

Stag Brewery Enlarged Scheme

Technical Note - Air Quality Review of Chalkers Corner Junction Options

Date: 10 July 2020

Client Name: Reselton Properties Ltd

Document Reference: WIE15582-104-TN-1.4.1_AQ

This document has been prepared and checked in accordance with Waterman Group's IMS (BS EN ISO 9001: 2015, BS EN ISO 14001: 2015 and BS EN ISO 45001:2018)

Issue	Prepared by	Checked & Approved by
02	Chris Brownlie Principal Consultant	Stephen Brindle Associate Director



1. Introduction

- 1.1. Following the resolution to refuse Application C (Highways improvements at Chalkers Corner) by London Borough of Richmond upon Thames (LBRuT) in January 2020 (planning ref: 18/0549/FUL), alternative highway design mitigation has been investigated by the project team. It is proposed that highways mitigation for the traffic impacts are anticipated to now be carried out within the adopted highway, which will not require separate planning permission. If it is agreed that all works are within adopted highway, then Application C may be withdrawn. The final details of the proposed highway works would be secured with TfL and LBRuT/GLA.
- 1.2. Stantec, the transport engineers for the Stag Brewery Development, have provided forecast traffic data for the 'Stag Brewery Enlarged Scheme' and four options for the Chalkers Corner Junction:
 - Option 1: 'Do Nothing' – no change from the existing junction (refer to drawing 38262-5514-020);
 - Option 2: 'Chalkers Corner 'Light' Scheme' (new left-hand lane westbound on Lower Richmond Road) (refer to drawing 38262-5514-021);
 - Option 3: 'Lower Richmond Road Bus Lane' Option 1 but with a dedicated bus lane westbound on Lower Richmond Road (refer to drawing 38262-5514-022); and
 - Option 4: 'Chalkers Corner 'Light' & Bus Lane' Option 2 but with a dedicated bus lane westbound on Lower Richmond Road (refer to drawing 38262-5514-023).
 - Option 5: 'Application C' (the original proposals at Chalkers Corner).
- 1.3. This technical note presents additional detailed modelling of the five Chalkers Corner reconfiguration options for the with Development scenario. The Technical Note presents a comparison of scenarios which are not presented in the 2018 ES (as amended), to determine the

impact of the junction highway works on air quality in isolation and therefore determine the significance of effect of the highways works in isolation. It is noted that the scenarios assessed here are hypothetical only as the Chalkers Corner Junction highways works forms part of the wider Stag Brewery Development and would not be implemented in isolation. Given that the Chalkers Corner Junction is located in the Air Quality Focus Area (AQFA), which is designated due to exceedences of the NO₂ objective, this assessment has only focussed on NO₂.

- 1.4. It is noted that the assessment of Chalkers Corner will still need to be incorporated within the 2018 ES (as amended) as it forms part of the mitigation of the scheme, although the reconfiguration will be referred to as 'indicative'.

2. Air Quality Modelling

- 2.1. The same general methodology has been undertaken with regards to this air quality assessment as the air quality modelling completed for the air quality assessment presented in **Chapter 10: Air Quality** of the 2018 ES (as amended) and the technical details set out in **Appendix 10.1** of the 2018 ES (as amended) as part of the planning application for brevity this is not replicated within the technical note.

Model Scenarios

- 2.2. To assess the effect of the junction on local air quality the following traffic data scenarios have been provided:
 - 2027 Baseline (no Development and no highways works) - traffic data for the assessment year 2027, the data excludes any traffic flows relating to the Development and no highways works to the Chalkers Corner Junction;
 - 2027 Option 1: 'Do Nothing' (with Development and no highways works) - traffic data for the assessment year 2027, the data includes any traffic flows relating to the Development at the time of opening in 2027 but does not include the highways works to the Chalkers Corner Junction;
 - 2027 Option 2: 'Chalkers Corner 'Light' Scheme' (with Development and with Chalkers Corner 'light' highways works) - traffic data for the assessment year 2027, the data includes any traffic flows relating to the Development at the time of opening in 2027 and the highways works to the Chalkers Corner Junction
 - 2027 Option 3: 'Lower Richmond Road Bus Lane' (with Development and with Bus Lane along Lower Richmond Road) - traffic data for the assessment year 2027, the data includes any traffic flows relating to the Development at the time of opening in 2027 and the Bus Lane along Lower Richmond Road; and
 - 2027 Option 4: 'Chalkers Corner 'Light' & Bus Lane' (with Development and with Chalkers Corner 'light' highways works and Bus Lane along Lower Richmond Road) - traffic data for the assessment year 2027, the data includes any traffic flows relating to the Development at the time of opening in 2027 and the highways works to the Chalkers Corner Junction and the Bus Lane along Lower Richmond Road.
 - 2027 Option 5: 'Application C' (with Development and with Chalkers Corner highways works as per the original proposals) - traffic data for the assessment year 2027, the data includes any

traffic flows relating to the Development at the time of opening in 2027 and the highways works to the Chalkers Corner Junction.

- 2.3. The above options have been assessed using NO_x emissions data obtained from the Air Quality Consultants Ltd Calculator Using Realistic Emissions for Diesels (CURED) spreadsheet¹ for the year 2027. This spreadsheet has been designed to provide a reasonable worst-case assumption for future vehicle emissions.
- 2.4. Given that the highways works and the Development are to be completed in 2027, it is very likely that concentrations will be lower than those considered in this air quality assessment, as Euro 6 emissions standards will have fully been implemented by then and there is an expected increase in electric vehicles. However, the CURED methodology ensures the results presented in this Technical Note are conservative.
- 2.5. This Technical Note presents a comparison of the following scenarios:

Option 1: Do Nothing

- **Scenario 1.1:** 2027 Baseline compared against 2027 'with Development but without highway works to Chalkers Corner Junction'. This scenario shows the impact of the Development on the existing Chalkers Corner Junction layout.

Option 2: Chalkers Corner Light Scheme (new left-hand lane westbound on Lower Richmond Road)

- **Scenario 2.1:** 2027 Baseline compared against 2027 'with Development and with Chalkers Corner 'light' highways works'. This scenario is presented to show the change in concentrations resulting from the Development and the highway works together and is the scenario that would be considered in the 2018 ES (as amended).
- **Scenario 2.2:** 2027 'with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with highway works to Chalkers Corner Junction'. This scenario shows the change in pollutant concentrations resulting from the highway works to Chalkers Corner Junction alone assuming the Development is already in place.

Option 3: Option 1 but with a dedicated bus lane westbound on Lower Richmond Road

- **Scenario 3.1:** 2027 Baseline compared against 2027 'with Development and with Development and with Bus Lane along Lower Richmond Road'. This scenario is presented to show the change in concentrations resulting from the Development and the highway works together and is the scenario that would be considered in the 2018 ES (as amended).
- **Scenario 3.2:** 2027 'with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with Bus Lane along Lower Richmond Road'. This scenario shows the change in pollutant concentrations resulting from the highway works to Chalkers Corner Junction alone assuming the Development is already in place.

¹ Air Quality Consultants Ltd (2017) Calculator Using Realistic Emissions for Diesels (CURED) Spreadsheet. CURED V3A December 2017.

Option 4: Option 2 but with a dedicated bus lane westbound on Lower Richmond Road

- **Scenario 4.1:** 2027 Baseline compared against 2027 'with Development and with Chalkers Corner 'light' highways works and Bus Lane along Lower Richmond Road'. This scenario is presented to show the change in concentrations resulting from the Development and the highway works together and is the scenario that would be considered in the 2018 ES (as amended).
- **Scenario 4.2:** 2027 'with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with Chalkers Corner 'light' highways works and Bus Lane along Lower Richmond Road'. This scenario shows the change in pollutant concentrations resulting from the highway works to Chalkers Corner Junction alone assuming the Development is already in place.

Option 5: Application C (new left-hand lane westbound on Lower Richmond Road)

- **Scenario 5.1:** 2027 Baseline compared against 2027 'with Development and with Application C'. This scenario is presented to show the change in concentrations resulting from the Development and the highway works together and is the scenario that would be considered in the 2018 ES (as amended).
- **Scenario 5.2:** 2027 'with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with Application C'. This scenario shows the change in pollutant concentrations resulting from the highway works to Chalkers Corner Junction alone assuming the Development is already in place.

Results of the Modelling

Option 1

Scenario 1.1: 2027 Baseline compared against 2027 'with Development but without highway works to Chalkers Corner Junction'

- 2.6. In 2027, without any changes to the Chalkers Corner Junction but taking account of transport trips associated with the Development, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.7. As shown in **Table A1** of **Annex A**, in Scenario 1.1, all modelled receptors experience an increase in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentration ranges between 0.13µg/m³ and 0.91µg/m³. The greatest increase of 0.91µg/m³ is at Receptors J180 (located on A3033 Lower Richmond Road). The maximum increase in Chertsey Court is 0.45µg/m³ located at Receptors J55. There are no predicted reductions in annual mean NO₂ in this Scenario.
- 2.8. Using the impact descriptors set out in the EPUK/IAQM guidance the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Option 2

Scenario 2.1: 2027 Baseline compared against 2027 'with Development and with Chalkers Corner 'light' highways works'

- 2.9. In 2027, with Chalkers Corner 'light' highways works and taking account of transport trips associated with the Development, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.10. As shown in **Table A2 of Annex A**, in Scenario 1B, 176 of the 180 modelled receptors experience an increase in annual mean NO₂ concentrations, the remaining 4 experience a decrease in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentrations range between 0.13µg/m³ and 0.94µg/m³. The greatest increase of 0.94µg/m³ is at Receptor J20 (located at the ground floor on A3033 Lower Richmond Road). The maximum increase in Chertsey Court is 0.45µg/m³ located at Receptor J55. The greatest decrease in concentrations is 0.13µg/m³ is at Receptor J175 (located at the ground floor on A3033 Lower Richmond Road), these decreases are a result of the decrease in queue lengths in the peak hours as a result of the change to the junction.
- 2.11. Using the impact descriptors set out in the EPUK/IAQM guidance the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Scenario 2.2: 2027 with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with highway works to Chalkers Corner Junction

- 2.12. In 2027, considering the Chalkers Corner 'light' highways works in isolation, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.13. As shown in **Table A3 of Annex A**, in Scenario 2.2, 16 of the 180 modelled receptors experience an increase in annual mean NO₂ concentrations, and 111 of the 180 modelled receptors experience a decrease in annual mean NO₂ concentrations, the remaining 53 experience no change in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentration ranges between 0.01µg/m³ and 0.48µg/m³. The greatest increase of 0.48µg/m³ is at Receptor J20 (located at the ground floor on A3033 Lower Richmond Road). There are no increases at Chertsey Court. The greatest decrease in concentrations is 0.83µg/m³ is at Receptor J176 (located at the ground floor on A3033 Lower Richmond Road), these decreases are a result of the decrease in queue lengths in the peak hours as a result of the change to the junction.
- 2.14. Using the impact descriptors set out in the EPUK/IAQM guidance the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Option 3

Scenario 3.1: 2027 Baseline compared against 2027 'with Development and with Development and with Bus Lane along Lower Richmond Road'

- 2.15. In 2027, with Bus Lane along Lower Richmond Road' and taking account of transport trips associated with the Development, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.16. As shown in **Table A4 of Annex A**, in Scenario 3.1, all modelled receptors experience an increase in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentrations range between 0.12µg/m³ and 0.95µg/m³. The greatest increase of 0.95µg/m³ is at located at J180 (the ground floor on A3033 Lower Richmond Road) this increase is due to the increased traffic queues that result from the inclusion of the bus lane and the additional traffic associated with the Development.
- 2.17. Using the impact descriptors set out in the EPUK/IAQM guidance the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Scenario 3.2: 2027 'with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with Bus Lane along Lower Richmond Road'

- 2.18. In 2027, considering the Bus Lane along Lower Richmond Road in isolation, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.19. As shown in **Table A5 of Annex A**, in Scenario 3.2, 71 of the 180 modelled receptors experience an increase in annual mean NO₂ concentrations, and 37 of the 180 modelled receptors experience a decrease in annual mean NO₂ concentrations, the remaining 72 experience no change in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentration ranges between 0.01µg/m³ and 0.12µg/m³. The greatest increase of 0.12µg/m³ is at Receptor J56 at Chertsey Court. The greatest decrease in concentrations is 0.56µg/m³ is at Receptor J176 (located at the ground floor on A3033 Lower Richmond Road), these decreases are a result of the inclusion of a bus lane moving traffic away from those receptors along the south of the A3003 Lower Richmond Road.
- 2.20. Using the impact descriptors set out in the EPUK/IAQM guidance, the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Option 4

Scenario 4.1: 2027 Baseline compared against 2027 'with Development and with Chalkers Corner 'light' highways works and Bus Lane along Lower Richmond Road'

- 2.21. In 2027, with Chalkers Corner 'light' highways works and Bus Lane along Lower Richmond Road and taking account of transport trips associated with the Development, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.22. As shown in **Table A6 of Annex A**, in Scenario 4.1, all modelled receptors experience an increase in annual mean NO₂ concentrations. all modelled receptors experience an increase in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentrations range between 0.12µg/m³ and 0.95µg/m³. The greatest increase of 0.95µg/m³ is at located at J180 (the ground floor on A3033 Lower Richmond Road) this increase is due to the increased traffic queues that result from the inclusion of the bus lane and the additional traffic associated with the Development.
- 2.23. Using the impact descriptors set out in the EPUK/IAQM guidance the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Scenario 4.2: 2027 'with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with Chalkers Corner 'light' highways works and Bus Lane along Lower Richmond Road'

