

Iron Mountain (UK) Data Centre Limited

Lon3 Data Centre

EPR/TP3120LE/A001

Response to Request for Additional Information on Air Quality

NO₂

With reference to the 1-hour mean 99.79th percentile NO₂ environmental standard, the air quality modelling report has already provided an assessment of this in two ways:

- Assessment of the probability of exceeding the environmental standard under emergency conditions in Table 6.1 and Table 7.1. The hypergeometric probability function is used for the assessment of compliance with the 1-hour mean NO₂ objective as the generators do not operate continuously, either in testing or an emergency.
- Provision of the 100th percentile hourly mean NO₂ concentration in Table 6.3 and Table 7.3 for emergency conditions and Table 6.15 and Table 7.15 for testing conditions. The 100th percentile is used for compliance against AEGL criteria. As the 100th percentile is a higher concentration than the 99.79th this can be used for consideration of the impacts of the emissions from the generators in an emergency.

Nevertheless, the following tables provide the requested 99.79th percentile concentrations. As anticipated, in all cases the 99.79th percentile concentrations are slightly lower than the 100th percentile concentrations provided in the report.

99.79th Percentile Hourly Mean NO₂ Results

Table 1: Predicted 99.79 th percentile NO ₂ Concentrations for Emergency Operation (µg/m ³) Lon03 alone					
Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R1_1	1.5	201.4	41.8	243.2	122
R1_2	3.5	201.5	41.8	243.3	122
R1_3	6.5	201.8	41.8	243.6	122
R2	1.5	200.0	41.8	241.8	121
R3	1.5	286.4	41.8	328.2	164
R4	1.5	184.7	41.8	226.5	113
R5	1.5	223.2	41.8	265.0	132
R6	1.5	191.5	41.8	233.3	117
R7	1.5	181.1	41.8	222.9	111
R8	1.5	133.0	41.8	174.8	87
R9	1.5	196.4	41.8	238.2	119
R10	1.5	163.7	41.8	205.5	103
R11	1.5	255.2	41.8	297.0	148
R12	1.5	216.1	41.8	257.9	129
R13	1.5	136.5	41.8	178.3	89

Table 1: Predicted 99.79th percentile NO₂ Concentrations for Emergency Operation (µg/m³) Lon03 alone

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R14	1.5	123.4	41.8	165.2	83
R15	1.5	148.2	41.8	190.0	95
R16	1.5	114.6	41.8	156.4	78
R17	1.5	216.3	41.8	258.1	129
R18	1.5	177.3	41.8	219.1	110
R19	1.5	149.8	41.8	191.6	96
AR1	1.5	417.8	41.8	459.6	230
AR2	1.5	441.9	41.8	483.7	242
AR3	1.5	349.0	41.8	390.8	195
AR4	1.5	324.4	41.8	366.2	183
AR5	1.5	332.3	41.8	374.1	187
AR6	1.5	343.2	41.8	385.0	193
AR7	1.5	348.7	41.8	390.5	195
AR8	1.5	366.6	41.8	408.4	204
AR9	1.5	365.5	41.8	407.3	204
AR10	1.5	327.5	41.8	369.3	185
AR11	1.5	333.2	41.8	375.0	188
AR12	1.5	346.9	41.8	388.7	194
AR13	1.5	351.1	41.8	392.9	196
AR14	1.5	375.3	41.8	417.1	209
AR15	1.5	365.3	41.8	407.1	204
AR16	1.5	347.7	41.8	389.5	195
AR17	1.5	343.6	41.8	385.4	193
AR18	1.5	350.1	41.8	391.9	196
AR19	1.5	331.5	41.8	373.3	187
AR20	1.5	335.2	41.8	377.0	188
AR21	1.5	328.8	41.8	370.6	185
AR22	1.5	332.7	41.8	374.5	187
AR23	1.5	261.6	41.8	303.4	152
AR24	1.5	265.1	41.8	306.9	153
AR25	1.5	374.1	41.8	415.9	208
AR26	1.5	369.0	41.8	410.8	205

Table 1: Predicted 99.79th percentile NO₂ Concentrations for Emergency Operation (µg/m³) Lon03 alone

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
AR27	1.5	338.7	41.8	380.5	190
AR28	1.5	281.0	41.8	322.8	161
AR29	1.5	310.5	41.8	352.3	176
AR30	1.5	329.6	41.8	371.4	186
AR31	1.5	341.0	41.8	382.8	191
AR32	1.5	274.1	41.8	315.9	158
AR33	1.5	246.3	41.8	288.1	144

Table 2: Predicted 99.79th percentile NO Concentrations for Emergency Operation (µg/m³) Lon02 and Lon03

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R1_1	1.5	479	41.8	520	260
R1_2	3.5	482	41.8	524	262
R1_3	6.5	487	41.8	529	264
R2	1.5	512	41.8	554	277
R3	1.5	401	41.8	443	222
R4	1.5	234	41.8	275	138
R5	1.5	297	41.8	338	169
R6	1.5	251	41.8	293	146
R7	1.5	236	41.8	278	139
R8	1.5	179	41.8	221	110
R9	1.5	232	41.8	274	137
R10	1.5	202	41.8	244	122
R11	1.5	326	41.8	368	184
R12	1.5	270	41.8	311	156
R13	1.5	145	41.8	187	93
R14	1.5	138	41.8	179	90
R15	1.5	156	41.8	198	99
R16	1.5	157	41.8	199	99
R17	1.5	328	41.8	370	185
R18	1.5	280	41.8	322	161
R19	1.5	369	41.8	410	205

Table 2: Predicted 99.79th percentile NO Concentrations for Emergency Operation ($\mu\text{g}/\text{m}^3$) Lon02 and Lon03

