4	0.0	17.9	16.8	16.8	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC336	571093	170878	31.7	25.9	25.6	-0.3	20.2	19.4	19.3	-0.1
LTC337	571304	170708	28.3	22.9	22.9	0.0	19.4	18.5	18.4	-0.1
LTC338	570668	171203	27.4	22.0	21.8	-0.2	18.2	17.3	17.2	-0.1
LTC348_H	575656	155601	31.3	23.5	23.5	0.0	19.5	18.1	18.1	0.0
LTC368	558555	186997	27.8	21.6	21.5	-0.1	21.0	19.9	19.8	-0.1
LTC372_D	563549	180904	35.5	29.2	29.2	0.0	20.4	19.5	19.5	0.0
LTC373_D	563471	180982	32.0	25.9	25.9	0.0	20.0	19.1	19.1	0.0
LTC374	563769	180340	30.6	24.4	24.7	0.3	20.1	19.1	19.1	0.0
LTC375_D	563583	180889	36.3	29.9	30.0	0.1	20.5	19.5	19.5	0.0
LTC376	563206	181406	28.4	22.9	22.4	-0.5	19.0	18.1	17.9	-0.2
LTC377	563747	180315	31.1	25.0	25.2	0.2	20.2	19.2	19.2	0.0
LTC378	564180	180656	33.1	26.4	26.7	0.3	20.7	19.8	19.9	0.1
LTC379	563296	181291	26.8	21.2	21.2	0.0	18.7	17.7	17.7	0.0
LTC390_D	558198	185085	29.7	23.4	23.0	-0.4	20.3	19.2	19.0	-0.2
LTC392	556887	192432	37.0	29.5	29.5	0.0	21.3	20.1	20.1	0.0
LTC397	560970	172763	36.2	29.3	29.2	-0.1	21.0	19.9	19.9	0.0
LTC398	563419	181233	27.1	21.5	21.4	-0.1	18.7	17.7	17.7	0.0
LTC410	566977	178793	25.1	19.2	19.3	0.1	18.2	17.1	17.2	0.1
LTC413	563756	178670	32.2	26.3	26.6	0.3	20.0	19.1	19.2	0.1
LTC442_F	563337	180578	28.8	22.8	22.9	0.1	19.7	18.7	18.7	0.0
LTC542	570702	169431	38.4	31.6	31.6	0.0	20.4	19.2	19.2	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC543	570706	169408	<b>42.8</b>	35.5	35.5	0.0	20.8	19.6	19.6	0.0
LTC544	570723	169430	35.6	29.1	29.1	0.0	20.1	18.9	18.9	0.0
LTC560_F	563526	178381	35.3	29.6	29.5	-0.1	20.4	19.7	19.7	0.0
LTC580	556511	188809	28.4	22.6	22.8	0.2	19.3	18.2	18.2	0.0
LTC589	564201	171209	<b>43.9</b>	35.9	35.6	-0.3	21.6	20.4	20.3	-0.1
LTC591	561192	172784	35.6	29.1	29.1	0.0	21.5	20.5	20.5	0.0
LTC598	562631	172420	32.6	26.3	26.4	0.1	21.1	20.1	20.1	0.0
LTC608	566149	170420	35.4	28.9	28.6	-0.3	21.3	20.2	20.1	-0.1
LTC609	566464	173064	36.1	29.3	29.0	-0.3	19.5	18.6	18.5	-0.1
LTC610	565709	171711	26.7	21.0	20.7	-0.3	18.9	17.8	17.7	-0.1
LTC611	566436	173055	34.5	27.6	27.5	-0.1	19.2	18.2	18.2	0.0
LTC613	565542	170664	29.9	23.8	23.9	0.1	20.9	19.9	19.9	0.0
LTC614	565849	171813	28.8	22.8	22.5	-0.3	19.2	18.2	18.1	-0.1
LTC635	571462	170747	27.7	22.4	22.4	0.0	19.2	18.2	18.2	0.0
LTC640	571315	170575	23.9	18.8	18.8	0.0	18.6	17.6	17.6	0.0
LTC643	570096	185317	28.8	23.2	23.2	0.0	19.0	18.1	18.1	0.0
LTC644	570831	186200	33.2	27.3	27.5	0.2	19.7	18.9	18.9	0.0
LTC657	566216	170381	39.1	32.0	31.7	-0.3	21.6	20.4	20.4	0.0
LTC658	563525	181000	29.8	24.0	23.9	-0.1	19.0	18.0	18.0	0.0
LTC659	563546	180915	34.8	28.4	28.4	0.0	20.4	19.4	19.4	0.0
LTC660	563598	180904	34.7	28.3	28.4	0.1	20.3	19.3	19.3	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2025	Con 2025	Change	Base 2016	DM 2025	Con 2025	Change
LTC663	560337	179771	<b>42.0</b>	33.7	33.8	0.1	22.4	21.2	21.2	0.0
LTC665	561030	179206	33.5	25.6	25.6	0.0	19.2	17.9	17.9	0.0
LTC666_F	563437	180522	29.3	23.4	23.4	0.0	19.8	18.8	18.8	0.0
LTC668_F	563766	179658	26.3	20.6	20.6	0.0	18.8	17.8	17.8	0.0
LTC685	560945	179240	34.5	26.8	26.8	0.0	21.3	20.1	20.1	0.0
LTC719	567084	172681	25.5	20.2	20.3	0.1	18.0	17.0	17.0	0.0
LTC731	563100	177507	28.7	22.3	22.4	0.1	19.7	18.7	18.7	0.0
LTC732	565284	178513	27.9	21.9	22.1	0.2	18.5	17.4	17.5	0.1
LTC733	565275	178536	27.9	21.9	22.1	0.2	18.5	17.4	17.5	0.1
LTC804	565710	170620	29.9	23.9	23.9	0.0	21.0	19.9	20.0	0.1
LTC807	570266	185664	31.5	25.9	26.1	0.2	19.4	18.6	18.6	0.0

*Change is Con concentration minus DM concentration*

*Exceedance of annual mean AQS objective highlighted in Bold*

*Underscore letters denote:*

*D = Demolished receptor (i.e. receptor removed as a result of the Project)*

*F = Future receptor*

*H = Hotel receptor*

**Table 1.2 Modelled Annual Mean NO<sub>2</sub> and PM<sub>10</sub> (µg/m<sup>3</sup>) at Human Receptors in Base 2016, Do-Minimum (DM) 2026 and Construction (Con) 2026 Scenarios**

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC_Con_001	562594	172394	32.3	25.5	25.5	0.0	21.0	20.0	20.0	0.0
LTC_Con_002	565852	171835	29.1	22.7	22.9	0.2	19.3	18.2	18.2	0.0
LTC_Con_003	564529	173148	38.1	30.0	30.0	0.0	20.5	19.5	19.5	0.0
LTC_Con_004	564597	173166	37.8	29.6	29.6	0.0	20.5	19.4	19.4	0.0
LTC_Con_005	566381	173252	32.0	25.4	25.4	0.0	18.9	18.0	18.0	0.0
LTC_Con_006	566423	173206	32.7	26.0	26.0	0.0	19.0	18.1	18.1	0.0
LTC_Con_007	566988	173065	30.7	23.7	24.1	0.4	18.7	17.6	17.8	0.2
LTC_Con_008	567118	173091	26.9	20.7	21.0	0.3	17.4	16.4	16.5	0.1
LTC_Con_009	567345	173204	26.1	20.0	20.3	0.3	17.3	16.3	16.4	0.1
LTC_Con_010	568257	173172	24.1	18.5	19.0	0.5	16.7	15.8	15.9	0.1
LTC_Con_011	568402	173153	23.8	18.2	18.5	0.3	16.7	15.7	15.8	0.1
LTC_Con_012	569391	171821	23.8	18.5	18.6	0.1	17.4	16.4	16.4	0.0
LTC_Con_013	566862	171792	26.4	19.5	19.5	0.0	19.0	17.7	17.7	0.0
LTC_Con_014	566019	178644	26.4	20.1	20.1	0.0	18.4	17.3	17.3	0.0
LTC_Con_015	559095	182892	30.2	23.6	24.7	1.1	18.8	17.7	18.0	0.3
LTC_Con_016	559598	184022	24.2	18.5	18.3	-0.2	18.5	17.4	17.3	-0.1
LTC_Con_017	559470	188460	28.4	22.1	22.1	0.0	20.3	19.2	19.2	0.0
LTC_Con_018	567075	171358	21.3	16.4	16.4	0.0	17.9	16.9	16.9	0.0
LTC_Con_019	559448	188795	31.7	24.8	24.7	-0.1	20.4	19.3	19.2	-0.1



Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC_Con_020	563904	189357	27.2	20.9	20.9	0.0	18.9	17.8	17.8	0.0
LTC_Con_021	563043	182051	23.3	17.8	17.8	0.0	18.6	17.5	17.5	0.0
LTC_Con_022	563540	181494	26.2	20.4	20.5	0.1	18.6	17.7	17.7	0.0
LTC_Con_023	563402	181407	27.7	21.9	21.9	0.0	18.9	18.0	18.0	0.0
LTC_Con_024	567319	178961	26.0	19.7	19.6	-0.1	18.2	17.1	17.1	0.0
LTC_Con_025	565039	176156	27.7	22.0	22.0	0.0	18.3	17.1	17.2	0.1
LTC_Con_026	564344	175862	37.0	29.0	29.2	0.2	18.2	16.9	17.0	0.1
LTC_Con_027	563909	176124	37.4	29.9	30.1	0.2	18.9	18.5	18.6	0.1
LTC_Con_028	563737	176264	37.7	30.4	30.7	0.3	19.0	18.6	18.7	0.1
LTC_Con_029	563099	177550	28.8	22.0	22.0	0.0	19.7	18.7	18.7	0.0
LTC_Con_030	565998	169664	21.1	16.1	16.1	0.0	17.6	16.6	16.6	0.0
LTC_Con_031	566059	169036	20.6	15.7	15.8	0.1	17.6	16.6	16.6	0.0
LTC_Con_032	566396	168752	19.9	15.2	15.2	0.0	16.1	15.1	15.1	0.0
LTC_Con_033	569498	171741	25.3	19.8	19.6	-0.2	17.7	16.7	16.7	0.0
LTC_Con_034	569410	171724	24.2	18.8	18.7	-0.1	17.5	16.5	16.5	0.0
LTC_Con_035	568957	171928	23.6	18.2	18.0	-0.2	17.6	16.7	16.6	-0.1
LTC_Con_036	559672	179653	<b>44.3</b>	35.1	35.4	0.3	22.3	21.2	21.2	0.0
LTC_Con_037	560603	180417	27.8	21.7	21.7	0.0	19.3	18.3	18.3	0.0
LTC_Con_038	557037	191875	31.7	24.7	24.1	-0.6	20.7	19.6	19.5	-0.1
LTC_Con_039	561411	180593	32.6	25.8	25.8	0.0	20.4	19.4	19.4	0.0
LTC_Con_040	566775	177620	27.7	21.3	21.4	0.1	18.5	17.5	17.5	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC_Con_041	566711	177660	27.3	20.9	21.0	0.1	18.4	17.4	17.4	0.0
LTC_Con_042_FF	564863	174019	35.8	27.4	27.4	0.0	18.4	16.8	16.8	0.0
LTC_Con_043_FF	564883	174019	36.1	27.6	27.6	0.0	18.4	16.9	16.9	0.0
LTC_Con_044	564526	173148	38.3	30.2	30.2	0.0	20.6	19.5	19.5	0.0
LTC_Con_045	564503	173178	<b>41.8</b>	33.4	33.4	0.0	21.1	20.1	20.1	0.0
LTC_Con_046	561184	157094	18.6	14.2	14.2	0.0	16.9	15.9	15.9	0.0
LTC_Con_047	561200	157095	18.9	14.5	14.5	0.0	17.0	15.9	15.9	0.0
LTC_Con_048_FF	575410	155575	27.4	21.0	21.1	0.1	19.0	17.9	17.9	0.0
LTC_Con_049	556279	190355	23.2	17.8	17.9	0.1	18.6	17.5	17.5	0.0
LTC_Con_050	569439	170319	23.6	18.3	18.3	0.0	16.7	15.7	15.7	0.0
LTC_Con_051	569325	170317	25.9	20.6	20.6	0.0	17.2	16.3	16.3	0.0
LTC_Con_052	556240	190398	23.9	18.4	18.5	0.1	18.7	17.6	17.7	0.1
LTC_Con_053	564572	182200	25.3	19.6	19.7	0.1	18.2	17.2	17.3	0.1
LTC_Con_054	564545	182218	25.5	19.8	19.9	0.1	18.2	17.3	17.3	0.0
LTC_Con_055	557977	184918	24.2	18.5	18.5	0.0	17.9	16.8	16.8	0.0
LTC_Con_056	558004	184145	26.4	20.3	20.4	0.1	19.7	18.6	18.6	0.0
LTC_Con_057	558285	183502	27.3	21.0	21.2	0.2	21.0	19.9	19.9	0.0
LTC_Con_058	559068	182869	28.0	21.6	22.0	0.4	18.4	17.3	17.4	0.1
LTC_Con_059	562573	181300	31.1	24.7	24.7	0.0	21.2	20.3	20.3	0.0
LTC004	564556	178510	32.9	26.3	26.2	-0.1	18.3	17.4	17.4	0.0
LTC005_D	563565	180885	37.2	30.2	30.2	0.0	20.6	19.6	19.6	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC010	566046	169567	21.2	16.2	16.3	0.1	17.7	16.7	16.7	0.0
LTC018	558451	185168	35.8	28.0	27.1	-0.9	20.9	19.7	19.6	-0.1
LTC019	563481	188644	30.6	24.7	24.8	0.1	19.8	18.5	18.6	0.1
LTC023	563212	189307	38.5	29.6	29.6	0.0	19.9	18.6	18.6	0.0
LTC025	563405	189411	39.7	30.2	30.3	0.1	20.2	18.8	18.8	0.0
LTC028_D	563564	180769	36.5	29.6	29.6	0.0	20.5	19.6	19.6	0.0
LTC033	570820	186331	32.3	25.9	25.9	0.0	19.1	18.1	18.1	0.0
LTC035	559987	179688	<b>44.9</b>	35.4	35.8	0.4	22.4	21.2	21.3	0.1
LTC037	564962	183863	31.6	24.5	24.7	0.2	20.2	19.2	19.3	0.1
LTC039	559264	187097	29.0	22.6	22.7	0.1	19.4	18.3	18.2	-0.1
LTC041	566254	181542	35.6	28.5	28.5	0.0	20.6	19.8	19.8	0.0
LTC043	573333	158281	31.9	25.6	25.6	0.0	20.4	19.4	19.4	0.0
LTC046	571962	158659	<b>44.8</b>	37.2	36.7	-0.5	21.9	20.6	20.6	0.0
LTC050	572140	158548	37.5	30.4	30.2	-0.2	21.1	19.9	19.9	0.0
LTC051	560947	179826	42.9	33.2	33.3	0.1	22.2	21.0	21.0	0.0
LTC054	570554	169537	39.4	32.0	32.0	0.0	20.7	19.5	19.6	0.1
LTC055	555762	173186	<b>43.7</b>	35.5	35.5	0.0	23.4	22.4	22.4	0.0
LTC061	560903	179864	<b>43.6</b>	33.2	33.4	0.2	22.3	21.0	21.0	0.0
LTC069	564193	180652	34.4	27.0	26.7	-0.3	21.0	20.1	20.0	-0.1
LTC072	557372	188786	36.7	28.7	28.4	-0.3	20.6	19.3	19.3	0.0
LTC076	568380	169747	29.3	23.1	23.1	0.0	19.0	17.9	17.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC078	561040	180521	32.6	25.8	26.0	0.2	20.3	19.3	19.3	0.0
LTC080	562206	172332	<b>40.7</b>	32.2	32.2	0.0	21.8	20.6	20.6	0.0
LTC081	560297	188782	39.6	30.7	30.5	-0.2	20.4	19.1	19.0	-0.1
LTC085	564089	186522	23.9	18.2	18.3	0.1	18.9	17.8	17.9	0.1
LTC087	565385	181401	34.6	28.9	29.0	0.1	20.7	19.8	19.9	0.1
LTC088	561069	179918	<b>44.2</b>	34.0	34.3	0.3	20.4	19.1	19.2	0.1
LTC089	560899	179228	33.1	25.7	25.7	0.0	21.1	20.0	20.0	0.0
LTC098	555672	174875	<b>42.8</b>	34.7	34.8	0.1	23.3	22.1	22.1	0.0
LTC099	561115	179875	<b>40.6</b>	32.3	32.4	0.1	20.0	18.9	19.0	0.1
LTC103	560028	179870	<b>40.2</b>	32.6	32.6	0.0	21.5	20.6	20.6	0.0
LTC104	557438	188810	37.7	29.6	29.3	-0.3	20.8	19.5	19.5	0.0
LTC109	562370	189131	38.6	30.0	29.8	-0.2	20.3	19.0	18.9	-0.1
LTC112_H	556102	175092	<b>41.5</b>	33.0	33.1	0.1	22.3	21.4	21.4	0.0
LTC113	563886	179688	30.2	24.1	24.1	0.0	19.2	18.3	18.3	0.0
LTC117	563405	178118	28.5	22.0	22.0	0.0	19.5	18.5	18.5	0.0
LTC121	563827	179654	28.5	22.4	22.4	0.0	19.0	18.1	18.1	0.0
LTC122	570708	169402	<b>44.6</b>	36.4	36.4	0.0	21.0	19.7	19.7	0.0
LTC126	555667	173214	38.3	30.6	30.6	0.0	22.6	21.6	21.6	0.0
LTC127_D	566299	170338	44.7	36.0	36.0	0.0	22.2	20.9	20.9	0.0
LTC133_D	566158	170293	32.7	25.8	25.9	0.1	21.0	19.8	19.8	0.0
LTC138	559547	179539	<b>41.8</b>	33.6	33.8	0.2	21.8	20.8	20.9	0.1

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			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC139_H	557437	179111	37.5	30.4	30.1	-0.3	20.6	19.5	19.5	0.0
LTC146_D	563539	180445	31.8	25.5	25.4	-0.1	20.1	19.2	19.2	0.0
LTC147	570857	186482	28.2	22.2	22.2	0.0	18.7	17.7	17.7	0.0
LTC148	563056	177977	33.9	26.7	26.8	0.1	20.6	19.7	19.7	0.0
LTC149	572611	158545	37.5	30.1	30.0	-0.1	21.2	20.0	20.0	0.0
LTC160	569641	159160	30.1	24.0	24.0	0.0	20.0	18.9	18.9	0.0
LTC161	569731	159209	38.6	31.5	31.6	0.1	21.0	19.7	19.8	0.1
LTC170	556961	192282	33.5	26.0	25.8	-0.2	20.7	19.5	19.5	0.0
LTC171	569969	185597	27.1	21.1	21.1	0.0	19.2	18.2	18.2	0.0
LTC172	572601	158451	30.4	23.8	23.8	0.0	20.4	19.3	19.3	0.0
LTC177_H	561349	180920	33.7	26.5	26.6	0.1	20.3	19.3	19.3	0.0
LTC178_D	558307	185117	36.9	28.9	27.6	-1.3	21.1	19.9	19.7	-0.2
LTC181_D	564903	181059	38.4	30.5	30.3	-0.2	20.3	19.7	19.6	-0.1
LTC182_H	555711	175114	<b>43.8</b>	36.3	36.3	0.0	22.2	21.2	21.2	0.0
LTC183_D	563650	180412	32.6	26.2	26.2	0.0	20.2	19.4	19.3	-0.1
LTC184	557113	191984	34.6	27.2	26.5	-0.7	21.1	19.9	19.8	-0.1
LTC185	566149	170420	35.4	28.4	28.6	0.2	21.3	20.2	20.2	0.0
LTC187	566989	159497	29.4	24.1	24.2	0.1	19.4	18.4	18.4	0.0
LTC188	573237	158000	36.4	28.8	28.8	0.0	21.0	19.9	19.9	0.0
LTC193	558144	183521	30.1	23.2	23.0	-0.2	21.3	20.1	20.1	0.0
LTC195_H	567481	169861	34.3	27.2	27.2	0.0	19.9	18.7	18.7	0.0

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			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC198	568816	159489	25.4	20.4	20.5	0.1	19.4	18.6	18.6	0.0
LTC199	560880	180609	30.2	23.9	24.0	0.1	19.5	18.5	18.5	0.0
LTC200	561728	172693	33.3	26.1	26.1	0.0	21.2	20.2	20.2	0.0
LTC205	566700	159328	26.1	21.0	21.0	0.0	19.0	18.0	18.0	0.0
LTC210_H	565459	170651	32.8	25.6	25.6	0.0	21.1	20.0	20.0	0.0
LTC219	571417	170728	28.9	23.1	23.1	0.0	19.5	18.5	18.5	0.0
LTC220_D	563573	180719	32.9	26.3	26.3	0.0	20.2	19.2	19.2	0.0
LTC222	557710	189948	28.0	21.3	21.1	-0.2	20.5	19.4	19.3	-0.1
LTC223	555916	172655	32.7	25.4	25.4	0.0	21.5	20.4	20.4	0.0
LTC225	564541	180832	33.7	26.4	26.2	-0.2	20.7	19.9	19.8	-0.1
LTC226	563551	178567	27.1	20.9	20.9	0.0	19.3	18.3	18.4	0.1
LTC229	555602	172639	32.2	25.0	25.0	0.0	21.4	20.3	20.3	0.0
LTC231	565832	181363	35.9	29.9	30.0	0.1	21.3	20.6	20.6	0.0
LTC239	564625	178310	29.3	22.9	23.0	0.1	17.9	17.0	17.0	0.0
LTC240	570400	159022	38.7	31.6	31.3	-0.3	20.5	19.3	19.3	0.0
LTC247	567142	171222	21.2	16.3	16.3	0.0	17.9	16.9	16.9	0.0
LTC248	566183	170714	33.8	27.5	27.5	0.0	21.7	20.9	20.9	0.0
LTC261	563345	181393	27.8	21.9	21.8	-0.1	18.9	18.0	17.9	-0.1
LTC262	564034	180560	32.8	25.6	25.5	-0.1	20.7	19.7	19.7	0.0
LTC263	567776	172585	21.9	16.6	16.7	0.1	17.4	16.4	16.4	0.0
LTC282	555699	174971	37.8	30.2	30.3	0.1	22.7	21.5	21.5	0.0

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			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC289_H	557310	178758	58.4	45.2	44.9	-0.3	23.2	21.6	21.6	0.0
LTC293	558900	187348	32.0	24.7	24.5	-0.2	20.3	19.1	19.1	0.0
LTC294	557986	188543	34.0	26.6	26.2	-0.4	19.8	18.5	18.4	-0.1
LTC296	557011	192496	30.8	24.1	24.1	0.0	20.5	19.5	19.5	0.0
LTC306	564584	178443	31.4	25.1	25.2	0.1	18.3	17.4	17.5	0.1
LTC310	562391	181197	35.6	28.6	28.6	0.0	21.7	20.8	20.8	0.0
LTC311	564948	183781	30.3	23.3	23.4	0.1	20.0	18.9	18.9	0.0
LTC312_D	563042	181386	27.2	21.2	21.2	0.0	18.8	17.8	17.8	0.0
LTC313	564616	181676	28.7	22.5	22.7	0.2	19.0	18.1	18.2	0.1
LTC314	563526	188306	26.3	20.6	20.8	0.2	19.0	17.9	18.0	0.1
LTC316	567001	169753	22.4	17.1	17.2	0.1	18.7	17.7	17.7	0.0
LTC317	567665	173199	25.9	19.7	19.9	0.2	17.2	16.2	16.3	0.1
LTC318	569129	171877	25.2	19.7	19.3	-0.4	17.7	16.8	16.6	-0.2
LTC319_D	566154	170274	29.9	23.4	23.5	0.1	20.7	19.6	19.6	0.0
LTC320	567774	172770	26.7	21.2	21.0	-0.2	18.3	17.3	17.2	-0.1
LTC322	567220	170965	21.3	16.3	16.3	0.0	17.0	16.0	16.0	0.0
LTC323	566174	170771	35.0	28.7	28.7	0.0	22.0	21.3	21.3	0.0
LTC325	565382	181812	33.4	26.0	26.0	0.0	20.9	19.9	20.0	0.1
LTC326	565516	180055	25.2	19.1	19.1	0.0	17.9	16.9	16.9	0.0
LTC336	571093	170878	31.7	25.5	25.2	-0.3	20.2	19.4	19.3	-0.1
LTC337	571304	170708	28.3	22.5	22.5	0.0	19.4	18.5	18.4	-0.1

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			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC338	570668	171203	27.4	21.6	21.4	-0.2	18.2	17.3	17.2	-0.1
LTC348_H	575656	155601	31.3	23.2	23.2	0.0	19.5	18.1	18.1	0.0
LTC368	558555	186997	27.8	21.3	22.1	0.8	21.0	19.9	20.1	0.2
LTC372_D	563549	180904	35.5	28.6	28.5	-0.1	20.4	19.5	19.4	-0.1
LTC373_D	563471	180982	32.0	25.4	25.5	0.1	20.0	19.1	19.1	0.0
LTC374	563769	180340	30.6	23.9	23.8	-0.1	20.1	19.1	19.0	-0.1
LTC375_D	563583	180889	36.3	29.4	29.4	0.0	20.5	19.5	19.5	0.0
LTC376	563206	181406	28.4	22.5	22.3	-0.2	19.0	18.1	18.1	0.0
LTC377	563747	180315	31.1	24.6	24.4	-0.2	20.2	19.2	19.1	-0.1
LTC378	564180	180656	33.1	26.0	25.7	-0.3	20.7	19.8	19.7	-0.1
LTC379	563296	181291	26.8	20.9	20.9	0.0	18.7	17.7	17.7	0.0
LTC390_D	558198	185085	29.7	23.1	22.0	-1.1	20.3	19.2	18.9	-0.3
LTC392	556887	192432	37.0	29.1	29.0	-0.1	21.3	20.1	20.1	0.0
LTC397	560970	172763	36.2	28.8	28.7	-0.1	21.0	19.9	19.9	0.0
LTC398	563419	181233	27.1	21.1	21.1	0.0	18.7	17.7	17.7	0.0
LTC410	566977	178793	25.1	18.9	18.9	0.0	18.2	17.1	17.1	0.0
LTC413	563756	178670	32.2	25.8	25.8	0.0	20.0	19.1	19.2	0.1
LTC442_F	563337	180578	28.8	22.5	22.5	0.0	19.7	18.7	18.7	0.0
LTC542	570702	169431	38.4	31.0	31.0	0.0	20.4	19.2	19.2	0.0
LTC543	570706	169408	<b>42.8</b>	34.9	34.9	0.0	20.8	19.6	19.5	-0.1
LTC544	570723	169430	35.6	28.6	28.6	0.0	20.1	18.9	18.9	0.0



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			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC560_F	563526	178381	35.3	29.0	29.2	0.2	20.4	19.7	19.8	0.1
LTC580	556511	188809	28.4	22.2	22.3	0.1	19.3	18.2	18.2	0.0
LTC589	564201	171209	<b>43.9</b>	35.3	35.7	0.4	21.6	20.4	20.4	0.0
LTC591	561192	172784	35.6	28.6	28.5	-0.1	21.5	20.5	20.5	0.0
LTC598	562631	172420	32.6	25.8	25.9	0.1	21.1	20.1	20.1	0.0
LTC608	566149	170420	35.4	28.4	28.6	0.2	21.3	20.2	20.2	0.0
LTC609	566464	173064	36.1	28.7	28.6	-0.1	19.5	18.6	18.5	-0.1
LTC610	565709	171711	26.7	20.7	20.7	0.0	18.9	17.8	17.8	0.0
LTC611	566436	173055	34.5	27.2	27.1	-0.1	19.2	18.3	18.2	-0.1
LTC613	565542	170664	29.9	23.4	23.5	0.1	20.9	19.9	19.9	0.0
LTC614	565849	171813	28.8	22.5	22.6	0.1	19.2	18.2	18.2	0.0
LTC635	571462	170747	27.7	22.0	22.0	0.0	19.2	18.2	18.2	0.0
LTC640	571315	170575	23.9	18.5	18.5	0.0	18.6	17.6	17.6	0.0
LTC643	570096	185317	28.8	22.8	22.8	0.0	19.0	18.1	18.1	0.0
LTC644	570831	186200	33.2	26.8	27.0	0.2	19.7	18.9	18.9	0.0
LTC657	566216	170381	39.1	31.5	31.6	0.1	21.6	20.4	20.4	0.0
LTC658	563525	181000	29.8	23.6	23.5	-0.1	19.0	18.0	18.0	0.0
LTC659	563546	180915	34.8	27.9	27.8	-0.1	20.4	19.4	19.3	-0.1
LTC660	563598	180904	34.7	27.8	27.9	0.1	20.3	19.3	19.3	0.0
LTC663	560337	179771	<b>42.0</b>	33.1	33.5	0.4	22.4	21.2	21.2	0.0
LTC665	561030	179206	33.5	25.2	25.2	0.0	19.2	17.9	17.9	0.0

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			Base 2016	DM 2026	Con 2026	Change	Base 2016	DM 2026	Con 2026	Change
LTC666_F	563437	180522	29.3	23.0	23.0	0.0	19.8	18.8	18.8	0.0
LTC668_F	563766	179658	26.3	20.3	20.3	0.0	18.8	17.8	17.8	0.0
LTC685	560945	179240	34.5	26.4	26.4	0.0	21.3	20.1	20.1	0.0
LTC719	567084	172681	25.5	19.8	19.9	0.1	18.0	17.0	17.0	0.0
LTC731	563100	177507	28.7	22.0	22.0	0.0	19.7	18.7	18.7	0.0
LTC732	565284	178513	27.9	21.5	21.7	0.2	18.5	17.4	17.5	0.1
LTC733	565275	178536	27.9	21.5	21.7	0.2	18.5	17.4	17.4	0.0
LTC804	565710	170620	29.9	23.4	23.6	0.2	21.0	19.9	20.0	0.1
LTC807	570266	185664	31.5	25.4	25.6	0.2	19.4	18.6	18.6	0.0

*Change is Con concentration minus DM concentration*

*Exceedance of annual mean AQS objective highlighted in Bold*

*Underscore letters denote:*

*D = Demolished receptor (i.e. receptor removed as a result of the Project)*

*F= Future receptor*

*H = Hotel receptor*

**Table 1.3 Modelled Annual Mean NO<sub>2</sub> and PM<sub>10</sub> (µg/m<sup>3</sup>) at Human Receptors in Base 2016, Do-Minimum (DM) 2027 and Construction (Con) 2027 Scenarios**

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC_Con_001	562594	172394	32.3	25.1	25.1	0.0	21.0	20.0	20.0	0.0
LTC_Con_002	565852	171835	29.1	22.4	22.5	0.1	19.3	18.2	18.2	0.0
LTC_Con_003	564529	173148	38.1	29.6	29.7	0.1	20.5	19.5	19.5	0.0
LTC_Con_004	564597	173166	37.8	29.2	29.4	0.2	20.5	19.4	19.4	0.0
LTC_Con_005	566381	173252	32.0	25.0	25.1	0.1	18.9	18.0	18.1	0.1
LTC_Con_006	566423	173206	32.7	25.6	25.7	0.1	19.0	18.1	18.2	0.1
LTC_Con_007	566988	173065	30.7	23.3	23.9	0.6	18.7	17.7	17.9	0.2
LTC_Con_008	567118	173091	26.9	20.4	20.8	0.4	17.4	16.4	16.5	0.1
LTC_Con_009	567345	173204	26.1	19.7	20.1	0.4	17.3	16.3	16.4	0.1
LTC_Con_010	568257	173172	24.1	18.3	18.8	0.5	16.7	15.8	15.9	0.1
LTC_Con_011	568402	173153	23.8	18.0	18.3	0.3	16.7	15.7	15.8	0.1
LTC_Con_012	569391	171821	23.8	18.2	18.5	0.3	17.4	16.4	16.5	0.1
LTC_Con_013	566862	171792	26.4	19.3	18.9	-0.4	19.0	17.7	17.6	-0.1
LTC_Con_014	566019	178644	26.4	19.8	19.9	0.1	18.4	17.3	17.4	0.1
LTC_Con_015	559095	182892	30.2	23.3	24.6	1.3	18.8	17.7	18.1	0.4
LTC_Con_016	559598	184022	24.2	18.3	18.1	-0.2	18.5	17.4	17.3	-0.1
LTC_Con_017	559470	188460	28.4	21.8	21.9	0.1	20.3	19.2	19.2	0.0
LTC_Con_018	567075	171358	21.3	16.2	15.8	-0.4	17.9	16.9	16.9	0.0
LTC_Con_019	559448	188795	31.7	24.5	24.4	-0.1	20.4	19.3	19.2	-0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC_Con_020	563904	189357	27.2	20.6	20.6	0.0	18.9	17.8	17.8	0.0
LTC_Con_021	563043	182051	23.3	17.6	17.6	0.0	18.6	17.5	17.5	0.0
LTC_Con_022	563540	181494	26.2	20.1	20.2	0.1	18.6	17.7	17.7	0.0
LTC_Con_023	563402	181407	27.7	21.6	21.6	0.0	18.9	18.0	18.0	0.0
LTC_Con_024	567319	178961	26.0	19.4	19.5	0.1	18.2	17.1	17.1	0.0
LTC_Con_025	565039	176156	27.7	21.6	21.7	0.1	18.3	17.1	17.2	0.1
LTC_Con_026	564344	175862	37.0	28.6	28.7	0.1	18.2	16.9	17.0	0.1
LTC_Con_027	563909	176124	37.4	29.4	29.6	0.2	18.9	18.5	18.6	0.1
LTC_Con_028	563737	176264	37.7	29.9	30.1	0.2	19.0	18.6	18.8	0.2
LTC_Con_029	563099	177550	28.8	21.7	21.8	0.1	19.7	18.7	18.7	0.0
LTC_Con_030	565998	169664	21.1	15.9	16.0	0.1	17.6	16.6	16.6	0.0
LTC_Con_031	566059	169036	20.6	15.5	15.7	0.2	17.6	16.6	16.7	0.1
LTC_Con_032	566396	168752	19.9	15.0	15.1	0.1	16.1	15.1	15.1	0.0
LTC_Con_033	569498	171741	25.3	19.5	19.9	0.4	17.7	16.7	16.9	0.2
LTC_Con_034	569410	171724	24.2	18.5	18.8	0.3	17.5	16.5	16.6	0.1
LTC_Con_035	568957	171928	23.6	18.0	18.2	0.2	17.6	16.7	16.8	0.1
LTC_Con_036	559672	179653	<b>44.3</b>	34.6	34.9	0.3	22.3	21.2	21.2	0.0
LTC_Con_037	560603	180417	27.8	21.4	21.4	0.0	19.3	18.3	18.3	0.0
LTC_Con_038	557037	191875	31.7	24.5	23.8	-0.7	20.7	19.6	19.5	-0.1
LTC_Con_039	561411	180593	32.6	25.4	25.5	0.1	20.4	19.4	19.4	0.0
LTC_Con_040	566775	177620	27.7	21.0	21.2	0.2	18.5	17.5	17.6	0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC_Con_041	566711	177660	27.3	20.6	20.8	0.2	18.4	17.4	17.5	0.1
LTC_Con_042_FF	564863	174019	35.8	27.1	27.1	0.0	18.4	16.8	16.8	0.0
LTC_Con_043_FF	564883	174019	36.1	27.3	27.3	0.0	18.4	16.9	16.9	0.0
LTC_Con_044	564526	173148	38.3	29.8	29.9	0.1	20.6	19.5	19.5	0.0
LTC_Con_045	564503	173178	<b>41.8</b>	32.9	33.0	0.1	21.1	20.1	20.1	0.0
LTC_Con_046	561184	157094	18.6	14.0	14.0	0.0	16.9	15.9	15.9	0.0
LTC_Con_047	561200	157095	18.9	14.3	14.3	0.0	17.0	15.9	15.9	0.0
LTC_Con_048_FF	575410	155575	27.4	20.8	20.8	0.0	19.0	17.9	17.9	0.0
LTC_Con_049	556279	190355	23.2	17.5	17.6	0.1	18.6	17.5	17.5	0.0
LTC_Con_050	569439	170319	23.6	18.0	17.7	-0.3	16.7	15.7	15.7	0.0
LTC_Con_051	569325	170317	25.9	20.3	19.2	-1.1	17.2	16.3	16.0	-0.3
LTC_Con_052	556240	190398	23.9	18.2	18.3	0.1	18.7	17.6	17.7	0.1
LTC_Con_053	564572	182200	25.3	19.3	19.4	0.1	18.2	17.3	17.3	0.0
LTC_Con_054	564545	182218	25.5	19.5	19.6	0.1	18.2	17.3	17.3	0.0
LTC_Con_055	557977	184918	24.2	18.3	18.2	-0.1	17.9	16.8	16.8	0.0
LTC_Con_056	558004	184145	26.4	20.0	20.1	0.1	19.7	18.6	18.7	0.1
LTC_Con_057	558285	183502	27.3	20.8	20.9	0.1	21.0	19.9	19.9	0.0
LTC_Con_058	559068	182869	28.0	21.3	21.8	0.5	18.4	17.3	17.4	0.1
LTC_Con_059	562573	181300	31.1	24.3	24.3	0.0	21.2	20.3	20.3	0.0
LTC004	564556	178510	32.9	25.9	25.8	-0.1	18.3	17.4	17.4	0.0
LTC005_D	563565	180885	37.2	29.7	29.8	0.1	20.6	19.6	19.6	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC010	566046	169567	21.2	16.0	16.2	0.2	17.7	16.7	16.8	0.1
LTC018	558451	185168	35.8	27.6	26.4	-1.2	20.9	19.7	19.5	-0.2
LTC019	563481	188644	30.6	24.3	24.5	0.2	19.8	18.6	18.6	0.0
LTC023	563212	189307	38.5	29.3	29.2	-0.1	19.9	18.6	18.6	0.0
LTC025	563405	189411	39.7	29.9	29.9	0.0	20.2	18.8	18.8	0.0
LTC028_D	563564	180769	36.5	29.1	29.3	0.2	20.5	19.6	19.6	0.0
LTC033	570820	186331	32.3	25.5	25.5	0.0	19.1	18.1	18.1	0.0
LTC035	559987	179688	<b>44.9</b>	34.9	35.2	0.3	22.4	21.2	21.3	0.1
LTC037	564962	183863	31.6	24.1	24.4	0.3	20.2	19.2	19.3	0.1
LTC039	559264	187097	29.0	22.4	22.5	0.1	19.4	18.3	18.3	0.0
LTC041	566254	181542	35.6	28.0	28.1	0.1	20.6	19.8	19.8	0.0
LTC043	573333	158281	31.9	25.2	25.3	0.1	20.4	19.4	19.4	0.0
LTC046	571962	158659	<b>44.8</b>	36.7	36.5	-0.2	21.9	20.5	20.6	0.1
LTC050	572140	158548	37.5	29.9	29.9	0.0	21.1	19.9	19.9	0.0
LTC051	560947	179826	<b>42.9</b>	32.8	32.8	0.0	22.2	21.0	21.0	0.0
LTC054	570554	169537	39.4	31.5	30.6	-0.9	20.7	19.5	19.5	0.0
LTC055	555762	173186	<b>43.7</b>	35.0	35.0	0.0	23.4	22.4	22.4	0.0
LTC061	560903	179864	<b>43.6</b>	32.8	32.9	0.1	22.3	21.0	21.0	0.0
LTC069	564193	180652	34.4	26.7	26.6	-0.1	21.0	20.1	20.0	-0.1
LTC072	557372	188786	36.7	28.4	28.1	-0.3	20.6	19.3	19.3	0.0
LTC076	568380	169747	29.3	22.8	21.3	-1.5	19.0	17.9	17.8	-0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC078	561040	180521	32.6	25.5	25.6	0.1	20.3	19.3	19.3	0.0
LTC080	562206	172332	<b>40.7</b>	31.7	31.7	0.0	21.8	20.6	20.6	0.0
LTC081	560297	188782	39.6	30.3	30.1	-0.2	20.4	19.0	19.0	0.0
LTC085	564089	186522	23.9	18.0	18.1	0.1	18.9	17.8	17.9	0.1
LTC087	565385	181401	34.6	28.4	28.6	0.2	20.7	19.9	19.9	0.0
LTC088	561069	179918	<b>44.2</b>	33.6	33.7	0.1	20.4	19.1	19.1	0.0
LTC089	560899	179228	33.1	25.4	25.4	0.0	21.1	20.0	20.0	0.0
LTC098	555672	174875	<b>42.8</b>	34.2	34.3	0.1	23.3	22.1	22.1	0.0
LTC099	561115	179875	<b>40.6</b>	31.8	31.7	-0.1	20.0	18.9	18.9	0.0
LTC103	560028	179870	<b>40.2</b>	32.1	32.0	-0.1	21.5	20.6	20.6	0.0
LTC104	557438	188810	37.7	29.2	28.9	-0.3	20.8	19.5	19.4	-0.1
LTC109	562370	189131	38.6	29.6	29.4	-0.2	20.3	18.9	18.9	0.0
LTC112_H	556102	175092	<b>41.5</b>	32.5	32.6	0.1	22.3	21.4	21.4	0.0
LTC113	563886	179688	30.2	23.7	23.7	0.0	19.2	18.3	18.3	0.0
LTC117	563405	178118	28.5	21.7	21.7	0.0	19.5	18.5	18.5	0.0
LTC121	563827	179654	28.5	22.1	22.1	0.0	19.0	18.1	18.1	0.0
LTC122	570708	169402	<b>44.6</b>	35.9	35.3	-0.6	21.0	19.7	19.6	-0.1
LTC126	555667	173214	38.3	30.1	30.1	0.0	22.6	21.6	21.6	0.0
LTC127_D	566299	170338	<b>44.7</b>	35.4	32.6	-2.8	22.2	20.9	20.8	-0.1
LTC133_D	566158	170293	32.7	25.4	24.5	-0.9	21.0	19.8	19.8	0.0
LTC138	559547	179539	<b>41.8</b>	33.1	33.3	0.2	21.8	20.8	20.9	0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC139_H	557437	179111	37.5	29.9	29.6	-0.3	20.6	19.5	19.5	0.0
LTC146_D	563539	180445	31.8	25.1	25.1	0.0	20.1	19.2	19.2	0.0
LTC147	570857	186482	28.2	21.8	21.9	0.1	18.7	17.7	17.7	0.0
LTC148	563056	177977	33.9	26.3	26.4	0.1	20.6	19.7	19.7	0.0
LTC149	572611	158545	37.5	29.7	29.8	0.1	21.2	20.0	20.0	0.0
LTC160	569641	159160	30.1	23.6	23.8	0.2	20.0	18.9	18.9	0.0
LTC161	569731	159209	38.6	31.0	31.3	0.3	21.0	19.7	19.8	0.1
LTC170	556961	192282	33.5	25.7	25.4	-0.3	20.7	19.5	19.5	0.0
LTC171	569969	185597	27.1	20.8	20.8	0.0	19.2	18.2	18.2	0.0
LTC172	572601	158451	30.4	23.5	23.6	0.1	20.4	19.3	19.3	0.0
LTC177_H	561349	180920	33.7	26.1	26.2	0.1	20.3	19.3	19.3	0.0
LTC178_D	558307	185117	36.9	28.5	26.8	-1.7	21.1	19.9	19.5	-0.4
LTC181_D	564903	181059	38.4	30.0	30.1	0.1	20.3	19.7	19.6	-0.1
LTC182_H	555711	175114	<b>43.8</b>	35.7	35.7	0.0	22.2	21.2	21.2	0.0
LTC183_D	563650	180412	32.6	25.8	25.8	0.0	20.2	19.4	19.4	0.0
LTC184	557113	191984	34.6	26.9	26.1	-0.8	21.1	19.9	19.8	-0.1
LTC185	566149	170420	35.4	28.0	26.9	-1.1	21.3	20.2	20.1	-0.1
LTC187	566989	159497	29.4	23.7	24.0	0.3	19.4	18.4	18.4	0.0
LTC188	573237	158000	36.4	28.3	28.4	0.1	21.0	19.9	19.9	0.0
LTC193	558144	183521	30.1	22.9	22.6	-0.3	21.3	20.1	20.1	0.0
LTC195_H	567481	169861	34.3	26.8	26.0	-0.8	19.9	18.7	18.6	-0.1



Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC198	568816	159489	25.4	20.1	20.2	0.1	19.4	18.6	18.6	0.0
LTC199	560880	180609	30.2	23.6	23.7	0.1	19.5	18.5	18.5	0.0
LTC200	561728	172693	33.3	25.7	25.7	0.0	21.2	20.2	20.2	0.0
LTC205	566700	159328	26.1	20.6	20.8	0.2	19.0	18.0	18.0	0.0
LTC210_H	565459	170651	32.8	25.2	24.9	-0.3	21.1	20.0	20.0	0.0
LTC219	571417	170728	28.9	22.8	23.3	0.5	19.5	18.5	18.7	0.2
LTC220_D	563573	180719	32.9	25.9	25.9	0.0	20.2	19.2	19.2	0.0
LTC222	557710	189948	28.0	21.0	20.8	-0.2	20.5	19.4	19.3	-0.1
LTC223	555916	172655	32.7	25.1	25.1	0.0	21.5	20.5	20.4	-0.1
LTC225	564541	180832	33.7	26.1	26.0	-0.1	20.7	19.9	19.8	-0.1
LTC226	563551	178567	27.1	20.6	20.6	0.0	19.3	18.3	18.3	0.0
LTC229	555602	172639	32.2	24.7	24.7	0.0	21.4	20.3	20.3	0.0
LTC231	565832	181363	35.9	29.4	29.4	0.0	21.3	20.6	20.6	0.0
LTC239	564625	178310	29.3	22.6	22.6	0.0	17.9	17.0	17.0	0.0
LTC240	570400	159022	38.7	31.1	31.0	-0.1	20.5	19.3	19.4	0.1
LTC247	567142	171222	21.2	16.1	15.7	-0.4	17.9	16.9	16.8	-0.1
LTC248	566183	170714	33.8	27.1	26.6	-0.5	21.7	20.9	20.9	0.0
LTC261	563345	181393	27.8	21.6	21.5	-0.1	18.9	18.0	17.9	-0.1
LTC262	564034	180560	32.8	25.3	25.5	0.2	20.7	19.7	19.7	0.0
LTC263	567776	172585	21.9	16.5	16.5	0.0	17.4	16.4	16.4	0.0
LTC282	555699	174971	37.8	29.8	29.8	0.0	22.7	21.5	21.5	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC289_H	557310	178758	58.4	44.6	44.2	-0.4	23.2	21.6	21.6	0.0
LTC293	558900	187348	32.0	24.4	24.2	-0.2	20.3	19.1	19.1	0.0
LTC294	557986	188543	34.0	26.2	25.9	-0.3	19.8	18.5	18.4	-0.1
LTC296	557011	192496	30.8	23.8	23.7	-0.1	20.5	19.5	19.5	0.0
LTC306	564584	178443	31.4	24.7	24.8	0.1	18.3	17.4	17.5	0.1
LTC310	562391	181197	35.6	28.2	28.2	0.0	21.7	20.8	20.8	0.0
LTC311	564948	183781	30.3	23.0	23.1	0.1	20.0	18.9	19.0	0.1
LTC312_D	563042	181386	27.2	21.0	21.0	0.0	18.8	17.8	17.8	0.0
LTC313	564616	181676	28.7	22.2	22.5	0.3	19.0	18.1	18.2	0.1
LTC314	563526	188306	26.3	20.3	20.5	0.2	19.0	17.9	18.0	0.1
LTC316	567001	169753	22.4	16.9	16.7	-0.2	18.7	17.7	17.7	0.0
LTC317	567665	173199	25.9	19.5	19.7	0.2	17.2	16.2	16.3	0.1
LTC318	569129	171877	25.2	19.4	19.8	0.4	17.7	16.8	16.9	0.1
LTC319_D	566154	170274	29.9	23.1	22.4	-0.7	20.7	19.6	19.6	0.0
LTC320	567774	172770	26.7	20.9	21.3	0.4	18.3	17.3	17.5	0.2
LTC322	567220	170965	21.3	16.1	15.8	-0.3	17.0	16.0	15.9	-0.1
LTC323	566174	170771	35.0	28.3	27.7	-0.6	22.0	21.3	21.3	0.0
LTC325	565382	181812	33.4	25.7	25.7	0.0	20.9	20.0	20.0	0.0
LTC326	565516	180055	25.2	18.9	18.9	0.0	17.9	16.9	16.9	0.0
LTC336	571093	170878	31.7	25.1	26.0	0.9	20.2	19.4	19.7	0.3
LTC337	571304	170708	28.3	22.2	22.7	0.5	19.4	18.5	18.6	0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC338	570668	171203	27.4	21.3	21.9	0.6	18.2	17.3	17.5	0.2
LTC348_H	575656	155601	31.3	23.0	23.0	0.0	19.5	18.2	18.2	0.0
LTC368	558555	186997	27.8	21.1	22.1	1.0	21.0	19.9	20.2	0.3
LTC372_D	563549	180904	35.5	28.2	28.3	0.1	20.4	19.5	19.5	0.0
LTC373_D	563471	180982	32.0	25.0	25.1	0.1	20.0	19.1	19.1	0.0
LTC374	563769	180340	30.6	23.6	23.6	0.0	20.1	19.1	19.1	0.0
LTC375_D	563583	180889	36.3	28.9	29.0	0.1	20.5	19.5	19.5	0.0
LTC376	563206	181406	28.4	22.1	22.1	0.0	19.0	18.1	18.1	0.0
LTC377	563747	180315	31.1	24.2	24.2	0.0	20.2	19.2	19.2	0.0
LTC378	564180	180656	33.1	25.6	25.5	-0.1	20.7	19.8	19.8	0.0
LTC379	563296	181291	26.8	20.6	20.6	0.0	18.7	17.7	17.7	0.0
LTC390_D	558198	185085	29.7	22.8	21.2	-1.6	20.3	19.2	18.7	-0.5
LTC392	556887	192432	37.0	28.7	28.5	-0.2	21.3	20.1	20.1	0.0
LTC397	560970	172763	36.2	28.3	28.2	-0.1	21.0	19.9	19.9	0.0
LTC398	563419	181233	27.1	20.8	20.8	0.0	18.7	17.7	17.7	0.0
LTC410	566977	178793	25.1	18.7	18.8	0.1	18.2	17.1	17.2	0.1
LTC413	563756	178670	32.2	25.4	25.4	0.0	20.0	19.1	19.1	0.0
LTC442_F	563337	180578	28.8	22.1	22.2	0.1	19.7	18.7	18.7	0.0
LTC542	570702	169431	38.4	30.6	30.1	-0.5	20.4	19.2	19.1	-0.1
LTC543	570706	169408	<b>42.8</b>	34.4	33.8	-0.6	20.8	19.6	19.5	-0.1
LTC544	570723	169430	35.6	28.1	27.7	-0.4	20.1	18.9	18.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC560_F	563526	178381	35.3	28.5	28.6	0.1	20.4	19.7	19.7	0.0
LTC580	556511	188809	28.4	22.0	22.0	0.0	19.3	18.2	18.2	0.0
LTC589	564201	171209	<b>43.9</b>	34.8	34.3	-0.5	21.6	20.4	20.3	-0.1
LTC591	561192	172784	35.6	28.1	28.1	0.0	21.5	20.5	20.5	0.0
LTC598	562631	172420	32.6	25.4	25.5	0.1	21.1	20.1	20.1	0.0
LTC608	566149	170420	35.4	28.0	26.9	-1.1	21.3	20.2	20.1	-0.1
LTC609	566464	173064	36.1	28.3	28.6	0.3	19.5	18.6	18.7	0.1
LTC610	565709	171711	26.7	20.4	20.3	-0.1	18.9	17.8	17.8	0.0
LTC611	566436	173055	34.5	26.8	26.9	0.1	19.2	18.3	18.3	0.0
LTC613	565542	170664	29.9	23.1	22.8	-0.3	20.9	19.9	19.9	0.0
LTC614	565849	171813	28.8	22.2	22.3	0.1	19.2	18.2	18.2	0.0
LTC635	571462	170747	27.7	21.7	22.0	0.3	19.2	18.3	18.3	0.0
LTC640	571315	170575	23.9	18.3	18.3	0.0	18.6	17.6	17.6	0.0
LTC643	570096	185317	28.8	22.5	22.5	0.0	19.0	18.1	18.1	0.0
LTC644	570831	186200	33.2	26.4	26.7	0.3	19.7	18.9	18.9	0.0
LTC657	566216	170381	39.1	31.0	29.3	-1.7	21.6	20.4	20.4	0.0
LTC658	563525	181000	29.8	23.2	23.3	0.1	19.0	18.0	18.0	0.0
LTC659	563546	180915	34.8	27.5	27.5	0.0	20.4	19.4	19.4	0.0
LTC660	563598	180904	34.7	27.4	27.5	0.1	20.3	19.4	19.4	0.0
LTC663	560337	179771	<b>42.0</b>	32.7	33.0	0.3	22.4	21.2	21.2	0.0
LTC665	561030	179206	33.5	24.9	24.9	0.0	19.2	17.9	17.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2027	Con 2027	Change	Base 2016	DM 2027	Con 2027	Change
LTC666_F	563437	180522	29.3	22.6	22.7	0.1	19.8	18.8	18.8	0.0
LTC668_F	563766	179658	26.3	20.0	20.0	0.0	18.8	17.8	17.8	0.0
LTC685	560945	179240	34.5	26.1	26.1	0.0	21.3	20.1	20.1	0.0
LTC719	567084	172681	25.5	19.5	19.4	-0.1	18.0	17.0	17.0	0.0
LTC731	563100	177507	28.7	21.7	21.7	0.0	19.7	18.7	18.7	0.0
LTC732	565284	178513	27.9	21.2	21.4	0.2	18.5	17.4	17.5	0.1
LTC733	565275	178536	27.9	21.2	21.4	0.2	18.5	17.4	17.4	0.0
LTC804	565710	170620	29.9	23.1	22.8	-0.3	21.0	20.0	19.9	-0.1
LTC807	570266	185664	31.5	25.0	25.3	0.3	19.4	18.6	18.7	0.1

*Change is Con concentration minus DM concentration*

*Exceedance of annual mean AQS objective highlighted in **Bold***

*Underscore letters denote:*

*D = Demolished receptor (i.e. receptor removed as a result of the Project)*

*F = Future receptor*

*H = Hotel receptor*

**Table 1.4 Modelled Annual Mean NO<sub>2</sub> and PM<sub>10</sub> (µg/m<sup>3</sup>) at Human Receptors in Base 2016, Do-Minimum (DM) 2028 and Construction (Con) 2028 Scenarios**

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC_Con_001	562594	172394	32.3	24.8	24.8	0.0	21.0	20.0	20.0	0.0
LTC_Con_002	565852	171835	29.1	22.1	22.2	0.1	19.3	18.2	18.2	0.0
LTC_Con_003	564529	173148	38.1	29.2	29.3	0.1	20.5	19.5	19.5	0.0
LTC_Con_004	564597	173166	37.8	28.9	29.1	0.2	20.5	19.4	19.4	0.0
LTC_Con_005	566381	173252	32.0	24.7	24.8	0.1	18.9	18.0	18.1	0.1
LTC_Con_006	566423	173206	32.7	25.2	25.3	0.1	19.0	18.1	18.2	0.1
LTC_Con_007	566988	173065	30.7	23.1	23.7	0.6	18.7	17.7	17.9	0.2
LTC_Con_008	567118	173091	26.9	20.2	20.6	0.4	17.4	16.4	16.6	0.2
LTC_Con_009	567345	173204	26.1	19.5	19.9	0.4	17.3	16.3	16.4	0.1
LTC_Con_010	568257	173172	24.1	18.1	18.6	0.5	16.7	15.8	16.0	0.2
LTC_Con_011	568402	173153	23.8	17.8	18.1	0.3	16.7	15.7	15.9	0.2
LTC_Con_012	569391	171821	23.8	18.0	18.3	0.3	17.4	16.4	16.5	0.1
LTC_Con_013	566862	171792	26.4	19.1	18.8	-0.3	19.0	17.7	17.6	-0.1
LTC_Con_014	566019	178644	26.4	19.6	19.7	0.1	18.4	17.3	17.4	0.1
LTC_Con_015	559095	182892	30.2	23.0	23.3	0.3	18.8	17.7	17.8	0.1
LTC_Con_016	559598	184022	24.2	18.1	18.0	-0.1	18.5	17.4	17.3	-0.1
LTC_Con_017	559470	188460	28.4	21.5	21.7	0.2	20.3	19.2	19.2	0.0
LTC_Con_018	567075	171358	21.3	16.0	15.6	-0.4	17.9	17.0	16.9	-0.1
LTC_Con_019	559448	188795	31.7	24.2	24.1	-0.1	20.4	19.3	19.3	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC_Con_020	563904	189357	27.2	20.4	20.4	0.0	18.9	17.8	17.9	0.1
LTC_Con_021	563043	182051	23.3	17.4	17.4	0.0	18.6	17.6	17.6	0.0
LTC_Con_022	563540	181494	26.2	19.9	19.9	0.0	18.6	17.7	17.7	0.0
LTC_Con_023	563402	181407	27.7	21.3	21.4	0.1	18.9	18.0	18.0	0.0
LTC_Con_024	567319	178961	26.0	19.2	19.3	0.1	18.2	17.1	17.1	0.0
LTC_Con_025	565039	176156	27.7	21.3	21.4	0.1	18.3	17.1	17.2	0.1
LTC_Con_026	564344	175862	37.0	28.3	28.3	0.0	18.2	16.9	17.0	0.1
LTC_Con_027	563909	176124	37.4	29.1	29.2	0.1	18.9	18.5	18.6	0.1
LTC_Con_028	563737	176264	37.7	29.5	29.7	0.2	19.0	18.7	18.8	0.1
LTC_Con_029	563099	177550	28.8	21.5	21.5	0.0	19.7	18.7	18.7	0.0
LTC_Con_030	565998	169664	21.1	15.7	15.8	0.1	17.6	16.6	16.7	0.1
LTC_Con_031	566059	169036	20.6	15.4	15.5	0.1	17.6	16.6	16.7	0.1
LTC_Con_032	566396	168752	19.9	14.8	14.9	0.1	16.1	15.1	15.1	0.0
LTC_Con_033	569498	171741	25.3	19.3	19.7	0.4	17.7	16.8	17.0	0.2
LTC_Con_034	569410	171724	24.2	18.3	18.6	0.3	17.5	16.5	16.6	0.1
LTC_Con_035	568957	171928	23.6	17.8	18.0	0.2	17.6	16.7	16.8	0.1
LTC_Con_036	559672	179653	<b>44.3</b>	34.2	34.4	0.2	22.3	21.2	21.2	0.0
LTC_Con_037	560603	180417	27.8	21.1	21.1	0.0	19.3	18.3	18.3	0.0
LTC_Con_038	557037	191875	31.7	24.2	23.5	-0.7	20.7	19.6	19.5	-0.1
LTC_Con_039	561411	180593	32.6	25.1	25.1	0.0	20.4	19.4	19.4	0.0
LTC_Con_040	566775	177620	27.7	20.7	20.9	0.2	18.5	17.5	17.5	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC_Con_041	566711	177660	27.3	20.4	20.5	0.1	18.4	17.4	17.4	0.0
LTC_Con_042_FF	564863	174019	35.8	26.8	26.8	0.0	18.4	16.9	16.9	0.0
LTC_Con_043_FF	564883	174019	36.1	27.0	27.0	0.0	18.4	16.9	16.9	0.0
LTC_Con_044	564526	173148	38.3	29.4	29.5	0.1	20.6	19.5	19.5	0.0
LTC_Con_045	564503	173178	<b>41.8</b>	32.5	32.5	0.0	21.1	20.1	20.1	0.0
LTC_Con_046	561184	157094	18.6	13.8	13.9	0.1	16.9	15.9	15.9	0.0
LTC_Con_047	561200	157095	18.9	14.1	14.1	0.0	17.0	15.9	15.9	0.0
LTC_Con_048_FF	575410	155575	27.4	20.6	20.6	0.0	19.0	17.9	17.9	0.0
LTC_Con_049	556279	190355	23.2	17.4	17.4	0.0	18.6	17.5	17.5	0.0
LTC_Con_050	569439	170319	23.6	17.8	17.5	-0.3	16.7	15.7	15.7	0.0
LTC_Con_051	569325	170317	25.9	20.0	19.0	-1.0	17.2	16.3	16.0	-0.3
LTC_Con_052	556240	190398	23.9	18.0	18.0	0.0	18.7	17.7	17.7	0.0
LTC_Con_053	564572	182200	25.3	19.1	19.2	0.1	18.2	17.3	17.3	0.0
LTC_Con_054	564545	182218	25.5	19.3	19.4	0.1	18.2	17.3	17.3	0.0
LTC_Con_055	557977	184918	24.2	18.1	18.0	-0.1	17.9	16.8	16.8	0.0
LTC_Con_056	558004	184145	26.4	19.8	19.7	-0.1	19.7	18.6	18.6	0.0
LTC_Con_057	558285	183502	27.3	20.5	20.5	0.0	21.0	19.9	19.9	0.0
LTC_Con_058	559068	182869	28.0	21.1	21.2	0.1	18.4	17.3	17.3	0.0
LTC_Con_059	562573	181300	31.1	24.0	23.6	-0.4	21.2	20.3	20.2	-0.1
LTC004	564556	178510	32.9	25.6	25.4	-0.2	18.3	17.4	17.4	0.0
LTC005_D	563565	180885	37.2	29.3	29.3	0.0	20.6	19.7	19.6	-0.1



Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC010	566046	169567	21.2	15.8	16.0	0.2	17.7	16.7	16.8	0.1
LTC018	558451	185168	35.8	27.3	26.7	-0.6	20.9	19.8	19.6	-0.2
LTC019	563481	188644	30.6	24.0	24.2	0.2	19.8	18.5	18.6	0.1
LTC023	563212	189307	38.5	29.0	29.0	0.0	19.9	18.6	18.6	0.0
LTC025	563405	189411	39.7	29.6	29.6	0.0	20.2	18.8	18.8	0.0
LTC028_D	563564	180769	36.5	28.7	28.7	0.0	20.5	19.6	19.6	0.0
LTC033	570820	186331	32.3	25.2	25.2	0.0	19.1	18.1	18.1	0.0
LTC035	559987	179688	<b>44.9</b>	34.4	34.8	0.4	22.4	21.2	21.3	0.1
LTC037	564962	183863	31.6	23.9	24.1	0.2	20.2	19.2	19.3	0.1
LTC039	559264	187097	29.0	22.1	22.4	0.3	19.4	18.3	18.3	0.0
LTC041	566254	181542	35.6	27.7	27.7	0.0	20.6	19.8	19.8	0.0
LTC043	573333	158281	31.9	24.9	25.0	0.1	20.4	19.4	19.4	0.0
LTC046	571962	158659	<b>44.8</b>	36.1	36.1	0.0	21.9	20.6	20.6	0.0
LTC050	572140	158548	37.5	29.5	29.6	0.1	21.1	19.9	19.9	0.0
LTC051	560947	179826	<b>42.9</b>	32.4	32.4	0.0	22.2	21.0	21.0	0.0
LTC054	570554	169537	39.4	31.1	30.2	-0.9	20.7	19.6	19.5	-0.1
LTC055	555762	173186	<b>43.7</b>	34.5	35.5	1.0	23.4	22.4	22.4	0.0
LTC061	560903	179864	<b>43.6</b>	32.4	32.5	0.1	22.3	21.0	21.0	0.0
LTC069	564193	180652	34.4	26.4	26.3	-0.1	21.0	20.1	20.1	0.0
LTC072	557372	188786	36.7	28.0	27.8	-0.2	20.6	19.3	19.3	0.0
LTC076	568380	169747	29.3	22.5	21.2	-1.3	19.0	17.9	17.8	-0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC078	561040	180521	32.6	25.2	25.2	0.0	20.3	19.3	19.3	0.0
LTC080	562206	172332	<b>40.7</b>	31.3	31.3	0.0	21.8	20.7	20.6	-0.1
LTC081	560297	188782	39.6	30.0	29.8	-0.2	20.4	19.0	19.0	0.0
LTC085	564089	186522	23.9	17.8	17.9	0.1	18.9	17.8	17.9	0.1
LTC087	565385	181401	34.6	28.0	28.2	0.2	20.7	19.9	19.9	0.0
LTC088	561069	179918	<b>44.2</b>	33.2	33.2	0.0	20.4	19.1	19.1	0.0
LTC089	560899	179228	33.1	25.1	25.1	0.0	21.1	20.0	20.0	0.0
LTC098	555672	174875	<b>42.8</b>	33.8	33.9	0.1	23.3	22.1	22.1	0.0
LTC099	561115	179875	<b>40.6</b>	31.4	31.3	-0.1	20.0	18.9	18.9	0.0
LTC103	560028	179870	<b>40.2</b>	31.6	31.6	0.0	21.5	20.6	20.6	0.0
LTC104	557438	188810	37.7	28.9	28.6	-0.3	20.8	19.5	19.4	-0.1
LTC109	562370	189131	38.6	29.3	29.1	-0.2	20.3	19.0	18.9	-0.1
LTC112_H	556102	175092	<b>41.5</b>	32.1	32.1	0.0	22.3	21.4	21.4	0.0
LTC113	563886	179688	30.2	23.4	23.3	-0.1	19.2	18.3	18.3	0.0
LTC117	563405	178118	28.5	21.4	21.4	0.0	19.5	18.5	18.5	0.0
LTC121	563827	179654	28.5	21.8	21.7	-0.1	19.0	18.1	18.1	0.0
LTC122	570708	169402	<b>44.6</b>	35.4	34.7	-0.7	21.0	19.7	19.6	-0.1
LTC126	555667	173214	38.3	29.7	30.1	0.4	22.6	21.6	21.6	0.0
LTC127_D	566299	170338	<b>44.7</b>	35.0	31.8	-3.2	22.2	20.9	20.8	-0.1
LTC133_D	566158	170293	32.7	25.1	23.8	-1.3	21.0	19.8	19.8	0.0
LTC138	559547	179539	<b>41.8</b>	32.7	32.8	0.1	21.8	20.8	20.9	0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC139_H	557437	179111	37.5	29.5	29.4	-0.1	20.6	19.5	19.5	0.0
LTC146_D	563539	180445	31.8	24.7	24.7	0.0	20.1	19.2	19.2	0.0
LTC147	570857	186482	28.2	21.6	21.6	0.0	18.7	17.8	17.8	0.0
LTC148	563056	177977	33.9	26.0	26.0	0.0	20.6	19.7	19.7	0.0
LTC149	572611	158545	37.5	29.3	29.4	0.1	21.2	20.0	20.0	0.0
LTC160	569641	159160	30.1	23.3	23.4	0.1	20.0	18.9	18.9	0.0
LTC161	569731	159209	38.6	30.6	30.9	0.3	21.0	19.8	19.8	0.0
LTC170	556961	192282	33.5	25.4	25.1	-0.3	20.7	19.5	19.5	0.0
LTC171	569969	185597	27.1	20.6	20.6	0.0	19.2	18.2	18.2	0.0
LTC172	572601	158451	30.4	23.2	23.3	0.1	20.4	19.3	19.3	0.0
LTC177_H	561349	180920	33.7	25.8	25.9	0.1	20.3	19.3	19.3	0.0
LTC178_D	558307	185117	36.9	28.2	27.4	-0.8	21.1	19.9	19.8	-0.1
LTC181_D	564903	181059	38.4	29.7	29.6	-0.1	20.3	19.7	19.7	0.0
LTC182_H	555711	175114	<b>43.8</b>	35.2	35.2	0.0	22.2	21.2	21.2	0.0
LTC183_D	563650	180412	32.6	25.5	25.4	-0.1	20.2	19.4	19.4	0.0
LTC184	557113	191984	34.6	26.6	25.8	-0.8	21.1	19.9	19.8	-0.1
LTC185	566149	170420	35.4	27.6	26.0	-1.6	21.3	20.2	20.1	-0.1
LTC187	566989	159497	29.4	23.4	23.6	0.2	19.4	18.4	18.4	0.0
LTC188	573237	158000	36.4	28.0	28.1	0.1	21.0	19.9	19.9	0.0
LTC193	558144	183521	30.1	22.7	22.4	-0.3	21.3	20.1	20.1	0.0
LTC195_H	567481	169861	34.3	26.5	25.2	-1.3	19.9	18.7	18.6	-0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC198	568816	159489	25.4	19.8	19.9	0.1	19.4	18.6	18.6	0.0
LTC199	560880	180609	30.2	23.3	23.3	0.0	19.5	18.5	18.5	0.0
LTC200	561728	172693	33.3	25.4	25.3	-0.1	21.2	20.2	20.2	0.0
LTC205	566700	159328	26.1	20.3	20.5	0.2	19.0	18.0	18.1	0.1
LTC210_H	565459	170651	32.8	24.9	24.5	-0.4	21.1	20.0	20.0	0.0
LTC219	571417	170728	28.9	22.5	23.0	0.5	19.5	18.6	18.7	0.1
LTC220_D	563573	180719	32.9	25.5	25.5	0.0	20.2	19.3	19.2	-0.1
LTC222	557710	189948	28.0	20.8	20.6	-0.2	20.5	19.4	19.3	-0.1
LTC223	555916	172655	32.7	24.8	24.8	0.0	21.5	20.5	20.5	0.0
LTC225	564541	180832	33.7	25.8	25.7	-0.1	20.7	19.9	19.9	0.0
LTC226	563551	178567	27.1	20.3	20.3	0.0	19.3	18.4	18.4	0.0
LTC229	555602	172639	32.2	24.4	24.4	0.0	21.4	20.3	20.3	0.0
LTC231	565832	181363	35.9	28.9	29.0	0.1	21.3	20.6	20.6	0.0
LTC239	564625	178310	29.3	22.3	22.4	0.1	17.9	17.0	17.0	0.0
LTC240	570400	159022	38.7	30.7	30.6	-0.1	20.5	19.3	19.4	0.1
LTC247	567142	171222	21.2	15.9	15.6	-0.3	17.9	16.9	16.9	0.0
LTC248	566183	170714	33.8	26.7	26.0	-0.7	21.7	21.0	20.9	-0.1
LTC261	563345	181393	27.8	21.3	21.3	0.0	18.9	18.0	18.0	0.0
LTC262	564034	180560	32.8	25.0	25.2	0.2	20.7	19.8	19.8	0.0
LTC263	567776	172585	21.9	16.3	16.3	0.0	17.4	16.4	16.4	0.0
LTC282	555699	174971	37.8	29.4	29.5	0.1	22.7	21.5	21.5	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC289_H	557310	178758	<b>58.4</b>	<b>44.1</b>	<b>43.8</b>	-0.3	23.2	21.6	21.5	-0.1
LTC293	558900	187348	32.0	24.2	23.9	-0.3	20.3	19.1	19.1	0.0
LTC294	557986	188543	34.0	25.9	25.7	-0.2	19.8	18.5	18.4	-0.1
LTC296	557011	192496	30.8	23.5	23.4	-0.1	20.5	19.5	19.5	0.0
LTC306	564584	178443	31.4	24.3	24.5	0.2	18.3	17.4	17.5	0.1
LTC310	562391	181197	35.6	27.8	27.4	-0.4	21.7	20.8	20.7	-0.1
LTC311	564948	183781	30.3	22.8	22.9	0.1	20.0	18.9	19.0	0.1
LTC312_D	563042	181386	27.2	20.7	21.7	1.0	18.8	17.8	18.2	0.4
LTC313	564616	181676	28.7	21.9	21.9	0.0	19.0	18.2	18.1	-0.1
LTC314	563526	188306	26.3	20.0	20.2	0.2	19.0	17.9	18.0	0.1
LTC316	567001	169753	22.4	16.7	16.4	-0.3	18.7	17.7	17.7	0.0
LTC317	567665	173199	25.9	19.3	19.5	0.2	17.2	16.2	16.3	0.1
LTC318	569129	171877	25.2	19.2	19.6	0.4	17.7	16.8	16.9	0.1
LTC319_D	566154	170274	29.9	22.8	21.9	-0.9	20.7	19.6	19.6	0.0
LTC320	567774	172770	26.7	20.6	21.1	0.5	18.3	17.3	17.5	0.2
LTC322	567220	170965	21.3	15.9	15.7	-0.2	17.0	16.0	16.0	0.0
LTC323	566174	170771	35.0	27.9	27.1	-0.8	22.0	21.3	21.3	0.0
LTC325	565382	181812	33.4	25.4	25.5	0.1	20.9	20.0	20.0	0.0
LTC326	565516	180055	25.2	18.7	18.7	0.0	17.9	16.9	16.9	0.0
LTC336	571093	170878	31.7	24.7	25.8	1.1	20.2	19.4	19.7	0.3
LTC337	571304	170708	28.3	21.9	22.5	0.6	19.4	18.5	18.7	0.2

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC338	570668	171203	27.4	21.0	21.7	0.7	18.2	17.3	17.5	0.2
LTC348_H	575656	155601	31.3	22.8	22.8	0.0	19.5	18.2	18.2	0.0
LTC368	558555	186997	27.8	20.8	21.1	0.3	21.0	19.9	20.0	0.1
LTC372_D	563549	180904	35.5	27.8	27.8	0.0	20.4	19.5	19.5	0.0
LTC373_D	563471	180982	32.0	24.7	24.7	0.0	20.0	19.1	19.1	0.0
LTC374	563769	180340	30.6	23.3	23.3	0.0	20.1	19.1	19.1	0.0
LTC375_D	563583	180889	36.3	28.5	28.5	0.0	20.5	19.5	19.5	0.0
LTC376	563206	181406	28.4	21.9	21.8	-0.1	19.0	18.1	18.1	0.0
LTC377	563747	180315	31.1	23.9	23.9	0.0	20.2	19.2	19.2	0.0
LTC378	564180	180656	33.1	25.3	25.3	0.0	20.7	19.8	19.8	0.0
LTC379	563296	181291	26.8	20.4	20.4	0.0	18.7	17.7	17.7	0.0
LTC390_D	558198	185085	29.7	22.5	22.0	-0.5	20.3	19.2	19.1	-0.1
LTC392	556887	192432	37.0	28.4	28.2	-0.2	21.3	20.1	20.1	0.0
LTC397	560970	172763	36.2	28.0	27.8	-0.2	21.0	20.0	19.9	-0.1
LTC398	563419	181233	27.1	20.6	20.6	0.0	18.7	17.7	17.7	0.0
LTC410	566977	178793	25.1	18.5	18.6	0.1	18.2	17.2	17.2	0.0
LTC413	563756	178670	32.2	25.1	25.0	-0.1	20.0	19.2	19.2	0.0
LTC442_F	563337	180578	28.8	21.9	21.9	0.0	19.7	18.8	18.8	0.0
LTC542	570702	169431	38.4	30.1	29.6	-0.5	20.4	19.2	19.1	-0.1
LTC543	570706	169408	<b>42.8</b>	33.9	33.3	-0.6	20.8	19.6	19.5	-0.1
LTC544	570723	169430	35.6	27.8	27.3	-0.5	20.1	18.9	18.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC560_F	563526	178381	35.3	28.1	28.1	0.0	20.4	19.7	19.7	0.0
LTC580	556511	188809	28.4	21.7	21.7	0.0	19.3	18.2	18.2	0.0
LTC589	564201	171209	<b>43.9</b>	34.4	33.8	-0.6	21.6	20.4	20.3	-0.1
LTC591	561192	172784	35.6	27.7	27.7	0.0	21.5	20.5	20.5	0.0
LTC598	562631	172420	32.6	25.1	25.1	0.0	21.1	20.1	20.1	0.0
LTC608	566149	170420	35.4	27.6	26.0	-1.6	21.3	20.2	20.1	-0.1
LTC609	566464	173064	36.1	27.9	28.2	0.3	19.5	18.6	18.7	0.1
LTC610	565709	171711	26.7	20.2	20.0	-0.2	18.9	17.8	17.8	0.0
LTC611	566436	173055	34.5	26.4	26.6	0.2	19.2	18.3	18.3	0.0
LTC613	565542	170664	29.9	22.8	22.4	-0.4	20.9	19.9	19.9	0.0
LTC614	565849	171813	28.8	21.9	21.9	0.0	19.2	18.2	18.2	0.0
LTC635	571462	170747	27.7	21.4	21.7	0.3	19.2	18.3	18.4	0.1
LTC640	571315	170575	23.9	18.0	18.1	0.1	18.6	17.6	17.7	0.1
LTC643	570096	185317	28.8	22.2	22.2	0.0	19.0	18.1	18.1	0.0
LTC644	570831	186200	33.2	26.0	26.3	0.3	19.7	18.9	18.9	0.0
LTC657	566216	170381	39.1	30.6	28.2	-2.4	21.6	20.4	20.4	0.0
LTC658	563525	181000	29.8	22.9	22.9	0.0	19.0	18.0	18.0	0.0
LTC659	563546	180915	34.8	27.1	27.1	0.0	20.4	19.4	19.4	0.0
LTC660	563598	180904	34.7	27.0	27.1	0.1	20.3	19.4	19.4	0.0
LTC663	560337	179771	<b>42.0</b>	32.3	32.5	0.2	22.4	21.2	21.2	0.0
LTC665	561030	179206	33.5	24.7	24.7	0.0	19.2	17.9	17.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2028	Con 2028	Change	Base 2016	DM 2028	Con 2028	Change
LTC666_F	563437	180522	29.3	22.4	22.3	-0.1	19.8	18.8	18.8	0.0
LTC668_F	563766	179658	26.3	19.8	19.8	0.0	18.8	17.8	17.8	0.0
LTC685	560945	179240	34.5	25.8	25.8	0.0	21.3	20.1	20.1	0.0
LTC719	567084	172681	25.5	19.3	19.2	-0.1	18.0	17.0	17.0	0.0
LTC731	563100	177507	28.7	21.5	21.5	0.0	19.7	18.7	18.7	0.0
LTC732	565284	178513	27.9	21.0	21.1	0.1	18.5	17.4	17.4	0.0
LTC733	565275	178536	27.9	21.0	21.1	0.1	18.5	17.4	17.4	0.0
LTC804	565710	170620	29.9	22.8	22.2	-0.6	21.0	20.0	19.9	-0.1
LTC807	570266	185664	31.5	24.7	24.9	0.2	19.4	18.6	18.6	0.0

*Change is Con concentration minus DM concentration*

*Exceedance of annual mean AQS objective highlighted in **Bold***

*Underscore letters denote:*

*D = Demolished receptor (i.e. receptor removed as a result of the Project)*

*F= Future receptor*

*H = Hotel receptor*



**Table 1.5 Modelled Annual Mean NO<sub>2</sub> and PM<sub>10</sub> (µg/m<sup>3</sup>) at Human Receptors in Base 2016, Do-Minimum (DM) 2029 and Construction (Con) 2029 Scenarios**

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC_Con_001	562594	172394	32.3	24.5	24.5	0.0	21.0	20.0	20.0	0.0
LTC_Con_002	565852	171835	29.1	21.9	22.0	0.1	19.3	18.2	18.2	0.0
LTC_Con_003	564529	173148	38.1	28.9	28.9	0.0	20.5	19.5	19.5	0.0
LTC_Con_004	564597	173166	37.8	28.6	28.6	0.0	20.5	19.4	19.4	0.0
LTC_Con_005	566381	173252	32.0	24.4	24.4	0.0	18.9	18.0	18.0	0.0
LTC_Con_006	566423	173206	32.7	24.9	24.9	0.0	19.0	18.1	18.1	0.0
LTC_Con_007	566988	173065	30.7	22.9	23.0	0.1	18.7	17.7	17.7	0.0
LTC_Con_008	567118	173091	26.9	20.0	20.1	0.1	17.4	16.4	16.5	0.1
LTC_Con_009	567345	173204	26.1	19.3	19.4	0.1	17.3	16.3	16.3	0.0
LTC_Con_010	568257	173172	24.1	17.9	18.0	0.1	16.7	15.8	15.8	0.0
LTC_Con_011	568402	173153	23.8	17.6	17.7	0.1	16.7	15.7	15.7	0.0
LTC_Con_012	569391	171821	23.8	17.8	17.8	0.0	17.4	16.4	16.4	0.0
LTC_Con_013	566862	171792	26.4	19.0	18.9	-0.1	19.0	17.7	17.6	-0.1
LTC_Con_014	566019	178644	26.4	19.4	19.5	0.1	18.4	17.3	17.4	0.1
LTC_Con_015	559095	182892	30.2	22.7	22.7	0.0	18.8	17.7	17.7	0.0
LTC_Con_016	559598	184022	24.2	17.9	17.9	0.0	18.5	17.4	17.4	0.0
LTC_Con_017	559470	188460	28.4	21.3	21.4	0.1	20.3	19.2	19.2	0.0
LTC_Con_018	567075	171358	21.3	15.8	15.7	-0.1	17.9	17.0	16.9	-0.1
LTC_Con_019	559448	188795	31.7	24.0	23.9	-0.1	20.4	19.3	19.3	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC_Con_020	563904	189357	27.2	20.2	20.2	0.0	18.9	17.8	17.9	0.1
LTC_Con_021	563043	182051	23.3	17.2	17.2	0.0	18.6	17.5	17.5	0.0
LTC_Con_022	563540	181494	26.2	19.7	19.7	0.0	18.6	17.7	17.7	0.0
LTC_Con_023	563402	181407	27.7	21.1	21.1	0.0	18.9	18.0	18.0	0.0
LTC_Con_024	567319	178961	26.0	19.1	19.1	0.0	18.2	17.1	17.1	0.0
LTC_Con_025	565039	176156	27.7	21.1	21.1	0.0	18.3	17.1	17.2	0.1
LTC_Con_026	564344	175862	37.0	27.9	28.0	0.1	18.2	16.9	16.9	0.0
LTC_Con_027	563909	176124	37.4	28.6	28.7	0.1	18.9	18.5	18.5	0.0
LTC_Con_028	563737	176264	37.7	29.1	29.1	0.0	19.0	18.6	18.6	0.0
LTC_Con_029	563099	177550	28.8	21.3	21.3	0.0	19.7	18.7	18.7	0.0
LTC_Con_030	565998	169664	21.1	15.6	15.7	0.1	17.6	16.6	16.7	0.1
LTC_Con_031	566059	169036	20.6	15.2	15.4	0.2	17.6	16.6	16.7	0.1
LTC_Con_032	566396	168752	19.9	14.7	14.8	0.1	16.1	15.1	15.1	0.0
LTC_Con_033	569498	171741	25.3	19.1	19.2	0.1	17.7	16.8	16.8	0.0
LTC_Con_034	569410	171724	24.2	18.1	18.2	0.1	17.5	16.5	16.6	0.1
LTC_Con_035	568957	171928	23.6	17.6	17.7	0.1	17.6	16.7	16.7	0.0
LTC_Con_036	559672	179653	<b>44.3</b>	33.8	33.7	-0.1	22.3	21.2	21.2	0.0
LTC_Con_037	560603	180417	27.8	20.9	20.9	0.0	19.3	18.3	18.3	0.0
LTC_Con_038	557037	191875	31.7	24.0	23.4	-0.6	20.7	19.6	19.5	-0.1
LTC_Con_039	561411	180593	32.6	24.8	24.8	0.0	20.4	19.4	19.4	0.0
LTC_Con_040	566775	177620	27.7	20.5	20.6	0.1	18.5	17.5	17.5	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC_Con_041	566711	177660	27.3	20.2	20.3	0.1	18.4	17.4	17.4	0.0
LTC_Con_042_FF	564863	174019	35.8	26.5	26.5	0.0	18.4	16.9	16.9	0.0
LTC_Con_043_FF	564883	174019	36.1	26.7	26.7	0.0	18.4	16.9	16.9	0.0
LTC_Con_044	564526	173148	38.3	29.1	29.1	0.0	20.6	19.5	19.5	0.0
LTC_Con_045	564503	173178	<b>41.8</b>	32.1	32.1	0.0	21.1	20.1	20.1	0.0
LTC_Con_046	561184	157094	18.6	13.7	13.7	0.0	16.9	15.9	15.9	0.0
LTC_Con_047	561200	157095	18.9	14.0	14.0	0.0	17.0	15.9	15.9	0.0
LTC_Con_048_FF	575410	155575	27.4	20.3	20.4	0.1	19.0	17.9	17.9	0.0
LTC_Con_049	556279	190355	23.2	17.2	17.2	0.0	18.6	17.5	17.5	0.0
LTC_Con_050	569439	170319	23.6	17.6	17.6	0.0	16.7	15.7	15.7	0.0
LTC_Con_051	569325	170317	25.9	19.8	19.8	0.0	17.2	16.3	16.3	0.0
LTC_Con_052	556240	190398	23.9	17.8	17.8	0.0	18.7	17.7	17.7	0.0
LTC_Con_053	564572	182200	25.3	18.9	19.0	0.1	18.2	17.3	17.3	0.0
LTC_Con_054	564545	182218	25.5	19.1	19.2	0.1	18.2	17.3	17.3	0.0
LTC_Con_055	557977	184918	24.2	17.9	17.9	0.0	17.9	16.8	16.8	0.0
LTC_Con_056	558004	184145	26.4	19.6	19.6	0.0	19.7	18.6	18.6	0.0
LTC_Con_057	558285	183502	27.3	20.4	20.3	-0.1	21.0	19.9	19.8	-0.1
LTC_Con_058	559068	182869	28.0	20.9	20.9	0.0	18.4	17.3	17.3	0.0
LTC_Con_059	562573	181300	31.1	23.7	23.2	-0.5	21.2	20.3	20.1	-0.2
LTC004	564556	178510	32.9	25.3	25.2	-0.1	18.3	17.4	17.4	0.0
LTC005_D	563565	180885	37.2	28.9	28.5	-0.4	20.6	19.7	19.7	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC010	566046	169567	21.2	15.7	15.9	0.2	17.7	16.7	16.8	0.1
LTC018	558451	185168	35.8	27.0	26.9	-0.1	20.9	19.8	19.7	-0.1
LTC019	563481	188644	30.6	23.8	24.0	0.2	19.8	18.5	18.6	0.1
LTC023	563212	189307	38.5	28.7	28.7	0.0	19.9	18.6	18.6	0.0
LTC025	563405	189411	39.7	29.4	29.4	0.0	20.2	18.8	18.8	0.0
LTC028_D	563564	180769	36.5	28.4	27.9	-0.5	20.5	19.6	19.7	0.1
LTC033	570820	186331	32.3	24.9	24.9	0.0	19.1	18.1	18.1	0.0
LTC035	559987	179688	<b>44.9</b>	34.0	34.0	0.0	22.4	21.2	21.2	0.0
LTC037	564962	183863	31.6	23.6	23.8	0.2	20.2	19.2	19.2	0.0
LTC039	559264	187097	29.0	21.9	21.9	0.0	19.4	18.3	18.3	0.0
LTC041	566254	181542	35.6	27.3	27.3	0.0	20.6	19.8	19.8	0.0
LTC043	573333	158281	31.9	24.6	24.6	0.0	20.4	19.4	19.4	0.0
LTC046	571962	158659	<b>44.8</b>	35.6	35.3	-0.3	21.9	20.6	20.6	0.0
LTC050	572140	158548	37.5	29.1	29.0	-0.1	21.1	19.9	19.9	0.0
LTC051	560947	179826	<b>42.9</b>	32.0	32.0	0.0	22.2	21.0	21.0	0.0
LTC054	570554	169537	39.4	30.7	30.2	-0.5	20.7	19.6	19.5	-0.1
LTC055	555762	173186	<b>43.7</b>	34.1	34.1	0.0	23.4	22.4	22.4	0.0
LTC061	560903	179864	<b>43.6</b>	32.0	32.0	0.0	22.3	21.0	21.0	0.0
LTC069	564193	180652	34.4	26.1	26.0	-0.1	21.0	20.1	20.1	0.0
LTC072	557372	188786	36.7	27.8	27.8	0.0	20.6	19.3	19.3	0.0
LTC076	568380	169747	29.3	22.2	21.7	-0.5	19.0	17.9	17.9	0.0