- 2.24. In 2027, considering the Chalkers Corner 'light' highways works and Bus Lane along Lower Richmond Road in isolation, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.25. As shown in **Table A7 of Annex A**, in Scenario 4.2, 71 of the 180 modelled receptors experience an increase in annual mean NO₂ concentrations, and 37 of the 180 modelled receptors experience a decrease in annual mean NO₂ concentrations, the remaining 72 experience no change in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentration ranges between 0.01µg/m³ and 0.12µg/m³. The greatest increase of 0.12µg/m³ is at Receptor J56 at Chertsey Court. The greatest decrease in concentrations is 0.56µg/m³ is at Receptor J176 (located at the ground floor on A3033 Lower Richmond Road), these decreases are a result of the inclusion of a bus lane moving traffic away from those receptors along the south of the A3003 Lower Richmond Road.
- 2.26. Using the impact descriptors set out in the EPUK/IAQM guidance, the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Option 5

Scenario 5.1: 2027 Baseline compared against 2027 'with Development and with Application C'

- 2.27. In 2027, with Application C and taking account of transport trips associated with the Development, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.28. As shown in **Table A8 of Annex A**, in Scenario 5.1, 168 of the 180 modelled receptors experience an increase in annual mean NO₂ concentrations, and the remaining 12 of the 180 modelled receptors experience a decrease in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentration ranges between 0.03µg/m³ and 0.81µg/m³. The greatest increase of 0.81µg/m³ is at Receptor J180 (located at the ground floor on A3033 Lower Richmond Road). The greatest decrease in concentrations is 1.76µg/m³ is at Receptor J21 (located at the ground floor on A3033 Lower Richmond Road), these decreases are a result of the realignment of A3033 Lower Richmond Road at the Chalkers Corner Junction.
- 2.29. Using the impact descriptors set out in the EPUK/IAQM guidance, the Development is considered to result in a 'negligible' impact at all receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Scenario 5.2: 2027 'with Development but without highway works to Chalkers Corner Junction' compared against 2027 'with Development and with Application C'

- 2.30. In 2027, considering Application C in isolation, no residential receptors exceed the annual mean NO₂ AQS objective of 40µg/m³.
- 2.31. As shown in **Table A9 of Annex A**, in Scenario 5.2, 78 of the 180 modelled receptors experience an increase in annual mean NO₂ concentrations, and 59 of the 180 modelled receptors experience a decrease in annual mean NO₂ concentrations, the remaining 43 experience no change in annual mean NO₂ concentrations. The increase in annual mean NO₂ concentration ranges between 0.01µg/m³ and 0.32µg/m³. The greatest increase of 0.32µg/m³ is at Receptor J60 at Chertsey Court. The greatest decrease in concentrations is 2.28µg/m³ is at Receptor J21 (located at the ground floor on A3033 Lower Richmond Road), these decreases are a result of the realignment of A3033 Lower Richmond Road at the Chalkers Corner Junction.
- 2.32. Using the impact descriptors set out in the EPUK/IAQM guidance, the Development is considered to result in a 'slight beneficial' impact at 2 receptor locations (Receptors 16 and 21) and a 'negligible' impact the remaining 178 receptor locations. Using professional judgement, the effect of the Development is considered to be not significant and no further mitigation measures would be required.

Comparison of the Junction Options

- 2.33. A summary of the four junction options is presented below in Table 1.

Table 1: Summary of Junction Options

Junction Option	No. of Receptors experiencing an increase in concentrations	No. of Receptors experiencing no change in concentrations	No. of Receptors experiencing a decrease in concentrations
Option 1	180	-	-
Option 2, Scenario 2.1	176	-	4
Option 2, Scenario 2.2	16	53	111
Option 3, Scenario 3.1	180	-	-
Option 3, Scenario 3.2	71	72	32
Option 4, Scenario 4.1	180	-	-
Option 4, Scenario 4.2	71	72	32
Option 5, Scenario 5.1	168	-	12
Option 5, Scenario 5.2	78	43	59

2.34. None of the proposed junction options have a significant effect on air quality. However, based on the change in concentrations at the receptor locations modelled it is considered that the preferred option for the Chalkers Corner junction, in terms of air quality, is Option 2.

Summary

2.35. The ADMS Roads modelling of the junction reconfiguration, both the junction changes and the Development traffic do not result in any new exceedances of the annual mean NO₂ objective and result in negligible impacts on NO₂ concentrations. The effect of the junction reconfiguration and the Development traffic on NO₂ concentrations are considered to be not significant. Based on the change in concentrations at the receptor locations modelled it is considered that the preferred option for the Chalkers Corner junction, in terms of air quality is Option 2.

ANNEX A: AIR QUALITY MODELLING RESULTS

This Annex presents the results for all receptors considered within the air quality assessment.

Table A1: Option 1, Scenario 1.1

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J1	179 Lower Richmond Road	30.9	31.2	0.23
J2	179 Lower Richmond Road	29.2	29.4	0.21
J3	179 Lower Richmond Road	25.6	25.8	0.17
J4	179 Lower Richmond Road	22.5	22.7	0.13
J5	189 Lower Richmond Road	28.7	28.9	0.21
J6	2 South Circular	31.2	31.3	0.17
J7	2a South Circular	28.8	29.0	0.17
J8	4 South Circular	31.4	31.5	0.17
J9	4a South Circular	28.7	28.8	0.16
J10	6 South Circular	29.4	29.6	0.15
J11	8 South Circular	29.4	29.6	0.15
J12	67 Shalstone Road	30.3	30.5	0.19
J13	1 Lower Richmond Road	36.3	36.6	0.30
J14	2 Lower Richmond Road	35.3	35.6	0.31
J15	3 Lower Richmond Road	32.9	33.2	0.30
J16	4 Lower Richmond Road	31.3	31.6	0.31
J17	5 Lower Richmond Road	30.3	30.6	0.32
J18	6 Lower Richmond Road	29.7	30.0	0.36
J19	7 Lower Richmond Road	29.1	29.5	0.39
J20	8 Lower Richmond Road	29.5	29.9	0.46
J21	9 Lower Richmond Road	29.6	30.2	0.52
J22	10 Lower Richmond Road	30.0	30.6	0.56
J23	11 Lower Richmond Road	30.0	30.6	0.60
J24	12 Lower Richmond Road	30.5	31.1	0.63
J25	13 Lower Richmond Road	29.6	30.1	0.60
J26	14 Lower Richmond Road	30.0	30.6	0.62
J27	15 Lower Richmond Road	29.7	30.3	0.63
J28	16 Lower Richmond Road	29.4	30.0	0.62
J29	17 Lower Richmond Road	29.1	29.7	0.62
J30	18 Lower Richmond Road	28.8	29.4	0.62
J31	19 Lower Richmond Road	28.4	29.0	0.61
J32	20 Lower Richmond Road	28.1	28.7	0.60
J33	21 Lower Richmond Road	27.6	28.2	0.59
J34	22 Lower Richmond Road	27.6	28.2	0.61
J35	23 Lower Richmond Road	26.8	27.3	0.58

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J36	24 Lower Richmond Road	25.9	26.4	0.54
J37	25 Lower Richmond Road	25.2	25.8	0.51
J38	26 Lower Richmond Road	24.8	25.3	0.50
J39	27 Lower Richmond Road	24.4	24.9	0.50
J40	28 Lower Richmond Road	23.8	24.3	0.46
J41	29 Lower Richmond Road	23.9	24.4	0.48
J42	30 Lower Richmond Road	23.4	23.8	0.46
J43	31 Lower Richmond Road	23.2	23.6	0.46
J44	32 Lower Richmond Road	23.1	23.5	0.45
J45	33 Lower Richmond Road	23.2	23.7	0.48
J46	34 Lower Richmond Road	23.2	23.7	0.48
J47	35 Lower Richmond Road	22.8	23.2	0.47
J48	36 Lower Richmond Road	23.0	23.5	0.48
J49	1 Chertsey Court	22.6	23.0	0.40
J50	2 Chertsey Court	22.7	23.1	0.41
J51	3 Chertsey Court	23.1	23.5	0.40
J52	4 Chertsey Court	23.6	24.0	0.42
J53	5 Chertsey Court	24.5	24.9	0.43
J54	6 Chertsey Court	24.8	25.3	0.44
J55	7 Chertsey Court	25.4	25.9	0.45
J56	8 Chertsey Court	25.7	26.2	0.44
J57	9 Chertsey Court	26.3	26.7	0.45
J58	10 Chertsey Court	25.4	25.8	0.37
J59	11 Chertsey Court	25.1	25.4	0.33
J60	12 Chertsey Court	26.0	26.3	0.32
J61	13 Chertsey Court	26.0	26.3	0.29
J62	14 Chertsey Court	25.4	25.7	0.27
J63	15 Chertsey Court	25.1	25.3	0.27
J64	16 Chertsey Court	24.8	25.0	0.25
J65	17 Chertsey Court	24.6	24.8	0.24
J66	18 Chertsey Court	24.5	24.7	0.24
J67	19 Chertsey Court	24.3	24.5	0.23
J68	20 Chertsey Court	24.2	24.4	0.24
J69	21 Chertsey Court	22.5	22.9	0.42
J70	22 Chertsey Court	22.2	22.6	0.42
J71	23 Chertsey Court	21.8	22.2	0.42
J72	1 Chertsey Court	22.0	22.3	0.37
J73	2 Chertsey Court	22.1	22.5	0.37
J74	3 Chertsey Court	22.5	22.9	0.37
J75	4 Chertsey Court	22.9	23.3	0.39
J76	5 Chertsey Court	23.7	24.1	0.39

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J77	6 Chertsey Court	24.0	24.4	0.40
J78	7 Chertsey Court	24.5	24.9	0.41
J79	8 Chertsey Court	24.8	25.2	0.40
J80	9 Chertsey Court	25.4	25.7	0.40
J81	10 Chertsey Court	24.8	25.2	0.35
J82	11 Chertsey Court	24.6	24.9	0.30
J83	12 Chertsey Court	25.4	25.6	0.29
J84	13 Chertsey Court	25.3	25.6	0.28
J85	14 Chertsey Court	24.8	25.0	0.26
J86	15 Chertsey Court	24.5	24.7	0.25
J87	16 Chertsey Court	24.2	24.4	0.24
J88	17 Chertsey Court	24.0	24.2	0.24
J89	18 Chertsey Court	23.8	24.1	0.23
J90	19 Chertsey Court	23.7	23.9	0.23
J91	20 Chertsey Court	23.6	23.8	0.23
J92	21 Chertsey Court	21.8	22.2	0.38
J93	22 Chertsey Court	21.6	21.9	0.38
J94	23 Chertsey Court	21.2	21.6	0.39
J95	1 Chertsey Court	20.8	21.1	0.30
J96	2 Chertsey Court	20.9	21.2	0.29
J97	3 Chertsey Court	21.2	21.5	0.30
J98	4 Chertsey Court	21.5	21.8	0.30
J99	5 Chertsey Court	22.1	22.4	0.31
J100	6 Chertsey Court	22.3	22.6	0.31
J101	7 Chertsey Court	22.6	22.9	0.30
J102	8 Chertsey Court	22.9	23.2	0.31
J103	9 Chertsey Court	23.4	23.7	0.31
J104	10 Chertsey Court	23.4	23.6	0.29
J105	11 Chertsey Court	23.3	23.6	0.27
J106	12 Chertsey Court	23.8	24.1	0.27
J107	13 Chertsey Court	23.7	23.9	0.24
J108	14 Chertsey Court	23.3	23.5	0.23
J109	15 Chertsey Court	23.0	23.2	0.22
J110	16 Chertsey Court	22.8	23.0	0.22
J111	17 Chertsey Court	22.6	22.8	0.22
J112	18 Chertsey Court	22.5	22.7	0.22
J113	19 Chertsey Court	22.3	22.5	0.21
J114	20 Chertsey Court	22.2	22.4	0.21
J115	21 Chertsey Court	20.6	20.9	0.31
J116	22 Chertsey Court	20.3	20.6	0.31
J117	23 Chertsey Court	20.1	20.4	0.32

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J118	1 Chertsey Court	19.7	19.9	0.24
J119	2 Chertsey Court	19.8	20.0	0.23
J120	3 Chertsey Court	20.0	20.3	0.23
J121	4 Chertsey Court	20.2	20.5	0.23
J122	5 Chertsey Court	20.6	20.8	0.23
J123	6 Chertsey Court	20.7	20.9	0.23
J124	7 Chertsey Court	20.9	21.1	0.22
J125	8 Chertsey Court	21.2	21.4	0.22
J126	9 Chertsey Court	21.5	21.7	0.23
J127	10 Chertsey Court	21.7	21.9	0.22
J128	11 Chertsey Court	21.8	22.0	0.22
J129	12 Chertsey Court	22.1	22.3	0.22
J130	13 Chertsey Court	21.9	22.1	0.21
J131	14 Chertsey Court	21.6	21.8	0.20
J132	15 Chertsey Court	21.4	21.6	0.20
J133	16 Chertsey Court	21.3	21.5	0.20
J134	17 Chertsey Court	21.1	21.3	0.19
J135	18 Chertsey Court	21.0	21.2	0.19
J136	19 Chertsey Court	20.9	21.1	0.19
J137	20 Chertsey Court	20.8	21.0	0.20
J138	21 Chertsey Court	19.5	19.8	0.23
J139	22 Chertsey Court	19.3	19.6	0.24
J140	23 Chertsey Court	19.2	19.4	0.26
J141		24.0	24.2	0.24
J142		23.8	24.0	0.24
J143		23.6	23.8	0.24
J144		23.4	23.7	0.23
J145		23.4	23.7	0.23
J146		23.3	23.5	0.23
J147		22.4	22.6	0.23
J148		22.4	22.6	0.23
J149		23.4	23.6	0.23
J150		23.2	23.4	0.22
J151		23.0	23.3	0.22
J152		22.9	23.1	0.23
J153		22.9	23.1	0.22
J154		22.8	23.0	0.23
J155		21.8	22.1	0.22
J156		21.8	22.0	0.22
J157		22.1	22.3	0.21
J158		21.9	22.1	0.21

