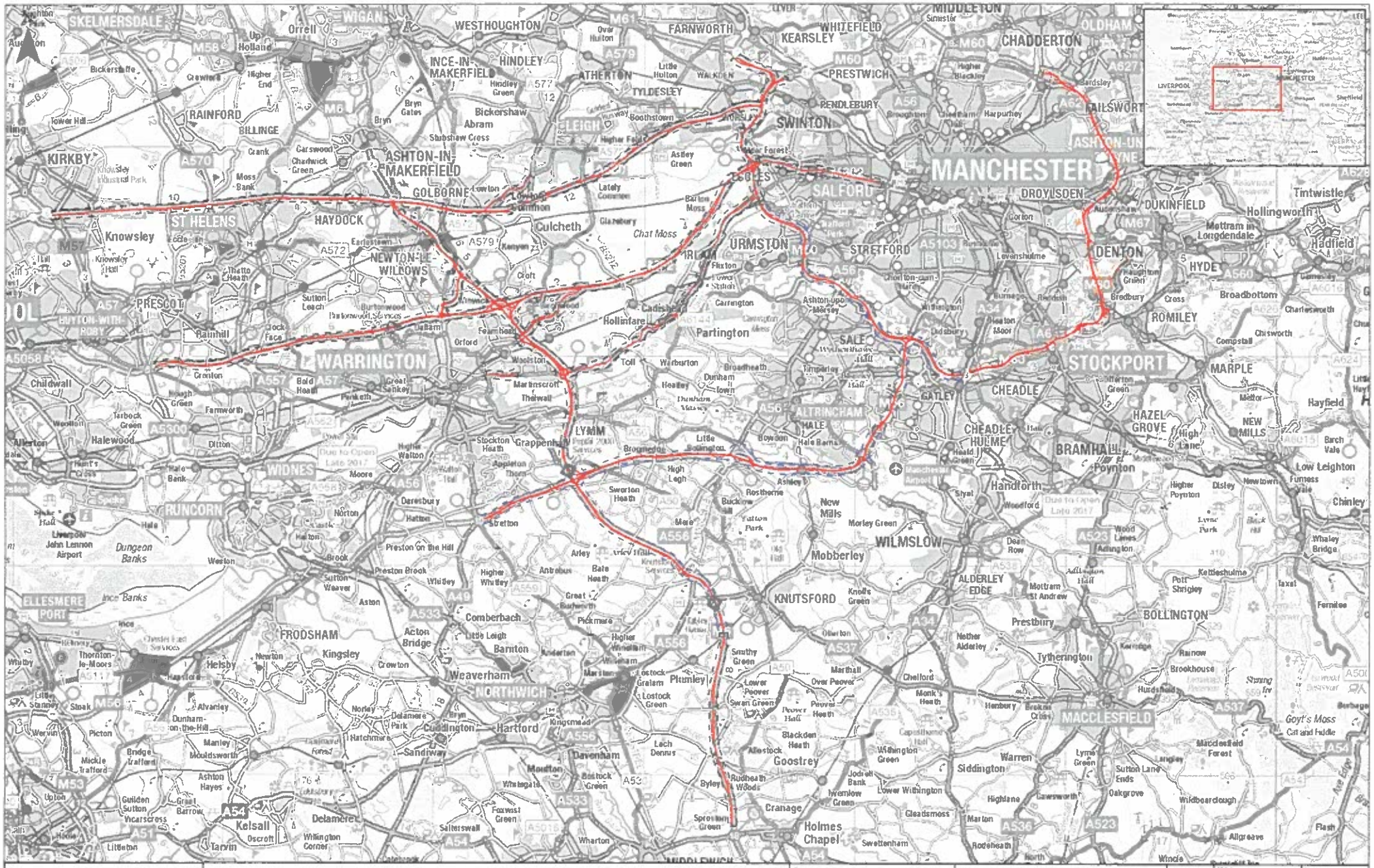
Appendix B.7. Figures provided by Aecom/WSP for the M62 and by the JAJV for the M60 Air Quality Assessments



0 3,000 6,000
Metres

Key

- Affected Road Network (ARN)
- M62 J10 to J12 Geographical Study Area
- M56 J6 to 8 Geographical Study Area
- M60 J24 to 4 Geographical Study Area

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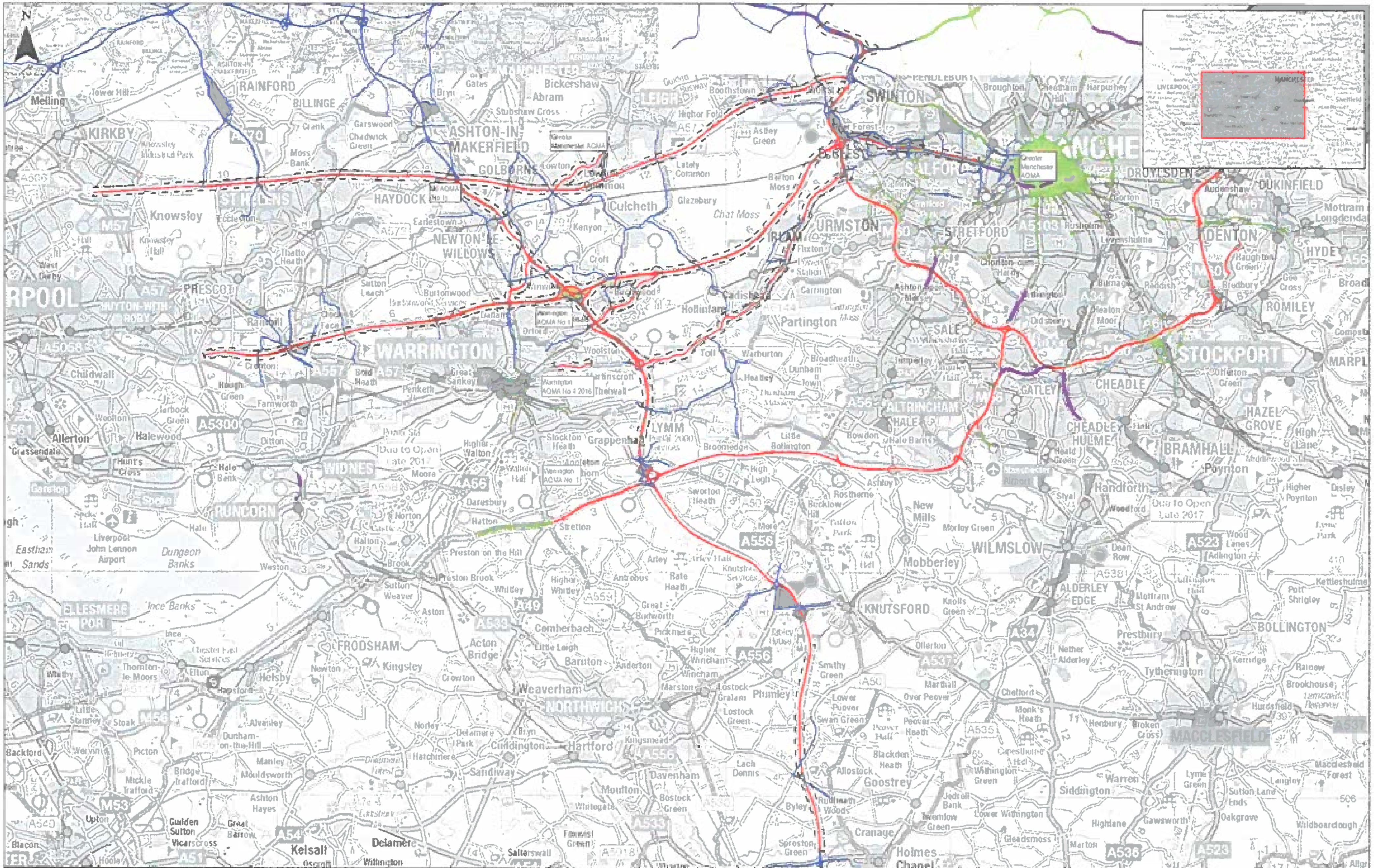
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.1
AIR QUALITY
STUDY AREA
MAP 1 OF 1

A3



Key

- Affected Road Network
- Modelled Road Network
- PCM Exceedances 2020
- M62 J10 to J12 Geographical Study Area
- Air Quality Management Areas

0 | 2,500 | 5,000 Metres

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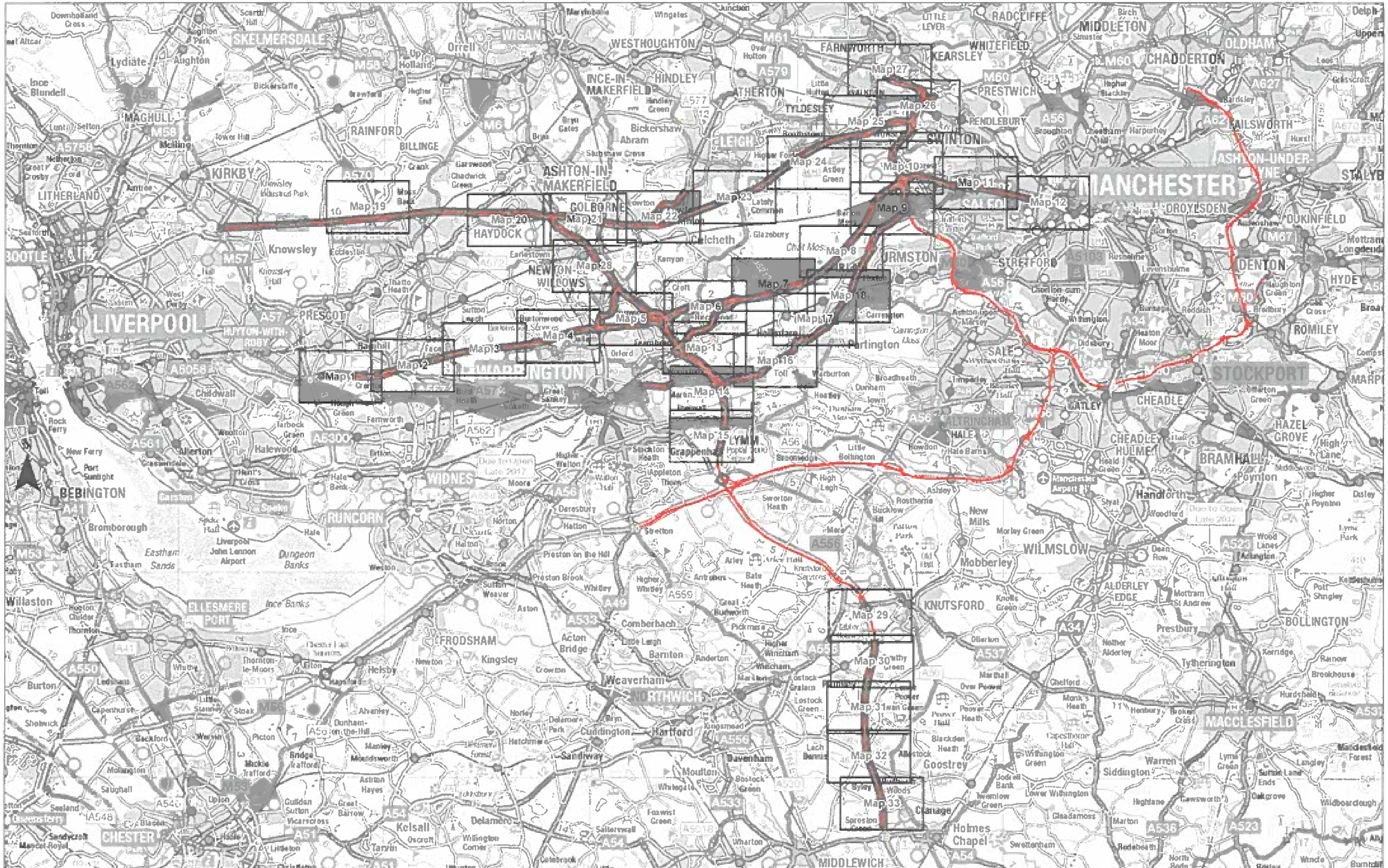
—M62 J10 - J12—

FIGURE 5.2
AIR QUALITY
GEOGRAPHICAL STUDY AREAS
MAP 1 OF 1



Key
Affected Road Network (ARN)
M62 J10 to J12 Air Quality Geographical Study Area

0 3,000 6,000
Metres

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M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
- MAP LOCATIONS AND STUDY AREA

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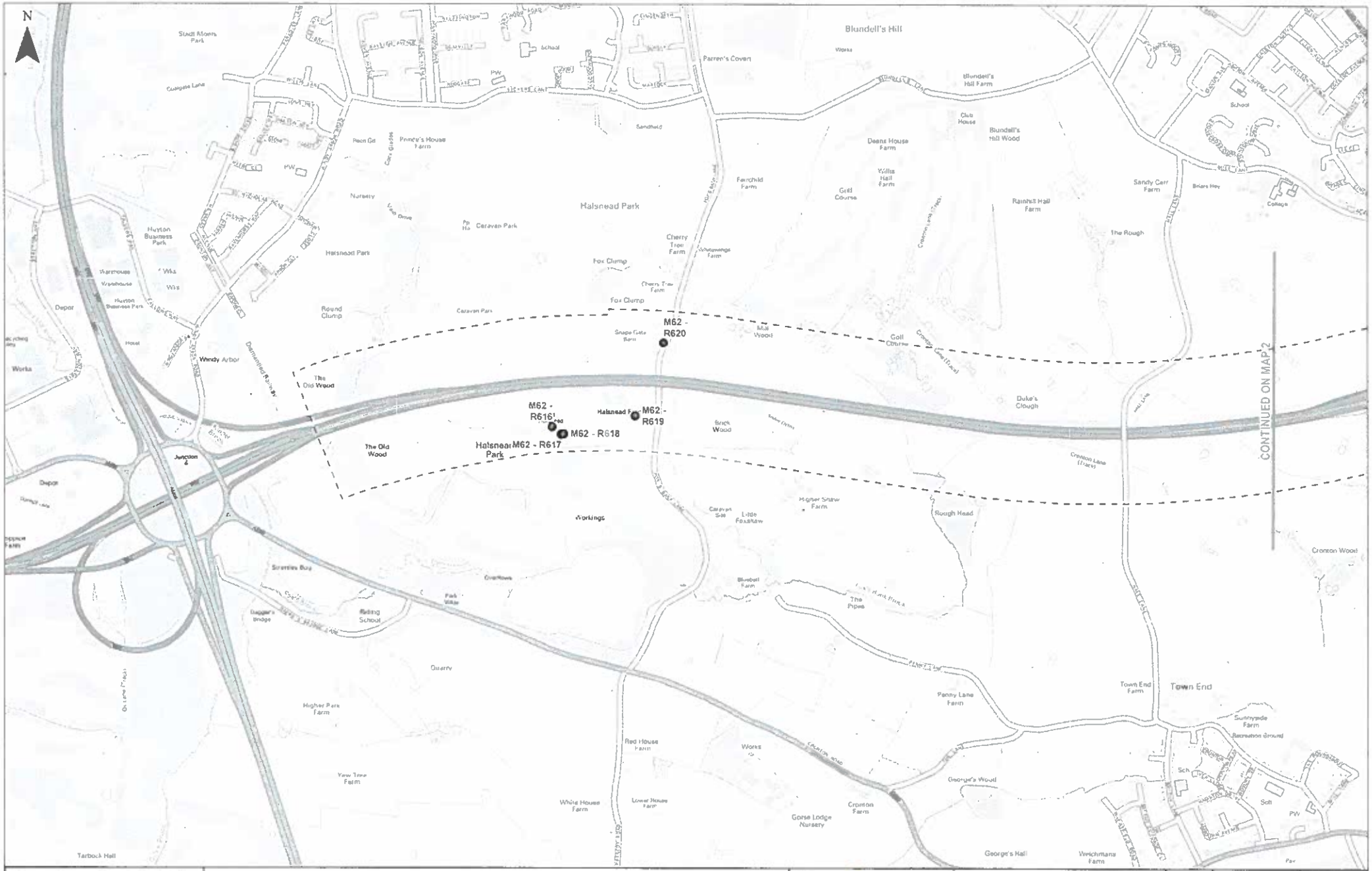