Receptor	Height (m)	99.79 th Percentile NO ₂ PC ($\mu\text{g}/\text{m}^3$)	Background NO ₂	PEC NO ₂ ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR1	1.5	481	41.8	523	261
AR2	1.5	530	41.8	572	286
AR3	1.5	382	41.8	424	212
AR4	1.5	346	41.8	388	194
AR5	1.5	363	41.8	405	202
AR6	1.5	373	41.8	415	207
AR7	1.5	376	41.8	417	209
AR8	1.5	391	41.8	433	216
AR9	1.5	391	41.8	433	216
AR10	1.5	350	41.8	391	196
AR11	1.5	363	41.8	405	202
AR12	1.5	379	41.8	421	211
AR13	1.5	379	41.8	421	210
AR14	1.5	395	41.8	437	218
AR15	1.5	393	41.8	435	217
AR16	1.5	380	41.8	421	211
AR17	1.5	370	41.8	412	206
AR18	1.5	381	41.8	423	211
AR19	1.5	357	41.8	399	199
AR20	1.5	366	41.8	408	204
AR21	1.5	351	41.8	393	197
AR22	1.5	361	41.8	403	201
AR23	1.5	321	41.8	363	181
AR24	1.5	317	41.8	359	179
AR25	1.5	396	41.8	437	219
AR26	1.5	390	41.8	432	216
AR27	1.5	368	41.8	409	205
AR28	1.5	375	41.8	417	208
AR29	1.5	350	41.8	392	196
AR30	1.5	355	41.8	396	198
AR31	1.5	370	41.8	412	206
AR32	1.5	290	41.8	331	166

Table 2: Predicted 99.79th percentile NO Concentrations for Emergency Operation ($\mu\text{g}/\text{m}^3$) Lon02 and Lon03

Receptor	Height (m)	99.79 th Percentile NO ₂ PC ($\mu\text{g}/\text{m}^3$)	Background NO ₂	PEC NO ₂ ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR33	1.5	246	41.8	288	144

Lon-3 North Testing Scenario Results

Table 3: Predicted 99.79th percentile NO₂ Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon03 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC ($\mu\text{g}/\text{m}^3$)	Background NO ₂	PEC NO ₂ ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R1_1	1.5	12.8	41.8	54.6	27.3
R1_2	3.5	12.8	41.8	54.6	27.3
R1_3	6.5	12.7	41.8	54.5	27.2
R2	1.5	11.3	41.8	53.1	26.5
R3	1.5	21.2	41.8	63.0	31.5
R4	1.5	9.1	41.8	50.9	25.5
R5	1.5	10.4	41.8	52.2	26.1
R6	1.5	12.0	41.8	53.8	26.9
R7	1.5	10.8	41.8	52.6	26.3
R8	1.5	7.3	41.8	49.1	24.6
R9	1.5	10.9	41.8	52.7	26.4
R10	1.5	10.2	41.8	52.0	26.0
R11	1.5	11.7	41.8	53.5	26.8
R12	1.5	9.4	41.8	51.2	25.6
R13	1.5	8.1	41.8	49.9	25.0
R14	1.5	8.0	41.8	49.8	24.9
R15	1.5	9.4	41.8	51.2	25.6
R16	1.5	5.9	41.8	47.7	23.8
R17	1.5	9.3	41.8	51.1	25.6
R18	1.5	7.3	41.8	49.1	24.5
R19	1.5	8.1	41.8	49.9	24.9
AR1	1.5	28.2	41.8	70.0	35.0
AR2	1.5	26.4	41.8	68.2	34.1
AR3	1.5	36.3	41.8	78.1	39.0
AR4	1.5	19.0	41.8	60.8	30.4
AR5	1.5	20.4	41.8	62.2	31.1

Table 3: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon03 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
AR6	1.5	22.3	41.8	64.1	32.1
AR7	1.5	22.7	41.8	64.5	32.3
AR8	1.5	36.3	41.8	78.1	39.0
AR9	1.5	36.3	41.8	78.1	39.0
AR10	1.5	19.3	41.8	61.1	30.5
AR11	1.5	20.4	41.8	62.2	31.1
AR12	1.5	22.4	41.8	64.2	32.1
AR13	1.5	22.8	41.8	64.6	32.3
AR14	1.5	23.1	41.8	64.9	32.5
AR15	1.5	36.3	41.8	78.1	39.0
AR16	1.5	22.4	41.8	64.2	32.1
AR17	1.5	22.4	41.8	64.2	32.1
AR18	1.5	22.8	41.8	64.6	32.3
AR19	1.5	19.6	41.8	61.4	30.7
AR20	1.5	20.4	41.8	62.2	31.1
AR21	1.5	15.3	41.8	57.1	28.5
AR22	1.5	19.9	41.8	61.7	30.8
AR23	1.5	13.4	41.8	55.2	27.6
AR24	1.5	15.2	41.8	57.0	28.5
AR25	1.5	23.0	41.8	64.8	32.4
AR26	1.5	22.8	41.8	64.6	32.3
AR27	1.5	23.0	41.8	64.8	32.4
AR28	1.5	20.6	41.8	62.4	31.2
AR29	1.5	21.4	41.8	63.2	31.6
AR30	1.5	22.7	41.8	64.5	32.2
AR31	1.5	22.4	41.8	64.2	32.1
AR32	1.5	20.0	41.8	61.8	30.9
AR33	1.5	18.0	41.8	59.8	29.9

Lon-3 South Testing Scenario Results

Table 4: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon03 South

Receptor	Height (m)	100 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R1_1	1.5	12.2	41.8	54.0	27.0
R1_2	3.5	12.2	41.8	54.0	27.0
R1_3	6.5	12.1	41.8	53.9	27.0
R2	1.5	11.4	41.8	53.2	26.6
R3	1.5	21.1	41.8	62.9	31.5
R4	1.5	10.3	41.8	52.1	26.1
R5	1.5	11.9	41.8	53.7	26.9
R6	1.5	10.4	41.8	52.2	26.1
R7	1.5	9.5	41.8	51.3	25.6
R8	1.5	6.8	41.8	48.6	24.3
R9	1.5	10.0	41.8	51.8	25.9
R10	1.5	8.0	41.8	49.8	24.9
R11	1.5	10.1	41.8	51.9	25.9
R12	1.5	8.1	41.8	49.9	24.9
R13	1.5	6.4	41.8	48.2	24.1
R14	1.5	6.2	41.8	48.0	24.0
R15	1.5	7.6	41.8	49.4	24.7
R16	1.5	5.7	41.8	47.5	23.8
R17	1.5	9.0	41.8	50.8	25.4
R18	1.5	7.6	41.8	49.4	24.7
R19	1.5	7.4	41.8	49.2	24.6
AR1	1.5	29.6	41.8	71.4	35.7
AR2	1.5	27.4	41.8	69.2	34.6
AR3	1.5	21.0	41.8	62.8	31.4
AR4	1.5	22.1	41.8	63.9	32.0
AR5	1.5	22.2	41.8	64.0	32.0
AR6	1.5	21.8	41.8	63.6	31.8
AR7	1.5	21.6	41.8	63.4	31.7
AR8	1.5	21.2	41.8	63.0	31.5
AR9	1.5	21.5	41.8	63.3	31.6
AR10	1.5	22.2	41.8	64.0	32.0
AR11	1.5	22.2	41.8	64.0	32.0