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			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC078	561040	180521	32.6	24.9	24.9	0.0	20.3	19.3	19.3	0.0
LTC080	562206	172332	<b>40.7</b>	31.0	31.0	0.0	21.8	20.7	20.7	0.0
LTC081	560297	188782	39.6	29.7	29.7	0.0	20.4	19.1	19.1	0.0
LTC085	564089	186522	23.9	17.6	17.7	0.1	18.9	17.8	17.9	0.1
LTC087	565385	181401	34.6	27.6	27.4	-0.2	20.7	19.9	19.9	0.0
LTC088	561069	179918	<b>44.2</b>	32.8	32.8	0.0	20.4	19.1	19.1	0.0
LTC089	560899	179228	33.1	24.8	24.8	0.0	21.1	20.0	20.0	0.0
LTC098	555672	174875	<b>42.8</b>	33.4	33.4	0.0	23.3	22.1	22.1	0.0
LTC099	561115	179875	<b>40.6</b>	31.0	31.0	0.0	20.0	18.9	18.9	0.0
LTC103	560028	179870	<b>40.2</b>	31.2	31.2	0.0	21.5	20.6	20.6	0.0
LTC104	557438	188810	37.7	28.6	28.7	0.1	20.8	19.5	19.5	0.0
LTC109	562370	189131	38.6	29.0	28.9	-0.1	20.3	18.9	19.0	0.1
LTC112_H	556102	175092	<b>41.5</b>	31.7	31.7	0.0	22.3	21.4	21.4	0.0
LTC113	563886	179688	30.2	23.1	23.1	0.0	19.2	18.3	18.3	0.0
LTC117	563405	178118	28.5	21.2	21.2	0.0	19.5	18.5	18.5	0.0
LTC121	563827	179654	28.5	21.6	21.5	-0.1	19.0	18.1	18.1	0.0
LTC122	570708	169402	<b>44.6</b>	35.0	34.7	-0.3	21.0	19.7	19.7	0.0
LTC126	555667	173214	38.3	29.4	29.4	0.0	22.6	21.6	21.6	0.0
LTC127_D	566299	170338	<b>44.7</b>	34.6	33.7	-0.9	22.2	20.9	20.9	0.0
LTC133_D	566158	170293	32.7	24.9	24.7	-0.2	21.0	19.8	19.9	0.1
LTC138	559547	179539	<b>41.8</b>	32.3	32.3	0.0	21.8	20.8	20.8	0.0

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			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC139_H	557437	179111	37.5	29.2	29.1	-0.1	20.6	19.5	19.5	0.0
LTC146_D	563539	180445	31.8	24.4	24.3	-0.1	20.1	19.2	19.2	0.0
LTC147	570857	186482	28.2	21.4	21.4	0.0	18.7	17.7	17.8	0.1
LTC148	563056	177977	33.9	25.7	25.7	0.0	20.6	19.7	19.7	0.0
LTC149	572611	158545	37.5	29.0	28.9	-0.1	21.2	20.0	20.0	0.0
LTC160	569641	159160	30.1	23.0	23.1	0.1	20.0	18.9	18.9	0.0
LTC161	569731	159209	38.6	30.2	30.3	0.1	21.0	19.8	19.8	0.0
LTC170	556961	192282	33.5	25.2	25.0	-0.2	20.7	19.5	19.5	0.0
LTC171	569969	185597	27.1	20.4	20.4	0.0	19.2	18.2	18.2	0.0
LTC172	572601	158451	30.4	22.9	22.9	0.0	20.4	19.3	19.3	0.0
LTC177_H	561349	180920	33.7	25.6	25.6	0.0	20.3	19.3	19.3	0.0
LTC178_D	558307	185117	36.9	28.0	27.6	-0.4	21.1	19.9	19.9	0.0
LTC181_D	564903	181059	38.4	29.4	33.8	4.4	20.3	19.7	21.4	1.7
LTC182_H	555711	175114	<b>43.8</b>	34.8	34.8	0.0	22.2	21.2	21.2	0.0
LTC183_D	563650	180412	32.6	25.1	25.1	0.0	20.2	19.4	19.4	0.0
LTC184	557113	191984	34.6	26.4	25.7	-0.7	21.1	19.9	19.8	-0.1
LTC185	566149	170420	35.4	27.3	27.1	-0.2	21.3	20.2	20.2	0.0
LTC187	566989	159497	29.4	23.1	23.1	0.0	19.4	18.4	18.4	0.0
LTC188	573237	158000	36.4	27.7	27.7	0.0	21.0	19.9	19.9	0.0
LTC193	558144	183521	30.1	22.5	22.3	-0.2	21.3	20.1	20.1	0.0
LTC195_H	567481	169861	34.3	26.2	25.7	-0.5	19.9	18.7	18.7	0.0

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			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC198	568816	159489	25.4	19.6	19.6	0.0	19.4	18.6	18.6	0.0
LTC199	560880	180609	30.2	23.0	23.0	0.0	19.5	18.5	18.5	0.0
LTC200	561728	172693	33.3	25.1	25.2	0.1	21.2	20.2	20.2	0.0
LTC205	566700	159328	26.1	20.1	20.2	0.1	19.0	18.0	18.0	0.0
LTC210_H	565459	170651	32.8	24.7	24.6	-0.1	21.1	20.0	20.0	0.0
LTC219	571417	170728	28.9	22.2	22.5	0.3	19.5	18.6	18.6	0.0
LTC220_D	563573	180719	32.9	25.2	24.9	-0.3	20.2	19.3	19.2	-0.1
LTC222	557710	189948	28.0	20.6	20.6	0.0	20.5	19.4	19.4	0.0
LTC223	555916	172655	32.7	24.5	24.5	0.0	21.5	20.5	20.5	0.0
LTC225	564541	180832	33.7	25.5	25.5	0.0	20.7	19.9	20.0	0.1
LTC226	563551	178567	27.1	20.1	20.1	0.0	19.3	18.4	18.4	0.0
LTC229	555602	172639	32.2	24.1	24.1	0.0	21.4	20.4	20.4	0.0
LTC231	565832	181363	35.9	28.5	28.5	0.0	21.3	20.6	20.6	0.0
LTC239	564625	178310	29.3	22.1	22.1	0.0	17.9	17.0	17.0	0.0
LTC240	570400	159022	38.7	30.3	30.1	-0.2	20.5	19.3	19.3	0.0
LTC247	567142	171222	21.2	15.7	15.6	-0.1	17.9	16.9	16.9	0.0
LTC248	566183	170714	33.8	26.4	26.1	-0.3	21.7	21.0	20.9	-0.1
LTC261	563345	181393	27.8	21.0	21.0	0.0	18.9	18.0	18.0	0.0
LTC262	564034	180560	32.8	24.7	24.9	0.2	20.7	19.8	19.8	0.0
LTC263	567776	172585	21.9	16.1	16.2	0.1	17.4	16.4	16.4	0.0
LTC282	555699	174971	37.8	29.1	29.1	0.0	22.7	21.5	21.5	0.0

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			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC289_H	557310	178758	58.4	43.6	43.4	-0.2	23.2	21.6	21.6	0.0
LTC293	558900	187348	32.0	23.9	24.1	0.2	20.3	19.1	19.1	0.0
LTC294	557986	188543	34.0	25.7	25.6	-0.1	19.8	18.5	18.5	0.0
LTC296	557011	192496	30.8	23.3	23.2	-0.1	20.5	19.5	19.5	0.0
LTC306	564584	178443	31.4	24.0	24.1	0.1	18.3	17.4	17.5	0.1
LTC310	562391	181197	35.6	27.5	27.0	-0.5	21.7	20.8	20.6	-0.2
LTC311	564948	183781	30.3	22.6	22.7	0.1	20.0	18.9	19.0	0.1
LTC312_D	563042	181386	27.2	20.5	21.7	1.2	18.8	17.8	18.4	0.6
LTC313	564616	181676	28.7	21.7	21.5	-0.2	19.0	18.2	18.1	-0.1
LTC314	563526	188306	26.3	19.8	20.0	0.2	19.0	17.9	18.0	0.1
LTC316	567001	169753	22.4	16.6	16.6	0.0	18.7	17.7	17.7	0.0
LTC317	567665	173199	25.9	19.1	19.1	0.0	17.2	16.2	16.3	0.1
LTC318	569129	171877	25.2	19.0	19.1	0.1	17.7	16.8	16.8	0.0
LTC319_D	566154	170274	29.9	22.5	22.5	0.0	20.7	19.6	19.6	0.0
LTC320	567774	172770	26.7	20.3	20.5	0.2	18.3	17.3	17.4	0.1
LTC322	567220	170965	21.3	15.8	15.7	-0.1	17.0	16.0	16.0	0.0
LTC323	566174	170771	35.0	27.5	27.2	-0.3	22.0	21.3	21.3	0.0
LTC325	565382	181812	33.4	25.1	25.2	0.1	20.9	20.0	20.0	0.0
LTC326	565516	180055	25.2	18.5	18.5	0.0	17.9	16.9	16.9	0.0
LTC336	571093	170878	31.7	24.4	24.9	0.5	20.2	19.4	19.5	0.1
LTC337	571304	170708	28.3	21.6	21.9	0.3	19.4	18.5	18.6	0.1



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			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC338	570668	171203	27.4	20.8	20.9	0.1	18.2	17.3	17.4	0.1
LTC348_H	575656	155601	31.3	22.6	22.6	0.0	19.5	18.2	18.2	0.0
LTC368	558555	186997	27.8	20.7	20.6	-0.1	21.0	19.9	19.9	0.0
LTC372_D	563549	180904	35.5	27.5	27.2	-0.3	20.4	19.5	19.6	0.1
LTC373_D	563471	180982	32.0	24.4	24.3	-0.1	20.0	19.1	19.2	0.1
LTC374	563769	180340	30.6	23.1	23.0	-0.1	20.1	19.1	19.1	0.0
LTC375_D	563583	180889	36.3	28.2	27.8	-0.4	20.5	19.5	19.6	0.1
LTC376	563206	181406	28.4	21.6	21.6	0.0	19.0	18.1	18.1	0.0
LTC377	563747	180315	31.1	23.6	23.6	0.0	20.2	19.2	19.2	0.0
LTC378	564180	180656	33.1	25.0	25.0	0.0	20.7	19.8	19.8	0.0
LTC379	563296	181291	26.8	20.1	20.1	0.0	18.7	17.7	17.7	0.0
LTC390_D	558198	185085	29.7	22.3	22.3	0.0	20.3	19.2	19.2	0.0
LTC392	556887	192432	37.0	28.1	28.0	-0.1	21.3	20.1	20.1	0.0
LTC397	560970	172763	36.2	27.7	27.6	-0.1	21.0	20.0	20.0	0.0
LTC398	563419	181233	27.1	20.4	20.3	-0.1	18.7	17.7	17.7	0.0
LTC410	566977	178793	25.1	18.4	18.4	0.0	18.2	17.2	17.2	0.0
LTC413	563756	178670	32.2	24.7	24.7	0.0	20.0	19.2	19.2	0.0
LTC442_F	563337	180578	28.8	21.7	21.6	-0.1	19.7	18.8	18.8	0.0
LTC542	570702	169431	38.4	29.8	29.6	-0.2	20.4	19.2	19.2	0.0
LTC543	570706	169408	<b>42.8</b>	33.5	33.3	-0.2	20.8	19.6	19.5	-0.1
LTC544	570723	169430	35.6	27.4	27.3	-0.1	20.1	18.9	18.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC560_F	563526	178381	35.3	27.7	27.8	0.1	20.4	19.7	19.7	0.0
LTC580	556511	188809	28.4	21.5	21.5	0.0	19.3	18.2	18.2	0.0
LTC589	564201	171209	<b>43.9</b>	34.0	33.8	-0.2	21.6	20.4	20.3	-0.1
LTC591	561192	172784	35.6	27.4	27.4	0.0	21.5	20.5	20.5	0.0
LTC598	562631	172420	32.6	24.8	24.9	0.1	21.1	20.1	20.1	0.0
LTC608	566149	170420	35.4	27.3	27.1	-0.2	21.3	20.2	20.2	0.0
LTC609	566464	173064	36.1	27.6	27.6	0.0	19.5	18.6	18.6	0.0
LTC610	565709	171711	26.7	20.0	19.9	-0.1	18.9	17.8	17.8	0.0
LTC611	566436	173055	34.5	26.1	26.1	0.0	19.2	18.3	18.3	0.0
LTC613	565542	170664	29.9	22.6	22.5	-0.1	20.9	19.9	19.9	0.0
LTC614	565849	171813	28.8	21.7	21.7	0.0	19.2	18.2	18.2	0.0
LTC635	571462	170747	27.7	21.2	21.3	0.1	19.2	18.3	18.3	0.0
LTC640	571315	170575	23.9	17.9	17.9	0.0	18.6	17.6	17.7	0.1
LTC643	570096	185317	28.8	21.9	22.0	0.1	19.0	18.1	18.1	0.0
LTC644	570831	186200	33.2	25.7	25.7	0.0	19.7	18.9	18.9	0.0
LTC657	566216	170381	39.1	30.2	29.8	-0.4	21.6	20.4	20.4	0.0
LTC658	563525	181000	29.8	22.7	22.6	-0.1	19.0	18.0	18.1	0.1
LTC659	563546	180915	34.8	26.8	26.5	-0.3	20.4	19.4	19.5	0.1
LTC660	563598	180904	34.7	26.7	26.4	-0.3	20.3	19.4	19.4	0.0
LTC663	560337	179771	<b>42.0</b>	31.9	31.9	0.0	22.4	21.2	21.2	0.0
LTC665	561030	179206	33.5	24.5	24.5	0.0	19.2	17.9	17.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2029	Con 2029	Change	Base 2016	DM 2029	Con 2029	Change
LTC666_F	563437	180522	29.3	22.1	22.0	-0.1	19.8	18.8	18.9	0.1
LTC668_F	563766	179658	26.3	19.6	19.6	0.0	18.8	17.8	17.8	0.0
LTC685	560945	179240	34.5	25.6	25.6	0.0	21.3	20.1	20.1	0.0
LTC719	567084	172681	25.5	19.1	19.1	0.0	18.0	17.0	17.0	0.0
LTC731	563100	177507	28.7	21.3	21.3	0.0	19.7	18.7	18.7	0.0
LTC732	565284	178513	27.9	20.8	20.8	0.0	18.5	17.4	17.4	0.0
LTC733	565275	178536	27.9	20.8	20.8	0.0	18.5	17.4	17.4	0.0
LTC804	565710	170620	29.9	22.6	22.5	-0.1	21.0	20.0	20.0	0.0
LTC807	570266	185664	31.5	24.4	24.4	0.0	19.4	18.6	18.6	0.0

*Change is Con concentration minus DM concentration*

*Exceedance of annual mean AQS objective highlighted in **Bold***

*Underscore letters denote:*

*D = Demolished receptor (i.e. receptor removed as a result of the Project)*

*F= Future receptor*

*H = Hotel receptor*

**Table 1.6 Modelled Annual Mean NO<sub>2</sub> and PM<sub>10</sub> (µg/m<sup>3</sup>) at Human Receptors in Base 2016, Do-Minimum (DM) 2030 and Construction (Con) 2030 Scenarios**

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC_Con_001	562594	172394	32.3	24.3	24.3	0.0	21.0	20.0	20.0	0.0
LTC_Con_002	565852	171835	29.1	21.7	21.8	0.1	19.3	18.2	18.3	0.1
LTC_Con_003	564529	173148	38.1	28.6	28.6	0.0	20.5	19.5	19.5	0.0
LTC_Con_004	564597	173166	37.8	28.3	28.3	0.0	20.5	19.4	19.4	0.0
LTC_Con_005	566381	173252	32.0	24.2	24.1	-0.1	18.9	18.0	18.0	0.0
LTC_Con_006	566423	173206	32.7	24.7	24.7	0.0	19.0	18.1	18.1	0.0
LTC_Con_007	566988	173065	30.7	22.7	22.7	0.0	18.7	17.7	17.7	0.0
LTC_Con_008	567118	173091	26.9	19.8	19.8	0.0	17.4	16.4	16.4	0.0
LTC_Con_009	567345	173204	26.1	19.2	19.2	0.0	17.3	16.3	16.3	0.0
LTC_Con_010	568257	173172	24.1	17.8	17.8	0.0	16.7	15.8	15.8	0.0
LTC_Con_011	568402	173153	23.8	17.5	17.5	0.0	16.7	15.7	15.7	0.0
LTC_Con_012	569391	171821	23.8	17.7	17.7	0.0	17.4	16.4	16.4	0.0
LTC_Con_013	566862	171792	26.4	18.9	18.8	-0.1	19.0	17.7	17.7	0.0
LTC_Con_014	566019	178644	26.4	19.3	19.3	0.0	18.4	17.4	17.4	0.0
LTC_Con_015	559095	182892	30.2	22.5	22.5	0.0	18.8	17.7	17.7	0.0
LTC_Con_016	559598	184022	24.2	17.8	17.8	0.0	18.5	17.4	17.4	0.0
LTC_Con_017	559470	188460	28.4	21.2	21.2	0.0	20.3	19.2	19.2	0.0
LTC_Con_018	567075	171358	21.3	15.7	15.6	-0.1	17.9	17.0	16.9	-0.1
LTC_Con_019	559448	188795	31.7	23.7	23.7	0.0	20.4	19.3	19.3	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC_Con_020	563904	189357	27.2	20.0	20.0	0.0	18.9	17.9	17.9	0.0
LTC_Con_021	563043	182051	23.3	17.1	17.1	0.0	18.6	17.6	17.6	0.0
LTC_Con_022	563540	181494	26.2	19.5	19.5	0.0	18.6	17.7	17.7	0.0
LTC_Con_023	563402	181407	27.7	20.9	20.8	-0.1	18.9	18.0	18.0	0.0
LTC_Con_024	567319	178961	26.0	18.9	19.0	0.1	18.2	17.1	17.1	0.0
LTC_Con_025	565039	176156	27.7	20.9	20.9	0.0	18.3	17.1	17.1	0.0
LTC_Con_026	564344	175862	37.0	27.7	27.7	0.0	18.2	16.9	16.9	0.0
LTC_Con_027	563909	176124	37.4	28.3	28.4	0.1	18.9	18.5	18.5	0.0
LTC_Con_028	563737	176264	37.7	28.8	28.8	0.0	19.0	18.6	18.6	0.0
LTC_Con_029	563099	177550	28.8	21.1	21.1	0.0	19.7	18.7	18.7	0.0
LTC_Con_030	565998	169664	21.1	15.5	15.6	0.1	17.6	16.6	16.7	0.1
LTC_Con_031	566059	169036	20.6	15.1	15.3	0.2	17.6	16.7	16.7	0.0
LTC_Con_032	566396	168752	19.9	14.6	14.7	0.1	16.1	15.1	15.1	0.0
LTC_Con_033	569498	171741	25.3	18.9	18.9	0.0	17.7	16.8	16.8	0.0
LTC_Con_034	569410	171724	24.2	17.9	18.0	0.1	17.5	16.5	16.5	0.0
LTC_Con_035	568957	171928	23.6	17.4	17.5	0.1	17.6	16.7	16.7	0.0
LTC_Con_036	559672	179653	<b>44.3</b>	33.4	33.4	0.0	22.3	21.2	21.2	0.0
LTC_Con_037	560603	180417	27.8	20.7	20.7	0.0	19.3	18.3	18.3	0.0
LTC_Con_038	557037	191875	31.7	23.8	23.8	0.0	20.7	19.6	19.6	0.0
LTC_Con_039	561411	180593	32.6	24.6	24.5	-0.1	20.4	19.4	19.4	0.0
LTC_Con_040	566775	177620	27.7	20.4	20.4	0.0	18.5	17.5	17.5	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC_Con_041	566711	177660	27.3	20.1	20.1	0.0	18.4	17.4	17.4	0.0
LTC_Con_042_FF	564863	174019	35.8	26.3	26.3	0.0	18.4	16.9	16.9	0.0
LTC_Con_043_FF	564883	174019	36.1	26.5	26.5	0.0	18.4	16.9	16.9	0.0
LTC_Con_044	564526	173148	38.3	28.8	28.8	0.0	20.6	19.5	19.5	0.0
LTC_Con_045	564503	173178	<b>41.8</b>	31.8	31.8	0.0	21.1	20.1	20.1	0.0
LTC_Con_046	561184	157094	18.6	13.6	13.6	0.0	16.9	15.9	15.9	0.0
LTC_Con_047	561200	157095	18.9	13.9	13.9	0.0	17.0	16.0	16.0	0.0
LTC_Con_048_FF	575410	155575	27.4	20.2	20.2	0.0	19.0	17.9	17.9	0.0
LTC_Con_049	556279	190355	23.2	17.1	17.1	0.0	18.6	17.5	17.5	0.0
LTC_Con_050	569439	170319	23.6	17.5	17.5	0.0	16.7	15.7	15.7	0.0
LTC_Con_051	569325	170317	25.9	19.6	19.6	0.0	17.2	16.3	16.3	0.0
LTC_Con_052	556240	190398	23.9	17.7	17.7	0.0	18.7	17.7	17.7	0.0
LTC_Con_053	564572	182200	25.3	18.8	18.7	-0.1	18.2	17.3	17.3	0.0
LTC_Con_054	564545	182218	25.5	18.9	18.8	-0.1	18.2	17.3	17.3	0.0
LTC_Con_055	557977	184918	24.2	17.8	17.8	0.0	17.9	16.8	16.8	0.0
LTC_Con_056	558004	184145	26.4	19.5	19.5	0.0	19.7	18.6	18.6	0.0
LTC_Con_057	558285	183502	27.3	20.2	20.2	0.0	21.0	19.9	19.9	0.0
LTC_Con_058	559068	182869	28.0	20.7	20.7	0.0	18.4	17.3	17.3	0.0
LTC_Con_059	562573	181300	31.1	23.5	23.0	-0.5	21.2	20.3	20.1	-0.2
LTC004	564556	178510	32.9	25.1	25.0	-0.1	18.3	17.4	17.4	0.0
LTC005_D	563565	180885	37.2	28.6	28.1	-0.5	20.6	19.7	19.7	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC010	566046	169567	21.2	15.6	15.7	0.1	17.7	16.7	16.8	0.1
LTC018	558451	185168	35.8	26.8	26.8	0.0	20.9	19.8	19.8	0.0
LTC019	563481	188644	30.6	23.6	23.6	0.0	19.8	18.6	18.6	0.0
LTC023	563212	189307	38.5	28.5	28.5	0.0	19.9	18.6	18.6	0.0
LTC025	563405	189411	39.7	29.1	29.1	0.0	20.2	18.8	18.8	0.0
LTC028_D	563564	180769	36.5	28.1	27.6	-0.5	20.5	19.6	19.7	0.1
LTC033	570820	186331	32.3	24.7	24.7	0.0	19.1	18.1	18.1	0.0
LTC035	559987	179688	<b>44.9</b>	33.7	33.7	0.0	22.4	21.3	21.3	0.0
LTC037	564962	183863	31.6	23.4	23.4	0.0	20.2	19.2	19.2	0.0
LTC039	559264	187097	29.0	21.7	21.7	0.0	19.4	18.3	18.3	0.0
LTC041	566254	181542	35.6	27.0	27.0	0.0	20.6	19.8	19.8	0.0
LTC043	573333	158281	31.9	24.3	24.3	0.0	20.4	19.4	19.4	0.0
LTC046	571962	158659	<b>44.8</b>	35.2	34.8	-0.4	21.9	20.6	20.6	0.0
LTC050	572140	158548	37.5	28.8	28.7	-0.1	21.1	19.9	19.9	0.0
LTC051	560947	179826	<b>42.9</b>	31.7	31.7	0.0	22.2	21.0	21.0	0.0
LTC054	570554	169537	39.4	30.4	30.3	-0.1	20.7	19.6	19.6	0.0
LTC055	555762	173186	<b>43.7</b>	33.8	33.7	-0.1	23.4	22.4	22.4	0.0
LTC061	560903	179864	<b>43.6</b>	31.7	31.7	0.0	22.3	21.0	21.0	0.0
LTC069	564193	180652	34.4	25.9	25.8	-0.1	21.0	20.1	20.1	0.0
LTC072	557372	188786	36.7	27.5	27.5	0.0	20.6	19.3	19.3	0.0
LTC076	568380	169747	29.3	22.0	22.0	0.0	19.0	17.9	17.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC078	561040	180521	32.6	24.7	24.7	0.0	20.3	19.3	19.3	0.0
LTC080	562206	172332	<b>40.7</b>	30.7	30.7	0.0	21.8	20.7	20.7	0.0
LTC081	560297	188782	39.6	29.5	29.5	0.0	20.4	19.0	19.0	0.0
LTC085	564089	186522	23.9	17.5	17.5	0.0	18.9	17.8	17.8	0.0
LTC087	565385	181401	34.6	27.3	26.9	-0.4	20.7	19.9	19.8	-0.1
LTC088	561069	179918	<b>44.2</b>	32.5	32.5	0.0	20.4	19.1	19.1	0.0
LTC089	560899	179228	33.1	24.6	24.6	0.0	21.1	20.0	20.0	0.0
LTC098	555672	174875	<b>42.8</b>	33.1	33.1	0.0	23.3	22.1	22.1	0.0
LTC099	561115	179875	<b>40.6</b>	30.7	30.7	0.0	20.0	18.9	19.0	0.1
LTC103	560028	179870	<b>40.2</b>	30.8	30.8	0.0	21.5	20.6	20.6	0.0
LTC104	557438	188810	37.7	28.4	28.3	-0.1	20.8	19.5	19.5	0.0
LTC109	562370	189131	38.6	28.7	28.7	0.0	20.3	19.0	18.9	-0.1
LTC112_H	556102	175092	<b>41.5</b>	31.5	31.5	0.0	22.3	21.4	21.4	0.0
LTC113	563886	179688	30.2	22.9	22.9	0.0	19.2	18.3	18.3	0.0
LTC117	563405	178118	28.5	21.0	21.0	0.0	19.5	18.5	18.5	0.0
LTC121	563827	179654	28.5	21.4	21.4	0.0	19.0	18.1	18.1	0.0
LTC122	570708	169402	<b>44.6</b>	34.6	34.6	0.0	21.0	19.7	19.7	0.0
LTC126	555667	173214	38.3	29.1	29.1	0.0	22.6	21.6	21.6	0.0
LTC127_D	566299	170338	<b>44.7</b>	34.2	34.3	0.1	22.2	20.9	20.9	0.0
LTC133_D	566158	170293	32.7	24.6	24.7	0.1	21.0	19.9	19.9	0.0
LTC138	559547	179539	<b>41.8</b>	31.9	31.9	0.0	21.8	20.9	20.9	0.0



Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC139_H	557437	179111	37.5	28.9	28.9	0.0	20.6	19.5	19.5	0.0
LTC146_D	563539	180445	31.8	24.2	24.1	-0.1	20.1	19.2	19.3	0.1
LTC147	570857	186482	28.2	21.2	21.2	0.0	18.7	17.8	17.8	0.0
LTC148	563056	177977	33.9	25.5	25.5	0.0	20.6	19.7	19.7	0.0
LTC149	572611	158545	37.5	28.6	28.5	-0.1	21.2	20.0	20.0	0.0
LTC160	569641	159160	30.1	22.8	22.8	0.0	20.0	18.9	18.9	0.0
LTC161	569731	159209	38.6	29.9	29.9	0.0	21.0	19.8	19.8	0.0
LTC170	556961	192282	33.5	25.0	25.0	0.0	20.7	19.5	19.5	0.0
LTC171	569969	185597	27.1	20.2	20.2	0.0	19.2	18.2	18.2	0.0
LTC172	572601	158451	30.4	22.7	22.7	0.0	20.4	19.3	19.3	0.0
LTC177_H	561349	180920	33.7	25.4	25.4	0.0	20.3	19.3	19.3	0.0
LTC178_D	558307	185117	36.9	27.7	27.7	0.0	21.1	19.9	19.9	0.0
LTC181_D	564903	181059	38.4	29.1	34.4	5.3	20.3	19.7	21.9	2.2
LTC182_H	555711	175114	<b>43.8</b>	34.5	34.5	0.0	22.2	21.2	21.2	0.0
LTC183_D	563650	180412	32.6	24.9	24.9	0.0	20.2	19.4	19.5	0.1
LTC184	557113	191984	34.6	26.2	26.2	0.0	21.1	19.9	19.9	0.0
LTC185	566149	170420	35.4	27.0	27.1	0.1	21.3	20.2	20.2	0.0
LTC187	566989	159497	29.4	22.8	22.8	0.0	19.4	18.4	18.4	0.0
LTC188	573237	158000	36.4	27.4	27.4	0.0	21.0	19.9	19.9	0.0
LTC193	558144	183521	30.1	22.3	22.3	0.0	21.3	20.1	20.1	0.0
LTC195_H	567481	169861	34.3	25.9	26.0	0.1	19.9	18.7	18.7	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC198	568816	159489	25.4	19.4	19.4	0.0	19.4	18.6	18.6	0.0
LTC199	560880	180609	30.2	22.8	22.8	0.0	19.5	18.5	18.5	0.0
LTC200	561728	172693	33.3	24.9	24.9	0.0	21.2	20.2	20.2	0.0
LTC205	566700	159328	26.1	19.9	19.9	0.0	19.0	18.0	18.0	0.0
LTC210_H	565459	170651	32.8	24.5	24.5	0.0	21.1	20.1	20.1	0.0
LTC219	571417	170728	28.9	22.0	22.1	0.1	19.5	18.6	18.6	0.0
LTC220_D	563573	180719	32.9	25.0	24.6	-0.4	20.2	19.3	19.3	0.0
LTC222	557710	189948	28.0	20.5	20.5	0.0	20.5	19.4	19.4	0.0
LTC223	555916	172655	32.7	24.3	24.3	0.0	21.5	20.5	20.5	0.0
LTC225	564541	180832	33.7	25.3	25.3	0.0	20.7	19.9	20.0	0.1
LTC226	563551	178567	27.1	20.0	20.0	0.0	19.3	18.4	18.4	0.0
LTC229	555602	172639	32.2	23.9	23.9	0.0	21.4	20.4	20.4	0.0
LTC231	565832	181363	35.9	28.2	28.2	0.0	21.3	20.6	20.6	0.0
LTC239	564625	178310	29.3	21.9	21.9	0.0	17.9	17.0	17.0	0.0
LTC240	570400	159022	38.7	30.0	29.7	-0.3	20.5	19.3	19.3	0.0
LTC247	567142	171222	21.2	15.6	15.5	-0.1	17.9	16.9	16.9	0.0
LTC248	566183	170714	33.8	26.1	26.0	-0.1	21.7	21.0	21.0	0.0
LTC261	563345	181393	27.8	20.9	20.7	-0.2	18.9	18.0	18.0	0.0
LTC262	564034	180560	32.8	24.5	24.6	0.1	20.7	19.8	19.8	0.0
LTC263	567776	172585	21.9	16.0	16.0	0.0	17.4	16.4	16.4	0.0
LTC282	555699	174971	37.8	28.9	28.9	0.0	22.7	21.6	21.5	-0.1

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC289_H	557310	178758	<b>58.4</b>	<b>43.1</b>	<b>43.2</b>	0.1	23.2	21.6	21.6	0.0
LTC293	558900	187348	32.0	23.8	23.8	0.0	20.3	19.1	19.1	0.0
LTC294	557986	188543	34.0	25.4	25.4	0.0	19.8	18.5	18.5	0.0
LTC296	557011	192496	30.8	23.1	23.1	0.0	20.5	19.5	19.5	0.0
LTC306	564584	178443	31.4	23.8	23.8	0.0	18.3	17.5	17.4	-0.1
LTC310	562391	181197	35.6	27.2	26.8	-0.4	21.7	20.8	20.6	-0.2
LTC311	564948	183781	30.3	22.4	22.4	0.0	20.0	18.9	18.9	0.0
LTC312_D	563042	181386	27.2	20.3	21.3	1.0	18.8	17.8	18.3	0.5
LTC313	564616	181676	28.7	21.5	21.3	-0.2	19.0	18.2	18.1	-0.1
LTC314	563526	188306	26.3	19.7	19.7	0.0	19.0	17.9	17.9	0.0
LTC316	567001	169753	22.4	16.5	16.5	0.0	18.7	17.7	17.7	0.0
LTC317	567665	173199	25.9	19.0	19.0	0.0	17.2	16.2	16.2	0.0
LTC318	569129	171877	25.2	18.8	18.9	0.1	17.7	16.8	16.8	0.0
LTC319_D	566154	170274	29.9	22.4	22.5	0.1	20.7	19.6	19.7	0.1
LTC320	567774	172770	26.7	20.1	20.2	0.1	18.3	17.3	17.3	0.0
LTC322	567220	170965	21.3	15.6	15.6	0.0	17.0	16.0	16.0	0.0
LTC323	566174	170771	35.0	27.2	27.0	-0.2	22.0	21.3	21.3	0.0
LTC325	565382	181812	33.4	24.9	24.8	-0.1	20.9	20.0	20.0	0.0
LTC326	565516	180055	25.2	18.4	18.4	0.0	17.9	16.9	16.9	0.0
LTC336	571093	170878	31.7	24.2	24.4	0.2	20.2	19.4	19.5	0.1
LTC337	571304	170708	28.3	21.4	21.6	0.2	19.4	18.5	18.5	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC338	570668	171203	27.4	20.6	20.7	0.1	18.2	17.3	17.3	0.0
LTC348_H	575656	155601	31.3	22.5	22.5	0.0	19.5	18.2	18.2	0.0
LTC368	558555	186997	27.8	20.5	20.5	0.0	21.0	19.9	19.9	0.0
LTC372_D	563549	180904	35.5	27.2	26.7	-0.5	20.4	19.5	19.6	0.1
LTC373_D	563471	180982	32.0	24.2	24.0	-0.2	20.0	19.1	19.2	0.1
LTC374	563769	180340	30.6	22.9	22.8	-0.1	20.1	19.1	19.1	0.0
LTC375_D	563583	180889	36.3	27.8	27.4	-0.4	20.5	19.6	19.6	0.0
LTC376	563206	181406	28.4	21.4	21.3	-0.1	19.0	18.1	18.1	0.0
LTC377	563747	180315	31.1	23.4	23.4	0.0	20.2	19.2	19.2	0.0
LTC378	564180	180656	33.1	24.8	24.8	0.0	20.7	19.8	19.9	0.1
LTC379	563296	181291	26.8	20.0	19.9	-0.1	18.7	17.7	17.7	0.0
LTC390_D	558198	185085	29.7	22.1	22.1	0.0	20.3	19.2	19.2	0.0
LTC392	556887	192432	37.0	27.9	27.9	0.0	21.3	20.1	20.1	0.0
LTC397	560970	172763	36.2	27.4	27.4	0.0	21.0	20.0	20.0	0.0
LTC398	563419	181233	27.1	20.2	20.1	-0.1	18.7	17.7	17.7	0.0
LTC410	566977	178793	25.1	18.2	18.3	0.1	18.2	17.2	17.2	0.0
LTC413	563756	178670	32.2	24.5	24.5	0.0	20.0	19.2	19.2	0.0
LTC442_F	563337	180578	28.8	21.5	21.4	-0.1	19.7	18.8	18.8	0.0
LTC542	570702	169431	38.4	29.5	29.4	-0.1	20.4	19.2	19.2	0.0
LTC543	570706	169408	<b>42.8</b>	33.2	33.1	-0.1	20.8	19.6	19.6	0.0
LTC544	570723	169430	35.6	27.2	27.1	-0.1	20.1	18.9	18.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC560_F	563526	178381	35.3	27.4	27.5	0.1	20.4	19.7	19.7	0.0
LTC580	556511	188809	28.4	21.3	21.3	0.0	19.3	18.2	18.2	0.0
LTC589	564201	171209	<b>43.9</b>	33.6	34.0	0.4	21.6	20.4	20.4	0.0
LTC591	561192	172784	35.6	27.1	27.1	0.0	21.5	20.6	20.5	-0.1
LTC598	562631	172420	32.6	24.6	24.7	0.1	21.1	20.1	20.1	0.0
LTC608	566149	170420	35.4	27.0	27.1	0.1	21.3	20.2	20.2	0.0
LTC609	566464	173064	36.1	27.3	27.2	-0.1	19.5	18.6	18.6	0.0
LTC610	565709	171711	26.7	19.8	19.8	0.0	18.9	17.8	17.8	0.0
LTC611	566436	173055	34.5	25.9	25.8	-0.1	19.2	18.3	18.2	-0.1
LTC613	565542	170664	29.9	22.4	22.4	0.0	20.9	19.9	19.9	0.0
LTC614	565849	171813	28.8	21.5	21.5	0.0	19.2	18.2	18.2	0.0
LTC635	571462	170747	27.7	21.0	21.1	0.1	19.2	18.3	18.3	0.0
LTC640	571315	170575	23.9	17.7	17.8	0.1	18.6	17.7	17.7	0.0
LTC643	570096	185317	28.8	21.7	21.7	0.0	19.0	18.1	18.1	0.0
LTC644	570831	186200	33.2	25.5	25.5	0.0	19.7	18.9	18.9	0.0
LTC657	566216	170381	39.1	29.9	30.0	0.1	21.6	20.4	20.5	0.1
LTC658	563525	181000	29.8	22.5	22.3	-0.2	19.0	18.0	18.1	0.1
LTC659	563546	180915	34.8	26.5	26.1	-0.4	20.4	19.4	19.5	0.1
LTC660	563598	180904	34.7	26.4	26.1	-0.3	20.3	19.4	19.4	0.0
LTC663	560337	179771	<b>42.0</b>	31.6	31.6	0.0	22.4	21.2	21.2	0.0
LTC665	561030	179206	33.5	24.3	24.3	0.0	19.2	17.9	17.9	0.0