0 250 500
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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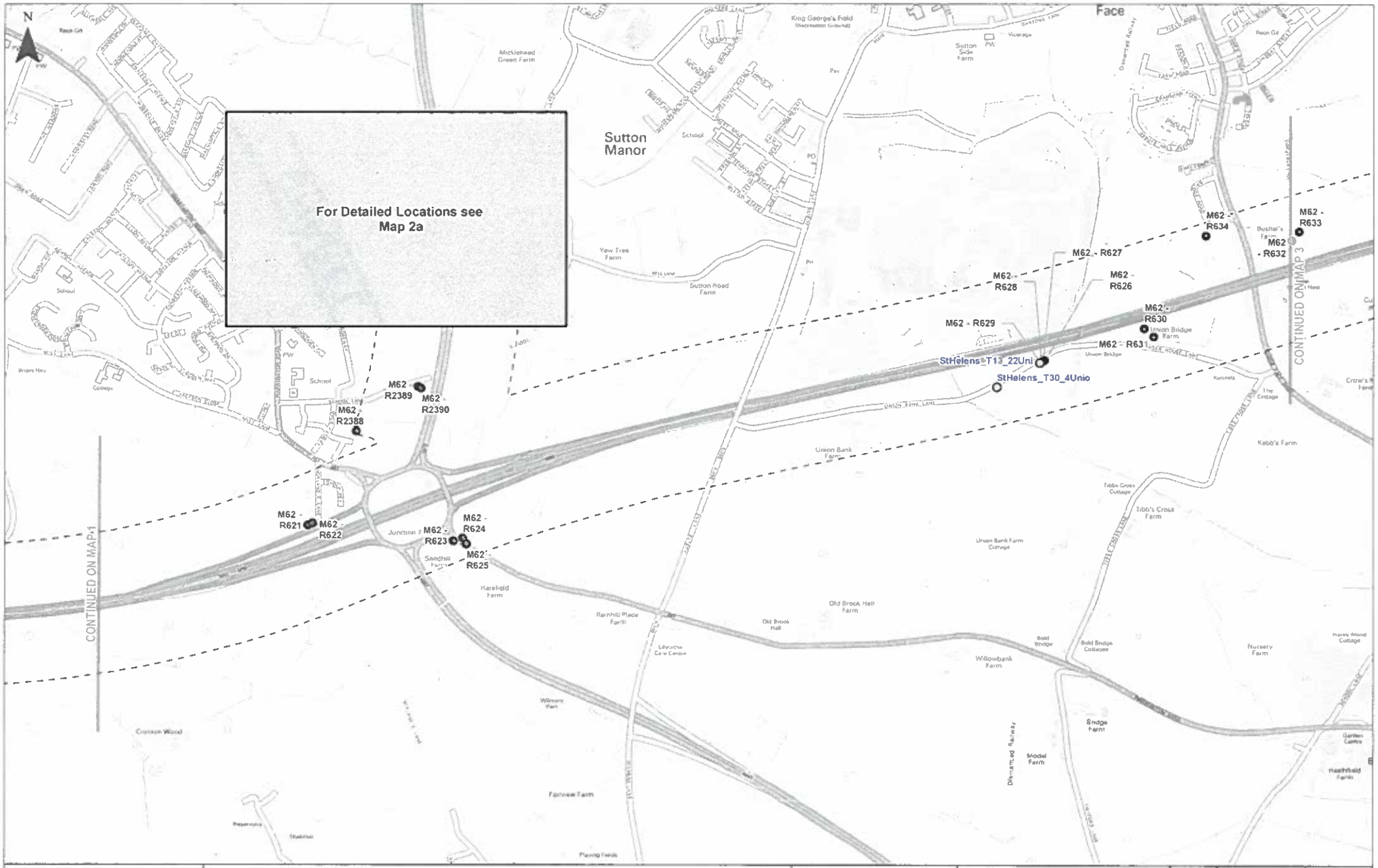
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 01 OF 33

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality
- Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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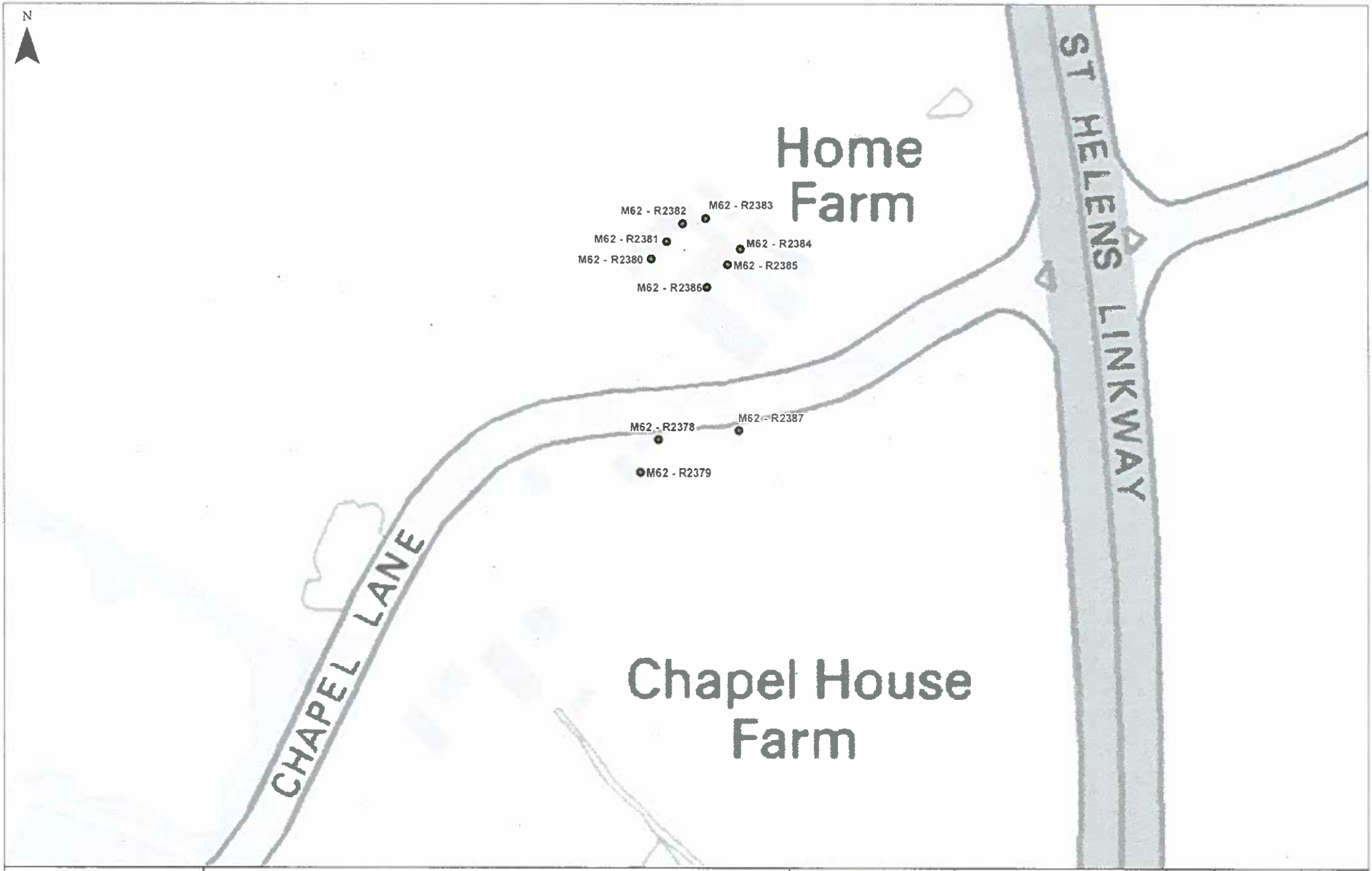
SMART MOTORWAY PROGRAMME
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 02 OF 33

A3



0 30 60
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 2A

A3

N
Lodge
Abbotsford
Maypole Farm
Park Cottage
Twinhall's Farm
Works
Recn Gd
Pav
PO
Kennels Cottage
Dog Kennel Plantation
Home Farm
Middle Field Farm
Thatched Cottage
Moat Market Farm
Highfield
Joy Lane Farm
Joy Lane
Longbury Lane
Labert Walk Plantation
Cement Dam Plantation
Plain Plantation
Burtonwood Airfield
M62 - R634
M62 - R633
M62 - R632
CONTINUED ON MAP 2
CONTINUED ON MAP 4
Big Wood Bait
Big Wood Bait
Booth's Wood
Old Hall Farm
Old Hall Plantation
Coney Green Wood
Crow's Nest Farm
Old Hall Farm
Kennels
The Cottage
Kabb's Farm
Duck Wood
Duck Wood
Lingley Mere
Heavenwater House
Lingley Mere Business Park
Hatch's Plantation
0
250
500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
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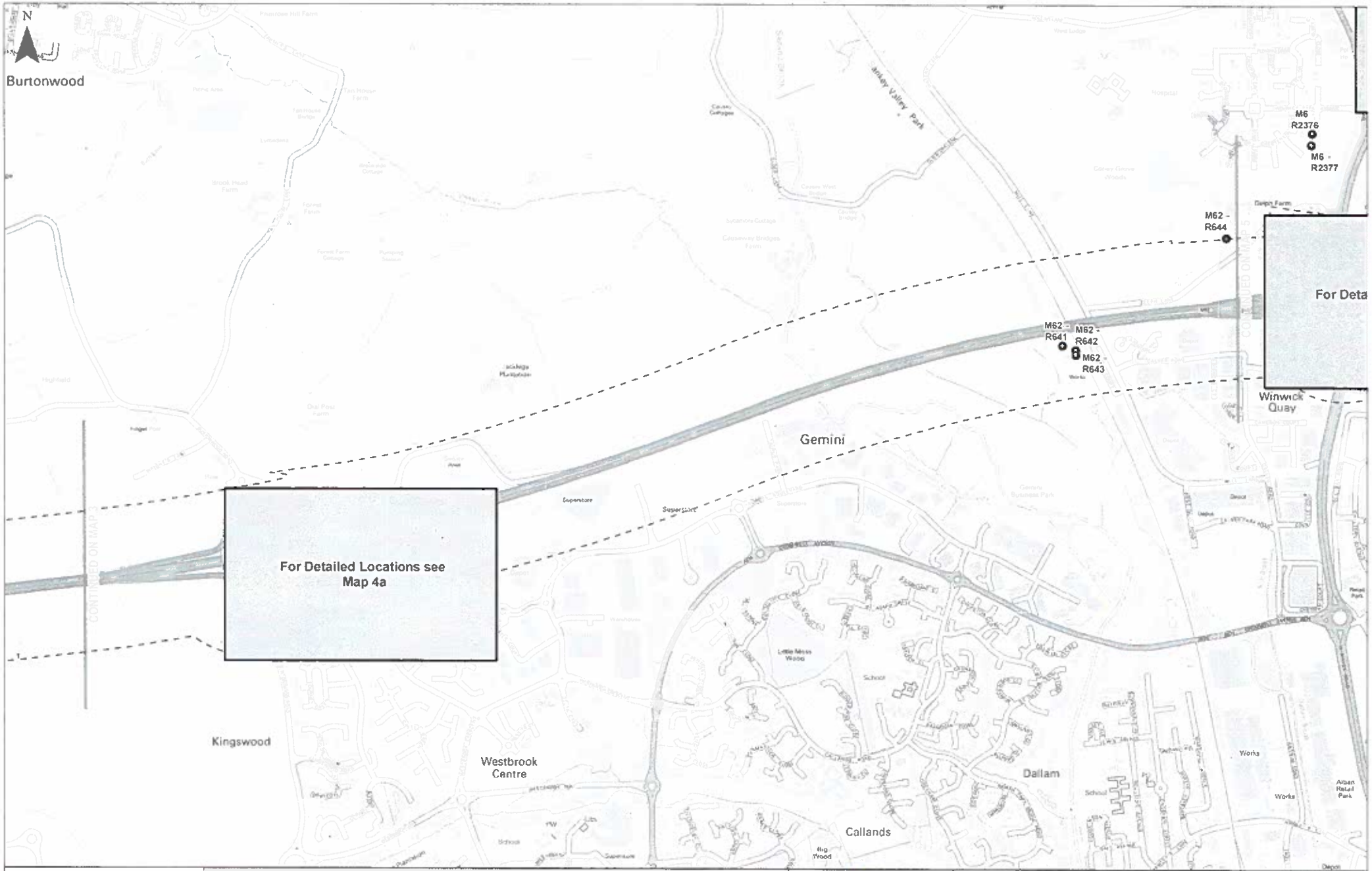
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 03 OF 33
A3



0 250 500
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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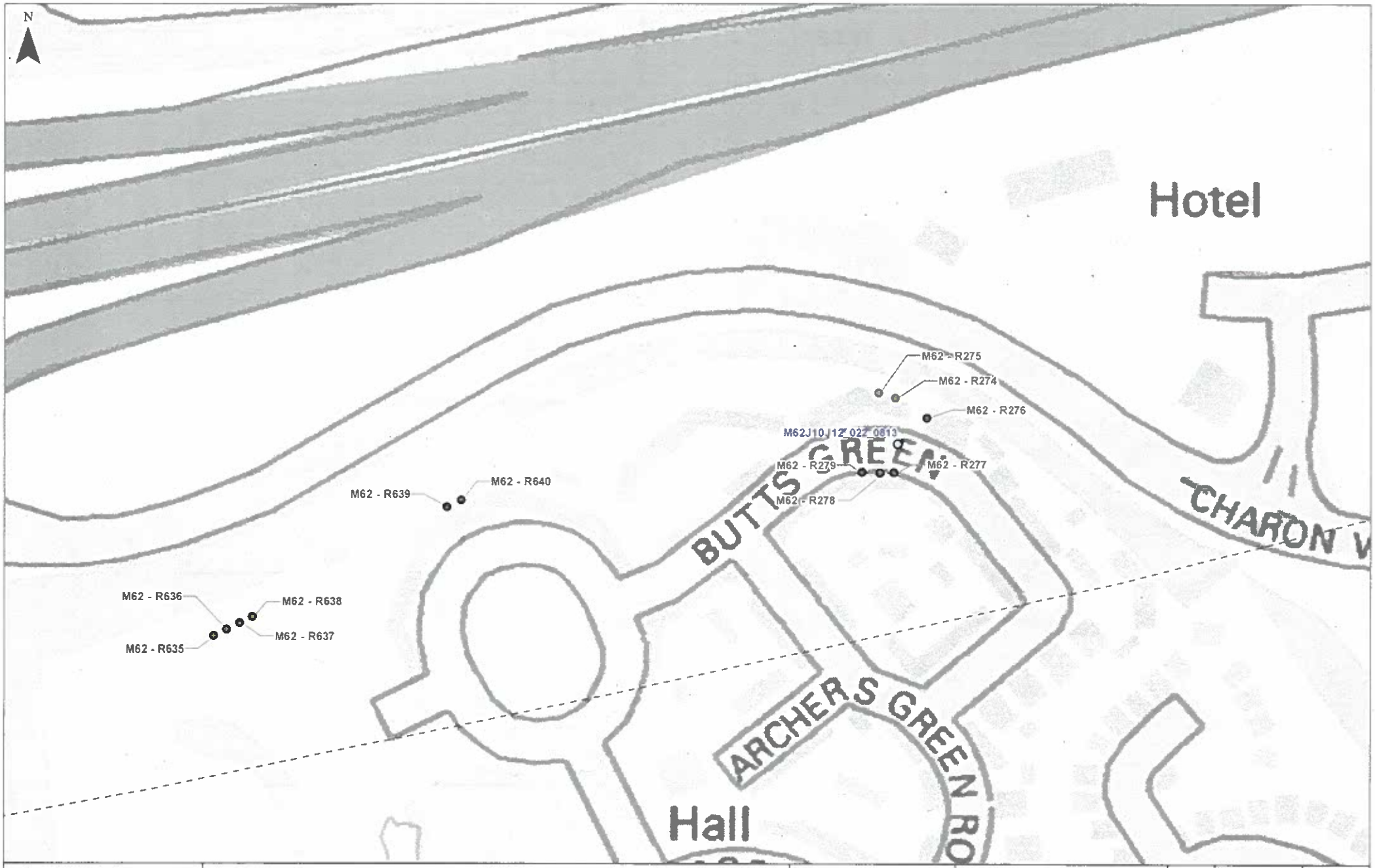
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 04 OF 33

A3



0 30 60
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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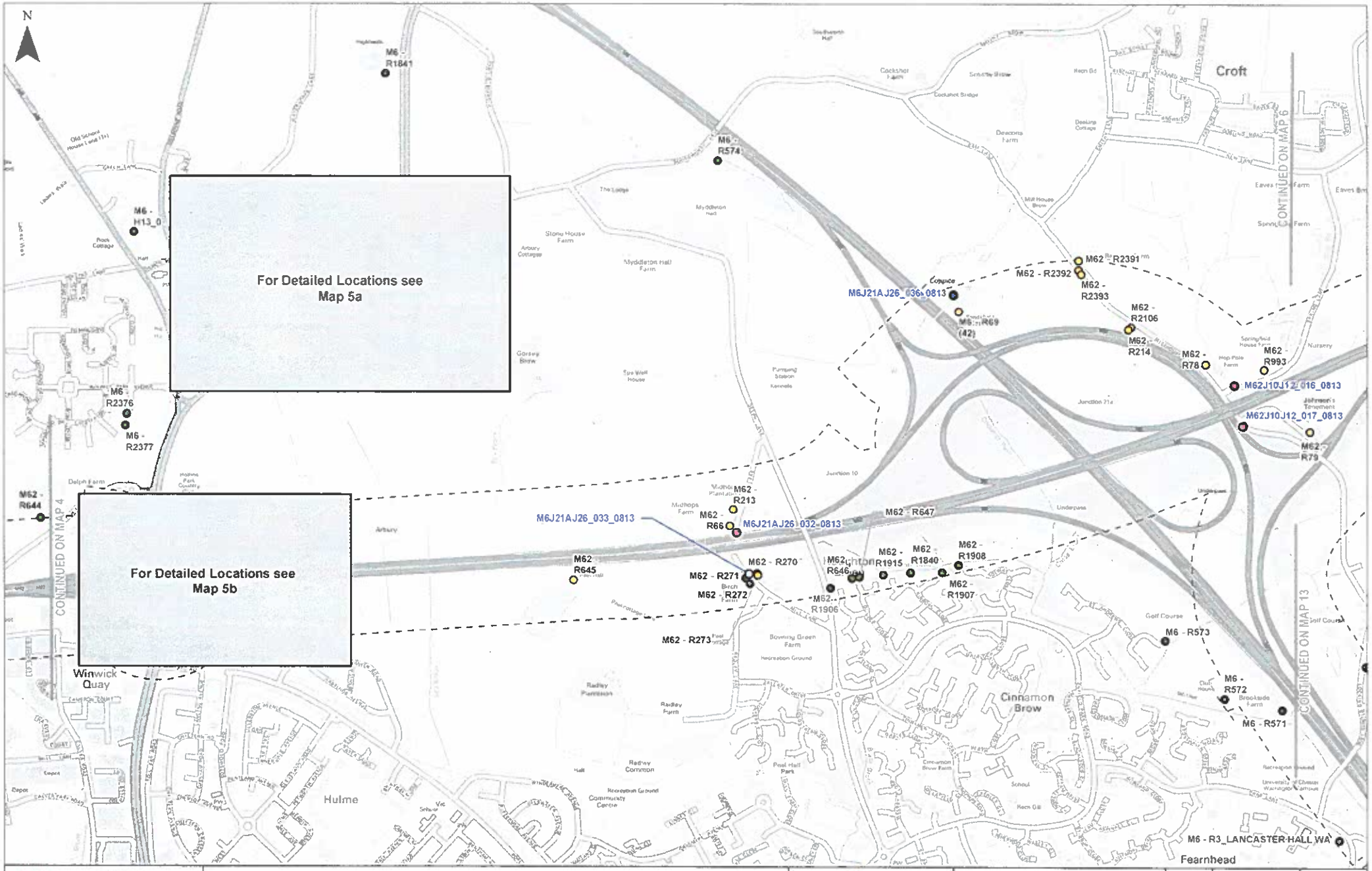
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 4A