Table 4: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon03 South

Receptor	Height (m)	100 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
AR12	1.5	22.0	41.8	63.8	31.9
AR13	1.5	21.8	41.8	63.6	31.8
AR14	1.5	21.3	41.8	63.1	31.5
AR15	1.5	21.1	41.8	62.9	31.4
AR16	1.5	22.1	41.8	63.9	31.9
AR17	1.5	22.1	41.8	63.9	32.0
AR18	1.5	21.8	41.8	63.6	31.8
AR19	1.5	22.3	41.8	64.1	32.1
AR20	1.5	22.1	41.8	63.9	31.9
AR21	1.5	22.2	41.8	64.0	32.0
AR22	1.5	22.1	41.8	63.9	32.0
AR23	1.5	20.2	41.8	62.0	31.0
AR24	1.5	21.2	41.8	63.0	31.5
AR25	1.5	21.3	41.8	63.1	31.6
AR26	1.5	21.2	41.8	63.0	31.5
AR27	1.5	21.2	41.8	63.0	31.5
AR28	1.5	20.3	41.8	62.1	31.1
AR29	1.5	21.0	41.8	62.8	31.4
AR30	1.5	21.3	41.8	63.1	31.6
AR31	1.5	21.4	41.8	63.2	31.6
AR32	1.5	13.8	41.8	55.6	27.8
AR33	1.5	12.3	41.8	54.1	27.1

Lon-3 and Lon-2 North Testing Scenario Results

Table 5: Predicted 99.79th percentile NO₂ Concentrations for Testing Lon3 and Lon2 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R1_1	1.5	32.3	41.8	74.1	37.0
R1_2	3.5	32.3	41.8	74.1	37.0
R1_3	6.5	32.4	41.8	74.2	37.1
R2	1.5	33.3	41.8	75.1	37.5
R3	1.5	33.8	41.8	75.6	37.8

Table 5: Predicted 99.79th percentile NO₂ Concentrations for Testing Lon3 and Lon2 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R4	1.5	14.6	41.8	56.4	28.2
R5	1.5	17.5	41.8	59.3	29.6
R6	1.5	16.3	41.8	58.1	29.0
R7	1.5	15.3	41.8	57.1	28.5
R8	1.5	11.1	41.8	52.9	26.4
R9	1.5	15.3	41.8	57.1	28.6
R10	1.5	13.6	41.8	55.4	27.7
R11	1.5	19.8	41.8	61.6	30.8
R12	1.5	15.2	41.8	57.0	28.5
R13	1.5	10.7	41.8	52.5	26.2
R14	1.5	10.3	41.8	52.1	26.0
R15	1.5	10.8	41.8	52.6	26.3
R16	1.5	10.5	41.8	52.3	26.1
R17	1.5	17.5	41.8	59.3	29.7
R18	1.5	16.3	41.8	58.1	29.1
R19	1.5	21.3	41.8	63.1	31.6
AR1	1.5	41.8	41.8	83.6	41.8
AR2	1.5	41.0	41.8	82.8	41.4
AR3	1.5	36.3	41.8	78.1	39.0
AR4	1.5	23.0	41.8	64.8	32.4
AR5	1.5	23.4	41.8	65.2	32.6
AR6	1.5	28.4	41.8	70.2	35.1
AR7	1.5	30.0	41.8	71.8	35.9
AR8	1.5	36.3	41.8	78.1	39.0
AR9	1.5	36.3	41.8	78.1	39.0
AR10	1.5	22.0	41.8	63.8	31.9
AR11	1.5	23.4	41.8	65.2	32.6
AR12	1.5	28.1	41.8	69.9	34.9
AR13	1.5	29.7	41.8	71.5	35.8
AR14	1.5	31.2	41.8	73.0	36.5
AR15	1.5	36.3	41.8	78.1	39.0
AR16	1.5	28.2	41.8	70.0	35.0

Table 5: Predicted 99.79th percentile NO₂ Concentrations for Testing Lon3 and Lon2 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
AR17	1.5	28.5	41.8	70.3	35.1
AR18	1.5	29.7	41.8	71.5	35.7
AR19	1.5	22.3	41.8	64.1	32.1
AR20	1.5	23.4	41.8	65.2	32.6
AR21	1.5	17.4	41.8	59.2	29.6
AR22	1.5	23.2	41.8	65.0	32.5
AR23	1.5	24.0	41.8	65.8	32.9
AR24	1.5	23.5	41.8	65.3	32.7
AR25	1.5	30.9	41.8	72.7	36.3
AR26	1.5	31.9	41.8	73.7	36.8
AR27	1.5	30.5	41.8	72.3	36.2
AR28	1.5	34.8	41.8	76.6	38.3
AR29	1.5	30.6	41.8	72.4	36.2
AR30	1.5	29.1	41.8	70.9	35.5
AR31	1.5	32.6	41.8	74.4	37.2
AR32	1.5	22.6	41.8	64.4	32.2
AR33	1.5	20.0	41.8	61.8	30.9

Lon-3 and Lon-2 South Testing Scenario Results

Table 6: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon3 and Lon2 South

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R1_1	1.5	36.2	41.8	78.0	39.0
R1_2	3.5	36.2	41.8	78.0	39.0
R1_3	6.5	36.4	41.8	78.2	39.1
R2	1.5	31.4	41.8	73.2	36.6
R3	1.5	35.0	41.8	76.8	38.4
R4	1.5	16.0	41.8	57.8	28.9
R5	1.5	19.7	41.8	61.5	30.8
R6	1.5	15.6	41.8	57.4	28.7
R7	1.5	14.8	41.8	56.6	28.3
R8	1.5	11.1	41.8	52.9	26.5