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J159		21.8	22.0	0.20
J160		21.6	21.8	0.22
J161		21.6	21.8	0.21
J162		21.5	21.7	0.21
J163		20.6	20.8	0.21
J164		20.6	20.8	0.21
J165		20.7	20.9	0.19
J166		20.6	20.7	0.19
J167		20.4	20.6	0.19
J168		20.4	20.5	0.20
J169		20.3	20.5	0.20
J170		20.2	20.4	0.19
J171		19.4	19.6	0.19
J172		19.3	19.5	0.19
J173		22.6	23.1	0.54
J174		21.4	22.0	0.59
J175		22.1	22.8	0.67
J176		22.2	22.9	0.72
J177		22.2	22.9	0.72
J178		20.5	21.1	0.67
J179		19.9	20.7	0.74
J180		20.9	21.8	0.91

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may a slight difference in the calculated change in concentrations between the different scenarios

Table A2: Option 2, Scenario 2.1

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J1	179 Lower Richmond Road	30.9	31.2	0.24
J2	179 Lower Richmond Road	29.2	29.4	0.22
J3	179 Lower Richmond Road	25.6	25.8	0.17
J4	179 Lower Richmond Road	22.5	22.7	0.13
J5	189 Lower Richmond Road	28.7	28.9	0.21
J6	2 South Circular	31.2	31.3	0.18
J7	2a South Circular	28.8	29.0	0.17
J8	4 South Circular	31.4	31.5	0.17

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J9	4a South Circular	28.7	28.9	0.17
J10	6 South Circular	29.4	29.6	0.15
J11	8 South Circular	29.4	29.6	0.15
J12	67 Shalstone Road	30.3	30.5	0.20
J13	1 Lower Richmond Road	36.3	36.6	0.32
J14	2 Lower Richmond Road	35.3	35.6	0.35
J15	3 Lower Richmond Road	32.9	33.3	0.36
J16	4 Lower Richmond Road	31.3	31.7	0.39
J17	5 Lower Richmond Road	30.3	30.7	0.43
J18	6 Lower Richmond Road	29.7	30.2	0.56
J19	7 Lower Richmond Road	29.1	29.8	0.70
J20	8 Lower Richmond Road	29.5	30.4	0.94
J21	9 Lower Richmond Road	29.6	30.5	0.85
J22	10 Lower Richmond Road	30.0	30.7	0.68
J23	11 Lower Richmond Road	30.0	30.6	0.62
J24	12 Lower Richmond Road	30.5	31.1	0.61
J25	13 Lower Richmond Road	29.6	30.1	0.57
J26	14 Lower Richmond Road	30.0	30.5	0.59
J27	15 Lower Richmond Road	29.7	30.2	0.59
J28	16 Lower Richmond Road	29.4	29.9	0.58
J29	17 Lower Richmond Road	29.1	29.6	0.58
J30	18 Lower Richmond Road	28.8	29.3	0.58
J31	19 Lower Richmond Road	28.4	29.0	0.58
J32	20 Lower Richmond Road	28.1	28.6	0.56
J33	21 Lower Richmond Road	27.6	28.2	0.55
J34	22 Lower Richmond Road	27.6	28.2	0.57
J35	23 Lower Richmond Road	26.8	27.3	0.56
J36	24 Lower Richmond Road	25.9	26.4	0.53
J37	25 Lower Richmond Road	25.2	25.7	0.50
J38	26 Lower Richmond Road	24.8	25.3	0.49
J39	27 Lower Richmond Road	24.4	24.9	0.49
J40	28 Lower Richmond Road	23.8	24.2	0.45
J41	29 Lower Richmond Road	23.9	24.4	0.47
J42	30 Lower Richmond Road	23.4	23.8	0.45
J43	31 Lower Richmond Road	23.2	23.6	0.44
J44	32 Lower Richmond Road	23.1	23.5	0.43
J45	33 Lower Richmond Road	23.2	23.7	0.46
J46	34 Lower Richmond Road	23.2	23.7	0.46
J47	35 Lower Richmond Road	22.8	23.2	0.45
J48	36 Lower Richmond Road	23.0	23.4	0.45
J49	1 Chertsey Court	22.6	22.9	0.39

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J50	2 Chertsey Court	22.7	23.1	0.40
J51	3 Chertsey Court	23.1	23.5	0.39
J52	4 Chertsey Court	23.6	24.0	0.42
J53	5 Chertsey Court	24.5	24.9	0.43
J54	6 Chertsey Court	24.8	25.3	0.44
J55	7 Chertsey Court	25.4	25.9	0.45
J56	8 Chertsey Court	25.7	26.2	0.44
J57	9 Chertsey Court	26.3	26.7	0.45
J58	10 Chertsey Court	25.4	25.8	0.37
J59	11 Chertsey Court	25.1	25.4	0.32
J60	12 Chertsey Court	26.0	26.3	0.31
J61	13 Chertsey Court	26.0	26.3	0.28
J62	14 Chertsey Court	25.4	25.7	0.26
J63	15 Chertsey Court	25.1	25.3	0.26
J64	16 Chertsey Court	24.8	25.0	0.25
J65	17 Chertsey Court	24.6	24.8	0.24
J66	18 Chertsey Court	24.5	24.7	0.23
J67	19 Chertsey Court	24.3	24.5	0.23
J68	20 Chertsey Court	24.2	24.4	0.24
J69	21 Chertsey Court	22.5	22.9	0.41
J70	22 Chertsey Court	22.2	22.6	0.40
J71	23 Chertsey Court	21.8	22.2	0.39
J72	1 Chertsey Court	22.0	22.3	0.36
J73	2 Chertsey Court	22.1	22.5	0.36
J74	3 Chertsey Court	22.5	22.9	0.36
J75	4 Chertsey Court	22.9	23.3	0.38
J76	5 Chertsey Court	23.7	24.1	0.38
J77	6 Chertsey Court	24.0	24.4	0.39
J78	7 Chertsey Court	24.5	24.9	0.40
J79	8 Chertsey Court	24.8	25.2	0.40
J80	9 Chertsey Court	25.4	25.7	0.40
J81	10 Chertsey Court	24.8	25.2	0.35
J82	11 Chertsey Court	24.6	24.9	0.30
J83	12 Chertsey Court	25.4	25.6	0.29
J84	13 Chertsey Court	25.3	25.6	0.27
J85	14 Chertsey Court	24.8	25.0	0.25
J86	15 Chertsey Court	24.5	24.7	0.24
J87	16 Chertsey Court	24.2	24.4	0.24
J88	17 Chertsey Court	24.0	24.2	0.24
J89	18 Chertsey Court	23.8	24.1	0.23
J90	19 Chertsey Court	23.7	23.9	0.22

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J91	20 Chertsey Court	23.6	23.8	0.23
J92	21 Chertsey Court	21.8	22.2	0.37
J93	22 Chertsey Court	21.6	21.9	0.36
J94	23 Chertsey Court	21.2	21.6	0.36
J95	1 Chertsey Court	20.8	21.1	0.29
J96	2 Chertsey Court	20.9	21.2	0.28
J97	3 Chertsey Court	21.2	21.5	0.29
J98	4 Chertsey Court	21.5	21.8	0.29
J99	5 Chertsey Court	22.1	22.3	0.30
J100	6 Chertsey Court	22.3	22.6	0.31
J101	7 Chertsey Court	22.6	22.9	0.30
J102	8 Chertsey Court	22.9	23.2	0.30
J103	9 Chertsey Court	23.4	23.7	0.31
J104	10 Chertsey Court	23.4	23.6	0.29
J105	11 Chertsey Court	23.3	23.6	0.26
J106	12 Chertsey Court	23.8	24.1	0.26
J107	13 Chertsey Court	23.7	23.9	0.24
J108	14 Chertsey Court	23.3	23.5	0.23
J109	15 Chertsey Court	23.0	23.2	0.22
J110	16 Chertsey Court	22.8	23.0	0.22
J111	17 Chertsey Court	22.6	22.8	0.21
J112	18 Chertsey Court	22.5	22.7	0.21
J113	19 Chertsey Court	22.3	22.5	0.20
J114	20 Chertsey Court	22.2	22.4	0.21
J115	21 Chertsey Court	20.6	20.9	0.30
J116	22 Chertsey Court	20.3	20.6	0.29
J117	23 Chertsey Court	20.1	20.4	0.29
J118	1 Chertsey Court	19.7	19.9	0.23
J119	2 Chertsey Court	19.8	20.0	0.22
J120	3 Chertsey Court	20.0	20.3	0.22
J121	4 Chertsey Court	20.2	20.4	0.22
J122	5 Chertsey Court	20.6	20.8	0.22
J123	6 Chertsey Court	20.7	20.9	0.22
J124	7 Chertsey Court	20.9	21.1	0.22
J125	8 Chertsey Court	21.2	21.4	0.22
J126	9 Chertsey Court	21.5	21.7	0.23
J127	10 Chertsey Court	21.7	21.9	0.22
J128	11 Chertsey Court	21.8	22.0	0.22
J129	12 Chertsey Court	22.1	22.3	0.21
J130	13 Chertsey Court	21.9	22.1	0.20
J131	14 Chertsey Court	21.6	21.8	0.19

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J132	15 Chertsey Court	21.4	21.6	0.20
J133	16 Chertsey Court	21.3	21.5	0.19
J134	17 Chertsey Court	21.1	21.3	0.19
J135	18 Chertsey Court	21.0	21.2	0.19
J136	19 Chertsey Court	20.9	21.1	0.18
J137	20 Chertsey Court	20.8	21.0	0.19
J138	21 Chertsey Court	19.5	19.8	0.22
J139	22 Chertsey Court	19.3	19.6	0.22
J140	23 Chertsey Court	19.2	19.4	0.24
J141		24.0	24.2	0.23
J142		23.8	24.0	0.23
J143		23.6	23.8	0.23
J144		23.4	23.7	0.23
J145		23.4	23.7	0.23
J146		23.3	23.5	0.22
J147		22.4	22.6	0.22
J148		22.4	22.6	0.22
J149		23.4	23.6	0.22
J150		23.2	23.4	0.22
J151		23.0	23.3	0.22
J152		22.9	23.1	0.22
J153		22.9	23.1	0.22
J154		22.8	23.0	0.22
J155		21.8	22.1	0.22
J156		21.8	22.0	0.22
J157		22.1	22.3	0.20
J158		21.9	22.1	0.20
J159		21.8	22.0	0.20
J160		21.6	21.8	0.21
J161		21.6	21.8	0.20
J162		21.5	21.7	0.20
J163		20.6	20.8	0.20
J164		20.6	20.8	0.20
J165		20.7	20.9	0.18
J166		20.6	20.7	0.18
J167		20.4	20.6	0.18
J168		20.4	20.5	0.19
J169		20.3	20.5	0.19
J170		20.2	20.4	0.19
J171		19.4	19.6	0.18
J172		19.3	19.5	0.18

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J173		22.6	22.8	0.27
J174		21.4	21.4	-0.05
J175		22.1	22.0	-0.13
J176		22.2	22.1	-0.11
J177		22.2	22.1	-0.09
J178		20.5	20.8	0.36
J179		19.9	20.6	0.64
J180		20.9	21.8	0.83

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may a slight difference in the calculated change in concentrations between the different scenarios

Table A3: Option 2, Scenario 2.2

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J1	179 Lower Richmond Road	31.2	31.2	0.01
J2	179 Lower Richmond Road	29.4	29.4	0.01
J3	179 Lower Richmond Road	25.8	25.8	0.00
J4	179 Lower Richmond Road	22.7	22.7	0.00
J5	189 Lower Richmond Road	28.9	28.9	0.00
J6	2 South Circular	31.3	31.3	0.01
J7	2a South Circular	29.0	29.0	0.00
J8	4 South Circular	31.5	31.5	0.00
J9	4a South Circular	28.8	28.9	0.01
J10	6 South Circular	29.6	29.6	0.00
J11	8 South Circular	29.6	29.6	0.00
J12	67 Shalstone Road	30.5	30.5	0.01
J13	1 Lower Richmond Road	36.6	36.6	0.02
J14	2 Lower Richmond Road	35.6	35.6	0.04
J15	3 Lower Richmond Road	33.2	33.3	0.06
J16	4 Lower Richmond Road	31.6	31.7	0.08
J17	5 Lower Richmond Road	30.6	30.7	0.11
J18	6 Lower Richmond Road	30.0	30.2	0.20
J19	7 Lower Richmond Road	29.5	29.8	0.31
J20	8 Lower Richmond Road	29.9	30.4	0.48
J21	9 Lower Richmond Road	30.2	30.5	0.33

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J22	10 Lower Richmond Road	30.6	30.7	0.12
J23	11 Lower Richmond Road	30.6	30.6	0.02
J24	12 Lower Richmond Road	31.1	31.1	-0.02
J25	13 Lower Richmond Road	30.1	30.1	-0.03
J26	14 Lower Richmond Road	30.6	30.5	-0.03
J27	15 Lower Richmond Road	30.3	30.2	-0.04
J28	16 Lower Richmond Road	30.0	29.9	-0.04
J29	17 Lower Richmond Road	29.7	29.6	-0.04
J30	18 Lower Richmond Road	29.4	29.3	-0.04
J31	19 Lower Richmond Road	29.0	29.0	-0.03
J32	20 Lower Richmond Road	28.7	28.6	-0.04
J33	21 Lower Richmond Road	28.2	28.2	-0.04
J34	22 Lower Richmond Road	28.2	28.2	-0.04
J35	23 Lower Richmond Road	27.3	27.3	-0.02
J36	24 Lower Richmond Road	26.4	26.4	-0.01
J37	25 Lower Richmond Road	25.8	25.7	-0.01
J38	26 Lower Richmond Road	25.3	25.3	-0.01
J39	27 Lower Richmond Road	24.9	24.9	-0.01
J40	28 Lower Richmond Road	24.3	24.2	-0.01
J41	29 Lower Richmond Road	24.4	24.4	-0.01
J42	30 Lower Richmond Road	23.8	23.8	-0.01
J43	31 Lower Richmond Road	23.6	23.6	-0.02
J44	32 Lower Richmond Road	23.5	23.5	-0.02
J45	33 Lower Richmond Road	23.7	23.7	-0.02
J46	34 Lower Richmond Road	23.7	23.7	-0.02
J47	35 Lower Richmond Road	23.2	23.2	-0.02
J48	36 Lower Richmond Road	23.5	23.4	-0.03
J49	1 Chertsey Court	23.0	22.9	-0.01
J50	2 Chertsey Court	23.1	23.1	-0.01
J51	3 Chertsey Court	23.5	23.5	-0.01
J52	4 Chertsey Court	24.0	24.0	0.00
J53	5 Chertsey Court	24.9	24.9	0.00
J54	6 Chertsey Court	25.3	25.3	0.00
J55	7 Chertsey Court	25.9	25.9	0.00
J56	8 Chertsey Court	26.2	26.2	0.00
J57	9 Chertsey Court	26.7	26.7	0.00
J58	10 Chertsey Court	25.8	25.8	0.00
J59	11 Chertsey Court	25.4	25.4	-0.01
J60	12 Chertsey Court	26.3	26.3	-0.01
J61	13 Chertsey Court	26.3	26.3	-0.01
J62	14 Chertsey Court	25.7	25.7	-0.01