A3


N
For Detailed Locations see Map 5a
For Detailed Locations see Map 5b
CONTINUED ON MAP 4
CONTINUED ON MAP 6
CONTINUED ON MAP 13
M6 - R1841
M6 - R574
M6 - H13_0
M6 - R2376
M6 - R2377
M62 - R644
M62 - R2391
M62 - R2392
M62 - R2393
M62 - R2106
M62 - R214
M62 - R78
M62 - R993
M62J10J12_016_0813
M62J10J12_017_0813
M62 - R79
M6J21AJ26_036_0813
M6 - R69 (42)
M62 - R647
M6J21AJ26_033_0813
M6J21AJ26_032_0813
M62 - R213
M62 - R66
M62 - R645
M62 - R270
M62 - R271
M62 - R272
M62 - R646
M62 - R1906
M62 - R1915
M62 - R1840
M62 - R1908
M62 - R1907
M62 - R273
M6 - R573
M6 - R572
M6 - R571
M6 - R3_LANCASTER HALL WA
Croft
Winwick Quay
Hulme
Cinnamon Brow
Fearnhead
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
highways england
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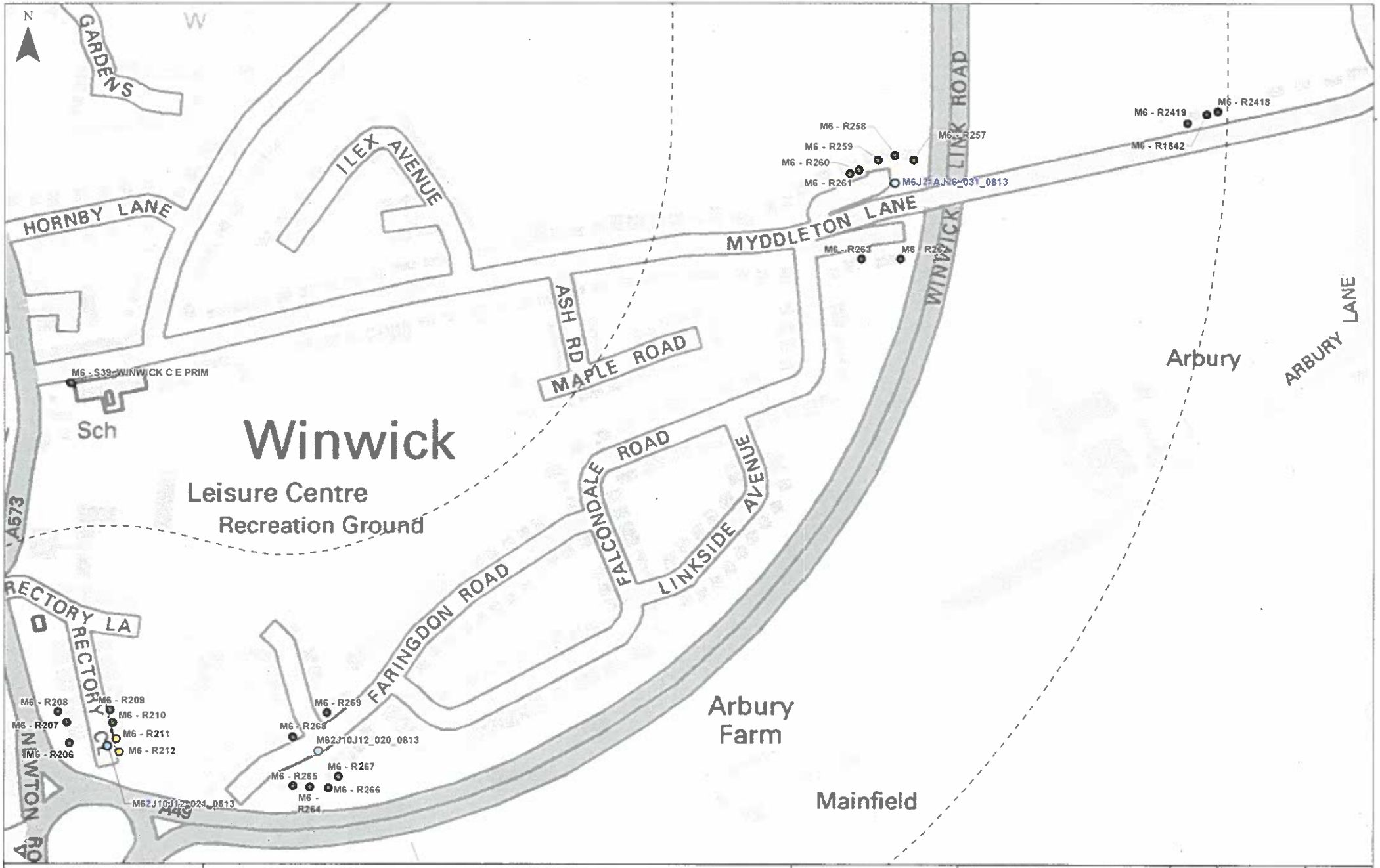
SMART MOTORWAY PROGRAMME
M62 J10 - J12
FIGURE 5.3
AIR QUALITY MODELLING
MAP 05 OF 33
A3



0 62.5 125
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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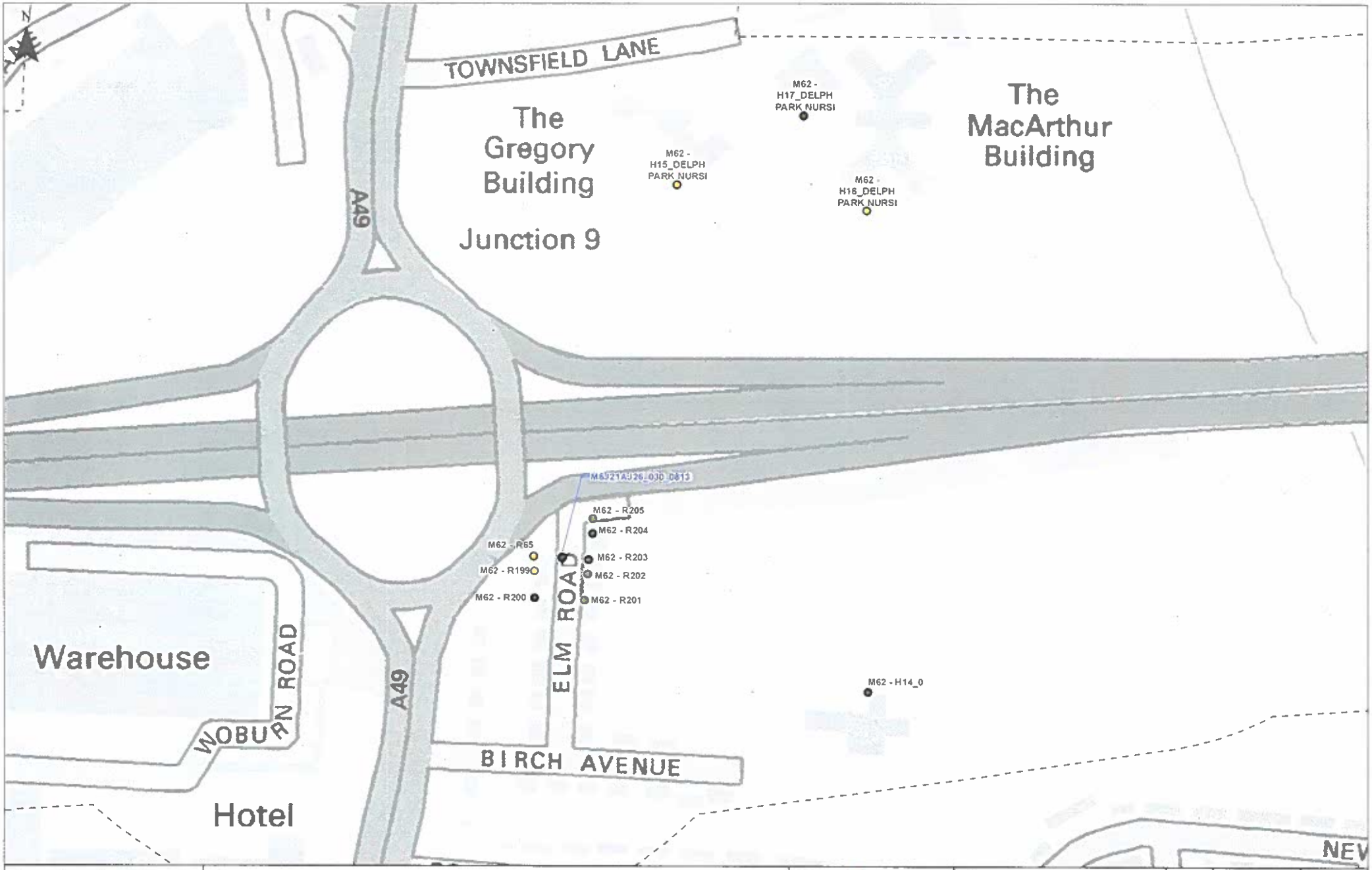
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 5A

A3



0 50 100
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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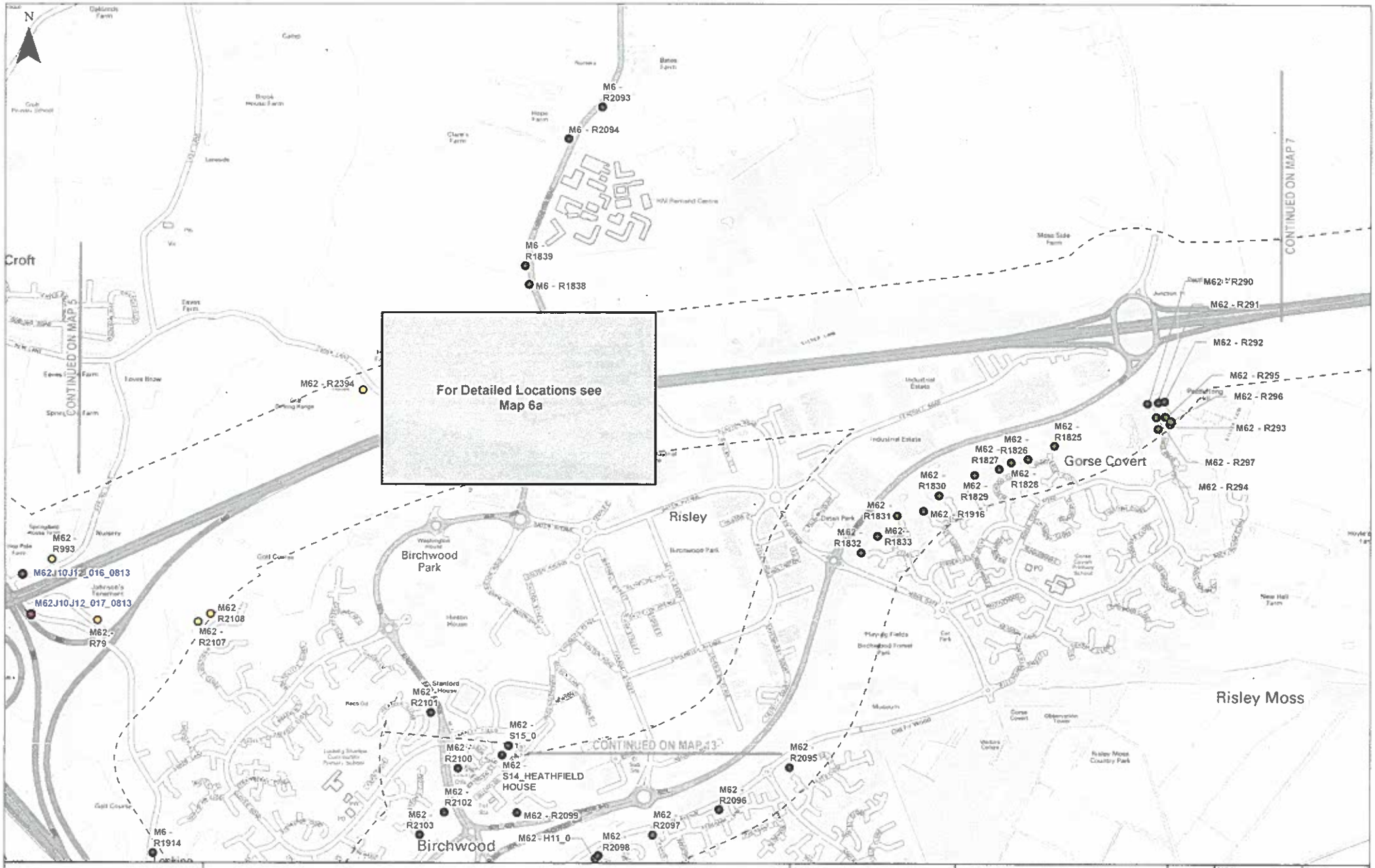
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 5B

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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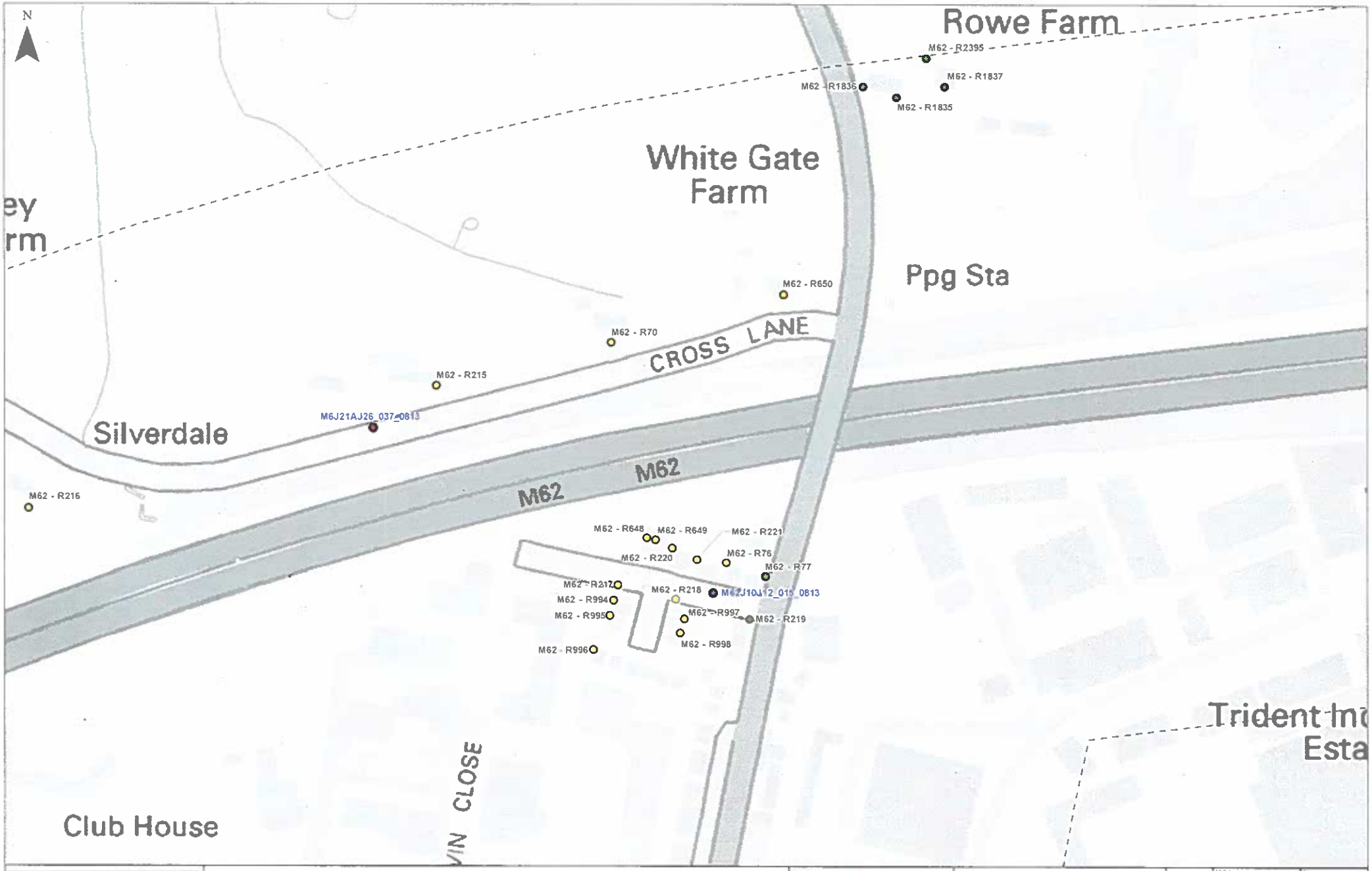
SMART MOTORWAY PROGRAMME
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 06 OF 33