Receptor ID	X OS Grid Ref (m)	Y OS Grid Ref (m)	Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )				Annual Mean PM <sub>10</sub> (µg/m <sup>3</sup> )			
			Base 2016	DM 2030	Con 2030	Change	Base 2016	DM 2030	Con 2030	Change
LTC666_F	563437	180522	29.3	21.9	21.8	-0.1	19.8	18.9	18.9	0.0
LTC668_F	563766	179658	26.3	19.4	19.4	0.0	18.8	17.8	17.8	0.0
LTC685	560945	179240	34.5	25.4	25.4	0.0	21.3	20.1	20.1	0.0
LTC719	567084	172681	25.5	19.0	18.9	-0.1	18.0	17.0	17.0	0.0
LTC731	563100	177507	28.7	21.1	21.1	0.0	19.7	18.7	18.7	0.0
LTC732	565284	178513	27.9	20.6	20.6	0.0	18.5	17.4	17.4	0.0
LTC733	565275	178536	27.9	20.6	20.6	0.0	18.5	17.4	17.4	0.0
LTC804	565710	170620	29.9	22.4	22.5	0.1	21.0	20.0	20.0	0.0
LTC807	570266	185664	31.5	24.1	24.2	0.1	19.4	18.6	18.6	0.0

*Change is Con concentration minus DM concentration*

*Exceedance of annual mean AQS objective highlighted in Bold*

*Underscore letters denote:*

*D = Demolished receptor (i.e. receptor removed as a result of the Project)*

*F= Future receptor*

*H = Hotel receptor*

## 2 Nitrogen Deposition in Ecological Designated Sites

**Table 2.1 Modelled Nitrogen (N) Deposition for Ecological Designated Sites in Base 2016, Do-Minimum (DM) 2025 and Construction (Con) 2025 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Hall Farm moat, paddock and St Mary Magdalene Churchyard, North Ockenden SINC	2_LWS_CON	558689	184612	26.94	26.97	0.03	N	20	N/A	N/A	N/A	N/A	N/A
North Ockendon Pit SINC	31_LWS_CON	559025	184266	23.99	24.22	0.23	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_LWS	559200	187078	49.18	47.26	-1.92	Y	20	27.88	26.70	25.94	-0.76	-3.80%
Clay Tye Wood SINC	246_AW_LWS	559508	186949	24.15	24.07	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Franks Wood And Cranham Brickfields SINC	37_LWS_CON	558017	188426	60.44	60.62	0.18	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1495 743 AW	79_AW_LWS	558346	188587	56.14	56.34	0.20	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws And Pasture SINC	3_LWS_CON	557937	186611	24.98	25.67	0.69	Y	10	32.05	31.81	32.31	0.50	5.00%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Thames Chase Forest Centre SINC	519_LWS	558341	185802	32.76	32.76	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	520_LWS	558686	186482	33.71	33.71	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	30a_LWS_CO N	558011	185034	35.35	33.73	-1.62	Y	10	39.18	38.15	37.08	-1.07	-10.70%
Ockendon Railsides SINC	30b_LWS_CO N	558064	185153	27.15	27.10	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Pot Kiln Wood And Sickle Wood SINC	32_LWS_CON	557359	188701	32.22	32.28	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Hillview SINC	4_LWS_CON	557393	188821	61.74	62.03	0.29	N	20	N/A	N/A	N/A	N/A	N/A
Fields south of Cranham Marsh SINC	33_LWS_CON	557882	185038	33.66	33.23	-0.43	Y	10	38.34	37.42	37.12	-0.30	-3.00%
Strawberry Farm Wood SINC	5_LWS_CON	556631	188978	51.60	51.87	0.27	N	10	N/A	N/A	N/A	N/A	N/A
Tylers Common SINC	6_LWS_CON	556257	190381	28.31	28.49	0.18	N	20	N/A	N/A	N/A	N/A	N/A
Upminster Lodge Farm Horse Field SINC	524_LWS	556627	189061	35.34	35.45	0.11	N	20	N/A	N/A	N/A	N/A	N/A
Ingrebourne Valley SINC	512_LWS	556443	192751	67.69	67.58	-0.11	N	10	N/A	N/A	N/A	N/A	N/A



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Hall Lane verge and Montrose pastures SINC	7_LWS_CON	556190	190347	29.27	29.50	0.23	N	20	N/A	N/A	N/A	N/A	N/A
Great Crabbles Wood AW	237_SSSI_AW	570238	169962	26.76	26.77	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Grays Thurrock Chalk Pit SSSI	8_SSSI_CON	560951	179197	41.54	41.52	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Shorne And Ashenbank Woods SSSI	389_SSSI	569319	169607	66.40	66.95	0.55	Y	15	51.90	49.82	50.10	0.28	1.87%
Shorne And Ashenbank Woods SSSI	349_SSSI	567544	169643	26.81	26.92	0.11	N	15	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_RA MSAR	567998	173209	29.89	31.25	1.36	Y	20	17.98	17.85	18.52	0.67	3.35%
Thorndon Park SSSI	342_SSSI_AW_LWS	562979	189489	26.90	26.99	0.09	N	15	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420 010 AW	91_LWS_AW	562782	189264	60.98	62.27	1.29	Y	10	53.03	49.81	50.58	0.77	7.70%
AW_Theme_ID1420 008 AW	84_LWS_AW	563004	189268	49.53	49.70	0.17	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
AW_Theme_ID_148 6820 (A2/M2 ROUNDAABOUT) AW	235_AW	570083	169537	47.97	48.02	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Swanscombe Peninsula SSSI	9_SSSI_CON	561539	172768	44.09	44.05	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_148 6860 (Shorne Woods) AW	233_SSSI_LW S_AW	567893	169720	71.31	71.80	0.49	Y	10	54.90	52.31	52.55	0.24	2.40%
AW_Theme_ID_148 6883 (Object ID 9151) AW	236_AW	570036	169317	30.04	30.05	0.01	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1486 951 AW	1_AW_SSSI_ CON	567429	170972	21.65	21.73	0.08	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487 077 AW	176_AW	566711	159418	48.89	48.95	0.06	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487 079 AW	192_AW	569323	159174	24.78	24.78	0.00	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487 086 AW	179_AW	567925	159727	44.31	44.36	0.05	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487 106 AW	178_AW	567663	159684	48.95	49.01	0.06	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1498 694 AW	182_AW	573609	158289	29.77	29.77	0.00	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1498 708 AW	10_AW_CON	573706	158300	28.92	28.93	0.01	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
CHADWELL WOOD (AW_Theme_ID 1119923) AW	96_AW	563871	179186	34.08	34.24	0.16	N	10	N/A	N/A	N/A	N/A	N/A
Claylane Wood AW	228_AW	566415	170290	54.38	54.55	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Wood AW	78_LWS_AW	558456	188600	52.42	52.62	0.20	N	10	N/A	N/A	N/A	N/A	N/A
HANGMANS WOOD (AW_Theme_ID 1119444) AW	360_LWS_AW	557699	180369	39.47	39.47	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole AW	376_AW	558676	188080	41.67	41.84	0.17	N	10	N/A	N/A	N/A	N/A	N/A
LITTLE RYARSH WOOD (AW_Theme_ID 1487103) AW	177_AW	567399	159542	40.10	40.14	0.04	N	10	N/A	N/A	N/A	N/A	N/A
MILL WOOD (AW_Theme_ID 1119931) AW	105_LWS_AW	563000	189311	62.34	62.50	0.16	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_AW	570636	171201	33.82	33.35	-0.47	Y	10	38.80	37.75	37.41	-0.34	-3.40%
Round Shaw (AW_Theme_ID 1119930) AW	85_LWS_AW	562767	189220	48.50	49.99	1.49	Y	10	46.12	43.92	44.83	0.91	9.10%
Cat's Mede LWS	11_AW_LWS_ CON	560790	180788	35.95	36.04	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	234_AW	568612	169694	75.33	73.86	-1.47	Y	15	56.36	54.21	53.50	-0.71	-4.73%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	30.00	30.75	0.75	Y	15	33.58	33.48	33.91	0.43	2.87%
Shorne/Brewers Woods AW	13_AW_CON	568432	169858	29.41	30.07	0.66	Y	15	33.31	33.18	33.56	0.38	2.53%
Court Wood, Shorne LWS	14_AW_LWS_CON	569557	170503	24.20	24.22	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	83_LWS_AW	560148	188760	62.16	62.10	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood (AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	59.45	60.14	0.69	Y	10	43.53	47.51	47.95	0.44	4.40%
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	29.29	29.00	-0.29	N	10	N/A	N/A	N/A	N/A	N/A
Addington Meadow LWS	37_LWS	565309	159091	20.78	20.78	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	464_LWS	569428	159350	54.66	54.70	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Ebbsfleet Marshes, Northfleet LWS	16_LWS_CON	561714	172689	41.62	41.55	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	359_LWS	560154	188727	62.57	62.60	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole LWS	82_LWS	558664	188077	46.57	46.79	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Thordon Country Park South LWS	320_LWS	561836	189251	25.26	25.41	0.15	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	68.01	68.60	0.59	Y	20	24.63	26.75	26.98	0.23	1.15%
Blackshots Nature Area, Grays LWS	45_LWS_CON	563314	180763	42.63	42.75	0.12	N	20	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_LWS	558074	180050	106.81	111.06	4.25	Y	10	33.36	40.60	42.09	1.49	14.90%
Mar Dyke LWS	317_LWS	558038	180023	90.47	91.25	0.78	Y	10	31.81	35.40	35.68	0.28	2.80%
Mar Dyke LWS	17_LWS_CON	557669	179915	53.81	53.72	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Terrels Heath Grays LWS	383_LWS	563865	179185	32.89	33.04	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Mucking Heath LWS	321_LWS	565312	180179	36.35	34.66	-1.69	Y	10	21.40	21.80	21.19	-0.61	-6.10%
Rainbow Shaw LWS	66_LWS	566223	179828	25.56	25.57	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Sandmartin Cliff, Chafford Hundred LWS	18_LWS_CON	560797	179205	38.06	38.03	-0.03	N	15	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_LWS	558542	188551	54.65	55.00	0.35	Y	10	45.94	45.03	45.23	0.20	2.00%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	75.74	77.68	1.94	Y	15	49.23	55.07	56.23	1.16	7.73%
Little Thurrock reedbeds LWS	19_LWS_CON	563123	177772	34.07	34.26	0.19	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Little Thurrock reedbeds LWS	322_LWS	563247	177930	38.28	38.57	0.29	N	10	N/A	N/A	N/A	N/A	N/A
The Oaks LWS	46_LWS_CON	556447	192934	41.85	41.79	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	20_LWS_CON	557952	180009	46.86	46.95	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	21_LWS_CON	558005	180099	58.53	58.97	0.44	Y	10	43.22	47.06	47.33	0.27	2.70%
Warren Gorge Chafford Hundred LWS	62_LWS	559640	179576	48.60	48.70	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Linford Pit LWS	324_LWS	566483	179828	25.47	25.48	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Low Street Pit LWS	47_LWS_CON	567090	177556	28.36	28.37	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Vange Depot LWS	576_LWS	570694	185907	29.42	29.48	0.06	N	15	N/A	N/A	N/A	N/A	N/A
Parker's Shaw LWS	4_LWS	558204	189416	27.94	27.87	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
All Saints Churchyard and Keepers Cottage Meadow LWS	17_LWS	563416	189417	47.11	47.15	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_LWS_CON	564980	176042	45.05	45.93	0.88	Y	20	20.04	21.52	21.93	0.41	2.05%
Lyttag Brownfield LWS	23_LWS_CON	565619	176322	36.81	37.03	0.22	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Lyttag Brownfield LWS	24_LWS_CON	565399	176330	38.26	38.62	0.36	Y	20	19.88	20.14	20.31	0.17	0.85%
Tilbury Centre LWS	25_LWS_CON	565894	176060	36.23	36.59	0.36	Y	20	19.61	19.33	19.48	0.15	0.75%
South Ockendon Church LWS	26_LWS_CON	559471	182945	32.87	32.69	-0.18	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	31.53	33.83	2.30	Y	20	20.77	20.44	21.47	1.03	5.15%
Greater Thames Marshes NIA	28_NIA_CON	570967	186242	31.64	31.68	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	29_NIA_CON	565198	180007	31.82	30.49	-1.33	Y	20	20.99	20.93	20.31	-0.62	-3.10%
Greater Thames Marshes NIA	268_NIA	563491	178086	34.40	34.19	-0.21	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	377_NIA	567073	177725	26.98	27.00	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	378_NIA	567107	177727	26.96	26.98	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	384_NIA	564609	178142	39.20	36.17	-3.03	Y	20	21.78	22.00	20.61	-1.39	-6.95%
Barrett's Shaw LWS	7_LWS	561989	189096	58.88	60.19	1.31	Y	10	52.47	49.33	50.11	0.78	7.80%
Shorne And Ashenbank Woods SSSI	264_SSSI_LWS	568380	169830	28.75	29.02	0.27	N	15	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	463_LWS	569513	159230	45.28	45.32	0.04	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Ashenbank Woodland LWS	368_LWS	567826	169403	25.93	25.82	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Ashenbank Woodland LWS	369_LWS	567752	169611	28.67	28.79	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Ebbsfleet Marshes, Northfleet LWS	230_LWS	561760	172590	75.48	75.37	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	35_LWS_CON	557535	179858	71.38	70.97	-0.41	Y	10	25.62	27.71	27.57	-0.14	-1.40%
Mar Dyke LWS	36_LWS_CON	557439	179398	40.94	40.83	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_SINC	557926	189444	51.94	51.24	-0.70	Y	10	45.49	44.45	44.10	-0.35	-3.50%
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	37.61	36.96	-0.65	Y	15	23.22	22.72	22.39	-0.33	-2.20%
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	37.86	37.20	-0.66	Y	15	23.49	22.77	22.45	-0.32	-2.13%
Ockendon RAILSIDES SINC	521_LWS	558328	184516	69.27	69.63	0.36	Y	10	54.82	53.03	53.20	0.17	1.70%
Low Well Wood, South Ockendon LWS	318_LWS	557707	179995	54.09	54.06	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Ranscombe Farm Country Park LWS	231_LWS	566345	168800	21.27	21.39	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	25.26	25.97	0.71	Y	10	32.18	31.94	32.45	0.51	5.10%



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Ockendon Railsides SINC	39_LWS_CON	558463	184154	28.78	28.92	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	40_LWS_CON	558293	184600	110.86	111.17	0.31	Y	10	74.57	71.48	71.62	0.14	1.40%
Ockendon Railsides SINC	41_LWS_CON	557906	185489	25.01	25.84	0.83	Y	10	32.49	32.24	32.84	0.60	6.00%
Ockendon Railsides SINC	42_LWS_CON	557901	185496	24.96	25.76	0.80	Y	10	32.46	32.22	32.80	0.58	5.80%
Veteran Tree	598_VT	566518	168700	27.85	27.38	-0.47	Y	10	35.03	34.12	33.78	-0.34	-3.40%
Veteran Tree	432_VT	566508	168750	20.09	20.06	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	800_VT	557898	184890	25.56	25.61	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	410_VT	568198	169490	27.07	27.13	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	27_VT	568148	169440	25.06	25.11	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	802_VT	575429	155503	40.14	40.14	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	718_VT	565428	170694	35.65	35.52	-0.13	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	428_VT	565432	170691	35.76	35.63	-0.13	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	719_VT	565477	170699	34.52	34.64	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	720_VT	565459	170713	34.63	34.91	0.28	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	721_VT	565470	170705	34.51	34.71	0.20	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	723_VT	565681	170658	32.78	32.69	-0.09	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	DS 2025	Change	Perceptible Change		Base 2016	DM 2025	DS 2025	Change	
Veteran Tree	803_VT	575497	155525	70.60	70.59	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	401_VT	569698	169400	29.04	29.08	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	804_VT	567000	173050	34.81	34.95	0.14	N	10	N/A	N/A	N/A	N/A	N/A

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2025)*

*Con = Construction Scenario (2025)*

*Perceptible Change = Change in NOx greater than +/-  $0.3 \mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )*

*The results presented in this table are at worst case receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

**Table 2.2 Modelled Nitrogen (N) Deposition for Ecological Designated Site Transect Points in Base 2016, Do-Minimum (DM) 2025 and Construction (Con) 2025 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	34.11	34.96	0.85	Y	15	36.06	34.13	34.57	0.44	2.93%
Shorne/Brewers Woods AW	12_CON_10m	568447	169846	32.05	32.42	0.37	Y	15	35.19	33.18	33.37	0.19	1.27%
Shorne/Brewers Woods AW	12_CON_20m	568455	169839	31.82	32.05	0.23	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_30m	568462	169832	31.97	32.14	0.17	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_40m	568469	169825	32.24	32.37	0.13	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_50m	568477	169818	32.60	32.71	0.11	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_60m	568484	169811	33.03	33.11	0.08	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_70m	568491	169804	33.51	33.56	0.05	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_80m	568499	169798	34.05	34.07	0.02	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_90m	568506	169791	34.68	34.67	-0.01	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_100m	568513	169784	35.36	35.32	-0.04	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_110m	568521	169777	36.16	36.08	-0.08	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Shorne/Brewers Woods AW	12_CON_120m	568528	169770	37.05	36.95	-0.10	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_130m	568535	169764	38.09	37.95	-0.14	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_140m	568542	169757	39.31	39.12	-0.19	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_150m	568550	169750	40.74	40.50	-0.24	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_160m	568557	169743	42.42	42.15	-0.27	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_170m	568564	169736	44.47	44.13	-0.34	Y	15	41.91	37.98	37.82	-0.16	-1.07%
Shorne/Brewers Woods AW	12_CON_180m	568572	169729	47.06	46.64	-0.42	Y	15	43.24	38.98	38.78	-0.20	-1.33%
Shorne/Brewers Woods AW	12_CON_190m	568579	169723	50.32	49.82	-0.50	Y	15	44.92	40.22	40.00	-0.22	-1.47%
Low Well Wood(AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	77.42	78.33	0.91	Y	10	52.60	49.88	50.34	0.46	4.60%
Low Well Wood(AW_Theme_ID 1505468) AW	15_CON_10m	558023	180101	68.89	69.53	0.64	Y	10	49.55	46.88	47.22	0.34	3.40%
Low Well Wood(AW_Theme_ID 1505468) AW	15_CON_20m	558026	180111	63.07	63.56	0.49	Y	10	47.41	44.81	45.07	0.26	2.60%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_30m	558029	180121	58.98	59.35	0.37	Y	10	45.86	43.33	43.53	0.20	2.00%
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_40m	558032	180130	55.87	56.18	0.31	Y	10	44.67	42.20	42.38	0.18	1.80%
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_50m	558034	180140	53.42	53.68	0.26	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_60m	558037	180149	51.45	51.67	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_70m	558040	180159	49.79	50.00	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_80m	558043	180169	48.43	48.60	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_90m	558045	180178	47.23	47.38	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_100m	558048	180188	46.20	46.34	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_110m	558051	180197	45.30	45.42	0.12	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_120m	558054	180207	44.49	44.61	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_130m	558057	180217	43.78	43.89	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_140m	558059	180226	43.14	43.24	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_150m	558062	180236	42.56	42.65	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_I D 1505468) AW	15_CON_160m	558065	180245	42.03	42.11	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_LWS_CON	564980	176042	38.99	39.75	0.76	Y	20	17.07	21.06	21.47	0.41	2.05%
Tilbury Marshes LWS	22_CON_10m	564986	176034	37.64	38.12	0.48	Y	20	17.07	20.40	20.66	0.26	1.30%
Tilbury Marshes LWS	22_CON_20m	564992	176026	37.02	37.39	0.37	Y	20	17.07	20.11	20.30	0.19	0.95%
Tilbury Marshes LWS	22_CON_30m	564998	176018	36.68	36.98	0.30	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_40m	565004	176010	26.49	26.70	0.21	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_50m	565010	176002	26.37	26.55	0.18	N	20	N/A	N/A	N/A	N/A	N/A

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				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Tilbury Marshes LWS	22_CON_60m	565016	175994	36.84	37.04	0.20	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_70m	565022	175986	36.76	36.94	0.18	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_80m	565028	175978	36.68	36.85	0.17	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_90m	565034	175970	36.64	36.79	0.15	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_100m	565040	175962	36.58	36.73	0.15	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_110m	565046	175954	36.55	36.68	0.13	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_120m	565052	175946	36.51	36.64	0.13	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_130m	565058	175938	36.50	36.62	0.12	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_140m	565064	175930	36.49	36.59	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_150m	565070	175922	36.48	36.58	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_160m	565076	175914	36.48	36.57	0.09	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_170m	565082	175905	36.49	36.59	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_180m	565088	175897	36.53	36.62	0.09	N	20	N/A	N/A	N/A	N/A	N/A

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				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Tilbury Marshes LWS	22_CON_190m	565094	175889	36.67	36.75	0.08	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_CON_200m	565100	175881	37.26	37.32	0.06	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	29.51	31.67	2.16	Y	20	19.69	20.28	21.31	1.03	5.15%
Arisdale Avenue LWS	27_CON_10m	558591	182869	28.56	29.68	1.12	Y	20	19.29	19.83	20.36	0.53	2.65%
Arisdale Avenue LWS	27_CON_20m	558593	182859	28.21	28.96	0.75	Y	20	19.15	19.66	20.02	0.36	1.80%
Arisdale Avenue LWS	27_CON_30m	558594	182849	28.04	28.61	0.57	Y	20	19.08	19.58	19.85	0.27	1.35%
Arisdale Avenue LWS	27_CON_40m	558596	182839	27.93	28.38	0.45	Y	20	19.03	19.53	19.74	0.21	1.05%
Arisdale Avenue LWS	27_CON_50m	558598	182830	27.85	28.23	0.38	Y	20	19.00	19.49	19.67	0.18	0.90%
Arisdale Avenue LWS	27_CON_60m	558599	182820	27.81	28.12	0.31	Y	20	18.98	19.47	19.62	0.15	0.75%
Arisdale Avenue LWS	27_CON_70m	558601	182810	27.77	28.04	0.27	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_80m	558603	182800	27.73	27.97	0.24	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_90m	558604	182790	27.71	27.92	0.21	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_100m	558606	182780	27.69	27.89	0.20	N	20	N/A	N/A	N/A	N/A	N/A



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				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Arisdale Avenue LWS	27_CON_110m	558608	182770	27.66	27.83	0.17	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_120m	558609	182761	27.66	27.82	0.16	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_130m	558611	182751	27.64	27.78	0.14	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_140m	558613	182741	27.63	27.76	0.13	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_150m	558614	182731	27.62	27.74	0.12	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_160m	558616	182721	27.59	27.71	0.12	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_170m	558618	182711	27.58	27.70	0.12	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_180m	558619	182701	27.58	27.67	0.09	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_190m	558621	182691	27.58	27.67	0.09	N	20	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	25.74	26.46	0.72	Y	10	32.79	31.99	32.49	0.50	5.00%
Cranham Hall Shaws and Pasture SINC	3_CON_10m	557927	186610	25.49	25.76	0.27	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_20m	557917	186610	25.41	25.57	0.16	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_30m	557907	186610	25.35	25.46	0.11	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Cranham Hall Shaws and Pasture SINC	3_CON_40m	557897	186610	25.32	25.39	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_50m	557887	186610	25.28	25.34	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_60m	557877	186609	25.24	25.29	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_70m	557867	186609	25.22	25.25	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_80m	557857	186609	25.19	25.21	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_90m	557847	186609	25.16	25.18	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_100m	557837	186609	25.14	25.16	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_110m	557827	186609	25.11	25.12	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_120m	557817	186608	25.09	25.10	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_130m	557807	186608	25.07	25.07	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_140m	557797	186608	25.05	25.05	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_150m	557787	186608	25.02	25.03	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_160m	557777	186608	25.00	25.01	0.01	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Cranham Hall Shaws and Pasture SINC	3_CON_170m	557767	186608	24.98	25.00	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_180m	557757	186607	24.96	24.97	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_190m	557747	186607	24.94	24.94	0.00	N	10	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_ RAMSAR	567998	173209	28.66	29.96	1.30	Y	20	17.31	17.76	18.42	0.66	3.30%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_10m	567998	173219	27.43	28.03	0.60	Y	20	16.94	17.23	17.54	0.31	1.55%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_20m	567999	173229	27.04	27.42	0.38	Y	20	16.82	17.06	17.26	0.20	1.00%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_30m	567999	173239	26.86	27.14	0.28	N	20	N/A	N/A	N/A	N/A	N/A

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				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_40m	567999	173249	26.74	26.96	0.22	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_50m	567999	173259	26.67	26.85	0.18	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_60m	567999	173269	26.62	26.76	0.14	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_70m	567999	173279	26.57	26.70	0.13	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_80m	568000	173289	26.53	26.64	0.11	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_90m	568000	173299	26.50	26.60	0.10	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NO <sub>x</sub> (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_100m	568000	173309	26.48	26.57	0.09	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_110m	568000	173319	23.60	23.67	0.07	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_120m	568000	173329	23.57	23.65	0.08	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_130m	568000	173339	23.56	23.63	0.07	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_140m	568001	173349	23.55	23.60	0.05	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_150m	568001	173359	23.53	23.59	0.06	N	20	N/A	N/A	N/A	N/A	N/A

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				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_160m	568001	173369	23.52	23.57	0.05	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_170m	568001	173379	23.50	23.55	0.05	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_180m	568001	173389	23.50	23.54	0.04	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_190m	568002	173399	23.49	23.53	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_LWS	558074	180050	150.25	156.22	5.97	Y	10	44.63	42.85	44.41	1.56	15.60%
Mar Dyke LWS	316_10m	558078	180059	100.20	102.90	2.70	Y	10	35.13	33.02	33.81	0.79	7.90%
Mar Dyke LWS	316_20m	558081	180069	81.05	82.70	1.65	Y	10	31.12	29.11	29.62	0.51	5.10%
Mar Dyke LWS	316_30m	558084	180078	70.74	71.87	1.13	Y	10	28.85	26.95	27.32	0.37	3.70%
Mar Dyke LWS	316_40m	558087	180088	64.15	65.00	0.85	Y	10	27.36	25.56	25.84	0.28	2.80%
Mar Dyke LWS	316_50m	558090	180097	59.56	60.22	0.66	Y	10	26.29	24.57	24.79	0.22	2.20%
Mar Dyke LWS	316_60m	558093	180106	56.18	56.71	0.53	Y	10	25.49	23.84	24.02	0.18	1.80%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Mar Dyke LWS	316_70m	558097	180116	53.55	53.99	0.44	Y	10	24.85	23.26	23.41	0.15	1.50%
Mar Dyke LWS	316_80m	558100	180125	51.44	51.81	0.37	Y	10	24.35	22.80	22.93	0.13	1.30%
Mar Dyke LWS	316_90m	558103	180135	49.72	50.04	0.32	Y	10	23.92	22.42	22.53	0.11	1.10%
Mar Dyke LWS	316_110m	558109	180154	47.06	47.29	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_120m	558113	180163	46.01	46.21	0.20	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_130m	558116	180173	45.08	45.24	0.16	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_140m	558119	180182	44.25	44.40	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_100m	558106	180144	48.28	48.55	0.27	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	26.07	26.80	0.73	Y	10	32.97	32.13	32.64	0.51	5.10%
Thames Chase Forest Centre SINC	38_CON_10m	557978	186152	25.89	26.23	0.34	Y	10	32.92	32.01	32.25	0.24	2.40%
Thames Chase Forest Centre SINC	38_CON_20m	557988	186152	25.88	26.09	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_30m	557998	186152	25.90	26.05	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_40m	558008	186152	25.18	25.29	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_50m	558018	186152	25.23	25.32	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_60m	558028	186152	25.27	25.34	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_70m	558038	186152	25.31	25.37	0.06	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Thames Chase Forest Centre SINC	38_CON_80m	558048	186152	25.35	25.42	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_90m	558058	186152	25.42	25.47	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_100m	558068	186152	25.48	25.51	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_110m	558078	186152	25.55	25.59	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_120m	558088	186152	25.61	25.64	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_130m	558098	186152	25.67	25.70	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_140m	558108	186152	25.74	25.76	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_150m	558118	186151	25.81	25.83	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_160m	558128	186151	25.89	25.91	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_170m	558138	186151	25.96	25.99	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_180m	558148	186151	26.04	26.06	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_190m	558158	186151	26.12	26.15	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	41_LWS_CON	557906	185489	25.90	26.76	0.86	Y	10	33.34	32.45	33.05	0.60	6.00%



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Ockendon Railsides SINC	41_CON_10m	557916	185487	25.69	26.04	0.35	Y	10	33.29	32.31	32.56	0.25	2.50%
Ockendon Railsides SINC	42_LWS_CON	557901	185496	25.84	26.67	0.83	Y	10	33.31	32.42	33.00	0.58	5.80%
Ockendon Railsides SINC	42_CON_10m	557892	185499	25.49	25.79	0.30	Y	10	33.16	32.21	32.42	0.21	2.10%
Ockendon Railsides SINC	42_CON_20m	557882	185502	25.37	25.54	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	42_CON_30m	557872	185504	25.29	25.41	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	102.58	105.21	2.63	Y	15	61.91	58.31	59.54	1.23	8.20%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_10m	558205	180021	82.36	83.93	1.57	Y	15	54.91	51.50	52.28	0.78	5.20%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_20m	558209	180030	71.26	72.35	1.09	Y	15	50.85	47.65	48.21	0.56	3.73%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_30m	558212	180040	64.35	65.15	0.80	Y	15	48.22	45.21	45.64	0.43	2.87%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_40m	558215	180049	59.57	60.20	0.63	Y	15	46.35	43.50	43.85	0.35	2.33%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_50m	558218	180059	56.04	56.54	0.50	Y	15	44.94	42.23	42.51	0.28	1.87%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_60m	558221	180068	53.31	53.73	0.42	Y	15	43.83	41.24	41.48	0.24	1.60%
Barrett's Shaw LWS	7_LWS	561989	189096	58.88	60.19	1.31	Y	10	52.47	49.33	50.11	0.78	7.80%
Barrett's Shaw LWS	7_10m	561987	189105	47.26	48.26	1.00	Y	10	46.18	43.85	44.47	0.62	6.20%
Barrett's Shaw LWS	7_20m	561985	189115	41.23	42.05	0.82	Y	10	42.86	40.97	41.47	0.50	5.00%
Barrett's Shaw LWS	7_30m	561982	189125	37.58	38.26	0.68	Y	10	40.82	39.20	39.63	0.43	4.30%
Barrett's Shaw LWS	7_40m	561980	189134	35.10	35.68	0.58	Y	10	39.42	38.01	38.38	0.37	3.70%
Barrett's Shaw LWS	7_50m	561977	189144	33.25	33.75	0.50	Y	10	38.39	37.11	37.44	0.33	3.30%
Barrett's Shaw LWS	7_60m	561975	189154	31.84	32.29	0.45	Y	10	37.59	36.43	36.73	0.30	3.00%
Barrett's Shaw LWS	7_70m	561972	189163	30.71	31.12	0.41	Y	10	36.95	35.89	36.15	0.26	2.60%
Barrett's Shaw LWS	7_80m	561970	189173	29.81	30.17	0.36	Y	10	36.42	35.45	35.69	0.24	2.40%
Barrett's Shaw LWS	7_90m	561967	189183	29.05	29.38	0.33	Y	10	35.99	35.09	35.31	0.22	2.20%
Barrett's Shaw LWS	7_100m	561965	189193	28.41	28.71	0.30	Y	10	35.62	34.78	34.98	0.20	2.00%
Barrett's Shaw LWS	7_110m	561963	189202	27.84	28.12	0.28	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Barrett's Shaw LWS	7_120m	561960	189212	27.37	27.62	0.25	N	10	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_130m	561958	189222	26.94	27.17	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_140m	561955	189231	26.58	26.79	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_150m	561953	189241	26.25	26.44	0.19	N	10	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_160m	561950	189251	25.94	26.13	0.19	N	10	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_170m	561948	189260	25.68	25.85	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_LWS_AW	562767	189220	48.50	49.99	1.49	Y	10	46.12	43.92	44.83	0.91	9.10%
Round Shaw(AW_Theme_ID 1119930) AW	85_10m	562767	189210	40.40	41.32	0.92	Y	10	41.73	40.06	40.64	0.58	5.80%
Round Shaw(AW_Theme_ID 1119930) AW	85_20m	562768	189200	36.22	36.88	0.66	Y	10	39.42	38.05	38.47	0.42	4.20%
Round Shaw(AW_Theme_ID 1119930) AW	85_30m	562769	189190	33.63	34.13	0.50	Y	10	37.96	36.80	37.13	0.33	3.30%
Round Shaw(AW_Theme_ID 1119930) AW	85_40m	562769	189180	31.84	32.25	0.41	Y	10	36.95	35.94	36.20	0.26	2.60%
Round Shaw(AW_Theme_ID 1119930) AW	85_50m	562770	189170	30.53	30.88	0.35	Y	10	36.21	35.31	35.54	0.23	2.30%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Round Shaw(AW_Theme_ID 1119930) AW	85_60m	562770	189160	29.52	29.80	0.28	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_70m	562771	189150	28.73	28.98	0.25	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_80m	562771	189140	28.07	28.30	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_90m	562772	189130	27.54	27.73	0.19	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_100m	562772	189120	27.09	27.27	0.18	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_110m	562773	189110	26.69	26.86	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_120m	562774	189100	26.36	26.50	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_130m	562774	189090	26.07	26.19	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_140m	562775	189080	25.81	25.94	0.13	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
Round Shaw(AW_Theme_ID 1119930) AW	85_150m	562775	189070	25.59	25.70	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_160m	562776	189060	25.39	25.48	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_170m	562776	189050	25.20	25.29	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw(AW_Theme_ID 1119930) AW	85_180m	562777	189040	25.04	25.12	0.08	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420 010 AW	91_LWS_AW	562782	189264	60.98	62.27	1.29	Y	10	53.03	49.81	50.58	0.77	7.70%
AW_Theme_ID1420 010 AW	91_10m	562779	189274	48.87	49.85	0.98	Y	10	46.49	44.12	44.72	0.60	6.00%
AW_Theme_ID1420 010 AW	91_20m	562777	189284	42.72	43.50	0.78	Y	10	43.09	41.19	41.66	0.47	4.70%
AW_Theme_ID1420 010 AW	91_30m	562775	189293	38.99	39.65	0.66	Y	10	41.02	39.40	39.80	0.40	4.00%
AW_Theme_ID1420 010 AW	91_40m	562772	189303	36.47	37.02	0.55	Y	10	39.61	38.17	38.52	0.35	3.50%
AW_Theme_ID1420 010 AW	91_50m	562770	189313	34.63	35.11	0.48	Y	10	38.56	37.28	37.59	0.31	3.10%
AW_Theme_ID1420 010 AW	91_60m	562767	189322	33.19	33.63	0.44	Y	10	37.75	36.59	36.87	0.28	2.80%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2025	Con 2025	Change	Perceptible Change		Base 2016	DM 2025	Con 2025	Change	
AW_Theme_ID1420 010 AW	91_70m	562765	189332	32.06	32.44	0.38	Y	10	37.11	36.04	36.29	0.25	2.50%
AW_Theme_ID1420 010 AW	91_80m	562762	189342	31.15	31.48	0.33	Y	10	36.59	35.61	35.83	0.22	2.20%
AW_Theme_ID1420 010 AW	91_90m	562760	189351	30.39	30.70	0.31	Y	10	36.15	35.24	35.44	0.20	2.00%
AW_Theme_ID1420 010 AW	91_100m	562757	189361	29.71	30.00	0.29	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420 010 AW	91_110m	562755	189371	29.16	29.42	0.26	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420 010 AW	91_120m	562752	189381	28.67	28.91	0.24	N	10	N/A	N/A	N/A	N/A	N/A

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2025)*

*Con = Construction Scenario (2025)*

*Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )*

*The results presented in this table are at transect receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

**Table 2.3 Modelled Nitrogen (N) Deposition for Ecological Designated Sites in Base 2016, Do-Minimum (DM) 2026 and Construction (Con) 2026 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Hall Farm moat, paddock and St Mary Magdalene Churchyard, North Ockenden SINC	2_LWS_CON	558689	184612	26.21	26.20	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
North Ockendon Pit SINC	31_LWS_CON	559025	184266	23.34	23.42	0.08	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_LWS	559200	187078	47.78	48.24	0.46	Y	20	27.88	26.67	26.83	0.16	0.80%
Clay Tye Wood SINC	246_AW_LWS	559508	186949	23.49	23.38	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Franks Wood and Cranham Brickfields SINC	37_LWS_CON	558017	188426	58.74	57.40	-1.34	Y	10	48.41	48.39	47.71	-0.68	-6.80%
AW_Theme_ID14 95743 AW	79_AW_LWS	558346	188587	54.57	53.05	-1.52	Y	10	46.24	46.08	45.31	-0.77	-7.70%
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	24.29	26.48	2.19	Y	10	32.05	31.76	33.47	1.71	17.10%
Thames Chase Forest Centre SINC	519_LWS	558341	185802	31.85	31.52	-0.33	Y	10	37.35	36.19	35.94	-0.25	-2.50%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Thames Chase Forest Centre SINC	520_LWS	558686	186482	32.79	32.30	-0.49	Y	10	36.54	35.87	35.60	-0.27	-2.70%
Ockendon Railsides SINC	30a_LWS_CON	558011	185034	34.30	30.85	-3.45	Y	10	39.18	38.05	35.62	-2.43	-24.30%
Ockendon Railsides SINC	30b_LWS_CON	558064	185153	26.40	26.17	-0.23	N	10	N/A	N/A	N/A	N/A	N/A
Pot Kiln Wood and Sickle Wood SINC	32_LWS_CON	557359	188701	31.34	31.10	-0.24	N	10	N/A	N/A	N/A	N/A	N/A
Hillview SINC	4_LWS_CON	557393	188821	60.03	59.05	-0.98	Y	20	28.71	28.14	27.83	-0.31	-1.55%
Fields south of Cranham Marsh SINC	33_LWS_CON	557882	185038	32.71	32.83	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Strawberry Farm Wood SINC	5_LWS_CON	556631	188978	50.16	49.54	-0.62	Y	10	45.24	44.32	43.99	-0.33	-3.30%
Tylers Common SINC	6_LWS_CON	556257	190381	27.51	27.97	0.46	Y	20	21.15	20.85	21.07	0.22	1.10%
Upminster Lodge Farm Horse Field SINC	524_LWS	556627	189061	34.37	34.10	-0.27	N	20	N/A	N/A	N/A	N/A	N/A
Ingrebourne Valley SINC	512_LWS	556443	192751	65.87	65.81	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Hall Lane verge and Montrose pastures SINC	7_LWS_CON	556190	190347	28.44	29.04	0.60	Y	20	21.57	21.26	21.55	0.29	1.45%



Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Great Crabbles Wood AW	237_SSSI_AW	570238	169962	25.98	25.99	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Grays Thurrock Chalk Pit SSSI	8_SSSI_CON	560951	179197	40.40	40.44	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_SSSI	569319	169607	64.44	64.75	0.31	Y	15	51.90	49.56	50.19	0.63	4.20%
Shorne and Ashenbank Woods SSSI	349_SSSI	567544	169643	26.04	26.08	0.04	N	15	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_RAM S AR	567998	173209	29.04	30.40	1.36	Y	20	17.98	17.79	18.20	0.41	2.05%
Thorndon Park SSSI	342_SSSI_AW_ LWS	562979	189489	26.17	26.12	-0.05	N	15	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 20010 AW	91_LWS_AW	562782	189264	59.31	58.84	-0.47	Y	10	53.03	49.65	49.41	-0.24	-2.40%
AW_Theme_ID14 20008 AW	84_LWS_AW	563004	189268	48.16	47.79	-0.37	Y	10	46.04	44.28	44.08	-0.20	-2.00%
AW_Theme_ID_14 86820 (A2/M2 ROUNDAABOUT) AW	235_AW	570083	169537	46.56	46.56	0.00	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Swanscombe Peninsula SSSI	9_SSSI_CON	561539	172768	42.75	42.71	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1 486860 (Shorne Woods) AW	233_SSSI_LWS_AW	567893	169720	69.24	69.50	0.26	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1 486883 (Object ID 9151) AW	236_AW	570036	169317	29.16	29.18	0.02	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 86951 AW	1_AW_SSSI_CON	567429	170972	21.06	21.08	0.02	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 87077 AW	176_AW	566711	159418	47.35	47.48	0.13	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 87079 AW	192_AW	569323	159174	24.07	24.08	0.01	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 87086 AW	179_AW	567925	159727	42.91	43.01	0.10	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 87106 AW	178_AW	567663	159684	47.40	47.52	0.12	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 98694 AW	182_AW	573609	158289	28.90	28.93	0.03	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14 98708 AW	10_AW_CON	573706	158300	28.06	28.09	0.03	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
CHADWELL WOOD (AW_Theme_ID 1119923) AW	96_AW	563871	179186	33.01	32.98	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Claylane Wood AW	228_AW	566415	170290	52.76	52.91	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Wood AW	78_LWS_AW	558456	188600	50.95	49.65	-1.30	Y	10	44.94	43.89	43.27	-0.62	-6.20%
HANGMANS WOOD (AW_Theme_ID 1119444) AW	360_LWS_AW	557699	180369	38.26	37.97	-0.29	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole AW	376_AW	558676	188080	40.48	40.07	-0.41	Y	10	39.65	39.06	38.92	-0.14	-1.40%
LITTLE RYARSH WOOD (AW_Theme_ID 1487103) AW	177_AW	567399	159542	38.82	38.91	0.09	N	10	N/A	N/A	N/A	N/A	N/A
MILL WOOD (AW_Theme_ID 1119931) AW	105_LWS_AW	563000	189311	60.63	60.17	-0.46	Y	10	53.23	50.42	50.20	-0.22	-2.20%
Peartree Wood AW	262_AW	570636	171201	32.82	32.26	-0.56	Y	10	38.80	37.53	36.92	-0.61	-6.10%
Round Shaw (AW_Theme_ID 1119930) AW	85_LWS_AW	562767	189220	47.16	46.78	-0.38	Y	10	46.12	43.79	43.59	-0.20	-2.00%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Cat's Mede LWS	11_AW_LWS_CON	560790	180788	34.86	35.38	0.52	Y	10	38.09	37.64	37.99	0.35	3.50%
Shorne/Brewers Woods AW	234_AW	568612	169694	73.12	71.67	-1.45	Y	15	56.36	53.90	52.99	-0.91	-6.07%
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	29.08	29.97	0.89	Y	15	33.58	33.40	34.05	0.65	4.33%
Shorne/Brewers Woods AW	13_AW_CON	568432	169858	28.51	29.29	0.78	Y	15	33.31	33.10	33.66	0.56	3.73%
Court Wood, Shorne LWS	14_AW_LWS_CON	569557	170503	23.52	23.52	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	83_LWS_AW	560148	188760	60.48	59.78	-0.70	Y	10	53.94	50.24	49.90	-0.34	-3.40%
Low Well Wood (AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	57.45	58.07	0.62	Y	10	43.53	47.28	47.69	0.41	4.10%
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	28.42	28.07	-0.35	Y	10	35.73	34.90	34.49	-0.41	-4.10%
Addington Meadow LWS	37_LWS	565309	159091	20.18	20.19	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	464_LWS	569428	159350	53.06	53.17	0.11	N	20	N/A	N/A	N/A	N/A	N/A
Ebbsfleet Marshes, Northfleet LWS	16_LWS_CON	561714	172689	40.41	40.39	-0.02	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Warley Hall Wood LWS	359_LWS	560154	188727	60.86	60.11	-0.75	Y	10	54.04	50.38	49.99	-0.39	-3.90%
Hobbs Hole LWS	82_LWS	558664	188077	45.23	44.50	-0.73	Y	10	41.96	41.30	41.02	-0.28	-2.80%
Thordon Country Park South LWS	320_LWS	561836	189251	24.57	24.54	-0.03	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	65.69	67.38	1.69	Y	20	24.63	26.60	27.25	0.65	3.25%
Blackshots Nature Area, Grays LWS	45_LWS_CON	563314	180763	41.26	41.94	0.68	Y	20	23.32	23.09	23.36	0.27	1.35%
Mar Dyke LWS	316_LWS	558074	180050	103.43	107.56	4.13	Y	10	33.36	40.38	41.86	1.48	14.80%
Mar Dyke LWS	317_LWS	558038	180023	87.31	90.46	3.15	Y	10	31.81	35.19	36.31	1.12	11.20%
Mar Dyke LWS	17_LWS_CON	557669	179915	51.96	51.58	-0.38	Y	10	21.38	22.45	22.31	-0.14	-1.40%
Terrels Heath Grays LWS	383_LWS	563865	179185	31.87	31.86	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Mucking Heath LWS	321_LWS	565312	180179	35.23	35.89	0.66	Y	10	21.40	21.77	22.05	0.28	2.80%
Rainbow Shaw LWS	66_LWS	566223	179828	24.87	24.88	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Sandmartin Cliff, Chafford Hundred LWS	18_LWS_CON	560797	179205	36.96	36.96	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_LWS	558542	188551	53.15	52.82	-0.33	Y	10	45.94	45.04	44.97	-0.07	-0.70%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	73.23	75.44	2.21	Y	15	49.23	54.77	56.12	1.35	9.00%
Little Thurrock reedbeds LWS	19_LWS_CON	563123	177772	33.10	33.17	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Little Thurrock reedbeds LWS	322_LWS	563247	177930	37.12	37.23	0.11	N	10	N/A	N/A	N/A	N/A	N/A
The Oaks LWS	46_LWS_CON	556447	192934	40.66	40.57	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	20_LWS_CON	557952	180009	45.29	45.46	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	21_LWS_CON	558005	180099	56.55	56.78	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Warren Gorge Chafford Hundred LWS	62_LWS	559640	179576	47.15	47.45	0.30	Y	10	39.17	37.87	38.07	0.20	2.00%
Linford Pit LWS	324_LWS	566483	179828	24.78	24.79	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Low Street Pit LWS	47_LWS_CON	567090	177556	27.58	27.70	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Vange Depot LWS	576_LWS	570694	185907	28.59	28.66	0.07	N	15	N/A	N/A	N/A	N/A	N/A
Parker's Shaw LWS	4_LWS	558204	189416	27.19	26.90	-0.29	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
All Saints Churchyard and Keepers Cottage Meadow LWS	17_LWS	563416	189417	45.89	45.97	0.08	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_LWS_CON	564980	176042	43.36	43.89	0.53	Y	20	20.04	21.34	21.58	0.24	1.20%
Lyttag Brownfield LWS	23_LWS_CON	565619	176322	35.73	35.94	0.21	N	20	N/A	N/A	N/A	N/A	N/A
Lyttag Brownfield LWS	24_LWS_CON	565399	176330	37.03	37.19	0.16	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Centre LWS	25_LWS_CON	565894	176060	35.19	35.81	0.62	Y	20	19.61	19.25	19.51	0.26	1.30%
South Ockendon Church LWS	26_LWS_CON	559471	182945	31.94	32.04	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	30.63	32.06	1.43	Y	20	20.77	20.38	21.06	0.68	3.40%
Greater Thames Marshes NIA	28_NIA_CON	570967	186242	30.71	30.78	0.07	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	29_NIA_CON	565198	180007	30.87	31.13	0.26	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	268_NIA	563491	178086	33.38	33.80	0.42	Y	20	20.01	19.91	20.11	0.20	1.00%
Greater Thames Marshes NIA	377_NIA	567073	177725	26.25	26.29	0.04	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Greater Thames Marshes NIA	378_NIA	567107	177727	26.24	26.27	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	384_NIA	564609	178142	37.96	38.30	0.34	Y	20	21.78	21.87	22.03	0.16	0.80%
Barrett's Shaw LWS	7_LWS	561989	189096	57.27	56.84	-0.43	Y	10	52.47	49.17	48.97	-0.20	-2.00%
Shorne and Ashenbank Woods SSSI	264_SSSI_LWS	568380	169830	27.91	28.10	0.19	N	15	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	463_LWS	569513	159230	43.90	43.99	0.09	N	20	N/A	N/A	N/A	N/A	N/A
Ashenbank Woodland LWS	368_LWS	567826	169403	25.17	25.06	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Ashenbank Woodland LWS	369_LWS	567752	169611	27.84	27.88	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Ebbsfleet Marshes, Northfleet LWS	230_LWS	561760	172590	73.37	73.34	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	35_LWS_CON	557535	179858	69.09	68.27	-0.82	Y	10	25.62	27.45	27.17	-0.28	-2.80%
Mar Dyke LWS	36_LWS_CON	557439	179398	39.66	39.34	-0.32	Y	10	18.62	18.99	18.86	-0.13	-1.30%
Folkes Lane Woodland	609a_SINC	557926	189444	50.51	48.87	-1.64	Y	10	45.49	44.37	43.58	-0.79	-7.90%



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	36.43	34.22	-2.21	Y	15	23.22	22.54	19.55	-2.99	-19.93%
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	36.68	34.46	-2.22	Y	15	23.49	22.60	19.57	-3.03	-20.20%
Ockendon Railsides SINC	521_LWS	558328	184516	67.39	66.19	-1.20	Y	10	54.82	52.92	52.36	-0.56	-5.60%
Low Well Wood, South Ockendon LWS	318_LWS	557707	179995	52.24	51.83	-0.41	Y	10	37.41	39.26	39.02	-0.24	-2.40%
Ranscombe Farm Country Park LWS	231_LWS	566345	168800	20.69	20.77	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	24.57	26.72	2.15	Y	10	32.18	31.89	33.56	1.67	16.70%
Ockendon Railsides SINC	39_LWS_CON	558463	184154	27.99	27.89	-0.10	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	40_LWS_CON	558293	184600	107.96	110.02	2.06	Y	10	74.57	71.38	72.77	1.39	13.90%
Ockendon Railsides SINC	41_LWS_CON	557906	185489	24.32	26.93	2.61	Y	10	32.49	32.18	34.19	2.01	20.10%
Ockendon Railsides SINC	42_LWS_CON	557901	185496	24.27	26.75	2.48	Y	10	32.46	32.17	34.08	1.91	19.10%
Veteran Tree	598_VT	566518	168700	27.05	26.75	-0.30	Y	10	35.03	33.97	33.72	-0.25	-2.50%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Veteran Tree	432_VT	566508	168750	19.54	19.53	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	800_VT	557898	184890	24.86	24.81	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	410_VT	568198	169490	26.28	26.29	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	27_VT	568148	169440	24.33	24.35	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	802_VT	575429	155503	38.85	38.99	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	718_VT	565428	170694	34.63	34.67	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	428_VT	565432	170691	34.74	34.78	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	719_VT	565477	170699	33.51	33.63	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	720_VT	565459	170713	33.60	33.79	0.19	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	721_VT	565470	170705	33.50	33.64	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	723_VT	565681	170658	31.82	31.92	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	803_VT	575497	155525	67.33	68.63	1.30	Y	10	66.39	58.89	59.84	0.95	9.50%
Veteran Tree	401_VT	569698	169400	28.22	28.24	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	804_VT	567000	173050	33.78	34.21	0.43	Y	10	34.10	33.49	33.76	0.27	2.70%

Base = Base Year Scenario (2016)

DM = Do-Minimum Scenario (2026)

Con = Construction Scenario (2026)

Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).

LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )

The results presented in this table are at worst case receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.

**Table 2.4 Modelled Nitrogen (N) Deposition for Ecological Designated Site Transect Points in Base 2016, Do-Minimum (DM) 2026 and Construction (Con) 2026 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	29.08	29.97	0.89	Y	15	33.58	33.40	34.05	0.65	4.33%
Shorne/Brewers Woods AW	12_CON_10m	568447	169846	27.55	27.87	0.32	Y	15	32.94	32.52	32.80	0.28	1.87%
Shorne/Brewers Woods AW	12_CON_20m	568455	169839	27.35	27.53	0.18	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_30m	568462	169832	27.46	27.56	0.10	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_40m	568469	169825	27.64	27.71	0.07	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_50m	568477	169818	27.90	27.94	0.04	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_60m	568484	169811	28.22	28.22	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_70m	568491	169804	28.58	28.55	-0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_80m	568499	169798	28.98	28.92	-0.06	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_90m	568506	169791	29.43	29.36	-0.07	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_100m	568513	169784	29.93	29.83	-0.10	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Shorne/Brewers Woods AW	12_CON_110m	568521	169777	30.51	30.40	-0.11	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_120m	568528	169770	31.15	31.03	-0.12	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_130m	568535	169764	31.91	31.76	-0.15	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_140m	568542	169757	32.79	32.61	-0.18	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_150m	568550	169750	33.83	33.62	-0.21	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_160m	568557	169743	35.06	34.80	-0.26	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_170m	568564	169736	36.55	36.26	-0.29	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	12_CON_180m	568572	169729	38.42	38.08	-0.34	Y	15	38.86	37.73	37.55	-0.18	-1.20%
Shorne/Brewers Woods AW	12_CON_190m	568579	169723	40.79	40.39	-0.40	Y	15	40.11	38.87	38.64	-0.23	-1.53%
Shorne/Brewers Woods AW	13_AW_CON	568432	169858	28.51	29.29	0.78	Y	15	33.31	33.10	33.66	0.56	3.73%
Shorne/Brewers Woods AW	13_CON_10m	568425	169865	26.84	27.17	0.33	Y	15	32.55	32.18	32.44	0.26	1.73%
Shorne/Brewers Woods AW	13_CON_20m	568417	169872	26.13	26.32	0.19	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Shorne/Brewers Woods AW	13_CON_30m	568410	169878	25.68	25.81	0.13	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_40m	568403	169885	25.34	25.43	0.09	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_50m	568395	169892	25.07	25.13	0.06	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_60m	568388	169899	24.83	24.87	0.04	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_70m	568381	169906	24.62	24.66	0.04	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_80m	568373	169912	24.43	24.46	0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_90m	568366	169919	24.26	24.29	0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_100m	568359	169926	24.10	24.11	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_110m	568351	169933	23.95	23.97	0.02	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_120m	568344	169940	23.80	23.83	0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_130m	568337	169946	23.68	23.69	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_140m	568329	169953	23.54	23.55	0.01	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Shorne/Brewers Woods AW	13_CON_150m	568322	169960	23.44	23.45	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_160m	568315	169967	23.32	23.34	0.02	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_170m	568307	169974	23.22	23.22	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_180m	568300	169981	23.12	23.13	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_CON_190m	568293	169987	23.02	23.03	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	57.45	58.07	0.62	Y	10	43.53	47.28	47.69	0.41	4.10%
Low Well Wood(AW_Theme_ID 1505468) AW	15_CON_10m	558023	180101	52.02	52.44	0.42	Y	10	41.69	44.63	44.92	0.29	2.90%
Low Well Wood(AW_Theme_ID 1505468) AW	15_CON_20m	558026	180111	48.31	48.63	0.32	Y	10	40.40	42.80	43.02	0.22	2.20%
Low Well Wood(AW_Theme_ID 1505468) AW	15_CON_30m	558029	180121	45.68	45.91	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme_ID 1505468) AW	15_CON_40m	558032	180130	43.69	43.88	0.19	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_50m	558034	180140	42.13	42.27	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_60m	558037	180149	40.85	40.97	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_70m	558040	180159	39.80	39.90	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_80m	558043	180169	38.90	38.98	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_90m	558045	180178	38.15	38.20	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_100m	558048	180188	37.48	37.52	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_110m	558051	180197	36.90	36.94	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_120m	558054	180207	36.38	36.41	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_130m	558057	180217	35.92	35.94	0.02	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_140m	558059	180226	35.51	35.52	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_150m	558062	180236	35.13	35.14	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood(AW_Theme _ID 1505468) AW	15_CON_160m	558065	180245	34.79	34.79	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	30.63	32.06	1.43	Y	20	20.77	20.38	21.06	0.68	3.40%
Arisdale Avenue LWS	27_CON_10m	558591	182869	29.50	30.18	0.68	Y	20	20.26	19.92	20.24	0.32	1.60%
Arisdale Avenue LWS	27_CON_20m	558593	182859	29.10	29.52	0.42	Y	20	20.08	19.75	19.95	0.20	1.00%
Arisdale Avenue LWS	27_CON_30m	558594	182849	28.88	29.18	0.30	Y	20	19.98	19.66	19.80	0.14	0.70%
Arisdale Avenue LWS	27_CON_40m	558596	182839	28.76	28.98	0.22	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_50m	558598	182830	28.67	28.84	0.17	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_60m	558599	182820	28.60	28.74	0.14	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_70m	558601	182810	28.55	28.67	0.12	N	20	N/A	N/A	N/A	N/A	N/A



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				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Arisdale Avenue LWS	27_CON_80m	558603	182800	28.52	28.60	0.08	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_90m	558604	182790	28.49	28.55	0.06	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_100m	558606	182780	28.45	28.50	0.05	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_110m	558608	182770	28.44	28.48	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_120m	558609	182761	28.41	28.45	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_130m	558611	182751	28.39	28.42	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_140m	558613	182741	28.38	28.39	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_150m	558614	182731	28.35	28.36	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_160m	558616	182721	28.35	28.35	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_170m	558618	182711	28.34	28.34	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_180m	558619	182701	28.33	28.33	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_190m	558621	182691	28.31	28.30	-0.01	N	20	N/A	N/A	N/A	N/A	N/A

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				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	24.29	26.48	2.19	Y	10	32.05	31.76	33.47	1.71	17.10%
Cranham Hall Shaws and Pasture SINC	3_CON_10m	557927	186610	24.07	24.90	0.83	Y	10	31.96	31.61	32.26	0.65	6.50%
Cranham Hall Shaws and Pasture SINC	3_CON_20m	557917	186610	24.00	24.50	0.50	Y	10	31.93	31.56	31.95	0.39	3.90%
Cranham Hall Shaws and Pasture SINC	3_CON_30m	557907	186610	23.95	24.29	0.34	Y	10	31.91	31.54	31.80	0.26	2.60%
Cranham Hall Shaws and Pasture SINC	3_CON_40m	557897	186610	23.91	24.17	0.26	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_50m	557887	186610	23.90	24.10	0.20	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_60m	557877	186609	23.86	24.03	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_70m	557867	186609	23.84	23.97	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_80m	557857	186609	23.82	23.93	0.11	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Cranham Hall Shaws and Pasture SINC	3_CON_90m	557847	186609	23.80	23.90	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_100m	557837	186609	23.76	23.86	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_110m	557827	186609	23.74	23.81	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_120m	557817	186608	23.72	23.79	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_130m	557807	186608	23.71	23.77	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_140m	557797	186608	23.69	23.74	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_150m	557787	186608	23.68	23.72	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_160m	557777	186608	23.66	23.70	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_170m	557767	186608	23.64	23.67	0.03	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Cranham Hall Shaws and Pasture SINC	3_CON_180m	557757	186607	23.62	23.65	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_190m	557747	186607	23.61	23.63	0.02	N	10	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_ RAMSAR	567998	173209	29.04	30.40	1.36	Y	20	17.98	17.79	18.20	0.41	2.05%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_10m	567998	173219	27.61	28.23	0.62	Y	20	17.48	17.26	17.44	0.18	0.90%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_20m	567999	173229	27.18	27.57	0.39	Y	20	17.32	17.09	17.20	0.11	0.55%

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				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_30m	567999	173239	26.96	27.24	0.28	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_40m	567999	173249	26.83	27.06	0.23	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_50m	567999	173259	26.75	26.93	0.18	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_60m	567999	173269	26.67	26.82	0.15	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_70m	567999	173279	26.62	26.75	0.13	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_80m	568000	173289	26.58	26.70	0.12	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_90m	568000	173299	26.55	26.66	0.11	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_100m	568000	173309	26.53	26.62	0.09	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_110m	568000	173319	23.72	23.80	0.08	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_120m	568000	173329	23.70	23.78	0.08	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_130m	568000	173339	23.67	23.75	0.08	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_140m	568001	173349	23.66	23.72	0.06	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_150m	568001	173359	23.63	23.70	0.07	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_160m	568001	173369	23.62	23.69	0.07	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_170m	568001	173379	23.61	23.66	0.05	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_180m	568001	173389	23.60	23.64	0.04	N	20	N/A	N/A	N/A	N/A	N/A



Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_190m	568002	173399	23.58	23.63	0.05	N	20	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_LWS	558074	180050	103.43	107.56	4.13	Y	10	33.36	40.38	41.86	1.48	14.80%
Mar Dyke LWS	316_10m	558078	180059	71.86	73.99	2.13	Y	10	27.63	31.34	32.16	0.82	8.20%
Mar Dyke LWS	316_20m	558081	180069	59.71	61.10	1.39	Y	10	25.21	27.77	28.33	0.56	5.60%
Mar Dyke LWS	316_30m	558084	180078	53.15	54.15	1.00	Y	10	23.85	25.81	26.22	0.41	4.10%
Mar Dyke LWS	316_40m	558087	180088	48.99	49.75	0.76	Y	10	22.95	24.55	24.87	0.32	3.20%
Mar Dyke LWS	316_50m	558090	180097	46.05	46.65	0.60	Y	10	22.31	23.66	23.92	0.26	2.60%
Mar Dyke LWS	316_60m	558093	180106	43.88	44.35	0.47	Y	10	21.83	23.00	23.20	0.20	2.00%
Mar Dyke LWS	316_70m	558097	180116	42.20	42.59	0.39	Y	10	21.46	22.48	22.65	0.17	1.70%
Mar Dyke LWS	316_80m	558100	180125	40.85	41.17	0.32	Y	10	21.15	22.07	22.21	0.14	1.40%
Mar Dyke LWS	316_90m	558103	180135	39.73	40.00	0.27	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_100m	558106	180144	38.82	39.04	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_110m	558109	180154	38.04	38.22	0.18	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_120m	558113	180163	37.35	37.50	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_130m	558116	180173	36.75	36.88	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_140m	558119	180182	36.23	36.35	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_LWS	558038	180023	87.31	90.46	3.15	Y	10	31.81	35.19	36.31	1.12	11.20%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Mar Dyke LWS	317_10m	558035	180013	60.06	61.44	1.38	Y	10	25.69	27.66	28.19	0.53	5.30%
Mar Dyke LWS	317_20m	558032	180004	51.05	51.87	0.82	Y	10	23.58	25.07	25.41	0.34	3.40%
Mar Dyke LWS	317_30m	558029	179994	48.15	48.72	0.57	Y	10	22.48	23.68	23.92	0.24	2.40%
Mar Dyke LWS	317_40m	558026	179985	45.24	45.65	0.41	Y	10	21.80	22.81	22.98	0.17	1.70%
Mar Dyke LWS	317_50m	558023	179975	43.22	43.52	0.30	Y	10	21.33	22.19	22.33	0.14	1.40%
Mar Dyke LWS	317_60m	558020	179966	41.75	41.97	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_70m	558016	179956	40.61	40.80	0.19	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_80m	558013	179947	39.72	39.87	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_90m	558010	179937	39.01	39.12	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_100m	558007	179928	38.40	38.48	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_110m	558004	179918	37.90	37.97	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_120m	558001	179909	37.48	37.52	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_130m	557998	179899	36.59	36.63	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_140m	557995	179890	36.28	36.30	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_150m	557991	179880	36.01	36.01	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	24.57	26.72	2.15	Y	10	32.18	31.89	33.56	1.67	16.70%
Thames Chase Forest Centre SINC	38_CON_10m	557978	186152	24.42	25.36	0.94	Y	10	32.14	31.79	32.51	0.72	7.20%

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Thames Chase Forest Centre SINC	38_CON_20m	557988	186152	24.40	24.98	0.58	Y	10	32.15	31.77	32.21	0.44	4.40%
Thames Chase Forest Centre SINC	38_CON_30m	557998	186152	24.42	24.80	0.38	Y	10	32.16	31.77	32.07	0.30	3.00%
Thames Chase Forest Centre SINC	38_CON_40m	558008	186152	23.70	24.00	0.30	Y	10	32.19	31.80	32.01	0.21	2.10%
Thames Chase Forest Centre SINC	38_CON_50m	558018	186152	23.73	23.97	0.24	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_60m	558028	186152	23.77	23.95	0.18	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_70m	558038	186152	23.81	23.95	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_80m	558048	186152	23.86	23.97	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_90m	558058	186152	23.91	23.98	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_100m	558068	186152	23.95	24.02	0.07	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Thames Chase Forest Centre SINC	38_CON_110m	558078	186152	24.01	24.04	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_120m	558088	186152	24.05	24.09	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_130m	558098	186152	24.11	24.12	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_140m	558108	186152	24.18	24.18	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_150m	558118	186151	24.23	24.23	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_160m	558128	186151	24.29	24.28	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_170m	558138	186151	24.36	24.32	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_180m	558148	186151	24.43	24.39	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_190m	558158	186151	24.51	24.46	-0.05	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Shorne and Ashenbank Woods SSSI	389_SSSI	569319	169607	64.44	64.75	0.31	Y	15	51.90	49.56	50.19	0.63	4.20%
Shorne and Ashenbank Woods SSSI	389_10m	569317	169617	52.56	52.77	0.21	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_20m	569316	169627	46.04	46.19	0.15	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_30m	569315	169637	41.85	41.96	0.11	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_40m	569313	169647	38.86	38.96	0.10	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_50m	569312	169657	36.66	36.73	0.07	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_60m	569310	169666	34.90	34.97	0.07	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_70m	569309	169676	33.50	33.55	0.05	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_80m	569308	169686	32.34	32.39	0.05	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Shorne and Ashenbank Woods SSSI	389_90m	569306	169696	31.36	31.40	0.04	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_100m	569305	169706	30.53	30.57	0.04	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_110m	569303	169716	29.80	29.83	0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_120m	569302	169726	29.17	29.21	0.04	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_130m	569301	169736	28.61	28.64	0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_140m	569299	169746	28.11	28.14	0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_150m	569298	169756	27.66	27.68	0.02	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_160m	569297	169765	27.25	27.28	0.03	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_170m	569295	169775	26.90	26.91	0.01	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Shorne and Ashenbank Woods SSSI	389_180m	569294	169785	26.56	26.57	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_190m	569292	169795	26.25	26.26	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_200m	569291	169805	25.96	25.98	0.02	N	15	N/A	N/A	N/A	N/A	N/A
Ockendon RAILSIDES SINC	40_LWS_CON	558293	184600	107.96	110.02	2.06	Y	10	74.57	71.38	72.77	1.39	13.90%
Ockendon RAILSIDES SINC	40_CON_10m	558283	184602	68.28	70.04	1.76	Y	10	55.52	53.57	54.78	1.21	12.10%
Ockendon RAILSIDES SINC	41_LWS_CON	557906	185489	24.32	26.93	2.61	Y	10	32.49	32.18	34.19	2.01	20.10%
Ockendon RAILSIDES SINC	41_CON_10m	557916	185487	24.14	25.14	1.00	Y	10	32.44	32.06	32.83	0.77	7.70%
Ockendon RAILSIDES SINC	42_LWS_CON	557901	185496	24.27	26.75	2.48	Y	10	32.46	32.17	34.08	1.91	19.10%
Ockendon RAILSIDES SINC	42_CON_10m	557892	185499	23.97	24.82	0.85	Y	10	32.34	31.97	32.62	0.65	6.50%
Ockendon RAILSIDES SINC	42_CON_20m	557882	185502	23.86	24.34	0.48	Y	10	32.29	31.89	32.26	0.37	3.70%
Ockendon RAILSIDES SINC	42_CON_30m	557872	185504	23.79	24.11	0.32	Y	10	32.25	31.85	32.10	0.25	2.50%

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	65.69	67.38	1.69	Y	20	24.63	26.60	27.25	0.65	3.25%
Arena Essex, West Thurrock LWS	43_CON_10m	558184	179954	54.22	55.22	1.00	Y	20	21.95	23.33	23.73	0.40	2.00%
Arena Essex, West Thurrock LWS	43_CON_20m	558181	179945	48.49	49.15	0.66	Y	20	20.58	21.65	21.93	0.28	1.40%
Arena Essex, West Thurrock LWS	43_CON_30m	558178	179935	45.10	45.59	0.49	Y	20	19.77	20.65	20.85	0.20	1.00%
Arena Essex, West Thurrock LWS	43_CON_40m	558175	179926	42.82	43.19	0.37	Y	20	19.22	19.96	20.13	0.17	0.85%
Arena Essex, West Thurrock LWS	43_CON_50m	558172	179916	41.17	41.45	0.28	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_60m	558169	179907	39.93	40.16	0.23	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_70m	558165	179897	38.98	39.16	0.18	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_80m	558162	179888	38.19	38.33	0.14	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_90m	558159	179878	37.56	37.68	0.12	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_100m	558156	179869	37.02	37.11	0.09	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_110m	558153	179859	36.57	36.64	0.07	N	20	N/A	N/A	N/A	N/A	N/A



Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Arena Essex, West Thurrock LWS	43_CON_120m	558150	179850	36.18	36.23	0.05	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_130m	558147	179840	35.83	35.87	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_140m	558143	179831	35.55	35.58	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_150m	558140	179821	35.28	35.31	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_160m	558137	179812	35.06	35.06	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_170m	558134	179802	34.85	34.85	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_180m	558131	179793	34.66	34.66	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_190m	558128	179783	34.50	34.49	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	73.23	75.44	2.21	Y	15	49.23	54.77	56.12	1.35	9.00%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_10m	558205	180021	60.45	61.90	1.45	Y	15	44.97	48.69	49.62	0.93	6.20%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2026	DS 2026	Change	Perceptible Change		Base 2016	DM 2026	DS 2026	Change	
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_20m	558209	180030	53.43	54.47	1.04	Y	15	42.50	45.29	45.97	0.68	4.53%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_30m	558212	180040	49.04	49.84	0.80	Y	15	40.90	43.14	43.68	0.54	3.60%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_40m	558215	180049	45.98	46.63	0.65	Y	15	39.77	41.63	42.07	0.44	2.93%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_50m	558218	180059	43.75	44.27	0.52	Y	15	38.92	40.52	40.88	0.36	2.40%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_CON_60m	558221	180068	42.00	42.45	0.45	Y	15	38.25	39.65	39.96	0.31	2.07%

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2026)*

*Con = Construction Scenario (2026)*

*Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{Yr}^{-1}$ )*

*The results presented in this table are at transect receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

**Table 2.5 Modelled Nitrogen (N) Deposition for Ecological Designated Sites in Base 2016, Do-Minimum (DM) 2027 and Construction (Con) 2027 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Hall Farm moat, paddock and St Mary Magdalene Churchyard, North Ockenden SINC	2_LWS_CON	558689	184612	25.48	25.39	-0.09	N	20	N/A	N/A	N/A	N/A	N/A
North Ockendon Pit SINC	31_LWS_CON	559025	184266	22.68	22.69	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_LWS	559200	187078	46.43	47.35	0.92	Y	20	27.88	26.66	27.04	0.38	1.90%
Clay Tye Wood SINC	246_AW_LWS	559508	186949	22.83	22.72	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Franks Wood And Cranham Brickfields SINC	37_LWS_CON	558017	188426	57.07	55.70	-1.37	Y	10	48.41	48.28	47.58	-0.70	-7.00%
AW_Theme_ID149 5743 AW	79_AW_LWS	558346	188587	53.01	52.29	-0.72	Y	10	46.24	45.90	45.59	-0.31	-3.10%
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	23.61	26.53	2.92	Y	10	32.05	31.72	34.17	2.45	24.50%
Thames Chase Forest Centre SINC	519_LWS	558341	185802	30.96	30.39	-0.57	Y	10	37.35	36.09	35.63	-0.46	-4.60%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Thames Chase Forest Centre SINC	520_LWS	558686	186482	31.88	31.04	-0.84	Y	10	36.54	35.78	35.28	-0.50	-5.00%
Ockendon Railsides SINC	30a_LWS_CON	558011	185034	33.26	28.02	-5.24	Y	10	39.18	37.95	34.02	-3.93	-39.30%
Ockendon Railsides SINC	30b_LWS_CON	558064	185153	25.66	25.30	-0.36	Y	10	33.82	33.12	32.81	-0.31	-3.10%
Pot Kiln Wood and Sickle Wood SINC	32_LWS_CON	557359	188701	30.45	30.26	-0.19	N	10	N/A	N/A	N/A	N/A	N/A
Hillview SINC	4_LWS_CON	557393	188821	58.34	57.21	-1.13	Y	20	28.71	28.15	27.76	-0.39	-1.95%
Fields south of Cranham Marsh SINC	33_LWS_CON	557882	185038	31.77	31.69	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Strawberry Farm Wood SINC	5_LWS_CON	556631	188978	48.75	48.00	-0.75	Y	10	45.24	44.32	43.88	-0.44	-4.40%
Tylers Common SINC	6_LWS_CON	556257	190381	26.72	27.18	0.46	Y	20	21.15	20.84	21.08	0.24	1.20%
Upminster Lodge Farm Horse Field SINC	524_LWS	556627	189061	33.39	33.09	-0.30	N	20	N/A	N/A	N/A	N/A	N/A
Ingrebourne Valley SINC	512_LWS	556443	192751	64.02	63.96	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Hall Lane verge and Montrose pastures SINC	7_LWS_CON	556190	190347	27.61	28.22	0.61	Y	20	21.57	21.25	21.56	0.31	1.55%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Great Crabbles Wood AW	237_SSSI_AW	570238	169962	25.23	24.89	-0.34	Y	15	34.12	33.69	33.46	-0.23	-1.53%
Grays Thurrock Chalk Pit SSSI	8_SSSI_CON	560951	179197	39.28	39.30	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_SSSI	569319	169607	62.48	54.36	-8.12	Y	15	51.90	49.07	44.73	-4.34	-28.93%
Shorne and Ashenbank Woods SSSI	349_SSSI	567544	169643	25.28	24.77	-0.51	Y	15	32.31	31.56	31.26	-0.30	-2.00%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_RAM S AR	567998	173209	28.18	29.42	1.24	Y	20	17.98	17.73	18.44	0.71	3.55%
Thorndon Park SSSI	342_SSSI_AW_ LWS	562979	189489	25.45	25.40	-0.05	N	15	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID142 0010 AW	91_LWS_AW	562782	189264	57.63	57.09	-0.54	Y	10	53.03	49.31	49.02	-0.29	-2.90%
AW_Theme_ID142 0008 AW	84_LWS_AW	563004	189268	46.79	46.36	-0.43	Y	10	46.04	44.03	43.78	-0.25	-2.50%
AW_Theme_ID_148 6820 (A2/M2 ROUNDAABOUT) AW	235_AW	570083	169537	45.19	42.20	-2.99	Y	10	45.44	43.30	41.61	-1.69	-16.90%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Swanscombe Peninsula SSSI	9_SSSI_CON	561539	172768	41.43	41.35	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_14 86860 (Shorne Woods) AW	233_SSSI_LWS_AW	567893	169720	67.16	60.54	-6.62	Y	10	54.90	51.48	48.04	-3.44	-34.40%
AW_Theme_ID_14 86883 (Object ID 9151) AW	236_AW	570036	169317	28.31	27.50	-0.81	Y	10	35.98	35.27	34.75	-0.52	-5.20%
AW_Theme_ID148 6951 AW	1_AW_SSSI_CON	567429	170972	20.45	20.50	0.05	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7077 AW	176_AW	566711	159418	45.81	46.58	0.77	Y	10	61.19	60.49	60.92	0.43	4.30%
AW_Theme_ID148 7079 AW	192_AW	569323	159174	23.36	23.42	0.06	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7086 AW	179_AW	567925	159727	41.51	42.14	0.63	Y	10	58.98	58.32	58.67	0.35	3.50%
AW_Theme_ID148 7106 AW	178_AW	567663	159684	45.85	46.60	0.75	Y	10	61.05	60.36	60.78	0.42	4.20%
AW_Theme_ID149 8694 AW	182_AW	573609	158289	28.05	28.14	0.09	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID149 8708 AW	10_AW_CON	573706	158300	27.24	27.32	0.08	N	10	N/A	N/A	N/A	N/A	N/A
CHADWELL WOOD (AW_Theme_ID 1119923) AW	96_AW	563871	179186	31.95	31.86	-0.09	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Claylane Wood AW	228_AW	566415	170290	51.16	46.05	-5.11	Y	10	45.55	43.23	40.33	-2.90	-29.00%
Codham Hall Wood AW	78_LWS_AW	558456	188600	49.49	49.71	0.22	N	10	N/A	N/A	N/A	N/A	N/A
HANGMANS WOOD (AW_Theme_ID 1119444) AW	360_LWS_AW	557699	180369	37.05	36.68	-0.37	Y	10	37.02	37.46	37.22	-0.24	-2.40%
Hobbs Hole AW	376_AW	558676	188080	39.30	40.12	0.82	Y	10	39.65	38.91	39.57	0.66	6.60%
LITTLE RYARSH WOOD (AW_Theme_ID 1487103) AW	177_AW	567399	159542	37.55	38.05	0.50	Y	10	57.12	56.39	56.68	0.29	2.90%
MILL WOOD (AW_Theme_ID 1119931) AW	105_LWS_AW	563000	189311	58.93	58.39	-0.54	Y	10	53.23	50.08	49.80	-0.28	-2.80%
Peartree Wood AW	262_AW	570636	171201	31.81	33.17	1.36	Y	10	38.80	37.32	38.39	1.07	10.70%
Round Shaw (AW_Theme_ID 1119930) AW	85_LWS_AW	562767	189220	45.82	45.38	-0.44	Y	10	46.12	43.54	43.28	-0.26	-2.60%
Cat's Mede LWS	11_AW_LWS_C ON	560790	180788	33.81	34.26	0.45	Y	10	38.09	37.49	37.81	0.32	3.20%
Shorne/Brewers Woods AW	234_AW	568612	169694	70.87	59.27	-11.60	Y	15	56.36	53.33	47.27	-6.06	-40.40%
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	28.17	26.06	-2.11	Y	15	33.58	33.26	31.89	-1.37	-9.13%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Shorne/Brewers Woods AW	13_AW_CON	568432	169858	27.63	25.65	-1.98	Y	15	33.31	32.97	31.68	-1.29	-8.60%
Court Wood, Shorne LWS	14_AW_LWS_CON	569557	170503	22.83	22.45	-0.38	Y	10	31.59	30.70	30.38	-0.32	-3.20%
Warley Hall Wood LWS	83_LWS_AW	560148	188760	58.80	58.08	-0.72	Y	10	53.94	49.91	49.52	-0.39	-3.90%
Low Well Wood (AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	55.49	55.36	-0.13	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	27.57	28.34	0.77	Y	10	35.73	34.75	35.38	0.63	6.30%
Addington Meadow LWS	37_LWS	565309	159091	19.56	19.65	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	464_LWS	569428	159350	51.49	51.99	0.50	Y	20	36.29	35.18	35.35	0.17	0.85%
Ebbsfleet Marshes, Northfleet LWS	16_LWS_CON	561714	172689	39.19	39.11	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	359_LWS	560154	188727	59.18	58.36	-0.82	Y	10	54.04	50.03	49.59	-0.44	-4.40%
Hobbs Hole LWS	82_LWS	558664	188077	43.93	44.83	0.90	Y	10	41.96	41.14	41.88	0.74	7.40%
Thordon Country Park South LWS	320_LWS	561836	189251	23.89	23.85	-0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	63.40	64.42	1.02	Y	20	24.63	26.35	26.75	0.40	2.00%



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Blackshots Nature Area, Grays LWS	45_LWS_CON	563314	180763	39.93	40.64	0.71	Y	20	23.32	22.92	23.23	0.31	1.55%
Mar Dyke LWS	316_LWS	558074	180050	100.12	100.12	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_LWS	558038	180023	84.17	86.42	2.25	Y	10	31.81	34.82	35.64	0.82	8.20%
Mar Dyke LWS	17_LWS_CON	557669	179915	50.16	50.11	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Terrels Heath Grays LWS	383_LWS	563865	179185	30.87	30.80	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Mucking Heath LWS	321_LWS	565312	180179	34.13	34.66	0.53	Y	10	21.40	21.69	21.92	0.23	2.30%
Rainbow Shaw LWS	66_LWS	566223	179828	24.18	24.20	0.02	N	15	N/A	N/A	N/A	N/A	N/A
Sandmartin Cliff, Chafford Hundred LWS	18_LWS_CON	560797	179205	35.88	35.86	-0.02	N	15	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_LWS	558542	188551	51.64	52.10	0.46	Y	10	45.94	44.90	45.29	0.39	3.90%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	70.77	71.07	0.30	N	15	N/A	N/A	N/A	N/A	N/A
Little Thurrock reedbeds LWS	19_LWS_CON	563123	177772	32.14	32.18	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Little Thurrock reedbeds LWS	322_LWS	563247	177930	36.00	36.05	0.05	N	10	N/A	N/A	N/A	N/A	N/A
The Oaks LWS	46_LWS_CON	556447	192934	39.49	39.37	-0.12	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Low Well Wood, South Ockendon LWS	20_LWS_CON	557952	180009	43.73	43.76	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	21_LWS_CON	558005	180099	54.64	54.36	-0.28	N	10	N/A	N/A	N/A	N/A	N/A
Warren Gorge Chafford Hundred LWS	62_LWS	559640	179576	45.72	45.97	0.25	N	10	N/A	N/A	N/A	N/A	N/A
Linford Pit LWS	324_LWS	566483	179828	24.10	24.11	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Low Street Pit LWS	47_LWS_CON	567090	177556	26.81	26.90	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Vange Depot LWS	576_LWS	570694	185907	27.74	27.86	0.12	N	15	N/A	N/A	N/A	N/A	N/A
Parker's Shaw LWS	4_LWS	558204	189416	26.44	26.78	0.34	Y	10	33.75	33.16	33.47	0.31	3.10%
All Saints Churchyard and Keepers Cottage Meadow LWS	17_LWS	563416	189417	44.65	44.67	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_LWS_CON	564980	176042	41.80	42.20	0.40	Y	20	20.04	21.18	21.38	0.20	1.00%
Lyttag Brownfield LWS	23_LWS_CON	565619	176322	29.10	29.24	0.14	N	20	N/A	N/A	N/A	N/A	N/A
Lyttag Brownfield LWS	24_LWS_CON	565399	176330	30.17	30.27	0.10	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Tilbury Centre LWS	25_LWS_CON	565894	176060	28.66	29.13	0.47	Y	20	19.63	19.18	19.45	0.27	1.35%
South Ockendon Church LWS	26_LWS_CON	559471	182945	31.02	31.21	0.19	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	29.75	31.15	1.40	Y	20	20.77	20.34	21.05	0.71	3.55%
Greater Thames Marshes NIA	28_NIA_CON	570967	186242	29.80	29.89	0.09	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	29_NIA_CON	565198	180007	29.95	30.25	0.30	Y	20	20.99	20.77	20.92	0.15	0.75%
Greater Thames Marshes NIA	268_NIA	563491	178086	32.37	32.48	0.11	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	377_NIA	567073	177725	25.54	25.56	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	378_NIA	567107	177727	25.52	25.55	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	384_NIA	564609	178142	36.74	37.00	0.26	N	20	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_LWS	561989	189096	55.65	55.15	-0.50	Y	10	52.47	48.85	48.58	-0.27	-2.70%
Shorne and Ashenbank Woods SSSI	264_SSSI_LWS	568380	169830	27.06	25.25	-1.81	Y	15	33.18	32.54	31.36	-1.18	-7.87%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Leybourne Lakes Etc., Snodland LWS	463_LWS	569513	159230	42.52	42.93	0.41	Y	20	33.39	32.66	32.80	0.14	0.70%
Ashenbank Woodland LWS	368_LWS	567826	169403	24.42	22.77	-1.65	Y	10	33.07	31.99	30.65	-1.34	-13.40%
Ashenbank Woodland LWS	369_LWS	567752	169611	27.01	26.25	-0.76	Y	10	33.32	32.44	31.98	-0.46	-4.60%
Ebbsfleet Marshes, Northfleet LWS	230_LWS	561760	172590	71.25	70.94	-0.31	Y	10	33.51	30.96	30.85	-0.11	-1.10%
Mar Dyke LWS	35_LWS_CON	557535	179858	66.83	66.09	-0.74	Y	10	25.62	27.12	26.85	-0.27	-2.70%
Mar Dyke LWS	36_LWS_CON	557439	179398	38.41	38.09	-0.32	Y	10	18.62	18.89	18.75	-0.14	-1.40%
Folkes Lane Woodland	609a_SINC	557926	189444	49.11	52.68	3.57	Y	10	45.49	44.19	46.72	2.53	25.30%
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	35.27	36.54	1.27	Y	15	23.22	22.37	22.98	0.61	4.07%
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	35.53	36.84	1.31	Y	15	23.49	22.42	23.05	0.63	4.20%
Ockendon Railsides SINC	521_LWS	558328	184516	65.52	63.60	-1.92	Y	10	54.82	52.64	51.66	-0.98	-9.80%
Low Well Wood, South Ockendon LWS	318_LWS	557707	179995	50.42	50.06	-0.36	Y	10	37.41	38.92	38.71	-0.21	-2.10%
Ranscombe Farm Country Park LWS	231_LWS	566345	168800	20.09	20.47	0.38	Y	10	30.60	29.98	30.32	0.34	3.40%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	23.87	26.74	2.87	Y	10	32.18	31.85	34.23	2.38	23.80%
Ockendon Railsides SINC	39_LWS_CON	558463	184154	27.21	27.02	-0.19	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	40_LWS_CON	558293	184600	105.07	105.07	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	41_LWS_CON	557906	185489	23.63	27.07	3.44	Y	10	32.49	32.15	35.00	2.85	28.50%
Ockendon Railsides SINC	42_LWS_CON	557901	185496	23.58	26.88	3.30	Y	10	32.46	32.11	34.84	2.73	27.30%
Veteran Tree	598_VT	566518	168700	26.25	24.21	-2.04	Y	10	35.03	33.82	32.20	-1.62	-16.20%
Veteran Tree	432_VT	566508	168750	18.98	18.77	-0.21	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	800_VT	557898	184890	24.17	24.05	-0.12	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	410_VT	568198	169490	25.51	24.28	-1.23	Y	10	33.98	32.47	31.50	-0.97	-9.70%
Veteran Tree	27_VT	568148	169440	23.62	22.75	-0.87	Y	10	32.60	31.38	30.66	-0.72	-7.20%
Veteran Tree	802_VT	575429	155503	37.71	37.88	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	718_VT	565428	170694	33.62	33.19	-0.43	Y	10	35.78	34.53	34.26	-0.27	-2.70%
Veteran Tree	428_VT	565432	170691	33.72	33.31	-0.41	Y	10	35.85	34.58	34.32	-0.26	-2.60%
Veteran Tree	719_VT	565477	170699	32.50	32.09	-0.41	Y	10	34.95	34.07	33.81	-0.26	-2.60%
Veteran Tree	720_VT	565459	170713	32.58	32.20	-0.38	Y	10	34.90	34.16	33.92	-0.24	-2.40%
Veteran Tree	721_VT	565470	170705	32.50	32.11	-0.39	Y	10	34.91	34.09	33.84	-0.25	-2.50%
Veteran Tree	723_VT	565681	170658	30.87	30.35	-0.52	Y	10	34.05	33.26	32.92	-0.34	-3.40%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2027	DS 2027	Change	Perceptible Change		Base 2016	DM 2027	DS 2027	Change	
Veteran Tree	803_VT	575497	155525	65.44	66.77	1.33	Y	10	66.39	58.34	59.26	0.92	9.20%
Veteran Tree	401_VT	569698	169400	27.40	26.56	-0.84	Y	10	33.11	32.33	31.78	-0.55	-5.50%
Veteran Tree	804_VT	567000	173050	32.76	33.84	1.08	Y	10	34.10	33.34	34.24	0.90	9.00%