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J63	15 Chertsey Court	25.3	25.3	-0.01
J64	16 Chertsey Court	25.0	25.0	0.00
J65	17 Chertsey Court	24.8	24.8	0.00
J66	18 Chertsey Court	24.7	24.7	-0.01
J67	19 Chertsey Court	24.5	24.5	0.00
J68	20 Chertsey Court	24.4	24.4	0.00
J69	21 Chertsey Court	22.9	22.9	-0.01
J70	22 Chertsey Court	22.6	22.6	-0.02
J71	23 Chertsey Court	22.2	22.2	-0.03
J72	1 Chertsey Court	22.3	22.3	-0.01
J73	2 Chertsey Court	22.5	22.5	-0.01
J74	3 Chertsey Court	22.9	22.9	-0.01
J75	4 Chertsey Court	23.3	23.3	-0.01
J76	5 Chertsey Court	24.1	24.1	-0.01
J77	6 Chertsey Court	24.4	24.4	-0.01
J78	7 Chertsey Court	24.9	24.9	-0.01
J79	8 Chertsey Court	25.2	25.2	0.00
J80	9 Chertsey Court	25.7	25.7	0.00
J81	10 Chertsey Court	25.2	25.2	0.00
J82	11 Chertsey Court	24.9	24.9	0.00
J83	12 Chertsey Court	25.6	25.6	0.00
J84	13 Chertsey Court	25.6	25.6	-0.01
J85	14 Chertsey Court	25.0	25.0	-0.01
J86	15 Chertsey Court	24.7	24.7	-0.01
J87	16 Chertsey Court	24.4	24.4	0.00
J88	17 Chertsey Court	24.2	24.2	0.00
J89	18 Chertsey Court	24.1	24.1	0.00
J90	19 Chertsey Court	23.9	23.9	-0.01
J91	20 Chertsey Court	23.8	23.8	0.00
J92	21 Chertsey Court	22.2	22.2	-0.01
J93	22 Chertsey Court	21.9	21.9	-0.02
J94	23 Chertsey Court	21.6	21.6	-0.03
J95	1 Chertsey Court	21.1	21.1	-0.01
J96	2 Chertsey Court	21.2	21.2	-0.01
J97	3 Chertsey Court	21.5	21.5	-0.01
J98	4 Chertsey Court	21.8	21.8	-0.01
J99	5 Chertsey Court	22.4	22.3	-0.01
J100	6 Chertsey Court	22.6	22.6	0.00
J101	7 Chertsey Court	22.9	22.9	0.00
J102	8 Chertsey Court	23.2	23.2	-0.01
J103	9 Chertsey Court	23.7	23.7	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J104	10 Chertsey Court	23.6	23.6	0.00
J105	11 Chertsey Court	23.6	23.6	-0.01
J106	12 Chertsey Court	24.1	24.1	-0.01
J107	13 Chertsey Court	23.9	23.9	0.00
J108	14 Chertsey Court	23.5	23.5	0.00
J109	15 Chertsey Court	23.2	23.2	0.00
J110	16 Chertsey Court	23.0	23.0	0.00
J111	17 Chertsey Court	22.8	22.8	-0.01
J112	18 Chertsey Court	22.7	22.7	-0.01
J113	19 Chertsey Court	22.5	22.5	-0.01
J114	20 Chertsey Court	22.4	22.4	0.00
J115	21 Chertsey Court	20.9	20.9	-0.01
J116	22 Chertsey Court	20.6	20.6	-0.02
J117	23 Chertsey Court	20.4	20.4	-0.03
J118	1 Chertsey Court	19.9	19.9	-0.01
J119	2 Chertsey Court	20.0	20.0	-0.01
J120	3 Chertsey Court	20.3	20.3	-0.01
J121	4 Chertsey Court	20.5	20.4	-0.01
J122	5 Chertsey Court	20.8	20.8	-0.01
J123	6 Chertsey Court	20.9	20.9	-0.01
J124	7 Chertsey Court	21.1	21.1	0.00
J125	8 Chertsey Court	21.4	21.4	0.00
J126	9 Chertsey Court	21.7	21.7	0.00
J127	10 Chertsey Court	21.9	21.9	0.00
J128	11 Chertsey Court	22.0	22.0	0.00
J129	12 Chertsey Court	22.3	22.3	-0.01
J130	13 Chertsey Court	22.1	22.1	-0.01
J131	14 Chertsey Court	21.8	21.8	-0.01
J132	15 Chertsey Court	21.6	21.6	0.00
J133	16 Chertsey Court	21.5	21.5	-0.01
J134	17 Chertsey Court	21.3	21.3	0.00
J135	18 Chertsey Court	21.2	21.2	0.00
J136	19 Chertsey Court	21.1	21.1	-0.01
J137	20 Chertsey Court	21.0	21.0	-0.01
J138	21 Chertsey Court	19.8	19.8	-0.01
J139	22 Chertsey Court	19.6	19.6	-0.02
J140	23 Chertsey Court	19.4	19.4	-0.02
J141		24.2	24.2	-0.01
J142		24.0	24.0	-0.01
J143		23.8	23.8	-0.01
J144		23.7	23.7	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J145		23.7	23.7	0.00
J146		23.5	23.5	-0.01
J147		22.6	22.6	-0.01
J148		22.6	22.6	-0.01
J149		23.6	23.6	-0.01
J150		23.4	23.4	0.00
J151		23.3	23.3	0.00
J152		23.1	23.1	-0.01
J153		23.1	23.1	0.00
J154		23.0	23.0	-0.01
J155		22.1	22.1	0.00
J156		22.0	22.0	0.00
J157		22.3	22.3	-0.01
J158		22.1	22.1	-0.01
J159		22.0	22.0	0.00
J160		21.8	21.8	-0.01
J161		21.8	21.8	-0.01
J162		21.7	21.7	-0.01
J163		20.8	20.8	-0.01
J164		20.8	20.8	-0.01
J165		20.9	20.9	-0.01
J166		20.7	20.7	-0.01
J167		20.6	20.6	-0.01
J168		20.5	20.5	-0.01
J169		20.5	20.5	-0.01
J170		20.4	20.4	0.00
J171		19.6	19.6	-0.01
J172		19.5	19.5	-0.01
J173		23.1	22.8	-0.27
J174		22.0	21.4	-0.64
J175		22.8	22.0	-0.80
J176		22.9	22.1	-0.83
J177		22.9	22.1	-0.81
J178		21.1	20.8	-0.31
J179		20.7	20.6	-0.10
J180		21.8	21.8	-0.08

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may a slight difference in the calculated change in concentrations between the different scenarios

Table A4: Option 3, Scenario 3.1

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J1	179 Lower Richmond Road	30.9	31.2	0.23
J2	179 Lower Richmond Road	29.2	29.4	0.21
J3	179 Lower Richmond Road	25.6	25.8	0.17
J4	179 Lower Richmond Road	22.5	22.7	0.13
J5	189 Lower Richmond Road	28.7	28.9	0.21
J6	2 South Circular	31.2	31.3	0.17
J7	2a South Circular	28.8	29.0	0.17
J8	4 South Circular	31.4	31.5	0.17
J9	4a South Circular	28.7	28.8	0.16
J10	6 South Circular	29.4	29.6	0.15
J11	8 South Circular	29.4	29.6	0.15
J12	67 Shalstone Road	30.3	30.5	0.19
J13	1 Lower Richmond Road	36.3	36.6	0.30
J14	2 Lower Richmond Road	35.3	35.6	0.31
J15	3 Lower Richmond Road	32.9	33.2	0.31
J16	4 Lower Richmond Road	31.3	31.6	0.32
J17	5 Lower Richmond Road	30.3	30.6	0.34
J18	6 Lower Richmond Road	29.7	30.0	0.39
J19	7 Lower Richmond Road	29.1	29.6	0.45
J20	8 Lower Richmond Road	29.5	30.0	0.54
J21	9 Lower Richmond Road	29.6	30.2	0.53
J22	10 Lower Richmond Road	30.0	30.5	0.51
J23	11 Lower Richmond Road	30.0	30.5	0.46
J24	12 Lower Richmond Road	30.5	30.8	0.31
J25	13 Lower Richmond Road	29.6	29.8	0.24
J26	14 Lower Richmond Road	30.0	30.1	0.19
J27	15 Lower Richmond Road	29.7	29.8	0.19
J28	16 Lower Richmond Road	29.4	29.6	0.19
J29	17 Lower Richmond Road	29.1	29.3	0.19
J30	18 Lower Richmond Road	28.8	29.0	0.20
J31	19 Lower Richmond Road	28.4	28.6	0.20
J32	20 Lower Richmond Road	28.1	28.3	0.19
J33	21 Lower Richmond Road	27.6	27.8	0.18
J34	22 Lower Richmond Road	27.6	27.8	0.15
J35	23 Lower Richmond Road	26.8	26.9	0.18
J36	24 Lower Richmond Road	25.9	26.1	0.20
J37	25 Lower Richmond Road	25.2	25.4	0.20
J38	26 Lower Richmond Road	24.8	25.0	0.19
J39	27 Lower Richmond Road	24.4	24.6	0.20
J40	28 Lower Richmond Road	23.8	24.0	0.22
J41	29 Lower Richmond Road	23.9	24.1	0.21

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J42	30 Lower Richmond Road	23.4	23.6	0.23
J43	31 Lower Richmond Road	23.2	23.4	0.23
J44	32 Lower Richmond Road	23.1	23.3	0.23
J45	33 Lower Richmond Road	23.2	23.5	0.24
J46	34 Lower Richmond Road	23.2	23.5	0.24
J47	35 Lower Richmond Road	22.8	23.0	0.27
J48	36 Lower Richmond Road	23.0	23.2	0.25
J49	1 Chertsey Court	22.6	23.0	0.44
J50	2 Chertsey Court	22.7	23.1	0.45
J51	3 Chertsey Court	23.1	23.6	0.46
J52	4 Chertsey Court	23.6	24.1	0.50
J53	5 Chertsey Court	24.5	25.0	0.53
J54	6 Chertsey Court	24.8	25.4	0.56
J55	7 Chertsey Court	25.4	26.0	0.57
J56	8 Chertsey Court	25.7	26.3	0.56
J57	9 Chertsey Court	26.3	26.8	0.56
J58	10 Chertsey Court	25.4	25.9	0.43
J59	11 Chertsey Court	25.1	25.4	0.36
J60	12 Chertsey Court	26.0	26.3	0.34
J61	13 Chertsey Court	26.0	26.3	0.30
J62	14 Chertsey Court	25.4	25.7	0.28
J63	15 Chertsey Court	25.1	25.3	0.27
J64	16 Chertsey Court	24.8	25.0	0.26
J65	17 Chertsey Court	24.6	24.8	0.25
J66	18 Chertsey Court	24.5	24.7	0.24
J67	19 Chertsey Court	24.3	24.5	0.24
J68	20 Chertsey Court	24.2	24.4	0.25
J69	21 Chertsey Court	22.5	22.9	0.46
J70	22 Chertsey Court	22.2	22.6	0.45
J71	23 Chertsey Court	21.8	22.2	0.44
J72	1 Chertsey Court	22.0	22.4	0.39
J73	2 Chertsey Court	22.1	22.5	0.40
J74	3 Chertsey Court	22.5	22.9	0.41
J75	4 Chertsey Court	22.9	23.4	0.44
J76	5 Chertsey Court	23.7	24.2	0.46
J77	6 Chertsey Court	24.0	24.5	0.48
J78	7 Chertsey Court	24.5	25.0	0.49
J79	8 Chertsey Court	24.8	25.3	0.49
J80	9 Chertsey Court	25.4	25.8	0.48
J81	10 Chertsey Court	24.8	25.2	0.40
J82	11 Chertsey Court	24.6	24.9	0.34

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J83	12 Chertsey Court	25.4	25.7	0.31
J84	13 Chertsey Court	25.3	25.6	0.29
J85	14 Chertsey Court	24.8	25.0	0.26
J86	15 Chertsey Court	24.5	24.7	0.25
J87	16 Chertsey Court	24.2	24.4	0.25
J88	17 Chertsey Court	24.0	24.2	0.25
J89	18 Chertsey Court	23.8	24.1	0.24
J90	19 Chertsey Court	23.7	23.9	0.23
J91	20 Chertsey Court	23.6	23.8	0.23
J92	21 Chertsey Court	21.8	22.2	0.40
J93	22 Chertsey Court	21.6	21.9	0.40
J94	23 Chertsey Court	21.2	21.6	0.40
J95	1 Chertsey Court	20.8	21.1	0.30
J96	2 Chertsey Court	20.9	21.2	0.30
J97	3 Chertsey Court	21.2	21.5	0.31
J98	4 Chertsey Court	21.5	21.8	0.32
J99	5 Chertsey Court	22.1	22.4	0.34
J100	6 Chertsey Court	22.3	22.6	0.34
J101	7 Chertsey Court	22.6	23.0	0.34
J102	8 Chertsey Court	22.9	23.3	0.34
J103	9 Chertsey Court	23.4	23.7	0.34
J104	10 Chertsey Court	23.4	23.7	0.32
J105	11 Chertsey Court	23.3	23.6	0.29
J106	12 Chertsey Court	23.8	24.1	0.28
J107	13 Chertsey Court	23.7	24.0	0.25
J108	14 Chertsey Court	23.3	23.5	0.24
J109	15 Chertsey Court	23.0	23.2	0.23
J110	16 Chertsey Court	22.8	23.0	0.23
J111	17 Chertsey Court	22.6	22.8	0.22
J112	18 Chertsey Court	22.5	22.7	0.22
J113	19 Chertsey Court	22.3	22.5	0.21
J114	20 Chertsey Court	22.2	22.4	0.22
J115	21 Chertsey Court	20.6	20.9	0.31
J116	22 Chertsey Court	20.3	20.6	0.31
J117	23 Chertsey Court	20.1	20.4	0.31
J118	1 Chertsey Court	19.7	19.9	0.23
J119	2 Chertsey Court	19.8	20.0	0.23
J120	3 Chertsey Court	20.0	20.3	0.23
J121	4 Chertsey Court	20.2	20.5	0.23
J122	5 Chertsey Court	20.6	20.8	0.23
J123	6 Chertsey Court	20.7	20.9	0.23