Table 6: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon3 and Lon2 South

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R9	1.5	13.4	41.8	55.2	27.6
R10	1.5	11.4	41.8	53.2	26.6
R11	1.5	15.9	41.8	57.7	28.8
R12	1.5	13.0	41.8	54.8	27.4
R13	1.5	8.9	41.8	50.7	25.4
R14	1.5	8.3	41.8	50.1	25.1
R15	1.5	9.6	41.8	51.4	25.7
R16	1.5	9.3	41.8	51.1	25.5
R17	1.5	17.5	41.8	59.3	29.6
R18	1.5	14.7	41.8	56.5	28.3
R19	1.5	21.5	41.8	63.3	31.6
AR1	1.5	31.4	41.8	73.2	36.6
AR2	1.5	32.3	41.8	74.1	37.1
AR3	1.5	24.0	41.8	65.8	32.9
AR4	1.5	29.5	41.8	71.3	35.7
AR5	1.5	28.3	41.8	70.1	35.0
AR6	1.5	26.9	41.8	68.7	34.3
AR7	1.5	27.7	41.8	69.5	34.8
AR8	1.5	26.4	41.8	68.2	34.1
AR9	1.5	26.1	41.8	67.9	34.0
AR10	1.5	29.6	41.8	71.4	35.7
AR11	1.5	27.6	41.8	69.4	34.7
AR12	1.5	25.4	41.8	67.2	33.6
AR13	1.5	27.9	41.8	69.7	34.9
AR14	1.5	26.3	41.8	68.1	34.1
AR15	1.5	24.2	41.8	66.0	33.0
AR16	1.5	28.7	41.8	70.5	35.3
AR17	1.5	27.6	41.8	69.4	34.7
AR18	1.5	28.1	41.8	69.9	34.9
AR19	1.5	28.9	41.8	70.7	35.3
AR20	1.5	28.3	41.8	70.1	35.1
AR21	1.5	29.6	41.8	71.4	35.7

Table 6: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon3 and Lon2 South

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
AR22	1.5	27.1	41.8	68.9	34.4
AR23	1.5	30.3	41.8	72.1	36.0
AR24	1.5	28.1	41.8	69.9	35.0
AR25	1.5	26.4	41.8	68.2	34.1
AR26	1.5	23.9	41.8	65.7	32.8
AR27	1.5	24.5	41.8	66.3	33.2
AR28	1.5	31.8	41.8	73.6	36.8
AR29	1.5	26.4	41.8	68.2	34.1
AR30	1.5	23.3	41.8	65.1	32.5
AR31	1.5	23.6	41.8	65.4	32.7
AR32	1.5	16.3	41.8	58.1	29.1
AR33	1.5	14.6	41.8	56.4	28.2

Lon-3 Admin generator and Lon-2 North Testing Scenario Results

Table 7: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon3 Admin and Lon2 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R1_1	1.5	23.4	41.8	65.2	32.6
R1_2	3.5	23.6	41.8	65.4	32.5
R1_3	6.5	24.0	41.8	65.8	32.6
R2	1.5	27.7	41.8	69.5	34.2
R3	1.5	29.7	41.8	71.5	35.0
R4	1.5	9.1	41.8	50.9	24.8
R5	1.5	9.7	41.8	51.5	25.0
R6	1.5	7.1	41.8	48.9	23.6
R7	1.5	6.7	41.8	48.5	23.3
R8	1.5	5.2	41.8	47.0	22.5
R9	1.5	8.8	41.8	50.6	24.1
R10	1.5	6.7	41.8	48.5	23.0
R11	1.5	10.3	41.8	52.1	24.6
R12	1.5	8.0	41.8	49.8	23.4
R13	1.5	5.9	41.8	47.7	22.3

Table 7: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon3 Admin and Lon2 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
R14	1.5	6.3	41.8	48.1	22.3
R15	1.5	7.9	41.8	49.7	23.0
R16	1.5	7.2	41.8	49.0	22.6
R17	1.5	11.9	41.8	53.7	24.6
R18	1.5	10.4	41.8	52.2	23.8
R19	1.5	15.0	41.8	56.8	25.8
AR1	1.5	32.0	41.8	73.8	33.4
AR2	1.5	33.7	41.8	75.5	34.0
AR3	1.5	111.1	41.8	152.9	68.6
AR4	1.5	23.1	41.8	64.9	29.0
AR5	1.5	28.5	41.8	70.3	31.3
AR6	1.5	23.3	41.8	65.1	28.8
AR7	1.5	37.5	41.8	79.3	34.9
AR8	1.5	72.7	41.8	114.5	50.2
AR9	1.5	86.7	41.8	128.5	56.1
AR10	1.5	11.6	41.8	53.4	23.2
AR11	1.5	27.7	41.8	69.5	30.1
AR12	1.5	23.3	41.8	65.1	28.1
AR13	1.5	37.5	41.8	79.3	34.0
AR14	1.5	72.7	41.8	114.5	48.9
AR15	1.5	86.7	41.8	128.5	54.7
AR16	1.5	23.1	41.8	64.9	27.5
AR17	1.5	22.7	41.8	64.5	27.2
AR18	1.5	23.2	41.8	65.0	27.3
AR19	1.5	8.5	41.8	50.3	21.1
AR20	1.5	27.7	41.8	69.5	29.0
AR21	1.5	7.3	41.8	49.1	20.4
AR22	1.5	27.2	41.8	69.0	28.5
AR23	1.5	14.3	41.8	56.1	23.1
AR24	1.5	21.1	41.8	62.9	25.8
AR25	1.5	23.4	41.8	65.2	26.6
AR26	1.5	24.1	41.8	65.9	26.8

Table 7: Predicted 99.79th percentile NO₂ Concentrations for Testing (µg/m³) Lon3 Admin and Lon2 North

Receptor	Height (m)	99.79 th Percentile NO ₂ PC (µg/m ³)	Background NO ₂	PEC NO ₂ (µg/m ³)	PEC % EAL
AR27	1.5	24.6	41.8	66.4	26.9
AR28	1.5	26.7	41.8	68.5	27.6
AR29	1.5	27.6	41.8	69.4	27.9
AR30	1.5	27.4	41.8	69.2	27.7
AR31	1.5	23.2	41.8	65.0	25.9
AR32	1.5	11.0	41.8	52.8	20.9
AR33	1.5	10.7	41.8	52.5	20.8

NO

For the assessment of NO impacts the conversion factors for NO_x to NO are opposite to those for NO₂:

- Hourly mean 0.85 with 500m and 0.65 beyond 500m

The annual mean background NO concentration has been taken from the difference between the NO_x and NO₂ concentrations in grid square 495500 181500 which is the highest for the grid squares closest to the site. The hourly mean background NO concentration is assumed to be twice this value.