A3



0 50 100
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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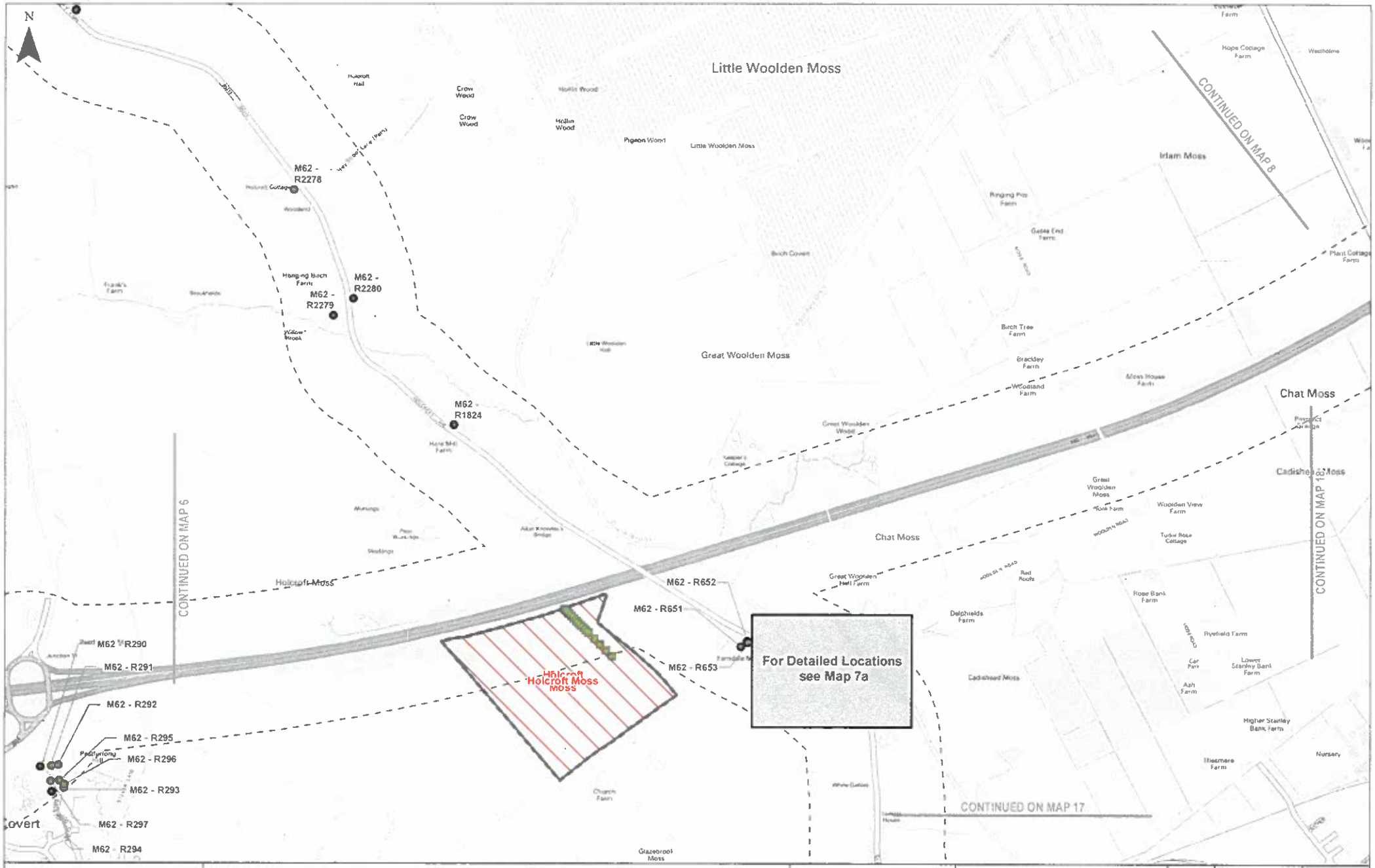
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 6A

A3



0 250 500
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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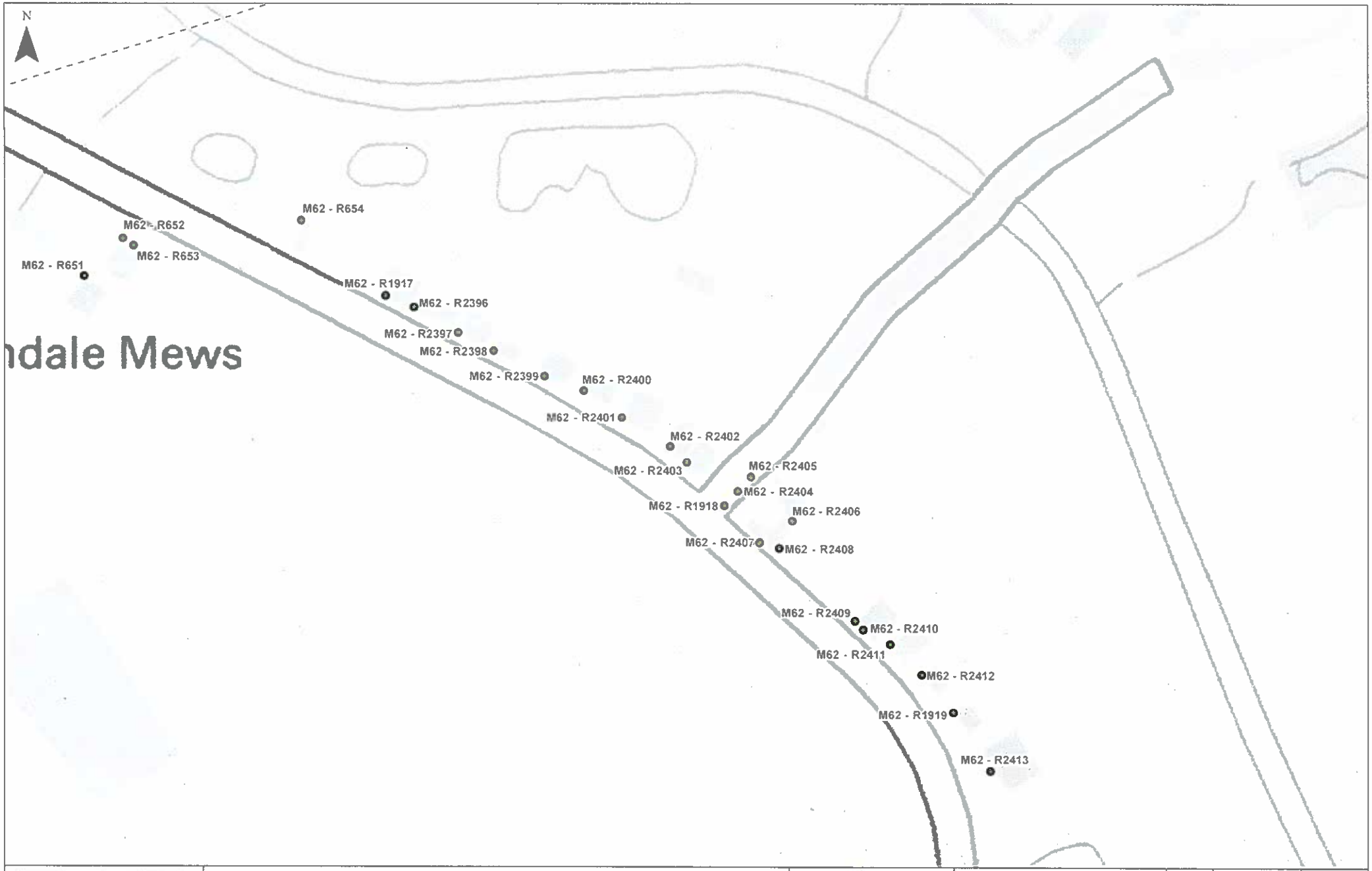
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 07 OF 33

A3



0 37.5 75
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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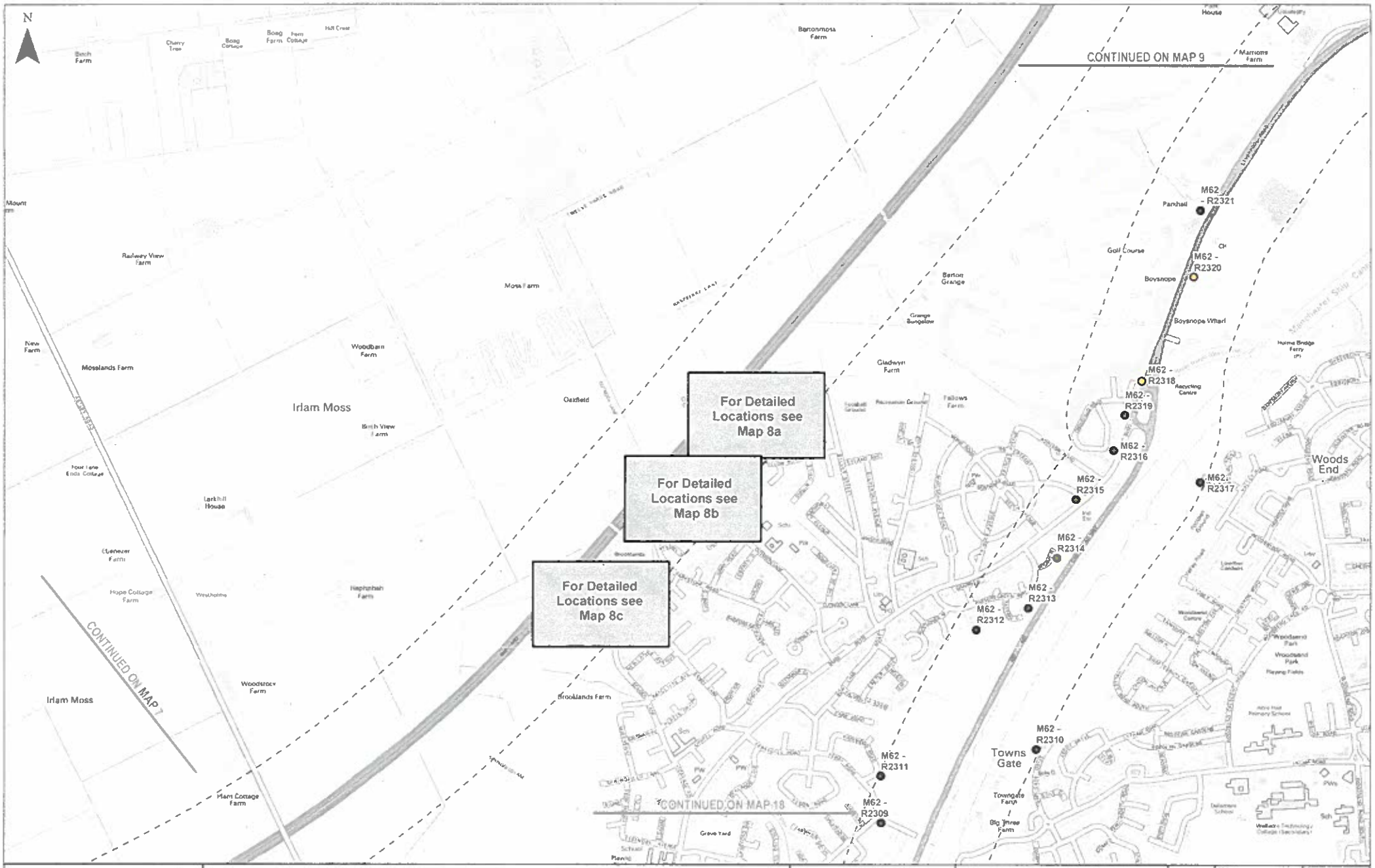
wsp

SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 7A

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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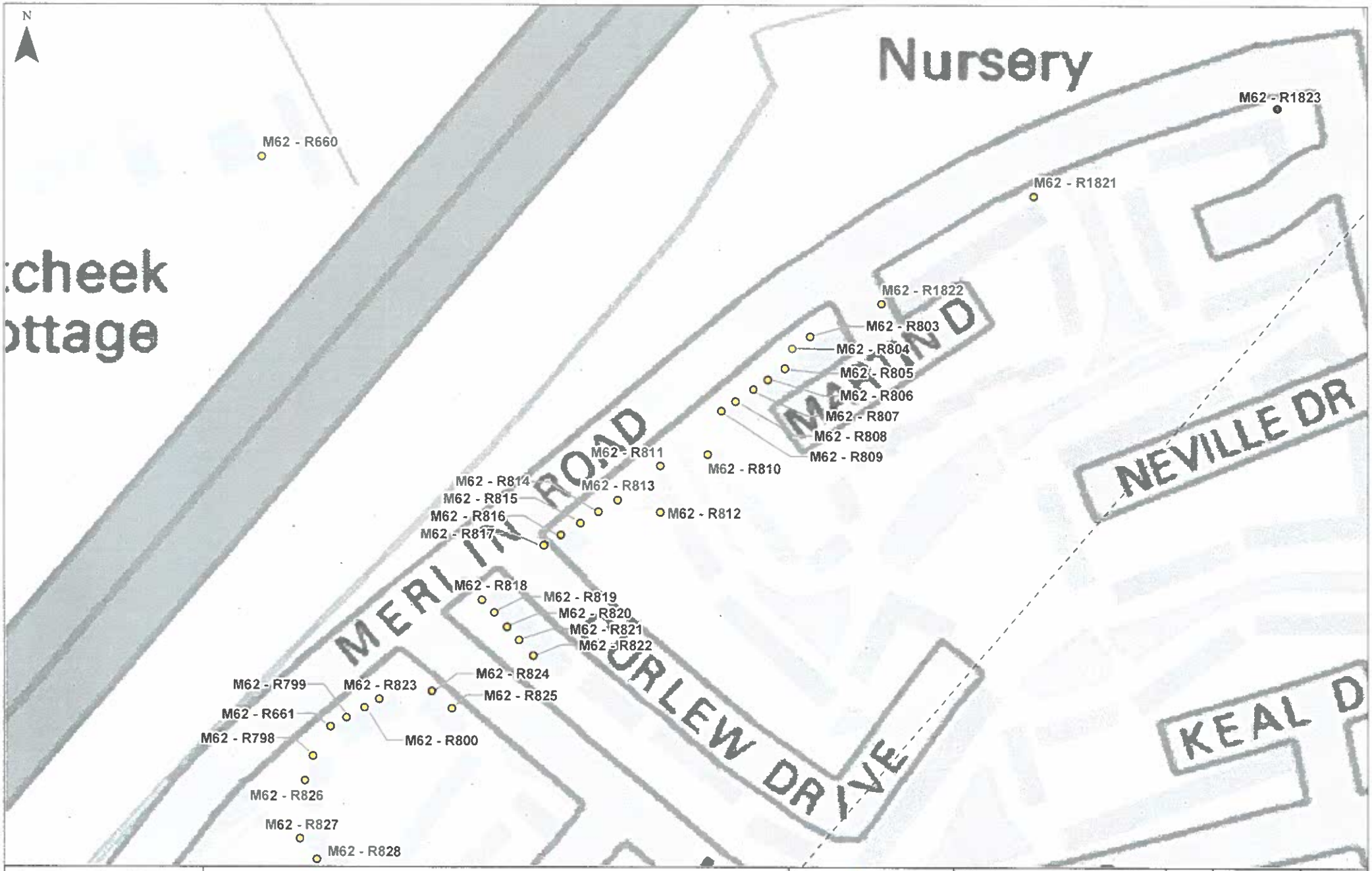
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 08 OF 33

A3



0 25 50
Metres

Key

M62 J10 to J12 Air Quality Geographical Study Area

Ramsar

Special Area of Conservation (SAC)

Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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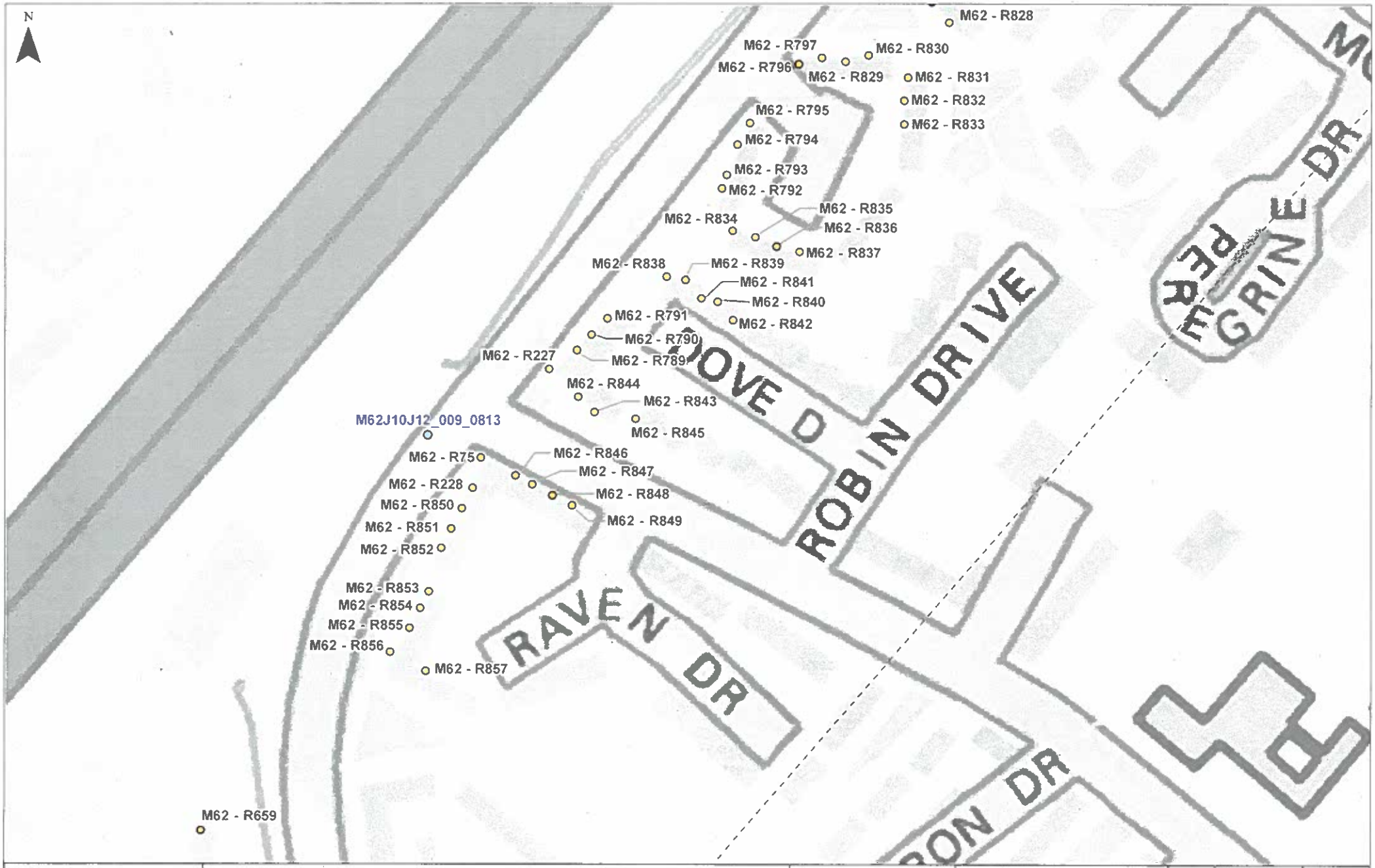
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 8A