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2027)*

*Con = Construction Scenario (2027)*

*Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )*

*The results presented in this table are at worst case receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

**Table 2.6 Modelled Nitrogen (N) Deposition for Ecological Designated Site Transect Points in Base 2016, Do-Minimum (DM) 2027 and Construction (Con) 2027 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
AW_Theme_ID148 7077 AW	176_AW	566711	159418	45.81	46.58	0.77	Y	10	61.19	60.49	60.92	0.43	4.30%
AW_Theme_ID148 7077 AW	176_10m	566708	159427	39.42	40.01	0.59	Y	10	58.15	57.51	57.85	0.34	3.40%
AW_Theme_ID148 7077 AW	176_20m	566704	159436	35.31	35.79	0.48	Y	10	56.16	55.57	55.85	0.28	2.80%
AW_Theme_ID148 7077 AW	176_30m	566700	159446	32.52	32.91	0.39	Y	10	54.77	54.23	54.46	0.23	2.30%
AW_Theme_ID148 7077 AW	176_40m	566696	159455	30.43	30.79	0.36	Y	10	53.75	53.22	53.44	0.22	2.20%
AW_Theme_ID148 7077 AW	176_50m	566693	159464	28.84	29.15	0.31	Y	10	52.95	52.46	52.65	0.19	1.90%
AW_Theme_ID148 7077 AW	176_60m	566689	159473	27.57	27.85	0.28	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7077 AW	176_70m	566685	159483	26.56	26.80	0.24	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7077 AW	176_80m	566682	159492	25.69	25.92	0.23	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7077 AW	176_90m	566678	159501	24.95	25.16	0.21	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7077 AW	176_100m	566674	159511	24.33	24.53	0.20	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
AW_Theme_ID148 7077 AW	176_110m	566670	159520	23.79	23.97	0.18	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7106 AW	178_AW	567663	159684	45.85	46.60	0.75	Y	10	61.05	60.36	60.78	0.42	4.20%
AW_Theme_ID148 7106 AW	178_10m	567662	159694	39.41	39.99	0.58	Y	10	57.97	57.35	57.68	0.33	3.30%
AW_Theme_ID148 7106 AW	178_20m	567660	159704	35.34	35.80	0.46	Y	10	56.00	55.42	55.69	0.27	2.70%
AW_Theme_ID148 7106 AW	178_30m	567659	159714	32.53	32.92	0.39	Y	10	54.61	54.07	54.30	0.23	2.30%
AW_Theme_ID148 7106 AW	178_40m	567658	159724	30.43	30.77	0.34	Y	10	53.57	53.06	53.27	0.21	2.10%
AW_Theme_ID148 7106 AW	178_50m	567656	159734	28.84	29.13	0.29	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7106 AW	178_60m	567655	159744	27.57	27.82	0.25	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7106 AW	178_70m	567653	159754	26.53	26.77	0.24	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148 7106 AW	178_80m	567652	159764	25.66	25.87	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_AW	570636	171201	31.81	33.17	1.36	Y	10	38.80	37.32	38.39	1.07	10.70%
Peartree Wood AW	262_10m	570629	171194	27.23	27.84	0.61	Y	10	35.57	34.53	35.04	0.51	5.10%
Peartree Wood AW	262_20m	570622	171187	25.64	25.98	0.34	Y	10	34.48	33.57	33.85	0.28	2.80%
Peartree Wood AW	262_30m	570614	171180	24.82	25.05	0.23	N	10	N/A	N/A	N/A	N/A	N/A



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Peartree Wood AW	262_40m	570607	171173	24.34	24.49	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_50m	570600	171166	23.99	24.10	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_60m	570593	171159	23.75	23.82	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_70m	570586	171152	23.58	23.62	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_80m	570578	171145	23.45	23.46	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_90m	570571	171137	23.33	23.32	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_100m	570564	171130	23.25	23.23	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_110m	570557	171123	23.17	23.14	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_120m	570550	171116	23.12	23.08	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_130m	570542	171109	23.07	23.01	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_140m	570535	171102	23.03	22.97	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_150m	570528	171095	22.99	22.91	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_160m	570521	171088	22.96	22.89	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_170m	570514	171081	22.93	22.85	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_180m	570506	171074	22.91	22.83	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_190m	570499	171067	22.89	22.80	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_200m	570492	171060	22.88	22.78	-0.10	N	10	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	29.75	31.15	1.40	Y	20	20.77	20.34	21.05	0.71	3.55%
Arisdale Avenue LWS	27_CON_10m	558591	182869	28.64	29.31	0.67	Y	20	20.26	19.86	20.20	0.34	1.70%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Arisdale Avenue LWS	27_CON_20m	558593	182859	28.25	28.65	0.40	Y	20	20.08	19.69	19.90	0.21	1.05%
Arisdale Avenue LWS	27_CON_30m	558594	182849	28.05	28.31	0.26	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_40m	558596	182839	27.93	28.12	0.19	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_50m	558598	182830	27.84	27.98	0.14	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_60m	558599	182820	27.78	27.88	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_70m	558601	182810	27.73	27.81	0.08	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_80m	558603	182800	27.70	27.75	0.05	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_90m	558604	182790	27.66	27.69	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_100m	558606	182780	27.64	27.65	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_110m	558608	182770	27.61	27.62	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_120m	558609	182761	27.59	27.59	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_130m	558611	182751	27.57	27.56	-0.01	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Arisdale Avenue LWS	27_CON_140m	558613	182741	27.56	27.55	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_150m	558614	182731	27.56	27.52	-0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_160m	558616	182721	27.53	27.50	-0.03	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_170m	558618	182711	27.52	27.48	-0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_180m	558619	182701	27.52	27.47	-0.05	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_CON_190m	558621	182691	27.50	27.45	-0.05	N	20	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	23.61	26.53	2.92	Y	10	32.05	31.72	34.17	2.45	24.50%
Cranham Hall Shaws and Pasture SINC	3_CON_10m	557927	186610	23.40	24.52	1.12	Y	10	31.96	31.57	32.51	0.94	9.40%
Cranham Hall Shaws and Pasture SINC	3_CON_20m	557917	186610	23.33	24.00	0.67	Y	10	31.93	31.53	32.08	0.55	5.50%
Cranham Hall Shaws and Pasture SINC	3_CON_30m	557907	186610	23.29	23.77	0.48	Y	10	31.91	31.50	31.89	0.39	3.90%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Cranham Hall Shaws and Pasture SINC	3_CON_40m	557897	186610	23.26	23.61	0.35	Y	10	31.89	31.48	31.77	0.29	2.90%
Cranham Hall Shaws and Pasture SINC	3_CON_50m	557887	186610	23.23	23.51	0.28	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_60m	557877	186609	23.21	23.43	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_70m	557867	186609	23.19	23.38	0.19	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_80m	557857	186609	23.16	23.32	0.16	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_90m	557847	186609	23.14	23.28	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_100m	557837	186609	23.11	23.24	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_110m	557827	186609	23.09	23.21	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_120m	557817	186608	23.08	23.17	0.09	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Cranham Hall Shaws and Pasture SINC	3_CON_130m	557807	186608	23.07	23.15	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_140m	557797	186608	23.05	23.12	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_150m	557787	186608	23.02	23.09	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_160m	557777	186608	23.00	23.06	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_170m	557767	186608	22.99	23.05	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_180m	557757	186607	22.96	23.02	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_190m	557747	186607	22.96	22.99	0.03	N	10	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_ RAMSAR	567998	173209	28.18	29.42	1.24	Y	20	17.98	17.73	18.44	0.71	3.55%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_10m	567998	173219	26.83	27.40	0.57	Y	20	17.48	17.21	17.54	0.33	1.65%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_20m	567999	173229	26.41	26.76	0.35	Y	20	17.32	17.04	17.25	0.21	1.05%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_30m	567999	173239	26.21	26.45	0.24	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_40m	567999	173249	26.08	26.27	0.19	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary	31_50m	567999	173259	26.00	26.16	0.16	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
and Marshes Ramsar													
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_60m	567999	173269	25.92	26.06	0.14	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_70m	567999	173279	25.89	25.99	0.10	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_80m	568000	173289	25.84	25.94	0.10	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_90m	568000	173299	25.82	25.90	0.08	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI /	31_100m	568000	173309	25.79	25.86	0.07	N	20	N/A	N/A	N/A	N/A	N/A

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Thames Estuary and Marshes Ramsar													
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_110m	568000	173319	23.05	23.12	0.07	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_120m	568000	173329	23.04	23.10	0.06	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_130m	568000	173339	23.00	23.06	0.06	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_140m	568001	173349	22.99	23.04	0.05	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and	31_150m	568001	173359	22.99	23.02	0.03	N	20	N/A	N/A	N/A	N/A	N/A



Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Marshes SSSI / Thames Estuary and Marshes Ramsar													
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_160m	568001	173369	22.96	22.99	0.03	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_170m	568001	173379	22.95	22.98	0.03	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_180m	568001	173389	22.93	22.96	0.03	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_190m	568002	173399	22.91	22.95	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_LWS	558038	180023	84.17	86.42	2.25	Y	10	31.81	34.82	35.64	0.82	8.20%

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Mar Dyke LWS	317_10m	558035	180013	57.98	58.77	0.79	Y	10	25.69	27.43	27.74	0.31	3.10%
Mar Dyke LWS	317_20m	558032	180004	49.31	49.73	0.42	Y	10	23.58	24.89	25.06	0.17	1.70%
Mar Dyke LWS	317_30m	558029	179994	46.55	46.80	0.25	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_40m	558026	179985	43.75	43.89	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_50m	558023	179975	41.81	41.89	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_60m	558020	179966	40.39	40.45	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_70m	558016	179956	39.32	39.33	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_80m	558013	179947	38.45	38.47	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_90m	558010	179937	37.77	37.76	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_100m	558007	179928	37.20	37.18	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_110m	558004	179918	36.72	36.69	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_120m	558001	179909	36.32	36.28	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_130m	557998	179899	35.45	35.40	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_140m	557995	179890	35.15	35.10	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_150m	557991	179880	34.89	34.82	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	27.57	28.34	0.77	Y	10	35.73	34.75	35.38	0.63	6.30%
Court Wood, Shorne LWS	367_10m	570472	171325	25.55	25.99	0.44	Y	10	34.36	33.50	33.87	0.37	3.70%
Court Wood, Shorne LWS	367_20m	570467	171317	24.60	24.89	0.29	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Court Wood, Shorne LWS	367_30m	570462	171308	24.03	24.24	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_40m	570457	171299	23.68	23.83	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_50m	570452	171290	23.42	23.52	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_60m	570447	171282	23.23	23.31	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_70m	570442	171273	23.08	23.14	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_80m	570437	171264	22.97	23.01	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_90m	570432	171256	22.89	22.91	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_100m	570427	171247	22.82	22.83	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_110m	570422	171238	22.76	22.75	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_120m	570417	171230	22.70	22.69	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_130m	570411	171221	22.67	22.65	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_140m	570406	171212	22.63	22.60	-0.03	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Court Wood, Shorne LWS	367_150m	570401	171203	22.61	22.56	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_160m	570396	171195	22.59	22.54	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_170m	570391	171186	22.56	22.52	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_180m	570386	171177	22.56	22.49	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_190m	570381	171169	22.54	22.47	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole AW	376_AW	558676	188080	39.30	40.12	0.82	Y	10	39.65	38.91	39.57	0.66	6.60%
Hobbs Hole AW	376_10m	558686	188083	36.82	37.56	0.74	Y	10	38.39	37.71	38.32	0.61	6.10%
Hobbs Hole AW	376_20m	558695	188087	35.03	35.70	0.67	Y	10	37.47	36.83	37.39	0.56	5.60%
Hobbs Hole AW	376_30m	558705	188090	33.52	34.15	0.63	Y	10	36.71	36.10	36.62	0.52	5.20%
Hobbs Hole AW	376_40m	558714	188093	32.45	33.04	0.59	Y	10	36.16	35.58	36.06	0.48	4.80%
Hobbs Hole AW	376_50m	558724	188097	31.45	32.00	0.55	Y	10	35.63	35.09	35.54	0.45	4.50%
Hobbs Hole AW	376_60m	558733	188100	30.70	31.22	0.52	Y	10	35.25	34.72	35.15	0.43	4.30%
Hobbs Hole AW	376_70m	558743	188104	30.00	30.47	0.47	Y	10	34.88	34.37	34.77	0.40	4.00%
Hobbs Hole AW	376_80m	558752	188107	29.46	29.90	0.44	Y	10	34.60	34.11	34.48	0.37	3.70%
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	23.87	26.74	2.87	Y	10	32.18	31.85	34.23	2.38	23.80%

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Thames Chase Forest Centre SINC	38_CON_10m	557978	186152	23.74	24.98	1.24	Y	10	32.14	31.74	32.77	1.03	10.30%
Thames Chase Forest Centre SINC	38_CON_20m	557988	186152	23.72	24.47	0.75	Y	10	32.15	31.73	32.34	0.61	6.10%
Thames Chase Forest Centre SINC	38_CON_30m	557998	186152	23.74	24.25	0.51	Y	10	32.16	31.73	32.15	0.42	4.20%
Thames Chase Forest Centre SINC	38_CON_40m	558008	186152	23.04	23.44	0.40	Y	10	32.19	31.75	32.06	0.31	3.10%
Thames Chase Forest Centre SINC	38_CON_50m	558018	186152	23.08	23.37	0.29	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_60m	558028	186152	23.11	23.34	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_70m	558038	186152	23.16	23.33	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_80m	558048	186152	23.20	23.34	0.14	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_90m	558058	186152	23.24	23.34	0.10	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Thames Chase Forest Centre SINC	38_CON_100m	558068	186152	23.28	23.36	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_110m	558078	186152	23.35	23.40	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_120m	558088	186152	23.38	23.41	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_130m	558098	186152	23.44	23.44	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_140m	558108	186152	23.50	23.50	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_150m	558118	186151	23.55	23.53	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_160m	558128	186151	23.62	23.59	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_170m	558138	186151	23.68	23.63	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_180m	558148	186151	23.75	23.68	-0.07	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Thames Chase Forest Centre SINC	38_CON_190m	558158	186151	23.81	23.73	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	41_LWS_CON	557906	185489	23.63	27.07	3.44	Y	10	32.49	32.15	35.00	2.85	28.50%
Ockendon Railsides SINC	41_CON_10m	557916	185487	23.47	24.79	1.32	Y	10	32.44	32.01	33.10	1.09	10.90%
Ockendon Railsides SINC	42_LWS_CON	557901	185496	23.58	26.88	3.30	Y	10	32.46	32.11	34.84	2.73	27.30%
Ockendon Railsides SINC	42_CON_10m	557892	185499	23.30	24.42	1.12	Y	10	32.34	31.92	32.85	0.93	9.30%
Ockendon Railsides SINC	42_CON_20m	557882	185502	23.21	23.83	0.62	Y	10	32.29	31.85	32.37	0.52	5.20%
Ockendon Railsides SINC	42_CON_30m	557872	185504	23.13	23.53	0.40	Y	10	32.25	31.81	32.14	0.33	3.30%
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	63.40	64.42	1.02	Y	20	24.63	26.35	26.75	0.40	2.00%
Arena Essex, West Thurrock LWS	43_CON_10m	558184	179954	52.38	52.92	0.54	Y	20	21.95	23.15	23.37	0.22	1.10%
Arena Essex, West Thurrock LWS	43_CON_20m	558181	179945	46.87	47.19	0.32	Y	20	20.58	21.50	21.64	0.14	0.70%
Arena Essex, West Thurrock LWS	43_CON_30m	558178	179935	43.62	43.83	0.21	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_40m	558175	179926	41.44	41.59	0.15	N	20	N/A	N/A	N/A	N/A	N/A

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Arena Essex, West Thurrock LWS	43_CON_50m	558172	179916	39.86	39.96	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_60m	558169	179907	38.67	38.74	0.07	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_70m	558165	179897	37.75	37.79	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_80m	558162	179888	37.00	37.01	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_90m	558159	179878	36.39	36.39	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_100m	558156	179869	35.87	35.87	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_110m	558153	179859	35.45	35.44	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_120m	558150	179850	35.07	35.04	-0.03	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_130m	558147	179840	34.75	34.71	-0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_140m	558143	179831	34.46	34.42	-0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_150m	558140	179821	34.21	34.16	-0.05	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_160m	558137	179812	33.99	33.94	-0.05	N	20	N/A	N/A	N/A	N/A	N/A



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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Arena Essex, West Thurrock LWS	43_CON_170m	558134	179802	33.79	33.74	-0.05	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_180m	558131	179793	33.62	33.56	-0.06	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_CON_190m	558128	179783	33.45	33.40	-0.05	N	20	N/A	N/A	N/A	N/A	N/A
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	35.27	36.54	1.27	Y	15	23.22	22.37	22.98	0.61	4.07%
A226 Gravesend Road Side Nature Reserve	447_10m	568312	172342	28.11	28.69	0.58	Y	15	20.16	19.63	19.93	0.30	2.00%
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	35.53	36.84	1.31	Y	15	23.49	22.42	23.05	0.63	4.20%
Folkes Lane Woodland	609a_SINC	557926	189444	49.11	52.68	3.57	Y	10	45.49	44.19	46.72	2.53	25.30%
Folkes Lane Woodland	609a_10m	557918	189439	41.28	43.28	2.00	Y	10	41.50	40.36	41.87	1.51	15.10%
Folkes Lane Woodland	609a_20m	557909	189433	37.03	38.36	1.33	Y	10	39.29	38.27	39.31	1.04	10.40%
Folkes Lane Woodland	609a_30m	557901	189428	34.31	35.23	0.92	Y	10	37.85	36.93	37.68	0.75	7.50%
Folkes Lane Woodland	609a_40m	557893	189422	32.41	33.10	0.69	Y	10	36.83	35.98	36.57	0.59	5.90%

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				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Folkes Lane Woodland	609a_50m	557884	189417	30.99	31.53	0.54	Y	10	36.06	35.28	35.75	0.47	4.70%
Folkes Lane Woodland	609a_60m	557876	189412	29.89	30.32	0.43	Y	10	35.46	34.73	35.12	0.39	3.90%
Folkes Lane Woodland	609a_70m	557867	189406	29.00	29.36	0.36	Y	10	34.98	34.29	34.62	0.33	3.30%
Folkes Lane Woodland	609a_80m	557859	189401	28.28	28.58	0.30	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_90m	557851	189395	27.69	27.93	0.24	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_100m	557842	189390	27.15	27.37	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_110m	557834	189384	26.72	26.90	0.18	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole LWS	82_LWS	558664	188077	43.93	44.83	0.90	Y	10	41.96	41.14	41.88	0.74	7.40%
Hobbs Hole LWS	82_10m	558674	188080	40.07	40.89	0.82	Y	10	40.03	39.28	39.95	0.67	6.70%
Hobbs Hole LWS	82_20m	558683	188083	37.39	38.15	0.76	Y	10	38.68	37.99	38.61	0.62	6.20%
Hobbs Hole LWS	82_30m	558693	188086	35.43	36.12	0.69	Y	10	37.68	37.04	37.60	0.56	5.60%
Hobbs Hole LWS	82_40m	558702	188089	33.91	34.55	0.64	Y	10	36.90	36.29	36.81	0.52	5.20%
Hobbs Hole LWS	82_50m	558712	188092	32.71	33.31	0.60	Y	10	36.28	35.70	36.19	0.49	4.90%
Hobbs Hole LWS	82_60m	558721	188096	31.72	32.28	0.56	Y	10	35.77	35.22	35.68	0.46	4.60%
Hobbs Hole LWS	82_70m	558731	188099	30.90	31.43	0.53	Y	10	35.35	34.82	35.25	0.43	4.30%
Hobbs Hole LWS	82_80m	558740	188102	30.20	30.69	0.49	Y	10	34.99	34.47	34.88	0.41	4.10%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2027	Con 2027	Change	Perceptible Change		Base 2016	DM 2027	Con 2027	Change	
Hobbs Hole LWS	82_90m	558750	188105	29.61	30.08	0.47	Y	10	34.68	34.18	34.57	0.39	3.90%
Hobbs Hole LWS	82_100m	558759	188108	29.10	29.53	0.43	Y	10	34.41	33.94	34.30	0.36	3.60%
Veteran Tree	805_VT	567133	173023	31.51	32.04	0.53	Y	10	33.35	32.55	33.00	0.45	4.50%

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2027)*

*Con = Construction Scenario (2027)*

*Perceptible Change = Change in NOx greater than +/-  $0.3 \mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )*

*The results presented in this table are at transect receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

**Table 2.7 Modelled Nitrogen (N) Deposition for Ecological Designated Sites in Base 2016, Do-Minimum (DM) 2028 and Construction (Con) 2028 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Hall Farm moat, paddock and St Mary Magdalene Churchyard, North Ockenden SINC	2_LWS_CON	558689	184612	24.84	24.78	-0.06	N	20	N/A	N/A	N/A	N/A	N/A
North Ockendon Pit SINC	31_LWS_CON	559025	184266	22.13	22.16	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_LWS	559200	187078	45.25	46.74	1.49	Y	20	27.88	26.55	27.19	0.64	3.20%
Clay Tye Wood SINC	246_AW_LWS	559508	186949	22.28	22.25	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Franks Wood And Cranham Brickfields SINC	37_LWS_CON	558017	188426	55.63	54.58	-1.05	Y	10	48.41	48.06	47.48	-0.58	-5.80%
AW_Theme_ID14957 43 AW	79_AW_LWS	558346	188587	51.68	51.11	-0.57	Y	10	46.24	45.69	45.42	-0.27	-2.70%
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	23.04	23.70	0.66	Y	10	32.05	31.67	32.25	0.58	5.80%
Thames Chase Forest Centre SINC	519_LWS	558341	185802	30.19	29.71	-0.48	Y	10	37.35	35.96	35.54	-0.42	-4.20%
Thames Chase Forest Centre SINC	520_LWS	558686	186482	31.09	30.38	-0.71	Y	10	36.54	35.67	35.22	-0.45	-4.50%
Ockendon Railsides SINC	30a_LWS_CO N	558011	185034	32.38	31.20	-1.18	Y	10	39.18	37.80	36.85	-0.95	-9.50%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Ockendon Railsides SINC	30b_LWS_CO N	558064	185153	25.02	24.87	-0.15	N	10	N/A	N/A	N/A	N/A	N/A
Pot Kiln Wood and Sickle Wood SINC	32_LWS_CON	557359	188701	29.69	29.53	-0.16	N	10	N/A	N/A	N/A	N/A	N/A
Hillview SINC	4_LWS_CON	557393	188821	56.88	55.85	-1.03	Y	20	28.71	28.06	27.68	-0.38	-1.90%
Fields south of Cranham Marsh SINC	33_LWS_CON	557882	185038	30.97	30.94	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Strawberry Farm Wood SINC	5_LWS_CON	556631	188978	47.51	46.83	-0.68	Y	10	45.24	44.17	43.75	-0.42	-4.20%
Tylers Common SINC	6_LWS_CON	556257	190381	26.05	26.32	0.27	N	20	N/A	N/A	N/A	N/A	N/A
Upminster Lodge Farm Horse Field SINC	524_LWS	556627	189061	32.56	32.27	-0.29	N	20	N/A	N/A	N/A	N/A	N/A
Ingrebourne Valley SINC	512_LWS	556443	192751	62.43	62.43	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Hall Lane verge and Montrose pastures SINC	7_LWS_CON	556190	190347	26.91	27.29	0.38	Y	20	21.57	21.20	21.41	0.21	1.05%
Great Crabbles Wood AW	237_SSSI_AW	570238	169962	24.56	24.29	-0.27	N	15	N/A	N/A	N/A	N/A	N/A
Grays Thurrock Chalk Pit SSSI	8_SSSI_CON	560951	179197	38.35	38.37	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_SSSI	569319	169607	60.77	53.50	-7.27	Y	15	51.90	48.52	44.49	-4.03	- 26.87%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Shorne and Ashenbank Woods SSSI	349_SSSI	567544	169643	24.63	23.99	-0.64	Y	15	32.31	31.44	31.01	-0.43	-2.87%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_RAM SAR	567998	173209	27.47	28.82	1.35	Y	20	17.98	17.66	18.49	0.83	4.15%
Thorndon Park SSSI	342_SSSI_AW_LWS	562979	189489	24.83	24.79	-0.04	N	15	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14200 10 AW	91_LWS_AW	562782	189264	56.22	55.77	-0.45	Y	10	53.03	48.91	48.66	-0.25	-2.50%
AW_Theme_ID14200 08 AW	84_LWS_AW	563004	189268	45.63	45.24	-0.39	Y	10	46.04	43.74	43.51	-0.23	-2.30%
AW_Theme_ID_14868 20 (A2/M2 ROUNDABOUT) AW	235_AW	570083	169537	43.97	41.63	-2.34	Y	10	45.44	42.95	41.57	-1.38	-13.80%
Swanscombe Peninsula SSSI	9_SSSI_CON	561539	172768	40.30	40.17	-0.13	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1486 860 (Shorne Woods) AW	233_SSSI_LW S_AW	567893	169720	65.36	57.23	-8.13	Y	10	54.90	50.87	46.47	-4.40	-44.00%
AW_Theme_ID_1486 883 (Object ID 9151) AW	236_AW	570036	169317	27.56	26.74	-0.82	Y	10	35.98	35.12	34.56	-0.56	-5.60%
AW_Theme_ID14869 51 AW	1_AW_SSSI_CON	567429	170972	19.95	20.00	0.05	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
AW_Theme_ID14870 77 AW	176_AW	566711	159418	44.46	45.35	0.89	Y	10	61.19	60.10	60.61	0.51	5.10%
AW_Theme_ID14870 79 AW	192_AW	569323	159174	22.76	22.84	0.08	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14870 86 AW	179_AW	567925	159727	40.29	41.00	0.71	Y	10	58.98	57.98	58.40	0.42	4.20%
AW_Theme_ID14871 06 AW	178_AW	567663	159684	44.50	45.37	0.87	Y	10	61.05	59.97	60.47	0.50	5.00%
AW_Theme_ID14986 94 AW	182_AW	573609	158289	27.30	27.41	0.11	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID14987 08 AW	10_AW_CON	573706	158300	26.54	26.63	0.09	N	10	N/A	N/A	N/A	N/A	N/A
CHADWELL WOOD (AW_Theme_ID 1119923) AW	96_AW	563871	179186	31.06	30.95	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Claylane Wood AW	228_AW	566415	170290	49.77	44.89	-4.88	Y	10	45.55	42.80	39.92	-2.88	- 28.80%
Codham Hall Wood AW	78_LWS_AW	558456	188600	48.22	48.64	0.42	Y	10	44.94	43.50	43.84	0.34	3.40%
HANGMANS WOOD (AW_Theme_ID 1119444) AW	360_LWS_AW	557699	180369	36.02	35.70	-0.32	Y	10	37.02	37.30	37.08	-0.22	-2.20%
Hobbs Hole AW	376_AW	558676	188080	38.31	39.25	0.94	Y	10	39.65	38.76	39.46	0.70	7.00%
LITTLE RYARSH WOOD	177_AW	567399	159542	36.43	37.01	0.58	Y	10	57.12	56.08	56.43	0.35	3.50%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
(AW_Theme_ID 1487103) AW													
MILL WOOD (AW_Theme_ID 1119931) AW	105_LWS_AW	563000	189311	57.49	57.04	-0.45	Y	10	53.23	49.68	49.42	-0.26	-2.60%
Peartree Wood AW	262_AW	570636	171201	30.96	32.48	1.52	Y	10	38.80	37.08	38.34	1.26	12.60%
Round Shaw (AW_Theme_ID 1119930) AW	85_LWS_AW	562767	189220	44.68	44.30	-0.38	Y	10	46.12	43.24	43.01	-0.23	-2.30%
Cat's Mede LWS	11_AW_LWS_ CON	560790	180788	32.92	33.34	0.42	Y	10	38.09	37.32	37.62	0.30	3.00%
Shorne/Brewers Woods AW	234_AW	568612	169694	68.93	60.08	-8.85	Y	15	56.36	52.66	47.95	-4.71	- 31.40%
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	27.38	25.36	-2.02	Y	15	33.58	33.09	31.70	-1.39	-9.27%
Shorne/Brewers Woods AW	13_AW_CON	568432	169858	26.86	24.98	-1.88	Y	15	33.31	32.80	31.51	-1.29	-8.60%
Court Wood, Shorne LWS	14_AW_LWS_ CON	569557	170503	22.26	21.93	-0.33	Y	10	31.59	30.60	30.29	-0.31	-3.10%
Warley Hall Wood LWS	83_LWS_AW	560148	188760	57.35	56.81	-0.54	Y	10	53.94	49.49	49.19	-0.30	-3.00%
Low Well Wood (AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	53.85	53.36	-0.49	Y	10	43.53	46.60	46.29	-0.31	-3.10%
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	26.82	27.71	0.89	Y	10	35.73	34.56	35.33	0.77	7.70%



Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Addington Meadow LWS	37_LWS	565309	159091	19.06	19.17	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	464_LWS	569428	159350	50.13	50.70	0.57	Y	20	36.29	34.95	35.15	0.20	1.00%
Ebbsfleet Marshes, Northfleet LWS	16_LWS_CON	561714	172689	38.17	38.04	-0.13	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	359_LWS	560154	188727	57.72	57.07	-0.65	Y	10	54.04	49.61	49.24	-0.37	-3.70%
Hobbs Hole LWS	82_LWS	558664	188077	42.79	43.88	1.09	Y	10	41.96	40.96	41.75	0.79	7.90%
Thordon Country Park South LWS	320_LWS	561836	189251	23.31	23.29	-0.02	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	61.46	61.24	-0.22	N	20	N/A	N/A	N/A	N/A	N/A
Blackshots Nature Area, Grays LWS	45_LWS_CON	563314	180763	38.80	38.88	0.08	N	20	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	316_LWS	558074	180050	97.37	96.34	-1.03	Y	10	33.36	39.54	39.18	-0.36	-3.60%
Mar Dyke LWS	317_LWS	558038	180023	81.48	81.13	-0.35	Y	10	31.81	34.45	34.33	-0.12	-1.20%
Mar Dyke LWS	17_LWS_CON	557669	179915	48.59	48.57	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Terrels Heath Grays LWS	383_LWS	563865	179185	30.03	29.94	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Mucking Heath LWS	321_LWS	565312	180179	33.19	33.55	0.36	Y	10	21.40	21.59	21.76	0.17	1.70%
Rainbow Shaw LWS	66_LWS	566223	179828	23.60	23.60	0.00	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Sandmartin Cliff, Chafford Hundred LWS	18_LWS_CON	560797	179205	34.95	34.95	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_LWS	558542	188551	50.36	50.98	0.62	Y	10	45.94	44.71	45.15	0.44	4.40%
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	68.70	68.20	-0.50	Y	15	49.23	53.83	53.52	-0.31	-2.07%
Little Thurrock reedbeds LWS	19_LWS_CON	563123	177772	31.34	31.37	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Little Thurrock reedbeds LWS	322_LWS	563247	177930	35.05	35.08	0.03	N	10	N/A	N/A	N/A	N/A	N/A
The Oaks LWS	46_LWS_CON	556447	192934	38.49	38.36	-0.13	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	20_LWS_CON	557952	180009	42.43	42.21	-0.22	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	21_LWS_CON	558005	180099	53.02	52.48	-0.54	Y	10	43.22	46.16	45.81	-0.35	-3.50%
Warren Gorge Chafford Hundred LWS	62_LWS	559640	179576	44.49	44.70	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Linford Pit LWS	324_LWS	566483	179828	23.53	23.53	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Low Street Pit LWS	47_LWS_CON	567090	177556	26.16	26.21	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Vange Depot LWS	576_LWS	570694	185907	27.03	27.12	0.09	N	15	N/A	N/A	N/A	N/A	N/A
Parker's Shaw LWS	4_LWS	558204	189416	25.79	26.18	0.39	Y	10	33.75	33.09	33.41	0.32	3.20%

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
All Saints Churchyard and Keepers Cottage Meadow LWS	17_LWS	563416	189417	43.63	43.65	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_LWS_CON	564980	176042	40.52	40.83	0.31	Y	20	20.04	21.01	21.17	0.16	0.80%
Lyttag Brownfield LWS	23_LWS_CON	565619	176322	28.36	28.46	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Lyttag Brownfield LWS	24_LWS_CON	565399	176330	29.36	29.42	0.06	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Centre LWS	25_LWS_CON	565894	176060	27.94	28.36	0.42	Y	20	19.63	19.10	19.35	0.25	1.25%
South Ockendon Church LWS	26_LWS_CON	559471	182945	30.25	30.29	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	28.99	29.31	0.32	Y	20	20.77	20.26	20.44	0.18	0.90%
Greater Thames Marshes NIA	28_NIA_CON	570967	186242	29.03	29.10	0.07	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	29_NIA_CON	565198	180007	29.16	29.29	0.13	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	268_NIA	563491	178086	31.51	31.39	-0.12	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	377_NIA	567073	177725	24.92	24.93	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	378_NIA	567107	177727	24.93	24.94	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	384_NIA	564609	178142	35.72	36.24	0.52	Y	20	21.78	21.60	21.89	0.29	1.45%
Barrett's Shaw LWS	7_LWS	561989	189096	54.29	53.89	-0.40	Y	10	52.47	48.46	48.24	-0.22	-2.20%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Shorne and Ashenbank Woods SSSI	264_SSSI_LW S	568380	169830	26.33	24.65	-1.68	Y	15	33.18	32.39	31.24	-1.15	-7.67%
Leybourne Lakes Etc., Snodland LWS	463_LWS	569513	159230	41.33	41.79	0.46	Y	20	33.39	32.45	32.62	0.17	0.85%
Ashenbank Woodland LWS	368_LWS	567826	169403	23.78	22.15	-1.63	Y	10	33.07	31.84	30.43	-1.41	-14.10%
Ashenbank Woodland LWS	369_LWS	567752	169611	26.32	25.48	-0.84	Y	10	33.32	32.29	31.74	-0.55	-5.50%
Ebbsfleet Marshes, Northfleet LWS	230_LWS	561760	172590	69.42	68.98	-0.44	Y	10	33.51	30.61	30.45	-0.16	-1.60%
Mar Dyke LWS	35_LWS_CON	557535	179858	64.90	64.31	-0.59	Y	10	25.62	26.82	26.60	-0.22	-2.20%
Mar Dyke LWS	36_LWS_CON	557439	179398	37.37	37.10	-0.27	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_SINC	557926	189444	47.88	51.80	3.92	Y	10	45.49	43.97	46.60	2.63	26.30%
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	34.27	35.80	1.53	Y	15	23.22	22.16	22.95	0.79	5.27%
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	34.53	36.12	1.59	Y	15	23.49	22.22	23.03	0.81	5.40%
Ockendon Railsides SINC	521_LWS	558328	184516	63.93	62.15	-1.78	Y	10	54.82	52.34	51.37	-0.97	-9.70%
Low Well Wood, South Ockendon LWS	318_LWS	557707	179995	48.85	48.54	-0.31	Y	10	37.41	38.58	38.38	-0.20	-2.00%

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Ranscombe Farm Country Park LWS	231_LWS	566345	168800	19.58	19.95	0.37	Y	10	30.60	29.88	30.24	0.36	3.60%
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	23.29	23.93	0.64	Y	10	32.18	31.79	32.35	0.56	5.60%
Ockendon Railsides SINC	39_LWS_CON	558463	184154	26.52	26.33	-0.19	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	40_LWS_CON	558293	184600	102.62	103.03	0.41	Y	10	74.57	70.47	70.85	0.38	3.80%
Ockendon Railsides SINC	41_LWS_CON	557906	185489	23.05	23.85	0.80	Y	10	32.49	32.07	32.77	0.70	7.00%
Ockendon Railsides SINC	42_LWS_CON	557901	185496	23.00	23.75	0.75	Y	10	32.46	32.05	32.71	0.66	6.60%
Veteran Tree	598_VT	566518	168700	25.57	23.68	-1.89	Y	10	35.03	33.64	32.07	-1.57	- 15.70%
Veteran Tree	432_VT	566508	168750	18.52	18.30	-0.22	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	800_VT	557898	184890	23.58	23.50	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	410_VT	568198	169490	24.82	23.73	-1.09	Y	10	33.98	32.29	31.35	-0.94	-9.40%
Veteran Tree	27_VT	568148	169440	23.01	22.22	-0.79	Y	10	32.60	31.23	30.53	-0.70	-7.00%
Veteran Tree	802_VT	575429	155503	36.86	36.90	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	718_VT	565428	170694	32.76	32.18	-0.58	Y	10	35.78	34.34	33.96	-0.38	-3.80%
Veteran Tree	428_VT	565432	170691	32.86	32.27	-0.59	Y	10	35.85	34.39	34.00	-0.39	-3.90%
Veteran Tree	719_VT	565477	170699	31.64	31.02	-0.62	Y	10	34.95	33.89	33.46	-0.43	-4.30%
Veteran Tree	720_VT	565459	170713	31.71	31.10	-0.61	Y	10	34.90	33.98	33.55	-0.43	-4.30%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Veteran Tree	721_VT	565470	170705	31.63	31.01	-0.62	Y	10	34.91	33.91	33.49	-0.42	-4.20%
Veteran Tree	723_VT	565681	170658	30.05	29.21	-0.84	Y	10	34.05	33.09	32.51	-0.58	-5.80%
Veteran Tree	803_VT	575497	155525	64.99	65.11	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	401_VT	569698	169400	26.69	25.90	-0.79	Y	10	33.11	32.19	31.64	-0.55	-5.50%
Veteran Tree	804_VT	567000	173050	31.91	33.06	1.15	Y	10	34.10	33.16	34.20	1.04	10.40%

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2028)*

*Con = Construction Scenario (2028)*

*Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{Yr}^{-1}$ )*

*The results presented in this table are at worst case receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