The NO results are presented in the following tables, and all impacts are not significant, as would be anticipated from the relative assessment levels of NO to NO₂.

100th Percentile Hourly Mean NO Results

Table 8: Predicted 100th percentile NO Concentrations for Emergency Operation (µg/m³) Lon03 alone

Receptor	Height (m)	100 th Percentile NO PC (µg/m ³)	Background NO	PEC NO (µg/m ³)	PEC % EAL
R1_1	1.5	1242	19.8	1262	28.7
R1_2	3.5	1244	19.8	1264	28.7
R1_3	6.5	1250	19.8	1270	28.9
R2	1.5	1212	19.8	1232	28.0
R3	1.5	1708	19.8	1728	39.3
R4	1.5	540	19.8	560	12.7
R5	1.5	630	19.8	650	14.8
R6	1.5	1135	19.8	1155	26.3
R7	1.5	1057	19.8	1076	24.5
R8	1.5	828	19.8	848	19.3
R9	1.5	1225	19.8	1245	28.3
R10	1.5	1011	19.8	1031	23.4
R11	1.5	594	19.8	614	13.9

Table 8: Predicted 100th percentile NO Concentrations for Emergency Operation ($\mu\text{g}/\text{m}^3$) Lon03 alone

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R12	1.5	514	19.8	534	12.1
R13	1.5	811	19.8	831	18.9
R14	1.5	751	19.8	771	17.5
R15	1.5	895	19.8	915	20.8
R16	1.5	744	19.8	764	17.4
R17	1.5	561	19.8	581	13.2
R18	1.5	447	19.8	467	10.6
R19	1.5	945	19.8	965	21.9
AR1	1.5	2664	19.8	2684	61.0
AR2	1.5	2760	19.8	2780	63.2
AR3	1.5	2293	19.8	2313	52.6
AR4	1.5	2175	19.8	2194	49.9
AR5	1.5	2234	19.8	2254	51.2
AR6	1.5	2245	19.8	2265	51.5
AR7	1.5	2265	19.8	2285	51.9
AR8	1.5	2341	19.8	2361	53.6
AR9	1.5	2328	19.8	2348	53.4
AR10	1.5	2317	19.8	2337	53.1
AR11	1.5	2211	19.8	2231	50.7
AR12	1.5	2260	19.8	2280	51.8
AR13	1.5	2325	19.8	2345	53.3
AR14	1.5	2390	19.8	2410	54.8
AR15	1.5	2319	19.8	2339	53.2
AR16	1.5	2297	19.8	2317	52.7
AR17	1.5	2204	19.8	2224	50.5
AR18	1.5	2353	19.8	2373	53.9
AR19	1.5	2308	19.8	2327	52.9
AR20	1.5	2208	19.8	2228	50.6
AR21	1.5	2047	19.8	2067	47.0
AR22	1.5	2130	19.8	2150	48.9
AR23	1.5	1708	19.8	1728	39.3
AR24	1.5	1703	19.8	1723	39.2

Table 8: Predicted 100th percentile NO Concentrations for Emergency Operation ($\mu\text{g}/\text{m}^3$) Lon03 alone

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR25	1.5	2425	19.8	2445	55.6
AR26	1.5	2354	19.8	2374	54.0
AR27	1.5	2114	19.8	2134	48.5
AR28	1.5	1771	19.8	1791	40.7
AR29	1.5	1885	19.8	1904	43.3
AR30	1.5	2096	19.8	2116	48.1
AR31	1.5	2199	19.8	2219	50.4
AR32	1.5	1581	19.8	1601	36.4
AR33	1.5	1466	19.8	1485	33.8

Table 9: Predicted 100th percentile NO Concentrations for Emergency Operation ($\mu\text{g}/\text{m}^3$) Lon02 and Lon03

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R1_1	1.5	2837	19.8	2857	64.9
R1_2	3.5	2850	19.8	2869	65.2
R1_3	6.5	2885	19.8	2905	66.0
R2	1.5	3181	19.8	3201	72.8
R3	1.5	2430	19.8	2450	55.7
R4	1.5	662	19.8	682	15.5
R5	1.5	907	19.8	927	21.1
R6	1.5	1471	19.8	1490	33.9
R7	1.5	1380	19.8	1400	31.8
R8	1.5	1093	19.8	1113	25.3
R9	1.5	1423	19.8	1443	32.8
R10	1.5	1180	19.8	1199	27.3
R11	1.5	1011	19.8	1030	23.4
R12	1.5	621	19.8	641	14.6
R13	1.5	829	19.8	848	19.3
R14	1.5	913	19.8	933	21.2
R15	1.5	917	19.8	937	21.3
R16	1.5	943	19.8	963	21.9
R17	1.5	791	19.8	811	18.4

Table 9: Predicted 100th percentile NO Concentrations for Emergency Operation ($\mu\text{g}/\text{m}^3$) Lon02 and Lon03