A3



0 25 50
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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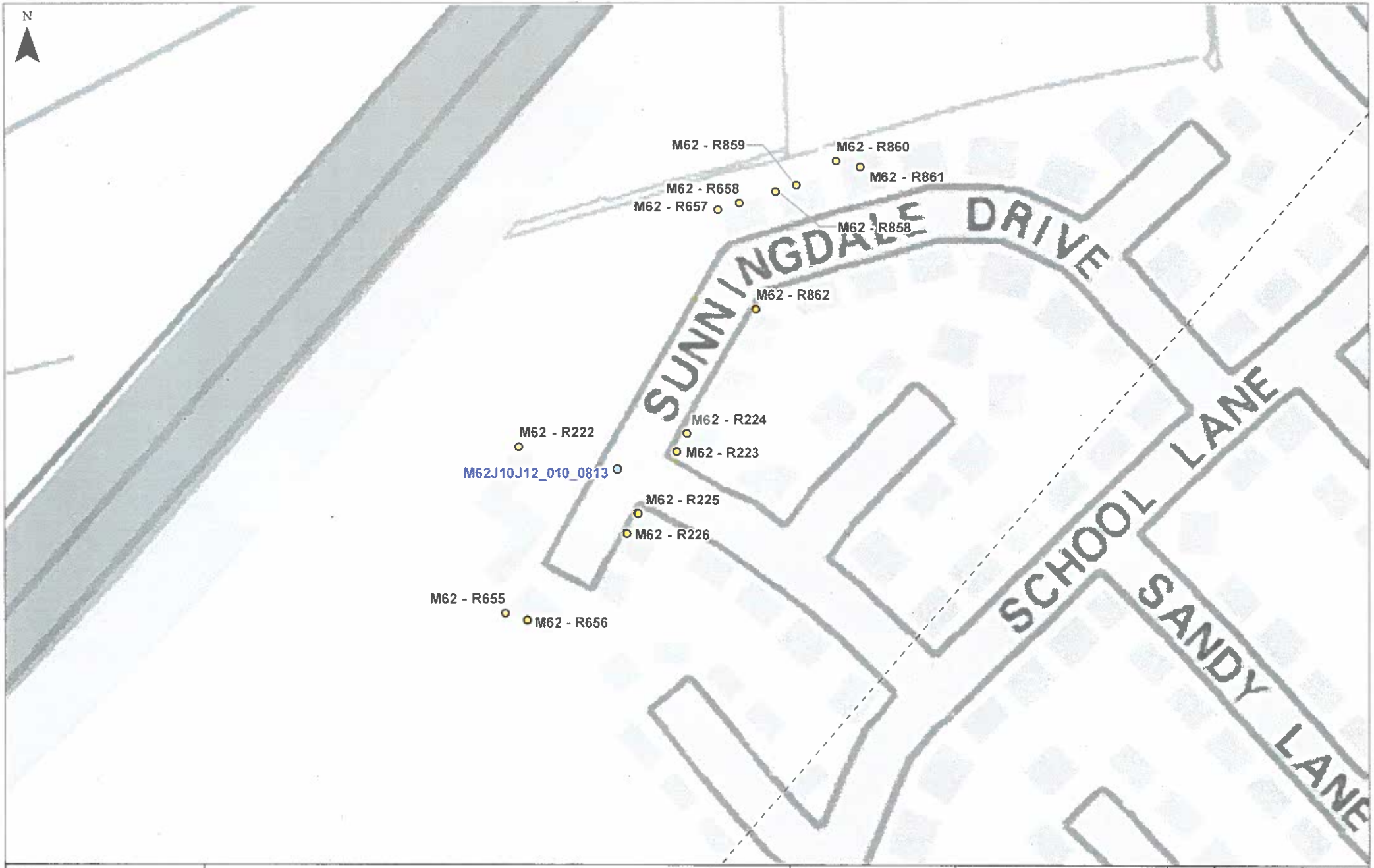
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 8B

Scale: 1:1,000
Checked By: DG
Approved By: TT
Original Size: A3



0 25 50
Metres

Key

M62 J10 to J12 Air Quality Geographical Study Area

Ramsar

Special Area of Conservation (SAC)

Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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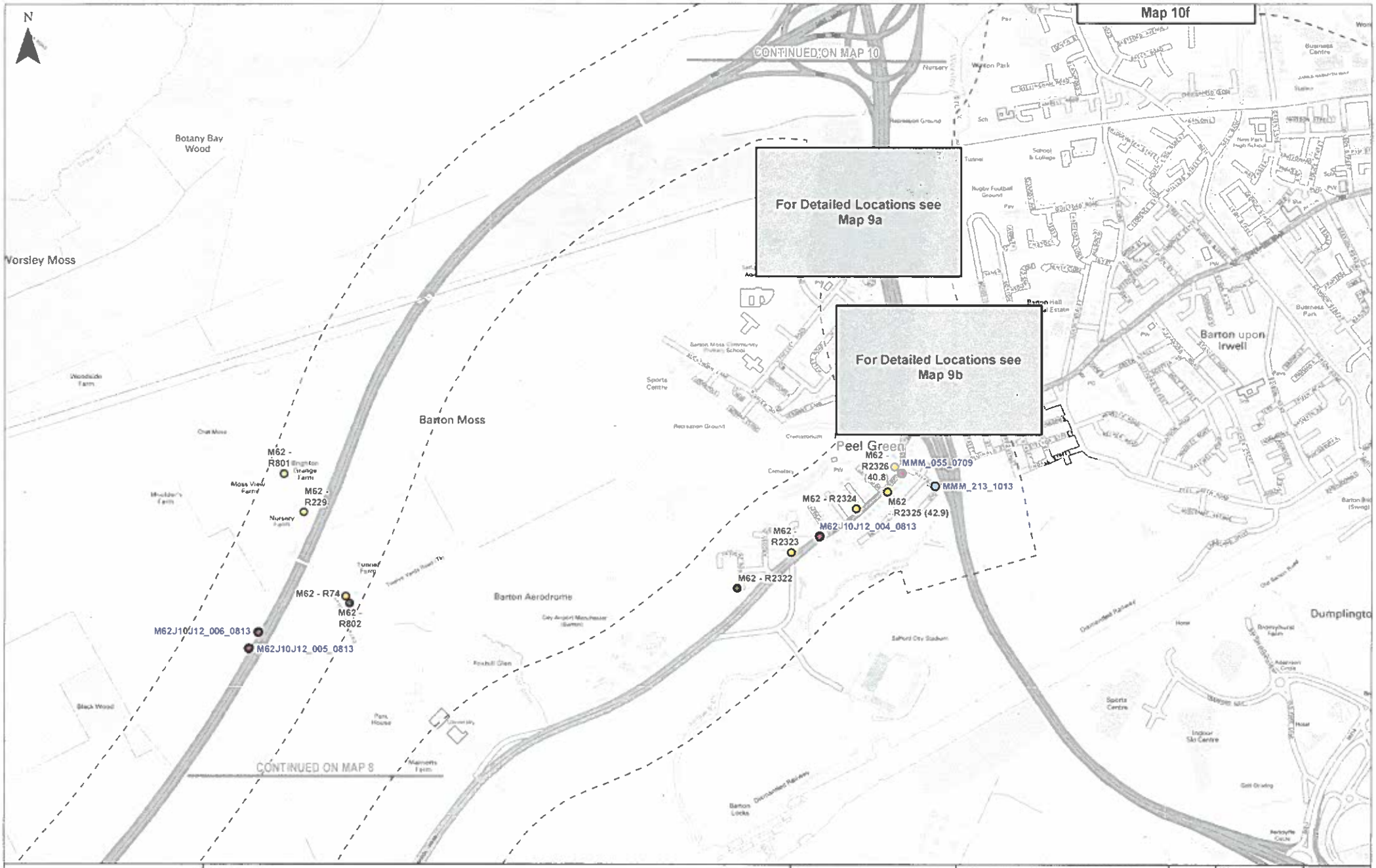
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 8C

A3


Map 10f
N
CONTINUED ON MAP 10
CONTINUED ON MAP 8
For Detailed Locations see Map 9a
For Detailed Locations see Map 9b
Botany Bay Wood
Worsley Moss
Barton Moss
Barton Aerodrome
Peel Green
Barton upon Irwell
Dumplingto
M62 - R801
M62 - R229
M62 - R74
M62 - R802
M62J10J12_006_0813
M62J10J12_005_0813
M62 - R2322
M62 - R2323
M62 - R2324
M62 - R2326 (40.8)
M62 R2325 (42.9)
M62J10J12_004_0813
MMM_055_0709
MMM_213_1013
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
highways england
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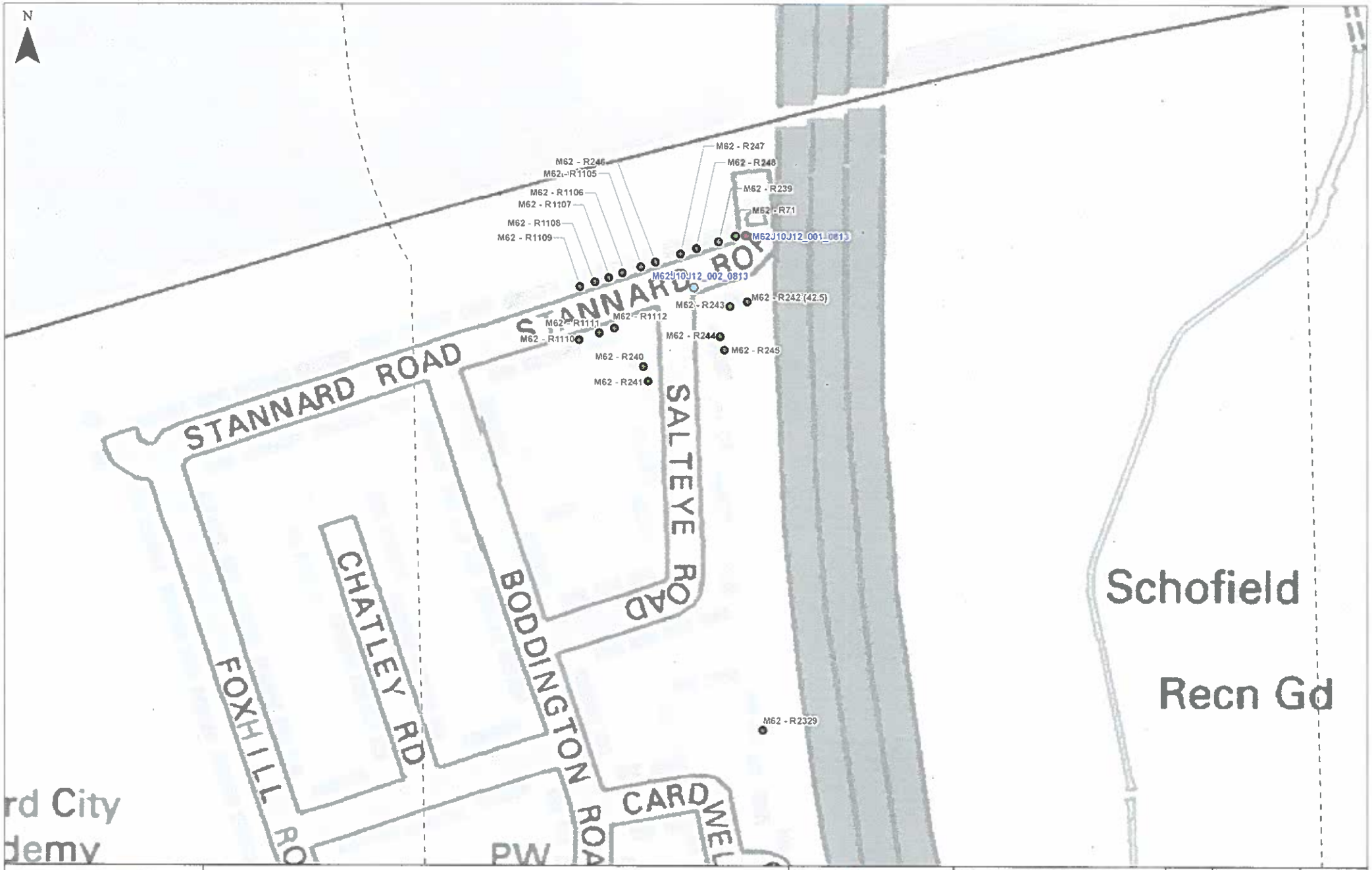
wsp
SMART MOTORWAY PROGRAMME
---M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 09 OF 33
A3