**Table 2.8 Modelled Nitrogen (N) Deposition for Ecological Designated Site Transect Points in Base 2016, Do-Minimum (DM) 2028 and Construction (Con) 2028 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
AW_Theme_ID1487077 AW	176_AW	566711	159418	44.46	45.35	0.89	Y	10	61.19	60.10	60.61	0.51	5.10%
AW_Theme_ID1487077 AW	176_10m	566708	159427	38.26	38.93	0.67	Y	10	58.15	57.19	57.59	0.40	4.00%
AW_Theme_ID1487077 AW	176_20m	566704	159436	34.27	34.81	0.54	Y	10	56.16	55.29	55.62	0.33	3.30%
AW_Theme_ID1487077 AW	176_30m	566700	159446	31.56	32.03	0.47	Y	10	54.77	53.98	54.27	0.29	2.90%
AW_Theme_ID1487077 AW	176_40m	566696	159455	29.56	29.96	0.40	Y	10	53.75	53.01	53.26	0.25	2.50%
AW_Theme_ID1487077 AW	176_50m	566693	159464	28.03	28.37	0.34	Y	10	52.95	52.26	52.48	0.22	2.20%
AW_Theme_ID1487077 AW	176_60m	566689	159473	26.81	27.10	0.29	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487077 AW	176_70m	566685	159483	25.80	26.08	0.28	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487077 AW	176_80m	566682	159492	24.96	25.22	0.26	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487077 AW	176_90m	566678	159501	24.27	24.49	0.22	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487077 AW	176_100m	566674	159511	23.66	23.87	0.21	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487077 AW	176_110m	566670	159520	23.13	23.33	0.20	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
AW_Theme_ID1487106 AW	178_AW	567663	159684	44.50	45.37	0.87	Y	10	61.05	59.97	60.47	0.50	5.00%
AW_Theme_ID1487106 AW	178_10m	567662	159694	38.25	38.91	0.66	Y	10	57.97	57.02	57.42	0.40	4.00%
AW_Theme_ID1487106 AW	178_20m	567660	159704	34.31	34.84	0.53	Y	10	56.00	55.15	55.47	0.32	3.20%
AW_Theme_ID1487106 AW	178_30m	567659	159714	31.60	32.03	0.43	Y	10	54.61	53.84	54.11	0.27	2.70%
AW_Theme_ID1487106 AW	178_40m	567658	159724	29.56	29.94	0.38	Y	10	53.57	52.85	53.09	0.24	2.40%
AW_Theme_ID1487106 AW	178_50m	567656	159734	28.02	28.35	0.33	Y	10	52.77	52.10	52.31	0.21	2.10%
AW_Theme_ID1487106 AW	178_60m	567655	159744	26.80	27.09	0.29	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487106 AW	178_70m	567653	159754	25.79	26.05	0.26	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487106 AW	178_80m	567652	159764	24.95	25.19	0.24	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_AW	567925	159727	40.29	41.00	0.71	Y	10	58.98	57.98	58.40	0.42	4.20%
AW_Theme_ID1487086 AW	179_10m	567925	159737	35.69	36.25	0.56	Y	10	56.68	55.80	56.13	0.33	3.30%
AW_Theme_ID1487086 AW	179_20m	567925	159747	32.58	33.05	0.47	Y	10	55.11	54.31	54.60	0.29	2.90%
AW_Theme_ID1487086 AW	179_30m	567924	159757	30.33	30.73	0.40	Y	10	53.97	53.22	53.47	0.25	2.50%



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
AW_Theme_ID1487086 AW	179_40m	567924	159767	28.65	28.98	0.33	Y	10	53.09	52.41	52.62	0.21	2.10%
AW_Theme_ID1487086 AW	179_50m	567924	159777	27.33	27.62	0.29	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_60m	567923	159787	26.24	26.52	0.28	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_70m	567923	159797	25.36	25.60	0.24	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_80m	567923	159807	24.62	24.84	0.22	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_90m	567923	159817	23.96	24.17	0.21	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_100m	567922	159827	23.42	23.62	0.20	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_110m	567922	159837	22.94	23.12	0.18	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_120m	567922	159847	22.51	22.68	0.17	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_130m	567921	159857	22.14	22.30	0.16	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_140m	567921	159867	21.79	21.94	0.15	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_150m	567921	159877	21.50	21.64	0.14	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_160m	567920	159887	21.23	21.36	0.13	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
AW_Theme_ID1487086 AW	179_170m	567920	159897	20.97	21.09	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_AW	570636	171201	30.96	32.48	1.52	Y	10	38.80	37.08	38.34	1.26	12.60%
Peartree Wood AW	262_10m	570629	171194	26.50	27.19	0.69	Y	10	35.57	34.35	34.95	0.60	6.00%
Peartree Wood AW	262_20m	570622	171187	24.98	25.38	0.40	Y	10	34.48	33.42	33.78	0.36	3.60%
Peartree Wood AW	262_30m	570614	171180	24.18	24.46	0.28	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_40m	570607	171173	23.71	23.91	0.20	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_50m	570600	171166	23.38	23.51	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_60m	570593	171159	23.14	23.24	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_70m	570586	171152	22.98	23.05	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_80m	570578	171145	22.84	22.89	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_90m	570571	171137	22.74	22.77	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_100m	570564	171130	22.66	22.66	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_110m	570557	171123	22.59	22.59	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_120m	570550	171116	22.53	22.52	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_130m	570542	171109	22.48	22.45	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_140m	570535	171102	22.45	22.41	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_150m	570528	171095	22.40	22.37	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_160m	570521	171088	22.39	22.34	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_170m	570514	171081	22.35	22.30	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_180m	570506	171074	22.34	22.28	-0.06	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Peartree Wood AW	262_190m	570499	171067	22.31	22.24	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_200m	570492	171060	22.30	22.23	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	23.04	23.70	0.66	Y	10	32.05	31.67	32.25	0.58	5.80%
Cranham Hall Shaws and Pasture SINC	3_CON_10m	557927	186610	22.84	23.07	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_20m	557917	186610	22.78	22.88	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_30m	557907	186610	22.73	22.80	0.07	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_40m	557897	186610	22.70	22.74	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_50m	557887	186610	22.66	22.69	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_60m	557877	186609	22.65	22.66	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_70m	557867	186609	22.63	22.63	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_80m	557857	186609	22.60	22.60	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_90m	557847	186609	22.58	22.58	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_100m	557837	186609	22.56	22.55	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_110m	557827	186609	22.54	22.53	-0.01	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Cranham Hall Shaws and Pasture SINC	3_CON_120m	557817	186608	22.52	22.50	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_130m	557807	186608	22.51	22.48	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_140m	557797	186608	22.49	22.47	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_150m	557787	186608	22.47	22.44	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_160m	557777	186608	22.45	22.43	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_170m	557767	186608	22.45	22.42	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_180m	557757	186607	22.42	22.39	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws and Pasture SINC	3_CON_190m	557747	186607	22.40	22.38	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_RA MSAR	567998	173209	27.47	28.82	1.35	Y	20	17.98	17.66	18.49	0.83	4.15%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_10m	567998	173219	26.16	26.78	0.62	Y	20	17.48	17.16	17.54	0.38	1.90%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_20m	567999	173229	25.77	26.15	0.38	Y	20	17.32	17.00	17.24	0.24	1.20%
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_30m	567999	173239	25.56	25.85	0.29	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_40m	567999	173249	25.44	25.66	0.22	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_50m	567999	173259	25.36	25.54	0.18	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_60m	567999	173269	25.30	25.44	0.14	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_70m	567999	173279	25.24	25.37	0.13	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_80m	568000	173289	25.21	25.32	0.11	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_90m	568000	173299	25.19	25.27	0.08	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_100m	568000	173309	25.16	25.24	0.08	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_110m	568000	173319	22.49	22.56	0.07	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_120m	568000	173329	22.48	22.54	0.06	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_130m	568000	173339	22.45	22.50	0.05	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_140m	568001	173349	22.43	22.49	0.06	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_150m	568001	173359	22.42	22.46	0.04	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_160m	568001	173369	22.40	22.44	0.04	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_170m	568001	173379	22.40	22.43	0.03	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_180m	568001	173389	22.37	22.40	0.03	N	20	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_190m	568002	173399	22.36	22.39	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	26.82	27.71	0.89	Y	10	35.73	34.56	35.33	0.77	7.70%
Court Wood, Shorne LWS	367_10m	570472	171325	24.87	25.40	0.53	Y	10	34.36	33.35	33.81	0.46	4.60%
Court Wood, Shorne LWS	367_20m	570467	171317	23.97	24.32	0.35	Y	10	33.71	32.77	33.09	0.32	3.20%
Court Wood, Shorne LWS	367_30m	570462	171308	23.42	23.67	0.25	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_40m	570457	171299	23.06	23.26	0.20	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_50m	570452	171290	22.83	22.97	0.14	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Court Wood, Shorne LWS	367_60m	570447	171282	22.64	22.76	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_70m	570442	171273	22.51	22.59	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_80m	570437	171264	22.40	22.46	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_90m	570432	171256	22.31	22.36	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_100m	570427	171247	22.25	22.27	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_110m	570422	171238	22.19	22.20	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_120m	570417	171230	22.14	22.15	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_130m	570411	171221	22.09	22.09	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_140m	570406	171212	22.08	22.07	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_150m	570401	171203	22.04	22.03	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_160m	570396	171195	22.02	21.99	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_170m	570391	171186	22.00	21.98	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_180m	570386	171177	21.99	21.95	-0.04	N	10	N/A	N/A	N/A	N/A	N/A



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				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Court Wood, Shorne LWS	367_190m	570381	171169	21.98	21.93	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole AW	376_AW	558676	188080	38.31	39.25	0.94	Y	10	39.65	38.76	39.46	0.70	7.00%
Hobbs Hole AW	376_10m	558686	188083	35.89	36.73	0.84	Y	10	38.39	37.58	38.21	0.63	6.30%
Hobbs Hole AW	376_20m	558695	188087	34.14	34.91	0.77	Y	10	37.47	36.71	37.30	0.59	5.90%
Hobbs Hole AW	376_30m	558705	188090	32.69	33.41	0.72	Y	10	36.71	35.99	36.54	0.55	5.50%
Hobbs Hole AW	376_40m	558714	188093	31.64	32.31	0.67	Y	10	36.16	35.47	35.98	0.51	5.10%
Hobbs Hole AW	376_50m	558724	188097	30.67	31.28	0.61	Y	10	35.63	34.99	35.46	0.47	4.70%
Hobbs Hole AW	376_60m	558733	188100	29.94	30.51	0.57	Y	10	35.25	34.63	35.07	0.44	4.40%
Hobbs Hole AW	376_70m	558743	188104	29.26	29.78	0.52	Y	10	34.88	34.29	34.70	0.41	4.10%
Hobbs Hole AW	376_80m	558752	188107	28.73	29.24	0.51	Y	10	34.60	34.02	34.41	0.39	3.90%
Thames Chase Forest Centre SINC	38_LWS_CO N	557968	186152	23.29	23.93	0.64	Y	10	32.18	31.79	32.35	0.56	5.60%
Thames Chase Forest Centre SINC	38_CON_10m	557978	186152	23.17	23.40	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_20m	557988	186152	23.15	23.26	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_30m	557998	186152	23.16	23.22	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_40m	558008	186152	22.47	22.50	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_50m	558018	186152	22.51	22.51	0.00	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Thames Chase Forest Centre SINC	38_CON_60m	558028	186152	22.56	22.53	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_70m	558038	186152	22.60	22.56	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_80m	558048	186152	22.63	22.59	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_90m	558058	186152	22.67	22.62	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_100 m	558068	186152	22.72	22.66	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_110 m	558078	186152	22.77	22.70	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_120 m	558088	186152	22.83	22.74	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_130 m	558098	186152	22.88	22.79	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_140 m	558108	186152	22.92	22.83	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_150 m	558118	186151	22.99	22.88	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_160 m	558128	186151	23.04	22.94	-0.10	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_170 m	558138	186151	23.10	22.98	-0.12	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	38_CON_180 m	558148	186151	23.17	23.06	-0.11	N	10	N/A	N/A	N/A	N/A	N/A

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				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Thames Chase Forest Centre SINC	38_CON_190m	558158	186151	23.24	23.11	-0.13	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_LWS	558542	188551	50.36	50.98	0.62	Y	10	45.94	44.71	45.15	0.44	4.40%
Codham Hall Woods LWS	381_10m	558544	188561	43.40	43.82	0.42	Y	10	42.38	41.27	41.59	0.32	3.20%
Codham Hall Woods LWS	381_20m	558546	188571	39.84	40.16	0.32	Y	10	40.53	39.52	39.77	0.25	2.50%
Codham Hall Woods LWS	381_30m	558548	188580	37.61	37.87	0.26	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_40m	558550	188590	36.04	36.25	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_50m	558552	188600	34.81	35.02	0.21	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_60m	558554	188610	33.84	34.02	0.18	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_70m	558557	188619	33.02	33.20	0.18	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_80m	558559	188629	32.33	32.49	0.16	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_90m	558561	188639	31.74	31.89	0.15	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_100m	558563	188649	31.20	31.33	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_110m	558565	188658	30.72	30.85	0.13	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Codham Hall Woods LWS	381_120m	558567	188668	30.28	30.41	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_130m	558569	188678	29.89	30.01	0.12	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_140m	558571	188688	29.53	29.64	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_150m	558573	188697	29.20	29.31	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_160m	558576	188707	28.88	28.99	0.11	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_170m	558578	188717	28.61	28.71	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_180m	558580	188727	28.33	28.43	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_190m	558582	188736	28.08	28.17	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_200m	558584	188746	27.84	27.94	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	41_LWS_CO N	557906	185489	23.05	23.85	0.80	Y	10	32.49	32.07	32.77	0.70	7.00%
Ockendon Railsides SINC	41_CON_10m	557916	185487	22.89	23.16	0.27	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	42_LWS_CO N	557901	185496	23.00	23.75	0.75	Y	10	32.46	32.05	32.71	0.66	6.60%
Ockendon Railsides SINC	42_CON_10m	557892	185499	22.73	22.96	0.23	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Ockendon Railsides SINC	42_CON_20m	557882	185502	22.64	22.73	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	42_CON_30m	557872	185504	22.56	22.60	0.04	N	10	N/A	N/A	N/A	N/A	N/A
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	34.27	35.80	1.53	Y	15	23.22	22.16	22.95	0.79	5.27%
A226 Gravesend Road Side Nature Reserve	447_10m	568312	172342	27.34	28.04	0.70	Y	15	20.16	19.51	19.89	0.38	2.53%
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	34.53	36.12	1.59	Y	15	23.49	22.22	23.03	0.81	5.40%
Puddle Dock Angling Centre SINC	522_LWS	559200	187078	45.25	46.74	1.49	Y	20	27.88	26.55	27.19	0.64	3.20%
Puddle Dock Angling Centre SINC	522_10m	559201	187068	33.63	33.91	0.28	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_20m	559203	187058	31.32	31.37	0.05	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_30m	559205	187048	30.36	30.29	-0.07	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_40m	559207	187039	29.80	29.68	-0.12	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_50m	559208	187029	29.45	29.28	-0.17	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_60m	559210	187019	29.19	29.00	-0.19	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_70m	559212	187009	29.00	28.79	-0.21	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Puddle Dock Angling Centre SINC	522_80m	559214	186999	28.36	28.13	-0.23	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_90m	559216	186989	28.24	28.00	-0.24	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_100m	559217	186980	28.17	27.91	-0.26	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_110m	559219	186970	28.09	27.82	-0.27	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_120m	559221	186960	28.03	27.75	-0.28	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_130m	559223	186950	27.97	27.70	-0.27	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_140m	559224	186940	27.88	27.59	-0.29	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_150m	559226	186930	27.76	27.48	-0.28	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_160m	559228	186920	27.64	27.35	-0.29	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_170m	559230	186911	27.49	27.21	-0.28	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_180m	559231	186901	27.35	27.07	-0.28	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_190m	559233	186891	27.23	26.95	-0.28	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_200m	559235	186881	27.11	26.83	-0.28	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Folkes Lane Woodland	609a_SINC	557926	189444	47.88	51.80	3.92	Y	10	45.49	43.97	46.60	2.63	26.30%
Folkes Lane Woodland	609a_10m	557918	189439	40.27	42.50	2.23	Y	10	41.50	40.20	41.78	1.58	15.80%
Folkes Lane Woodland	609a_20m	557909	189433	36.13	37.59	1.46	Y	10	39.29	38.14	39.21	1.07	10.70%
Folkes Lane Woodland	609a_30m	557901	189428	33.47	34.53	1.06	Y	10	37.85	36.81	37.61	0.80	8.00%
Folkes Lane Woodland	609a_40m	557893	189422	31.62	32.41	0.79	Y	10	36.83	35.88	36.50	0.62	6.20%
Folkes Lane Woodland	609a_50m	557884	189417	30.24	30.87	0.63	Y	10	36.06	35.18	35.68	0.50	5.00%
Folkes Lane Woodland	609a_60m	557876	189412	29.17	29.67	0.50	Y	10	35.46	34.64	35.05	0.41	4.10%
Folkes Lane Woodland	609a_70m	557867	189406	28.31	28.74	0.43	Y	10	34.98	34.21	34.56	0.35	3.50%
Folkes Lane Woodland	609a_80m	557859	189401	27.61	27.97	0.36	Y	10	34.58	33.86	34.16	0.30	3.00%
Folkes Lane Woodland	609a_90m	557851	189395	27.02	27.32	0.30	Y	10	34.25	33.56	33.81	0.25	2.50%
Folkes Lane Woodland	609a_100m	557842	189390	26.51	26.76	0.25	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_110m	557834	189384	26.07	26.30	0.23	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole LWS	82_LWS	558664	188077	42.79	43.88	1.09	Y	10	41.96	40.96	41.75	0.79	7.90%
Hobbs Hole LWS	82_10m	558674	188080	39.05	40.01	0.96	Y	10	40.03	39.13	39.84	0.71	7.10%
Hobbs Hole LWS	82_20m	558683	188083	36.46	37.31	0.85	Y	10	38.68	37.86	38.49	0.63	6.30%
Hobbs Hole LWS	82_30m	558693	188086	34.54	35.33	0.79	Y	10	37.68	36.91	37.50	0.59	5.90%
Hobbs Hole LWS	82_40m	558702	188089	33.06	33.78	0.72	Y	10	36.90	36.18	36.73	0.55	5.50%
Hobbs Hole LWS	82_50m	558712	188092	31.89	32.56	0.67	Y	10	36.28	35.60	36.11	0.51	5.10%
Hobbs Hole LWS	82_60m	558721	188096	30.92	31.56	0.64	Y	10	35.77	35.12	35.60	0.48	4.80%
Hobbs Hole LWS	82_70m	558731	188099	30.14	30.72	0.58	Y	10	35.35	34.73	35.18	0.45	4.50%
Hobbs Hole LWS	82_80m	558740	188102	29.45	30.01	0.56	Y	10	34.99	34.39	34.81	0.42	4.20%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2028	DS 2028	Change	Perceptible Change		Base 2016	DM 2028	DS 2028	Change	
Hobbs Hole LWS	82_90m	558750	188105	28.88	29.38	0.50	Y	10	34.68	34.10	34.50	0.40	4.00%
Hobbs Hole LWS	82_100m	558759	188108	28.37	28.86	0.49	Y	10	34.41	33.85	34.23	0.38	3.80%
Veteran Tree	805_VT	567133	173023	30.70	31.27	0.57	Y	10	33.35	32.40	32.91	0.51	5.10%

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2028)*

*Con = Construction Scenario (2028)*

*Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )*

*The results presented in this table are at transect receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*



**Table 2.9 Modelled Nitrogen (N) Deposition for Ecological Designated Sites in Base 2016, Do-Minimum (DM) 2029 and Construction (Con) 2029 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Hall Farm moat, paddock and St Mary Magdalene Churchyard, North Ockenden SINC	2_LWS_CON	558689	184612	24.27	24.34	0.07	N	20	N/A	N/A	N/A	N/A	N/A
North Ockendon Pit SINC	31_LWS_CON	559025	184266	21.63	21.67	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_LWS	559200	187078	44.19	44.32	0.13	N	20	N/A	N/A	N/A	N/A	N/A
Clay Tye Wood SINC	246_AW_LWS	559508	186949	21.78	21.79	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Franks Wood And Cranham Brickfields SINC	37_LWS_CON	558017	188426	54.35	54.39	0.04	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID149574 3 AW	79_AW_LWS	558346	188587	50.47	49.63	-0.84	Y	10	46.24	45.57	45.05	-0.52	-5.20%
Cranham Hall Shaws and Pasture SINC	3_LWS_CON	557937	186611	22.51	22.54	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	519_LWS	558341	185802	29.50	29.60	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	520_LWS	558686	186482	30.39	30.39	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	30a_LWS_CON	558011	185034	31.59	31.59	0.00	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Ockendon Railsides SINC	30b_LWS_CON	558064	185153	24.45	24.48	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Pot Kiln Wood and Sickle Wood SINC	32_LWS_CON	557359	188701	29.01	29.01	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Hillview SINC	4_LWS_CON	557393	188821	55.54	55.64	0.10	N	20	N/A	N/A	N/A	N/A	N/A
Fields south of Cranham Marsh SINC	33_LWS_CON	557882	185038	30.23	30.23	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Strawberry Farm Wood SINC	5_LWS_CON	556631	188978	46.40	46.50	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Tylers Common SINC	6_LWS_CON	556257	190381	25.42	25.42	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Upminster Lodge Farm Horse Field SINC	524_LWS	556627	189061	31.80	31.83	0.03	N	20	N/A	N/A	N/A	N/A	N/A
Ingrebourne Valley SINC	512_LWS	556443	192751	60.99	60.94	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Hall Lane verge and Montrose pastures SINC	7_LWS_CON	556190	190347	26.29	26.28	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
Great Crabbles Wood AW	237_SSSI_AW	570238	169962	23.99	23.89	-0.10	N	15	N/A	N/A	N/A	N/A	N/A
Grays Thurrock Chalk Pit SSSI	8_SSSI_CON	560951	179197	37.47	37.48	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_SSSI	569319	169607	59.19	56.18	-3.01	Y	15	51.90	48.09	46.33	-1.76	-11.73%

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Shorne and Ashenbank Woods SSSI	349_SSSI	567544	169643	24.04	23.75	-0.29	N	15	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI / Thames Estuary and Marshes Ramsar	31_SSSI_RAMSAR	567998	173209	26.81	27.12	0.31	Y	20	17.98	17.60	17.80	0.20	1.00%
Thorndon Park SSSI	342_SSSI_AW_LWS	562979	189489	24.26	24.25	-0.01	N	15	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420010 AW	91_LWS_AW	562782	189264	54.93	54.81	-0.12	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420008 AW	84_LWS_AW	563004	189268	44.56	44.48	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1486820 (A2/M2 ROUNDABOUT) AW	235_AW	570083	169537	42.89	41.48	-1.41	Y	10	45.44	42.69	41.81	-0.88	-8.80%
Swanscombe Peninsula SSSI	9_SSSI_CON	561539	172768	39.27	39.33	0.06	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1486860 (Shorne Woods) AW	233_SSSI_LWS_AW	567893	169720	63.73	60.83	-2.90	Y	10	54.90	50.40	48.75	-1.65	-16.50%
AW_Theme_ID_1486883 (Object ID 9151) AW	236_AW	570036	169317	26.89	26.71	-0.18	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1486951 AW	1_AW_SSSI_CON	567429	170972	19.50	19.44	-0.06	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
AW_Theme_ID148707 7 AW	176_AW	566711	159418	43.25	43.46	0.21	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148707 9 AW	192_AW	569323	159174	22.23	22.24	0.01	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148708 6 AW	179_AW	567925	159727	39.20	39.35	0.15	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID148710 6 AW	178_AW	567663	159684	43.28	43.49	0.21	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID149869 4 AW	182_AW	573609	158289	26.65	26.68	0.03	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID149870 8 AW	10_AW_CON	573706	158300	25.90	25.91	0.01	N	10	N/A	N/A	N/A	N/A	N/A
CHADWELL WOOD (AW_Theme_ID 1119923) AW	96_AW	563871	179186	30.26	30.23	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Claylane Wood AW	228_AW	566415	170290	48.49	46.72	-1.77	Y	10	45.55	42.48	41.37	-1.11	-11.10%
Codham Hall Wood AW	78_LWS_AW	558456	188600	47.08	46.23	-0.85	Y	10	44.94	43.36	42.85	-0.51	-5.10%
HANGMANS WOOD (AW_Theme_ID 1119444) AW	360_LWS_AW	557699	180369	35.10	34.92	-0.18	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole AW	376_AW	558676	188080	37.39	37.39	0.00	N	10	N/A	N/A	N/A	N/A	N/A
LITTLE RYARSH WOOD (AW_Theme_ID 1487103) AW	177_AW	567399	159542	35.47	35.60	0.13	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
MILL WOOD (AW_Theme_ID 1119931) AW	105_LWS_AW	563000	189311	56.15	56.03	-0.12	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_AW	570636	171201	30.19	30.64	0.45	Y	10	38.80	36.88	37.28	0.40	4.00%
Round Shaw (AW_Theme_ID 1119930) AW	85_LWS_AW	562767	189220	43.63	43.55	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Cat's Mede LWS	11_AW_LWS_C ON	560790	180788	32.10	32.15	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	234_AW	568612	169694	67.15	62.24	-4.91	Y	15	56.36	52.15	49.39	-2.76	-18.40%
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	26.68	26.56	-0.12	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_AW_CON	568432	169858	26.16	26.03	-0.13	N	15	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	14_AW_LWS_C ON	569557	170503	21.72	21.65	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	83_LWS_AW	560148	188760	56.05	55.88	-0.17	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood (AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	52.35	52.04	-0.31	Y	10	43.53	46.32	46.12	-0.20	-2.00%
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	26.17	26.39	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Addington Meadow LWS	37_LWS	565309	159091	18.61	18.63	0.02	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Leybourne Lakes Etc., Snodland LWS	464_LWS	569428	159350	48.88	49.01	0.13	N	20	N/A	N/A	N/A	N/A	N/A
Ebbsfleet Marshes, Northfleet LWS	16_LWS_CON	561714	172689	37.21	37.29	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	359_LWS	560154	188727	56.42	56.26	-0.16	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole LWS	82_LWS	558664	188077	41.79	41.56	-0.23	N	10	N/A	N/A	N/A	N/A	N/A
Thordon Country Park South LWS	320_LWS	561836	189251	22.79	22.80	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	59.69	59.49	-0.20	N	20	N/A	N/A	N/A	N/A	N/A
Blackshots Nature Area, Grays LWS	45_LWS_CON	563314	180763	37.77	37.41	-0.36	Y	20	23.32	22.57	22.38	-0.19	-0.95%
Mar Dyke LWS	316_LWS	558074	180050	94.83	94.16	-0.67	Y	10	33.36	39.20	38.97	-0.23	-2.30%
Mar Dyke LWS	317_LWS	558038	180023	78.99	78.66	-0.33	Y	10	31.81	34.15	34.02	-0.13	-1.30%
Mar Dyke LWS	17_LWS_CON	557669	179915	47.20	46.97	-0.23	N	10	N/A	N/A	N/A	N/A	N/A
Terrels Heath Grays LWS	383_LWS	563865	179185	29.26	29.25	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Mucking Heath LWS	321_LWS	565312	180179	32.33	32.39	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Rainbow Shaw LWS	66_LWS	566223	179828	23.08	23.07	-0.01	N	15	N/A	N/A	N/A	N/A	N/A
Sandmartin Cliff, Chafford Hundred LWS	18_LWS_CON	560797	179205	34.11	34.11	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_LWS	558542	188551	49.18	49.16	-0.02	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	66.81	66.48	-0.33	Y	15	49.23	53.44	53.24	-0.20	-1.33%
Little Thurrock reedbeds LWS	19_LWS_CON	563123	177772	30.61	30.61	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Little Thurrock reedbeds LWS	322_LWS	563247	177930	34.21	34.20	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
The Oaks LWS	46_LWS_CON	556447	192934	37.58	37.47	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	20_LWS_CON	557952	180009	41.26	41.10	-0.16	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	21_LWS_CON	558005	180099	51.55	51.21	-0.34	Y	10	43.22	45.90	45.67	-0.23	-2.30%
Warren Gorge Chafford Hundred LWS	62_LWS	559640	179576	43.36	43.33	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Linford Pit LWS	324_LWS	566483	179828	23.00	22.99	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Low Street Pit LWS	47_LWS_CON	567090	177556	25.56	25.59	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Vange Depot LWS	576_LWS	570694	185907	26.40	26.40	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Parker's Shaw LWS	4_LWS	558204	189416	25.23	25.51	0.28	N	10	N/A	N/A	N/A	N/A	N/A
All Saints Churchyard and Keepers Cottage Meadow LWS	17_LWS	563416	189417	42.69	42.65	-0.04	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_LWS_CON	564980	176042	39.41	39.59	0.18	N	20	N/A	N/A	N/A	N/A	N/A
Lyttag Brownfield LWS	23_LWS_CON	565619	176322	32.98	33.04	0.06	N	20	N/A	N/A	N/A	N/A	N/A
Lyttag Brownfield LWS	24_LWS_CON	565399	176330	34.01	34.05	0.04	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Tilbury Centre LWS	25_LWS_CON	565894	176060	32.54	32.78	0.24	N	20	N/A	N/A	N/A	N/A	N/A
South Ockendon Church LWS	26_LWS_CON	559471	182945	29.57	29.57	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	28.32	28.30	-0.02	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	28_NIA_CON	570967	186242	28.31	28.32	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	29_NIA_CON	565198	180007	28.44	28.39	-0.05	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	268_NIA	563491	178086	30.74	30.75	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	377_NIA	567073	177725	24.38	24.38	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	378_NIA	567107	177727	24.37	24.38	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	384_NIA	564609	178142	34.77	34.98	0.21	N	20	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_LWS	561989	189096	53.03	52.92	-0.11	N	10	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	264_SSSI_LWS	568380	169830	25.67	25.24	-0.43	Y	15	33.18	32.27	31.96	-0.31	-2.07%
Leybourne Lakes Etc., Snodland LWS	463_LWS	569513	159230	40.25	40.37	0.12	N	20	N/A	N/A	N/A	N/A	N/A
Ashenbank Woodland LWS	368_LWS	567826	169403	23.21	22.39	-0.82	Y	10	33.07	31.72	30.98	-0.74	-7.40%
Ashenbank Woodland LWS	369_LWS	567752	169611	25.69	25.23	-0.46	Y	10	33.32	32.18	31.84	-0.34	-3.40%



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Ebbsfleet Marshes, Northfleet LWS	230_LWS	561760	172590	67.76	67.94	0.18	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	35_LWS_CON	557535	179858	63.14	62.82	-0.32	Y	10	25.62	26.59	26.46	-0.13	-1.30%
Mar Dyke LWS	36_LWS_CON	557439	179398	36.40	36.22	-0.18	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_SINC	557926	189444	46.81	49.60	2.79	Y	10	45.49	43.85	45.63	1.78	17.80%
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	33.35	33.47	0.12	N	15	N/A	N/A	N/A	N/A	N/A
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	33.61	33.75	0.14	N	15	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	521_LWS	558328	184516	62.46	61.99	-0.47	Y	10	54.82	52.16	51.89	-0.27	-2.70%
Low Well Wood, South Ockendon LWS	318_LWS	557707	179995	47.46	47.17	-0.29	N	10	N/A	N/A	N/A	N/A	N/A
Ranscombe Farm Country Park LWS	231_LWS	566345	168800	19.13	19.48	0.35	Y	10	30.60	29.82	30.17	0.35	3.50%
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	22.77	22.80	0.03	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	39_LWS_CON	558463	184154	25.94	25.86	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	40_LWS_CON	558293	184600	100.3 6	103.49	3.13	Y	10	74.57	70.21	71.90	1.69	16.90%
Ockendon Railsides SINC	41_LWS_CON	557906	185489	22.52	22.58	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	42_LWS_CON	557901	185496	22.48	22.53	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	598_VT	566518	168700	24.94	23.46	-1.48	Y	10	35.03	33.50	32.19	-1.31	-13.10%

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2029	Con 2029	Change	Perceptible Change		Base 2016	DM 2029	Con 2029	Change	
Veteran Tree	432_VT	566508	168750	18.09	17.99	-0.10	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	800_VT	557898	184890	23.05	23.06	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	410_VT	568198	169490	24.23	23.81	-0.42	Y	10	33.98	32.14	31.77	-0.37	-3.70%
Veteran Tree	27_VT	568148	169440	22.46	22.16	-0.30	Y	10	32.60	31.11	30.84	-0.27	-2.70%
Veteran Tree	802_VT	575429	155503	35.85	35.98	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	718_VT	565428	170694	31.96	31.89	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	428_VT	565432	170691	32.08	31.99	-0.09	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	719_VT	565477	170699	30.88	30.84	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	720_VT	565459	170713	30.93	30.92	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	721_VT	565470	170705	30.86	30.83	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	723_VT	565681	170658	29.33	29.25	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	803_VT	575497	155525	62.34	63.46	1.12	Y	10	66.39	57.14	57.96	0.82	8.20%
Veteran Tree	401_VT	569698	169400	26.06	25.80	-0.26	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	804_VT	567000	173050	31.14	31.32	0.18	N	10	N/A	N/A	N/A	N/A	N/A

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2029)*

*Con = Construction Scenario (2029)*

*Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )*

*The results presented in this table are at worst case receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

**Table 2.10 Modelled Nitrogen (N) Deposition for Ecological Designated Sites in Base 2016, Do-Minimum (DM) 2030 and Construction (Con) 2030 Scenarios**

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{yr}^{-1}$ )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Hall Farm moat, paddock and St Mary Magdalene Churchyard, North Ockenden SINC	2_LWS_CON	558689	184612	23.71	23.71	0.00	N	20	N/A	N/A	N/A	N/A	N/A
North Ockendon Pit SINC	31_LWS_CON	559025	184266	21.13	21.14	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Puddle Dock Angling Centre SINC	522_LWS	559200	187078	43.08	43.06	-0.02	N	20	N/A	N/A	N/A	N/A	N/A
Clay Tye Wood SINC	246_AW_LWS	559508	186949	21.27	21.26	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Franks Wood And Cranham Brickfields SINC	37_LWS_CON	558017	188426	52.93	52.93	0.00	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1495743 AW	79_AW_LWS	558346	188587	49.18	49.15	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Cranham Hall Shaws And Pasture SINC	3_LWS_CON	557937	186611	22.00	22.00	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	519_LWS	558341	185802	28.76	28.76	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thames Chase Forest Centre SINC	520_LWS	558686	186482	29.65	29.65	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	30a_LWS_CO N	558011	185034	30.80	30.78	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	30b_LWS_CO N	558064	185153	23.87	23.87	0.00	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Pot Kiln Wood and Sickle Wood SINC	32_LWS_CON	557359	188701	28.30	28.30	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Hillview SINC	4_LWS_CON	557393	188821	54.13	54.11	-0.02	N	20	N/A	N/A	N/A	N/A	N/A
Fields south of Cranham Marsh SINC	33_LWS_CON	557882	185038	29.49	29.49	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Strawberry Farm Wood SINC	5_LWS_CON	556631	188978	45.22	45.21	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Tylers Common SINC	6_LWS_CON	556257	190381	24.79	24.78	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
Upminster Lodge Farm Horse Field SINC	524_LWS	556627	189061	31.00	30.99	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
Ingrebourne Valley SINC	512_LWS	556443	192751	59.43	59.42	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Hall Lane verge and Montrose pastures SINC	7_LWS_CON	556190	190347	25.62	25.61	-0.01	N	20	N/A	N/A	N/A	N/A	N/A
Great Crabbles Wood AW	237_SSSI_AW	570238	169962	23.41	23.42	0.01	N	15	N/A	N/A	N/A	N/A	N/A
Grays Thurrock Chalk Pit SSSI	8_SSSI_CON	560951	179197	36.59	36.61	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	389_SSSI	569319	169607	57.66	57.73	0.07	N	15	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	349_SSSI	567544	169643	23.47	23.47	0.00	N	15	N/A	N/A	N/A	N/A	N/A
South Thames Estuary and Marshes SSSI /	31_SSSI_RAM SAR	567998	173209	26.17	26.23	0.06	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Thames Estuary and Marshes Ramsar													
Thorndon Park SSSI	342_SSSI_AW_LWS	562979	189489	23.70	23.69	-0.01	N	15	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420010 AW	91_LWS_AW	562782	189264	53.52	53.50	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1420008 AW	84_LWS_AW	563004	189268	43.45	43.41	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1486820 (A2/M2 ROUNDABOUT) AW	235_AW	570083	169537	41.83	41.47	-0.36	Y	10	45.44	42.45	42.23	-0.22	-2.20%
Swanscombe Peninsula SSSI	9_SSSI_CON	561539	172768	38.28	38.26	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1486860 (Shorne Woods) AW	233_SSSI_LW S_AW	567893	169720	62.08	61.89	-0.19	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID_1486883 (Object ID 9151) AW	236_AW	570036	169317	26.24	26.30	0.06	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1486951 AW	1_AW_SSSI_C ON	567429	170972	19.04	19.03	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487077 AW	176_AW	566711	159418	42.05	42.09	0.04	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487079 AW	192_AW	569323	159174	21.70	21.70	0.00	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487086 AW	179_AW	567925	159727	38.12	38.14	0.02	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1487106 AW	178_AW	567663	159684	42.10	42.14	0.04	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
AW_Theme_ID1498694 AW	182_AW	573609	158289	26.00	26.00	0.00	N	10	N/A	N/A	N/A	N/A	N/A
AW_Theme_ID1498708 AW	10_AW_CON	573706	158300	25.26	25.26	0.00	N	10	N/A	N/A	N/A	N/A	N/A
CHADWELL WOOD (AW_Theme_ID 1119923) AW	96_AW	563871	179186	29.48	29.56	0.08	N	10	N/A	N/A	N/A	N/A	N/A
Claylane Wood AW	228_AW	566415	170290	47.28	47.45	0.17	N	10	N/A	N/A	N/A	N/A	N/A
Codham Hall Wood AW	78_LWS_AW	558456	188600	45.89	45.88	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
HANGMANS WOOD (AW_Theme_ID 1119444) AW	360_LWS_AW	557699	180369	34.19	34.19	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole AW	376_AW	558676	188080	36.48	36.48	0.00	N	10	N/A	N/A	N/A	N/A	N/A
LITTLE RYARSH WOOD (AW_Theme_ID 1487103) AW	177_AW	567399	159542	34.49	34.51	0.02	N	10	N/A	N/A	N/A	N/A	N/A
MILL WOOD (AW_Theme_ID 1119931) AW	105_LWS_AW	563000	189311	54.73	54.70	-0.03	N	10	N/A	N/A	N/A	N/A	N/A
Peartree Wood AW	262_AW	570636	171201	29.42	29.64	0.22	N	10	N/A	N/A	N/A	N/A	N/A
Round Shaw (AW_Theme_ID 1119930) AW	85_LWS_AW	562767	189220	42.55	42.53	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Cat's Mede LWS	11_AW_LWS_ CON	560790	180788	31.29	31.27	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	234_AW	568612	169694	65.42	65.42	0.00	N	15	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Shorne/Brewers Woods AW	12_AW_CON	568440	169852	26.01	26.10	0.09	N	15	N/A	N/A	N/A	N/A	N/A
Shorne/Brewers Woods AW	13_AW_CON	568432	169858	25.50	25.60	0.10	N	15	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	14_AW_LWS_CON	569557	170503	21.20	21.21	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	83_LWS_AW	560148	188760	54.65	54.61	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood (AW_Theme_ID 1505468) AW	15_AW_CON	558020	180092	50.87	50.85	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Court Wood, Shorne LWS	367_LWS_AW	570477	171334	25.51	25.60	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Addington Meadow LWS	37_LWS	565309	159091	18.16	18.16	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	464_LWS	569428	159350	47.67	47.69	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Ebbsfleet Marshes, Northfleet LWS	16_LWS_CON	561714	172689	36.31	36.30	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Warley Hall Wood LWS	359_LWS	560154	188727	55.04	54.98	-0.06	N	10	N/A	N/A	N/A	N/A	N/A
Hobbs Hole LWS	82_LWS	558664	188077	40.73	40.73	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Thordon Country Park South LWS	320_LWS	561836	189251	22.24	22.24	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Arena Essex, West Thurrock LWS	43_LWS_CON	558187	179964	57.92	57.92	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Blackshots Nature Area, Grays LWS	45_LWS_CON	563314	180763	36.75	36.36	-0.39	Y	20	23.32	22.41	22.18	-0.23	-1.15%

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Mar Dyke LWS	316_LWS	558074	180050	92.24	92.20	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	317_LWS	558038	180023	76.52	76.54	0.02	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	17_LWS_CON	557669	179915	45.82	45.82	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Terrels Heath Grays LWS	383_LWS	563865	179185	28.52	28.58	0.06	N	10	N/A	N/A	N/A	N/A	N/A
Mucking Heath LWS	321_LWS	565312	180179	31.51	31.44	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Rainbow Shaw LWS	66_LWS	566223	179828	22.56	22.55	-0.01	N	15	N/A	N/A	N/A	N/A	N/A
Sandmartin Cliff, Chafford Hundred LWS	18_LWS_CON	560797	179205	33.27	33.27	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Codham Hall Woods LWS	381_LWS	558542	188551	47.95	47.93	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Brickbarn Wood and Coombe Wood, South Ockendon LWS	44_LWS_CON	558202	180012	64.91	64.90	-0.01	N	15	N/A	N/A	N/A	N/A	N/A
Little Thurrock reedbeds LWS	19_LWS_CON	563123	177772	29.88	29.88	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Little Thurrock reedbeds LWS	322_LWS	563247	177930	33.37	33.36	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
The Oaks LWS	46_LWS_CON	556447	192934	36.65	36.65	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	20_LWS_CON	557952	180009	40.10	40.10	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	21_LWS_CON	558005	180099	50.08	50.07	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Warren Gorge Chafford Hundred LWS	62_LWS	559640	179576	42.23	42.23	0.00	N	10	N/A	N/A	N/A	N/A	N/A



