

The background is a vibrant yellow color. It is decorated with several abstract geometric shapes in shades of blue, teal, and white. These shapes include circles, semi-circles, and rounded rectangles, some of which are partially cut off by the edges of the page. The overall aesthetic is modern and clean.

## Appendix A21.3

### Air Quality Cumulative Modelling Results

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## Contents

<b>Appendix A21.3: Air Quality Cumulative Modelling Results.....</b>	<b>1</b>
<b>1. Construction Traffic Assessment.....</b>	<b>1</b>
1.1 'Do Minimum' Scenario.....	1
1.2 'Do Something' Scenario .....	12
1.3 Comparison of Do Something with Do Minimum .....	23
<b>2. Operational Traffic Assessment .....</b>	<b>34</b>
2.1 'Do Minimum' Scenario.....	34
2.2 'Do Something' Scenario .....	45
2.3 Comparison of Do Something with Do Minimum .....	56
<b>3. Design Traffic Assessment .....</b>	<b>67</b>
3.1 Do Minimum' Scenario .....	67
3.2 'Do Something' Scenario .....	78
3.3 Comparison of Do Something with Do Minimum .....	89

## Appendix A21.3: Air Quality Cumulative Modelling Results

This Appendix provides all results produced by the detailed modelling of the local air quality traffic impacts associated with the cumulative Construction and Operational Phases of the Ballymun / Finglas to City Centre Core Bus Corridor Scheme (the Proposed Scheme).

### 1. Construction Traffic Assessment

#### 1.1 'Do Minimum' Scenario

Predicted annual mean concentrations of nitrogen dioxide (NO<sub>2</sub>), and particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>) and the number of exceedances of the 24-hour PM<sub>10</sub> limit value objective, at all modelled existing air quality sensitive receptors in the cumulative 2024 DM (Do Minimum) scenario are listed in Table 1.1. Locations of these receptors are shown in Figure 7.6 to Figure 7.9 in Volume 3 of this EIAR.

**Table 1.1: Predicted 2024 Do Minimum Cumulative Construction Pollutant Statistics At All Modelled Receptor Locations**

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m <sup>3</sup> )			No. of PM <sub>10</sub> days > 50µg/m <sup>3</sup>
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ1	715367,737143	28.3	15.1	10.7	<1
AQ2	715405,737202	25.6	14.7	10.5	<1
AQ3	715087,736553	39.7	16.9	11.8	1
AQ4	715079,736527	39.0	16.7	11.7	1
AQ5	715066,736570	42.6	17.3	12.0	1
AQ6	715013,736516	41.6	17.0	11.9	1
AQ7	715127,736243	23.0	14.4	10.3	<1
AQ8	714992,736243	35.9	16.2	11.3	1
AQ9	715019,736244	47.3	17.9	12.5	2
AQ10	714997,736266	37.3	16.3	11.5	1
AQ11	715036,736390	54.1	17.2	12.0	1
AQ12	715005,736359	42.1	16.1	11.3	1
AQ13	715043,736434	48.7	16.9	11.9	1
AQ14	715039,736413	52.6	17.1	12.0	1
AQ15	715042,736487	46.7	17.4	12.1	1
AQ16	715031,736487	46.6	17.2	12.0	1
AQ17	715063,736482	46.9	17.5	12.2	1
AQ18	715013,736478	40.2	16.3	11.5	1
AQ19	715007,736458	36.7	15.8	11.1	1
AQ20	714991,734794	24.9	14.7	10.5	<1
AQ21	714973,734731	47.8	18.6	12.9	2
AQ22	715015,734796	24.6	14.7	10.4	<1
AQ23	715042,734747	48.3	18.9	13.0	2
AQ24	715021,734710	43.4	17.7	12.3	1
AQ25	714966,734791	26.5	14.9	10.6	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ26	714967,734805	25.9	14.9	10.5	<1
AQ27	714963,734840	26.3	14.9	10.6	<1
AQ28	714879,734648	46.9	18.3	12.6	2
AQ29	714933,734823	35.9	16.3	11.4	1
AQ30	714962,734854	25.7	14.8	10.5	<1
AQ31	714922,734731	39.5	17.0	11.8	1
AQ32	714879,734757	39.6	16.7	11.7	1
AQ33	714886,734787	40.5	16.8	11.8	1
AQ34	714868,734720	57.5	19.8	13.6	3
AQ35	714934,734702	38.0	16.8	11.7	1
AQ36	714861,734526	39.3	16.9	11.8	1
AQ37	715081,734346	30.4	15.4	10.8	<1
AQ38	715098,734328	23.5	14.5	10.3	<1
AQ39	714878,734543	47.2	18.2	12.6	2
AQ40	714855,734461	34.5	16.0	11.3	1
AQ41	714882,734463	38.8	16.6	11.7	1
AQ42	715090,734382	24.0	14.5	10.3	<1
AQ43	714878,734485	49.7	18.5	12.8	2
AQ44	714879,734603	45.2	17.9	12.4	2
AQ45	714879,734636	46.1	18.1	12.5	2
AQ46	715040,734582	24.1	14.6	10.4	<1
AQ47	715054,734524	24.4	14.6	10.4	<1
AQ48	715014,734688	32.0	15.8	11.1	1
AQ49	714852,734429	37.1	16.4	11.5	1
AQ50	714829,734297	41.6	17.0	11.8	1
AQ51	714813,734240	61.1	18.7	13.0	2
AQ52	714862,734650	36.9	16.5	11.6	1
AQ53	714930,735661	39.0	16.8	11.7	1
AQ54	715025,735693	22.4	14.3	10.2	<1
AQ55	714934,735443	35.6	16.6	11.6	1
AQ56	714921,735579	35.3	16.4	11.5	1
AQ57	714941,735567	37.4	16.8	11.7	1
AQ58	714924,735634	34.5	16.2	11.4	1
AQ59	714995,735557	22.1	14.3	10.2	<1
AQ60	714940,735556	37.5	16.9	11.8	1
AQ61	715006,735602	22.0	14.3	10.2	<1
AQ62	714948,735651	37.9	16.8	11.7	1
AQ63	714947,735623	36.3	16.5	11.5	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ64	714951,735075	29.9	15.4	10.9	<1
AQ65	715013,735172	23.4	14.5	10.3	<1
AQ66	714947,735276	32.6	16.0	11.2	1
AQ67	714919,735282	30.9	15.7	11.0	1
AQ68	715021,735319	22.2	14.3	10.2	<1
AQ69	714983,735335	22.5	14.4	10.2	<1
AQ70	714939,735355	36.8	16.8	11.7	1
AQ71	714909,735428	31.8	15.9	11.2	1
AQ72	714988,735422	22.1	14.3	10.2	<1
AQ73	715021,735364	21.9	14.3	10.2	<1
AQ74	714941,735350	35.6	16.6	11.6	1
AQ75	714984,735349	22.4	14.4	10.2	<1
AQ76	714909,735447	32.4	16.1	11.2	1
AQ77	715293,737083	24.4	14.6	10.4	<1
AQ78	715177,737114	22.2	14.3	10.2	<1
AQ79	715163,737145	22.1	14.3	10.2	<1
AQ80	715144,737111	21.5	14.2	10.1	1
AQ81	715290,737211	23.0	14.4	10.2	<1
AQ82	715347,737160	25.8	14.7	10.5	<1
AQ83	714970,736162	38.3	16.5	11.5	1
AQ84	714955,736106	39.1	16.5	11.5	1
AQ85	714989,736233	39.6	16.7	11.7	1
AQ86	714973,736173	34.3	15.9	11.2	1
AQ87	715004,736160	38.4	16.4	11.5	1
AQ88	715112,736223	23.2	14.4	10.3	<1
AQ89	715137,736797	24.9	14.7	10.4	<1
AQ90	715162,736781	26.1	14.8	10.5	<1
AQ91	715141,736805	25.0	14.7	10.4	<1
AQ92	715168,736799	26.0	14.8	10.5	<1
AQ93	715173,736886	25.6	14.7	10.5	<1
AQ94	715231,736947	26.9	14.9	10.6	<1
AQ95	715198,736881	26.7	14.9	10.5	<1
AQ96	715201,736958	24.3	14.6	10.4	<1
AQ97	715253,737014	24.7	14.6	10.4	<1
AQ98	715233,736996	24.5	14.6	10.4	<1
AQ99	715217,737019	23.9	14.5	10.3	<1
AQ100	715208,736990	23.5	14.5	10.3	<1
AQ101	715331,737143	24.6	14.6	10.4	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ102	715194,737012	22.5	14.3	10.2	<1
AQ103	715254,736967	25.2	14.7	10.4	<1
AQ104	714985,736585	48.1	18.2	12.6	2
AQ105	714971,736562	33.9	15.9	11.2	1
AQ106	715104,736604	42.0	16.7	11.7	1
AQ107	715073,736602	39.9	16.5	11.6	1
AQ108	715094,736577	42.7	17.2	12.0	1
AQ109	715079,736628	54.9	18.5	12.8	2
AQ110	715037,736623	43.1	17.3	12.0	1
AQ111	714922,736655	31.8	15.8	11.1	1
AQ112	714935,736628	31.7	15.8	11.1	1
AQ113	714908,736683	33.0	16.0	11.2	1
AQ114	714932,736700	37.9	16.8	11.7	1
AQ115	714942,736675	40.3	17.3	12.0	1
AQ116	714871,736757	24.7	14.7	10.4	<1
AQ117	714755,736779	23.9	14.6	10.4	<1
AQ118	714867,736710	23.6	14.6	10.3	<1
AQ119	715101,736694	26.4	14.9	10.5	<1
AQ120	715086,735971	27.0	14.9	10.5	<1
AQ121	715093,736100	23.5	14.5	10.3	<1
AQ122	714979,736090	43.1	16.6	11.6	1
AQ123	714979,735962	43.3	17.3	12.0	1
AQ124	715071,736007	24.6	14.6	10.4	<1
AQ125	715067,736024	24.0	14.5	10.3	<1
AQ126	714973,736042	52.6	18.8	13.0	2
AQ127	714961,735948	41.1	16.9	11.8	1
AQ128	714987,736629	39.2	16.9	11.8	1
AQ129	715001,736510	35.5	16.1	11.3	1
AQ130	714982,735770	44.2	17.4	12.1	1
AQ131	715040,735787	23.1	14.4	10.3	<1
AQ132	714977,735755	38.1	16.5	11.6	1
AQ133	714965,735877	41.3	16.9	11.8	1
AQ134	714984,735852	41.2	16.9	11.8	1
AQ135	714996,735909	53.6	18.6	12.9	2
AQ136	714949,735909	50.7	18.2	12.6	2
AQ137	715060,735903	31.4	15.4	10.9	<1
AQ138	715056,735882	27.7	15.0	10.6	<1
AQ139	714996,735890	46.9	17.6	12.3	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ140	715091,735902	37.7	16.2	11.4	1
AQ141	714933,735676	43.5	17.1	11.9	1
AQ142	714955,735674	42.5	16.9	11.8	1
AQ143	714966,735785	35.8	16.2	11.3	1
AQ144	714953,735742	41.4	17.0	11.9	1
AQ145	714983,735786	39.0	16.6	11.6	1
AQ146	714935,734960	30.8	15.6	11.0	1
AQ147	714956,734916	45.2	18.1	12.5	2
AQ148	714922,734916	30.0	15.5	10.9	1
AQ149	714472,736949	22.9	14.4	10.3	<1
AQ150	714313,737120	23.3	14.5	10.3	<1
AQ151	715434,738674	26.0	15.0	10.6	<1
AQ152	715372,738863	23.3	14.5	10.3	<1
AQ153	715383,738759	23.3	14.5	10.3	<1
AQ154	715384,738655	23.2	14.5	10.3	<1
AQ155	715476,737643	26.2	14.9	10.5	<1
AQ156	715481,737594	24.0	14.6	10.4	<1
AQ157	715481,737594	24.0	14.6	10.4	<1
AQ158	715433,737920	27.8	15.0	10.6	<1
AQ159	715447,737859	25.5	14.7	10.5	<1
AQ160	715444,737620	23.7	14.5	10.3	<1
AQ161	715438,737675	23.2	14.5	10.3	<1
AQ162	715451,737821	25.4	14.7	10.4	<1
AQ163	715464,737747	25.7	14.7	10.4	<1
AQ164	715467,737724	25.9	14.7	10.5	<1
AQ165	715404,738140	25.4	14.8	10.5	<1
AQ166	715404,738108	25.7	14.8	10.5	<1
AQ167	715360,738284	24.7	14.8	10.5	<1
AQ168	715372,738462	24.2	14.7	10.4	<1
AQ169	715357,738177	25.0	14.8	10.5	<1
AQ170	715194,737262	21.6	14.2	10.1	1
AQ171	715236,737223	22.1	14.3	10.2	<1
AQ172	715175,737516	23.5	14.5	10.3	<1
AQ173	715178,737488	21.8	14.3	10.2	1
AQ174	715190,737457	22.3	14.3	10.2	<1
AQ175	715277,737200	22.3	14.3	10.2	<1
AQ176	715218,737212	22.2	14.3	10.2	<1
AQ177	715202,737773	21.7	14.3	10.2	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ178	715342,737941	26.5	14.9	10.6	<1
AQ179	715315,737902	24.2	14.6	10.4	<1
AQ180	715275,737837	22.0	14.3	10.2	1
AQ181	715269,737897	22.3	14.3	10.2	<1
AQ182	715382,737333	23.1	14.5	10.3	<1
AQ183	715451,737821	25.4	14.7	10.4	<1
AQ184	715428,737722	23.2	14.4	10.3	<1
AQ185	715426,737732	23.2	14.4	10.3	<1
AQ186	715415,737814	23.5	14.5	10.3	<1
AQ187	715364,737295	22.4	14.4	10.2	<1
AQ188	715363,738002	25.6	14.8	10.5	<1
AQ189	715429,737551	23.3	14.5	10.3	<1
AQ190	715405,737461	22.9	14.5	10.3	<1
AQ191	715401,737878	24.6	14.6	10.4	<1
AQ192	715387,737927	27.1	14.9	10.6	<1
AQ193	715382,737998	25.3	14.7	10.4	<1
AQ194	715391,737396	23.0	14.5	10.3	<1
AQ195	715416,738010	25.9	14.8	10.5	<1
AQ196	715410,740446	25.9	14.9	10.5	<1
AQ197	715385,740597	25.7	14.9	10.5	<1
AQ198	715403,740362	24.0	14.6	10.4	<1
AQ199	715130,737642	22.6	14.4	10.2	<1
AQ200	715231,737459	21.8	14.3	10.2	1
AQ201	715226,737338	22.1	14.3	10.2	1
AQ202	715221,737400	22.4	14.3	10.2	<1
AQ203	715191,737420	21.6	14.2	10.2	1
AQ204	715182,737371	21.4	14.2	10.1	1
AQ205	715114,737548	22.4	14.3	10.2	<1
AQ206	715153,737684	21.8	14.3	10.2	1
AQ207	715502,739359	25.3	14.9	10.5	<1
AQ208	715408,739100	27.8	15.1	10.7	<1
AQ209	715493,739262	25.7	15.0	10.6	<1
AQ210	715368,738953	24.0	14.6	10.4	<1
AQ211	715434,739035	26.9	15.0	10.6	<1
AQ212	715452,739042	25.7	14.8	10.5	<1
AQ213	715416,738981	26.4	15.0	10.6	<1
AQ214	713910,737756	23.3	14.5	10.3	<1
AQ215	713962,737748	28.0	15.2	10.7	<1



DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ216	713991,737518	22.8	14.4	10.3	<1
AQ217	713176,738821	28.3	15.2	10.8	<1
AQ218	713196,738843	28.0	15.2	10.7	<1
AQ219	713839,738020	22.8	14.4	10.3	<1
AQ220	713797,738159	23.6	14.6	10.3	<1
AQ221	713742,738142	22.2	14.4	10.2	<1
AQ222	713329,738634	23.9	14.7	10.4	<1
AQ223	713049,738954	22.7	14.4	10.3	<1
AQ224	715314,737046	24.0	14.5	10.3	<1
AQ225	715359,737115	25.0	14.6	10.4	<1
AQ226	715433,739637	24.3	14.6	10.4	<1
AQ227	714782,734168	47.2	17.8	12.3	1
AQ228	714806,734148	51.7	18.5	12.8	2
AQ229	714790,734058	52.1	18.7	12.9	2
AQ230	714768,734036	46.7	17.7	12.1	1
AQ231	714815,733986	42.1	17.4	12.0	1
AQ232	714898,733940	36.6	16.3	11.4	1
AQ233	714868,733938	36.8	16.2	11.3	1
AQ234	715040,733934	44.5	17.5	12.2	1
AQ235	714960,733960	41.2	17.0	11.9	1
AQ236	715087,733873	38.3	16.5	11.6	1
AQ237	714703,734262	54.5	19.7	13.5	3
AQ238	714716,734342	24.7	14.6	10.4	<1
AQ239	714723,734337	24.8	14.7	10.4	<1
AQ240	714735,734416	24.8	14.7	10.4	<1
AQ241	714738,734493	23.1	14.4	10.3	<1
AQ242	714793,734626	25.5	14.8	10.5	<1
AQ243	714777,734605	24.4	14.6	10.4	<1
AQ244	714796,734634	26.3	14.9	10.5	<1
AQ245	714770,734550	23.9	14.6	10.3	<1
AQ246	714947,734693	35.6	16.3	11.4	1
AQ247	714953,734491	25.6	14.7	10.5	<1
AQ248	714951,734470	24.5	14.6	10.4	<1
AQ249	714958,734578	24.0	14.6	10.4	<1
AQ250	715173,734810	41.9	17.3	11.5	1
AQ251	715149,734779	38.6	16.9	11.6	1
AQ252	715114,734778	40.2	17.3	11.9	1
AQ253	714712,734756	29.5	15.4	10.9	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ254	714707,734771	32.7	16.0	11.2	1
AQ255	714517,734365	38.9	16.3	11.4	1
AQ256	714507,734382	35.2	16.0	11.2	1
AQ257	714516,734462	31.6	15.6	11.0	1
AQ258	714522,734505	33.0	15.9	11.1	1
AQ259	714538,734639	42.4	17.5	12.1	1
AQ260	714540,734541	37.2	16.6	11.6	1
AQ261	714663,734669	34.7	16.2	11.4	1
AQ262	714575,734672	36.9	16.5	11.6	1
AQ263	714676,734657	30.7	15.6	11.0	1
AQ264	714671,734746	29.4	15.4	10.9	<1
AQ265	714662,734762	32.3	15.9	11.2	1
AQ266	714404,734696	39.3	16.8	11.7	1
AQ267	714410,734682	34.1	16.2	11.2	1
AQ268	714392,734685	32.3	15.8	11.0	1
AQ269	714399,734732	42.7	17.2	11.9	1
AQ270	714339,734787	31.3	15.6	11.0	1
AQ271	714344,734781	31.3	15.6	11.0	1
AQ272	714379,734734	34.0	15.9	11.1	1
AQ273	714292,734856	29.6	15.4	10.8	<1
AQ274	714346,734806	37.7	16.5	11.6	1
AQ275	714259,734954	34.1	16.0	11.3	1
AQ276	714232,734942	29.7	15.4	10.9	<1
AQ277	714238,734930	31.5	15.6	11.0	1
AQ278	714216,735009	33.1	15.8	11.1	1
AQ279	714191,734990	30.1	15.4	10.9	<1
AQ280	714254,734966	38.2	16.7	11.7	1
AQ281	714176,735042	42.7	17.1	11.9	1
AQ282	714134,735080	34.4	16.0	11.2	1
AQ283	714121,735080	30.3	15.5	10.9	<1
AQ284	714021,735211	34.2	16.1	11.3	1
AQ285	714028,735223	42.9	17.6	12.2	1
AQ286	714012,735224	28.4	15.3	10.8	<1
AQ287	713935,735463	48.2	17.2	11.9	1
AQ288	713913,735489	49.0	17.3	12.1	1
AQ289	713973,735329	35.9	16.4	11.5	1
AQ290	714818,735878	25.9	14.8	10.5	<1
AQ291	714676,735906	25.5	14.9	10.5	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ292	715709,735720	51.9	18.1	12.2	2
AQ293	715700,735702	45.5	17.3	11.9	1
AQ294	715682,735736	44.5	17.2	11.6	1
AQ295	715667,735718	40.7	16.7	11.5	1
AQ296	715727,735815	52.7	18.5	11.9	2
AQ297	715744,735788	47.7	17.7	11.4	1
AQ298	715756,735810	46.5	17.7	11.4	1
AQ299	715718,735803	48.3	17.8	11.6	1
AQ300	715799,735893	45.9	17.7	11.3	1
AQ301	715769,735905	45.2	17.5	11.3	1
AQ302	715775,735917	41.1	16.8	11.1	1
AQ303	715814,735918	46.9	17.6	11.3	1
AQ304	715818,735992	43.8	17.2	11.1	1
AQ305	715846,735982	47.5	17.8	11.3	1
AQ306	715843,736047	52.4	18.8	12.1	2
AQ307	715872,736028	46.0	17.7	11.5	1
AQ308	715719,736094	26.5	14.9	10.4	<1
AQ309	715702,736101	25.4	14.8	10.4	<1
AQ310	715776,736219	26.0	14.8	10.4	<1
AQ311	715759,736226	25.8	14.8	10.4	<1
AQ312	715784,736236	26.1	14.8	10.4	<1
AQ313	715771,736252	26.3	14.8	10.4	<1
AQ314	715822,736361	23.5	14.5	10.2	<1
AQ315	715840,736353	23.5	14.5	10.2	<1
AQ316	715616,736364	25.6	14.8	10.5	<1
AQ317	715623,736322	25.1	14.7	10.4	<1
AQ318	715613,736350	24.5	14.6	10.4	<1
AQ319	715635,736434	22.7	14.4	10.2	<1
AQ320	715370,736516	23.8	14.5	10.3	<1
AQ321	715389,736493	22.7	14.4	10.2	<1
AQ322	715369,736493	22.7	14.4	10.2	<1
AQ323	715391,736518	23.2	14.4	10.2	<1
AQ324	715471,736389	22.9	14.4	10.2	<1
AQ325	715056,736459	47.4	17.2	12.0	1
AQ326	715249,736428	24.6	14.6	10.4	<1
AQ327	715248,736406	23.4	14.4	10.3	<1
AQ328	715200,736539	24.6	14.6	10.4	<1
AQ329	715192,736521	23.5	14.5	10.3	<1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ330	714753,736291	22.8	14.4	10.2	<1
AQ331	714757,736304	22.6	14.4	10.2	<1
AQ332	714737,736303	21.8	14.3	10.1	1
AQ333	714887,734697	42.6	17.3	12.1	1
AQ334	714918,734776	37.9	16.5	11.6	1
AQ335	714920,734871	34.1	16.1	11.3	1
AQ336	715161,734821	40.2	17.1	11.4	1
AQ337	715050,734723	38.5	17.0	11.8	1
AQ338	715051,734749	40.4	17.4	12.0	1
AQ339	715094,734741	38.4	16.9	11.8	1
AQ340	715098,736591	42.6	17.0	11.8	1
AQ341	713864,738074	24.1	14.6	10.4	<1
AQ342	712749,739812	27.8	15.3	10.8	<1
AQ343	712613,739799	22.7	14.4	10.3	<1
AQ344	712753,739720	24.6	14.8	10.5	<1
AQ345	715026,734392	23.2	14.4	10.3	<1
AQ346	714997,734396	23.9	14.5	10.3	<1
AQ347	714828,734792	24.6	14.6	10.4	<1
AQ348	715093,734269	24.6	14.6	10.4	<1
AQ349	714999,736553	32.3	15.7	11.1	1
AQ350	712507,739809	20.6	14.1	10.1	1
AQ351	714745,734486	23.4	14.5	10.3	<1
AQ352	715510,740236	27.8	15.2	10.8	<1
AQ353	715191,735865	30.1	15.3	10.8	<1
AQ354	714829,734740	31.8	15.7	11.0	1
AQ355	714829,734774	25.8	14.8	10.5	<1
AQ356	715571,737454	23.3	14.5	10.3	<1
AQ357	715238,737251	22.9	14.4	10.2	<1
AQ358	715309,737551	21.0	14.2	10.1	1
AQ359	715213,737647	20.9	14.2	10.1	1
AQ360	715472,737544	29.2	15.3	10.8	<1
AQ361	713269,739047	24.9	14.7	10.4	<1
AQ362	715655,738657	20.8	14.2	10.1	1
AQ363	714840,736724	23.3	14.5	10.3	<1
AQ364	715306,737965	24.7	14.7	10.4	<1
AQ365	715330,738134	22.4	14.4	10.2	<1
AQ366	715193,737898	21.4	14.2	10.1	1
AQ367	715005,737589	21.0	14.2	10.1	1

DM (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ368	713655,738228	23.3	14.5	10.3	<1
AQ369	713028,738778	22.1	14.4	10.2	<1
AQ370	715358,738994	22.7	14.4	10.2	<1
AQ371	715430,739469	22.3	14.4	10.2	<1
AQ372	715520,739462	22.9	14.5	10.3	<1
AQ373	714738,734460	23.6	14.5	10.3	<1
AQ374	714853,734440	25.2	14.7	10.4	<1
AQ375	715695,736814	24.5	14.6	10.4	<1
AQ376	715503,737018	23.5	14.5	10.3	<1
AQ377	715494,737000	22.0	14.3	10.2	1
AQ378	715828,736777	23.6	14.5	10.3	<1
AQ379	715831,736757	22.7	14.4	10.2	<1
AQ380	715818,736759	22.6	14.3	10.2	<1
Air Quality Limit Value Objective		40	40	25	35

In the cumulative 2024 DM scenario annual mean concentrations of  $\text{NO}_2$  are above the relevant national air quality limit value objective in some areas; 80 exceedances were modelled at receptors on the R135 Finglas Road, R108 Botanic Road / Phibsborough Road/ High Street, R101 North Circular Road, R805 Manor Street, Queen Street, Arran Quay and the R132 Dorset Street / Bolton Street / Church Street. Annual mean  $\text{NO}_2$  concentrations exceeded  $60\mu\text{g}/\text{m}^3$  at one receptor on the R132 Church Street, indicating that exceedances of the  $\text{NO}_2$  1-hour mean may occur. Annual mean  $\text{PM}_{10}$  concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour  $\text{PM}_{10}$  concentration indicated that there is likely to be no more than three exceedance of the  $50\mu\text{g}/\text{m}^3$  ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean  $\text{PM}_{2.5}$  concentrations are also below the relevant national air quality limit value objective for all modelled receptors.

## 1.2 'Do Something' Scenario

Predicted annual mean concentrations of NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and the number of exceedances of the 24 hour PM<sub>10</sub> objective, at all modelled existing air quality sensitive receptors in the cumulative 2024 DS (Do Something) scenario are listed in Table 1.2. Locations of these receptors are shown in Figure 7.6 to Figure 7.9 in Volume 3 of this EIAR.