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J124	7 Chertsey Court	20.9	21.1	0.22
J125	8 Chertsey Court	21.2	21.4	0.23
J126	9 Chertsey Court	21.5	21.7	0.23
J127	10 Chertsey Court	21.7	21.9	0.23
J128	11 Chertsey Court	21.8	22.0	0.23
J129	12 Chertsey Court	22.1	22.3	0.22
J130	13 Chertsey Court	21.9	22.1	0.21
J131	14 Chertsey Court	21.6	21.8	0.20
J132	15 Chertsey Court	21.4	21.6	0.21
J133	16 Chertsey Court	21.3	21.5	0.20
J134	17 Chertsey Court	21.1	21.3	0.19
J135	18 Chertsey Court	21.0	21.2	0.19
J136	19 Chertsey Court	20.9	21.1	0.19
J137	20 Chertsey Court	20.8	21.0	0.20
J138	21 Chertsey Court	19.5	19.8	0.22
J139	22 Chertsey Court	19.3	19.6	0.23
J140	23 Chertsey Court	19.2	19.4	0.25
J141		24.0	24.2	0.24
J142		23.8	24.0	0.24
J143		23.6	23.8	0.24
J144		23.4	23.7	0.23
J145		23.4	23.7	0.23
J146		23.3	23.5	0.23
J147		22.4	22.6	0.23
J148		22.4	22.6	0.23
J149		23.4	23.6	0.23
J150		23.2	23.4	0.22
J151		23.0	23.3	0.23
J152		22.9	23.1	0.23
J153		22.9	23.1	0.22
J154		22.8	23.0	0.23
J155		21.8	22.1	0.22
J156		21.8	22.0	0.22
J157		22.1	22.3	0.21
J158		21.9	22.1	0.21
J159		21.8	22.0	0.20
J160		21.6	21.8	0.22
J161		21.6	21.8	0.21
J162		21.5	21.7	0.21
J163		20.6	20.8	0.21
J164		20.6	20.8	0.21

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J165		20.7	20.9	0.19
J166		20.6	20.7	0.19
J167		20.4	20.6	0.19
J168		20.4	20.5	0.20
J169		20.3	20.5	0.20
J170		20.2	20.4	0.19
J171		19.4	19.6	0.19
J172		19.3	19.5	0.19
J173		22.6	22.7	0.17
J174		21.4	31.2	0.22
J175		22.1	29.4	0.12
J176		22.2	25.8	0.16
J177		22.2	22.7	0.22
J178		20.5	28.9	0.69
J179		19.9	31.3	0.80
J180		20.9	29.0	0.95

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may be a slight difference in the calculated change in concentrations between the different scenarios

Table A5: Option 3, Scenario 3.2

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J1	179 Lower Richmond Road	31.2	31.2	0.00
J2	179 Lower Richmond Road	29.4	29.4	0.00
J3	179 Lower Richmond Road	25.8	25.8	0.00
J4	179 Lower Richmond Road	22.7	22.7	0.00
J5	189 Lower Richmond Road	28.9	28.9	0.00
J6	2 South Circular	31.3	31.3	0.00
J7	2a South Circular	29.0	29.0	0.00
J8	4 South Circular	31.5	31.5	0.00
J9	4a South Circular	28.8	28.8	0.00
J10	6 South Circular	29.6	29.6	0.00
J11	8 South Circular	29.6	29.6	0.00
J12	67 Shalstone Road	30.5	30.5	0.00
J13	1 Lower Richmond Road	36.6	36.6	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J14	2 Lower Richmond Road	35.6	35.6	0.00
J15	3 Lower Richmond Road	33.2	33.2	0.01
J16	4 Lower Richmond Road	31.6	31.6	0.01
J17	5 Lower Richmond Road	30.6	30.6	0.02
J18	6 Lower Richmond Road	30.0	30.0	0.03
J19	7 Lower Richmond Road	29.5	29.6	0.06
J20	8 Lower Richmond Road	29.9	30.0	0.08
J21	9 Lower Richmond Road	30.2	30.2	0.01
J22	10 Lower Richmond Road	30.6	30.5	-0.05
J23	11 Lower Richmond Road	30.6	30.5	-0.14
J24	12 Lower Richmond Road	31.1	30.8	-0.32
J25	13 Lower Richmond Road	30.1	29.8	-0.36
J26	14 Lower Richmond Road	30.6	30.1	-0.43
J27	15 Lower Richmond Road	30.3	29.8	-0.44
J28	16 Lower Richmond Road	30.0	29.6	-0.43
J29	17 Lower Richmond Road	29.7	29.3	-0.43
J30	18 Lower Richmond Road	29.4	29.0	-0.42
J31	19 Lower Richmond Road	29.0	28.6	-0.41
J32	20 Lower Richmond Road	28.7	28.3	-0.41
J33	21 Lower Richmond Road	28.2	27.8	-0.41
J34	22 Lower Richmond Road	28.2	27.8	-0.46
J35	23 Lower Richmond Road	27.3	26.9	-0.40
J36	24 Lower Richmond Road	26.4	26.1	-0.34
J37	25 Lower Richmond Road	25.8	25.4	-0.31
J38	26 Lower Richmond Road	25.3	25.0	-0.31
J39	27 Lower Richmond Road	24.9	24.6	-0.30
J40	28 Lower Richmond Road	24.3	24.0	-0.24
J41	29 Lower Richmond Road	24.4	24.1	-0.27
J42	30 Lower Richmond Road	23.8	23.6	-0.23
J43	31 Lower Richmond Road	23.6	23.4	-0.23
J44	32 Lower Richmond Road	23.5	23.3	-0.22
J45	33 Lower Richmond Road	23.7	23.5	-0.24
J46	34 Lower Richmond Road	23.7	23.5	-0.24
J47	35 Lower Richmond Road	23.2	23.0	-0.20
J48	36 Lower Richmond Road	23.5	23.2	-0.23
J49	1 Chertsey Court	23.0	23.0	0.04
J50	2 Chertsey Court	23.1	23.1	0.04
J51	3 Chertsey Court	23.5	23.6	0.06
J52	4 Chertsey Court	24.0	24.1	0.08

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J53	5 Chertsey Court	24.9	25.0	0.10
J54	6 Chertsey Court	25.3	25.4	0.12
J55	7 Chertsey Court	25.9	26.0	0.12
J56	8 Chertsey Court	26.2	26.3	0.12
J57	9 Chertsey Court	26.7	26.8	0.11
J58	10 Chertsey Court	25.8	25.9	0.06
J59	11 Chertsey Court	25.4	25.4	0.03
J60	12 Chertsey Court	26.3	26.3	0.02
J61	13 Chertsey Court	26.3	26.3	0.01
J62	14 Chertsey Court	25.7	25.7	0.01
J63	15 Chertsey Court	25.3	25.3	0.00
J64	16 Chertsey Court	25.0	25.0	0.01
J65	17 Chertsey Court	24.8	24.8	0.01
J66	18 Chertsey Court	24.7	24.7	0.00
J67	19 Chertsey Court	24.5	24.5	0.01
J68	20 Chertsey Court	24.4	24.4	0.01
J69	21 Chertsey Court	22.9	22.9	0.04
J70	22 Chertsey Court	22.6	22.6	0.03
J71	23 Chertsey Court	22.2	22.2	0.02
J72	1 Chertsey Court	22.3	22.4	0.02
J73	2 Chertsey Court	22.5	22.5	0.03
J74	3 Chertsey Court	22.9	22.9	0.04
J75	4 Chertsey Court	23.3	23.4	0.05
J76	5 Chertsey Court	24.1	24.2	0.07
J77	6 Chertsey Court	24.4	24.5	0.08
J78	7 Chertsey Court	24.9	25.0	0.08
J79	8 Chertsey Court	25.2	25.3	0.09
J80	9 Chertsey Court	25.7	25.8	0.08
J81	10 Chertsey Court	25.2	25.2	0.05
J82	11 Chertsey Court	24.9	24.9	0.04
J83	12 Chertsey Court	25.6	25.7	0.02
J84	13 Chertsey Court	25.6	25.6	0.01
J85	14 Chertsey Court	25.0	25.0	0.00
J86	15 Chertsey Court	24.7	24.7	0.00
J87	16 Chertsey Court	24.4	24.4	0.01
J88	17 Chertsey Court	24.2	24.2	0.01
J89	18 Chertsey Court	24.1	24.1	0.01
J90	19 Chertsey Court	23.9	23.9	0.00
J91	20 Chertsey Court	23.8	23.8	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J92	21 Chertsey Court	22.2	22.2	0.02
J93	22 Chertsey Court	21.9	21.9	0.02
J94	23 Chertsey Court	21.6	21.6	0.01
J95	1 Chertsey Court	21.1	21.1	0.00
J96	2 Chertsey Court	21.2	21.2	0.01
J97	3 Chertsey Court	21.5	21.5	0.01
J98	4 Chertsey Court	21.8	21.8	0.02
J99	5 Chertsey Court	22.4	22.4	0.03
J100	6 Chertsey Court	22.6	22.6	0.03
J101	7 Chertsey Court	22.9	23.0	0.04
J102	8 Chertsey Court	23.2	23.3	0.03
J103	9 Chertsey Court	23.7	23.7	0.03
J104	10 Chertsey Court	23.6	23.7	0.03
J105	11 Chertsey Court	23.6	23.6	0.02
J106	12 Chertsey Court	24.1	24.1	0.01
J107	13 Chertsey Court	23.9	24.0	0.01
J108	14 Chertsey Court	23.5	23.5	0.01
J109	15 Chertsey Court	23.2	23.2	0.01
J110	16 Chertsey Court	23.0	23.0	0.01
J111	17 Chertsey Court	22.8	22.8	0.00
J112	18 Chertsey Court	22.7	22.7	0.00
J113	19 Chertsey Court	22.5	22.5	0.00
J114	20 Chertsey Court	22.4	22.4	0.01
J115	21 Chertsey Court	20.9	20.9	0.00
J116	22 Chertsey Court	20.6	20.6	0.00
J117	23 Chertsey Court	20.4	20.4	-0.01
J118	1 Chertsey Court	19.9	19.9	-0.01
J119	2 Chertsey Court	20.0	20.0	0.00
J120	3 Chertsey Court	20.3	20.3	0.00
J121	4 Chertsey Court	20.5	20.5	0.00
J122	5 Chertsey Court	20.8	20.8	0.00
J123	6 Chertsey Court	20.9	20.9	0.00
J124	7 Chertsey Court	21.1	21.1	0.00
J125	8 Chertsey Court	21.4	21.4	0.01
J126	9 Chertsey Court	21.7	21.7	0.00
J127	10 Chertsey Court	21.9	21.9	0.01
J128	11 Chertsey Court	22.0	22.0	0.01
J129	12 Chertsey Court	22.3	22.3	0.00
J130	13 Chertsey Court	22.1	22.1	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J131	14 Chertsey Court	21.8	21.8	0.00
J132	15 Chertsey Court	21.6	21.6	0.01
J133	16 Chertsey Court	21.5	21.5	0.00
J134	17 Chertsey Court	21.3	21.3	0.00
J135	18 Chertsey Court	21.2	21.2	0.00
J136	19 Chertsey Court	21.1	21.1	0.00
J137	20 Chertsey Court	21.0	21.0	0.00
J138	21 Chertsey Court	19.8	19.8	-0.01
J139	22 Chertsey Court	19.6	19.6	-0.01
J140	23 Chertsey Court	19.4	19.4	-0.01
J141		24.2	24.2	0.00
J142		24.0	24.0	0.00
J143		23.8	23.8	0.00
J144		23.7	23.7	0.00
J145		23.7	23.7	0.00
J146		23.5	23.5	0.00
J147		22.6	22.6	0.00
J148		22.6	22.6	0.00
J149		23.6	23.6	0.00
J150		23.4	23.4	0.00
J151		23.3	23.3	0.01
J152		23.1	23.1	0.00
J153		23.1	23.1	0.00
J154		23.0	23.0	0.00
J155		22.1	22.1	0.00
J156		22.0	22.0	0.00
J157		22.3	22.3	0.00
J158		22.1	22.1	0.00
J159		22.0	22.0	0.00
J160		21.8	21.8	0.00
J161		21.8	21.8	0.00
J162		21.7	21.7	0.00
J163		20.8	20.8	0.00
J164		20.8	20.8	0.00
J165		20.9	20.9	0.00
J166		20.7	20.7	0.00
J167		20.6	20.6	0.00
J168		20.5	20.5	0.00
J169		20.5	20.5	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J170		20.4	20.4	0.00
J171		19.6	19.6	0.00
J172		19.5	19.5	0.00
J173		23.1	22.7	-0.37
J174		22.0	21.6	-0.37
J175		22.8	22.3	-0.55
J176		22.9	22.4	-0.56
J177		22.9	22.4	-0.50
J178		21.1	21.1	0.02
J179		20.7	20.7	0.06
J180		21.8	21.9	0.04