0 37.5 75
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

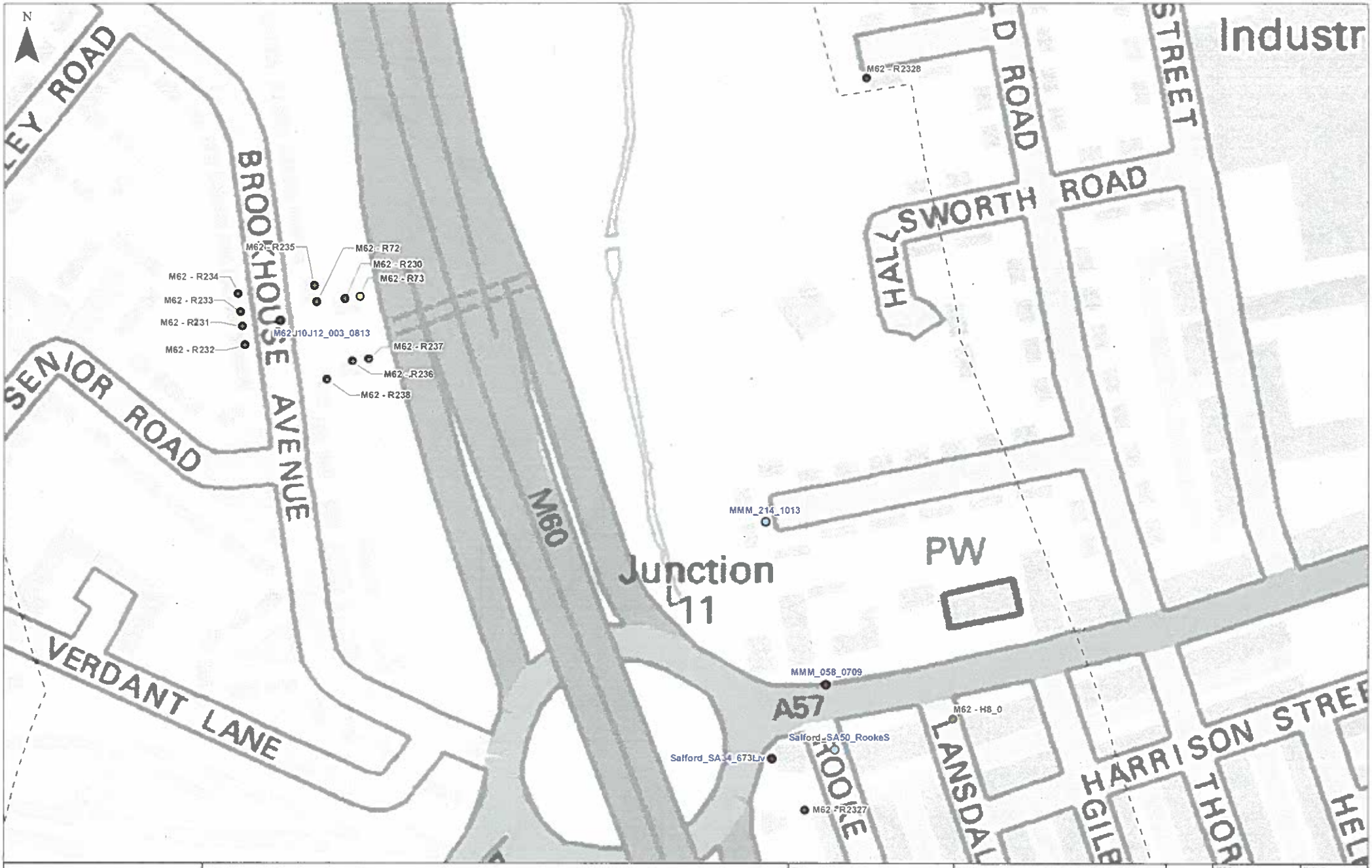
highways england

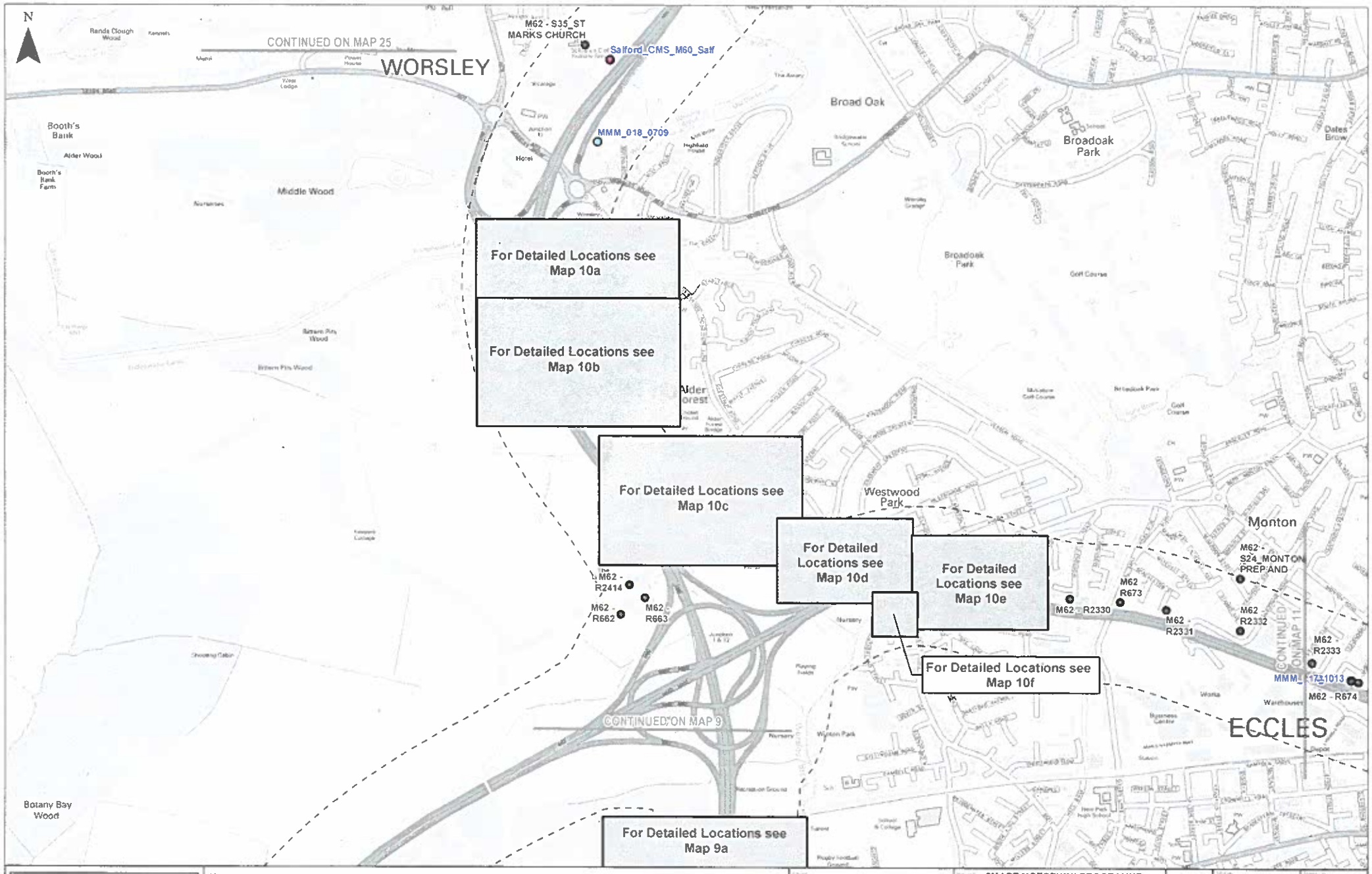
AECOM wsp

SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 9A

A3


N
Industr
LEY ROAD
BROOKHOUSE AVENUE
SENIOR ROAD
VERDANT LANE
M60
Junction 11
A57
PW
HALLSWORTH ROAD
STREET
HARRISON STREE
LANSDAL
THOR
M62 - R2328
M62 - R235
M62 - R72
M62 - R230
M62 - R73
M62 - R234
M62 - R233
M62 - R231
M62 - R232
M62J10J12_003_0813
M62 - R237
M62 - R236
M62 - R238
MMM_214_1013
MMM_058_0709
M62 - H8_0
Salford_SA50_RookeS
Salford_SA34_673Liv
M62 - R2327
0
37.5
75
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
highways england
AECOM
wsp
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 9B
A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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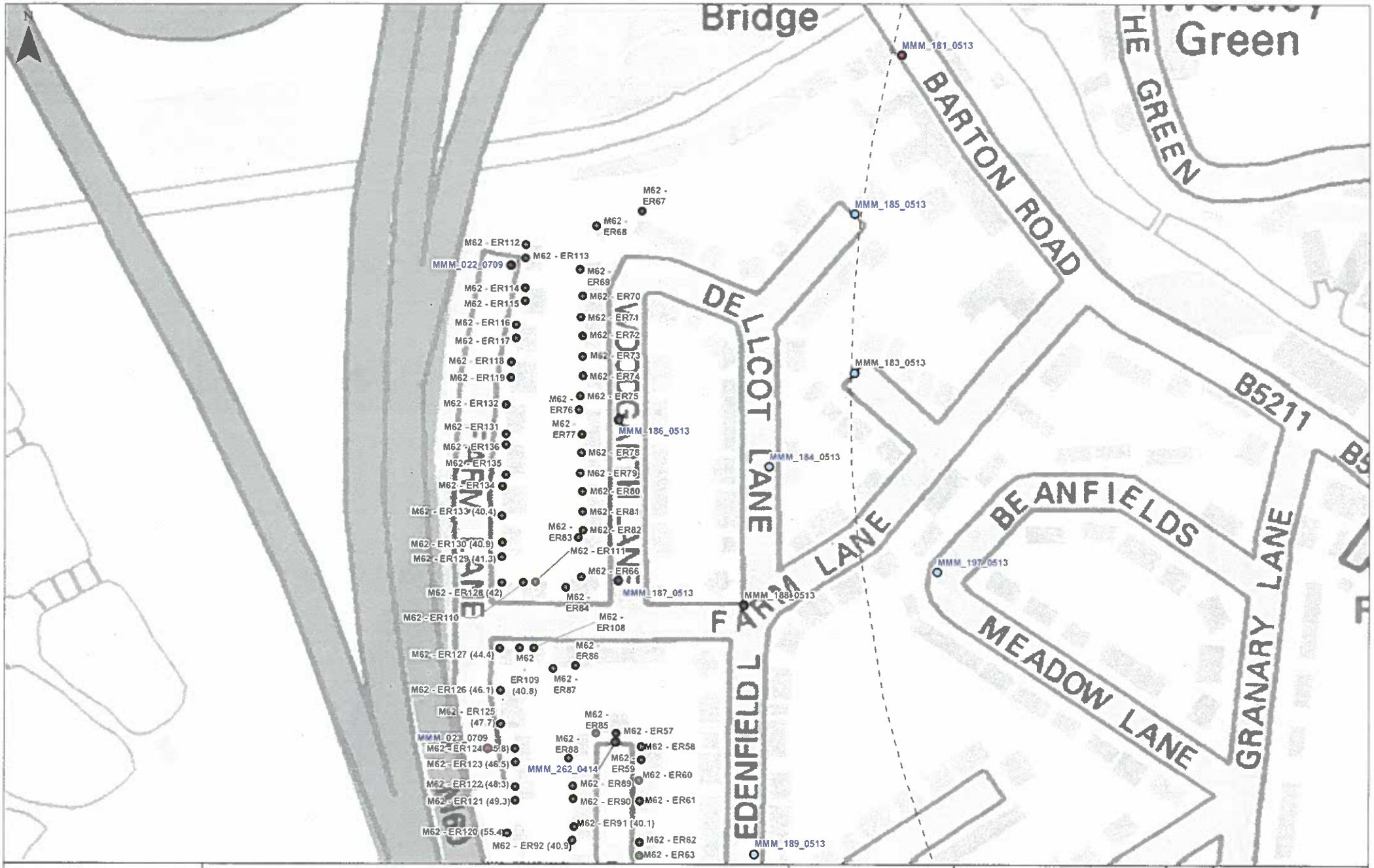
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 10 OF 33

A3



0 37.5 75
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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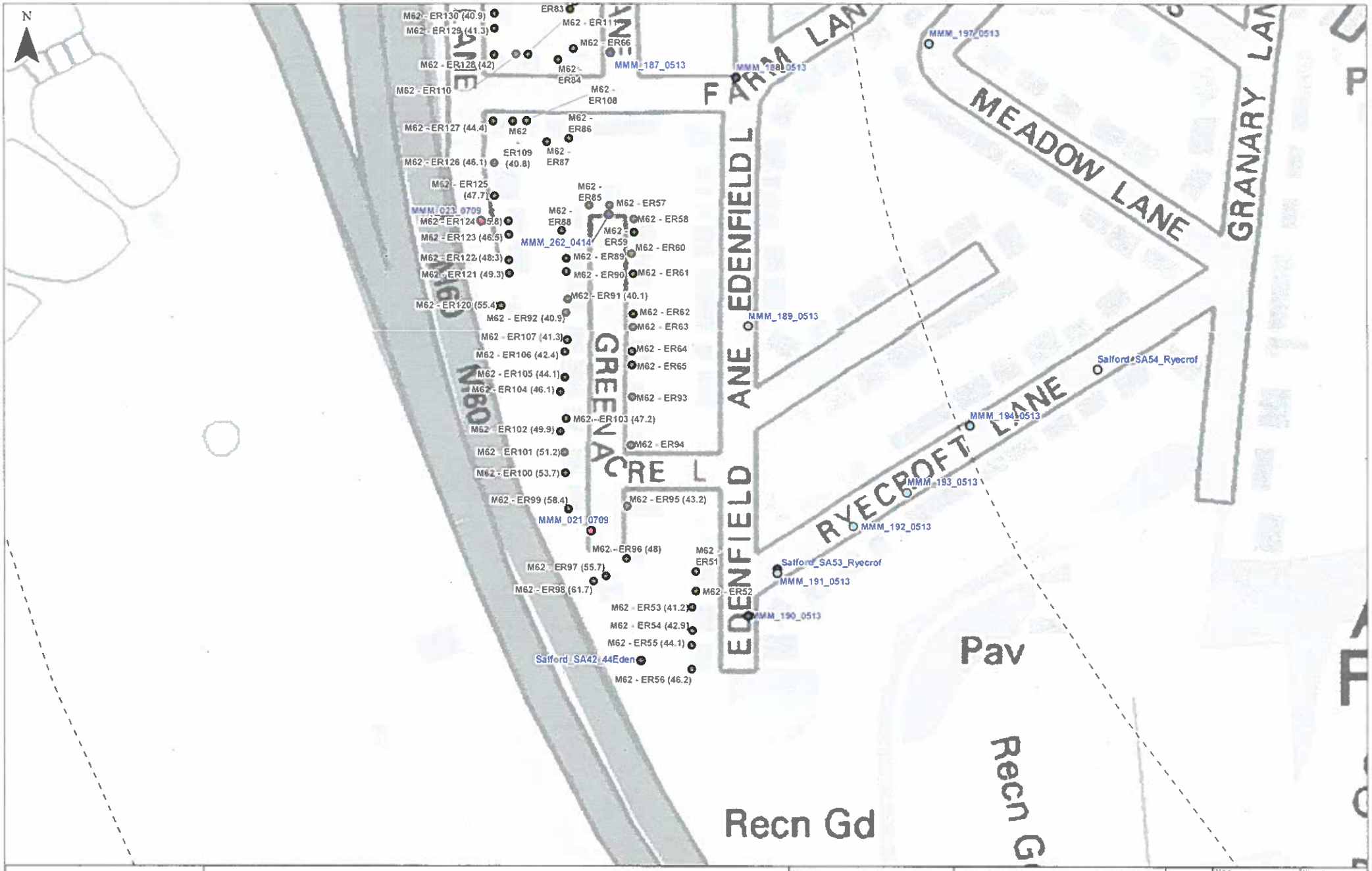
SMART MOTORWAY PROGRAMME
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 10A

A3



0 37.5 75
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 10B

Scale: 1:7,500
Checked By: DG
Approved By: TT
Original Size: A3

0 37.5 75
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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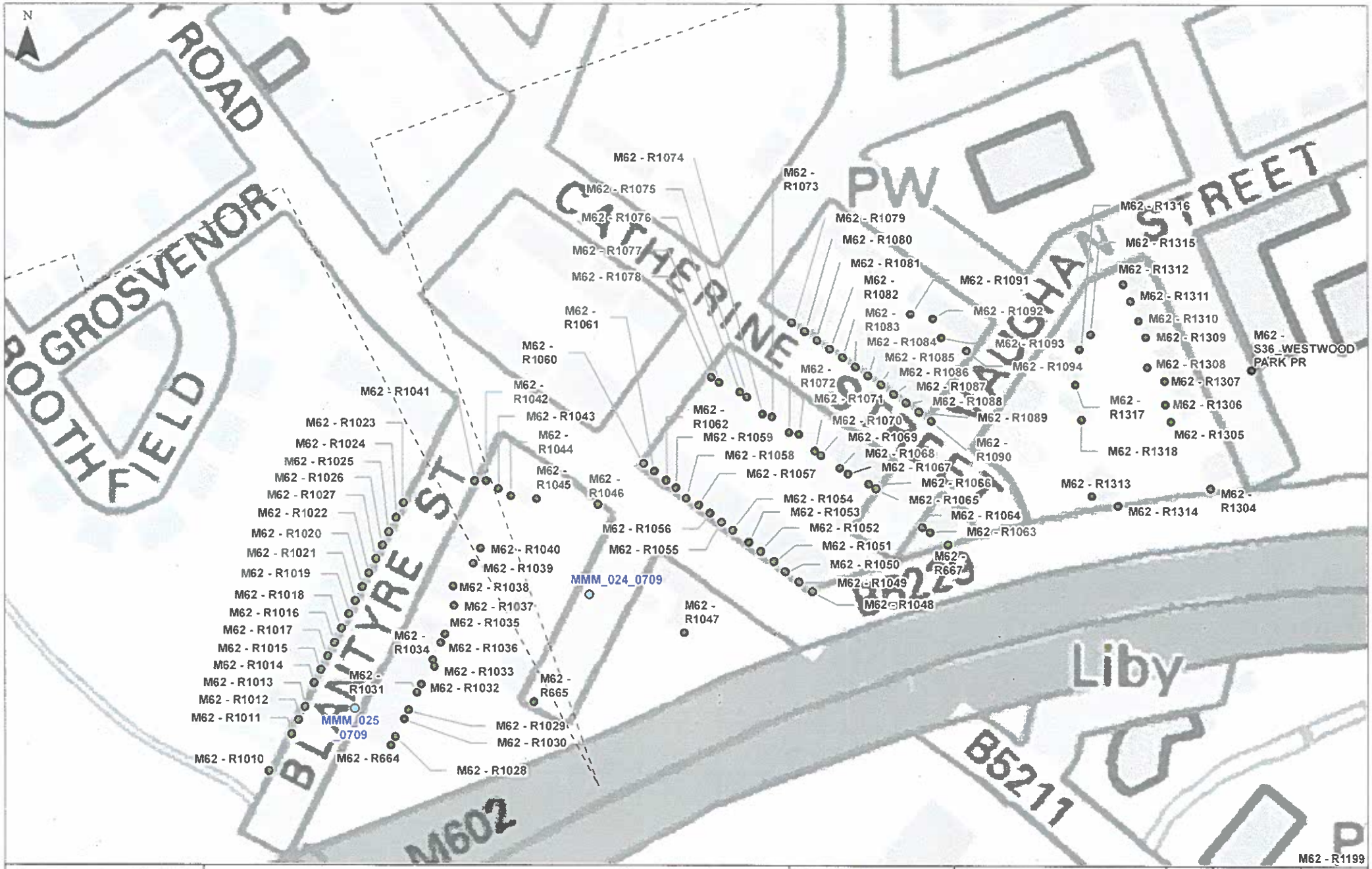
SMART MOTORWAY PROGRAMME
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 10C