**Table 1.2: Predicted Cumulative 2024 Do Something Construction Scenario Pollutant Statistics At All Modelled Receptor Locations**

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m <sup>3</sup> )			No. of PM <sub>10</sub> days > 50µg/m <sup>3</sup>
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ1	715367,737143	29.3	15.2	10.7	<1
AQ2	715405,737202	26.2	14.8	10.5	<1
AQ3	715087,736553	41.6	17.1	11.9	1
AQ4	715079,736527	41.0	17.0	11.8	1
AQ5	715066,736570	44.8	17.5	12.2	1
AQ6	715013,736516	43.0	17.2	12.0	1
AQ7	715127,736243	23.1	14.4	10.3	<1
AQ8	714992,736243	36.6	16.2	11.4	1
AQ9	715019,736244	48.4	18.1	12.5	2
AQ10	714997,736266	38.0	16.4	11.5	1
AQ11	715036,736390	56.4	17.2	12.1	1
AQ12	715005,736359	43.6	16.2	11.4	1
AQ13	715043,736434	50.0	17.0	11.9	1
AQ14	715039,736413	54.7	17.1	12.0	1
AQ15	715042,736487	48.7	17.7	12.3	1
AQ16	715031,736487	48.3	17.4	12.2	1
AQ17	715063,736482	49.9	17.9	12.5	2
AQ18	715013,736478	41.3	16.4	11.6	1
AQ19	715007,736458	37.6	15.8	11.2	1
AQ20	714991,734794	24.7	14.7	10.5	<1
AQ21	714973,734731	46.5	18.4	13.8	2
AQ22	715015,734796	24.3	14.7	10.5	<1
AQ23	715042,734747	45.8	18.4	13.0	2
AQ24	715021,734710	41.8	17.4	12.9	1
AQ25	714966,734791	26.4	14.9	10.7	<1
AQ26	714967,734805	25.9	14.9	10.6	<1
AQ27	714963,734840	26.4	14.9	10.6	<1
AQ28	714879,734648	46.0	18.2	12.6	2
AQ29	714933,734823	35.6	16.2	11.4	1
AQ30	714962,734854	25.8	14.8	10.5	<1
AQ31	714922,734731	38.6	16.8	11.9	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ32	714879,734757	39.2	16.7	11.7	1
AQ33	714886,734787	40.4	16.8	11.8	1
AQ34	714868,734720	56.2	19.6	13.6	3
AQ35	714934,734702	37.1	16.7	11.8	1
AQ36	714861,734526	38.7	16.8	11.8	1
AQ37	715081,734346	30.4	15.3	10.9	<1
AQ38	715098,734328	23.4	14.5	10.3	<1
AQ39	714878,734543	46.3	18.2	12.6	2
AQ40	714855,734461	34.1	16.0	11.3	1
AQ41	714882,734463	38.4	16.6	11.7	1
AQ42	715090,734382	24.0	14.5	10.3	<1
AQ43	714878,734485	49.2	18.5	12.8	2
AQ44	714879,734603	44.4	17.8	12.4	1
AQ45	714879,734636	45.2	18.0	12.5	2
AQ46	715040,734582	24.0	14.6	10.4	<1
AQ47	715054,734524	24.3	14.6	10.4	<1
AQ48	715014,734688	31.3	15.7	11.3	1
AQ49	714852,734429	36.7	16.3	11.5	1
AQ50	714829,734297	41.0	16.9	11.9	1
AQ51	714813,734240	58.9	18.7	13.5	2
AQ52	714862,734650	36.3	16.4	11.6	1
AQ53	714930,735661	39.7	16.9	11.8	1
AQ54	715025,735693	22.4	14.3	10.2	<1
AQ55	714934,735443	36.0	16.7	11.6	1
AQ56	714921,735579	35.7	16.5	11.5	1
AQ57	714941,735567	37.8	16.9	11.8	1
AQ58	714924,735634	34.8	16.3	11.4	1
AQ59	714995,735557	22.1	14.3	10.2	<1
AQ60	714940,735556	37.9	17.0	11.8	1
AQ61	715006,735602	22.0	14.3	10.2	<1
AQ62	714948,735651	38.4	16.8	11.7	1
AQ63	714947,735623	36.7	16.6	11.6	1
AQ64	714951,735075	29.9	15.4	10.9	<1
AQ65	715013,735172	23.5	14.5	10.3	<1
AQ66	714947,735276	32.9	16.1	11.3	1
AQ67	714919,735282	31.0	15.8	11.1	1
AQ68	715021,735319	22.2	14.3	10.2	<1
AQ69	714983,735335	22.5	14.4	10.2	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ70	714939,735355	37.2	16.9	11.8	1
AQ71	714909,735428	32.0	16.0	11.2	1
AQ72	714988,735422	22.1	14.3	10.2	<1
AQ73	715021,735364	21.9	14.3	10.2	<1
AQ74	714941,735350	35.9	16.7	11.6	1
AQ75	714984,735349	22.4	14.4	10.2	<1
AQ76	714909,735447	32.7	16.1	11.3	1
AQ77	715293,737083	24.6	14.6	10.4	<1
AQ78	715177,737114	22.5	14.4	10.2	<1
AQ79	715163,737145	22.3	14.3	10.2	<1
AQ80	715144,737111	21.6	14.2	10.2	1
AQ81	715290,737211	23.3	14.4	10.3	<1
AQ82	715347,737160	26.4	14.8	10.5	<1
AQ83	714970,736162	39.0	16.5	11.6	1
AQ84	714955,736106	40.0	16.5	11.6	1
AQ85	714989,736233	40.4	16.8	11.7	1
AQ86	714973,736173	34.9	16.0	11.2	1
AQ87	715004,736160	39.1	16.5	11.6	1
AQ88	715112,736223	23.3	14.4	10.3	<1
AQ89	715137,736797	25.2	14.7	10.4	<1
AQ90	715162,736781	26.5	14.9	10.5	<1
AQ91	715141,736805	25.4	14.7	10.4	<1
AQ92	715168,736799	26.4	14.8	10.5	<1
AQ93	715173,736886	26.1	14.8	10.5	<1
AQ94	715231,736947	27.4	15.0	10.6	<1
AQ95	715198,736881	27.2	14.9	10.6	<1
AQ96	715201,736958	24.6	14.6	10.4	<1
AQ97	715253,737014	24.9	14.6	10.4	<1
AQ98	715233,736996	24.8	14.6	10.4	<1
AQ99	715217,737019	24.4	14.6	10.4	<1
AQ100	715208,736990	23.8	14.5	10.3	<1
AQ101	715331,737143	25.0	14.6	10.4	<1
AQ102	715194,737012	22.7	14.4	10.2	<1
AQ103	715254,736967	25.5	14.7	10.4	<1
AQ104	714985,736585	49.9	18.4	12.8	2
AQ105	714971,736562	34.9	16.0	11.3	1
AQ106	715104,736604	43.6	16.9	11.8	1
AQ107	715073,736602	41.4	16.6	11.7	1



DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ108	715094,736577	44.6	17.4	12.1	1
AQ109	715079,736628	57.3	18.7	13.0	2
AQ110	715037,736623	44.8	17.5	12.2	1
AQ111	714922,736655	32.8	15.9	11.2	1
AQ112	714935,736628	32.6	15.9	11.2	1
AQ113	714908,736683	34.5	16.1	11.3	1
AQ114	714932,736700	40.1	17.0	11.9	1
AQ115	714942,736675	42.2	17.5	12.2	1
AQ116	714871,736757	25.3	14.8	10.5	<1
AQ117	714755,736779	24.4	14.6	10.4	<1
AQ118	714867,736710	24.1	14.6	10.4	<1
AQ119	715101,736694	26.9	14.9	10.6	<1
AQ120	715086,735971	27.3	14.9	10.6	<1
AQ121	715093,736100	23.7	14.5	10.3	<1
AQ122	714979,736090	44.9	16.7	11.7	1
AQ123	714979,735962	44.8	17.4	12.2	1
AQ124	715071,736007	24.8	14.6	10.4	<1
AQ125	715067,736024	24.1	14.5	10.3	<1
AQ126	714973,736042	55.0	19.1	13.2	3
AQ127	714961,735948	42.4	17.0	11.9	1
AQ128	714987,736629	40.6	17.1	11.9	1
AQ129	715001,736510	36.6	16.2	11.4	1
AQ130	714982,735770	44.8	17.5	12.2	1
AQ131	715040,735787	23.2	14.4	10.3	<1
AQ132	714977,735755	38.6	16.5	11.6	1
AQ133	714965,735877	42.2	17.0	11.9	1
AQ134	714984,735852	41.9	17.0	11.9	1
AQ135	714996,735909	55.4	18.9	13.1	2
AQ136	714949,735909	52.3	18.3	12.8	2
AQ137	715060,735903	32.1	15.5	11.0	1
AQ138	715056,735882	28.1	15.0	10.6	<1
AQ139	714996,735890	48.3	17.8	12.4	1
AQ140	715091,735902	38.8	16.3	11.5	1
AQ141	714933,735676	44.5	17.2	12.0	1
AQ142	714955,735674	43.5	16.9	11.8	1
AQ143	714966,735785	36.2	16.2	11.4	1
AQ144	714953,735742	41.9	17.0	11.9	1
AQ145	714983,735786	39.5	16.7	11.7	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ146	714935,734960	30.7	15.6	11.0	1
AQ147	714956,734916	45.4	18.1	12.6	2
AQ148	714922,734916	29.9	15.5	10.9	<1
AQ149	714472,736949	23.1	14.5	10.3	<1
AQ150	714313,737120	23.6	14.5	10.3	<1
AQ151	715434,738674	26.9	15.1	10.7	<1
AQ152	715372,738863	23.6	14.5	10.3	<1
AQ153	715383,738759	23.6	14.6	10.4	<1
AQ154	715384,738655	23.5	14.6	10.3	<1
AQ155	715476,737643	28.0	15.0	10.6	<1
AQ156	715481,737594	24.8	14.6	10.4	<1
AQ157	715481,737594	24.8	14.6	10.4	<1
AQ158	715433,737920	28.4	15.1	10.7	<1
AQ159	715447,737859	26.3	14.8	10.5	<1
AQ160	715444,737620	24.6	14.6	10.4	<1
AQ161	715438,737675	24.1	14.5	10.3	<1
AQ162	715451,737821	26.4	14.8	10.5	<1
AQ163	715464,737747	27.1	14.8	10.5	<1
AQ164	715467,737724	27.6	14.9	10.6	<1
AQ165	715404,738140	26.0	14.9	10.6	<1
AQ166	715404,738108	26.4	14.9	10.6	<1
AQ167	715360,738284	25.1	14.9	10.5	<1
AQ168	715372,738462	24.6	14.7	10.5	<1
AQ169	715357,738177	25.4	14.9	10.5	<1
AQ170	715194,737262	21.8	14.3	10.2	1
AQ171	715236,737223	22.3	14.3	10.2	<1
AQ172	715175,737516	24.1	14.6	10.3	<1
AQ173	715178,737488	22.1	14.3	10.2	<1
AQ174	715190,737457	22.7	14.4	10.2	<1
AQ175	715277,737200	22.5	14.3	10.2	<1
AQ176	715218,737212	22.5	14.4	10.2	<1
AQ177	715202,737773	21.9	14.3	10.2	1
AQ178	715342,737941	26.7	14.9	10.6	<1
AQ179	715315,737902	24.4	14.6	10.4	<1
AQ180	715275,737837	22.3	14.3	10.2	<1
AQ181	715269,737897	22.5	14.4	10.2	<1
AQ182	715382,737333	23.6	14.5	10.3	<1
AQ183	715451,737821	26.4	14.8	10.5	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ184	715428,737722	24.0	14.5	10.3	<1
AQ185	715426,737732	23.9	14.5	10.3	<1
AQ186	715415,737814	24.1	14.5	10.3	<1
AQ187	715364,737295	22.7	14.4	10.2	<1
AQ188	715363,738002	26.0	14.8	10.5	<1
AQ189	715429,737551	23.8	14.6	10.3	<1
AQ190	715405,737461	23.3	14.5	10.3	<1
AQ191	715401,737878	25.0	14.6	10.4	<1
AQ192	715387,737927	27.4	14.9	10.6	<1
AQ193	715382,737998	25.8	14.8	10.5	<1
AQ194	715391,737396	23.3	14.5	10.3	<1
AQ195	715416,738010	26.6	14.8	10.5	<1
AQ196	715410,740446	26.4	14.9	10.6	<1
AQ197	715385,740597	26.3	14.9	10.6	<1
AQ198	715403,740362	24.3	14.7	10.4	<1
AQ199	715130,737642	22.9	14.4	10.3	<1
AQ200	715231,737459	22.0	14.3	10.2	1
AQ201	715226,737338	22.3	14.3	10.2	<1
AQ202	715221,737400	22.8	14.4	10.2	<1
AQ203	715191,737420	21.9	14.3	10.2	1
AQ204	715182,737371	21.5	14.2	10.1	1
AQ205	715114,737548	22.7	14.4	10.2	<1
AQ206	715153,737684	22.1	14.3	10.2	<1
AQ207	715502,739359	26.2	15.0	10.6	<1
AQ208	715408,739100	28.2	15.1	10.7	<1
AQ209	715493,739262	26.5	15.1	10.7	<1
AQ210	715368,738953	24.4	14.6	10.4	<1
AQ211	715434,739035	27.8	15.2	10.7	<1
AQ212	715452,739042	26.5	15.0	10.6	<1
AQ213	715416,738981	27.3	15.1	10.7	<1
AQ214	713910,737756	23.5	14.5	10.3	<1
AQ215	713962,737748	28.4	15.2	10.8	<1
AQ216	713991,737518	22.9	14.5	10.3	<1
AQ217	713176,738821	28.5	15.3	10.8	<1
AQ218	713196,738843	28.4	15.2	10.8	<1
AQ219	713839,738020	23.0	14.5	10.3	<1
AQ220	713797,738159	23.8	14.6	10.4	<1
AQ221	713742,738142	22.3	14.4	10.2	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m³)			No. of PM <sub>10</sub> days > 50µg/m³
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ222	713329,738634	24.1	14.7	10.4	<1
AQ223	713049,738954	22.8	14.5	10.3	<1
AQ224	715314,737046	24.2	14.5	10.3	<1
AQ225	715359,737115	25.5	14.7	10.4	<1
AQ226	715433,739637	24.7	14.7	10.4	<1
AQ227	714782,734168	46.9	17.7	12.5	1
AQ228	714806,734148	50.8	18.4	12.8	2
AQ229	714790,734058	51.6	18.6	12.9	2
AQ230	714768,734036	47.4	17.7	12.3	1
AQ231	714815,733986	40.7	17.1	11.9	1
AQ232	714898,733940	36.3	16.1	11.3	1
AQ233	714868,733938	36.5	16.0	11.3	1
AQ234	715040,733934	43.4	17.2	12.0	1
AQ235	714960,733960	40.3	16.7	11.7	1
AQ236	715087,733873	37.7	16.4	11.5	1
AQ237	714703,734262	54.4	19.7	13.5	3
AQ238	714716,734342	24.6	14.6	10.4	<1
AQ239	714723,734337	24.6	14.6	10.4	<1
AQ240	714735,734416	24.4	14.6	10.4	<1
AQ241	714738,734493	23.0	14.4	10.3	<1
AQ242	714793,734626	25.5	14.8	10.5	<1
AQ243	714777,734605	24.3	14.6	10.4	<1
AQ244	714796,734634	26.3	14.8	10.5	<1
AQ245	714770,734550	23.9	14.5	10.4	<1
AQ246	714947,734693	35.0	16.2	11.6	1
AQ247	714953,734491	25.7	14.7	10.5	<1
AQ248	714951,734470	24.4	14.6	10.4	<1
AQ249	714958,734578	24.0	14.6	10.4	<1
AQ250	715173,734810	40.2	17.1	12.0	1
AQ251	715149,734779	37.4	16.7	11.7	1
AQ252	715114,734778	38.3	17.0	11.9	1
AQ253	714712,734756	29.2	15.4	10.9	<1
AQ254	714707,734771	32.6	16.0	11.2	1
AQ255	714517,734365	36.2	15.9	11.2	1
AQ256	714507,734382	33.3	15.7	11.1	1
AQ257	714516,734462	29.7	15.3	10.8	<1
AQ258	714522,734505	31.0	15.5	11.0	1
AQ259	714538,734639	39.8	16.8	11.8	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ260	714540,734541	35.5	16.2	11.4	1
AQ261	714663,734669	33.4	16.0	11.3	1
AQ262	714575,734672	35.0	16.2	11.4	1
AQ263	714676,734657	29.9	15.5	10.9	1
AQ264	714671,734746	29.0	15.4	10.9	<1
AQ265	714662,734762	32.1	15.9	11.2	1
AQ266	714404,734696	35.4	16.2	11.4	1
AQ267	714410,734682	31.5	15.7	11.1	1
AQ268	714392,734685	30.0	15.5	10.9	<1
AQ269	714399,734732	39.0	16.6	11.6	1
AQ270	714339,734787	28.6	15.2	10.8	<1
AQ271	714344,734781	28.7	15.2	10.8	<1
AQ272	714379,734734	31.4	15.6	11.0	1
AQ273	714292,734856	27.2	15.0	10.6	<1
AQ274	714346,734806	33.3	15.9	11.2	1
AQ275	714259,734954	31.9	15.7	11.1	1
AQ276	714232,734942	31.8	15.6	11.0	1
AQ277	714238,734930	34.1	15.9	11.2	1
AQ278	714216,735009	27.0	15.0	10.6	<1
AQ279	714191,734990	25.8	14.8	10.5	<1
AQ280	714254,734966	33.9	16.0	11.2	1
AQ281	714176,735042	30.3	15.4	10.9	<1
AQ282	714134,735080	25.2	14.8	10.5	<1
AQ283	714121,735080	24.3	14.7	10.4	<1
AQ284	714021,735211	24.7	14.7	10.5	<1
AQ285	714028,735223	28.4	15.3	10.8	<1
AQ286	714012,735224	24.4	14.7	10.4	<1
AQ287	713935,735463	38.5	16.0	11.3	1
AQ288	713913,735489	42.2	16.5	11.6	1
AQ289	713973,735329	29.1	15.4	10.9	<1
AQ290	714818,735878	26.1	14.8	10.5	<1
AQ291	714676,735906	25.6	14.9	10.6	<1
AQ292	715709,735720	50.5	17.9	12.4	2
AQ293	715700,735702	43.6	17.0	11.9	1
AQ294	715682,735736	42.2	16.9	11.8	1
AQ295	715667,735718	38.6	16.4	11.5	1
AQ296	715727,735815	49.0	18.0	12.5	2
AQ297	715744,735788	45.1	17.3	12.1	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m³)			No. of PM <sub>10</sub> days > 50µg/m³
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ298	715756,735810	43.3	17.2	12.0	1
AQ299	715718,735803	45.4	17.4	12.1	1
AQ300	715799,735893	41.7	17.1	11.9	1
AQ301	715769,735905	41.1	17.0	11.9	1
AQ302	715775,735917	37.7	16.4	11.5	1
AQ303	715814,735918	42.3	17.1	11.9	1
AQ304	715818,735992	40.1	16.8	11.7	1
AQ305	715846,735982	42.9	17.2	12.0	1
AQ306	715843,736047	50.1	18.3	12.7	2
AQ307	715872,736028	42.2	17.0	11.9	1
AQ308	715719,736094	28.0	15.1	10.6	<1
AQ309	715702,736101	26.4	14.9	10.5	<1
AQ310	715776,736219	27.2	14.9	10.6	<1
AQ311	715759,736226	27.0	14.9	10.6	<1
AQ312	715784,736236	27.3	15.0	10.6	<1
AQ313	715771,736252	27.5	15.0	10.6	<1
AQ314	715822,736361	23.8	14.5	10.3	<1
AQ315	715840,736353	23.8	14.5	10.3	<1
AQ316	715616,736364	26.8	14.9	10.6	<1
AQ317	715623,736322	26.2	14.8	10.5	<1
AQ318	715613,736350	25.4	14.7	10.5	<1
AQ319	715635,736434	22.9	14.4	10.3	<1
AQ320	715370,736516	23.9	14.5	10.3	<1
AQ321	715389,736493	22.8	14.4	10.2	<1
AQ322	715369,736493	22.9	14.4	10.2	<1
AQ323	715391,736518	23.3	14.5	10.3	<1
AQ324	715471,736389	23.4	14.5	10.3	<1
AQ325	715056,736459	49.4	17.4	12.2	1
AQ326	715249,736428	25.7	14.7	10.5	<1
AQ327	715248,736406	24.0	14.5	10.3	<1
AQ328	715200,736539	24.8	14.6	10.4	<1
AQ329	715192,736521	23.7	14.5	10.3	<1
AQ330	714753,736291	23.0	14.4	10.3	<1
AQ331	714757,736304	22.8	14.4	10.2	<1
AQ332	714737,736303	21.9	14.3	10.2	1
AQ333	714887,734697	41.7	17.2	12.1	1
AQ334	714918,734776	37.5	16.5	11.6	1
AQ335	714920,734871	34.0	16.1	11.3	1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ336	715161,734821	38.6	16.9	11.8	1
AQ337	715050,734723	36.9	16.7	11.9	1
AQ338	715051,734749	38.6	17.1	12.1	1
AQ339	715094,734741	36.7	16.7	11.7	1
AQ340	715098,736591	44.4	17.2	12.0	1
AQ341	713864,738074	24.3	14.7	10.4	<1
AQ342	712749,739812	28.2	15.3	10.8	<1
AQ343	712613,739799	22.7	14.4	10.3	<1
AQ344	712753,739720	24.8	14.9	10.5	<1
AQ345	715026,734392	23.2	14.4	10.3	<1
AQ346	714997,734396	23.9	14.5	10.3	<1
AQ347	714828,734792	24.6	14.6	10.4	<1
AQ348	715093,734269	24.5	14.6	10.4	<1
AQ349	714999,736553	33.2	15.8	11.1	1
AQ350	712507,739809	20.7	14.1	10.1	1
AQ351	714745,734486	23.4	14.5	10.3	<1
AQ352	715510,740236	28.7	15.4	10.8	<1
AQ353	715191,735865	30.8	15.4	10.9	<1
AQ354	714829,734740	31.3	15.6	11.0	1
AQ355	714829,734774	25.8	14.8	10.5	<1
AQ356	715571,737454	23.5	14.5	10.3	<1
AQ357	715238,737251	23.2	14.4	10.3	<1
AQ358	715309,737551	21.1	14.2	10.1	1
AQ359	715213,737647	21.1	14.2	10.1	1
AQ360	715472,737544	30.4	15.5	10.9	1
AQ361	713269,739047	25.1	14.8	10.5	<1
AQ362	715655,738657	20.9	14.2	10.1	1
AQ363	714840,736724	23.7	14.5	10.3	<1
AQ364	715306,737965	24.9	14.7	10.4	<1
AQ365	715330,738134	22.5	14.4	10.2	<1
AQ366	715193,737898	21.4	14.2	10.1	1
AQ367	715005,737589	21.1	14.2	10.1	1
AQ368	713655,738228	23.5	14.5	10.3	<1
AQ369	713028,738778	22.1	14.4	10.2	<1
AQ370	715358,738994	23.0	14.4	10.3	<1
AQ371	715430,739469	22.6	14.4	10.3	<1
AQ372	715520,739462	23.3	14.6	10.3	<1
AQ373	714738,734460	23.5	14.5	10.3	<1

DS (2024)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $> 50\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ374	714853,734440	25.0	14.7	10.4	<1
AQ375	715695,736814	25.5	14.8	10.5	<1
AQ376	715503,737018	24.2	14.6	10.4	<1
AQ377	715494,737000	22.3	14.3	10.2	<1
AQ378	715828,736777	24.6	14.6	10.4	<1
AQ379	715831,736757	23.9	14.5	10.3	<1
AQ380	715818,736759	23.5	14.5	10.3	<1
<b>Air Quality Limit Value Objective</b>		<b>40</b>	<b>40</b>	<b>25</b>	<b>35</b>

In the cumulative 2024 DS scenario annual mean concentrations of  $\text{NO}_2$  are above the relevant national air quality limit value objective in some areas; 77 exceedances were modelled at receptors on the R135 Finglas Road, R108 Botanic Road / Phibsborough Road / High Street, R101 North Circular Road, Arran Quay and R132 Dorset Street / Bolton Street / Church Street. This is a reduction from 80 exceedances in the DM scenario. Annual mean  $\text{NO}_2$  concentrations did not exceed  $60\mu\text{g}/\text{m}^3$ , indicating that exceedances of the  $\text{NO}_2$  1-hour mean are unlikely to occur. Annual mean  $\text{PM}_{10}$  concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour  $\text{PM}_{10}$  concentration indicated that there is likely to be no more than three exceedance of the  $50\mu\text{g}/\text{m}^3$  ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean  $\text{PM}_{2.5}$  concentrations are also below the relevant national air quality limit value objective for all modelled receptors.



### 1.3 Comparison of Do Something with Do Minimum

Table 1.3 provides the predicted change in and impact on pollutant concentrations, between the cumulative DM and DS in 2024. Pollutant concentrations have been outlined to one decimal place, where '<0.1' is reported, the pollutant concentration is considered to be less than this amount (i.e. two or more decimal places).