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may a slight difference in the calculated change in concentrations between the different scenarios

Table A6: Option 4, Scenario 4.1

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J1	179 Lower Richmond Road	30.9	31.2	0.23
J2	179 Lower Richmond Road	29.2	29.4	0.21
J3	179 Lower Richmond Road	25.6	25.8	0.17
J4	179 Lower Richmond Road	22.5	22.7	0.13
J5	189 Lower Richmond Road	28.7	28.9	0.21
J6	2 South Circular	31.2	31.3	0.17
J7	2a South Circular	28.8	29.0	0.17
J8	4 South Circular	31.4	31.5	0.17
J9	4a South Circular	28.7	28.8	0.16
J10	6 South Circular	29.4	29.6	0.15
J11	8 South Circular	29.4	29.6	0.15
J12	67 Shalstone Road	30.3	30.5	0.19
J13	1 Lower Richmond Road	36.3	36.6	0.30
J14	2 Lower Richmond Road	35.3	35.6	0.31
J15	3 Lower Richmond Road	32.9	33.2	0.31
J16	4 Lower Richmond Road	31.3	31.6	0.32
J17	5 Lower Richmond Road	30.3	30.6	0.34
J18	6 Lower Richmond Road	29.7	30.0	0.39

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J19	7 Lower Richmond Road	29.1	29.6	0.45
J20	8 Lower Richmond Road	29.5	30.0	0.54
J21	9 Lower Richmond Road	29.6	30.2	0.53
J22	10 Lower Richmond Road	30.0	30.5	0.51
J23	11 Lower Richmond Road	30.0	30.5	0.46
J24	12 Lower Richmond Road	30.5	30.8	0.31
J25	13 Lower Richmond Road	29.6	29.8	0.24
J26	14 Lower Richmond Road	30.0	30.1	0.19
J27	15 Lower Richmond Road	29.7	29.8	0.19
J28	16 Lower Richmond Road	29.4	29.6	0.19
J29	17 Lower Richmond Road	29.1	29.3	0.19
J30	18 Lower Richmond Road	28.8	29.0	0.20
J31	19 Lower Richmond Road	28.4	28.6	0.20
J32	20 Lower Richmond Road	28.1	28.3	0.19
J33	21 Lower Richmond Road	27.6	27.8	0.18
J34	22 Lower Richmond Road	27.6	27.8	0.15
J35	23 Lower Richmond Road	26.8	26.9	0.18
J36	24 Lower Richmond Road	25.9	26.1	0.20
J37	25 Lower Richmond Road	25.2	25.4	0.20
J38	26 Lower Richmond Road	24.8	25.0	0.19
J39	27 Lower Richmond Road	24.4	24.6	0.20
J40	28 Lower Richmond Road	23.8	24.0	0.22
J41	29 Lower Richmond Road	23.9	24.1	0.21
J42	30 Lower Richmond Road	23.4	23.6	0.23
J43	31 Lower Richmond Road	23.2	23.4	0.23
J44	32 Lower Richmond Road	23.1	23.3	0.23
J45	33 Lower Richmond Road	23.2	23.5	0.24
J46	34 Lower Richmond Road	23.2	23.5	0.24
J47	35 Lower Richmond Road	22.8	23.0	0.27
J48	36 Lower Richmond Road	23.0	23.2	0.25
J49	1 Chertsey Court	22.6	23.0	0.44
J50	2 Chertsey Court	22.7	23.1	0.45
J51	3 Chertsey Court	23.1	23.6	0.46
J52	4 Chertsey Court	23.6	24.1	0.50
J53	5 Chertsey Court	24.5	25.0	0.53
J54	6 Chertsey Court	24.8	25.4	0.56
J55	7 Chertsey Court	25.4	26.0	0.57
J56	8 Chertsey Court	25.7	26.3	0.56
J57	9 Chertsey Court	26.3	26.8	0.56
J58	10 Chertsey Court	25.4	25.9	0.43
J59	11 Chertsey Court	25.1	25.4	0.36

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J60	12 Chertsey Court	26.0	26.3	0.34
J61	13 Chertsey Court	26.0	26.3	0.30
J62	14 Chertsey Court	25.4	25.7	0.28
J63	15 Chertsey Court	25.1	25.3	0.27
J64	16 Chertsey Court	24.8	25.0	0.26
J65	17 Chertsey Court	24.6	24.8	0.25
J66	18 Chertsey Court	24.5	24.7	0.24
J67	19 Chertsey Court	24.3	24.5	0.24
J68	20 Chertsey Court	24.2	24.4	0.25
J69	21 Chertsey Court	22.5	22.9	0.46
J70	22 Chertsey Court	22.2	22.6	0.45
J71	23 Chertsey Court	21.8	22.2	0.44
J72	1 Chertsey Court	22.0	22.4	0.39
J73	2 Chertsey Court	22.1	22.5	0.40
J74	3 Chertsey Court	22.5	22.9	0.41
J75	4 Chertsey Court	22.9	23.4	0.44
J76	5 Chertsey Court	23.7	24.2	0.46
J77	6 Chertsey Court	24.0	24.5	0.48
J78	7 Chertsey Court	24.5	25.0	0.49
J79	8 Chertsey Court	24.8	25.3	0.49
J80	9 Chertsey Court	25.4	25.8	0.48
J81	10 Chertsey Court	24.8	25.2	0.40
J82	11 Chertsey Court	24.6	24.9	0.34
J83	12 Chertsey Court	25.4	25.7	0.31
J84	13 Chertsey Court	25.3	25.6	0.29
J85	14 Chertsey Court	24.8	25.0	0.26
J86	15 Chertsey Court	24.5	24.7	0.25
J87	16 Chertsey Court	24.2	24.4	0.25
J88	17 Chertsey Court	24.0	24.2	0.25
J89	18 Chertsey Court	23.8	24.1	0.24
J90	19 Chertsey Court	23.7	23.9	0.23
J91	20 Chertsey Court	23.6	23.8	0.23
J92	21 Chertsey Court	21.8	22.2	0.40
J93	22 Chertsey Court	21.6	21.9	0.40
J94	23 Chertsey Court	21.2	21.6	0.40
J95	1 Chertsey Court	20.8	21.1	0.30
J96	2 Chertsey Court	20.9	21.2	0.30
J97	3 Chertsey Court	21.2	21.5	0.31
J98	4 Chertsey Court	21.5	21.8	0.32
J99	5 Chertsey Court	22.1	22.4	0.34
J100	6 Chertsey Court	22.3	22.6	0.34

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J101	7 Chertsey Court	22.6	23.0	0.34
J102	8 Chertsey Court	22.9	23.3	0.34
J103	9 Chertsey Court	23.4	23.7	0.34
J104	10 Chertsey Court	23.4	23.7	0.32
J105	11 Chertsey Court	23.3	23.6	0.29
J106	12 Chertsey Court	23.8	24.1	0.28
J107	13 Chertsey Court	23.7	24.0	0.25
J108	14 Chertsey Court	23.3	23.5	0.24
J109	15 Chertsey Court	23.0	23.2	0.23
J110	16 Chertsey Court	22.8	23.0	0.23
J111	17 Chertsey Court	22.6	22.8	0.22
J112	18 Chertsey Court	22.5	22.7	0.22
J113	19 Chertsey Court	22.3	22.5	0.21
J114	20 Chertsey Court	22.2	22.4	0.22
J115	21 Chertsey Court	20.6	20.9	0.31
J116	22 Chertsey Court	20.3	20.6	0.31
J117	23 Chertsey Court	20.1	20.4	0.31
J118	1 Chertsey Court	19.7	19.9	0.23
J119	2 Chertsey Court	19.8	20.0	0.23
J120	3 Chertsey Court	20.0	20.3	0.23
J121	4 Chertsey Court	20.2	20.5	0.23
J122	5 Chertsey Court	20.6	20.8	0.23
J123	6 Chertsey Court	20.7	20.9	0.23
J124	7 Chertsey Court	20.9	21.1	0.22
J125	8 Chertsey Court	21.2	21.4	0.23
J126	9 Chertsey Court	21.5	21.7	0.23
J127	10 Chertsey Court	21.7	21.9	0.23
J128	11 Chertsey Court	21.8	22.0	0.23
J129	12 Chertsey Court	22.1	22.3	0.22
J130	13 Chertsey Court	21.9	22.1	0.21
J131	14 Chertsey Court	21.6	21.8	0.20
J132	15 Chertsey Court	21.4	21.6	0.21
J133	16 Chertsey Court	21.3	21.5	0.20
J134	17 Chertsey Court	21.1	21.3	0.19
J135	18 Chertsey Court	21.0	21.2	0.19
J136	19 Chertsey Court	20.9	21.1	0.19
J137	20 Chertsey Court	20.8	21.0	0.20
J138	21 Chertsey Court	19.5	19.8	0.22
J139	22 Chertsey Court	19.3	19.6	0.23
J140	23 Chertsey Court	19.2	19.4	0.25
J141		24.0	24.2	0.24

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J142		23.8	24.0	0.24
J143		23.6	23.8	0.24
J144		23.4	23.7	0.23
J145		23.4	23.7	0.23
J146		23.3	23.5	0.23
J147		22.4	22.6	0.23
J148		22.4	22.6	0.23
J149		23.4	23.6	0.23
J150		23.2	23.4	0.22
J151		23.0	23.3	0.23
J152		22.9	23.1	0.23
J153		22.9	23.1	0.22
J154		22.8	23.0	0.23
J155		21.8	22.1	0.22
J156		21.8	22.0	0.22
J157		22.1	22.3	0.21
J158		21.9	22.1	0.21
J159		21.8	22.0	0.20
J160		21.6	21.8	0.22
J161		21.6	21.8	0.21
J162		21.5	21.7	0.21
J163		20.6	20.8	0.21
J164		20.6	20.8	0.21
J165		20.7	20.9	0.19
J166		20.6	20.7	0.19
J167		20.4	20.6	0.19
J168		20.4	20.5	0.20
J169		20.3	20.5	0.20
J170		20.2	20.4	0.19
J171		19.4	19.6	0.19
J172		19.3	19.5	0.19
J173		22.6	22.7	0.17
J174		21.4	21.6	0.22
J175		22.1	22.3	0.12
J176		22.2	22.4	0.16
J177		22.2	22.4	0.22
J178		20.5	21.1	0.69
J179		19.9	20.7	0.80
J180		20.9	21.9	0.95

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may be a slight difference in the calculated change in concentrations between the different scenarios

Table A7: Option 4, Scenario 4.2

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J1	179 Lower Richmond Road	31.2	31.2	0.00
J2	179 Lower Richmond Road	29.4	29.4	0.00
J3	179 Lower Richmond Road	25.8	25.8	0.00
J4	179 Lower Richmond Road	22.7	22.7	0.00
J5	189 Lower Richmond Road	28.9	28.9	0.00
J6	2 South Circular	31.3	31.3	0.00
J7	2a South Circular	29.0	29.0	0.00
J8	4 South Circular	31.5	31.5	0.00
J9	4a South Circular	28.8	28.8	0.00
J10	6 South Circular	29.6	29.6	0.00
J11	8 South Circular	29.6	29.6	0.00
J12	67 Shalstone Road	30.5	30.5	0.00
J13	1 Lower Richmond Road	36.6	36.6	0.00
J14	2 Lower Richmond Road	35.6	35.6	0.00
J15	3 Lower Richmond Road	33.2	33.2	0.01
J16	4 Lower Richmond Road	31.6	31.6	0.01
J17	5 Lower Richmond Road	30.6	30.6	0.02
J18	6 Lower Richmond Road	30.0	30.0	0.03
J19	7 Lower Richmond Road	29.5	29.6	0.06
J20	8 Lower Richmond Road	29.9	30.0	0.08
J21	9 Lower Richmond Road	30.2	30.2	0.01
J22	10 Lower Richmond Road	30.6	30.5	-0.05
J23	11 Lower Richmond Road	30.6	30.5	-0.14
J24	12 Lower Richmond Road	31.1	30.8	-0.32
J25	13 Lower Richmond Road	30.1	29.8	-0.36
J26	14 Lower Richmond Road	30.6	30.1	-0.43
J27	15 Lower Richmond Road	30.3	29.8	-0.44
J28	16 Lower Richmond Road	30.0	29.6	-0.43

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J29	17 Lower Richmond Road	29.7	29.3	-0.43
J30	18 Lower Richmond Road	29.4	29.0	-0.42
J31	19 Lower Richmond Road	29.0	28.6	-0.41
J32	20 Lower Richmond Road	28.7	28.3	-0.41
J33	21 Lower Richmond Road	28.2	27.8	-0.41
J34	22 Lower Richmond Road	28.2	27.8	-0.46
J35	23 Lower Richmond Road	27.3	26.9	-0.40
J36	24 Lower Richmond Road	26.4	26.1	-0.34
J37	25 Lower Richmond Road	25.8	25.4	-0.31
J38	26 Lower Richmond Road	25.3	25.0	-0.31
J39	27 Lower Richmond Road	24.9	24.6	-0.30
J40	28 Lower Richmond Road	24.3	24.0	-0.24
J41	29 Lower Richmond Road	24.4	24.1	-0.27
J42	30 Lower Richmond Road	23.8	23.6	-0.23
J43	31 Lower Richmond Road	23.6	23.4	-0.23
J44	32 Lower Richmond Road	23.5	23.3	-0.22
J45	33 Lower Richmond Road	23.7	23.5	-0.24
J46	34 Lower Richmond Road	23.7	23.5	-0.24
J47	35 Lower Richmond Road	23.2	23.0	-0.20
J48	36 Lower Richmond Road	23.5	23.2	-0.23
J49	1 Chertsey Court	23.0	23.0	0.04
J50	2 Chertsey Court	23.1	23.1	0.04
J51	3 Chertsey Court	23.5	23.6	0.06
J52	4 Chertsey Court	24.0	24.1	0.08
J53	5 Chertsey Court	24.9	25.0	0.10
J54	6 Chertsey Court	25.3	25.4	0.12
J55	7 Chertsey Court	25.9	26.0	0.12
J56	8 Chertsey Court	26.2	26.3	0.12
J57	9 Chertsey Court	26.7	26.8	0.11
J58	10 Chertsey Court	25.8	25.9	0.06
J59	11 Chertsey Court	25.4	25.4	0.03
J60	12 Chertsey Court	26.3	26.3	0.02
J61	13 Chertsey Court	26.3	26.3	0.01
J62	14 Chertsey Court	25.7	25.7	0.01
J63	15 Chertsey Court	25.3	25.3	0.00
J64	16 Chertsey Court	25.0	25.0	0.01
J65	17 Chertsey Court	24.8	24.8	0.01
J66	18 Chertsey Court	24.7	24.7	0.00
J67	19 Chertsey Court	24.5	24.5	0.01