A3



0 25 50
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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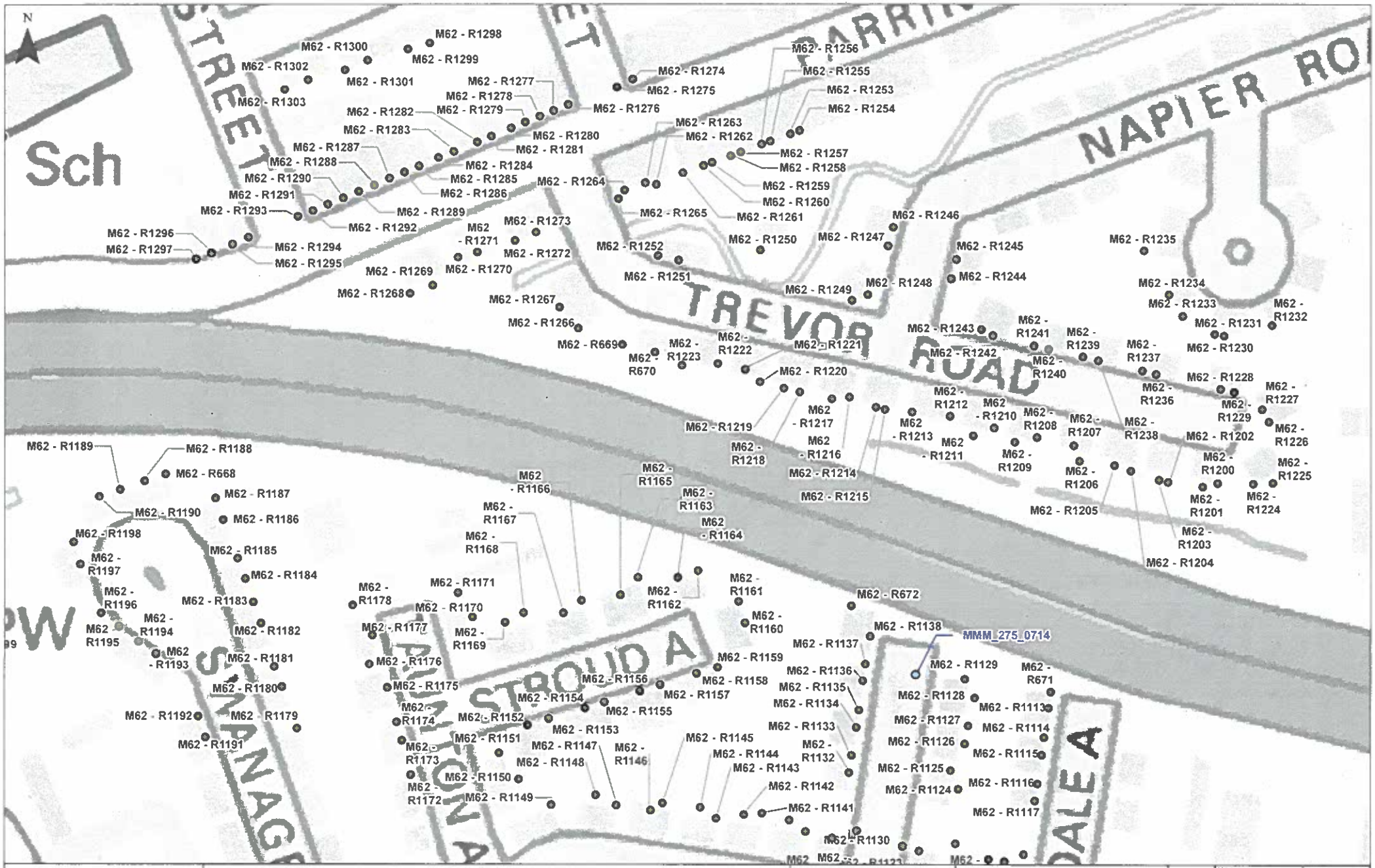
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 10D

A3



0 25 50
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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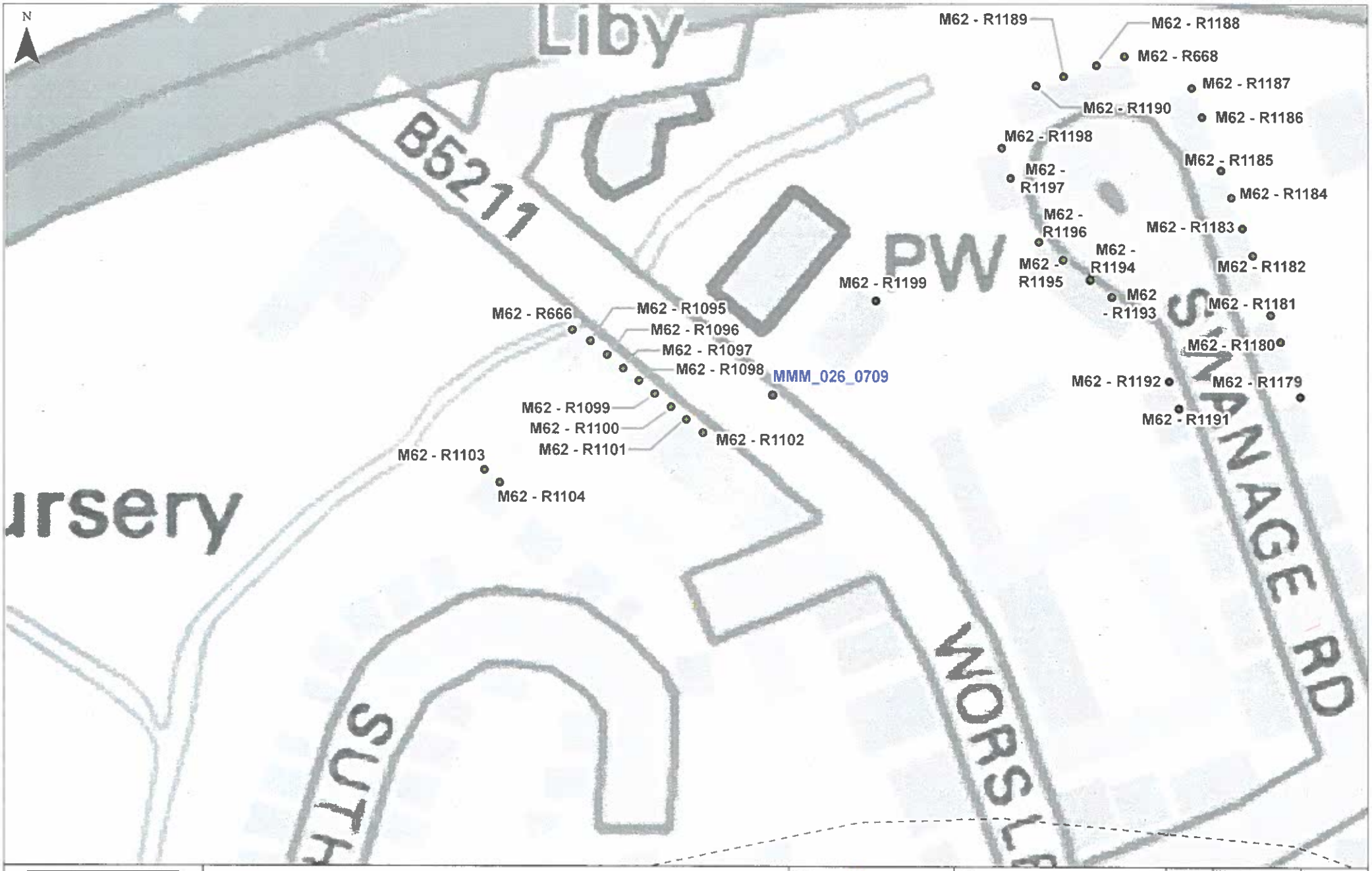
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 10E

A3



0 15 30
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

highways england
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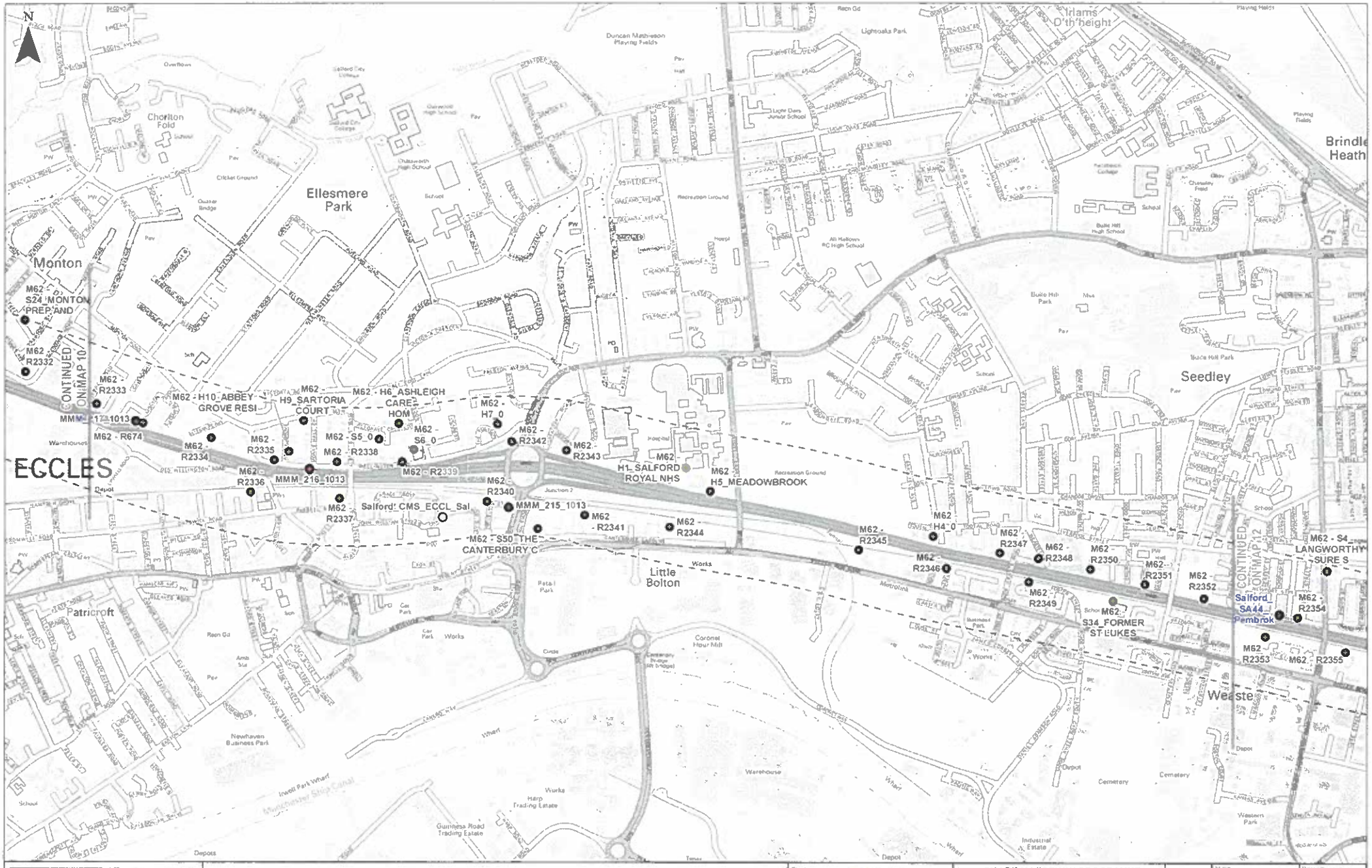
wsp

SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 10F

A3



0 250 500
Metres

Key

- M62 J10 to J12 Air Quality
- Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Client: highways england

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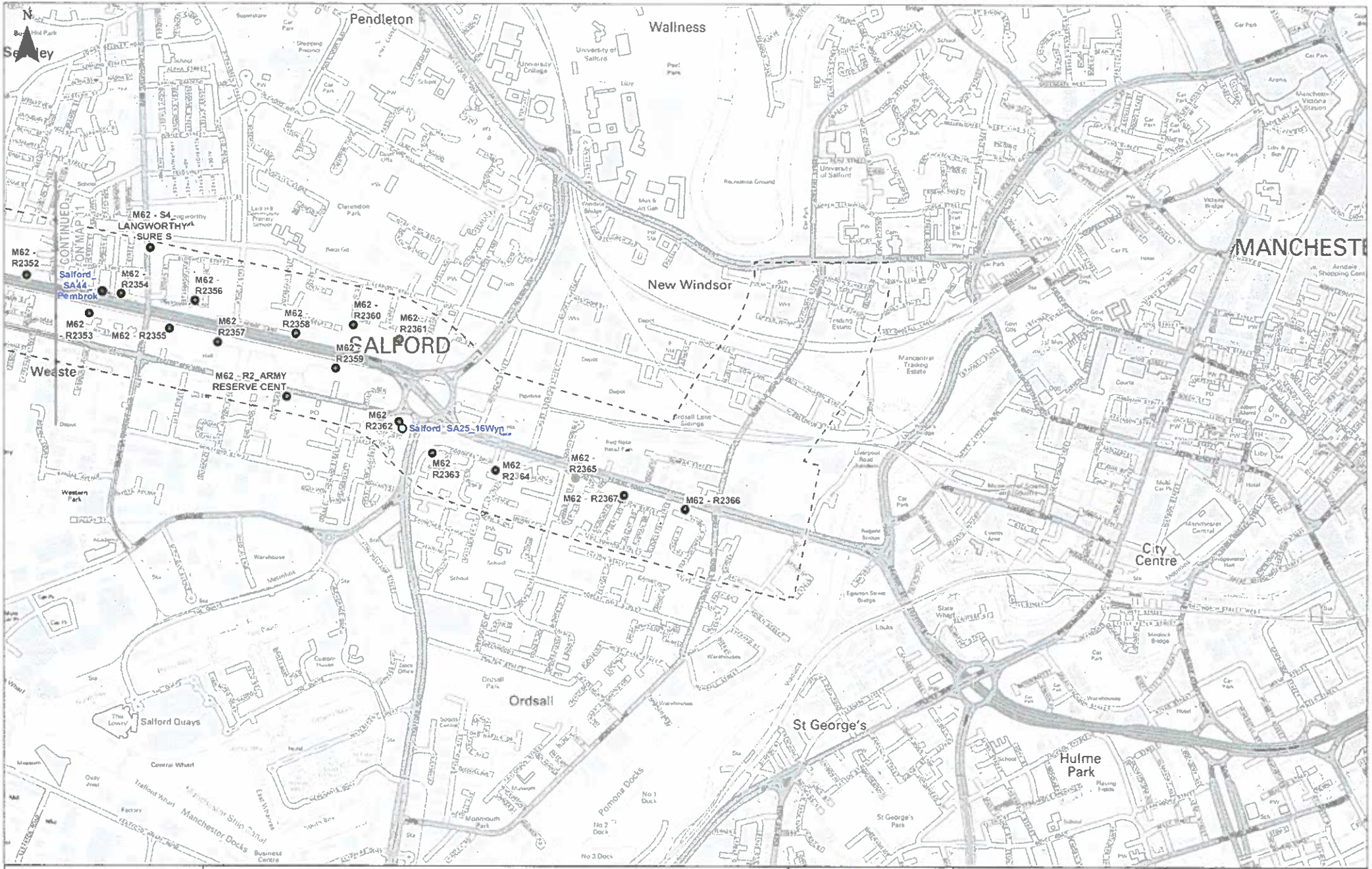
Project: SMART MOTORWAY PROGRAMME
M62 J10 - J12

Drawing Title: FIGURE 5.3
AIR QUALITY MODELLING
MAP 11 OF 33

Scale: 1:10,000 | Drawn By: NM | Checked By: DG | Approved By: JT | Date: 04.10.2019 | Revision: P01 | Original Size: A3


N
Pendleton
Wallness
Salford
Weaste
New Windsor
MANCHESTE
City Centre
Ordsall
St George's
Hulme Park
Salford Quays
CONTINUED ON MAP 11
M62 - S4_LANGWORTHY SURE S
M62 - R2352
Salford - SA44 - Pembrok
M62 - R2354
M62 - R2356
M62 - R2353
M62 - R2355
M62 - R2357
M62 - R2358
M62 - R2360
M62 - R2361
M62 - R2359
M62 - R2_ARMY RESERVE CENT
M62 - R2362
Salford - SA25_16Wyn
M62 - R2363
M62 - R2364
M62 - R2365
M62 - R2367
M62 - R2366
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
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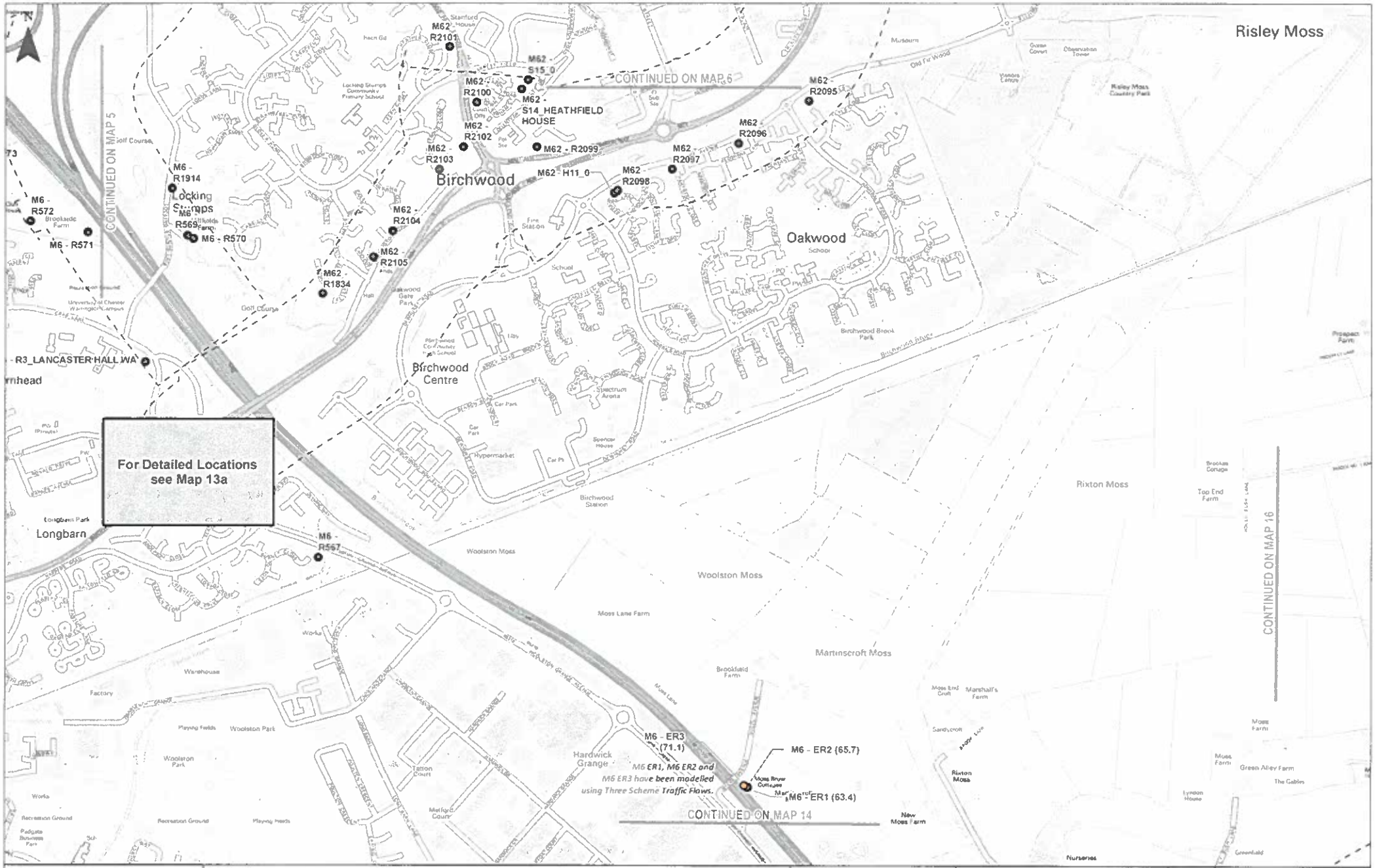
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 12 OF 33
A3