**Table 1.3: Predicted Changes in Cumulative Construction DM and DS and Impact Significance Criteria At All Modelled Receptor Locations**

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. (µg/m <sup>3</sup> )			Change in No. of PM10 days >50 µg/m <sup>3</sup>	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ1	721010,729635	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ2	721010,729636	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ3	721010,729637	1.9	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ4	721010,729638	2.0	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ5	721010,729639	2.2	0.3	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ6	721010,729640	1.5	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ7	721010,729641	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ8	721010,729642	0.7	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ9	721010,729643	1.0	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ10	721010,729644	0.7	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ11	721010,729645	2.3	0.1	0.1	<1	Moderate Adverse	Negligible	Negligible
AQ12	721010,729646	1.5	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ13	721010,729647	1.4	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ14	721010,729648	2.1	0.1	0.1	<1	Moderate Adverse	Negligible	Negligible
AQ15	721010,729649	2.0	0.3	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ16	721010,729650	1.7	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ17	721010,729651	3.0	0.4	0.3	1	Moderate Adverse	Negligible	Negligible
AQ18	721010,729652	1.1	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ19	721010,729653	0.8	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ20	721010,729654	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ21	721010,729655	-1.3	-0.2	1.0	<1	Slight Beneficial	Negligible	Negligible
AQ22	721010,729656	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ23	721010,729657	-2.5	-0.4	<0.1	<1	Moderate Beneficial	Negligible	Negligible
AQ24	721010,729658	-1.6	-0.3	0.6	<1	Slight Beneficial	Negligible	Negligible
AQ25	721010,729659	<0.1	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ26	721010,729660	<0.1	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ27	721010,729661	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ28	721010,729662	-0.9	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ29	721010,729663	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ30	721010,729664	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ31	721010,729665	-0.9	-0.1	0.1	<1	Slight Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ32	721010,729666	-0.4	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ33	721010,729667	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ34	721010,729668	-1.3	-0.2	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ35	721010,729669	-0.9	-0.1	0.1	<1	Slight Beneficial	Negligible	Negligible
AQ36	721010,729670	-0.6	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ37	721010,729671	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ38	721010,729672	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ39	721010,729673	-0.8	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ40	721010,729674	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ41	721010,729675	-0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ42	721010,729676	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ43	721010,729677	-0.5	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ44	721010,729678	-0.8	-0.1	<0.1	-1	Slight Beneficial	Negligible	Negligible
AQ45	721010,729679	-0.9	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ46	721010,729680	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ47	721010,729681	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ48	721010,729682	-0.6	-0.1	0.2	<1	Negligible	Negligible	Negligible
AQ49	721010,729683	-0.4	<0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ50	721010,729684	-0.6	<0.1	0.1	<1	Slight Beneficial	Negligible	Negligible
AQ51	721010,729685	-2.2	<0.1	0.5	<1	Moderate Beneficial	Negligible	Negligible
AQ52	721010,729686	-0.6	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ53	721010,729687	0.6	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ54	721010,729688	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ55	721010,729689	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ56	721010,729690	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ57	721010,729691	0.4	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ58	721010,729692	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ59	721010,729693	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ60	721010,729694	0.4	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ61	721010,729695	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ62	721010,729696	0.5	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ63	721010,729697	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ64	721010,729698	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ65	721010,729699	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ66	721010,729700	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ67	721010,729701	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ68	721010,729702	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ69	721010,729703	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ70	721010,729704	0.4	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ71	721010,729705	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ72	721010,729706	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ73	721010,729707	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ74	721010,729708	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ75	721010,729709	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ76	721010,729710	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ77	721010,729711	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ78	721010,729712	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ79	721010,729713	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ80	721010,729714	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ81	721010,729715	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ82	721010,729716	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ83	721010,729717	0.7	<0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ84	721010,729718	0.9	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ85	721010,729719	0.8	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ86	721010,729720	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ87	721010,729721	0.7	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ88	721010,729722	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ89	721010,729723	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ90	721010,729724	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ91	721010,729725	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ92	721010,729726	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ93	721010,729727	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ94	721010,729728	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ95	721010,729729	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ96	721010,729730	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ97	721010,729731	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ98	721010,729732	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ99	721010,729733	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ100	721010,729734	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ101	721010,729735	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ102	721010,729736	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ103	721010,729737	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ104	721010,729738	1.9	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ105	721010,729739	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ106	721010,729740	1.6	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ107	721010,729741	1.5	0.2	0.1	<1	Slight Adverse	Negligible	Negligible

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		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ108	721010,729742	1.9	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ109	721010,729743	2.3	0.3	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ110	721010,729744	1.7	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ111	721010,729745	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ112	721010,729746	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ113	721010,729747	1.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ114	721010,729748	2.2	0.2	0.2	<1	Moderate Adverse	Negligible	Negligible
AQ115	721010,729749	2.0	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ116	721010,729750	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ117	721010,729751	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ118	721010,729752	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ119	721010,729753	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ120	721010,729754	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ121	721010,729755	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ122	721010,729756	1.8	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ123	721010,729757	1.5	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ124	721010,729758	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ125	721010,729759	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ126	721010,729760	2.4	0.3	0.2	1	Moderate Adverse	Negligible	Negligible
AQ127	721010,729761	1.3	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ128	721010,729762	1.4	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ129	721010,729763	1.1	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ130	721010,729764	0.6	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ131	721010,729765	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ132	721010,729766	0.5	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ133	721010,729767	0.9	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ134	721010,729768	0.7	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ135	721010,729769	1.8	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ136	721010,729770	1.6	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ137	721010,729771	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ138	721010,729772	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ139	721010,729773	1.3	0.2	0.1	<1	Slight Adverse	Negligible	Negligible
AQ140	721010,729774	1.1	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ141	721010,729775	1.0	0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ142	721010,729776	1.0	<0.1	0.1	<1	Slight Adverse	Negligible	Negligible
AQ143	721010,729777	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ144	721010,729778	0.5	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible
AQ145	721010,729779	0.5	<0.1	<0.1	<1	Slight Adverse	Negligible	Negligible

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		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ146	721010,729780	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ147	721010,729781	0.3	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ148	721010,729782	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ149	721010,729783	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ150	721010,729784	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ151	721010,729785	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ152	721010,729786	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ153	721010,729787	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ154	721010,729788	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ155	721010,729789	1.7	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ156	721010,729790	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ157	721010,729791	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ158	721010,729792	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ159	721010,729793	0.8	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ160	721010,729794	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ161	721010,729795	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ162	721010,729796	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ163	721010,729797	1.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ164	721010,729798	1.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ165	721010,729799	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ166	721010,729800	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ167	721010,729801	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ168	721010,729802	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ169	721010,729803	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ170	721010,729804	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ171	721010,729805	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ172	721010,729806	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ173	721010,729807	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ174	721010,729808	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ175	721010,729809	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ176	721010,729810	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ177	721010,729811	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ178	721010,729812	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ179	721010,729813	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ180	721010,729814	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ181	721010,729815	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ182	721010,729816	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ183	721010,729817	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible

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		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ184	721010,729818	0.8	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ185	721010,729819	0.7	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ186	721010,729820	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ187	721010,729821	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ188	721010,729822	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ189	721010,729823	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ190	721010,729824	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ191	721010,729825	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ192	721010,729826	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ193	721010,729827	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ194	721010,729828	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ195	721010,729829	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ196	721010,729830	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ197	721010,729831	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ198	721010,729832	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ199	721010,729833	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ200	721010,729834	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ201	721010,729835	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ202	721010,729836	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ203	721010,729837	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ204	721010,729838	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ205	721010,729839	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ206	721010,729840	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ207	721010,729841	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ208	721010,729842	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ209	721010,729843	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ210	721010,729844	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ211	721010,729845	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ212	721010,729846	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ213	721010,729847	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ214	721010,729848	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ215	721010,729849	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ216	721010,729850	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ217	721010,729851	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ218	721010,729852	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ219	721010,729853	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ220	721010,729854	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ221	721010,729855	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ222	721010,729856	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ223	721010,729857	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ224	721010,729858	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ225	721010,729859	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ226	721010,729860	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ227	721010,729861	-0.3	-0.1	0.1	<1	Negligible	Negligible	Negligible
AQ228	721010,729862	-0.8	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ229	721010,729863	-0.5	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ230	721010,729864	0.6	<0.1	0.3	<1	Slight Adverse	Negligible	Negligible
AQ231	721010,729865	-1.3	-0.4	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ232	721010,729866	-0.3	-0.2	<0.1	<1	Negligible	Negligible	Negligible
AQ233	721010,729867	-0.3	-0.2	<0.1	<1	Negligible	Negligible	Negligible
AQ234	721010,729868	-1.1	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ235	721010,729869	-0.9	-0.3	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ236	721010,729870	-0.6	-0.1	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ237	721010,729871	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ238	721010,729872	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ239	721010,729873	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ240	721010,729874	-0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ241	721010,729875	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ242	721010,729876	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ243	721010,729877	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ244	721010,729878	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ245	721010,729879	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ246	721010,729880	-0.7	-0.1	0.1	<1	Negligible	Negligible	Negligible
AQ247	721010,729881	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ248	721010,729882	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	721010,729883	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	721010,729884	-1.7	-0.3	0.5	<1	Slight Beneficial	Negligible	Negligible
AQ251	721010,729885	-1.3	-0.2	0.2	<1	Slight Beneficial	Negligible	Negligible
AQ252	721010,729886	-1.9	-0.3	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ253	721010,729887	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ254	721010,729888	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ255	721010,729889	-2.7	-0.3	-0.2	<1	Moderate Beneficial	Negligible	Negligible
AQ256	721010,729890	-1.9	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ257	721010,729891	-1.8	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ258	721010,729892	-2.0	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ259	721010,729893	-2.6	-0.6	-0.3	<1	Moderate Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ260	721010,729894	-1.7	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ261	721010,729895	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ262	721010,729896	-1.9	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ263	721010,729897	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ264	721010,729898	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ265	721010,729899	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ266	721010,729900	-3.9	-0.6	-0.3	<1	Moderate Beneficial	Negligible	Negligible
AQ267	721010,729901	-2.7	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ268	721010,729902	-2.2	-0.4	-0.1	<1	Slight Beneficial	Negligible	Negligible
AQ269	721010,729903	-3.8	-0.6	-0.2	<1	Moderate Beneficial	Negligible	Negligible
AQ270	721010,729904	-2.7	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ271	721010,729905	-2.6	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ272	721010,729906	-2.6	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ273	721010,729907	-2.4	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ274	721010,729908	-4.4	-0.6	-0.4	<1	Moderate Beneficial	Negligible	Negligible
AQ275	721010,729909	-2.2	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ276	721010,729910	2.1	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ277	721010,729911	2.6	0.3	0.2	<1	Slight Adverse	Negligible	Negligible
AQ278	721010,729912	-6.1	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ279	721010,729913	-4.3	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ280	721010,729914	-4.3	-0.7	-0.4	<1	Moderate Beneficial	Negligible	Negligible
AQ281	721010,729915	-12.4	-1.6	-1.0	<1	Substantial Beneficial	Negligible	Negligible
AQ282	721010,729916	-9.2	-1.2	-0.8	<1	Slight Beneficial	Negligible	Negligible
AQ283	721010,729917	-6.0	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ284	721010,729918	-9.5	-1.4	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ285	721010,729919	-14.5	-2.2	-1.4	<1	Substantial Beneficial	Negligible	Negligible
AQ286	721010,729920	-4.1	-0.6	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ287	721010,729921	-9.6	-1.2	-0.6	<1	Substantial Beneficial	Negligible	Negligible
AQ288	721010,729922	-6.9	-0.9	-0.5	<1	Substantial Beneficial	Negligible	Negligible
AQ289	721010,729923	-6.8	-1.0	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ290	721010,729924	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ291	721010,729925	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ292	721010,729926	-1.4	-0.2	0.2	<1	Slight Beneficial	Negligible	Negligible
AQ293	721010,729927	-1.8	-0.2	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ294	721010,729928	-2.4	-0.3	0.3	<1	Moderate Beneficial	Negligible	Negligible



Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ295	721010,729929	-2.1	-0.3	<0.1	<1	Moderate Beneficial	Negligible	Negligible
AQ296	721010,729930	-3.8	-0.5	0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ297	721010,729931	-2.6	-0.4	0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ298	721010,729932	-3.2	-0.5	0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ299	721010,729933	-2.9	-0.4	0.5	<1	Moderate Beneficial	Negligible	Negligible
AQ300	721010,729934	-4.2	-0.6	0.6	<1	Substantial Beneficial	Negligible	Negligible
AQ301	721010,729935	-4.1	-0.5	0.6	<1	Substantial Beneficial	Negligible	Negligible
AQ302	721010,729936	-3.4	-0.4	0.4	<1	Moderate Beneficial	Negligible	Negligible
AQ303	721010,729937	-4.6	-0.6	0.6	<1	Substantial Beneficial	Negligible	Negligible
AQ304	721010,729938	-3.7	-0.5	0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ305	721010,729939	-4.5	-0.6	0.7	<1	Substantial Beneficial	Negligible	Negligible
AQ306	721010,729940	-2.3	-0.5	0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ307	721010,729941	-3.9	-0.6	0.4	<1	Moderate Beneficial	Negligible	Negligible
AQ308	721010,729942	1.5	0.2	0.2	<1	Negligible	Negligible	Negligible
AQ309	721010,729943	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ310	721010,729944	1.2	0.1	0.2	<1	Negligible	Negligible	Negligible
AQ311	721010,729945	1.2	0.2	0.2	<1	Negligible	Negligible	Negligible
AQ312	721010,729946	1.2	0.2	0.2	<1	Negligible	Negligible	Negligible
AQ313	721010,729947	1.3	0.2	0.2	<1	Negligible	Negligible	Negligible
AQ314	721010,729948	0.3	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ315	721010,729949	0.3	<0.1	0.2	<1	Negligible	Negligible	Negligible
AQ316	721010,729950	1.2	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ317	721010,729951	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ318	721010,729952	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ319	721010,729953	0.2	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ320	721010,729954	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ321	721010,729955	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ322	721010,729956	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ323	721010,729957	0.1	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ324	721010,729958	0.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ325	721010,729959	2.0	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ326	721010,729960	1.1	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ327	721010,729961	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ328	721010,729962	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ329	721010,729963	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ330	721010,729964	0.2	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ331	721010,729965	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ332	721010,729966	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ333	721010,729967	-0.9	-0.1	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ334	721010,729968	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ335	721010,729969	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ336	721010,729970	-1.6	-0.2	0.5	<1	Slight Beneficial	Negligible	Negligible
AQ337	721010,729971	-1.6	-0.2	0.1	<1	Slight Beneficial	Negligible	Negligible
AQ338	721010,729972	-1.8	-0.3	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ339	721010,729973	-1.7	-0.3	<0.1	<1	Slight Beneficial	Negligible	Negligible
AQ340	721010,729974	1.8	0.2	0.2	<1	Slight Adverse	Negligible	Negligible
AQ341	721010,729975	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ342	721010,729976	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ343	721010,729977	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ344	721010,729978	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ345	721010,729979	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ346	721010,729980	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ347	721010,729981	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ348	721010,729982	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ349	721010,729983	0.9	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ350	721010,729984	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ351	721010,729985	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ352	721010,729986	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ353	721010,729987	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ354	721010,729988	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ355	721010,729989	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ356	721010,729990	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ357	721010,729991	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ358	721010,729992	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ359	721010,729993	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ360	721010,729994	1.3	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ361	721010,729995	0.2	<0.1	0.1	<1	Negligible	Negligible	Negligible
AQ362	721010,729996	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ363	721010,729997	0.4	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ364	721010,729998	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ365	721010,729999	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ366	721010,730000	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ367	721010,730001	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No. of PM10 days >50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
AQ368	721010,730002	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ369	721010,730003	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ370	721010,730004	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ371	721010,730005	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ372	721010,730006	0.4	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ373	721010,730007	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ374	721010,730008	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ375	721010,730009	1.0	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ376	721010,730010	0.7	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ377	721010,730011	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ378	721010,730012	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ379	721010,730013	1.2	0.1	0.2	<1	Negligible	Negligible	Negligible
AQ380	721010,730014	1.0	0.1	0.1	<1	Negligible	Negligible	Negligible

The significance of the changes in the concentration of each of the ambient receptors has been determined in the context of the TII significance criteria (TII 2011), as described in Section 7.2.4.1.4 in Chapter 7 (Air Quality) in Volume 2. The majority of modelled receptors are estimated to experience a negligible impact due to the Proposed Scheme in terms of the annual mean NO<sub>2</sub> concentration. A slightly beneficial impact is estimated at 46 receptors, a moderate beneficial impact at 18 receptors and eight substantial beneficial impact. All beneficial impacts are modelled along the Proposed Scheme. A slight adverse impact is expected at 51 receptors, and a moderate adverse impact at eight receptors on the R135 Finglas Road, R108 Botanic Road and R108 Phibsborough Road. These localised moderate adverse impacts are considered negative, significant and short-term as NO<sub>2</sub> concentrations exceed the limit value but only occur during the short-term construction phase. The Proposed Scheme is overall neutral in terms of annual mean PM<sub>10</sub> and PM<sub>2.5</sub> concentrations, with all receptors experiencing a negligible impact.

## 2. Operational Traffic Assessment

### 2.1 'Do Minimum' Scenario

Predicted annual mean concentrations of NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and the number of exceedances of the 24-hour PM<sub>10</sub> objective, at all modelled existing air quality sensitive receptors in the cumulative 2028 DM scenario are listed in Table 2.1. Locations of these receptors are shown in Figure 7.3 to Figure 7.5 in Volume 3 of this EIAR.

**Table 2.1: Predicted Cumulative 2028 Do Minimum Operational Scenario Pollutant Statistics At All Modelled Receptor Locations**

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m <sup>3</sup> )			No. of PM <sub>10</sub> days >50 µg/m <sup>3</sup>
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ1	715367,737143	28.2	15.0	10.6	<1
AQ2	715405,737202	25.4	14.7	10.4	<1
AQ3	715087,736553	39.3	16.6	11.6	1
AQ4	715079,736527	38.7	16.6	11.6	1
AQ5	715066,736570	42.1	16.6	11.6	1
AQ6	715013,736516	40.7	16.9	11.7	1
AQ7	715127,736243	22.9	14.4	10.2	<1
AQ8	714992,736243	35.3	16.1	11.3	1
AQ9	715019,736244	46.0	17.8	12.3	1
AQ10	714997,736266	36.5	16.2	11.4	1
AQ11	715036,736390	51.5	17.0	11.9	1
AQ12	715005,736359	40.4	16.0	11.2	1
AQ13	715043,736434	46.6	16.8	11.7	1
AQ14	715039,736413	50.2	16.9	11.8	1
AQ15	715042,736487	45.8	17.3	12.0	1
AQ16	715031,736487	45.5	17.1	11.9	1
AQ17	715063,736482	46.8	17.5	12.1	1
AQ18	715013,736478	39.2	16.2	11.4	1
AQ19	715007,736458	35.7	15.7	11.0	1
AQ20	714991,734794	25.3	14.7	10.5	<1
AQ21	714973,734731	49.6	18.7	12.8	2
AQ22	715015,734796	24.9	14.7	10.4	<1
AQ23	715042,734747	49.9	18.9	12.9	2
AQ24	715021,734710	44.4	17.6	12.2	1
AQ25	714966,734791	26.7	14.9	10.6	<1
AQ26	714967,734805	26.4	14.9	10.5	<1
AQ27	714963,734840	26.9	14.9	10.6	<1
AQ28	714879,734648	50.3	18.5	12.7	2
AQ29	714933,734823	37.4	16.3	11.4	1
AQ30	714962,734854	26.3	14.9	10.5	<1
AQ31	714922,734731	41.3	17.1	11.9	1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ32	714879,734757	41.6	16.8	11.7	1
AQ33	714886,734787	42.7	16.9	11.8	1
AQ34	714868,734720	60.8	19.9	13.6	3
AQ35	714934,734702	39.5	16.9	11.7	1
AQ36	714861,734526	41.4	17.0	11.8	1
AQ37	715081,734346	29.9	15.3	10.8	<1
AQ38	715098,734328	23.2	14.4	10.3	<1
AQ39	714878,734543	50.6	18.4	12.7	2
AQ40	714855,734461	35.3	16.0	11.2	1
AQ41	714882,734463	40.1	16.6	11.6	1
AQ42	715090,734382	24.1	14.6	10.3	<1
AQ43	714878,734485	52.5	18.6	12.8	2
AQ44	714879,734603	48.5	18.1	12.5	2
AQ45	714879,734636	49.5	18.3	12.6	2
AQ46	715040,734582	24.2	14.6	10.3	<1
AQ47	715054,734524	24.0	14.5	10.3	<1
AQ48	715014,734688	32.5	15.7	11.1	1
AQ49	714852,734429	38.2	16.4	11.5	1
AQ50	714829,734297	42.0	17.0	11.8	1
AQ51	714813,734240	59.8	18.6	12.8	2
AQ52	714862,734650	38.7	16.6	11.6	1
AQ53	714930,735661	37.8	16.7	11.6	1
AQ54	715025,735693	22.3	14.3	10.2	<1
AQ55	714934,735443	34.6	16.5	11.5	1
AQ56	714921,735579	34.2	16.3	11.4	1
AQ57	714941,735567	36.1	16.7	11.6	1
AQ58	714924,735634	33.4	16.1	11.3	1
AQ59	714995,735557	21.9	14.3	10.2	<1
AQ60	714940,735556	36.3	16.8	11.6	1
AQ61	715006,735602	21.9	14.3	10.2	<1
AQ62	714948,735651	36.6	16.6	11.6	1
AQ63	714947,735623	35.1	16.4	11.4	1
AQ64	714951,735075	30.4	15.4	10.9	<1
AQ65	715013,735172	23.4	14.4	10.3	<1
AQ66	714947,735276	31.8	16.0	11.2	1
AQ67	714919,735282	30.2	15.7	11.0	1
AQ68	715021,735319	22.0	14.3	10.2	<1
AQ69	714983,735335	22.3	14.4	10.2	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ70	714939,735355	35.7	16.7	11.6	1
AQ71	714909,735428	31.0	15.9	11.1	1
AQ72	714988,735422	21.9	14.3	10.2	<1
AQ73	715021,735364	21.8	14.3	10.2	1
AQ74	714941,735350	34.6	16.5	11.5	1
AQ75	714984,735349	22.2	14.4	10.2	<1
AQ76	714909,735447	31.6	16.0	11.2	1
AQ77	715293,737083	24.2	14.6	10.3	<1
AQ78	715177,737114	22.2	14.3	10.2	<1
AQ79	715163,737145	22.0	14.3	10.2	<1
AQ80	715144,737111	21.5	14.2	10.1	1
AQ81	715290,737211	23.0	14.4	10.2	<1
AQ82	715347,737160	25.7	14.7	10.4	<1
AQ83	714970,736162	37.2	16.3	11.4	1
AQ84	714955,736106	38.5	16.4	11.4	1
AQ85	714989,736233	38.8	16.6	11.6	1
AQ86	714973,736173	33.6	15.8	11.1	1
AQ87	715004,736160	37.3	16.3	11.4	1
AQ88	715112,736223	23.1	14.4	10.3	<1
AQ89	715137,736797	24.7	14.6	10.4	<1
AQ90	715162,736781	25.8	14.8	10.5	<1
AQ91	715141,736805	24.8	14.6	10.4	<1
AQ92	715168,736799	25.7	14.8	10.5	<1
AQ93	715173,736886	25.4	14.7	10.4	<1
AQ94	715231,736947	26.6	14.9	10.5	<1
AQ95	715198,736881	26.4	14.8	10.5	<1
AQ96	715201,736958	24.1	14.5	10.3	<1
AQ97	715253,737014	24.4	14.6	10.4	<1
AQ98	715233,736996	24.3	14.6	10.3	<1
AQ99	715217,737019	23.9	14.5	10.3	<1
AQ100	715208,736990	23.3	14.4	10.3	<1
AQ101	715331,737143	24.5	14.6	10.4	<1
AQ102	715194,737012	22.4	14.3	10.2	<1
AQ103	715254,736967	24.9	14.6	10.4	<1
AQ104	714985,736585	47.1	18.0	12.4	2
AQ105	714971,736562	33.4	15.9	11.1	1
AQ106	715104,736604	41.3	16.1	11.3	1
AQ107	715073,736602	39.3	16.1	11.3	1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ108	715094,736577	42.0	16.3	11.4	1
AQ109	715079,736628	53.7	18.1	12.5	2
AQ110	715037,736623	42.5	17.1	11.9	1
AQ111	714922,736655	33.7	15.8	11.1	1
AQ112	714935,736628	32.6	15.8	11.1	1
AQ113	714908,736683	32.9	15.9	11.1	1
AQ114	714932,736700	39.1	16.9	11.7	1
AQ115	714942,736675	46.3	17.7	12.2	1
AQ116	714871,736757	24.6	14.7	10.4	<1
AQ117	714755,736779	23.8	14.6	10.4	<1
AQ118	714867,736710	23.6	14.5	10.3	<1
AQ119	715101,736694	26.1	14.8	10.5	<1
AQ120	715086,735971	27.4	14.9	10.5	<1
AQ121	715093,736100	23.5	14.5	10.3	<1
AQ122	714979,736090	42.0	16.5	11.5	1
AQ123	714979,735962	42.5	17.2	11.9	1
AQ124	715071,736007	24.7	14.6	10.4	<1
AQ125	715067,736024	24.0	14.5	10.3	<1
AQ126	714973,736042	51.3	18.6	12.8	2
AQ127	714961,735948	40.5	16.8	11.7	1
AQ128	714987,736629	39.3	16.9	11.7	1
AQ129	715001,736510	34.9	16.0	11.2	1
AQ130	714982,735770	42.8	17.3	12.0	1
AQ131	715040,735787	23.0	14.4	10.3	<1
AQ132	714977,735755	37.1	16.4	11.4	1
AQ133	714965,735877	40.5	16.8	11.7	1
AQ134	714984,735852	40.2	16.8	11.7	1
AQ135	714996,735909	52.8	18.5	12.8	2
AQ136	714949,735909	50.2	18.1	12.5	2
AQ137	715060,735903	31.1	15.4	10.8	<1
AQ138	715056,735882	27.5	14.9	10.6	<1
AQ139	714996,735890	46.1	17.5	12.1	1
AQ140	715091,735902	38.0	16.2	11.3	1
AQ141	714933,735676	42.3	16.9	11.8	1
AQ142	714955,735674	40.9	16.7	11.6	1
AQ143	714966,735785	35.0	16.1	11.2	1
AQ144	714953,735742	40.5	16.9	11.7	1
AQ145	714983,735786	38.0	16.5	11.5	1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ146	714935,734960	31.6	15.6	11.0	1
AQ147	714956,734916	47.5	18.1	12.5	2
AQ148	714922,734916	30.8	15.5	10.9	1
AQ149	714472,736949	22.8	14.4	10.3	<1
AQ150	714313,737120	23.2	14.5	10.3	<1
AQ151	715434,738674	26.2	15.0	10.6	<1
AQ152	715372,738863	23.3	14.5	10.3	<1
AQ153	715383,738759	23.4	14.5	10.3	<1
AQ154	715384,738655	23.2	14.5	10.3	<1
AQ155	715476,737643	25.9	14.8	10.5	<1
AQ156	715481,737594	23.9	14.5	10.3	<1
AQ157	715481,737594	23.9	14.5	10.3	<1
AQ158	715433,737920	27.8	15.0	10.6	<1
AQ159	715447,737859	25.5	14.7	10.4	<1
AQ160	715444,737620	23.6	14.5	10.3	<1
AQ161	715438,737675	23.1	14.4	10.3	<1
AQ162	715451,737821	25.3	14.7	10.4	<1
AQ163	715464,737747	25.3	14.7	10.4	<1
AQ164	715467,737724	25.5	14.7	10.4	<1
AQ165	715404,738140	25.3	14.8	10.5	<1
AQ166	715404,738108	25.7	14.8	10.5	<1
AQ167	715360,738284	24.8	14.8	10.5	<1
AQ168	715372,738462	24.3	14.7	10.4	<1
AQ169	715357,738177	25.1	14.8	10.5	<1
AQ170	715194,737262	21.6	14.2	10.1	1
AQ171	715236,737223	22.1	14.3	10.2	<1
AQ172	715175,737516	23.5	14.5	10.3	<1
AQ173	715178,737488	21.8	14.3	10.2	1
AQ174	715190,737457	22.3	14.3	10.2	<1
AQ175	715277,737200	22.3	14.3	10.2	<1
AQ176	715218,737212	22.2	14.3	10.2	<1
AQ177	715202,737773	21.7	14.2	10.2	1
AQ178	715342,737941	26.7	14.9	10.5	<1
AQ179	715315,737902	24.3	14.6	10.3	<1
AQ180	715275,737837	22.1	14.3	10.2	1
AQ181	715269,737897	22.4	14.3	10.2	<1
AQ182	715382,737333	23.1	14.5	10.3	<1
AQ183	715451,737821	25.3	14.7	10.4	<1



DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ184	715428,737722	23.1	14.4	10.2	<1
AQ185	715426,737732	23.0	14.4	10.2	<1
AQ186	715415,737814	23.4	14.5	10.3	<1
AQ187	715364,737295	22.4	14.4	10.2	<1
AQ188	715363,738002	25.8	14.8	10.5	<1
AQ189	715429,737551	23.2	14.5	10.3	<1
AQ190	715405,737461	22.8	14.4	10.3	<1
AQ191	715401,737878	24.6	14.6	10.4	<1
AQ192	715387,737927	27.1	14.9	10.5	<1
AQ193	715382,737998	25.3	14.7	10.4	<1
AQ194	715391,737396	22.9	14.4	10.3	<1
AQ195	715416,738010	25.9	14.8	10.5	<1
AQ196	715410,740446	26.2	14.9	10.5	<1
AQ197	715385,740597	26.0	14.9	10.5	<1
AQ198	715403,740362	24.3	14.6	10.4	<1
AQ199	715130,737642	22.6	14.4	10.2	<1
AQ200	715231,737459	21.8	14.3	10.2	1
AQ201	715226,737338	22.1	14.3	10.2	1
AQ202	715221,737400	22.4	14.3	10.2	<1
AQ203	715191,737420	21.7	14.2	10.2	1
AQ204	715182,737371	21.4	14.2	10.1	1
AQ205	715114,737548	22.4	14.3	10.2	<1
AQ206	715153,737684	21.9	14.3	10.2	1
AQ207	715502,739359	25.5	14.9	10.5	<1
AQ208	715408,739100	27.8	15.0	10.6	<1
AQ209	715493,739262	25.9	14.9	10.6	<1
AQ210	715368,738953	24.1	14.6	10.3	<1
AQ211	715434,739035	27.0	15.0	10.6	<1
AQ212	715452,739042	25.9	14.8	10.5	<1
AQ213	715416,738981	26.6	15.0	10.6	<1
AQ214	713910,737756	23.4	14.5	10.3	<1
AQ215	713962,737748	28.2	15.2	10.7	<1
AQ216	713991,737518	22.9	14.4	10.3	<1
AQ217	713176,738821	28.6	15.2	10.7	<1
AQ218	713196,738843	28.3	15.2	10.7	<1
AQ219	713839,738020	22.8	14.4	10.3	<1
AQ220	713797,738159	23.6	14.6	10.3	<1
AQ221	713742,738142	22.3	14.4	10.2	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ222	713329,738634	24.0	14.7	10.4	<1
AQ223	713049,738954	22.7	14.4	10.3	<1
AQ224	715314,737046	23.8	14.5	10.3	<1
AQ225	715359,737115	24.9	14.6	10.4	<1
AQ226	715433,739637	24.5	14.6	10.4	<1
AQ227	714782,734168	47.0	17.7	12.2	1
AQ228	714806,734148	52.4	18.6	12.8	2
AQ229	714790,734058	54.7	18.9	13.0	2
AQ230	714768,734036	49.1	17.8	12.3	1
AQ231	714815,733986	43.3	17.5	12.1	1
AQ232	714898,733940	37.3	16.4	11.4	1
AQ233	714868,733938	37.1	16.2	11.4	1
AQ234	715040,733934	46.1	17.5	12.1	1
AQ235	714960,733960	42.5	17.0	11.8	1
AQ236	715087,733873	38.5	16.5	11.5	1
AQ237	714703,734262	50.7	19.4	13.2	3
AQ238	714716,734342	24.6	14.6	10.4	<1
AQ239	714723,734337	24.6	14.6	10.4	<1
AQ240	714735,734416	24.9	14.6	10.4	<1
AQ241	714738,734493	23.2	14.4	10.3	<1
AQ242	714793,734626	26.0	14.8	10.5	<1
AQ243	714777,734605	24.7	14.6	10.4	<1
AQ244	714796,734634	26.8	14.9	10.5	<1
AQ245	714770,734550	24.2	14.6	10.3	<1
AQ246	714947,734693	36.8	16.4	11.4	1
AQ247	714953,734491	25.4	14.7	10.4	<1
AQ248	714951,734470	24.3	14.5	10.3	<1
AQ249	714958,734578	24.2	14.6	10.3	<1
AQ250	715173,734810	43.0	17.3	12.0	1
AQ251	715149,734779	39.6	16.9	11.7	1
AQ252	715114,734778	41.2	17.2	11.9	1
AQ253	714712,734756	30.2	15.5	10.9	<1
AQ254	714707,734771	33.8	16.1	11.2	1
AQ255	714517,734365	39.0	16.2	11.4	1
AQ256	714507,734382	35.1	15.9	11.2	1
AQ257	714516,734462	31.8	15.6	11.0	1
AQ258	714522,734505	33.4	15.9	11.1	1
AQ259	714538,734639	43.6	17.5	12.1	1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ260	714540,734541	37.9	16.6	11.5	1
AQ261	714663,734669	35.3	16.2	11.3	1
AQ262	714575,734672	37.6	16.5	11.5	1
AQ263	714676,734657	31.1	15.6	11.0	1
AQ264	714671,734746	30.0	15.4	10.9	<1
AQ265	714662,734762	33.4	16.0	11.2	1
AQ266	714404,734696	40.7	16.9	11.8	1
AQ267	714410,734682	34.9	16.3	11.3	1
AQ268	714392,734685	33.0	15.9	11.1	1
AQ269	714399,734732	44.5	17.2	12.0	1
AQ270	714339,734787	31.6	15.5	10.9	1
AQ271	714344,734781	31.7	15.5	10.9	1
AQ272	714379,734734	34.8	15.9	11.2	1
AQ273	714292,734856	29.8	15.4	10.8	<1
AQ274	714346,734806	38.2	16.5	11.5	1
AQ275	714259,734954	34.4	16.0	11.2	1
AQ276	714232,734942	29.9	15.4	10.8	<1
AQ277	714238,734930	31.8	15.6	11.0	1
AQ278	714216,735009	33.3	15.8	11.1	1
AQ279	714191,734990	30.2	15.4	10.8	<1
AQ280	714254,734966	38.7	16.7	11.6	1
AQ281	714176,735042	43.1	17.0	11.9	1
AQ282	714134,735080	34.7	16.0	11.2	1
AQ283	714121,735080	30.5	15.5	10.9	<1
AQ284	714021,735211	34.6	16.2	11.3	1
AQ285	714028,735223	43.7	17.6	12.2	1
AQ286	714012,735224	28.7	15.3	10.8	<1
AQ287	713935,735463	48.3	17.2	12.0	1
AQ288	713913,735489	49.1	17.3	12.0	1
AQ289	713973,735329	36.6	16.4	11.5	1
AQ290	714818,735878	25.8	14.8	10.5	<1
AQ291	714676,735906	25.5	14.9	10.5	<1
AQ292	715709,735720	52.3	18.2	12.5	2
AQ293	715700,735702	45.4	17.3	12.0	1
AQ294	715682,735736	44.2	17.3	12.0	1
AQ295	715667,735718	40.3	16.7	11.6	1
AQ296	715727,735815	53.0	18.5	12.7	2
AQ297	715744,735788	47.3	17.7	12.3	1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ298	715756,735810	46.4	17.7	12.2	1
AQ299	715718,735803	48.2	17.8	12.3	1
AQ300	715799,735893	46.0	17.8	12.3	1
AQ301	715769,735905	45.3	17.6	12.2	1
AQ302	715775,735917	41.3	16.9	11.8	1
AQ303	715814,735918	47.4	17.7	12.3	1
AQ304	715818,735992	44.3	17.3	12.0	1
AQ305	715846,735982	48.1	17.9	12.4	2
AQ306	715843,736047	53.3	19.1	13.0	2
AQ307	715872,736028	46.4	17.8	12.3	1
AQ308	715719,736094	27.4	15.0	10.6	<1
AQ309	715702,736101	25.9	14.9	10.5	<1
AQ310	715776,736219	26.5	14.8	10.5	<1
AQ311	715759,736226	26.3	14.8	10.5	<1
AQ312	715784,736236	26.6	14.8	10.5	<1
AQ313	715771,736252	26.9	14.9	10.5	<1
AQ314	715822,736361	23.4	14.4	10.3	<1
AQ315	715840,736353	23.4	14.4	10.3	<1
AQ316	715616,736364	26.4	14.8	10.5	<1
AQ317	715623,736322	25.9	14.8	10.5	<1
AQ318	715613,736350	25.1	14.7	10.4	<1
AQ319	715635,736434	22.6	14.4	10.2	<1
AQ320	715370,736516	23.5	14.5	10.3	<1
AQ321	715389,736493	22.6	14.3	10.2	<1
AQ322	715369,736493	22.6	14.3	10.2	<1
AQ323	715391,736518	23.0	14.4	10.2	<1
AQ324	715471,736389	23.1	14.4	10.3	<1
AQ325	715056,736459	46.3	17.1	11.9	1
AQ326	715249,736428	25.1	14.6	10.4	<1
AQ327	715248,736406	23.6	14.5	10.3	<1
AQ328	715200,736539	24.3	14.5	10.3	<1
AQ329	715192,736521	23.3	14.4	10.3	<1
AQ330	714753,736291	22.9	14.4	10.2	<1
AQ331	714757,736304	22.8	14.4	10.2	<1
AQ332	714737,736303	21.9	14.3	10.2	1
AQ333	714887,734697	44.8	17.5	12.1	1
AQ334	714918,734776	39.7	16.6	11.6	1
AQ335	714920,734871	35.3	16.2	11.3	1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ336	715161,734821	41.1	17.0	11.8	1
AQ337	715050,734723	39.5	17.0	11.8	1
AQ338	715051,734749	41.5	17.3	12.0	1
AQ339	715094,734741	39.5	16.9	11.8	1
AQ340	715098,736591	41.9	16.0	11.2	1
AQ341	713864,738074	24.1	14.6	10.4	<1
AQ342	712749,739812	28.1	15.3	10.8	<1
AQ343	712613,739799	22.6	14.4	10.2	<1
AQ344	712753,739720	24.7	14.8	10.5	<1
AQ345	715026,734392	23.0	14.4	10.2	<1
AQ346	714997,734396	23.6	14.5	10.3	<1
AQ347	714828,734792	25.1	14.6	10.4	<1
AQ348	715093,734269	24.1	14.6	10.3	<1
AQ349	714999,736553	31.7	15.6	11.0	1
AQ350	712507,739809	20.6	14.1	10.1	1
AQ351	714745,734486	23.5	14.5	10.3	<1
AQ352	715510,740236	28.4	15.3	10.8	<1
AQ353	715191,735865	29.8	15.3	10.8	<1
AQ354	714829,734740	32.6	15.7	11.0	1
AQ355	714829,734774	26.5	14.8	10.5	<1
AQ356	715571,737454	23.2	14.5	10.3	<1
AQ357	715238,737251	22.9	14.4	10.2	<1
AQ358	715309,737551	21.0	14.2	10.1	1
AQ359	715213,737647	20.9	14.2	10.1	1
AQ360	715472,737544	28.9	15.3	10.8	<1
AQ361	713269,739047	25.0	14.7	10.4	<1
AQ362	715655,738657	20.8	14.2	10.1	1
AQ363	714840,736724	23.2	14.5	10.3	<1
AQ364	715306,737965	24.9	14.7	10.4	<1
AQ365	715330,738134	22.4	14.4	10.2	<1
AQ366	715193,737898	21.4	14.2	10.1	1
AQ367	715005,737589	21.0	14.2	10.1	1
AQ368	713655,738228	23.4	14.5	10.3	<1
AQ369	713028,738778	22.2	14.4	10.2	<1
AQ370	715358,738994	22.7	14.4	10.2	<1
AQ371	715430,739469	22.4	14.4	10.2	<1
AQ372	715520,739462	23.0	14.5	10.3	<1
AQ373	714738,734460	23.6	14.5	10.3	<1

DM (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ374	714853,734440	25.5	14.7	10.4	<1
AQ375	715695,736814	25.0	14.7	10.4	<1
AQ376	715503,737018	23.8	14.5	10.3	<1
AQ377	715494,737000	22.1	14.3	10.2	<1
AQ378	715828,736777	23.9	14.5	10.3	<1
AQ379	715831,736757	22.9	14.4	10.2	<1
AQ380	715818,736759	22.7	14.3	10.2	<1
AQ381	714961,735923	45.7	17.5	12.1	1
AQ382	714983,735876	43.6	17.2	12.0	1
AQ383	714948,735892	42.9	17.0	11.8	1
AQ384	714980,735923	50.2	18.2	12.6	2
<b>Air Quality Limit Value Objective</b>		<b>40</b>	<b>40</b>	<b>25</b>	<b>35</b>

In the cumulative 2028 DM scenario 88 exceedances were modelled at receptors on R135 Finglas Road, R108 Botanic Road / Phibsborough Road / High Street, R101 North Circular Road, R805 Manor Street, Queen Street, Arran Quay and R132 Dorset Street / Bolton Street / Church Street. Annual mean  $\text{NO}_2$  concentrations exceeded  $60\mu\text{g}/\text{m}^3$  at one receptor on the R108 Phibsborough Road, indicating that exceedances of the  $\text{NO}_2$  1-hour mean may occur. Annual mean  $\text{PM}_{10}$  concentrations are below the relevant national air quality limit value objectives for all modelled receptors. At all receptors, modelling of the maximum 24-hour  $\text{PM}_{10}$  concentration indicated that there is likely to be no more than three exceedance of the  $50\mu\text{g}/\text{m}^3$  ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean  $\text{PM}_{2.5}$  concentrations are also below the relevant national air quality limit value limit value objectives for all modelled receptors.

## 2.2 ‘Do Something’ Scenario

Predicted annual mean concentrations of NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and the number of exceedances of the 24-hour PM<sub>10</sub> objective, at all modelled existing air quality sensitive receptors in the cumulative 2028 DS scenario are listed in Table 2.1 Table 2.2. Locations of these receptors are shown in Figure 7.3 to Figure 7.5 in Volume 3 of this EIAR.

**Table 2.2: Predicted Cumulative 2028 Do Something Operational Scenario Pollutant Statistics At All Modelled Receptor Locations**

Receptor	Receptor Location (ITM)	DS (2028)			No. of PM <sub>10</sub> days >50 µg/m <sup>3</sup>
		Annual Mean Conc. (µg/m <sup>3</sup> )			
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ1	715367,737143	26.2	14.8	10.5	<1
AQ2	715405,737202	23.9	14.5	10.3	<1
AQ3	715087,736553	38.3	16.1	11.3	1
AQ4	715079,736527	37.2	16.0	11.2	1
AQ5	715066,736570	42.1	16.4	11.5	1
AQ6	715013,736516	40.0	16.3	11.4	1
AQ7	715127,736243	23.6	14.4	10.3	<1
AQ8	714992,736243	33.4	15.7	11.0	1
AQ9	715019,736244	43.5	17.4	12.0	1
AQ10	714997,736266	34.7	16.0	11.2	1
AQ11	715036,736390	43.4	16.7	11.6	1
AQ12	715005,736359	35.8	15.8	11.1	1
AQ13	715043,736434	39.4	16.4	11.4	1
AQ14	715039,736413	42.2	16.6	11.6	1
AQ15	715042,736487	40.7	16.5	11.5	1
AQ16	715031,736487	40.7	16.4	11.5	1
AQ17	715063,736482	39.1	16.3	11.4	1
AQ18	715013,736478	35.7	15.8	11.1	1
AQ19	715007,736458	32.1	15.4	10.9	<1
AQ20	714991,734794	23.9	14.5	10.3	<1
AQ21	714973,734731	40.5	17.1	11.9	1
AQ22	715015,734796	23.7	14.5	10.3	<1
AQ23	715042,734747	43.5	17.7	12.2	1
AQ24	715021,734710	36.9	16.4	11.5	1
AQ25	714966,734791	24.7	14.6	10.4	<1
AQ26	714967,734805	24.3	14.6	10.3	<1
AQ27	714963,734840	24.3	14.5	10.3	<1
AQ28	714879,734648	42.1	17.2	11.9	1
AQ29	714933,734823	36.2	16.0	11.2	1
AQ30	714962,734854	24.4	14.6	10.3	<1
AQ31	714922,734731	37.7	16.3	11.4	1
AQ32	714879,734757	41.7	16.4	11.5	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ33	714886,734787	40.8	16.4	11.5	1
AQ34	714868,734720	58.7	18.9	13.0	2
AQ35	714934,734702	36.3	16.3	11.4	1
AQ36	714861,734526	36.0	16.2	11.4	1
AQ37	715081,734346	29.2	15.2	10.7	<1
AQ38	715098,734328	23.1	14.4	10.3	<1
AQ39	714878,734543	41.8	17.2	11.9	1
AQ40	714855,734461	34.0	15.8	11.1	1
AQ41	714882,734463	38.8	16.4	11.5	1
AQ42	715090,734382	23.4	14.4	10.3	<1
AQ43	714878,734485	49.1	17.9	12.4	2
AQ44	714879,734603	40.0	16.9	11.8	1
AQ45	714879,734636	40.9	17.1	11.8	1
AQ46	715040,734582	24.5	14.6	10.4	<1
AQ47	715054,734524	24.6	14.6	10.4	<1
AQ48	715014,734688	29.9	15.3	10.8	<1
AQ49	714852,734429	36.2	16.1	11.3	1
AQ50	714829,734297	39.3	16.6	11.6	1
AQ51	714813,734240	56.1	18.4	12.7	2
AQ52	714862,734650	34.6	16.0	11.2	1
AQ53	714930,735661	35.7	16.3	11.4	1
AQ54	715025,735693	22.0	14.3	10.2	1
AQ55	714934,735443	35.7	16.4	11.4	1
AQ56	714921,735579	34.0	16.2	11.3	1
AQ57	714941,735567	36.5	16.6	11.5	1
AQ58	714924,735634	33.0	16.0	11.2	1
AQ59	714995,735557	21.9	14.3	10.2	1
AQ60	714940,735556	37.2	16.7	11.6	1
AQ61	715006,735602	21.7	14.3	10.2	1
AQ62	714948,735651	36.2	16.5	11.5	1
AQ63	714947,735623	34.5	16.3	11.3	1
AQ64	714951,735075	29.3	15.2	10.8	<1
AQ65	715013,735172	23.1	14.4	10.2	<1
AQ66	714947,735276	32.1	15.9	11.1	1
AQ67	714919,735282	30.3	15.6	10.9	1
AQ68	715021,735319	22.0	14.3	10.2	<1
AQ69	714983,735335	22.3	14.4	10.2	<1
AQ70	714939,735355	37.8	16.9	11.7	1



DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ71	714909,735428	31.6	15.8	11.0	1
AQ72	714988,735422	21.9	14.3	10.2	<1
AQ73	715021,735364	21.7	14.3	10.2	1
AQ74	714941,735350	36.3	16.6	11.5	1
AQ75	714984,735349	22.2	14.3	10.2	<1
AQ76	714909,735447	32.3	15.9	11.1	1
AQ77	715293,737083	23.0	14.4	10.2	<1
AQ78	715177,737114	22.2	14.3	10.2	<1
AQ79	715163,737145	22.1	14.3	10.2	<1
AQ80	715144,737111	21.3	14.2	10.1	1
AQ81	715290,737211	23.2	14.4	10.3	<1
AQ82	715347,737160	24.7	14.6	10.4	<1
AQ83	714970,736162	39.4	16.3	11.4	1
AQ84	714955,736106	43.7	16.8	11.7	1
AQ85	714989,736233	36.8	16.2	11.3	1
AQ86	714973,736173	35.1	15.8	11.1	1
AQ87	715004,736160	39.2	16.3	11.4	1
AQ88	715112,736223	23.8	14.5	10.3	<1
AQ89	715137,736797	23.8	14.5	10.3	<1
AQ90	715162,736781	24.8	14.6	10.4	<1
AQ91	715141,736805	23.8	14.5	10.3	<1
AQ92	715168,736799	24.5	14.6	10.4	<1
AQ93	715173,736886	24.2	14.5	10.3	<1
AQ94	715231,736947	24.9	14.6	10.4	<1
AQ95	715198,736881	25.0	14.6	10.4	<1
AQ96	715201,736958	23.7	14.5	10.3	<1
AQ97	715253,737014	23.4	14.5	10.3	<1
AQ98	715233,736996	23.7	14.5	10.3	<1
AQ99	715217,737019	23.7	14.5	10.3	<1
AQ100	715208,736990	23.0	14.4	10.2	<1
AQ101	715331,737143	23.6	14.5	10.3	<1
AQ102	715194,737012	22.2	14.3	10.2	<1
AQ103	715254,736967	24.1	14.5	10.3	<1
AQ104	714985,736585	48.1	17.3	12.0	1
AQ105	714971,736562	33.6	15.5	10.9	1
AQ106	715104,736604	38.4	15.9	11.2	1
AQ107	715073,736602	37.2	15.8	11.1	1
AQ108	715094,736577	41.7	16.3	11.4	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ109	715079,736628	45.7	17.2	11.9	1
AQ110	715037,736623	37.7	16.3	11.4	1
AQ111	714922,736655	30.8	15.4	10.8	<1
AQ112	714935,736628	31.6	15.4	10.9	<1
AQ113	714908,736683	29.3	15.4	10.8	<1
AQ114	714932,736700	33.5	16.2	11.3	1
AQ115	714942,736675	39.6	16.7	11.6	1
AQ116	714871,736757	23.0	14.5	10.3	<1
AQ117	714755,736779	22.5	14.4	10.3	<1
AQ118	714867,736710	22.4	14.4	10.2	<1
AQ119	715101,736694	25.1	14.6	10.4	<1
AQ120	715086,735971	28.9	14.9	10.6	<1
AQ121	715093,736100	24.3	14.5	10.3	<1
AQ122	714979,736090	43.7	16.5	11.5	1
AQ123	714979,735962	48.6	17.0	11.8	1
AQ124	715071,736007	25.5	14.6	10.4	<1
AQ125	715067,736024	24.7	14.5	10.3	<1
AQ126	714973,736042	61.0	18.4	12.7	2
AQ127	714961,735948	45.7	16.7	11.6	1
AQ128	714987,736629	36.4	16.2	11.3	1
AQ129	715001,736510	34.3	15.6	11.0	1
AQ130	714982,735770	41.7	17.0	11.8	1
AQ131	715040,735787	22.9	14.4	10.2	<1
AQ132	714977,735755	35.7	16.2	11.3	1
AQ133	714965,735877	42.9	16.6	11.6	1
AQ134	714984,735852	41.6	16.6	11.6	1
AQ135	714996,735909	55.8	18.3	12.6	2
AQ136	714949,735909	57.4	17.8	12.4	2
AQ137	715060,735903	31.5	15.3	10.8	<1
AQ138	715056,735882	27.7	14.9	10.5	<1
AQ139	714996,735890	48.2	17.3	12.0	1
AQ140	715091,735902	39.6	16.2	11.4	1
AQ141	714933,735676	36.2	16.3	11.4	1
AQ142	714955,735674	37.1	16.4	11.5	1
AQ143	714966,735785	34.6	15.9	11.1	1
AQ144	714953,735742	37.5	16.4	11.5	1
AQ145	714983,735786	37.7	16.3	11.4	1
AQ146	714935,734960	30.4	15.4	10.8	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ147	714956,734916	47.2	17.9	12.4	2
AQ148	714922,734916	29.7	15.3	10.8	<1
AQ149	714472,736949	22.0	14.3	10.2	<1
AQ150	714313,737120	22.4	14.4	10.2	<1
AQ151	715434,738674	25.3	14.7	10.4	<1
AQ152	715372,738863	22.3	14.4	10.2	<1
AQ153	715383,738759	22.5	14.4	10.2	<1
AQ154	715384,738655	22.7	14.4	10.2	<1
AQ155	715476,737643	24.3	14.6	10.4	<1
AQ156	715481,737594	22.9	14.4	10.3	<1
AQ157	715481,737594	22.9	14.4	10.3	<1
AQ158	715433,737920	26.8	14.8	10.5	<1
AQ159	715447,737859	24.4	14.6	10.3	<1
AQ160	715444,737620	22.6	14.4	10.2	<1
AQ161	715438,737675	22.3	14.3	10.2	<1
AQ162	715451,737821	24.2	14.5	10.3	<1
AQ163	715464,737747	24.0	14.5	10.3	<1
AQ164	715467,737724	23.9	14.5	10.3	<1
AQ165	715404,738140	23.6	14.6	10.3	<1
AQ166	715404,738108	23.8	14.6	10.3	<1
AQ167	715360,738284	23.6	14.5	10.3	<1
AQ168	715372,738462	22.8	14.4	10.3	<1
AQ169	715357,738177	23.4	14.5	10.3	<1
AQ170	715194,737262	21.6	14.2	10.1	1
AQ171	715236,737223	22.1	14.3	10.2	<1
AQ172	715175,737516	27.6	15.0	10.6	<1
AQ173	715178,737488	23.3	14.4	10.3	<1
AQ174	715190,737457	23.8	14.5	10.3	<1
AQ175	715277,737200	22.4	14.3	10.2	<1
AQ176	715218,737212	22.3	14.3	10.2	<1
AQ177	715202,737773	21.3	14.2	10.1	1
AQ178	715342,737941	27.1	14.8	10.5	<1
AQ179	715315,737902	24.5	14.5	10.3	<1
AQ180	715275,737837	21.7	14.2	10.1	1
AQ181	715269,737897	22.3	14.3	10.2	<1
AQ182	715382,737333	22.3	14.4	10.2	<1
AQ183	715451,737821	24.2	14.5	10.3	<1
AQ184	715428,737722	22.3	14.3	10.2	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ185	715426,737732	22.3	14.3	10.2	<1
AQ186	715415,737814	22.7	14.4	10.2	<1
AQ187	715364,737295	21.8	14.3	10.2	1
AQ188	715363,738002	24.6	14.6	10.3	<1
AQ189	715429,737551	22.4	14.4	10.2	<1
AQ190	715405,737461	22.1	14.3	10.2	<1
AQ191	715401,737878	24.2	14.5	10.3	<1
AQ192	715387,737927	27.9	14.8	10.5	<1
AQ193	715382,737998	24.1	14.5	10.3	<1
AQ194	715391,737396	22.1	14.3	10.2	<1
AQ195	715416,738010	24.3	14.5	10.3	<1
AQ196	715410,740446	21.5	14.2	10.1	1
AQ197	715385,740597	20.6	14.1	10.1	1
AQ198	715403,740362	22.9	14.5	10.3	<1
AQ199	715130,737642	21.8	14.3	10.2	1
AQ200	715231,737459	22.3	14.3	10.2	<1
AQ201	715226,737338	22.1	14.3	10.2	<1
AQ202	715221,737400	22.7	14.4	10.2	<1
AQ203	715191,737420	21.8	14.3	10.2	1
AQ204	715182,737371	21.4	14.2	10.1	1
AQ205	715114,737548	24.8	14.6	10.4	<1
AQ206	715153,737684	21.2	14.2	10.1	1
AQ207	715502,739359	24.4	14.7	10.4	<1
AQ208	715408,739100	26.7	14.9	10.5	<1
AQ209	715493,739262	24.5	14.7	10.4	<1
AQ210	715368,738953	22.6	14.4	10.3	<1
AQ211	715434,739035	25.9	14.8	10.5	<1
AQ212	715452,739042	25.1	14.7	10.4	<1
AQ213	715416,738981	25.9	14.9	10.6	<1
AQ214	713910,737756	22.7	14.4	10.2	<1
AQ215	713962,737748	26.5	14.9	10.6	<1
AQ216	713991,737518	22.2	14.3	10.2	<1
AQ217	713176,738821	28.7	15.1	10.7	<1
AQ218	713196,738843	29.7	15.3	10.8	<1
AQ219	713839,738020	22.0	14.3	10.2	<1
AQ220	713797,738159	21.9	14.4	10.2	<1
AQ221	713742,738142	21.2	14.3	10.1	1
AQ222	713329,738634	22.4	14.4	10.2	<1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ223	713049,738954	22.2	14.4	10.2	<1
AQ224	715314,737046	22.8	14.4	10.2	<1
AQ225	715359,737115	23.7	14.5	10.3	<1
AQ226	715433,739637	23.7	14.4	10.3	<1
AQ227	714782,734168	43.4	17.2	11.9	1
AQ228	714806,734148	46.9	17.6	12.2	1
AQ229	714790,734058	48.1	17.7	12.3	1
AQ230	714768,734036	48.2	17.5	12.1	1
AQ231	714815,733986	33.6	15.9	11.1	1
AQ232	714898,733940	30.0	15.2	10.7	<1
AQ233	714868,733938	30.3	15.2	10.7	<1
AQ234	715040,733934	38.0	15.9	11.1	1
AQ235	714960,733960	34.1	15.5	10.9	1
AQ236	715087,733873	33.7	15.5	10.9	1
AQ237	714703,734262	53.3	19.9	13.5	3
AQ238	714716,734342	24.3	14.6	10.4	<1
AQ239	714723,734337	24.3	14.6	10.4	<1
AQ240	714735,734416	24.6	14.6	10.4	<1
AQ241	714738,734493	23.2	14.4	10.3	<1
AQ242	714793,734626	25.9	14.8	10.5	<1
AQ243	714777,734605	24.7	14.6	10.4	<1
AQ244	714796,734634	26.7	14.8	10.5	<1
AQ245	714770,734550	24.2	14.5	10.3	<1
AQ246	714947,734693	35.4	16.1	11.3	1
AQ247	714953,734491	27.9	14.9	10.6	<1
AQ248	714951,734470	25.2	14.6	10.4	<1
AQ249	714958,734578	24.6	14.6	10.4	<1
AQ250	715173,734810	41.4	17.0	11.8	1
AQ251	715149,734779	36.1	16.3	11.4	1
AQ252	715114,734778	37.1	16.6	11.5	1
AQ253	714712,734756	27.9	15.1	10.7	<1
AQ254	714707,734771	30.6	15.5	10.9	1
AQ255	714517,734365	34.8	15.8	11.1	1
AQ256	714507,734382	32.1	15.5	10.9	1
AQ257	714516,734462	27.8	15.0	10.6	<1
AQ258	714522,734505	28.8	15.2	10.7	<1
AQ259	714538,734639	35.8	16.1	11.3	1
AQ260	714540,734541	32.2	15.6	11.0	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ261	714663,734669	31.7	15.8	11.0	1
AQ262	714575,734672	33.2	15.9	11.1	1
AQ263	714676,734657	28.8	15.3	10.8	<1
AQ264	714671,734746	27.7	15.1	10.6	<1
AQ265	714662,734762	30.2	15.4	10.8	<1
AQ266	714404,734696	35.6	15.6	11.0	1
AQ267	714410,734682	33.6	15.3	10.8	<1
AQ268	714392,734685	30.8	15.0	10.6	<1
AQ269	714399,734732	35.1	15.5	10.9	1
AQ270	714339,734787	25.2	14.7	10.4	<1
AQ271	714344,734781	25.3	14.7	10.4	<1
AQ272	714379,734734	28.6	14.9	10.6	<1
AQ273	714292,734856	24.3	14.5	10.3	<1
AQ274	714346,734806	27.6	15.0	10.6	<1
AQ275	714259,734954	26.6	14.8	10.5	<1
AQ276	714232,734942	25.8	14.7	10.4	<1
AQ277	714238,734930	26.8	14.8	10.5	<1
AQ278	714216,735009	24.2	14.6	10.3	<1
AQ279	714191,734990	23.7	14.5	10.3	<1
AQ280	714254,734966	28.3	15.0	10.6	<1
AQ281	714176,735042	26.4	14.8	10.5	<1
AQ282	714134,735080	24.3	14.6	10.3	<1
AQ283	714121,735080	23.2	14.5	10.3	<1
AQ284	714021,735211	24.0	14.6	10.4	<1
AQ285	714028,735223	27.3	15.1	10.7	<1
AQ286	714012,735224	23.5	14.5	10.3	<1
AQ287	713935,735463	30.6	15.3	10.8	<1
AQ288	713913,735489	32.6	15.4	10.9	<1
AQ289	713973,735329	27.4	15.1	10.6	<1
AQ290	714818,735878	27.0	14.7	10.5	<1
AQ291	714676,735906	25.6	14.8	10.5	<1
AQ292	715709,735720	42.8	16.6	11.6	1
AQ293	715700,735702	37.5	16.0	11.2	1
AQ294	715682,735736	36.9	15.9	11.2	1
AQ295	715667,735718	33.9	15.7	11.0	1
AQ296	715727,735815	46.5	16.9	11.7	1
AQ297	715744,735788	40.8	16.2	11.3	1
AQ298	715756,735810	40.0	16.2	11.3	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ299	715718,735803	42.2	16.4	11.4	1
AQ300	715799,735893	39.6	16.2	11.3	1
AQ301	715769,735905	39.3	16.1	11.3	1
AQ302	715775,735917	36.8	15.8	11.1	1
AQ303	715814,735918	42.0	16.2	11.4	1
AQ304	715818,735992	44.3	16.2	11.4	1
AQ305	715846,735982	48.7	16.6	11.6	1
AQ306	715843,736047	49.4	17.3	12.0	1
AQ307	715872,736028	45.4	16.5	11.5	1
AQ308	715719,736094	24.5	14.6	10.4	<1
AQ309	715702,736101	23.8	14.6	10.3	<1
AQ310	715776,736219	22.3	14.3	10.2	<1
AQ311	715759,736226	22.2	14.3	10.2	<1
AQ312	715784,736236	22.4	14.3	10.2	<1
AQ313	715771,736252	22.4	14.3	10.2	<1
AQ314	715822,736361	22.1	14.3	10.2	1
AQ315	715840,736353	21.9	14.3	10.2	1
AQ316	715616,736364	22.0	14.3	10.2	1
AQ317	715623,736322	21.9	14.3	10.2	1
AQ318	715613,736350	21.8	14.3	10.2	1
AQ319	715635,736434	21.8	14.3	10.2	1
AQ320	715370,736516	22.9	14.4	10.2	<1
AQ321	715389,736493	22.0	14.3	10.2	1
AQ322	715369,736493	22.0	14.3	10.2	1
AQ323	715391,736518	22.5	14.3	10.2	<1
AQ324	715471,736389	21.5	14.2	10.1	1
AQ325	715056,736459	38.2	16.3	11.4	1
AQ326	715249,736428	22.1	14.3	10.2	1
AQ327	715248,736406	22.0	14.3	10.2	1
AQ328	715200,736539	23.6	14.5	10.3	<1
AQ329	715192,736521	22.7	14.3	10.2	<1
AQ330	714753,736291	21.5	14.2	10.1	1
AQ331	714757,736304	21.4	14.2	10.1	1
AQ332	714737,736303	21.3	14.2	10.1	1
AQ333	714887,734697	39.7	16.6	11.6	1
AQ334	714918,734776	39.2	16.2	11.3	1
AQ335	714920,734871	34.6	15.9	11.1	1
AQ336	715161,734821	39.6	16.7	11.6	1

DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ337	715050,734723	35.2	16.3	11.4	1
AQ338	715051,734749	37.0	16.6	11.5	1
AQ339	715094,734741	35.5	16.3	11.4	1
AQ340	715098,736591	41.1	16.2	11.3	1
AQ341	713864,738074	22.4	14.5	10.3	<1
AQ342	712749,739812	29.8	15.4	10.9	<1
AQ343	712613,739799	22.7	14.4	10.2	<1
AQ344	712753,739720	28.7	15.3	10.8	<1
AQ345	715026,734392	23.0	14.4	10.2	<1
AQ346	714997,734396	23.7	14.5	10.3	<1
AQ347	714828,734792	23.9	14.5	10.3	<1
AQ348	715093,734269	24.2	14.6	10.3	<1
AQ349	714999,736553	31.2	15.2	10.8	<1
AQ350	712507,739809	20.9	14.2	10.1	1
AQ351	714745,734486	23.6	14.5	10.3	<1
AQ352	715510,740236	26.7	15.1	10.7	<1
AQ353	715191,735865	29.7	15.3	10.8	<1
AQ354	714829,734740	31.0	15.4	10.9	<1
AQ355	714829,734774	24.9	14.6	10.4	<1
AQ356	715571,737454	22.6	14.4	10.2	<1
AQ357	715238,737251	23.1	14.4	10.3	<1
AQ358	715309,737551	21.0	14.2	10.1	1
AQ359	715213,737647	21.0	14.2	10.1	1
AQ360	715472,737544	26.7	15.0	10.6	<1
AQ361	713269,739047	25.5	14.8	10.5	<1
AQ362	715655,738657	20.6	14.1	10.1	1
AQ363	714840,736724	22.2	14.4	10.2	<1
AQ364	715306,737965	24.4	14.5	10.3	<1
AQ365	715330,738134	21.7	14.3	10.2	1
AQ366	715193,737898	21.4	14.2	10.1	1
AQ367	715005,737589	21.1	14.2	10.1	1
AQ368	713655,738228	20.5	14.1	10.1	1
AQ369	713028,738778	21.7	14.3	10.2	1
AQ370	715358,738994	22.1	14.3	10.2	<1
AQ371	715430,739469	21.7	14.3	10.2	1
AQ372	715520,739462	22.2	14.4	10.2	<1
AQ373	714738,734460	23.8	14.5	10.3	<1
AQ374	714853,734440	24.9	14.6	10.4	<1



DS (2028)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days $>50 \mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ375	715695,736814	25.1	14.7	10.4	<1
AQ376	715503,737018	23.8	14.5	10.3	<1
AQ377	715494,737000	22.0	14.3	10.2	1
AQ378	715828,736777	24.1	14.5	10.3	<1
AQ379	715831,736757	23.2	14.4	10.2	<1
AQ380	715818,736759	22.9	14.4	10.2	<1
AQ381	714961,735923	51.7	17.3	12.0	1
AQ382	714983,735876	45.8	17.0	11.9	1
AQ383	714948,735892	47.5	16.8	11.7	1
AQ384	714980,735923	56.5	18.0	12.5	2
<b>Air Quality Limit Value Objective</b>		<b>40</b>	<b>40</b>	<b>25</b>	<b>35</b>

In the cumulative 2028 DS scenario annual mean concentrations of  $\text{NO}_2$  are above the relevant national air quality limit value objective in some areas; 53 exceedances were modelled at receptors on the R135 Finglas Road, R108 Botanic Road / Phibsborough Road / High Street, Arran Quay and R132 Dorset Street / Bolton Street / Church Street. This is a reduction from 88 exceedances in the DM scenario. Annual mean  $\text{NO}_2$  concentrations exceeded  $60\mu\text{g}/\text{m}^3$  at one receptor on the R108 Phibsborough Road, indicating that exceedances of the  $\text{NO}_2$  1-hour mean may occur. Annual mean  $\text{PM}_{10}$  concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour  $\text{PM}_{10}$  concentration indicated that there is likely to be no more than three exceedance of the  $50\mu\text{g}/\text{m}^3$  ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean  $\text{PM}_{2.5}$  concentrations are also below the relevant national air quality limit value objective for all modelled receptors.

## 2.3 Comparison of Do Something with Do Minimum

Table 2.3 provides the predicted change in and impact on pollutant concentrations, between the cumulative DM and DS in 2028. Pollutant concentrations have been outlined to one decimal place, where '<0.1' is reported, the pollutant concentration is considered to be less than this amount (i.e. two or more decimal places).

**Table 2.3: Predicted Changes in Cumulative Operational DM and DS and Impact Significance Criteria At All Modelled Receptor Locations**

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ1	721010,729635	-1.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ2	721010,729636	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ3	721010,729637	-0.9	-0.5	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ4	721010,729638	-1.5	-0.6	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ5	721010,729639	-0.1	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ6	721010,729640	-0.6	-0.6	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ7	721010,729641	0.7	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ8	721010,729642	-2.0	-0.3	-0.2	0	Negligible	Negligible	Negligible
AQ9	721010,729643	-2.4	-0.4	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ10	721010,729644	-1.8	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ11	721010,729645	-8.1	-0.3	-0.2	0	Substantial Beneficial	Negligible	Negligible
AQ12	721010,729646	-4.6	-0.2	-0.2	0	Substantial Beneficial	Negligible	Negligible
AQ13	721010,729647	-7.2	-0.4	-0.3	0	Substantial Beneficial	Negligible	Negligible
AQ14	721010,729648	-8.0	-0.4	-0.2	0	Substantial Beneficial	Negligible	Negligible
AQ15	721010,729649	-5.1	-0.8	-0.5	0	Substantial Beneficial	Negligible	Negligible
AQ16	721010,729650	-4.8	-0.7	-0.4	0	Substantial Beneficial	Negligible	Negligible
AQ17	721010,729651	-7.7	-1.2	-0.7	0	Substantial Beneficial	Negligible	Negligible
AQ18	721010,729652	-3.5	-0.4	-0.3	0	Moderate Beneficial	Negligible	Negligible
AQ19	721010,729653	-3.6	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ20	721010,729654	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ21	721010,729655	-9.1	-1.6	-1.0	-1	Substantial Beneficial	Negligible	Negligible
AQ22	721010,729656	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ23	721010,729657	-6.4	-1.1	-0.7	-1	Substantial Beneficial	Negligible	Negligible
AQ24	721010,729658	-7.6	-1.2	-0.7	0	Substantial Beneficial	Negligible	Negligible
AQ25	721010,729659	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ26	721010,729660	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ27	721010,729661	-2.6	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ28	721010,729662	-8.3	-1.3	-0.8	-1	Substantial Beneficial	Negligible	Negligible
AQ29	721010,729663	-1.2	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ30	721010,729664	-1.8	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ31	721010,729665	-3.5	-0.7	-0.4	0	Moderate Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ32	721010,729666	0.1	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ33	721010,729667	-1.9	-0.5	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ34	721010,729668	-2.1	-1.0	-0.6	-1	Moderate Beneficial	Negligible	Negligible
AQ35	721010,729669	-3.2	-0.6	-0.3	0	Moderate Beneficial	Negligible	Negligible
AQ36	721010,729670	-5.5	-0.7	-0.5	0	Substantial Beneficial	Negligible	Negligible
AQ37	721010,729671	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ38	721010,729672	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ39	721010,729673	-8.8	-1.2	-0.8	-1	Substantial Beneficial	Negligible	Negligible
AQ40	721010,729674	-1.4	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ41	721010,729675	-1.3	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ42	721010,729676	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ43	721010,729677	-3.4	-0.6	-0.4	0	Moderate Beneficial	Negligible	Negligible
AQ44	721010,729678	-8.5	-1.2	-0.7	-1	Substantial Beneficial	Negligible	Negligible
AQ45	721010,729679	-8.6	-1.2	-0.8	-1	Substantial Beneficial	Negligible	Negligible
AQ46	721010,729680	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ47	721010,729681	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ48	721010,729682	-2.7	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ49	721010,729683	-2.1	-0.3	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ50	721010,729684	-2.7	-0.3	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ51	721010,729685	-3.7	-0.2	-0.1	0	Moderate Beneficial	Negligible	Negligible
AQ52	721010,729686	-4.1	-0.6	-0.4	0	Moderate Beneficial	Negligible	Negligible
AQ53	721010,729687	-2.2	-0.3	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ54	721010,729688	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ55	721010,729689	1.1	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ56	721010,729690	-0.3	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ57	721010,729691	0.4	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ58	721010,729692	-0.5	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ59	721010,729693	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ60	721010,729694	0.9	-0.1	<0.1	0	Slight Adverse	Negligible	Negligible
AQ61	721010,729695	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ62	721010,729696	-0.4	-0.2	-0.1	0	Slight Beneficial	Negligible	Negligible
AQ63	721010,729697	-0.5	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ64	721010,729698	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ65	721010,729699	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ66	721010,729700	0.3	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ67	721010,729701	0.1	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ68	721010,729702	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ69	721010,729703	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible

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		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ70	721010,729704	2.1	0.1	0.1	0	Moderate Adverse	Negligible	Negligible
AQ71	721010,729705	0.6	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ72	721010,729706	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ73	721010,729707	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ74	721010,729708	1.8	0.1	0.1	0	Slight Adverse	Negligible	Negligible
AQ75	721010,729709	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ76	721010,729710	0.7	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ77	721010,729711	-1.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ78	721010,729712	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ79	721010,729713	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ80	721010,729714	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ81	721010,729715	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ82	721010,729716	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ83	721010,729717	2.2	<0.1	<0.1	0	Moderate Adverse	Negligible	Negligible
AQ84	721010,729718	5.2	0.4	0.3	0	Substantial Adverse	Negligible	Negligible
AQ85	721010,729719	-2.0	-0.4	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ86	721010,729720	1.6	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ87	721010,729721	1.9	-0.1	<0.1	0	Slight Adverse	Negligible	Negligible
AQ88	721010,729722	0.7	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ89	721010,729723	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ90	721010,729724	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ91	721010,729725	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ92	721010,729726	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ93	721010,729727	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ94	721010,729728	-1.7	-0.2	-0.2	<1	Negligible	Negligible	Negligible
AQ95	721010,729729	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ96	721010,729730	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ97	721010,729731	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ98	721010,729732	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ99	721010,729733	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ100	721010,729734	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ101	721010,729735	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ102	721010,729736	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ103	721010,729737	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ104	721010,729738	1.0	-0.8	-0.4	-1	Slight Adverse	Negligible	Negligible
AQ105	721010,729739	0.2	-0.3	-0.2	0	Negligible	Negligible	Negligible
AQ106	721010,729740	-2.9	-0.2	-0.1	0	Moderate Beneficial	Negligible	Negligible
AQ107	721010,729741	-2.1	-0.3	-0.1	0	Moderate Beneficial	Negligible	Negligible

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		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ108	721010,729742	-0.3	0.1	0.1	0	Negligible	Negligible	Negligible
AQ109	721010,729743	-7.9	-1.0	-0.6	-1	Substantial Beneficial	Negligible	Negligible
AQ110	721010,729744	-4.8	-0.8	-0.5	0	Substantial Beneficial	Negligible	Negligible
AQ111	721010,729745	-2.9	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ112	721010,729746	-1.0	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ113	721010,729747	-3.5	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ114	721010,729748	-5.6	-0.8	-0.5	0	Moderate Beneficial	Negligible	Negligible
AQ115	721010,729749	-6.7	-1.0	-0.6	0	Substantial Beneficial	Negligible	Negligible
AQ116	721010,729750	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ117	721010,729751	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ118	721010,729752	-1.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ119	721010,729753	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ120	721010,729754	1.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ121	721010,729755	0.9	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ122	721010,729756	1.6	<0.1	<0.1	0	Slight Adverse	Negligible	Negligible
AQ123	721010,729757	6.1	-0.2	-0.1	0	Substantial Adverse	Negligible	Negligible
AQ124	721010,729758	0.9	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ125	721010,729759	0.7	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ126	721010,729760	9.6	-0.2	-0.1	0	Substantial Adverse	Negligible	Negligible
AQ127	721010,729761	5.3	-0.1	-0.1	0	Substantial Adverse	Negligible	Negligible
AQ128	721010,729762	-2.8	-0.7	-0.4	0	Moderate Beneficial	Negligible	Negligible
AQ129	721010,729763	-0.6	-0.4	-0.2	0	Negligible	Negligible	Negligible
AQ130	721010,729764	-1.1	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ131	721010,729765	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ132	721010,729766	-1.4	-0.2	-0.1	0	Slight Beneficial	Negligible	Negligible
AQ133	721010,729767	2.4	-0.2	-0.1	0	Moderate Adverse	Negligible	Negligible
AQ134	721010,729768	1.5	-0.2	-0.1	0	Slight Adverse	Negligible	Negligible
AQ135	721010,729769	3.0	-0.3	-0.1	0	Moderate Adverse	Negligible	Negligible
AQ136	721010,729770	7.2	-0.2	-0.1	0	Substantial Adverse	Negligible	Negligible
AQ137	721010,729771	0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ138	721010,729772	0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ139	721010,729773	2.1	-0.2	-0.1	0	Moderate Adverse	Negligible	Negligible
AQ140	721010,729774	1.7	0.1	<0.1	0	Slight Adverse	Negligible	Negligible
AQ141	721010,729775	-6.1	-0.6	-0.4	0	Substantial Beneficial	Negligible	Negligible
AQ142	721010,729776	-3.7	-0.3	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ143	721010,729777	-0.4	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ144	721010,729778	-3.1	-0.4	-0.3	0	Moderate Beneficial	Negligible	Negligible
AQ145	721010,729779	-0.3	-0.2	-0.1	0	Negligible	Negligible	Negligible

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		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ146	721010,729780	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ147	721010,729781	-0.3	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ148	721010,729782	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ149	721010,729783	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ150	721010,729784	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ151	721010,729785	-0.8	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ152	721010,729786	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ153	721010,729787	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ154	721010,729788	-0.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ155	721010,729789	-1.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ156	721010,729790	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ157	721010,729791	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ158	721010,729792	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ159	721010,729793	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ160	721010,729794	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ161	721010,729795	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ162	721010,729796	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ163	721010,729797	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ164	721010,729798	-1.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ165	721010,729799	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ166	721010,729800	-1.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ167	721010,729801	-1.1	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ168	721010,729802	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ169	721010,729803	-1.7	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ170	721010,729804	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ171	721010,729805	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ172	721010,729806	4.1	0.5	0.3	<1	Slight Adverse	Negligible	Negligible
AQ173	721010,729807	1.5	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ174	721010,729808	1.5	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ175	721010,729809	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ176	721010,729810	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ177	721010,729811	-0.4	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ178	721010,729812	0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ179	721010,729813	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ180	721010,729814	-0.3	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ181	721010,729815	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ182	721010,729816	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ183	721010,729817	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible

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		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ184	721010,729818	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ185	721010,729819	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ186	721010,729820	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ187	721010,729821	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ188	721010,729822	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ189	721010,729823	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ190	721010,729824	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ191	721010,729825	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ192	721010,729826	0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ193	721010,729827	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ194	721010,729828	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ195	721010,729829	-1.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ196	721010,729830	-4.8	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ197	721010,729831	-5.4	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ198	721010,729832	-1.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ199	721010,729833	-0.9	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ200	721010,729834	0.5	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ201	721010,729835	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ202	721010,729836	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ203	721010,729837	0.2	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ204	721010,729838	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ205	721010,729839	2.4	0.3	0.2	<1	Negligible	Negligible	Negligible
AQ206	721010,729840	-0.6	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ207	721010,729841	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ208	721010,729842	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ209	721010,729843	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ210	721010,729844	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ211	721010,729845	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ212	721010,729846	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ213	721010,729847	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ214	721010,729848	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ215	721010,729849	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ216	721010,729850	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ217	721010,729851	0.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ218	721010,729852	1.5	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ219	721010,729853	-0.7	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ220	721010,729854	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ221	721010,729855	-1.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ222	721010,729856	-1.6	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ223	721010,729857	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ224	721010,729858	-1.0	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ225	721010,729859	-1.2	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ226	721010,729860	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ227	721010,729861	-3.6	-0.6	-0.3	0	Moderate Beneficial	Negligible	Negligible
AQ228	721010,729862	-5.4	-1.0	-0.6	-1	Substantial Beneficial	Negligible	Negligible
AQ229	721010,729863	-6.6	-1.2	-0.7	-1	Substantial Beneficial	Negligible	Negligible
AQ230	721010,729864	-0.8	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ231	721010,729865	-9.7	-1.6	-1.0	0	Substantial Beneficial	Negligible	Negligible
AQ232	721010,729866	-7.3	-1.2	-0.7	<1	Moderate Beneficial	Negligible	Negligible
AQ233	721010,729867	-6.8	-1.0	-0.6	<1	Moderate Beneficial	Negligible	Negligible
AQ234	721010,729868	-8.2	-1.6	-1.0	0	Substantial Beneficial	Negligible	Negligible
AQ235	721010,729869	-8.4	-1.5	-0.9	0	Substantial Beneficial	Negligible	Negligible
AQ236	721010,729870	-4.8	-0.9	-0.6	0	Moderate Beneficial	Negligible	Negligible
AQ237	721010,729871	2.6	0.6	0.3	0	Moderate Adverse	Negligible	Negligible
AQ238	721010,729872	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ239	721010,729873	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ240	721010,729874	-0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ241	721010,729875	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ242	721010,729876	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ243	721010,729877	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ244	721010,729878	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ245	721010,729879	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ246	721010,729880	-1.3	-0.3	-0.1	0	Slight Beneficial	Negligible	Negligible
AQ247	721010,729881	2.5	0.2	0.2	<1	Negligible	Negligible	Negligible
AQ248	721010,729882	0.9	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	721010,729883	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	721010,729884	-1.6	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ251	721010,729885	-3.5	-0.6	-0.3	0	Moderate Beneficial	Negligible	Negligible
AQ252	721010,729886	-4.1	-0.7	-0.4	0	Substantial Beneficial	Negligible	Negligible
AQ253	721010,729887	-2.2	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ254	721010,729888	-3.2	-0.6	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ255	721010,729889	-4.2	-0.5	-0.3	0	Moderate Beneficial	Negligible	Negligible
AQ256	721010,729890	-3.0	-0.4	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ257	721010,729891	-4.0	-0.6	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ258	721010,729892	-4.5	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ259	721010,729893	-7.7	-1.4	-0.8	0	Substantial Beneficial	Negligible	Negligible



Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ260	721010,729894	-5.7	-0.9	-0.6	0	Moderate Beneficial	Negligible	Negligible
AQ261	721010,729895	-3.6	-0.5	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ262	721010,729896	-4.4	-0.7	-0.4	0	Moderate Beneficial	Negligible	Negligible
AQ263	721010,729897	-2.3	-0.3	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ264	721010,729898	-2.3	-0.4	-0.2	<1	Slight Beneficial	Negligible	Negligible
AQ265	721010,729899	-3.2	-0.6	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ266	721010,729900	-5.1	-1.3	-0.8	0	Substantial Beneficial	Negligible	Negligible
AQ267	721010,729901	-1.3	-1.0	-0.6	<1	Negligible	Negligible	Negligible
AQ268	721010,729902	-2.2	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ269	721010,729903	-9.3	-1.7	-1.0	0	Substantial Beneficial	Negligible	Negligible
AQ270	721010,729904	-6.4	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ271	721010,729905	-6.4	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ272	721010,729906	-6.3	-1.0	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ273	721010,729907	-5.5	-0.8	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ274	721010,729908	-10.7	-1.4	-0.9	<1	Moderate Beneficial	Negligible	Negligible
AQ275	721010,729909	-7.9	-1.2	-0.7	<1	Slight Beneficial	Negligible	Negligible
AQ276	721010,729910	-4.1	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ277	721010,729911	-5.0	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ278	721010,729912	-9.1	-1.3	-0.8	<1	Slight Beneficial	Negligible	Negligible
AQ279	721010,729913	-6.5	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ280	721010,729914	-10.4	-1.7	-1.0	<1	Moderate Beneficial	Negligible	Negligible
AQ281	721010,729915	-16.7	-2.2	-1.4	<1	Substantial Beneficial	Negligible	Negligible
AQ282	721010,729916	-10.5	-1.4	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ283	721010,729917	-7.4	-1.0	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ284	721010,729918	-10.6	-1.5	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ285	721010,729919	-16.4	-2.5	-1.5	<1	Substantial Beneficial	Negligible	Negligible
AQ286	721010,729920	-5.3	-0.7	-0.4	<1	Slight Beneficial	Negligible	Negligible
AQ287	721010,729921	-17.8	-1.9	-1.2	<1	Substantial Beneficial	Negligible	Negligible
AQ288	721010,729922	-16.4	-1.9	-1.2	<1	Substantial Beneficial	Negligible	Negligible
AQ289	721010,729923	-9.2	-1.3	-0.8	<1	Moderate Beneficial	Negligible	Negligible
AQ290	721010,729924	1.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ291	721010,729925	0.1	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ292	721010,729926	-9.5	-1.6	-1.0	-1	Substantial Beneficial	Negligible	Negligible
AQ293	721010,729927	-7.9	-1.3	-0.8	0	Substantial Beneficial	Negligible	Negligible
AQ294	721010,729928	-7.3	-1.3	-0.8	0	Substantial Beneficial	Negligible	Negligible
AQ295	721010,729929	-6.4	-1.0	-0.6	0	Substantial Beneficial	Negligible	Negligible
AQ296	721010,729930	-6.5	-1.6	-1.0	-1	Substantial Beneficial	Negligible	Negligible
AQ297	721010,729931	-6.5	-1.6	-0.9	0	Substantial Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ298	721010,729932	-6.3	-1.5	-0.9	0	Substantial Beneficial	Negligible	Negligible
AQ299	721010,729933	-6.0	-1.4	-0.9	0	Substantial Beneficial	Negligible	Negligible
AQ300	721010,729934	-6.4	-1.6	-0.9	0	Substantial Beneficial	Negligible	Negligible
AQ301	721010,729935	-6.0	-1.5	-0.9	0	Substantial Beneficial	Negligible	Negligible
AQ302	721010,729936	-4.6	-1.1	-0.7	0	Substantial Beneficial	Negligible	Negligible
AQ303	721010,729937	-5.4	-1.5	-0.9	0	Substantial Beneficial	Negligible	Negligible
AQ304	721010,729938	<0.1	-1.1	-0.6	0	Negligible	Negligible	Negligible
AQ305	721010,729939	0.7	-1.3	-0.8	-1	Slight Adverse	Negligible	Negligible
AQ306	721010,729940	-3.9	-1.7	-1.0	-1	Moderate Beneficial	Negligible	Negligible
AQ307	721010,729941	-1.0	-1.3	-0.7	0	Slight Beneficial	Negligible	Negligible
AQ308	721010,729942	-2.9	-0.4	-0.3	<1	Negligible	Negligible	Negligible
AQ309	721010,729943	-2.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ310	721010,729944	-4.2	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ311	721010,729945	-4.1	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ312	721010,729946	-4.2	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ313	721010,729947	-4.5	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ314	721010,729948	-1.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ315	721010,729949	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ316	721010,729950	-4.4	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ317	721010,729951	-3.9	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ318	721010,729952	-3.3	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ319	721010,729953	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ320	721010,729954	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ321	721010,729955	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ322	721010,729956	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ323	721010,729957	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ324	721010,729958	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ325	721010,729959	-8.1	-0.8	-0.5	0	Substantial Beneficial	Negligible	Negligible
AQ326	721010,729960	-3.0	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ327	721010,729961	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ328	721010,729962	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ329	721010,729963	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ330	721010,729964	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ331	721010,729965	-1.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ332	721010,729966	-0.6	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ333	721010,729967	-5.1	-0.9	-0.5	0	Substantial Beneficial	Negligible	Negligible
AQ334	721010,729968	-0.5	-0.4	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ335	721010,729969	-0.7	-0.3	-0.2	0	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ336	721010,729970	-1.5	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ337	721010,729971	-4.3	-0.7	-0.4	0	Moderate Beneficial	Negligible	Negligible
AQ338	721010,729972	-4.5	-0.8	-0.5	0	Substantial Beneficial	Negligible	Negligible
AQ339	721010,729973	-4.0	-0.6	-0.4	0	Moderate Beneficial	Negligible	Negligible
AQ340	721010,729974	-0.8	0.2	0.1	0	Slight Beneficial	Negligible	Negligible
AQ341	721010,729975	-1.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ342	721010,729976	1.6	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ343	721010,729977	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ344	721010,729978	4.0	0.5	0.3	<1	Negligible	Negligible	Negligible
AQ345	721010,729979	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ346	721010,729980	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ347	721010,729981	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ348	721010,729982	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ349	721010,729983	-0.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ350	721010,729984	0.2	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ351	721010,729985	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ352	721010,729986	-1.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ353	721010,729987	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ354	721010,729988	-1.6	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ355	721010,729989	-1.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ356	721010,729990	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ357	721010,729991	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ358	721010,729992	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ359	721010,729993	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ360	721010,729994	-2.2	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ361	721010,729995	0.5	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ362	721010,729996	-0.2	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ363	721010,729997	-1.1	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ364	721010,729998	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ365	721010,729999	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ366	721010,730000	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ367	721010,730001	0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ368	721010,730002	-2.9	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ369	721010,730003	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ370	721010,730004	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ371	721010,730005	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ372	721010,730006	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ373	721010,730007	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ374	721010,730008	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ375	721010,730009	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ376	721010,730010	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ377	721010,730011	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ378	721010,730012	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ379	721010,730013	0.3	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ380	721010,730014	0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ381	721010,730015	6.1	-0.2	-0.1	0	Substantial Adverse	Negligible	Negligible
AQ382	721010,730016	2.2	-0.2	-0.1	0	Moderate Adverse	Negligible	Negligible
AQ383	721010,730017	4.6	-0.2	-0.1	0	Substantial Adverse	Negligible	Negligible
AQ384	721010,730018	6.4	-0.2	-0.1	0	Substantial Adverse	Negligible	Negligible

The significance of the changes in the concentration of each of the ambient receptors has been determined in the context of the TII significance criteria (TII 2011), as described in Section 7.2.4.1.4 in Chapter 7 (Air Quality) in Volume 2. The majority of modelled receptors are estimated to experience a negligible impact due to the Proposed Scheme in terms of the annual mean  $\text{NO}_2$  concentration. A slightly beneficial impact is estimated at 51 receptors, a moderate beneficial impact at 32 receptors and a substantial beneficial impact at 47 receptors due to the diversion of traffic off the Proposed Scheme routes. A slight adverse impact is expected at nine receptors, a moderate adverse impact at seven receptors and a substantial adverse impact at eight receptors on the R101 North Circular Road, the R108 Phibsborough Road, the R135 Finglas Road, Royal Canal Terrace and Arran Quay. These localised moderate and substantial adverse impacts are considered negative, significant and short-term as  $\text{NO}_2$  concentrations exceed the limit value but will decrease below the limit by 2043 due to reductions in emissions between 2028 and 2043 from advancements in engine technology and the addition of a higher percentage of electric vehicles to the fleet. The Proposed Scheme is overall neutral in terms of annual mean  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$  concentrations, with all receptors experiencing a negligible impact.

### 3. Design Traffic Assessment

#### 3.1 Do Minimum' Scenario

Predicted annual mean concentrations of NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and the number of exceedances of the 24-hour PM<sub>10</sub> objective, at all modelled existing air quality sensitive receptors in the cumulative 2043 DM scenario are listed in Table 3.1. Locations of these receptors are shown in Figure 7.3 to Figure 7.5 in Volume 3 of this EIAR.

**Table 3.1: Predicted Cumulative 2043 Do Minimum Design Scenario Pollutant Statistics At All Modelled Receptor Locations**

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m <sup>3</sup> )			No. of PM <sub>10</sub> days >50 µg/m <sup>3</sup>
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ1	715367,737143	23.4	14.9	10.5	<1
AQ2	715405,737202	22.2	14.6	10.3	<1
AQ3	715087,736553	29.7	16.3	11.3	1
AQ4	715079,736527	29.5	16.3	11.3	1
AQ5	715066,736570	31.0	16.3	11.3	1
AQ6	715013,736516	30.6	16.6	11.4	1
AQ7	715127,736243	21.5	14.4	10.2	<1
AQ8	714992,736243	27.9	15.9	11.0	1
AQ9	715019,736244	33.5	17.4	11.8	1
AQ10	714997,736266	28.4	16.0	11.1	1
AQ11	715036,736390	37.2	16.7	11.5	1
AQ12	715005,736359	30.7	15.8	11.0	1
AQ13	715043,736434	34.3	16.5	11.4	1
AQ14	715039,736413	36.4	16.6	11.4	1
AQ15	715042,736487	33.9	16.9	11.6	1
AQ16	715031,736487	33.9	16.7	11.5	1
AQ17	715063,736482	34.2	17.0	11.7	1
AQ18	715013,736478	30.2	16.0	11.1	1
AQ19	715007,736458	28.3	15.5	10.8	1
AQ20	714991,734794	23.0	14.7	10.4	<1
AQ21	714973,734731	37.5	18.3	12.4	2
AQ22	715015,734796	22.7	14.6	10.3	<1
AQ23	715042,734747	37.3	18.4	12.4	2
AQ24	715021,734710	35.2	17.4	11.8	1
AQ25	714966,734791	23.9	14.9	10.5	<1
AQ26	714967,734805	23.8	14.8	10.4	<1
AQ27	714963,734840	24.2	14.9	10.5	<1
AQ28	714879,734648	40.0	18.2	12.3	2
AQ29	714933,734823	31.2	16.2	11.2	1
AQ30	714962,734854	23.8	14.8	10.4	<1
AQ31	714922,734731	33.1	16.8	11.6	1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days >50 $\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ32	714879,734757	34.1	16.6	11.4	1
AQ33	714886,734787	34.6	16.7	11.5	1
AQ34	714868,734720	47.5	19.5	13.1	3
AQ35	714934,734702	31.8	16.6	11.4	1
AQ36	714861,734526	33.7	16.8	11.5	1
AQ37	715081,734346	25.2	15.1	10.6	<1
AQ38	715098,734328	21.6	14.4	10.2	<1
AQ39	714878,734543	40.3	18.1	12.3	2
AQ40	714855,734461	29.2	15.8	11.0	1
AQ41	714882,734463	32.4	16.4	11.3	1
AQ42	715090,734382	22.1	14.5	10.3	<1
AQ43	714878,734485	41.4	18.2	12.3	2
AQ44	714879,734603	38.8	17.8	12.1	1
AQ45	714879,734636	39.5	18.0	12.2	2
AQ46	715040,734582	22.5	14.5	10.3	<1
AQ47	715054,734524	22.3	14.5	10.3	<1
AQ48	715014,734688	27.5	15.6	10.9	1
AQ49	714852,734429	31.0	16.2	11.2	1
AQ50	714829,734297	33.1	16.7	11.5	1
AQ51	714813,734240	43.6	18.1	12.3	2
AQ52	714862,734650	31.8	16.4	11.3	1
AQ53	714930,735661	29.1	16.4	11.3	1
AQ54	715025,735693	21.0	14.3	10.2	<1
AQ55	714934,735443	27.0	16.3	11.3	1
AQ56	714921,735579	26.6	16.1	11.1	1
AQ57	714941,735567	27.6	16.5	11.3	1
AQ58	714924,735634	26.3	15.9	11.0	1
AQ59	714995,735557	20.8	14.3	10.2	1
AQ60	714940,735556	27.8	16.6	11.4	1
AQ61	715006,735602	20.8	14.3	10.1	1
AQ62	714948,735651	27.9	16.4	11.3	1
AQ63	714947,735623	27.0	16.2	11.2	1
AQ64	714951,735075	26.6	15.3	10.7	<1
AQ65	715013,735172	21.8	14.4	10.2	<1
AQ66	714947,735276	25.8	15.8	11.0	1
AQ67	714919,735282	24.9	15.5	10.8	1
AQ68	715021,735319	20.9	14.3	10.2	<1
AQ69	714983,735335	21.0	14.4	10.2	<1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ70	714939,735355	27.6	16.5	11.4	1
AQ71	714909,735428	25.3	15.7	10.9	1
AQ72	714988,735422	20.8	14.3	10.2	<1
AQ73	715021,735364	20.8	14.3	10.1	1
AQ74	714941,735350	27.1	16.3	11.2	1
AQ75	714984,735349	21.0	14.3	10.2	<1
AQ76	714909,735447	25.6	15.8	11.0	1
AQ77	715293,737083	21.7	14.5	10.3	<1
AQ78	715177,737114	20.8	14.3	10.1	1
AQ79	715163,737145	20.7	14.3	10.1	1
AQ80	715144,737111	20.5	14.2	10.1	1
AQ81	715290,737211	21.0	14.3	10.2	<1
AQ82	715347,737160	22.3	14.6	10.3	<1
AQ83	714970,736162	29.2	16.1	11.2	1
AQ84	714955,736106	31.6	16.3	11.2	1
AQ85	714989,736233	29.7	16.3	11.3	1
AQ86	714973,736173	27.2	15.7	10.9	1
AQ87	715004,736160	29.1	16.1	11.2	1
AQ88	715112,736223	21.6	14.4	10.2	<1
AQ89	715137,736797	21.9	14.5	10.3	<1
AQ90	715162,736781	22.4	14.7	10.4	<1
AQ91	715141,736805	22.0	14.6	10.3	<1
AQ92	715168,736799	22.4	14.7	10.4	<1
AQ93	715173,736886	22.2	14.6	10.3	<1
AQ94	715231,736947	22.8	14.8	10.4	<1
AQ95	715198,736881	22.7	14.7	10.4	<1
AQ96	715201,736958	21.7	14.5	10.3	<1
AQ97	715253,737014	21.8	14.5	10.3	<1
AQ98	715233,736996	21.8	14.5	10.3	<1
AQ99	715217,737019	21.6	14.4	10.2	<1
AQ100	715208,736990	21.3	14.4	10.2	<1
AQ101	715331,737143	21.8	14.5	10.3	<1
AQ102	715194,737012	20.9	14.3	10.2	1
AQ103	715254,736967	22.0	14.6	10.3	<1
AQ104	714985,736585	33.9	17.6	12.0	1
AQ105	714971,736562	26.6	15.6	10.9	1
AQ106	715104,736604	30.3	15.8	11.0	1
AQ107	715073,736602	29.3	15.8	11.0	1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ108	715094,736577	30.9	16.0	11.1	1
AQ109	715079,736628	36.5	17.6	12.0	1
AQ110	715037,736623	31.1	16.7	11.5	1
AQ111	714922,736655	26.9	15.6	10.9	1
AQ112	714935,736628	26.2	15.6	10.9	1
AQ113	714908,736683	26.5	15.7	10.9	1
AQ114	714932,736700	29.9	16.6	11.4	1
AQ115	714942,736675	34.0	17.2	11.8	1
AQ116	714871,736757	22.2	14.6	10.3	<1
AQ117	714755,736779	21.8	14.5	10.3	<1
AQ118	714867,736710	21.6	14.5	10.3	<1
AQ119	715101,736694	22.6	14.7	10.4	<1
AQ120	715086,735971	25.3	14.8	10.5	<1
AQ121	715093,736100	22.0	14.4	10.2	<1
AQ122	714979,736090	33.6	16.3	11.3	1
AQ123	714979,735962	32.5	16.9	11.6	1
AQ124	715071,736007	22.9	14.6	10.3	<1
AQ125	715067,736024	22.3	14.5	10.3	<1
AQ126	714973,736042	37.7	18.2	12.3	2
AQ127	714961,735948	31.3	16.6	11.4	1
AQ128	714987,736629	29.6	16.6	11.4	1
AQ129	715001,736510	27.5	15.7	11.0	1
AQ130	714982,735770	31.4	17.0	11.6	1
AQ131	715040,735787	21.4	14.4	10.2	<1
AQ132	714977,735755	28.6	16.2	11.2	1
AQ133	714965,735877	30.9	16.5	11.4	1
AQ134	714984,735852	30.4	16.5	11.4	1
AQ135	714996,735909	38.6	18.1	12.3	2
AQ136	714949,735909	37.3	17.8	12.1	1
AQ137	715060,735903	26.1	15.3	10.7	<1
AQ138	715056,735882	24.0	14.9	10.5	<1
AQ139	714996,735890	34.4	17.2	11.8	1
AQ140	715091,735902	31.7	16.0	11.1	1
AQ141	714933,735676	32.3	16.7	11.5	1
AQ142	714955,735674	30.8	16.4	11.3	1
AQ143	714966,735785	27.6	15.9	11.0	1
AQ144	714953,735742	31.0	16.6	11.4	1
AQ145	714983,735786	29.0	16.3	11.2	1



DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ146	714935,734960	27.6	15.5	10.8	1
AQ147	714956,734916	39.4	18.0	12.2	2
AQ148	714922,734916	26.9	15.4	10.8	<1
AQ149	714472,736949	21.2	14.4	10.2	<1
AQ150	714313,737120	21.4	14.4	10.2	<1
AQ151	715434,738674	22.8	14.9	10.5	<1
AQ152	715372,738863	21.4	14.4	10.2	<1
AQ153	715383,738759	21.4	14.5	10.3	<1
AQ154	715384,738655	21.4	14.5	10.3	<1
AQ155	715476,737643	22.5	14.7	10.4	<1
AQ156	715481,737594	21.5	14.5	10.3	<1
AQ157	715481,737594	21.5	14.5	10.3	<1
AQ158	715433,737920	23.5	14.9	10.5	<1
AQ159	715447,737859	22.4	14.6	10.3	<1
AQ160	715444,737620	21.4	14.4	10.2	<1
AQ161	715438,737675	21.2	14.4	10.2	<1
AQ162	715451,737821	22.3	14.6	10.3	<1
AQ163	715464,737747	22.3	14.6	10.3	<1
AQ164	715467,737724	22.3	14.6	10.3	<1
AQ165	715404,738140	22.4	14.7	10.4	<1
AQ166	715404,738108	22.5	14.7	10.4	<1
AQ167	715360,738284	22.2	14.7	10.4	<1
AQ168	715372,738462	21.9	14.6	10.3	<1
AQ169	715357,738177	22.3	14.7	10.4	<1
AQ170	715194,737262	20.5	14.2	10.1	1
AQ171	715236,737223	20.7	14.3	10.1	1
AQ172	715175,737516	21.3	14.4	10.2	<1
AQ173	715178,737488	20.6	14.2	10.1	1
AQ174	715190,737457	20.8	14.3	10.2	1
AQ175	715277,737200	20.8	14.3	10.1	1
AQ176	715218,737212	20.8	14.3	10.1	1
AQ177	715202,737773	20.6	14.2	10.1	1
AQ178	715342,737941	23.1	14.8	10.4	<1
AQ179	715315,737902	21.9	14.5	10.3	<1
AQ180	715275,737837	20.8	14.2	10.1	1
AQ181	715269,737897	21.0	14.3	10.2	<1
AQ182	715382,737333	21.2	14.4	10.2	<1
AQ183	715451,737821	22.3	14.6	10.3	<1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days >50 $\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ184	715428,737722	21.2	14.3	10.2	<1
AQ185	715426,737732	21.2	14.3	10.2	<1
AQ186	715415,737814	21.4	14.4	10.2	<1
AQ187	715364,737295	20.9	14.3	10.2	<1
AQ188	715363,738002	22.6	14.7	10.4	<1
AQ189	715429,737551	21.3	14.4	10.2	<1
AQ190	715405,737461	21.1	14.4	10.2	<1
AQ191	715401,737878	22.0	14.5	10.3	<1
AQ192	715387,737927	23.2	14.8	10.4	<1
AQ193	715382,737998	22.3	14.6	10.3	<1
AQ194	715391,737396	21.1	14.4	10.2	<1
AQ195	715416,738010	22.6	14.7	10.4	<1
AQ196	715410,740446	23.2	14.8	10.4	<1
AQ197	715385,740597	23.0	14.8	10.4	<1
AQ198	715403,740362	22.0	14.6	10.3	<1
AQ199	715130,737642	21.0	14.3	10.2	<1
AQ200	715231,737459	20.6	14.2	10.1	1
AQ201	715226,737338	20.7	14.2	10.1	1
AQ202	715221,737400	20.9	14.3	10.2	1
AQ203	715191,737420	20.5	14.2	10.1	1
AQ204	715182,737371	20.4	14.2	10.1	1
AQ205	715114,737548	20.8	14.3	10.2	1
AQ206	715153,737684	20.7	14.2	10.1	1
AQ207	715502,739359	22.5	14.8	10.4	<1
AQ208	715408,739100	24.0	14.9	10.5	<1
AQ209	715493,739262	22.7	14.8	10.4	<1
AQ210	715368,738953	21.8	14.5	10.3	<1
AQ211	715434,739035	23.3	14.9	10.5	<1
AQ212	715452,739042	22.7	14.7	10.4	<1
AQ213	715416,738981	23.0	14.9	10.5	<1
AQ214	713910,737756	21.5	14.4	10.2	<1
AQ215	713962,737748	24.0	15.0	10.6	<1
AQ216	713991,737518	21.3	14.4	10.2	<1
AQ217	713176,738821	25.0	15.1	10.6	<1
AQ218	713196,738843	24.6	15.0	10.6	<1
AQ219	713839,738020	21.2	14.4	10.2	<1
AQ220	713797,738159	21.7	14.5	10.3	<1
AQ221	713742,738142	21.0	14.3	10.2	<1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days >50 $\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ222	713329,738634	22.0	14.6	10.3	<1
AQ223	713049,738954	21.4	14.4	10.2	<1
AQ224	715314,737046	21.5	14.4	10.2	<1
AQ225	715359,737115	22.0	14.5	10.3	<1
AQ226	715433,739637	22.1	14.5	10.3	<1
AQ227	714782,734168	36.4	17.4	11.9	1
AQ228	714806,734148	40.1	18.2	12.3	2
AQ229	714790,734058	42.4	18.5	12.5	2
AQ230	714768,734036	39.7	17.5	11.9	1
AQ231	714815,733986	34.5	17.3	11.8	1
AQ232	714898,733940	30.2	16.2	11.2	1
AQ233	714868,733938	30.4	16.1	11.1	1
AQ234	715040,733934	34.3	17.2	11.7	1
AQ235	714960,733960	32.7	16.8	11.5	1
AQ236	715087,733873	29.9	16.2	11.2	1
AQ237	714703,734262	35.5	18.9	12.6	2
AQ238	714716,734342	22.3	14.5	10.3	<1
AQ239	714723,734337	22.3	14.5	10.3	<1
AQ240	714735,734416	22.6	14.6	10.3	<1
AQ241	714738,734493	21.6	14.4	10.2	<1
AQ242	714793,734626	23.3	14.7	10.4	<1
AQ243	714777,734605	22.6	14.5	10.3	<1
AQ244	714796,734634	23.9	14.8	10.4	<1
AQ245	714770,734550	22.2	14.5	10.3	<1
AQ246	714947,734693	30.1	16.2	11.2	1
AQ247	714953,734491	23.2	14.6	10.3	<1
AQ248	714951,734470	22.4	14.5	10.3	<1
AQ249	714958,734578	22.4	14.5	10.3	<1
AQ250	715173,734810	32.8	16.9	11.6	1
AQ251	715149,734779	30.8	16.6	11.4	1
AQ252	715114,734778	31.8	16.9	11.6	1
AQ253	714712,734756	25.9	15.4	10.7	<1
AQ254	714707,734771	28.3	15.9	11.1	1
AQ255	714517,734365	31.3	16.0	11.1	1
AQ256	714507,734382	28.3	15.7	10.9	1
AQ257	714516,734462	26.3	15.4	10.8	<1
AQ258	714522,734505	27.3	15.7	10.9	1
AQ259	714538,734639	33.5	17.2	11.7	1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ260	714540,734541	30.1	16.3	11.3	1
AQ261	714663,734669	28.7	16.1	11.1	1
AQ262	714575,734672	30.0	16.3	11.3	1
AQ263	714676,734657	26.2	15.5	10.8	1
AQ264	714671,734746	25.8	15.3	10.7	<1
AQ265	714662,734762	27.9	15.8	11.0	1
AQ266	714404,734696	31.7	16.6	11.4	1
AQ267	714410,734682	28.1	16.0	11.1	1
AQ268	714392,734685	27.0	15.7	10.9	1
AQ269	714399,734732	34.5	16.9	11.6	1
AQ270	714339,734787	26.2	15.4	10.7	<1
AQ271	714344,734781	26.2	15.4	10.7	<1
AQ272	714379,734734	28.4	15.7	10.9	1
AQ273	714292,734856	24.8	15.2	10.6	<1
AQ274	714346,734806	29.9	16.2	11.2	1
AQ275	714259,734954	27.1	15.8	11.0	1
AQ276	714232,734942	24.8	15.2	10.7	<1
AQ277	714238,734930	25.7	15.4	10.8	<1
AQ278	714216,735009	26.5	15.6	10.9	1
AQ279	714191,734990	24.9	15.2	10.7	<1
AQ280	714254,734966	29.2	16.3	11.3	1
AQ281	714176,735042	31.5	16.6	11.4	1
AQ282	714134,735080	27.3	15.7	10.9	1
AQ283	714121,735080	25.1	15.3	10.7	<1
AQ284	714021,735211	27.3	15.9	11.0	1
AQ285	714028,735223	32.2	17.1	11.7	1
AQ286	714012,735224	24.2	15.1	10.6	<1
AQ287	713935,735463	34.9	16.7	11.5	1
AQ288	713913,735489	36.2	16.9	11.6	1
AQ289	713973,735329	28.3	16.1	11.1	1
AQ290	714818,735878	23.4	14.7	10.4	<1
AQ291	714676,735906	23.0	14.9	10.5	<1
AQ292	715709,735720	37.1	17.7	12.0	1
AQ293	715700,735702	33.0	16.9	11.6	1
AQ294	715682,735736	31.6	16.9	11.6	1
AQ295	715667,735718	29.9	16.4	11.3	1
AQ296	715727,735815	36.4	17.9	12.1	2
AQ297	715744,735788	32.8	17.3	11.8	1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days >50 $\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ298	715756,735810	32.5	17.2	11.7	1
AQ299	715718,735803	33.7	17.3	11.8	1
AQ300	715799,735893	32.1	17.3	11.8	1
AQ301	715769,735905	31.8	17.1	11.7	1
AQ302	715775,735917	29.9	16.5	11.4	1
AQ303	715814,735918	32.7	17.2	11.8	1
AQ304	715818,735992	31.4	16.9	11.6	1
AQ305	715846,735982	33.2	17.4	11.9	1
AQ306	715843,736047	35.9	18.4	12.4	2
AQ307	715872,736028	32.2	17.3	11.8	1
AQ308	715719,736094	23.6	14.9	10.5	<1
AQ309	715702,736101	22.8	14.7	10.4	<1
AQ310	715776,736219	23.2	14.7	10.4	<1
AQ311	715759,736226	23.1	14.6	10.4	<1
AQ312	715784,736236	23.2	14.7	10.4	<1
AQ313	715771,736252	23.4	14.7	10.4	<1
AQ314	715822,736361	21.4	14.4	10.2	<1
AQ315	715840,736353	21.4	14.4	10.2	<1
AQ316	715616,736364	23.2	14.7	10.4	<1
AQ317	715623,736322	22.9	14.6	10.3	<1
AQ318	715613,736350	22.5	14.6	10.3	<1
AQ319	715635,736434	21.1	14.3	10.2	1
AQ320	715370,736516	21.6	14.4	10.2	<1
AQ321	715389,736493	21.2	14.3	10.2	1
AQ322	715369,736493	21.2	14.3	10.2	<1
AQ323	715391,736518	21.4	14.3	10.2	<1
AQ324	715471,736389	21.5	14.4	10.2	<1
AQ325	715056,736459	33.9	16.7	11.5	1
AQ326	715249,736428	22.5	14.5	10.3	<1
AQ327	715248,736406	21.8	14.4	10.2	<1
AQ328	715200,736539	22.0	14.5	10.3	<1
AQ329	715192,736521	21.5	14.4	10.2	<1
AQ330	714753,736291	21.4	14.3	10.2	<1
AQ331	714757,736304	21.3	14.3	10.2	<1
AQ332	714737,736303	20.9	14.2	10.1	1
AQ333	714887,734697	36.2	17.2	11.8	1
AQ334	714918,734776	32.7	16.4	11.3	1
AQ335	714920,734871	30.0	16.1	11.1	1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ336	715161,734821	31.7	16.7	11.5	1
AQ337	715050,734723	31.2	16.7	11.5	1
AQ338	715051,734749	32.4	17.1	11.7	1
AQ339	715094,734741	31.4	16.7	11.5	1
AQ340	715098,736591	30.6	15.7	10.9	1
AQ341	713864,738074	21.9	14.6	10.3	<1
AQ342	712749,739812	24.6	15.2	10.6	<1
AQ343	712613,739799	21.3	14.4	10.2	<1
AQ344	712753,739720	22.5	14.8	10.4	<1
AQ345	715026,734392	21.5	14.4	10.2	<1
AQ346	714997,734396	21.9	14.4	10.2	<1
AQ347	714828,734792	22.9	14.6	10.3	<1
AQ348	715093,734269	21.9	14.5	10.3	<1
AQ349	714999,736553	25.7	15.5	10.8	<1
AQ350	712507,739809	20.2	14.1	10.1	1
AQ351	714745,734486	21.8	14.4	10.2	<1
AQ352	715510,740236	24.0	15.1	10.6	<1
AQ353	715191,735865	25.1	15.2	10.6	<1
AQ354	714829,734740	27.5	15.6	10.9	1
AQ355	714829,734774	23.8	14.7	10.4	<1
AQ356	715571,737454	21.3	14.4	10.2	<1
AQ357	715238,737251	21.0	14.3	10.2	<1
AQ358	715309,737551	20.3	14.1	10.1	1
AQ359	715213,737647	20.3	14.1	10.1	1
AQ360	715472,737544	23.9	15.1	10.6	<1
AQ361	713269,739047	22.6	14.7	10.4	<1
AQ362	715655,738657	20.3	14.1	10.1	1
AQ363	714840,736724	21.5	14.4	10.2	<1
AQ364	715306,737965	22.2	14.6	10.3	<1
AQ365	715330,738134	21.0	14.3	10.2	<1
AQ366	715193,737898	20.5	14.2	10.1	1
AQ367	715005,737589	20.3	14.1	10.1	1
AQ368	713655,738228	21.6	14.4	10.2	<1
AQ369	713028,738778	21.3	14.4	10.2	<1
AQ370	715358,738994	21.2	14.3	10.2	<1
AQ371	715430,739469	21.0	14.4	10.2	<1
AQ372	715520,739462	21.3	14.4	10.2	<1
AQ373	714738,734460	21.9	14.4	10.2	<1