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R18	1.5	590	19.8	610	13.9
R19	1.5	2346	19.8	2366	53.8
AR1	1.5	3023	19.8	3043	69.2
AR2	1.5	3238	19.8	3258	74.0
AR3	1.5	2343	19.8	2363	53.7
AR4	1.5	2257	19.8	2277	51.8
AR5	1.5	2351	19.8	2371	53.9
AR6	1.5	2342	19.8	2362	53.7
AR7	1.5	2403	19.8	2423	55.1
AR8	1.5	2479	19.8	2499	56.8
AR9	1.5	2455	19.8	2475	56.2
AR10	1.5	2339	19.8	2358	53.6
AR11	1.5	2336	19.8	2356	53.5
AR12	1.5	2398	19.8	2418	55.0
AR13	1.5	2463	19.8	2483	56.4
AR14	1.5	2528	19.8	2548	57.9
AR15	1.5	2458	19.8	2477	56.3
AR16	1.5	2435	19.8	2455	55.8
AR17	1.5	2308	19.8	2328	52.9
AR18	1.5	2492	19.8	2512	57.1
AR19	1.5	2331	19.8	2351	53.4
AR20	1.5	2356	19.8	2376	54.0
AR21	1.5	2152	19.8	2172	49.4
AR22	1.5	2279	19.8	2299	52.3
AR23	1.5	2029	19.8	2049	46.6
AR24	1.5	2182	19.8	2202	50.0
AR25	1.5	2564	19.8	2584	58.7
AR26	1.5	2493	19.8	2512	57.1
AR27	1.5	2253	19.8	2273	51.7
AR28	1.5	2402	19.8	2421	55.0
AR29	1.5	2092	19.8	2112	48.0
AR30	1.5	2150	19.8	2170	49.3

Table 9: Predicted 100th percentile NO Concentrations for Emergency Operation ($\mu\text{g}/\text{m}^3$) Lon02 and Lon03

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR31	1.5	2215	19.8	2235	50.8
AR32	1.5	1664	19.8	1684	38.3
AR33	1.5	1466	19.8	1486	33.8

Lon-3 North Testing Scenario Results

Table 10: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon03 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R1_1	1.5	79.0	19.8	98.8	2.2
R1_2	3.5	78.9	19.8	98.7	2.2
R1_3	6.5	79.0	19.8	98.8	2.2
R2	1.5	73.1	19.8	92.9	2.1
R3	1.5	126.1	19.8	145.9	3.3
R4	1.5	26.0	19.8	45.8	1.0
R5	1.5	36.7	19.8	56.5	1.3
R6	1.5	79.6	19.8	99.4	2.3
R7	1.5	73.7	19.8	93.5	2.1
R8	1.5	56.0	19.8	75.8	1.7
R9	1.5	95.1	19.8	114.9	2.6
R10	1.5	88.5	19.8	108.3	2.5
R11	1.5	37.9	19.8	57.7	1.3
R12	1.5	43.0	19.8	62.8	1.4
R13	1.5	62.2	19.8	82.0	1.9
R14	1.5	58.2	19.8	78.0	1.8
R15	1.5	63.1	19.8	82.9	1.9
R16	1.5	45.0	19.8	64.8	1.5
R17	1.5	29.2	19.8	49.0	1.1
R18	1.5	31.5	19.8	51.3	1.2
R19	1.5	57.3	19.8	77.1	1.8
AR1	1.5	200.2	19.8	220.0	5.0
AR2	1.5	183.5	19.8	203.3	4.6
AR3	1.5	305.1	19.8	324.9	7.4

Table 10: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon03 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR4	1.5	138.9	19.8	158.7	3.6
AR5	1.5	138.3	19.8	158.1	3.6
AR6	1.5	141.0	19.8	160.8	3.7
AR7	1.5	141.7	19.8	161.5	3.7
AR8	1.5	305.1	19.8	324.9	7.4
AR9	1.5	305.1	19.8	324.9	7.4
AR10	1.5	136.7	19.8	156.5	3.6
AR11	1.5	136.0	19.8	155.8	3.5
AR12	1.5	139.1	19.8	158.9	3.6
AR13	1.5	140.5	19.8	160.3	3.6
AR14	1.5	304.2	19.8	324.0	7.4
AR15	1.5	305.1	19.8	324.9	7.4
AR16	1.5	137.8	19.8	157.6	3.6
AR17	1.5	136.1	19.8	155.9	3.5
AR18	1.5	139.4	19.8	159.2	3.6
AR19	1.5	134.8	19.8	154.6	3.5
AR20	1.5	133.6	19.8	153.4	3.5
AR21	1.5	133.5	19.8	153.3	3.5
AR22	1.5	130.1	19.8	149.9	3.4
AR23	1.5	131.2	19.8	151.0	3.4
AR24	1.5	127.6	19.8	147.4	3.4
AR25	1.5	137.9	19.8	157.7	3.6
AR26	1.5	137.5	19.8	157.3	3.6
AR27	1.5	139.1	19.8	158.9	3.6
AR28	1.5	122.4	19.8	142.2	3.2
AR29	1.5	126.4	19.8	146.2	3.3
AR30	1.5	139.6	19.8	159.4	3.6
AR31	1.5	136.0	19.8	155.8	3.5
AR32	1.5	132.0	19.8	151.8	3.5
AR33	1.5	116.1	19.8	135.9	3.1

Lon-3 South Testing Scenario Results

Table 11: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon03 South

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R1_1	1.5	77.8	19.8	97.6	2.2
R1_2	3.5	77.7	19.8	97.5	2.2
R1_3	6.5	77.3	19.8	97.1	2.2
R2	1.5	75.4	19.8	95.2	2.2
R3	1.5	130.2	19.8	150.0	3.4
R4	1.5	25.3	19.8	45.1	1.0
R5	1.5	47.8	19.8	67.6	1.5
R6	1.5	65.9	19.8	85.7	1.9
R7	1.5	63.5	19.8	83.3	1.9
R8	1.5	47.1	19.8	66.9	1.5
R9	1.5	70.3	19.8	90.1	2.0
R10	1.5	58.5	19.8	78.3	1.8
R11	1.5	30.1	19.8	49.9	1.1
R12	1.5	28.6	19.8	48.4	1.1
R13	1.5	45.3	19.8	65.1	1.5
R14	1.5	40.7	19.8	60.5	1.4
R15	1.5	52.3	19.8	72.1	1.6
R16	1.5	47.4	19.8	67.2	1.5
R17	1.5	36.4	19.8	56.2	1.3
R18	1.5	23.2	19.8	43.0	1.0
R19	1.5	49.7	19.8	69.5	1.6
AR1	1.5	177.6	19.8	197.4	4.5
AR2	1.5	165.4	19.8	185.2	4.2
AR3	1.5	141.3	19.8	161.1	3.7
AR4	1.5	139.9	19.8	159.7	3.6
AR5	1.5	139.8	19.8	159.6	3.6
AR6	1.5	139.7	19.8	159.5	3.6
AR7	1.5	140.0	19.8	159.8	3.6
AR8	1.5	138.8	19.8	158.6	3.6
AR9	1.5	141.0	19.8	160.8	3.7
AR10	1.5	138.5	19.8	158.3	3.6
AR11	1.5	137.7	19.8	157.5	3.6