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J68	20 Chertsey Court	24.4	24.4	0.01
J69	21 Chertsey Court	22.9	22.9	0.04
J70	22 Chertsey Court	22.6	22.6	0.03
J71	23 Chertsey Court	22.2	22.2	0.02
J72	1 Chertsey Court	22.3	22.4	0.02
J73	2 Chertsey Court	22.5	22.5	0.03
J74	3 Chertsey Court	22.9	22.9	0.04
J75	4 Chertsey Court	23.3	23.4	0.05
J76	5 Chertsey Court	24.1	24.2	0.07
J77	6 Chertsey Court	24.4	24.5	0.08
J78	7 Chertsey Court	24.9	25.0	0.08
J79	8 Chertsey Court	25.2	25.3	0.09
J80	9 Chertsey Court	25.7	25.8	0.08
J81	10 Chertsey Court	25.2	25.2	0.05
J82	11 Chertsey Court	24.9	24.9	0.04
J83	12 Chertsey Court	25.6	25.7	0.02
J84	13 Chertsey Court	25.6	25.6	0.01
J85	14 Chertsey Court	25.0	25.0	0.00
J86	15 Chertsey Court	24.7	24.7	0.00
J87	16 Chertsey Court	24.4	24.4	0.01
J88	17 Chertsey Court	24.2	24.2	0.01
J89	18 Chertsey Court	24.1	24.1	0.01
J90	19 Chertsey Court	23.9	23.9	0.00
J91	20 Chertsey Court	23.8	23.8	0.00
J92	21 Chertsey Court	22.2	22.2	0.02
J93	22 Chertsey Court	21.9	21.9	0.02
J94	23 Chertsey Court	21.6	21.6	0.01
J95	1 Chertsey Court	21.1	21.1	0.00
J96	2 Chertsey Court	21.2	21.2	0.01
J97	3 Chertsey Court	21.5	21.5	0.01
J98	4 Chertsey Court	21.8	21.8	0.02
J99	5 Chertsey Court	22.4	22.4	0.03
J100	6 Chertsey Court	22.6	22.6	0.03
J101	7 Chertsey Court	22.9	23.0	0.04
J102	8 Chertsey Court	23.2	23.3	0.03
J103	9 Chertsey Court	23.7	23.7	0.03
J104	10 Chertsey Court	23.6	23.7	0.03
J105	11 Chertsey Court	23.6	23.6	0.02
J106	12 Chertsey Court	24.1	24.1	0.01

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J107	13 Chertsey Court	23.9	24.0	0.01
J108	14 Chertsey Court	23.5	23.5	0.01
J109	15 Chertsey Court	23.2	23.2	0.01
J110	16 Chertsey Court	23.0	23.0	0.01
J111	17 Chertsey Court	22.8	22.8	0.00
J112	18 Chertsey Court	22.7	22.7	0.00
J113	19 Chertsey Court	22.5	22.5	0.00
J114	20 Chertsey Court	22.4	22.4	0.01
J115	21 Chertsey Court	20.9	20.9	0.00
J116	22 Chertsey Court	20.6	20.6	0.00
J117	23 Chertsey Court	20.4	20.4	-0.01
J118	1 Chertsey Court	19.9	19.9	-0.01
J119	2 Chertsey Court	20.0	20.0	0.00
J120	3 Chertsey Court	20.3	20.3	0.00
J121	4 Chertsey Court	20.5	20.5	0.00
J122	5 Chertsey Court	20.8	20.8	0.00
J123	6 Chertsey Court	20.9	20.9	0.00
J124	7 Chertsey Court	21.1	21.1	0.00
J125	8 Chertsey Court	21.4	21.4	0.01
J126	9 Chertsey Court	21.7	21.7	0.00
J127	10 Chertsey Court	21.9	21.9	0.01
J128	11 Chertsey Court	22.0	22.0	0.01
J129	12 Chertsey Court	22.3	22.3	0.00
J130	13 Chertsey Court	22.1	22.1	0.00
J131	14 Chertsey Court	21.8	21.8	0.00
J132	15 Chertsey Court	21.6	21.6	0.01
J133	16 Chertsey Court	21.5	21.5	0.00
J134	17 Chertsey Court	21.3	21.3	0.00
J135	18 Chertsey Court	21.2	21.2	0.00
J136	19 Chertsey Court	21.1	21.1	0.00
J137	20 Chertsey Court	21.0	21.0	0.00
J138	21 Chertsey Court	19.8	19.8	-0.01
J139	22 Chertsey Court	19.6	19.6	-0.01
J140	23 Chertsey Court	19.4	19.4	-0.01
J141		24.2	24.2	0.00
J142		24.0	24.0	0.00
J143		23.8	23.8	0.00
J144		23.7	23.7	0.00
J145		23.7	23.7	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J146		23.5	23.5	0.00
J147		22.6	22.6	0.00
J148		22.6	22.6	0.00
J149		23.6	23.6	0.00
J150		23.4	23.4	0.00
J151		23.3	23.3	0.01
J152		23.1	23.1	0.00
J153		23.1	23.1	0.00
J154		23.0	23.0	0.00
J155		22.1	22.1	0.00
J156		22.0	22.0	0.00
J157		22.3	22.3	0.00
J158		22.1	22.1	0.00
J159		22.0	22.0	0.00
J160		21.8	21.8	0.00
J161		21.8	21.8	0.00
J162		21.7	21.7	0.00
J163		20.8	20.8	0.00
J164		20.8	20.8	0.00
J165		20.9	20.9	0.00
J166		20.7	20.7	0.00
J167		20.6	20.6	0.00
J168		20.5	20.5	0.00
J169		20.5	20.5	0.00
J170		20.4	20.4	0.00
J171		19.6	19.6	0.00
J172		19.5	19.5	0.00
J173		23.1	22.7	-0.37
J174		22.0	21.6	-0.37
J175		22.8	22.3	-0.55
J176		22.9	22.4	-0.56
J177		22.9	22.4	-0.50
J178		21.1	21.1	0.02
J179		20.7	20.7	0.06
J180		21.8	21.9	0.04

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may a slight difference in the calculated change in concentrations between the different scenarios

Table A8: Option 5, Scenario 5.1

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J1	179 Lower Richmond Road	30.9	31.1	0.19
J2	179 Lower Richmond Road	29.2	29.3	0.17
J3	179 Lower Richmond Road	25.6	25.7	0.13
J4	179 Lower Richmond Road	22.5	22.6	0.10
J5	189 Lower Richmond Road	28.7	28.8	0.18
J6	2 South Circular	31.2	31.3	0.11
J7	2a South Circular	28.8	28.9	0.11
J8	4 South Circular	31.4	31.5	0.11
J9	4a South Circular	28.7	28.8	0.10
J10	6 South Circular	29.4	29.6	0.11
J11	8 South Circular	29.4	29.6	0.11
J12	67 Shalstone Road	30.3	30.4	0.12
J13	1 Lower Richmond Road	36.3	36.4	0.08
J14	2 Lower Richmond Road	35.3	35.2	-0.06
J15	3 Lower Richmond Road	32.9	32.7	-0.18
J16	4 Lower Richmond Road	31.3	31.0	-0.32
J17	5 Lower Richmond Road	30.3	29.8	-0.46
J18	6 Lower Richmond Road	29.7	28.8	-0.85
J19	7 Lower Richmond Road	29.1	27.9	-1.18
J20	8 Lower Richmond Road	29.5	27.8	-1.68
J21	9 Lower Richmond Road	29.6	27.9	-1.76
J22	10 Lower Richmond Road	30.0	28.4	-1.57
J23	11 Lower Richmond Road	30.0	28.9	-1.07
J24	12 Lower Richmond Road	30.5	29.8	-0.72
J25	13 Lower Richmond Road	29.6	29.3	-0.24
J26	14 Lower Richmond Road	30.0	30.0	0.03
J27	15 Lower Richmond Road	29.7	29.9	0.27
J28	16 Lower Richmond Road	29.4	29.8	0.41
J29	17 Lower Richmond Road	29.1	29.6	0.49
J30	18 Lower Richmond Road	28.8	29.3	0.53
J31	19 Lower Richmond Road	28.4	29.0	0.55
J32	20 Lower Richmond Road	28.1	28.6	0.55
J33	21 Lower Richmond Road	27.6	28.2	0.55
J34	22 Lower Richmond Road	27.6	28.2	0.58
J35	23 Lower Richmond Road	26.8	27.3	0.56
J36	24 Lower Richmond Road	25.9	26.4	0.51
J37	25 Lower Richmond Road	25.2	25.7	0.49
J38	26 Lower Richmond Road	24.8	25.3	0.48
J39	27 Lower Richmond Road	24.4	24.9	0.48
J40	28 Lower Richmond Road	23.8	24.2	0.45
J41	29 Lower Richmond Road	23.9	24.4	0.47

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J42	30 Lower Richmond Road	23.4	23.8	0.45
J43	31 Lower Richmond Road	23.2	23.6	0.45
J44	32 Lower Richmond Road	23.1	23.5	0.43
J45	33 Lower Richmond Road	23.2	23.7	0.47
J46	34 Lower Richmond Road	23.2	23.7	0.47
J47	35 Lower Richmond Road	22.8	23.2	0.46
J48	36 Lower Richmond Road	23.0	23.5	0.48
J49	1 Chertsey Court	22.6	23.0	0.40
J50	2 Chertsey Court	22.7	23.1	0.41
J51	3 Chertsey Court	23.1	23.5	0.40
J52	4 Chertsey Court	23.6	24.0	0.43
J53	5 Chertsey Court	24.5	24.9	0.44
J54	6 Chertsey Court	24.8	25.3	0.46
J55	7 Chertsey Court	25.4	25.9	0.48
J56	8 Chertsey Court	25.7	26.2	0.50
J57	9 Chertsey Court	26.3	26.8	0.59
J58	10 Chertsey Court	25.4	26.0	0.60
J59	11 Chertsey Court	25.1	25.7	0.58
J60	12 Chertsey Court	26.0	26.6	0.64
J61	13 Chertsey Court	26.0	26.5	0.49
J62	14 Chertsey Court	25.4	25.8	0.39
J63	15 Chertsey Court	25.1	25.4	0.35
J64	16 Chertsey Court	24.8	25.1	0.32
J65	17 Chertsey Court	24.6	24.9	0.30
J66	18 Chertsey Court	24.5	24.7	0.28
J67	19 Chertsey Court	24.3	24.5	0.27
J68	20 Chertsey Court	24.2	24.4	0.27
J69	21 Chertsey Court	22.5	22.9	0.42
J70	22 Chertsey Court	22.2	22.6	0.42
J71	23 Chertsey Court	21.8	22.2	0.42
J72	1 Chertsey Court	22.0	22.3	0.36
J73	2 Chertsey Court	22.1	22.5	0.37
J74	3 Chertsey Court	22.5	22.9	0.36
J75	4 Chertsey Court	22.9	23.3	0.39
J76	5 Chertsey Court	23.7	24.1	0.40
J77	6 Chertsey Court	24.0	24.4	0.41
J78	7 Chertsey Court	24.5	24.9	0.43
J79	8 Chertsey Court	24.8	25.3	0.45
J80	9 Chertsey Court	25.4	25.9	0.51
J81	10 Chertsey Court	24.8	25.4	0.54
J82	11 Chertsey Court	24.6	25.1	0.52

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J83	12 Chertsey Court	25.4	25.9	0.57
J84	13 Chertsey Court	25.3	25.8	0.46
J85	14 Chertsey Court	24.8	25.2	0.37
J86	15 Chertsey Court	24.5	24.8	0.33
J87	16 Chertsey Court	24.2	24.5	0.30
J88	17 Chertsey Court	24.0	24.2	0.29
J89	18 Chertsey Court	23.8	24.1	0.27
J90	19 Chertsey Court	23.7	23.9	0.26
J91	20 Chertsey Court	23.6	23.8	0.26
J92	21 Chertsey Court	21.8	22.2	0.38
J93	22 Chertsey Court	21.6	21.9	0.38
J94	23 Chertsey Court	21.2	21.6	0.39
J95	1 Chertsey Court	20.8	21.1	0.29
J96	2 Chertsey Court	20.9	21.2	0.29
J97	3 Chertsey Court	21.2	21.5	0.29
J98	4 Chertsey Court	21.5	21.8	0.30
J99	5 Chertsey Court	22.1	22.4	0.31
J100	6 Chertsey Court	22.3	22.6	0.32
J101	7 Chertsey Court	22.6	22.9	0.32
J102	8 Chertsey Court	22.9	23.3	0.33
J103	9 Chertsey Court	23.4	23.7	0.37
J104	10 Chertsey Court	23.4	23.7	0.40
J105	11 Chertsey Court	23.3	23.7	0.40
J106	12 Chertsey Court	23.8	24.3	0.44
J107	13 Chertsey Court	23.7	24.1	0.37
J108	14 Chertsey Court	23.3	23.6	0.31
J109	15 Chertsey Court	23.0	23.3	0.29
J110	16 Chertsey Court	22.8	23.0	0.27
J111	17 Chertsey Court	22.6	22.8	0.26
J112	18 Chertsey Court	22.5	22.7	0.25
J113	19 Chertsey Court	22.3	22.5	0.23
J114	20 Chertsey Court	22.2	22.4	0.23
J115	21 Chertsey Court	20.6	20.9	0.30
J116	22 Chertsey Court	20.3	20.6	0.31
J117	23 Chertsey Court	20.1	20.4	0.31
J118	1 Chertsey Court	19.7	19.9	0.23
J119	2 Chertsey Court	19.8	20.0	0.23
J120	3 Chertsey Court	20.0	20.3	0.23
J121	4 Chertsey Court	20.2	20.4	0.22
J122	5 Chertsey Court	20.6	20.8	0.23
J123	6 Chertsey Court	20.7	20.9	0.23