Site Name	Receptor ID	X	Y	Total NOx (µg/m <sup>3</sup> )				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Linford Pit LWS	324_LWS	566483	179828	22.48	22.47	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Low Street Pit LWS	47_LWS_CON	567090	177556	24.98	24.98	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Vange Depot LWS	576_LWS	570694	185907	25.75	25.75	0.00	N	15	N/A	N/A	N/A	N/A	N/A
Parker's Shaw LWS	4_LWS	558204	189416	24.65	24.63	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
All Saints Churchyard and Keepers Cottage Meadow LWS	17_LWS	563416	189417	41.65	41.63	-0.02	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Marshes LWS	22_LWS_CON	564980	176042	38.39	38.43	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Lyttag Brownfield LWS	23_LWS_CON	565619	176322	32.19	32.21	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Lyttag Brownfield LWS	24_LWS_CON	565399	176330	33.17	33.18	0.01	N	20	N/A	N/A	N/A	N/A	N/A
Tilbury Centre LWS	25_LWS_CON	565894	176060	31.76	31.82	0.06	N	20	N/A	N/A	N/A	N/A	N/A
South Ockendon Church LWS	26_LWS_CON	559471	182945	28.87	28.85	-0.02	N	20	N/A	N/A	N/A	N/A	N/A
Arisdale Avenue LWS	27_LWS_CON	558590	182879	27.63	27.63	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	28_NIA_CON	570967	186242	27.62	27.62	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	29_NIA_CON	565198	180007	27.74	27.63	-0.11	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	268_NIA	563491	178086	29.98	30.02	0.04	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	377_NIA	567073	177725	23.83	23.83	0.00	N	20	N/A	N/A	N/A	N/A	N/A
Greater Thames Marshes NIA	378_NIA	567107	177727	23.82	23.82	0.00	N	20	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Greater Thames Marshes NIA	384_NIA	564609	178142	33.86	33.76	-0.10	N	20	N/A	N/A	N/A	N/A	N/A
Barrett's Shaw LWS	7_LWS	561989	189096	51.66	51.64	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Shorne and Ashenbank Woods SSSI	264_SSSI_LWS	568380	169830	25.03	25.02	-0.01	N	15	N/A	N/A	N/A	N/A	N/A
Leybourne Lakes Etc., Snodland LWS	463_LWS	569513	159230	39.20	39.22	0.02	N	20	N/A	N/A	N/A	N/A	N/A
Ashenbank Woodland LWS	368_LWS	567826	169403	22.63	21.99	-0.64	Y	10	33.07	31.58	31.00	-0.58	-5.80%
Ashenbank Woodland LWS	369_LWS	567752	169611	25.07	25.03	-0.04	N	10	N/A	N/A	N/A	N/A	N/A
Ebbsfleet Marshes, Northfleet LWS	230_LWS	561760	172590	66.10	66.08	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	35_LWS_CON	557535	179858	61.35	61.30	-0.05	N	10	N/A	N/A	N/A	N/A	N/A
Mar Dyke LWS	36_LWS_CON	557439	179398	35.44	35.43	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Folkes Lane Woodland	609a_SINC	557926	189444	45.62	45.60	-0.02	N	10	N/A	N/A	N/A	N/A	N/A
A226 Gravesend Road Side Nature Reserve	447_LWS	568307	172334	32.47	32.30	-0.17	N	15	N/A	N/A	N/A	N/A	N/A
A226 Gravesend Road, Chalk RNR	481_RNR	568311	172331	32.75	32.59	-0.16	N	15	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	521_LWS	558328	184516	60.95	60.95	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Low Well Wood, South Ockendon LWS	318_LWS	557707	179995	46.10	46.10	0.00	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx (µg/m³)				LCL (kg N ha <sup>-1</sup> yr <sup>-1</sup> )	Total N Deposition (kg N ha <sup>-1</sup> yr <sup>-1</sup> )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Ranscombe Farm Country Park LWS	231_LWS	566345	168800	18.68	19.04	0.36	Y	10	30.60	29.75	30.15	0.40	4.00%
Thames Chase Forest Centre SINC	38_LWS_CON	557968	186152	22.23	22.23	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	39_LWS_CON	558463	184154	25.32	25.32	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	40_LWS_CON	558293	184600	97.86	97.90	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	41_LWS_CON	557906	185489	21.98	21.98	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Ockendon Railsides SINC	42_LWS_CON	557901	185496	21.94	21.95	0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	598_VT	566518	168700	24.32	22.78	-1.54	Y	10	35.03	33.34	31.93	-1.41	-14.10%
Veteran Tree	432_VT	566508	168750	17.68	17.58	-0.10	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	800_VT	557898	184890	22.50	22.50	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	410_VT	568198	169490	23.65	23.57	-0.08	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	27_VT	568148	169440	21.93	21.86	-0.07	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	802_VT	575429	155503	35.00	34.99	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	718_VT	565428	170694	31.20	31.25	0.05	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	428_VT	565432	170691	31.30	31.34	0.04	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	719_VT	565477	170699	30.12	30.22	0.10	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	720_VT	565459	170713	30.16	30.29	0.13	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	721_VT	565470	170705	30.09	30.20	0.11	N	10	N/A	N/A	N/A	N/A	N/A

Site Name	Receptor ID	X	Y	Total NOx ( $\mu\text{g}/\text{m}^3$ )				LCL ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )	Total N Deposition ( $\text{kg N ha}^{-1} \text{ yr}^{-1}$ )				Change as % of LCL
				DM 2030	DS 2030	Change	Perceptible Change		Base 2016	DM 2030	DS 2030	Change	
Veteran Tree	723_VT	565681	170658	28.61	28.70	0.09	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	803_VT	575497	155525	60.87	60.86	-0.01	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	401_VT	569698	169400	25.42	25.42	0.00	N	10	N/A	N/A	N/A	N/A	N/A
Veteran Tree	804_VT	567000	173050	30.38	30.40	0.02	N	10	N/A	N/A	N/A	N/A	N/A

*Base = Base Year Scenario (2016)*

*DM = Do-Minimum Scenario (2030)*

*Con = Construction Scenario (2030)*

*Perceptible Change = Change in NOx greater than +/- 0.3  $\mu\text{g}/\text{m}^3$  (i.e. >1% of the Critical Level).*

*LCL = Lower Critical Load ( $\text{Kg N ha}^{-1} \text{ Yr}^{-1}$ )*

*The results presented in this table are at worst case receptor points. Nitrogen deposition is only reported for receptors with a perceptible change in NOx.*

### 3 Compliance Risk Assessment Results

**Table 3.1 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean NO<sub>2</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2025)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	24.6	17.9	21.9	23.1	23.6	0.5
Con_PCM_002	802047508	562292	178576	24.6	17.9	21.7	21.3	21.5	0.2
Con_PCM_003	802047508	562314	178598	24.6	17.9	21.9	21.6	21.9	0.3
Con_PCM_004	802056685	564475	177864	23.2	17.3	22.9	22.8	21.5	-1.3
Con_PCM_005	802056685	564412	177634	23.2	17.3	21.8	23.6	22.1	-1.5
Con_PCM_006	802056685	564425	177634	23.2	17.3	23.2	24.1	22.4	-1.7
Con_PCM_007	802016644	563657	176283	24.5	20.4	30.3	32.6	34.4	1.8
Con_PCM_008	802016644	563653	176277	24.5	20.4	29.1	31.1	32.5	1.4
Con_PCM_009	802056685	564222	175938	23.2	17.3	29.4	29.8	30.9	1.1
Con_PCM_010	802056685	564217	175932	23.2	17.3	29.2	29.6	30.6	1.0
Con_PCM_011	802016644	563865	176114	24.5	20.4	30.0	31.2	32.7	1.5
Con_PCM_012	802016644	563858	176106	24.5	20.4	28.8	29.8	30.9	1.1
Con_PCM_013	802080945	564313	175437	27.4	22.4	29.8	30.3	31.0	0.7
Con_PCM_014	802080945	564322	175435	27.4	22.4	30.0	31.2	32.2	1.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_015	802048310	564870	174035	30.8	23.6	31.3	32.0	32.2	0.2
Con_PCM_016	802048310	564879	174035	30.8	23.6	31.6	32.4	32.7	0.3
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2025					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2025					
Con_PCM_019	802074499	564762	173894	26.6	19.6	23.5	23.9	24.0	0.1
Con_PCM_020	802074499	564761	173884	26.6	19.6	23.3	24.3	24.4	0.1
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2025					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2025					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2025					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2025					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2025					
Con_PCM_026	802078186	565866	173803	Not in compliance risk assessment study area during 2025					
Con_PCM_027	802078186	565868	173811	Not in compliance risk assessment study area during 2025					
Con_PCM_028	802078186	567319	172801	27.1	20.0	18.4	19.9	19.3	-0.6
Con_PCM_029	802078186	567318	172788	27.1	20.0	17.1	18.0	17.6	-0.4
Con_PCM_030	802078186	567616	172782	27.1	20.0	19.6	21.6	20.5	-1.1
Con_PCM_031	802078186	567614	172769	27.1	20.0	18.3	20.6	19.6	-1.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_032	802081434	564400	172409	28.7	19.9	20.2	21.8	22.0	0.2
Con_PCM_033	802081434	564409	172409	28.7	19.9	21.1	23.2	23.5	0.3
Con_PCM_034	802081434	564258	171656	28.7	19.9	21.3	19.8	20.0	0.2
Con_PCM_035	802081434	564239	171660	28.7	19.9	20.3	22.3	22.6	0.3
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2025					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2025					
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2025					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2025					
Con_PCM_040	802016231	575481	155539	Not in compliance risk assessment study area during 2025					
Con_PCM_041	802016231	575475	155523	Not in compliance risk assessment study area during 2025					
Con_PCM_042	802026813	572825	169501	Not in compliance risk assessment study area during 2025					
Con_PCM_043	802026813	572836	169506	Not in compliance risk assessment study area during 2025					
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2025					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2025					
PCM_36	802006036	571876	158700	34.6	22.8	26.7	23.7	23.3	-0.4
PCM_37	802006036	572140	158548	34.6	22.8	22.8	21.0	20.8	-0.2
PCM_65	802081434	564136	171422	28.7	19.9	26.8	31.2	31.4	0.2

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2025					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2025					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*Exceedance of annual mean NO<sub>2</sub> Limit Value (40 µg/m<sup>3</sup>) highlighted in Bold*



**Table 3.2 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean NO<sub>2</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2026)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2026					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2026					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2026					
Con_PCM_004	802056685	564475	177864	23.2	16.7	22.0	21.9	21.8	-0.1
Con_PCM_005	802056685	564412	177634	23.2	16.7	21.1	22.6	22.5	-0.1
Con_PCM_006	802056685	564425	177634	23.2	16.7	22.3	23.1	23.0	-0.1
Con_PCM_007	802016644	563657	176283	24.5	20.1	29.0	31.0	31.9	0.9
Con_PCM_008	802016644	563653	176277	24.5	20.1	27.9	29.6	30.3	0.7
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2026					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2026					
Con_PCM_011	802016644	563865	176114	24.5	20.1	28.7	29.8	30.5	0.7
Con_PCM_012	802016644	563858	176106	24.5	20.1	27.7	28.6	29.1	0.5
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2026					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2026					
Con_PCM_015	802048310	564870	174035	Not in compliance risk assessment study area during 2026					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	Not in compliance risk assessment study area during 2026					
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2026					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2026					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2026					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2026					
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2026					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2026					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2026					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2026					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2026					
Con_PCM_026	802078186	565866	173803	Not in compliance risk assessment study area during 2026					
Con_PCM_027	802078186	565868	173811	Not in compliance risk assessment study area during 2026					
Con_PCM_028	802078186	567319	172801	27.1	19.3	17.7	19.0	18.4	-0.6
Con_PCM_029	802078186	567318	172788	27.1	19.3	16.6	17.4	16.9	-0.5
Con_PCM_030	802078186	567616	172782	27.1	19.3	18.8	20.6	19.4	-1.2
Con_PCM_031	802078186	567614	172769	27.1	19.3	17.6	19.7	18.7	-1.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2026					
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2026					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2026					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2026					
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2026					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2026					
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2026					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2026					
Con_PCM_040	802016231	575481	155539	23.3	15.5	20.1	18.5	18.6	0.1
Con_PCM_041	802016231	575475	155523	23.3	15.5	18.5	20.3	20.5	0.2
Con_PCM_042	802026813	572825	169501	17.7	12.6	16.2	16.5	16.5	0.0
Con_PCM_043	802026813	572836	169506	17.7	12.6	16.8	17.2	17.1	-0.1
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2026					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2026					
PCM_36	802006036	571876	158700	34.6	21.6	24.9	22.2	21.9	-0.3
PCM_37	802006036	572140	158548	34.6	21.6	21.4	19.8	19.7	-0.1
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2026					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2026					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2026					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*Exceedance of annual mean NO<sub>2</sub> Limit Value (40 µg/m<sup>3</sup>) highlighted in Bold*

**Table 3.3 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean NO<sub>2</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2027)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2027					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2027					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2027					
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2027					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2027					
Con_PCM_006	802056685	564425	177634	Not in compliance risk assessment study area during 2027					
Con_PCM_007	802016644	563657	176283	24.5	19.8	28.0	29.8	30.7	0.9
Con_PCM_008	802016644	563653	176277	24.5	19.8	27.0	28.6	29.3	0.7
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2027					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2027					
Con_PCM_011	802016644	563865	176114	24.5	19.8	27.7	28.7	29.4	0.7
Con_PCM_012	802016644	563858	176106	24.5	19.8	26.8	27.6	28.2	0.6
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2027					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2027					
Con_PCM_015	802048310	564870	174035	30.8	22.5	30.0	30.6	30.8	0.2

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	30.8	22.5	30.3	31.0	31.1	0.1
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2027					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2027					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2027					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2027					
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2027					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2027					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2027					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2027					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2027					
Con_PCM_026	802078186	565866	173803	27.1	18.6	20.6	21.9	22.0	0.1
Con_PCM_027	802078186	565868	173811	27.1	18.6	21.6	23.2	23.5	0.3
Con_PCM_028	802078186	567319	172801	27.1	18.6	17.0	18.2	18.8	0.6
Con_PCM_029	802078186	567318	172788	27.1	18.6	16.0	16.7	17.1	0.4
Con_PCM_030	802078186	567616	172782	27.1	18.6	18.1	19.7	21.4	1.7
Con_PCM_031	802078186	567614	172769	27.1	18.6	17.0	18.8	20.3	1.5

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2027					
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2027					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2027					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2027					
Con_PCM_036	802070383	572459	170088	19.6	12.9	15.0	14.5	14.6	0.1
Con_PCM_037	802070383	572523	170076	19.6	12.9	15.4	14.8	14.9	0.1
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2027					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2027					
Con_PCM_040	802016231	575481	155539	23.3	14.9	19.2	17.7	17.8	0.1
Con_PCM_041	802016231	575475	155523	23.3	14.9	17.7	19.4	19.5	0.1
Con_PCM_042	802026813	572825	169501	17.7	12.3	15.6	15.9	16.0	0.1
Con_PCM_043	802026813	572836	169506	17.7	12.3	16.1	16.5	16.6	0.1
Con_PCM_044	801070206	541254	189699	51.8	30.4	22.4	22.2	22.2	0.0
Con_PCM_045	801070206	541244	189690	51.8	30.4	22.0	22.0	22.0	0.0
PCM_36	802006036	571876	158700	34.6	20.4	23.3	20.8	20.7	-0.1
PCM_37	802006036	572140	158548	34.6	20.4	20.2	18.7	18.7	0.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean NO <sub>2</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2027					
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2027					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2027					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*Exceedance of annual mean NO<sub>2</sub> Limit Value (40 µg/m<sup>3</sup>) highlighted in Bold*



**Table 3.4 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean NO<sub>2</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2028)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2028					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2028					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2028					
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2028					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2028					
Con_PCM_006	802056685	564425	177634	Not in compliance risk assessment study area during 2028					
Con_PCM_007	802016644	563657	176283	11.7	10.5	14.6	15.8	16.3	0.5
Con_PCM_008	802016644	563653	176277	11.7	10.5	13.9	15.0	15.3	0.3
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2028					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2028					
Con_PCM_011	802016644	563865	176114	11.7	10.5	14.5	15.2	15.5	0.3
Con_PCM_012	802016644	563858	176106	11.7	10.5	13.8	14.4	14.7	0.3
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2028					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2028					
Con_PCM_015	802048310	564870	174035	11.6	10.4	12.0	12.3	12.3	0.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	11.6	10.4	12.1	12.4	12.4	0.0
Con_PCM_017	802078186	565325	173914	12.5	11.3	13.3	13.2	13.2	0.0
Con_PCM_018	802078186	565332	173926	12.5	11.3	13.6	14.2	14.4	0.2
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2028					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2028					
Con_PCM_021	802078186	565400	173877	12.5	11.3	13.3	13.2	13.2	0.0
Con_PCM_022	802078186	565413	173896	12.5	11.3	13.6	13.3	13.4	0.1
Con_PCM_023	802078186	565686	173829	12.5	11.3	13.4	13.1	13.1	0.0
Con_PCM_024	802078186	565591	173812	12.5	11.3	13.1	12.9	13.0	0.1
Con_PCM_025	802078186	565596	173827	12.5	11.3	13.6	14.3	14.4	0.1
Con_PCM_026	802078186	565866	173803	12.5	11.3	13.1	13.6	13.7	0.1
Con_PCM_027	802078186	565868	173811	12.5	11.3	13.5	14.2	14.4	0.2
Con_PCM_028	802078186	567319	172801	12.5	11.3	12.3	12.9	13.2	0.3
Con_PCM_029	802078186	567318	172788	12.5	11.3	11.8	12.1	12.3	0.2
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	13.3	0.4
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.9	0.3

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2028					
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2028					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2028					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2028					
Con_PCM_036	802070383	572459	170088	U	U	12.2	12.0	12.0	0.0
Con_PCM_037	802070383	572523	170076	U	U	12.3	12.1	12.2	0.1
Con_PCM_038	802026105	573028	169329	13.5	12.3	16.8	18.2	18.2	0.0
Con_PCM_039	802026105	573026	169311	13.5	12.3	15.7	16.4	16.4	0.0
Con_PCM_040	802016231	575481	155539	Not in compliance risk assessment study area during 2028					
Con_PCM_041	802016231	575475	155523	Not in compliance risk assessment study area during 2028					
Con_PCM_042	802026813	572825	169501	12.3	11.1	12.9	13.0	13.0	0.0
Con_PCM_043	802026813	572836	169506	12.3	11.1	13.1	13.2	13.3	0.1
Con_PCM_044	801070206	541254	189699	14	12.3	14.2	14.1	14.2	0.1
Con_PCM_045	801070206	541244	189690	14	12.3	14.0	14.0	14.1	0.1
PCM_36	802006036	571876	158700	12.7	11.4	14.7	14.1	14.2	0.1
PCM_37	802006036	572140	158548	12.7	11.4	13.8	13.5	13.5	0.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2028					
PCM_77	802026105	573247	169306	13.5	12.3	16.6	18.1	18.0	-0.1
PCM_78	802026105	573247	169314	13.5	12.3	17.6	19.7	19.6	-0.1

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

*U = Unavailable in the Defra PCM PM 2020: 2018 Reference Year dataset*

*2026 to 2029 PCM data has been interpolated*

**Table 3.5 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean NO<sub>2</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2029)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2029					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2029					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2029					
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2029					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2029					
Con_PCM_006	802056685	564425	177634	Not in compliance risk assessment study area during 2029					
Con_PCM_007	802016644	563657	176283	Not in compliance risk assessment study area during 2029					
Con_PCM_008	802016644	563653	176277	Not in compliance risk assessment study area during 2029					
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2029					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2029					
Con_PCM_011	802016644	563865	176114	Not in compliance risk assessment study area during 2029					
Con_PCM_012	802016644	563858	176106	Not in compliance risk assessment study area during 2029					
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2029					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2029					
Con_PCM_015	802048310	564870	174035	Not in compliance risk assessment study area during 2029					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	Not in compliance risk assessment study area during 2029					
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2029					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2029					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2029					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2029					
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2029					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2029					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2029					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2029					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2029					
Con_PCM_026	802078186	565866	173803	Not in compliance risk assessment study area during 2029					
Con_PCM_027	802078186	565868	173811	Not in compliance risk assessment study area during 2029					
Con_PCM_028	802078186	567319	172801	12.5	11.3	12.3	12.9	13.0	0.1
Con_PCM_029	802078186	567318	172788	12.5	11.3	11.8	12.2	12.2	0.0
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	13.0	0.1
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.7	0.1

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2029					
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2029					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2029					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2029					
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2029					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2029					
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2029					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2029					
Con_PCM_040	802016231	575481	155539	11.7	10.6	13.8	13.2	13.2	0.0
Con_PCM_041	802016231	575475	155523	11.7	10.6	13.2	13.9	13.9	0.0
Con_PCM_042	802026813	572825	169501	Not in compliance risk assessment study area during 2029					
Con_PCM_043	802026813	572836	169506	Not in compliance risk assessment study area during 2029					
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2029					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2029					
PCM_36	802006036	571876	158700	12.7	11.4	14.7	14.1	14.1	0.0
PCM_37	802006036	572140	158548	12.7	11.4	13.8	13.5	13.5	0.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2029					
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2029					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2029					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

*2026 to 2029 PCM data has been interpolated*



**Table 3.6 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean NO<sub>2</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2030)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2030					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2030					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2030					
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2030					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2030					
Con_PCM_006	802056685	564425	177634	Not in compliance risk assessment study area during 2030					
Con_PCM_007	802016644	563657	176283	Not in compliance risk assessment study area during 2030					
Con_PCM_008	802016644	563653	176277	Not in compliance risk assessment study area during 2030					
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2030					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2030					
Con_PCM_011	802016644	563865	176114	Not in compliance risk assessment study area during 2030					
Con_PCM_012	802016644	563858	176106	Not in compliance risk assessment study area during 2030					
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2030					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2030					
Con_PCM_015	802048310	564870	174035	Not in compliance risk assessment study area during 2030					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	Not in compliance risk assessment study area during 2030					
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2030					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2030					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2030					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2030					
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2030					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2030					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2030					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2030					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2030					
Con_PCM_026	802078186	565866	173803	Not in compliance risk assessment study area during 2030					
Con_PCM_027	802078186	565868	173811	Not in compliance risk assessment study area during 2030					
Con_PCM_028	802078186	567319	172801	Not in compliance risk assessment study area during 2030					
Con_PCM_029	802078186	567318	172788	Not in compliance risk assessment study area during 2030					
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	12.9	0.0
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.6	0.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2030					
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2030					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2030					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2030					
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2030					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2030					
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2030					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2030					
Con_PCM_040	802016231	575481	155539	Not in compliance risk assessment study area during 2030					
Con_PCM_041	802016231	575475	155523	Not in compliance risk assessment study area during 2030					
Con_PCM_042	802026813	572825	169501	Not in compliance risk assessment study area during 2030					
Con_PCM_043	802026813	572836	169506	Not in compliance risk assessment study area during 2030					
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2030					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2030					
PCM_36	802006036	571876	158700	12.7	11.4	14.7	14.1	14.1	0.0
PCM_37	802006036	572140	158548	12.7	11.4	13.8	13.5	13.5	0.0
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2030					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2030					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2030					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

**Table 3.7 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean PM<sub>2.5</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2025)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	12.1	10.8	12.5	12.9	13.1	0.2
Con_PCM_002	802047508	562292	178576	12.1	10.8	12.5	12.4	12.4	0.0
Con_PCM_003	802047508	562314	178598	12.1	10.8	12.5	12.4	12.5	0.1

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_004	802056685	564475	177864	11.3	10.1	12.4	12.4	12.0	-0.4
Con_PCM_005	802056685	564412	177634	11.3	10.1	12.1	12.6	12.2	-0.4
Con_PCM_006	802056685	564425	177634	11.3	10.1	12.5	12.8	12.3	-0.5
Con_PCM_007	802016644	563657	176283	11.7	10.5	14.6	15.9	16.6	0.7
Con_PCM_008	802016644	563653	176277	11.7	10.5	13.9	15.0	15.6	0.6
Con_PCM_009	802056685	564222	175938	11.3	10.1	12.0	12.1	12.5	0.4
Con_PCM_010	802056685	564217	175932	11.3	10.1	11.9	12.1	12.4	0.3
Con_PCM_011	802016644	563865	176114	11.7	10.5	14.5	15.2	15.8	0.6
Con_PCM_012	802016644	563858	176106	11.7	10.5	13.8	14.4	14.9	0.5
Con_PCM_013	802080945	564313	175437	11.2	9.9	12.1	12.2	12.5	0.3
Con_PCM_014	802080945	564322	175435	11.2	9.9	12.1	12.5	12.8	0.3
Con_PCM_015	802048310	564870	174035	11.6	10.4	12.0	12.3	12.3	0.0
Con_PCM_016	802048310	564879	174035	11.6	10.4	12.1	12.4	12.4	0.0
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2025					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2025					
Con_PCM_019	802074499	564762	173894	13	11.7	13.7	13.8	13.8	0.0
Con_PCM_020	802074499	564761	173884	13	11.7	13.6	13.9	14.0	0.1

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2025					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2025					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2025					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2025					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2025					
Con_PCM_026	802078186	565866	173803	Not in compliance risk assessment study area during 2025					
Con_PCM_027	802078186	565868	173811	Not in compliance risk assessment study area during 2025					
Con_PCM_028	802078186	567319	172801	12.5	11.3	12.3	12.8	12.6	-0.2
Con_PCM_029	802078186	567318	172788	12.5	11.3	11.8	12.1	12.0	-0.1
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	12.6	-0.3
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.3	-0.3
Con_PCM_032	802081434	564400	172409	12.8	11.5	13.7	14.3	14.4	0.1
Con_PCM_033	802081434	564409	172409	12.8	11.5	14.1	15.0	15.0	0.0
Con_PCM_034	802081434	564258	171656	12.8	11.5	14.3	13.7	13.8	0.1
Con_PCM_035	802081434	564239	171660	12.8	11.5	14.0	14.7	14.8	0.1
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2025					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2025					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2025 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2025					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2025					
Con_PCM_040	802016231	575481	155539	Not in compliance risk assessment study area during 2025					
Con_PCM_041	802016231	575475	155523	Not in compliance risk assessment study area during 2025					
Con_PCM_042	802026813	572825	169501	Not in compliance risk assessment study area during 2025					
Con_PCM_043	802026813	572836	169506	Not in compliance risk assessment study area during 2025					
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2025					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2025					
PCM_36	802006036	571876	158700	12.7	11.3	14.7	14.1	14.1	0.0
PCM_37	802006036	572140	158548	12.7	11.3	13.8	13.5	13.5	0.0
PCM_65	802081434	564136	171422	12.8	11.5	15.6	17.1	17.2	0.1
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2025					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2025					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*



**Table 3.8 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean PM<sub>2.5</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2026)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2026					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2026					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2026					
Con_PCM_004	802056685	564475	177864	11.3	10.1	12.4	12.4	12.4	0.0
Con_PCM_005	802056685	564412	177634	11.3	10.1	12.1	12.6	12.6	0.0
Con_PCM_006	802056685	564425	177634	11.3	10.1	12.5	12.8	12.8	0.0
Con_PCM_007	802016644	563657	176283	11.7	10.5	14.5	15.7	16.2	0.5
Con_PCM_008	802016644	563653	176277	11.7	10.5	13.8	14.9	15.3	0.4
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2026					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2026					
Con_PCM_011	802016644	563865	176114	11.7	10.5	14.4	15.1	15.5	0.4
Con_PCM_012	802016644	563858	176106	11.7	10.5	13.8	14.3	14.6	0.3
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2026					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2026					
Con_PCM_015	802048310	564870	174035	Not in compliance risk assessment study area during 2026					



Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	Not in compliance risk assessment study area during 2026					
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2026					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2026					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2026					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2026					
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2026					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2026					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2026					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2026					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2026					
Con_PCM_026	802078186	565866	173803	Not in compliance risk assessment study area during 2026					
Con_PCM_027	802078186	565868	173811	Not in compliance risk assessment study area during 2026					
Con_PCM_028	802078186	567319	172801	12.5	11.3	12.3	12.9	12.6	-0.3
Con_PCM_029	802078186	567318	172788	12.5	11.3	11.8	12.1	12.0	-0.1
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	12.5	-0.4
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.3	-0.3
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2026					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2026					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2026					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2026					
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2026					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2026					
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2026					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2026					
Con_PCM_040	802016231	575481	155539	11.7	10.5	13.8	13.2	13.2	0.0
Con_PCM_041	802016231	575475	155523	11.7	10.5	13.2	13.9	13.9	0.0
Con_PCM_042	802026813	572825	169501	12.3	11.1	12.8	12.9	12.9	0.0
Con_PCM_043	802026813	572836	169506	12.3	11.1	13.0	13.2	13.2	0.0
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2026					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2026					
PCM_36	802006036	571876	158700	12.7	11.4	14.7	14.1	14.1	0.0
PCM_37	802006036	572140	158548	12.7	11.4	13.8	13.5	13.5	0.0
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2026					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2026 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2026					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2026					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

*2026 to 2029 PCM data has been interpolated*

**Table 3.9 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean PM<sub>2.5</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2027)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2027					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2027					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2027					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2027					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2027					
Con_PCM_006	802056685	564425	177634	Not in compliance risk assessment study area during 2027					
Con_PCM_007	802016644	563657	176283	11.7	10.5	14.5	15.7	16.3	0.6
Con_PCM_008	802016644	563653	176277	11.7	10.5	13.8	14.9	15.4	0.5
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2027					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2027					
Con_PCM_011	802016644	563865	176114	11.7	10.5	14.4	15.1	15.6	0.5
Con_PCM_012	802016644	563858	176106	11.7	10.5	13.8	14.3	14.7	0.4
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2027					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2027					
Con_PCM_015	802048310	564870	174035	11.6	10.4	12.0	12.3	12.3	0.0
Con_PCM_016	802048310	564879	174035	11.6	10.4	12.1	12.4	12.4	0.0
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2027					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2027					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2027					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2027					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2027					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2027					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2027					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2027					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2027					
Con_PCM_026	802078186	565866	173803	12.5	11.3	13.1	13.6	13.7	0.1
Con_PCM_027	802078186	565868	173811	12.5	11.3	13.5	14.2	14.3	0.1
Con_PCM_028	802078186	567319	172801	12.5	11.3	12.3	12.9	13.1	0.2
Con_PCM_029	802078186	567318	172788	12.5	11.3	11.8	12.1	12.3	0.2
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	13.2	0.3
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.8	0.2
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2027					
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2027					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2027					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2027					
Con_PCM_036	802070383	572459	170088	U	U	12.2	12.0	12.0	0.0
Con_PCM_037	802070383	572523	170076	U	U	12.3	12.1	12.1	0.0

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2027 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2027					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2027					
Con_PCM_040	802016231	575481	155539	11.7	10.5	13.8	13.2	13.2	0.0
Con_PCM_041	802016231	575475	155523	11.7	10.5	13.2	13.9	13.9	0.0
Con_PCM_042	802026813	572825	169501	12.3	11.1	12.9	12.9	13.0	0.1
Con_PCM_043	802026813	572836	169506	12.3	11.1	13.0	13.2	13.2	0.0
Con_PCM_044	801070206	541254	189699	14	12.3	14.2	14.1	14.2	0.1
Con_PCM_045	801070206	541244	189690	14	12.3	14.1	14.0	14.1	0.1
PCM_36	802006036	571876	158700	12.7	11.4	14.7	14.1	14.1	0.0
PCM_37	802006036	572140	158548	12.7	11.4	13.8	13.5	13.5	0.0
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2027					
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2027					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2027					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

*U = Unavailable in the Defra PCM PM 2020: 2018 Reference Year dataset*

*2026 to 2029 PCM data has been interpolated*

**Table 3.10 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean PM<sub>2.5</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2028)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2028					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2028					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2028					
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2028					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2028					
Con_PCM_006	802056685	564425	177634	Not in compliance risk assessment study area during 2028					
Con_PCM_007	802016644	563657	176283	11.7	10.5	14.6	15.8	16.3	0.5
Con_PCM_008	802016644	563653	176277	11.7	10.5	13.9	15.0	15.3	0.3
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2028					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2028					
Con_PCM_011	802016644	563865	176114	11.7	10.5	14.5	15.2	15.5	0.3
Con_PCM_012	802016644	563858	176106	11.7	10.5	13.8	14.4	14.7	0.3
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2028					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2028					
Con_PCM_015	802048310	564870	174035	11.6	10.4	12.0	12.3	12.3	0.0



Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	11.6	10.4	12.1	12.4	12.4	0.0
Con_PCM_017	802078186	565325	173914	12.5	11.3	13.3	13.2	13.2	0.0
Con_PCM_018	802078186	565332	173926	12.5	11.3	13.6	14.2	14.4	0.2
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2028					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2028					
Con_PCM_021	802078186	565400	173877	12.5	11.3	13.3	13.2	13.2	0.0
Con_PCM_022	802078186	565413	173896	12.5	11.3	13.6	13.3	13.4	0.1
Con_PCM_023	802078186	565686	173829	12.5	11.3	13.4	13.1	13.1	0.0
Con_PCM_024	802078186	565591	173812	12.5	11.3	13.1	12.9	13.0	0.1
Con_PCM_025	802078186	565596	173827	12.5	11.3	13.6	14.3	14.4	0.1
Con_PCM_026	802078186	565866	173803	12.5	11.3	13.1	13.6	13.7	0.1
Con_PCM_027	802078186	565868	173811	12.5	11.3	13.5	14.2	14.4	0.2
Con_PCM_028	802078186	567319	172801	12.5	11.3	12.3	12.9	13.2	0.3
Con_PCM_029	802078186	567318	172788	12.5	11.3	11.8	12.1	12.3	0.2
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	13.3	0.4
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.9	0.3
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2028					



Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2028					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2028					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2028					
Con_PCM_036	802070383	572459	170088	U	U	12.2	12.0	12.0	0.0
Con_PCM_037	802070383	572523	170076	U	U	12.3	12.1	12.2	0.1
Con_PCM_038	802026105	573028	169329	13.5	12.2	16.8	18.2	18.2	0.0
Con_PCM_039	802026105	573026	169311	13.5	12.2	15.7	16.4	16.4	0.0
Con_PCM_040	802016231	575481	155539	Not in compliance risk assessment study area during 2028					
Con_PCM_041	802016231	575475	155523	Not in compliance risk assessment study area during 2028					
Con_PCM_042	802026813	572825	169501	12.3	11.1	12.9	13.0	13.0	0.0
Con_PCM_043	802026813	572836	169506	12.3	11.1	13.1	13.2	13.3	0.1
Con_PCM_044	801070206	541254	189699	14	12.3	14.2	14.1	14.2	0.1
Con_PCM_045	801070206	541244	189690	14	12.3	14.0	14.0	14.1	0.1
PCM_36	802006036	571876	158700	12.7	11.3	14.7	14.1	14.2	0.1
PCM_37	802006036	572140	158548	12.7	11.3	13.8	13.5	13.5	0.0
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2028					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2028 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_77	802026105	573247	169306	13.5	12.2	16.6	18.1	18.0	-0.1
PCM_78	802026105	573247	169314	13.5	12.2	17.6	19.7	19.6	-0.1

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

*U = Unavailable in the Defra PCM PM 2020: 2018 Reference Year dataset*

**Table 3.11 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean PM<sub>2.5</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2029)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2029					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2029					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2029					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2029					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2029					
Con_PCM_006	802056685	564425	177634	Not in compliance risk assessment study area during 2029					
Con_PCM_007	802016644	563657	176283	Not in compliance risk assessment study area during 2029					
Con_PCM_008	802016644	563653	176277	Not in compliance risk assessment study area during 2029					
Con_PCM_009	802056685	564222	175938	Not in compliance risk assessment study area during 2029					
Con_PCM_010	802056685	564217	175932	Not in compliance risk assessment study area during 2029					
Con_PCM_011	802016644	563865	176114	Not in compliance risk assessment study area during 2029					
Con_PCM_012	802016644	563858	176106	Not in compliance risk assessment study area during 2029					
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2029					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2029					
Con_PCM_015	802048310	564870	174035	Not in compliance risk assessment study area during 2029					
Con_PCM_016	802048310	564879	174035	Not in compliance risk assessment study area during 2029					
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2029					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2029					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2029					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2029					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2029					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2029					
Con_PCM_023	802078186	565686	173829	Not in compliance risk assessment study area during 2029					
Con_PCM_024	802078186	565591	173812	Not in compliance risk assessment study area during 2029					
Con_PCM_025	802078186	565596	173827	Not in compliance risk assessment study area during 2029					
Con_PCM_026	802078186	565866	173803	Not in compliance risk assessment study area during 2029					
Con_PCM_027	802078186	565868	173811	Not in compliance risk assessment study area during 2029					
Con_PCM_028	802078186	567319	172801	12.5	11.3	12.3	12.9	13.0	0.1
Con_PCM_029	802078186	567318	172788	12.5	11.3	11.8	12.2	12.2	0.0
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	13.0	0.1
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.7	0.1
Con_PCM_032	802081434	564400	172409	Not in compliance risk assessment study area during 2029					
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2029					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2029					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2029					
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2029					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2029					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2029 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2029					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2029					
Con_PCM_040	802016231	575481	155539	11.7	10.5	13.8	13.2	13.2	0.0
Con_PCM_041	802016231	575475	155523	11.7	10.5	13.2	13.9	13.9	0.0
Con_PCM_042	802026813	572825	169501	Not in compliance risk assessment study area during 2029					
Con_PCM_043	802026813	572836	169506	Not in compliance risk assessment study area during 2029					
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2029					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2029					
PCM_36	802006036	571876	158700	12.7	11.3	14.7	14.1	14.1	0.0
PCM_37	802006036	572140	158548	12.7	11.3	13.8	13.5	13.5	0.0
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2029					
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2029					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2029					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

**Table 3.12 Pollution Climate Mapping (PCM) Model and Corresponding Project Modelled Annual Mean PM<sub>2.5</sub> Concentrations for Do-Minimum (DM) and Construction (Con) Scenario (2030)**

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_001	802047508	562306	178577	Not in compliance risk assessment study area during 2030					
Con_PCM_002	802047508	562292	178576	Not in compliance risk assessment study area during 2030					
Con_PCM_003	802047508	562314	178598	Not in compliance risk assessment study area during 2030					
Con_PCM_004	802056685	564475	177864	Not in compliance risk assessment study area during 2030					
Con_PCM_005	802056685	564412	177634	Not in compliance risk assessment study area during 2030					
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Con_PCM_012	802016644	563858	176106	Not in compliance risk assessment study area during 2030					
Con_PCM_013	802080945	564313	175437	Not in compliance risk assessment study area during 2030					
Con_PCM_014	802080945	564322	175435	Not in compliance risk assessment study area during 2030					
Con_PCM_015	802048310	564870	174035	Not in compliance risk assessment study area during 2030					

Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_016	802048310	564879	174035	Not in compliance risk assessment study area during 2030					
Con_PCM_017	802078186	565325	173914	Not in compliance risk assessment study area during 2030					
Con_PCM_018	802078186	565332	173926	Not in compliance risk assessment study area during 2030					
Con_PCM_019	802074499	564762	173894	Not in compliance risk assessment study area during 2030					
Con_PCM_020	802074499	564761	173884	Not in compliance risk assessment study area during 2030					
Con_PCM_021	802078186	565400	173877	Not in compliance risk assessment study area during 2030					
Con_PCM_022	802078186	565413	173896	Not in compliance risk assessment study area during 2030					
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Con_PCM_029	802078186	567318	172788	Not in compliance risk assessment study area during 2030					
Con_PCM_030	802078186	567616	172782	12.5	11.3	12.3	12.9	12.9	0.0
Con_PCM_031	802078186	567614	172769	12.5	11.3	11.9	12.6	12.6	0.0
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Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
Con_PCM_033	802081434	564409	172409	Not in compliance risk assessment study area during 2030					
Con_PCM_034	802081434	564258	171656	Not in compliance risk assessment study area during 2030					
Con_PCM_035	802081434	564239	171660	Not in compliance risk assessment study area during 2030					
Con_PCM_036	802070383	572459	170088	Not in compliance risk assessment study area during 2030					
Con_PCM_037	802070383	572523	170076	Not in compliance risk assessment study area during 2030					
Con_PCM_038	802026105	573028	169329	Not in compliance risk assessment study area during 2030					
Con_PCM_039	802026105	573026	169311	Not in compliance risk assessment study area during 2030					
Con_PCM_040	802016231	575481	155539	Not in compliance risk assessment study area during 2030					
Con_PCM_041	802016231	575475	155523	Not in compliance risk assessment study area during 2030					
Con_PCM_042	802026813	572825	169501	Not in compliance risk assessment study area during 2030					
Con_PCM_043	802026813	572836	169506	Not in compliance risk assessment study area during 2030					
Con_PCM_044	801070206	541254	189699	Not in compliance risk assessment study area during 2030					
Con_PCM_045	801070206	541244	189690	Not in compliance risk assessment study area during 2030					
PCM_36	802006036	571876	158700	12.7	11.4	14.7	14.1	14.1	0.0
PCM_37	802006036	572140	158548	12.7	11.4	13.8	13.5	13.5	0.0
PCM_65	802081434	564136	171422	Not in compliance risk assessment study area during 2030					



Receptor ID	PCM Census ID	Qualifying Feature OS Grid Ref (m)		Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )					
		X	Y	2018 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	2030 PCM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	4m PCM Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project DM Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PCM Qualifying Feature Project Con Annual Mean PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Change (Con – DM)
PCM_77	802026105	573247	169306	Not in compliance risk assessment study area during 2030					
PCM_78	802026105	573247	169314	Not in compliance risk assessment study area during 2030					

*Change is Con (Construction phase) concentration minus DM (Do-Minimum) concentration*

*PM<sub>2.5</sub> concentration calculated from modelled road traffic PM<sub>10</sub> concentration plus background PM<sub>2.5</sub> concentration*

*Exceedance of annual mean PM<sub>2.5</sub> Limit Value (20 µg/m<sup>3</sup>) highlighted in Bold*

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