Table 11: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon03 South

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR12	1.5	137.5	19.8	157.3	3.6
AR13	1.5	137.2	19.8	157.0	3.6
AR14	1.5	137.2	19.8	157.0	3.6
AR15	1.5	139.3	19.8	159.1	3.6
AR16	1.5	136.4	19.8	156.2	3.5
AR17	1.5	135.9	19.8	155.7	3.5
AR18	1.5	135.9	19.8	155.7	3.5
AR19	1.5	136.3	19.8	156.1	3.5
AR20	1.5	135.4	19.8	155.2	3.5
AR21	1.5	134.6	19.8	154.4	3.5
AR22	1.5	136.6	19.8	156.4	3.6
AR23	1.5	127.3	19.8	147.1	3.3
AR24	1.5	131.0	19.8	150.8	3.4
AR25	1.5	135.3	19.8	155.1	3.5
AR26	1.5	136.6	19.8	156.4	3.6
AR27	1.5	133.2	19.8	153.0	3.5
AR28	1.5	130.5	19.8	150.3	3.4
AR29	1.5	132.1	19.8	151.9	3.5
AR30	1.5	132.3	19.8	152.1	3.5
AR31	1.5	136.2	19.8	156.0	3.5
AR32	1.5	84.4	19.8	104.2	2.4
AR33	1.5	81.0	19.8	100.8	2.3

Lon-3 and Lon-2 North Testing Scenario Results

Table 12: Predicted 100th percentile NO Concentrations for Testing Lon3 and Lon2 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R1_1	1.5	196.2	19.8	216.0	4.9
R1_2	3.5	196.8	19.8	216.6	4.9
R1_3	6.5	198.3	19.8	218.1	5.0
R2	1.5	213.8	19.8	233.6	5.3
R3	1.5	213.9	19.8	233.7	5.3

Table 12: Predicted 100th percentile NO Concentrations for Testing Lon3 and Lon2 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R4	1.5	52.1	19.8	71.9	1.6
R5	1.5	63.9	19.8	83.7	1.9
R6	1.5	108.0	19.8	127.8	2.9
R7	1.5	101.4	19.8	121.2	2.8
R8	1.5	81.0	19.8	100.8	2.3
R9	1.5	105.9	19.8	125.7	2.9
R10	1.5	104.4	19.8	124.2	2.8
R11	1.5	59.6	19.8	79.4	1.8
R12	1.5	53.1	19.8	72.9	1.7
R13	1.5	85.5	19.8	105.3	2.4
R14	1.5	67.8	19.8	87.6	2.0
R15	1.5	65.5	19.8	85.3	1.9
R16	1.5	78.8	19.8	98.6	2.2
R17	1.5	59.4	19.8	79.2	1.8
R18	1.5	62.8	19.8	82.6	1.9
R19	1.5	143.5	19.8	163.3	3.7
AR1	1.5	267.1	19.8	286.9	6.5
AR2	1.5	279.6	19.8	299.4	6.8
AR3	1.5	305.1	19.8	324.9	7.4
AR4	1.5	153.3	19.8	173.1	3.9
AR5	1.5	155.8	19.8	175.6	4.0
AR6	1.5	176.4	19.8	196.2	4.5
AR7	1.5	184.6	19.8	204.4	4.6
AR8	1.5	305.1	19.8	324.9	7.4
AR9	1.5	305.1	19.8	324.9	7.4
AR10	1.5	151.1	19.8	170.9	3.9
AR11	1.5	153.6	19.8	173.4	3.9
AR12	1.5	177.2	19.8	197.0	4.5
AR13	1.5	183.1	19.8	202.9	4.6
AR14	1.5	232.6	19.8	252.4	5.7
AR15	1.5	233.3	19.8	253.1	5.8
AR16	1.5	177.2	19.8	197.0	4.5

Table 12: Predicted 100th percentile NO Concentrations for Testing Lon3 and Lon2 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR17	1.5	177.6	19.8	197.4	4.5
AR18	1.5	182.7	19.8	202.5	4.6
AR19	1.5	151.2	19.8	171.0	3.9
AR20	1.5	152.7	19.8	172.5	3.9
AR21	1.5	123.4	19.8	143.2	3.3
AR22	1.5	117.9	19.8	137.7	3.1
AR23	1.5	227.0	19.8	246.8	5.6
AR24	1.5	197.5	19.8	217.3	4.9
AR25	1.5	201.9	19.8	221.7	5.0
AR26	1.5	196.5	19.8	216.3	4.9
AR27	1.5	170.6	19.8	190.4	4.3
AR28	1.5	180.5	19.8	200.3	4.6
AR29	1.5	194.3	19.8	214.1	4.9
AR30	1.5	196.8	19.8	216.6	4.9
AR31	1.5	197.0	19.8	216.8	4.9
AR32	1.5	147.1	19.8	166.9	3.8
AR33	1.5	126.4	19.8	146.2	3.3

Lon-3 and Lon-2 South Testing Scenario Results

Table 13: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon3 and Lon2 South

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R1_1	1.5	237.5	19.8	257.3	5.8
R1_2	3.5	238.3	19.8	258.1	5.9
R1_3	6.5	240.6	19.8	260.4	5.9
R2	1.5	215.8	19.8	235.6	5.4
R3	1.5	247.2	19.8	267.0	6.1
R4	1.5	51.0	19.8	70.8	1.6
R5	1.5	64.0	19.8	83.8	1.9
R6	1.5	102.9	19.8	122.7	2.8
R7	1.5	97.9	19.8	117.7	2.7
R8	1.5	76.5	19.8	96.3	2.2