DM (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ374	714853,734440	23.1	14.6	10.4	<1
AQ375	715695,736814	22.0	14.5	10.3	<1
AQ376	715503,737018	21.5	14.4	10.2	<1
AQ377	715494,737000	20.8	14.2	10.1	1
AQ378	715828,736777	21.5	14.4	10.2	<1
AQ379	715831,736757	21.0	14.3	10.1	1
AQ380	715818,736759	20.9	14.3	10.1	1
AQ381	714961,735923	34.3	17.2	11.8	1
AQ382	714983,735876	32.5	16.9	11.6	1
AQ383	714948,735892	32.8	16.8	11.5	1
AQ384	714980,735923	36.9	17.9	12.1	2
<b>Air Quality Limit Value Objective</b>		<b>40</b>	<b>40</b>	<b>25</b>	<b>35</b>

In the cumulative 2043 DM scenario annual mean concentrations of NO<sub>2</sub> are above the relevant national air quality limit value objective in some areas; six exceedances were modelled at receptors on R132 Church Street and R108 High Street. Annual mean NO<sub>2</sub> concentrations did not exceed 60 $\mu\text{g}/\text{m}^3$ , indicating that exceedances of the NO<sub>2</sub> 1-hour mean is unlikely to occur. Annual mean PM<sub>10</sub> concentrations are below the relevant national air quality limit value objectives for all modelled receptors. At all receptors, modelling of the maximum 24-hour PM<sub>10</sub> concentration indicated that there is likely to be no more than three exceedance of the 50 $\mu\text{g}/\text{m}^3$  ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean PM<sub>2.5</sub> concentrations are also below the relevant national air quality limit value limit value objectives for all modelled receptors.

### 3.2 'Do Something' Scenario

Predicted annual mean concentrations of NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and the number of exceedances of the 24-hour PM<sub>10</sub> objective, at all modelled existing air quality sensitive receptors in the cumulative 2043 DS scenario are listed in Table 3.2. Locations of these receptors are shown in Figure 7.3 to Figure 7.5 in Volume 3 of this EIAR.

**Table 3.2: Predicted Cumulative 2043 Do Something Design Scenario Pollutant Statistics At All Modelled Receptor Locations**

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. (µg/m <sup>3</sup> )			No. of PM <sub>10</sub> days >50 µg/m <sup>3</sup>
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ1	715367,737143	22.3	14.6	10.3	<1
AQ2	715405,737202	21.4	14.4	10.2	<1
AQ3	715087,736553	28.1	15.7	10.9	1
AQ4	715079,736527	27.7	15.7	10.9	1
AQ5	715066,736570	30.1	16.0	11.1	1
AQ6	715013,736516	29.6	15.9	11.0	1
AQ7	715127,736243	21.6	14.3	10.2	<1
AQ8	714992,736243	26.3	15.4	10.8	<1
AQ9	715019,736244	31.5	16.9	11.6	1
AQ10	714997,736266	26.9	15.6	10.9	1
AQ11	715036,736390	31.7	16.3	11.3	1
AQ12	715005,736359	27.6	15.5	10.8	1
AQ13	715043,736434	29.4	16.0	11.1	1
AQ14	715039,736413	31.0	16.2	11.2	1
AQ15	715042,736487	29.8	16.1	11.1	1
AQ16	715031,736487	30.0	16.0	11.1	1
AQ17	715063,736482	28.7	15.9	11.1	1
AQ18	715013,736478	27.4	15.5	10.8	1
AQ19	715007,736458	25.6	15.2	10.6	<1
AQ20	714991,734794	21.7	14.4	10.2	<1
AQ21	714973,734731	30.6	16.5	11.4	1
AQ22	715015,734796	21.6	14.4	10.2	<1
AQ23	715042,734747	31.9	17.1	11.7	1
AQ24	715021,734710	27.6	15.8	11.0	1
AQ25	714966,734791	22.1	14.4	10.2	<1
AQ26	714967,734805	22.0	14.4	10.2	<1
AQ27	714963,734840	22.2	14.4	10.2	<1
AQ28	714879,734648	32.1	16.5	11.4	1
AQ29	714933,734823	30.0	15.6	10.9	1
AQ30	714962,734854	22.4	14.4	10.2	<1
AQ31	714922,734731	30.2	15.9	11.0	1
AQ32	714879,734757	33.9	15.9	11.1	1



DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ33	714886,734787	32.5	15.9	11.0	1
AQ34	714868,734720	45.0	18.0	12.2	2
AQ35	714934,734702	29.0	15.9	11.0	1
AQ36	714861,734526	28.4	15.8	11.0	1
AQ37	715081,734346	24.4	14.9	10.5	<1
AQ38	715098,734328	21.3	14.3	10.2	<1
AQ39	714878,734543	32.0	16.5	11.4	1
AQ40	714855,734461	27.3	15.4	10.8	<1
AQ41	714882,734463	30.4	15.9	11.0	1
AQ42	715090,734382	21.4	14.3	10.2	<1
AQ43	714878,734485	36.2	17.1	11.7	1
AQ44	714879,734603	31.0	16.3	11.3	1
AQ45	714879,734636	31.4	16.4	11.3	1
AQ46	715040,734582	22.0	14.4	10.2	<1
AQ47	715054,734524	22.2	14.4	10.2	<1
AQ48	715014,734688	24.6	15.0	10.6	<1
AQ49	714852,734429	28.8	15.7	10.9	1
AQ50	714829,734297	30.0	16.1	11.2	1
AQ51	714813,734240	38.4	17.6	12.0	1
AQ52	714862,734650	27.3	15.5	10.8	1
AQ53	714930,735661	25.8	15.7	10.9	1
AQ54	715025,735693	20.6	14.2	10.1	1
AQ55	714934,735443	25.7	15.8	11.0	1
AQ56	714921,735579	25.1	15.7	10.9	1
AQ57	714941,735567	26.1	16.0	11.1	1
AQ58	714924,735634	24.8	15.5	10.8	1
AQ59	714995,735557	20.5	14.2	10.1	1
AQ60	714940,735556	26.3	16.0	11.1	1
AQ61	715006,735602	20.5	14.2	10.1	1
AQ62	714948,735651	26.1	15.9	11.0	1
AQ63	714947,735623	25.4	15.7	10.9	1
AQ64	714951,735075	24.4	14.9	10.5	<1
AQ65	715013,735172	21.1	14.3	10.2	<1
AQ66	714947,735276	24.6	15.4	10.8	<1
AQ67	714919,735282	23.8	15.2	10.6	<1
AQ68	715021,735319	20.7	14.3	10.1	1
AQ69	714983,735335	20.7	14.3	10.1	1
AQ70	714939,735355	26.6	16.1	11.2	1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ71	714909,735428	24.1	15.3	10.7	<1
AQ72	714988,735422	20.6	14.2	10.1	1
AQ73	715021,735364	20.5	14.2	10.1	1
AQ74	714941,735350	26.1	16.0	11.1	1
AQ75	714984,735349	20.7	14.3	10.1	1
AQ76	714909,735447	24.4	15.4	10.8	<1
AQ77	715293,737083	21.0	14.3	10.2	<1
AQ78	715177,737114	20.7	14.3	10.1	1
AQ79	715163,737145	20.7	14.2	10.1	1
AQ80	715144,737111	20.4	14.2	10.1	1
AQ81	715290,737211	21.0	14.3	10.2	<1
AQ82	715347,737160	21.6	14.5	10.3	<1
AQ83	714970,736162	29.8	15.9	11.0	1
AQ84	714955,736106	33.4	16.0	11.1	1
AQ85	714989,736233	28.0	15.8	11.0	1
AQ86	714973,736173	27.5	15.5	10.8	1
AQ87	715004,736160	29.6	15.8	11.0	1
AQ88	715112,736223	21.7	14.4	10.2	<1
AQ89	715137,736797	21.3	14.4	10.2	<1
AQ90	715162,736781	21.8	14.5	10.3	<1
AQ91	715141,736805	21.4	14.4	10.2	<1
AQ92	715168,736799	21.6	14.5	10.3	<1
AQ93	715173,736886	21.6	14.5	10.2	<1
AQ94	715231,736947	21.8	14.5	10.3	<1
AQ95	715198,736881	21.9	14.5	10.3	<1
AQ96	715201,736958	21.3	14.4	10.2	<1
AQ97	715253,737014	21.2	14.4	10.2	<1
AQ98	715233,736996	21.3	14.4	10.2	<1
AQ99	715217,737019	21.3	14.4	10.2	<1
AQ100	715208,736990	21.0	14.3	10.2	<1
AQ101	715331,737143	21.2	14.4	10.2	<1
AQ102	715194,737012	20.7	14.2	10.1	1
AQ103	715254,736967	21.5	14.4	10.2	<1
AQ104	714985,736585	33.8	16.7	11.5	1
AQ105	714971,736562	26.3	15.3	10.7	<1
AQ106	715104,736604	28.1	15.5	10.8	1
AQ107	715073,736602	27.7	15.5	10.8	<1
AQ108	715094,736577	29.7	15.9	11.0	1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ109	715079,736628	31.6	16.6	11.4	1
AQ110	715037,736623	28.0	15.9	11.0	1
AQ111	714922,736655	24.9	15.1	10.6	<1
AQ112	714935,736628	25.3	15.2	10.6	<1
AQ113	714908,736683	24.2	15.2	10.7	<1
AQ114	714932,736700	26.3	15.8	11.0	1
AQ115	714942,736675	29.3	16.2	11.2	1
AQ116	714871,736757	21.2	14.4	10.2	<1
AQ117	714755,736779	21.0	14.4	10.2	<1
AQ118	714867,736710	21.0	14.3	10.2	<1
AQ119	715101,736694	21.9	14.5	10.3	<1
AQ120	715086,735971	22.6	14.5	10.3	<1
AQ121	715093,736100	21.8	14.4	10.2	<1
AQ122	714979,736090	30.9	15.8	11.0	1
AQ123	714979,735962	32.6	16.2	11.2	1
AQ124	715071,736007	21.8	14.4	10.2	<1
AQ125	715067,736024	21.6	14.3	10.2	<1
AQ126	714973,736042	38.4	17.2	11.8	1
AQ127	714961,735948	31.3	15.9	11.1	1
AQ128	714987,736629	27.6	15.8	11.0	1
AQ129	715001,736510	26.7	15.3	10.7	<1
AQ130	714982,735770	28.2	16.3	11.2	1
AQ131	715040,735787	20.9	14.3	10.2	1
AQ132	714977,735755	25.8	15.6	10.9	1
AQ133	714965,735877	29.7	15.9	11.1	1
AQ134	714984,735852	28.7	15.9	11.1	1
AQ135	714996,735909	36.8	17.2	11.8	1
AQ136	714949,735909	38.1	16.9	11.6	1
AQ137	715060,735903	25.0	15.0	10.5	<1
AQ138	715056,735882	23.2	14.7	10.4	<1
AQ139	714996,735890	32.7	16.5	11.4	1
AQ140	715091,735902	27.5	15.4	10.8	<1
AQ141	714933,735676	25.9	15.7	10.9	1
AQ142	714955,735674	26.5	15.8	11.0	1
AQ143	714966,735785	25.4	15.4	10.7	<1
AQ144	714953,735742	25.8	15.6	10.9	1
AQ145	714983,735786	26.7	15.7	10.9	1
AQ146	714935,734960	25.4	15.1	10.6	<1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ147	714956,734916	35.7	17.1	11.7	1
AQ148	714922,734916	25.3	15.0	10.6	<1
AQ149	714472,736949	20.7	14.3	10.1	1
AQ150	714313,737120	20.9	14.3	10.2	<1
AQ151	715434,738674	22.2	14.6	10.3	<1
AQ152	715372,738863	20.8	14.3	10.2	<1
AQ153	715383,738759	20.9	14.3	10.2	<1
AQ154	715384,738655	21.0	14.3	10.2	1
AQ155	715476,737643	21.6	14.5	10.3	<1
AQ156	715481,737594	21.0	14.3	10.2	<1
AQ157	715481,737594	21.0	14.3	10.2	<1
AQ158	715433,737920	22.7	14.6	10.3	<1
AQ159	715447,737859	21.7	14.5	10.3	<1
AQ160	715444,737620	20.9	14.3	10.2	<1
AQ161	715438,737675	20.8	14.3	10.2	1
AQ162	715451,737821	21.6	14.4	10.2	<1
AQ163	715464,737747	21.5	14.4	10.2	<1
AQ164	715467,737724	21.4	14.4	10.2	<1
AQ165	715404,738140	21.3	14.4	10.2	<1
AQ166	715404,738108	21.4	14.4	10.2	<1
AQ167	715360,738284	21.3	14.4	10.2	<1
AQ168	715372,738462	21.0	14.4	10.2	<1
AQ169	715357,738177	21.2	14.4	10.2	<1
AQ170	715194,737262	20.5	14.2	10.1	1
AQ171	715236,737223	20.7	14.2	10.1	1
AQ172	715175,737516	23.0	14.8	10.4	<1
AQ173	715178,737488	21.2	14.4	10.2	<1
AQ174	715190,737457	21.4	14.4	10.2	<1
AQ175	715277,737200	20.7	14.2	10.1	1
AQ176	715218,737212	20.7	14.3	10.1	1
AQ177	715202,737773	20.3	14.1	10.1	1
AQ178	715342,737941	22.8	14.6	10.3	<1
AQ179	715315,737902	21.6	14.4	10.2	<1
AQ180	715275,737837	20.4	14.2	10.1	1
AQ181	715269,737897	20.7	14.2	10.1	1
AQ182	715382,737333	20.8	14.3	10.2	1
AQ183	715451,737821	21.6	14.4	10.2	<1
AQ184	715428,737722	20.8	14.3	10.1	1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ185	715426,737732	20.8	14.3	10.1	1
AQ186	715415,737814	20.9	14.3	10.2	<1
AQ187	715364,737295	20.6	14.2	10.1	1
AQ188	715363,738002	21.6	14.4	10.2	<1
AQ189	715429,737551	20.8	14.3	10.2	<1
AQ190	715405,737461	20.7	14.3	10.1	1
AQ191	715401,737878	21.6	14.4	10.2	<1
AQ192	715387,737927	23.2	14.6	10.3	<1
AQ193	715382,737998	21.5	14.4	10.2	<1
AQ194	715391,737396	20.7	14.3	10.2	1
AQ195	715416,738010	21.6	14.4	10.2	<1
AQ196	715410,740446	20.5	14.2	10.1	1
AQ197	715385,740597	20.1	14.1	10.0	1
AQ198	715403,740362	21.0	14.4	10.2	<1
AQ199	715130,737642	20.5	14.2	10.1	1
AQ200	715231,737459	20.8	14.3	10.1	1
AQ201	715226,737338	20.7	14.2	10.1	1
AQ202	715221,737400	20.9	14.3	10.2	<1
AQ203	715191,737420	20.6	14.2	10.1	1
AQ204	715182,737371	20.4	14.2	10.1	1
AQ205	715114,737548	21.8	14.5	10.3	<1
AQ206	715153,737684	20.3	14.1	10.1	1
AQ207	715502,739359	21.6	14.5	10.3	<1
AQ208	715408,739100	23.1	14.7	10.4	<1
AQ209	715493,739262	21.7	14.6	10.3	<1
AQ210	715368,738953	21.0	14.4	10.2	<1
AQ211	715434,739035	22.6	14.7	10.4	<1
AQ212	715452,739042	22.3	14.6	10.3	<1
AQ213	715416,738981	22.5	14.8	10.4	<1
AQ214	713910,737756	21.1	14.3	10.2	<1
AQ215	713962,737748	22.8	14.8	10.4	<1
AQ216	713991,737518	20.9	14.3	10.2	1
AQ217	713176,738821	23.8	14.8	10.5	<1
AQ218	713196,738843	24.4	15.0	10.6	<1
AQ219	713839,738020	20.8	14.3	10.2	1
AQ220	713797,738159	20.7	14.3	10.2	<1
AQ221	713742,738142	20.4	14.2	10.1	1
AQ222	713329,738634	20.9	14.3	10.2	1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ223	713049,738954	20.9	14.3	10.2	<1
AQ224	715314,737046	20.9	14.3	10.2	<1
AQ225	715359,737115	21.3	14.4	10.2	<1
AQ226	715433,739637	21.3	14.3	10.2	<1
AQ227	714782,734168	31.9	16.6	11.4	1
AQ228	714806,734148	34.0	16.9	11.6	1
AQ229	714790,734058	34.0	16.7	11.5	1
AQ230	714768,734036	35.7	16.7	11.5	1
AQ231	714815,733986	26.3	15.4	10.8	<1
AQ232	714898,733940	24.3	14.9	10.5	<1
AQ233	714868,733938	24.5	14.9	10.5	<1
AQ234	715040,733934	27.7	15.5	10.8	<1
AQ235	714960,733960	26.0	15.2	10.6	<1
AQ236	715087,733873	26.6	15.3	10.7	<1
AQ237	714703,734262	34.8	18.9	12.7	2
AQ238	714716,734342	21.3	14.4	10.2	<1
AQ239	714723,734337	21.3	14.4	10.2	<1
AQ240	714735,734416	21.3	14.3	10.2	<1
AQ241	714738,734493	21.0	14.3	10.1	1
AQ242	714793,734626	21.8	14.4	10.2	<1
AQ243	714777,734605	21.5	14.3	10.2	<1
AQ244	714796,734634	22.0	14.4	10.2	<1
AQ245	714770,734550	21.2	14.3	10.2	<1
AQ246	714947,734693	28.5	15.7	10.9	1
AQ247	714953,734491	24.0	14.7	10.4	<1
AQ248	714951,734470	22.6	14.5	10.3	<1
AQ249	714958,734578	22.3	14.5	10.3	<1
AQ250	715173,734810	31.6	16.5	11.4	1
AQ251	715149,734779	27.9	15.9	11.0	1
AQ252	715114,734778	28.5	16.1	11.2	1
AQ253	714712,734756	23.6	14.8	10.4	<1
AQ254	714707,734771	24.9	15.1	10.6	<1
AQ255	714517,734365	27.4	15.4	10.8	<1
AQ256	714507,734382	25.7	15.2	10.7	<1
AQ257	714516,734462	23.4	14.8	10.4	<1
AQ258	714522,734505	24.0	14.9	10.5	<1
AQ259	714538,734639	27.8	15.7	11.0	1
AQ260	714540,734541	25.9	15.4	10.7	<1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ261	714663,734669	25.6	15.5	10.8	<1
AQ262	714575,734672	26.4	15.5	10.8	1
AQ263	714676,734657	24.1	15.0	10.6	<1
AQ264	714671,734746	23.5	14.8	10.4	<1
AQ265	714662,734762	24.7	15.0	10.6	<1
AQ266	714404,734696	24.9	15.0	10.6	<1
AQ267	714410,734682	24.2	14.9	10.5	<1
AQ268	714392,734685	23.2	14.7	10.4	<1
AQ269	714399,734732	24.3	14.8	10.5	<1
AQ270	714339,734787	21.2	14.4	10.2	<1
AQ271	714344,734781	21.3	14.4	10.2	<1
AQ272	714379,734734	22.4	14.5	10.3	<1
AQ273	714292,734856	21.1	14.4	10.2	<1
AQ274	714346,734806	21.6	14.6	10.3	<1
AQ275	714259,734954	21.7	14.5	10.3	<1
AQ276	714232,734942	21.9	14.5	10.3	<1
AQ277	714238,734930	22.2	14.5	10.3	<1
AQ278	714216,735009	20.8	14.4	10.2	<1
AQ279	714191,734990	20.7	14.3	10.2	<1
AQ280	714254,734966	21.8	14.6	10.3	<1
AQ281	714176,735042	21.1	14.5	10.3	<1
AQ282	714134,735080	20.5	14.4	10.2	<1
AQ283	714121,735080	20.5	14.3	10.2	1
AQ284	714021,735211	20.4	14.4	10.2	<1
AQ285	714028,735223	20.7	14.6	10.3	<1
AQ286	714012,735224	20.5	14.3	10.1	1
AQ287	713935,735463	22.6	14.8	10.4	<1
AQ288	713913,735489	23.7	15.0	10.5	<1
AQ289	713973,735329	20.9	14.5	10.2	<1
AQ290	714818,735878	22.7	14.5	10.3	<1
AQ291	714676,735906	22.0	14.6	10.3	<1
AQ292	715709,735720	28.7	16.0	11.1	1
AQ293	715700,735702	26.4	15.6	10.9	1
AQ294	715682,735736	25.9	15.6	10.8	1
AQ295	715667,735718	24.9	15.3	10.7	<1
AQ296	715727,735815	30.6	16.3	11.3	1
AQ297	715744,735788	27.2	15.8	11.0	1
AQ298	715756,735810	26.9	15.7	10.9	1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ299	715718,735803	28.4	15.9	11.0	1
AQ300	715799,735893	26.2	15.7	10.9	1
AQ301	715769,735905	26.3	15.7	10.9	1
AQ302	715775,735917	25.6	15.4	10.8	<1
AQ303	715814,735918	27.4	15.8	11.0	1
AQ304	715818,735992	29.1	15.8	11.0	1
AQ305	715846,735982	30.9	16.1	11.1	1
AQ306	715843,736047	31.5	16.7	11.5	1
AQ307	715872,736028	29.6	16.0	11.1	1
AQ308	715719,736094	21.7	14.5	10.2	<1
AQ309	715702,736101	21.4	14.4	10.2	<1
AQ310	715776,736219	20.7	14.2	10.1	1
AQ311	715759,736226	20.6	14.2	10.1	1
AQ312	715784,736236	20.7	14.2	10.1	1
AQ313	715771,736252	20.7	14.2	10.1	1
AQ314	715822,736361	20.6	14.2	10.1	1
AQ315	715840,736353	20.5	14.2	10.1	1
AQ316	715616,736364	20.6	14.2	10.1	1
AQ317	715623,736322	20.5	14.2	10.1	1
AQ318	715613,736350	20.5	14.2	10.1	1
AQ319	715635,736434	20.6	14.2	10.1	1
AQ320	715370,736516	21.0	14.3	10.2	1
AQ321	715389,736493	20.6	14.2	10.1	1
AQ322	715369,736493	20.6	14.2	10.1	1
AQ323	715391,736518	20.8	14.2	10.1	1
AQ324	715471,736389	20.4	14.2	10.1	1
AQ325	715056,736459	28.5	16.0	11.1	1
AQ326	715249,736428	20.7	14.2	10.1	1
AQ327	715248,736406	20.7	14.2	10.1	1
AQ328	715200,736539	21.3	14.3	10.2	<1
AQ329	715192,736521	20.9	14.3	10.1	1
AQ330	714753,736291	20.4	14.1	10.1	1
AQ331	714757,736304	20.4	14.1	10.1	1
AQ332	714737,736303	20.4	14.1	10.1	1
AQ333	714887,734697	31.4	16.1	11.1	1
AQ334	714918,734776	32.1	15.7	11.0	1
AQ335	714920,734871	29.0	15.6	10.9	1
AQ336	715161,734821	30.4	16.3	11.2	1



DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of PM <sub>10</sub> days >50 $\mu\text{g}/\text{m}^3$
		NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
AQ337	715050,734723	27.5	15.8	11.0	1
AQ338	715051,734749	28.4	16.1	11.2	1
AQ339	715094,734741	27.2	15.8	11.0	1
AQ340	715098,736591	29.5	15.7	10.9	1
AQ341	713864,738074	20.9	14.4	10.2	<1
AQ342	712749,739812	25.2	15.2	10.7	<1
AQ343	712613,739799	21.3	14.4	10.2	<1
AQ344	712753,739720	24.7	15.1	10.6	<1
AQ345	715026,734392	21.4	14.3	10.2	<1
AQ346	714997,734396	21.9	14.4	10.2	<1
AQ347	714828,734792	21.8	14.4	10.2	<1
AQ348	715093,734269	21.8	14.5	10.3	<1
AQ349	714999,736553	25.2	15.0	10.6	<1
AQ350	712507,739809	20.4	14.1	10.1	1
AQ351	714745,734486	21.1	14.3	10.2	1
AQ352	715510,740236	22.5	14.8	10.4	<1
AQ353	715191,735865	24.0	14.9	10.5	<1
AQ354	714829,734740	25.7	15.1	10.6	<1
AQ355	714829,734774	22.3	14.4	10.2	<1
AQ356	715571,737454	20.9	14.3	10.2	1
AQ357	715238,737251	21.0	14.3	10.2	<1
AQ358	715309,737551	20.2	14.1	10.1	1
AQ359	715213,737647	20.2	14.1	10.1	1
AQ360	715472,737544	22.6	14.8	10.4	<1
AQ361	713269,739047	22.3	14.6	10.3	<1
AQ362	715655,738657	20.1	14.1	10.1	1
AQ363	714840,736724	20.8	14.3	10.2	<1
AQ364	715306,737965	21.6	14.4	10.2	<1
AQ365	715330,738134	20.5	14.2	10.1	1
AQ366	715193,737898	20.4	14.2	10.1	1
AQ367	715005,737589	20.3	14.1	10.1	1
AQ368	713655,738228	20.0	14.1	10.1	1
AQ369	713028,738778	20.5	14.2	10.1	1
AQ370	715358,738994	20.8	14.3	10.1	1
AQ371	715430,739469	20.5	14.2	10.1	1
AQ372	715520,739462	20.7	14.3	10.2	1
AQ373	714738,734460	21.2	14.3	10.2	<1
AQ374	714853,734440	22.4	14.5	10.3	<1

DS (2043)					
Receptor	Receptor Location (ITM)	Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			No. of $\text{PM}_{10}$ days >50 $\mu\text{g}/\text{m}^3$
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$	
AQ375	715695,736814	22.0	14.5	10.3	<1
AQ376	715503,737018	21.4	14.4	10.2	<1
AQ377	715494,737000	20.7	14.2	10.1	1
AQ378	715828,736777	21.4	14.4	10.2	<1
AQ379	715831,736757	20.9	14.3	10.1	1
AQ380	715818,736759	20.9	14.2	10.1	1
AQ381	714961,735923	34.6	16.4	11.3	1
AQ382	714983,735876	30.9	16.3	11.3	1
AQ383	714948,735892	32.7	16.1	11.2	1
AQ384	714980,735923	36.8	17.0	11.6	1
<b>Air Quality Limit Value Objective</b>		<b>40</b>	<b>40</b>	<b>25</b>	<b>35</b>

In the cumulative 2043 DS scenario annual mean concentrations of  $\text{NO}_2$  are above the relevant national air quality limit value objective in some areas; one exceedance was modelled at a receptor on R132 Church Street. This is a decrease from the six exceedances modelled in the DM scenario. Annual mean  $\text{NO}_2$  concentrations did not exceed  $60\mu\text{g}/\text{m}^3$ , indicating that exceedances of the  $\text{NO}_2$  1-hour mean is unlikely to occur. Annual mean  $\text{PM}_{10}$  concentrations are below the relevant national air quality limit value objective for all modelled receptors. At all receptors, modelling of the maximum 24-hour  $\text{PM}_{10}$  concentration indicated that there is likely to be no more than two exceedance of the  $50\mu\text{g}/\text{m}^3$  ambient limit value compared to the threshold which allows 35 daily exceedances in any one calendar year. Annual mean  $\text{PM}_{2.5}$  concentrations are also below the relevant national air quality limit value objective for all modelled receptors.

### 3.3 Comparison of Do Something with Do Minimum

Table 3.3 provides the predicted change in and impact on pollutant concentrations, between the cumulative DM and DS in 2028. Pollutant concentrations have been outlined to one decimal place, where '<0.1' is reported, the pollutant concentration is considered to be less than this amount (i.e. two or more decimal places).

**Table 3.3: Predicted Changes in Cumulative Design DM and DS and Impact Significance Criteria At All Modelled Receptor Locations**

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ1	721010,729635	-1.1	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ2	721010,729636	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ3	721010,729637	-1.5	-0.6	-0.3	0	Negligible	Negligible	Negligible
AQ4	721010,729638	-1.8	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ5	721010,729639	-1.0	-0.3	-0.2	0	Negligible	Negligible	Negligible
AQ6	721010,729640	-1.0	-0.7	-0.3	0	Negligible	Negligible	Negligible
AQ7	721010,729641	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ8	721010,729642	-1.7	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ9	721010,729643	-2.0	-0.5	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ10	721010,729644	-1.5	-0.4	-0.2	0	Negligible	Negligible	Negligible
AQ11	721010,729645	-5.5	-0.3	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ12	721010,729646	-3.1	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ13	721010,729647	-4.9	-0.4	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ14	721010,729648	-5.4	-0.4	-0.2	0	Moderate Beneficial	Negligible	Negligible
AQ15	721010,729649	-4.1	-0.8	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ16	721010,729650	-3.9	-0.8	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ17	721010,729651	-5.5	-1.1	-0.6	0	Slight Beneficial	Negligible	Negligible
AQ18	721010,729652	-2.8	-0.5	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ19	721010,729653	-2.7	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ20	721010,729654	-1.3	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ21	721010,729655	-6.9	-1.8	-1.0	-1	Moderate Beneficial	Negligible	Negligible
AQ22	721010,729656	-1.2	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ23	721010,729657	-5.4	-1.4	-0.8	-1	Moderate Beneficial	Negligible	Negligible
AQ24	721010,729658	-7.7	-1.6	-0.9	0	Slight Beneficial	Negligible	Negligible
AQ25	721010,729659	-1.8	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ26	721010,729660	-1.7	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ27	721010,729661	-2.0	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ28	721010,729662	-7.9	-1.6	-0.9	-1	Substantial Beneficial	Negligible	Negligible
AQ29	721010,729663	-1.1	-0.6	-0.3	0	Negligible	Negligible	Negligible
AQ30	721010,729664	-1.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ31	721010,729665	-2.9	-0.9	-0.5	0	Slight Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ32	721010,729666	-0.2	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ33	721010,729667	-2.1	-0.8	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ34	721010,729668	-2.5	-1.5	-0.8	-1	Moderate Beneficial	Negligible	Negligible
AQ35	721010,729669	-2.8	-0.8	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ36	721010,729670	-5.3	-1.0	-0.6	0	Slight Beneficial	Negligible	Negligible
AQ37	721010,729671	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ38	721010,729672	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ39	721010,729673	-8.3	-1.6	-0.9	-1	Substantial Beneficial	Negligible	Negligible
AQ40	721010,729674	-1.9	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ41	721010,729675	-2.0	-0.5	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ42	721010,729676	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ43	721010,729677	-5.2	-1.1	-0.6	-1	Substantial Beneficial	Negligible	Negligible
AQ44	721010,729678	-7.8	-1.5	-0.8	0	Moderate Beneficial	Negligible	Negligible
AQ45	721010,729679	-8.0	-1.6	-0.9	-1	Moderate Beneficial	Negligible	Negligible
AQ46	721010,729680	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ47	721010,729681	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ48	721010,729682	-2.9	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ49	721010,729683	-2.2	-0.5	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ50	721010,729684	-3.1	-0.6	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ51	721010,729685	-5.1	-0.5	-0.3	-1	Substantial Beneficial	Negligible	Negligible
AQ52	721010,729686	-4.5	-0.9	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ53	721010,729687	-3.3	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ54	721010,729688	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ55	721010,729689	-1.3	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ56	721010,729690	-1.4	-0.4	-0.2	0	Negligible	Negligible	Negligible
AQ57	721010,729691	-1.5	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ58	721010,729692	-1.5	-0.4	-0.2	0	Negligible	Negligible	Negligible
AQ59	721010,729693	-0.3	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ60	721010,729694	-1.5	-0.6	-0.3	0	Negligible	Negligible	Negligible
AQ61	721010,729695	-0.3	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ62	721010,729696	-1.8	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ63	721010,729697	-1.6	-0.4	-0.2	0	Negligible	Negligible	Negligible
AQ64	721010,729698	-2.2	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ65	721010,729699	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ66	721010,729700	-1.2	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ67	721010,729701	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ68	721010,729702	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ69	721010,729703	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ70	721010,729704	-1.0	-0.4	-0.2	0	Negligible	Negligible	Negligible
AQ71	721010,729705	-1.1	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ72	721010,729706	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ73	721010,729707	-0.2	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ74	721010,729708	-1.0	-0.3	-0.2	0	Negligible	Negligible	Negligible
AQ75	721010,729709	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ76	721010,729710	-1.2	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ77	721010,729711	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ78	721010,729712	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ79	721010,729713	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ80	721010,729714	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ81	721010,729715	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ82	721010,729716	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ83	721010,729717	0.7	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ84	721010,729718	1.8	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ85	721010,729719	-1.8	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ86	721010,729720	0.3	-0.2	-0.1	0	Negligible	Negligible	Negligible
AQ87	721010,729721	0.4	-0.3	-0.1	0	Negligible	Negligible	Negligible
AQ88	721010,729722	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ89	721010,729723	-0.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ90	721010,729724	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ91	721010,729725	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ92	721010,729726	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ93	721010,729727	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ94	721010,729728	-1.0	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ95	721010,729729	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ96	721010,729730	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ97	721010,729731	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ98	721010,729732	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ99	721010,729733	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ100	721010,729734	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ101	721010,729735	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ102	721010,729736	-0.2	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ103	721010,729737	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ104	721010,729738	<0.1	-0.9	-0.5	0	Negligible	Negligible	Negligible
AQ105	721010,729739	-0.3	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ106	721010,729740	-2.2	-0.3	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ107	721010,729741	-1.7	-0.3	-0.2	<1	Negligible	Negligible	Negligible

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		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ108	721010,729742	-1.2	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ109	721010,729743	-4.9	-1.0	-0.6	0	Moderate Beneficial	Negligible	Negligible
AQ110	721010,729744	-3.0	-0.8	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ111	721010,729745	-2.0	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ112	721010,729746	-0.9	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ113	721010,729747	-2.3	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ114	721010,729748	-3.6	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ115	721010,729749	-4.6	-1.0	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ116	721010,729750	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ117	721010,729751	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ118	721010,729752	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ119	721010,729753	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ120	721010,729754	-2.8	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ121	721010,729755	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ122	721010,729756	-2.8	-0.4	-0.2	0	Slight Beneficial	Negligible	Negligible
AQ123	721010,729757	0.1	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ124	721010,729758	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ125	721010,729759	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ126	721010,729760	0.8	-1.0	-0.5	-1	Slight Adverse	Negligible	Negligible
AQ127	721010,729761	<0.1	-0.6	-0.3	0	Negligible	Negligible	Negligible
AQ128	721010,729762	-2.0	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ129	721010,729763	-0.8	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ130	721010,729764	-3.2	-0.7	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ131	721010,729765	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ132	721010,729766	-2.8	-0.6	-0.3	0	Negligible	Negligible	Negligible
AQ133	721010,729767	-1.2	-0.6	-0.3	0	Negligible	Negligible	Negligible
AQ134	721010,729768	-1.7	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ135	721010,729769	-1.8	-0.9	-0.5	-1	Slight Beneficial	Negligible	Negligible
AQ136	721010,729770	0.8	-0.9	-0.5	0	Slight Adverse	Negligible	Negligible
AQ137	721010,729771	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ138	721010,729772	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ139	721010,729773	-1.7	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ140	721010,729774	-4.2	-0.6	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ141	721010,729775	-6.4	-1.0	-0.6	0	Slight Beneficial	Negligible	Negligible
AQ142	721010,729776	-4.2	-0.6	-0.3	0	Slight Beneficial	Negligible	Negligible
AQ143	721010,729777	-2.2	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ144	721010,729778	-5.2	-1.0	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ145	721010,729779	-2.3	-0.5	-0.3	0	Negligible	Negligible	Negligible

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		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ146	721010,729780	-2.1	-0.5	-0.2	<1	Negligible	Negligible	Negligible
AQ147	721010,729781	-3.7	-0.9	-0.5	-1	Moderate Beneficial	Negligible	Negligible
AQ148	721010,729782	-1.6	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ149	721010,729783	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ150	721010,729784	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ151	721010,729785	-0.6	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ152	721010,729786	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ153	721010,729787	-0.5	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ154	721010,729788	-0.4	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ155	721010,729789	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ156	721010,729790	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ157	721010,729791	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ158	721010,729792	-0.8	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ159	721010,729793	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ160	721010,729794	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ161	721010,729795	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ162	721010,729796	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ163	721010,729797	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ164	721010,729798	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ165	721010,729799	-1.1	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ166	721010,729800	-1.2	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ167	721010,729801	-0.9	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ168	721010,729802	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ169	721010,729803	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ170	721010,729804	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ171	721010,729805	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ172	721010,729806	1.7	0.4	0.2	<1	Negligible	Negligible	Negligible
AQ173	721010,729807	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ174	721010,729808	0.6	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ175	721010,729809	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ176	721010,729810	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ177	721010,729811	-0.3	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ178	721010,729812	-0.3	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ179	721010,729813	-0.3	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ180	721010,729814	-0.4	-0.1	<0.1	0	Negligible	Negligible	Negligible
AQ181	721010,729815	-0.2	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ182	721010,729816	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ183	721010,729817	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible

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		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ184	721010,729818	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ185	721010,729819	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ186	721010,729820	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ187	721010,729821	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ188	721010,729822	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ189	721010,729823	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ190	721010,729824	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ191	721010,729825	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ192	721010,729826	<0.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ193	721010,729827	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ194	721010,729828	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ195	721010,729829	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ196	721010,729830	-2.8	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ197	721010,729831	-2.9	-0.7	-0.4	<1	Negligible	Negligible	Negligible
AQ198	721010,729832	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ199	721010,729833	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ200	721010,729834	0.2	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ201	721010,729835	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ202	721010,729836	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ203	721010,729837	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ204	721010,729838	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ205	721010,729839	1.0	0.2	0.1	<1	Negligible	Negligible	Negligible
AQ206	721010,729840	-0.4	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ207	721010,729841	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ208	721010,729842	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ209	721010,729843	-1.0	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ210	721010,729844	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ211	721010,729845	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ212	721010,729846	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ213	721010,729847	-0.6	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ214	721010,729848	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ215	721010,729849	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ216	721010,729850	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ217	721010,729851	-1.3	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ218	721010,729852	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ219	721010,729853	-0.5	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ220	721010,729854	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ221	721010,729855	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible



Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ222	721010,729856	-1.1	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ223	721010,729857	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ224	721010,729858	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ225	721010,729859	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ226	721010,729860	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ227	721010,729861	-4.4	-0.8	-0.5	0	Moderate Beneficial	Negligible	Negligible
AQ228	721010,729862	-6.2	-1.3	-0.7	-1	Substantial Beneficial	Negligible	Negligible
AQ229	721010,729863	-8.4	-1.7	-1.0	-1	Substantial Beneficial	Negligible	Negligible
AQ230	721010,729864	-4.0	-0.8	-0.5	0	Moderate Beneficial	Negligible	Negligible
AQ231	721010,729865	-8.3	-1.9	-1.0	<1	Slight Beneficial	Negligible	Negligible
AQ232	721010,729866	-5.9	-1.2	-0.7	<1	Slight Beneficial	Negligible	Negligible
AQ233	721010,729867	-5.8	-1.1	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ234	721010,729868	-6.7	-1.7	-1.0	<1	Slight Beneficial	Negligible	Negligible
AQ235	721010,729869	-6.7	-1.6	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ236	721010,729870	-3.2	-1.0	-0.5	<1	Negligible	Negligible	Negligible
AQ237	721010,729871	-0.7	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ238	721010,729872	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ239	721010,729873	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ240	721010,729874	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ241	721010,729875	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ242	721010,729876	-1.5	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ243	721010,729877	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ244	721010,729878	-1.9	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ245	721010,729879	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ246	721010,729880	-1.6	-0.4	-0.2	0	Negligible	Negligible	Negligible
AQ247	721010,729881	0.8	0.1	0.1	<1	Negligible	Negligible	Negligible
AQ248	721010,729882	0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ249	721010,729883	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ250	721010,729884	-1.2	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ251	721010,729885	-2.9	-0.7	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ252	721010,729886	-3.4	-0.8	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ253	721010,729887	-2.3	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ254	721010,729888	-3.4	-0.9	-0.5	<1	Negligible	Negligible	Negligible
AQ255	721010,729889	-4.0	-0.5	-0.3	<1	Slight Beneficial	Negligible	Negligible
AQ256	721010,729890	-2.6	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ257	721010,729891	-2.9	-0.6	-0.4	<1	Negligible	Negligible	Negligible
AQ258	721010,729892	-3.3	-0.8	-0.4	<1	Negligible	Negligible	Negligible
AQ259	721010,729893	-5.7	-1.4	-0.8	0	Slight Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ260	721010,729894	-4.2	-1.0	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ261	721010,729895	-3.1	-0.6	-0.3	<1	Negligible	Negligible	Negligible
AQ262	721010,729896	-3.6	-0.8	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ263	721010,729897	-2.2	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ264	721010,729898	-2.3	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ265	721010,729899	-3.3	-0.8	-0.4	<1	Negligible	Negligible	Negligible
AQ266	721010,729900	-6.9	-1.6	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ267	721010,729901	-3.9	-1.2	-0.6	<1	Negligible	Negligible	Negligible
AQ268	721010,729902	-3.8	-1.0	-0.5	<1	Negligible	Negligible	Negligible
AQ269	721010,729903	-10.2	-2.0	-1.1	<1	Slight Beneficial	Negligible	Negligible
AQ270	721010,729904	-5.0	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ271	721010,729905	-4.9	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ272	721010,729906	-6.0	-1.2	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ273	721010,729907	-3.8	-0.8	-0.4	<1	Negligible	Negligible	Negligible
AQ274	721010,729908	-8.2	-1.6	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ275	721010,729909	-5.4	-1.2	-0.7	<1	Slight Beneficial	Negligible	Negligible
AQ276	721010,729910	-2.9	-0.8	-0.4	<1	Negligible	Negligible	Negligible
AQ277	721010,729911	-3.5	-0.9	-0.5	<1	Negligible	Negligible	Negligible
AQ278	721010,729912	-5.7	-1.2	-0.7	<1	Slight Beneficial	Negligible	Negligible
AQ279	721010,729913	-4.2	-0.9	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ280	721010,729914	-7.4	-1.7	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ281	721010,729915	-10.4	-2.1	-1.1	<1	Slight Beneficial	Negligible	Negligible
AQ282	721010,729916	-6.8	-1.3	-0.7	<1	Slight Beneficial	Negligible	Negligible
AQ283	721010,729917	-4.7	-1.0	-0.5	<1	Slight Beneficial	Negligible	Negligible
AQ284	721010,729918	-6.9	-1.5	-0.8	<1	Slight Beneficial	Negligible	Negligible
AQ285	721010,729919	-11.5	-2.6	-1.4	<1	Slight Beneficial	Negligible	Negligible
AQ286	721010,729920	-3.8	-0.8	-0.5	<1	Negligible	Negligible	Negligible
AQ287	721010,729921	-12.3	-1.9	-1.1	<1	Slight Beneficial	Negligible	Negligible
AQ288	721010,729922	-12.5	-1.9	-1.1	<1	Moderate Beneficial	Negligible	Negligible
AQ289	721010,729923	-7.4	-1.6	-0.9	<1	Slight Beneficial	Negligible	Negligible
AQ290	721010,729924	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ291	721010,729925	-1.0	-0.3	-0.1	<1	Negligible	Negligible	Negligible
AQ292	721010,729926	-8.4	-1.7	-0.9	0	Moderate Beneficial	Negligible	Negligible
AQ293	721010,729927	-6.6	-1.3	-0.7	0	Slight Beneficial	Negligible	Negligible
AQ294	721010,729928	-5.7	-1.3	-0.7	0	Slight Beneficial	Negligible	Negligible
AQ295	721010,729929	-5.0	-1.1	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ296	721010,729930	-5.8	-1.6	-0.9	-1	Moderate Beneficial	Negligible	Negligible
AQ297	721010,729931	-5.7	-1.5	-0.8	0	Slight Beneficial	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ298	721010,729932	-5.6	-1.5	-0.8	0	Slight Beneficial	Negligible	Negligible
AQ299	721010,729933	-5.2	-1.4	-0.8	0	Slight Beneficial	Negligible	Negligible
AQ300	721010,729934	-5.9	-1.6	-0.9	0	Slight Beneficial	Negligible	Negligible
AQ301	721010,729935	-5.5	-1.5	-0.8	0	Slight Beneficial	Negligible	Negligible
AQ302	721010,729936	-4.3	-1.1	-0.6	<1	Slight Beneficial	Negligible	Negligible
AQ303	721010,729937	-5.3	-1.4	-0.8	0	Slight Beneficial	Negligible	Negligible
AQ304	721010,729938	-2.2	-1.1	-0.6	0	Slight Beneficial	Negligible	Negligible
AQ305	721010,729939	-2.3	-1.3	-0.7	0	Slight Beneficial	Negligible	Negligible
AQ306	721010,729940	-4.4	-1.7	-0.9	-1	Slight Beneficial	Negligible	Negligible
AQ307	721010,729941	-2.7	-1.2	-0.7	0	Slight Beneficial	Negligible	Negligible
AQ308	721010,729942	-1.8	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ309	721010,729943	-1.3	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ310	721010,729944	-2.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ311	721010,729945	-2.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ312	721010,729946	-2.6	-0.5	-0.2	<1	Negligible	Negligible	Negligible
AQ313	721010,729947	-2.7	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ314	721010,729948	-0.8	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ315	721010,729949	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ316	721010,729950	-2.7	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ317	721010,729951	-2.4	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ318	721010,729952	-2.0	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ319	721010,729953	-0.6	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ320	721010,729954	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ321	721010,729955	-0.5	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ322	721010,729956	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ323	721010,729957	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ324	721010,729958	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ325	721010,729959	-5.4	-0.7	-0.4	0	Slight Beneficial	Negligible	Negligible
AQ326	721010,729960	-1.8	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ327	721010,729961	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ328	721010,729962	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ329	721010,729963	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ330	721010,729964	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ331	721010,729965	-0.9	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ332	721010,729966	-0.5	-0.1	-0.1	0	Negligible	Negligible	Negligible
AQ333	721010,729967	-4.8	-1.1	-0.6	0	Moderate Beneficial	Negligible	Negligible
AQ334	721010,729968	-0.6	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ335	721010,729969	-1.0	-0.5	-0.3	0	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ336	721010,729970	-1.3	-0.5	-0.3	0	Negligible	Negligible	Negligible
AQ337	721010,729971	-3.7	-0.9	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ338	721010,729972	-3.9	-1.0	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ339	721010,729973	-4.2	-0.9	-0.5	0	Slight Beneficial	Negligible	Negligible
AQ340	721010,729974	-1.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ341	721010,729975	-1.0	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ342	721010,729976	0.6	0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ343	721010,729977	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ344	721010,729978	2.2	0.4	0.2	<1	Negligible	Negligible	Negligible
AQ345	721010,729979	-0.2	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ346	721010,729980	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ347	721010,729981	-1.2	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ348	721010,729982	-0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ349	721010,729983	-0.5	-0.4	-0.2	<1	Negligible	Negligible	Negligible
AQ350	721010,729984	0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ351	721010,729985	-0.7	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ352	721010,729986	-1.5	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ353	721010,729987	-1.1	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ354	721010,729988	-1.8	-0.5	-0.3	<1	Negligible	Negligible	Negligible
AQ355	721010,729989	-1.5	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ356	721010,729990	-0.4	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ357	721010,729991	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ358	721010,729992	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ359	721010,729993	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ360	721010,729994	-1.3	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ361	721010,729995	-0.3	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ362	721010,729996	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ363	721010,729997	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ364	721010,729998	-0.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ365	721010,729999	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ366	721010,730000	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ367	721010,730001	<0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ368	721010,730002	-1.5	-0.3	-0.2	<1	Negligible	Negligible	Negligible
AQ369	721010,730003	-0.8	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ370	721010,730004	-0.4	-0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ371	721010,730005	-0.5	-0.1	-0.1	<1	Negligible	Negligible	Negligible
AQ372	721010,730006	-0.6	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ373	721010,730007	-0.6	-0.1	-0.1	<1	Negligible	Negligible	Negligible

Receptor	Receptor Location (ITM)	Change in Annual Mean Conc. ( $\mu\text{g}/\text{m}^3$ )			Change in No of $\text{PM}_{10}$ days > 50 $\mu\text{g}/\text{m}^3$	Impact on Annual Mean Conc.		
		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$		$\text{NO}_2$	$\text{PM}_{10}$	$\text{PM}_{2.5}$
AQ374	721010,730008	-0.7	-0.2	-0.1	<1	Negligible	Negligible	Negligible
AQ375	721010,730009	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ376	721010,730010	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ377	721010,730011	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ378	721010,730012	<0.1	<0.1	<0.1	<1	Negligible	Negligible	Negligible
AQ379	721010,730013	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ380	721010,730014	-0.1	<0.1	<0.1	0	Negligible	Negligible	Negligible
AQ381	721010,730015	0.2	-0.8	-0.4	0	Negligible	Negligible	Negligible
AQ382	721010,730016	-1.6	-0.6	-0.3	0	Negligible	Negligible	Negligible
AQ383	721010,730017	-0.1	-0.7	-0.4	0	Negligible	Negligible	Negligible
AQ384	721010,730018	-0.1	-0.9	-0.5	-1	Negligible	Negligible	Negligible

The significance of the changes in the concentration of each of the ambient receptors has been determined in the context of the TII significance criteria (TII 2011), as described in Section 7.2.4.1.4 in Chapter 7 (Air Quality) in Volume 2. The majority of modelled receptors are estimated to experience a negligible impact due to the Proposed Scheme in terms of the annual mean  $\text{NO}_2$  concentration. A slightly beneficial impact is estimated at 72 receptors, a moderate beneficial impact at 15 receptors and a substantial beneficial impact at six receptors. A slight adverse impact is estimated at two receptors. The Proposed Scheme is overall neutral in terms of annual mean  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$  concentrations, with all receptors experiencing a negligible impact.