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J124	7 Chertsey Court	20.9	21.1	0.22
J125	8 Chertsey Court	21.2	21.4	0.23
J126	9 Chertsey Court	21.5	21.7	0.24
J127	10 Chertsey Court	21.7	21.9	0.25
J128	11 Chertsey Court	21.8	22.1	0.27
J129	12 Chertsey Court	22.1	22.4	0.29
J130	13 Chertsey Court	21.9	22.2	0.27
J131	14 Chertsey Court	21.6	21.9	0.24
J132	15 Chertsey Court	21.4	21.7	0.24
J133	16 Chertsey Court	21.3	21.5	0.23
J134	17 Chertsey Court	21.1	21.4	0.22
J135	18 Chertsey Court	21.0	21.2	0.21
J136	19 Chertsey Court	20.9	21.1	0.20
J137	20 Chertsey Court	20.8	21.0	0.21
J138	21 Chertsey Court	19.5	19.8	0.23
J139	22 Chertsey Court	19.3	19.6	0.23
J140	23 Chertsey Court	19.2	19.4	0.26
J141		24.0	24.2	0.26
J142		23.8	24.1	0.25
J143		23.6	23.8	0.25
J144		23.4	23.7	0.24
J145		23.4	23.7	0.24
J146		23.3	23.5	0.23
J147		22.4	22.6	0.23
J148		22.4	22.6	0.23
J149		23.4	23.6	0.24
J150		23.2	23.5	0.24
J151		23.0	23.3	0.23
J152		22.9	23.1	0.23
J153		22.9	23.1	0.23
J154		22.8	23.0	0.23
J155		21.8	22.1	0.23
J156		21.8	22.0	0.23
J157		22.1	22.3	0.22
J158		21.9	22.1	0.22
J159		21.8	22.0	0.21
J160		21.6	21.8	0.22
J161		21.6	21.8	0.21
J162		21.5	21.7	0.21
J163		20.6	20.8	0.21
J164		20.6	20.8	0.21

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 Base	2027 With Development (with Junction Amendments)	Change: Baseline - With Development (with Junction Amendment)
J165		20.7	20.9	0.20
J166		20.6	20.7	0.19
J167		20.4	20.6	0.19
J168		20.4	20.5	0.20
J169		20.3	20.5	0.20
J170		20.2	20.4	0.19
J171		19.4	19.6	0.19
J172		19.3	19.5	0.19
J173		22.6	23.1	0.53
J174		21.4	22.0	0.59
J175		22.1	22.8	0.67
J176		22.2	22.9	0.72
J177		22.2	22.9	0.73
J178		20.5	21.2	0.70
J179		19.9	20.6	0.71
J180		20.9	21.7	0.81

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may be a slight difference in the calculated change in concentrations between the different scenarios

Table A8: Option 5, Scenario 5.2

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J1	179 Lower Richmond Road	31.2	31.1	-0.04
J2	179 Lower Richmond Road	29.4	29.3	-0.04
J3	179 Lower Richmond Road	25.8	25.7	-0.04
J4	179 Lower Richmond Road	22.7	22.6	-0.03
J5	189 Lower Richmond Road	28.9	28.8	-0.03
J6	2 South Circular	31.3	31.3	-0.06
J7	2a South Circular	29.0	28.9	-0.06
J8	4 South Circular	31.5	31.5	-0.06
J9	4a South Circular	28.8	28.8	-0.06
J10	6 South Circular	29.6	29.6	-0.04
J11	8 South Circular	29.6	29.6	-0.04
J12	67 Shalstone Road	30.5	30.4	-0.07
J13	1 Lower Richmond Road	36.6	36.4	-0.22
J14	2 Lower Richmond Road	35.6	35.2	-0.37
J15	3 Lower Richmond Road	33.2	32.7	-0.48

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J16	4 Lower Richmond Road	31.6	31.0	-0.63
J17	5 Lower Richmond Road	30.6	29.8	-0.78
J18	6 Lower Richmond Road	30.0	28.8	-1.21
J19	7 Lower Richmond Road	29.5	27.9	-1.57
J20	8 Lower Richmond Road	29.9	27.8	-2.14
J21	9 Lower Richmond Road	30.2	27.9	-2.28
J22	10 Lower Richmond Road	30.6	28.4	-2.13
J23	11 Lower Richmond Road	30.6	28.9	-1.67
J24	12 Lower Richmond Road	31.1	29.8	-1.35
J25	13 Lower Richmond Road	30.1	29.3	-0.84
J26	14 Lower Richmond Road	30.6	30.0	-0.59
J27	15 Lower Richmond Road	30.3	29.9	-0.36
J28	16 Lower Richmond Road	30.0	29.8	-0.21
J29	17 Lower Richmond Road	29.7	29.6	-0.13
J30	18 Lower Richmond Road	29.4	29.3	-0.09
J31	19 Lower Richmond Road	29.0	29.0	-0.06
J32	20 Lower Richmond Road	28.7	28.6	-0.05
J33	21 Lower Richmond Road	28.2	28.2	-0.04
J34	22 Lower Richmond Road	28.2	28.2	-0.03
J35	23 Lower Richmond Road	27.3	27.3	-0.02
J36	24 Lower Richmond Road	26.4	26.4	-0.03
J37	25 Lower Richmond Road	25.8	25.7	-0.02
J38	26 Lower Richmond Road	25.3	25.3	-0.02
J39	27 Lower Richmond Road	24.9	24.9	-0.02
J40	28 Lower Richmond Road	24.3	24.2	-0.01
J41	29 Lower Richmond Road	24.4	24.4	-0.01
J42	30 Lower Richmond Road	23.8	23.8	-0.01
J43	31 Lower Richmond Road	23.6	23.6	-0.01
J44	32 Lower Richmond Road	23.5	23.5	-0.02
J45	33 Lower Richmond Road	23.7	23.7	-0.01
J46	34 Lower Richmond Road	23.7	23.7	-0.01
J47	35 Lower Richmond Road	23.2	23.2	-0.01
J48	36 Lower Richmond Road	23.5	23.5	0.00
J49	1 Chertsey Court	23.0	23.0	0.00
J50	2 Chertsey Court	23.1	23.1	0.00
J51	3 Chertsey Court	23.5	23.5	0.00
J52	4 Chertsey Court	24.0	24.0	0.01
J53	5 Chertsey Court	24.9	24.9	0.01
J54	6 Chertsey Court	25.3	25.3	0.02
J55	7 Chertsey Court	25.9	25.9	0.03
J56	8 Chertsey Court	26.2	26.2	0.06

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J57	9 Chertsey Court	26.7	26.8	0.14
J58	10 Chertsey Court	25.8	26.0	0.23
J59	11 Chertsey Court	25.4	25.7	0.25
J60	12 Chertsey Court	26.3	26.6	0.32
J61	13 Chertsey Court	26.3	26.5	0.20
J62	14 Chertsey Court	25.7	25.8	0.12
J63	15 Chertsey Court	25.3	25.4	0.08
J64	16 Chertsey Court	25.0	25.1	0.07
J65	17 Chertsey Court	24.8	24.9	0.06
J66	18 Chertsey Court	24.7	24.7	0.04
J67	19 Chertsey Court	24.5	24.5	0.04
J68	20 Chertsey Court	24.4	24.4	0.03
J69	21 Chertsey Court	22.9	22.9	0.00
J70	22 Chertsey Court	22.6	22.6	0.00
J71	23 Chertsey Court	22.2	22.2	0.00
J72	1 Chertsey Court	22.3	22.3	-0.01
J73	2 Chertsey Court	22.5	22.5	0.00
J74	3 Chertsey Court	22.9	22.9	-0.01
J75	4 Chertsey Court	23.3	23.3	0.00
J76	5 Chertsey Court	24.1	24.1	0.01
J77	6 Chertsey Court	24.4	24.4	0.01
J78	7 Chertsey Court	24.9	24.9	0.02
J79	8 Chertsey Court	25.2	25.3	0.05
J80	9 Chertsey Court	25.7	25.9	0.11
J81	10 Chertsey Court	25.2	25.4	0.19
J82	11 Chertsey Court	24.9	25.1	0.22
J83	12 Chertsey Court	25.6	25.9	0.28
J84	13 Chertsey Court	25.6	25.8	0.18
J85	14 Chertsey Court	25.0	25.2	0.11
J86	15 Chertsey Court	24.7	24.8	0.08
J87	16 Chertsey Court	24.4	24.5	0.06
J88	17 Chertsey Court	24.2	24.2	0.05
J89	18 Chertsey Court	24.1	24.1	0.04
J90	19 Chertsey Court	23.9	23.9	0.03
J91	20 Chertsey Court	23.8	23.8	0.03
J92	21 Chertsey Court	22.2	22.2	0.00
J93	22 Chertsey Court	21.9	21.9	0.00
J94	23 Chertsey Court	21.6	21.6	0.00
J95	1 Chertsey Court	21.1	21.1	-0.01
J96	2 Chertsey Court	21.2	21.2	0.00
J97	3 Chertsey Court	21.5	21.5	-0.01

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J98	4 Chertsey Court	21.8	21.8	0.00
J99	5 Chertsey Court	22.4	22.4	0.00
J100	6 Chertsey Court	22.6	22.6	0.01
J101	7 Chertsey Court	22.9	22.9	0.02
J102	8 Chertsey Court	23.2	23.3	0.02
J103	9 Chertsey Court	23.7	23.7	0.06
J104	10 Chertsey Court	23.6	23.7	0.11
J105	11 Chertsey Court	23.6	23.7	0.13
J106	12 Chertsey Court	24.1	24.3	0.17
J107	13 Chertsey Court	23.9	24.1	0.13
J108	14 Chertsey Court	23.5	23.6	0.08
J109	15 Chertsey Court	23.2	23.3	0.07
J110	16 Chertsey Court	23.0	23.0	0.05
J111	17 Chertsey Court	22.8	22.8	0.04
J112	18 Chertsey Court	22.7	22.7	0.03
J113	19 Chertsey Court	22.5	22.5	0.02
J114	20 Chertsey Court	22.4	22.4	0.02
J115	21 Chertsey Court	20.9	20.9	-0.01
J116	22 Chertsey Court	20.6	20.6	0.00
J117	23 Chertsey Court	20.4	20.4	-0.01
J118	1 Chertsey Court	19.9	19.9	-0.01
J119	2 Chertsey Court	20.0	20.0	0.00
J120	3 Chertsey Court	20.3	20.3	0.00
J121	4 Chertsey Court	20.5	20.4	-0.01
J122	5 Chertsey Court	20.8	20.8	0.00
J123	6 Chertsey Court	20.9	20.9	0.00
J124	7 Chertsey Court	21.1	21.1	0.00
J125	8 Chertsey Court	21.4	21.4	0.01
J126	9 Chertsey Court	21.7	21.7	0.01
J127	10 Chertsey Court	21.9	21.9	0.03
J128	11 Chertsey Court	22.0	22.1	0.05
J129	12 Chertsey Court	22.3	22.4	0.07
J130	13 Chertsey Court	22.1	22.2	0.06
J131	14 Chertsey Court	21.8	21.9	0.04
J132	15 Chertsey Court	21.6	21.7	0.04
J133	16 Chertsey Court	21.5	21.5	0.03
J134	17 Chertsey Court	21.3	21.4	0.03
J135	18 Chertsey Court	21.2	21.2	0.02
J136	19 Chertsey Court	21.1	21.1	0.01
J137	20 Chertsey Court	21.0	21.0	0.01
J138	21 Chertsey Court	19.8	19.8	0.00

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J139	22 Chertsey Court	19.6	19.6	-0.01
J140	23 Chertsey Court	19.4	19.4	0.00
J141		24.2	24.2	0.02
J142		24.0	24.1	0.01
J143		23.8	23.8	0.01
J144		23.7	23.7	0.01
J145		23.7	23.7	0.01
J146		23.5	23.5	0.00
J147		22.6	22.6	0.00
J148		22.6	22.6	0.00
J149		23.6	23.6	0.01
J150		23.4	23.5	0.02
J151		23.3	23.3	0.01
J152		23.1	23.1	0.00
J153		23.1	23.1	0.01
J154		23.0	23.0	0.00
J155		22.1	22.1	0.01
J156		22.0	22.0	0.01
J157		22.3	22.3	0.01
J158		22.1	22.1	0.01
J159		22.0	22.0	0.01
J160		21.8	21.8	0.00
J161		21.8	21.8	0.00
J162		21.7	21.7	0.00
J163		20.8	20.8	0.00
J164		20.8	20.8	0.00
J165		20.9	20.9	0.01
J166		20.7	20.7	0.00
J167		20.6	20.6	0.00
J168		20.5	20.5	0.00
J169		20.5	20.5	0.00
J170		20.4	20.4	0.00
J171		19.6	19.6	0.00
J172		19.5	19.5	0.00
J173		23.1	23.1	-0.01
J174		22.0	22.0	0.00
J175		22.8	22.8	0.00
J176		22.9	22.9	0.00
J177		22.9	22.9	0.01
J178		21.1	21.2	0.03
J179		20.7	20.6	-0.03

ID	Receptor Name	Annual Mean NO ₂ Concentrations		
		2027 With Development (without Junction Amendments)	2027 With Development (with Junction Amendments)	Change
J180		21.8	21.7	-0.10

Note: For accuracy, the changes have been calculated using the exact output from the ADMS-Roads model rather than the rounded numbers within Table A1. This explains where there may be a slight difference in the calculated change in concentrations between the different scenarios