Table 13: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon3 and Lon2 South

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R9	1.5	94.4	19.8	114.2	2.6
R10	1.5	84.1	19.8	103.9	2.4
R11	1.5	53.6	19.8	73.4	1.7
R12	1.5	44.3	19.8	64.1	1.5
R13	1.5	83.8	19.8	103.6	2.4
R14	1.5	56.9	19.8	76.7	1.7
R15	1.5	57.4	19.8	77.2	1.8
R16	1.5	70.3	19.8	90.1	2.0
R17	1.5	50.9	19.8	70.7	1.6
R18	1.5	43.6	19.8	63.4	1.4
R19	1.5	149.0	19.8	168.8	3.8
AR1	1.5	211.4	19.8	231.2	5.3
AR2	1.5	206.2	19.8	226.0	5.1
AR3	1.5	159.1	19.8	178.9	4.1
AR4	1.5	193.9	19.8	213.7	4.9
AR5	1.5	190.7	19.8	210.5	4.8
AR6	1.5	185.0	19.8	204.8	4.7
AR7	1.5	213.9	19.8	233.7	5.3
AR8	1.5	208.4	19.8	228.2	5.2
AR9	1.5	200.9	19.8	220.7	5.0
AR10	1.5	192.9	19.8	212.7	4.8
AR11	1.5	189.0	19.8	208.8	4.7
AR12	1.5	179.7	19.8	199.5	4.5
AR13	1.5	213.4	19.8	233.2	5.3
AR14	1.5	158.2	19.8	178.0	4.0
AR15	1.5	120.1	19.8	139.9	3.2
AR16	1.5	215.3	19.8	235.1	5.3
AR17	1.5	216.0	19.8	235.8	5.4
AR18	1.5	213.1	19.8	232.9	5.3
AR19	1.5	190.7	19.8	210.5	4.8
AR20	1.5	187.5	19.8	207.3	4.7
AR21	1.5	149.2	19.8	169.0	3.8

Table 13: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon3 and Lon2 South

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR22	1.5	142.0	19.8	161.8	3.7
AR23	1.5	206.4	19.8	226.2	5.1
AR24	1.5	213.2	19.8	233.0	5.3
AR25	1.5	206.2	19.8	226.0	5.1
AR26	1.5	155.0	19.8	174.8	4.0
AR27	1.5	123.9	19.8	143.7	3.3
AR28	1.5	178.9	19.8	198.7	4.5
AR29	1.5	192.8	19.8	212.6	4.8
AR30	1.5	153.1	19.8	172.9	3.9
AR31	1.5	149.6	19.8	169.4	3.8
AR32	1.5	97.3	19.8	117.1	2.7
AR33	1.5	86.4	19.8	106.2	2.4

Lon-3 Admin generator and Lon-2 North Testing Scenario Results

Table 14: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon3 Admin and Lon2 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R1_1	1.5	147.8	19.8	167.6	3.8
R1_2	3.5	148.4	19.8	168.2	3.8
R1_3	6.5	150.0	19.8	169.8	3.9
R2	1.5	179.2	19.8	199.0	4.5
R3	1.5	181.3	19.8	201.1	4.6
R4	1.5	30.7	19.8	50.5	1.1
R5	1.5	36.9	19.8	56.7	1.3
R6	1.5	62.9	19.8	82.7	1.9
R7	1.5	62.4	19.8	82.2	1.9
R8	1.5	52.4	19.8	72.2	1.6
R9	1.5	60.9	19.8	80.7	1.8
R10	1.5	58.2	19.8	78.0	1.8
R11	1.5	33.1	19.8	52.9	1.2
R12	1.5	28.0	19.8	47.8	1.1
R13	1.5	54.1	19.8	73.9	1.7

Table 14: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon3 Admin and Lon2 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
R14	1.5	53.8	19.8	73.6	1.7
R15	1.5	49.8	19.8	69.6	1.6
R16	1.5	49.6	19.8	69.4	1.6
R17	1.5	37.1	19.8	56.9	1.3
R18	1.5	36.6	19.8	56.4	1.3
R19	1.5	98.1	19.8	117.9	2.7
AR1	1.5	233.3	19.8	253.1	5.8
AR2	1.5	307.7	19.8	327.5	7.4
AR3	1.5	896.3	19.8	916.1	20.8
AR4	1.5	312.7	19.8	332.5	7.6
AR5	1.5	496.8	19.8	516.6	11.7
AR6	1.5	496.8	19.8	516.6	11.7
AR7	1.5	496.8	19.8	516.6	11.7
AR8	1.5	896.3	19.8	916.1	20.8
AR9	1.5	896.3	19.8	916.1	20.8
AR10	1.5	312.7	19.8	332.5	7.6
AR11	1.5	496.8	19.8	516.6	11.7
AR12	1.5	496.8	19.8	516.6	11.7
AR13	1.5	496.8	19.8	516.6	11.7
AR14	1.5	896.3	19.8	916.1	20.8
AR15	1.5	896.3	19.8	916.1	20.8
AR16	1.5	496.8	19.8	516.6	11.7
AR17	1.5	458.0	19.8	477.8	10.9
AR18	1.5	496.8	19.8	516.6	11.7
AR19	1.5	312.7	19.8	332.5	7.6
AR20	1.5	496.8	19.8	516.6	11.7
AR21	1.5	312.4	19.8	332.2	7.6
AR22	1.5	495.1	19.8	514.9	11.7
AR23	1.5	346.2	19.8	366.0	8.3
AR24	1.5	328.7	19.8	348.5	7.9
AR25	1.5	496.8	19.8	516.6	11.7
AR26	1.5	496.8	19.8	516.6	11.7

Table 14: Predicted 100th percentile NO Concentrations for Testing ($\mu\text{g}/\text{m}^3$) Lon3 Admin and Lon2 North

Receptor	Height (m)	100 th Percentile NO PC ($\mu\text{g}/\text{m}^3$)	Background NO	PEC NO ($\mu\text{g}/\text{m}^3$)	PEC % EAL
AR27	1.5	370.9	19.8	390.7	8.9
AR28	1.5	163.8	19.8	183.6	4.2
AR29	1.5	173.4	19.8	193.2	4.4
AR30	1.5	180.0	19.8	199.8	4.5
AR31	1.5	189.9	19.8	209.7	4.8
AR32	1.5	72.3	19.8	92.1	2.1
AR33	1.5	69.2	19.8	89.0	2.0