Risley Moss
CONTINUED ON MAP 5
CONTINUED ON MAP 6
CONTINUED ON MAP 14
CONTINUED ON MAP 16
M62 - R2101
M62 - S15_0
M62 - R2100
M62 - S14_HEATHFIELD HOUSE
M62 - R2102
M62 - R2099
M62 - R2103
M62 - H11_0
M62 - R2098
M62 - R2097
M62 - R2096
M62 - R2095
M6 - R1914
M6 - R572
M6 - R571
M6 - R569
M6 - R570
M62 - R2104
M62 - R2105
M62 - R1834
R3_LANCASTER HALL WA
M6 - R567
M6 - ER3 (71.1)
M6 - ER2 (65.7)
M6 - ER1 (63.4)
M6 ER1, M6 ER2 and M6 ER3 have been modelled using Three Scheme Traffic Flows.
Birchwood
Locking Stumps
Oakwood
Birchwood Centre
Longbarn
Hardwick Grange
Woolston Moss
Martinscroft Moss
Rixton Moss
For Detailed Locations see Map 13a
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
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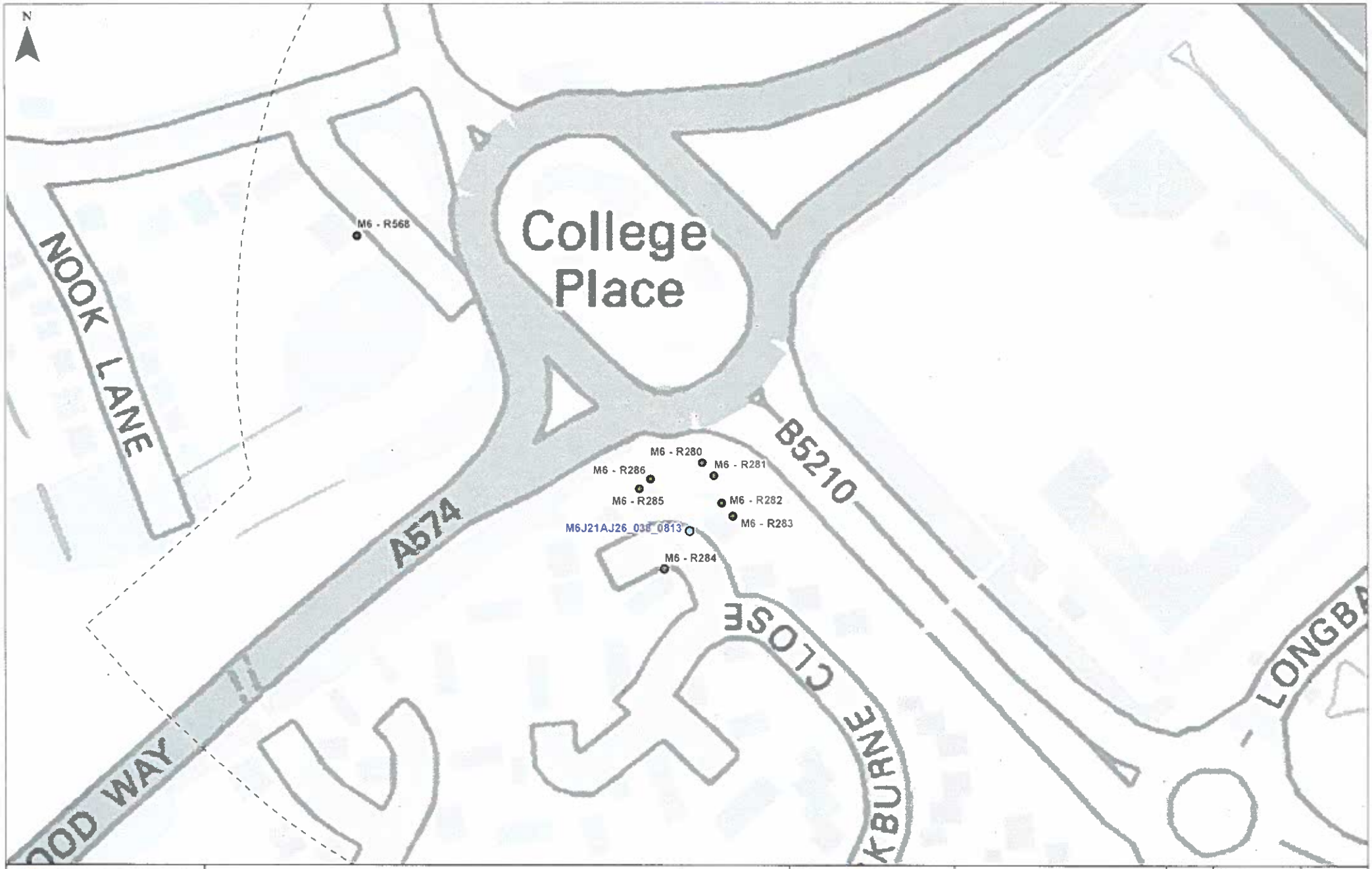
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 13 OF 33
A3



0 30 60
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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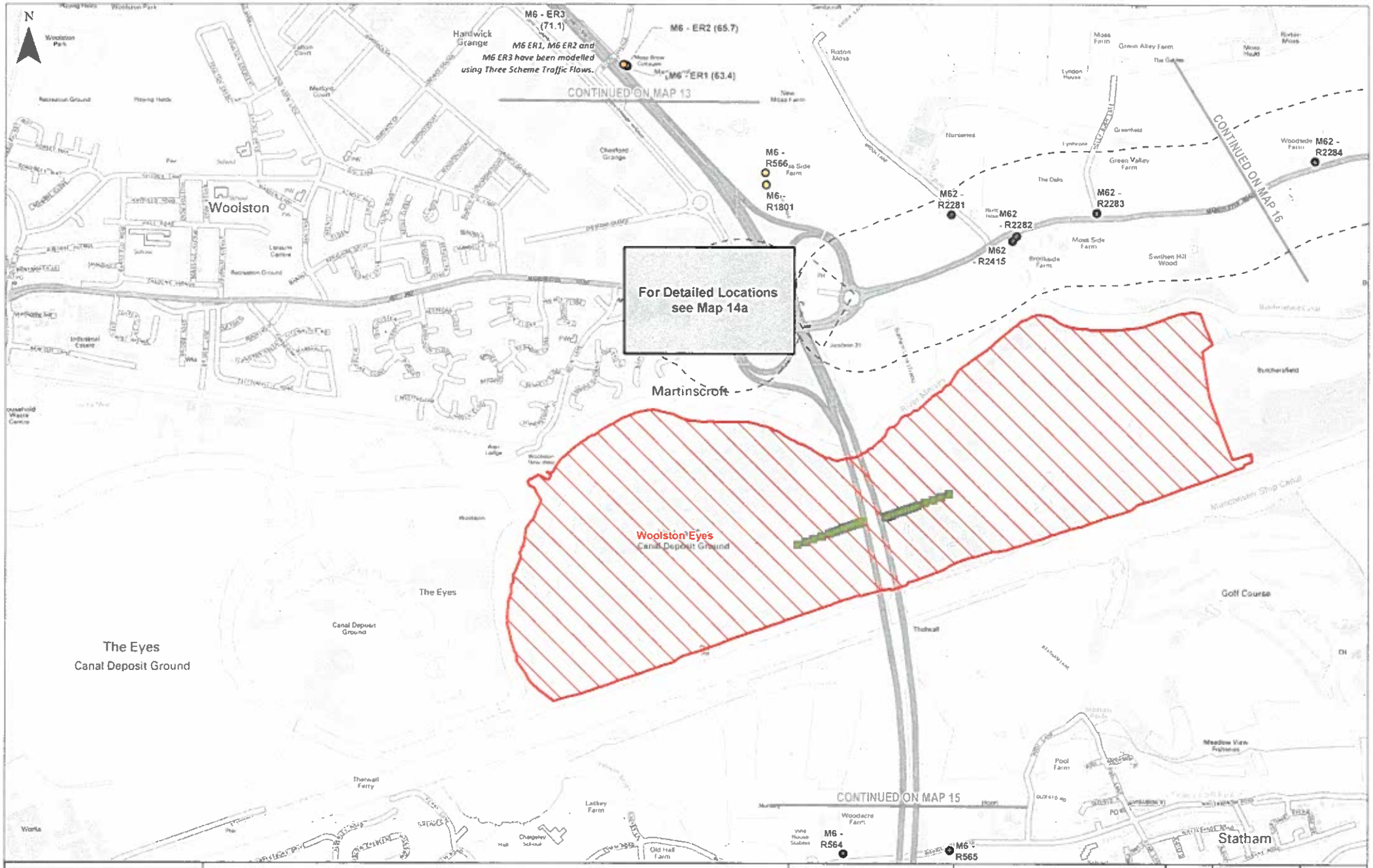
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 13A

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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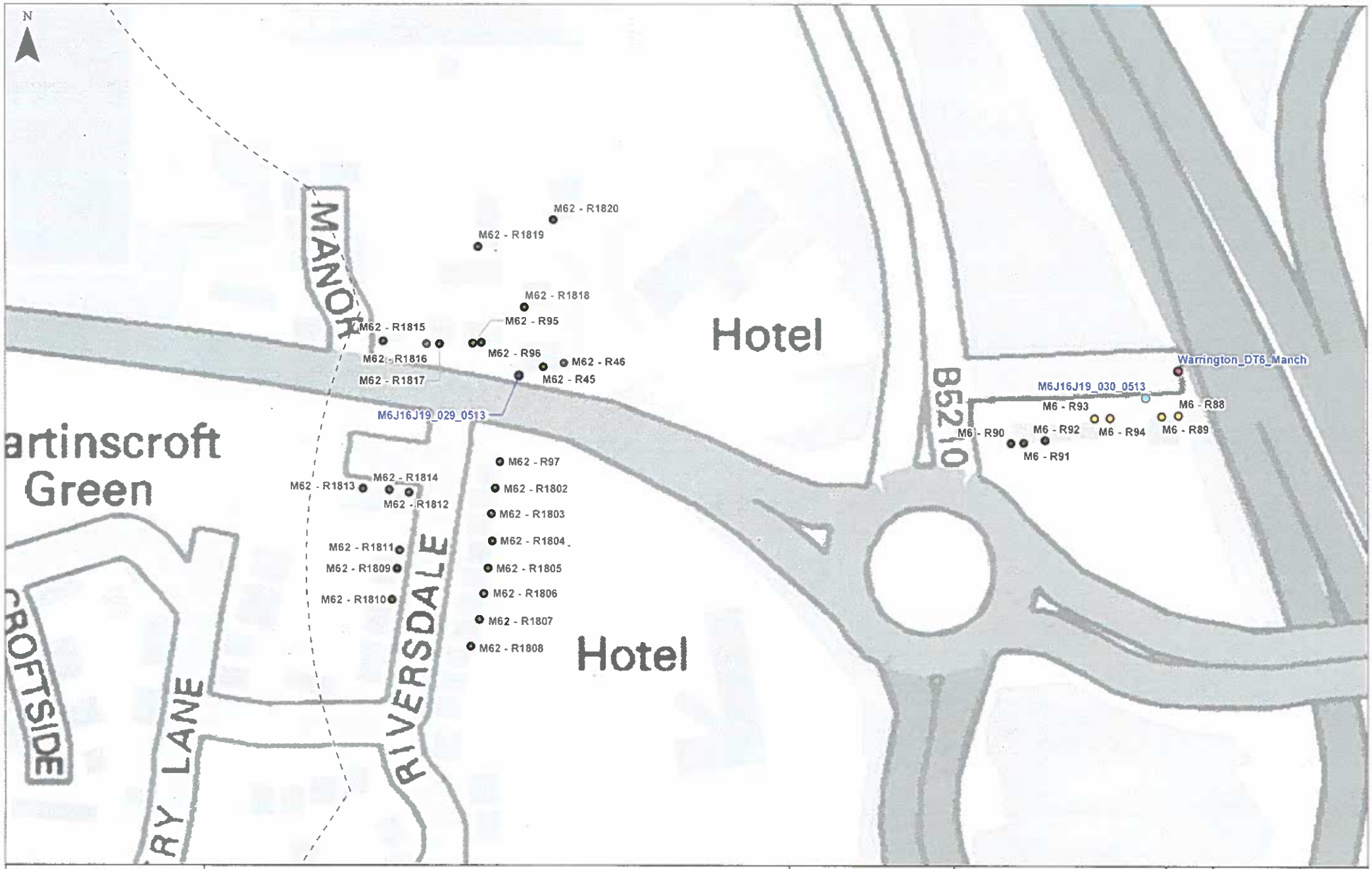
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 14 OF 33

A3



0 30 60
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

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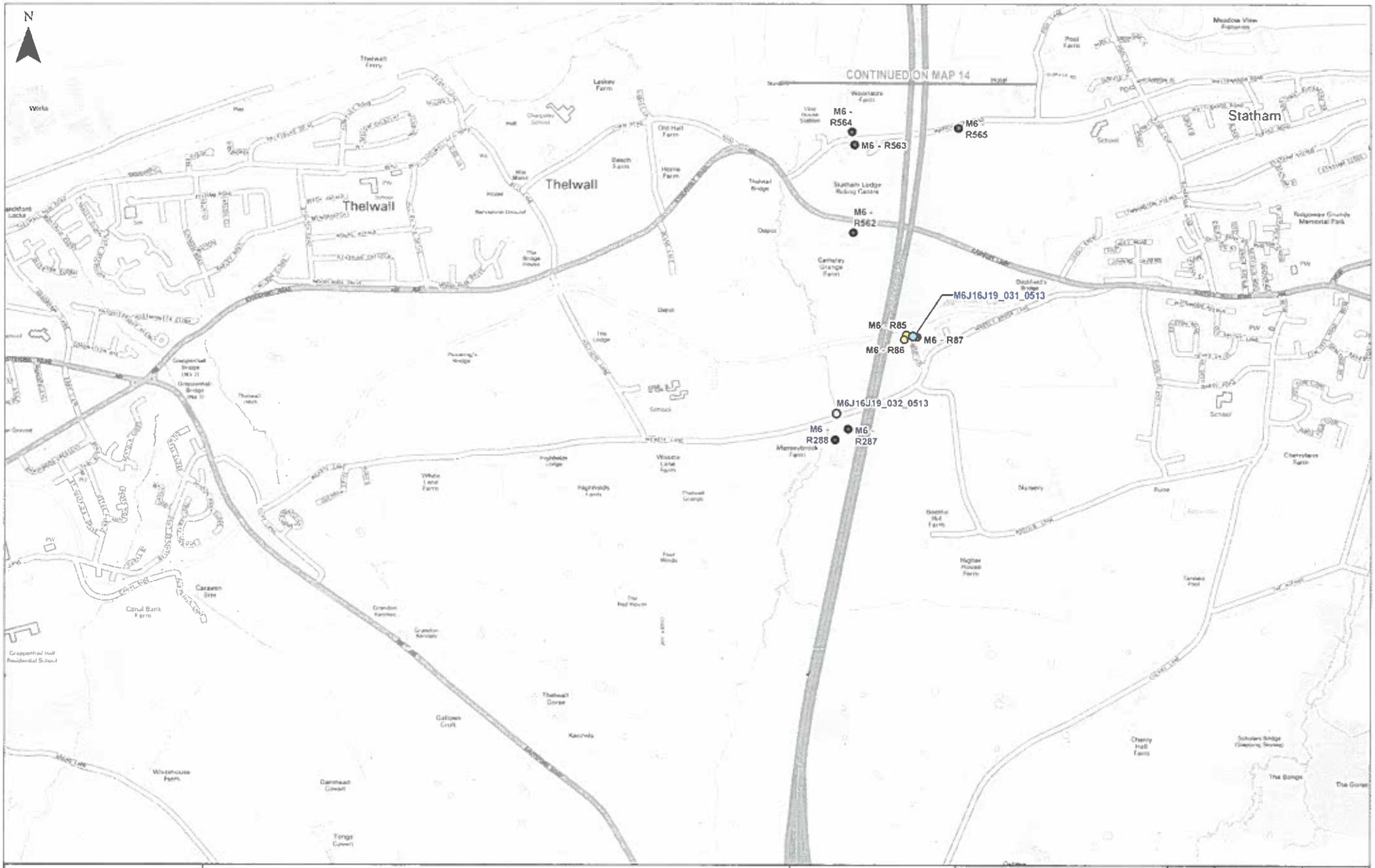
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 14A

A3



0 250 500
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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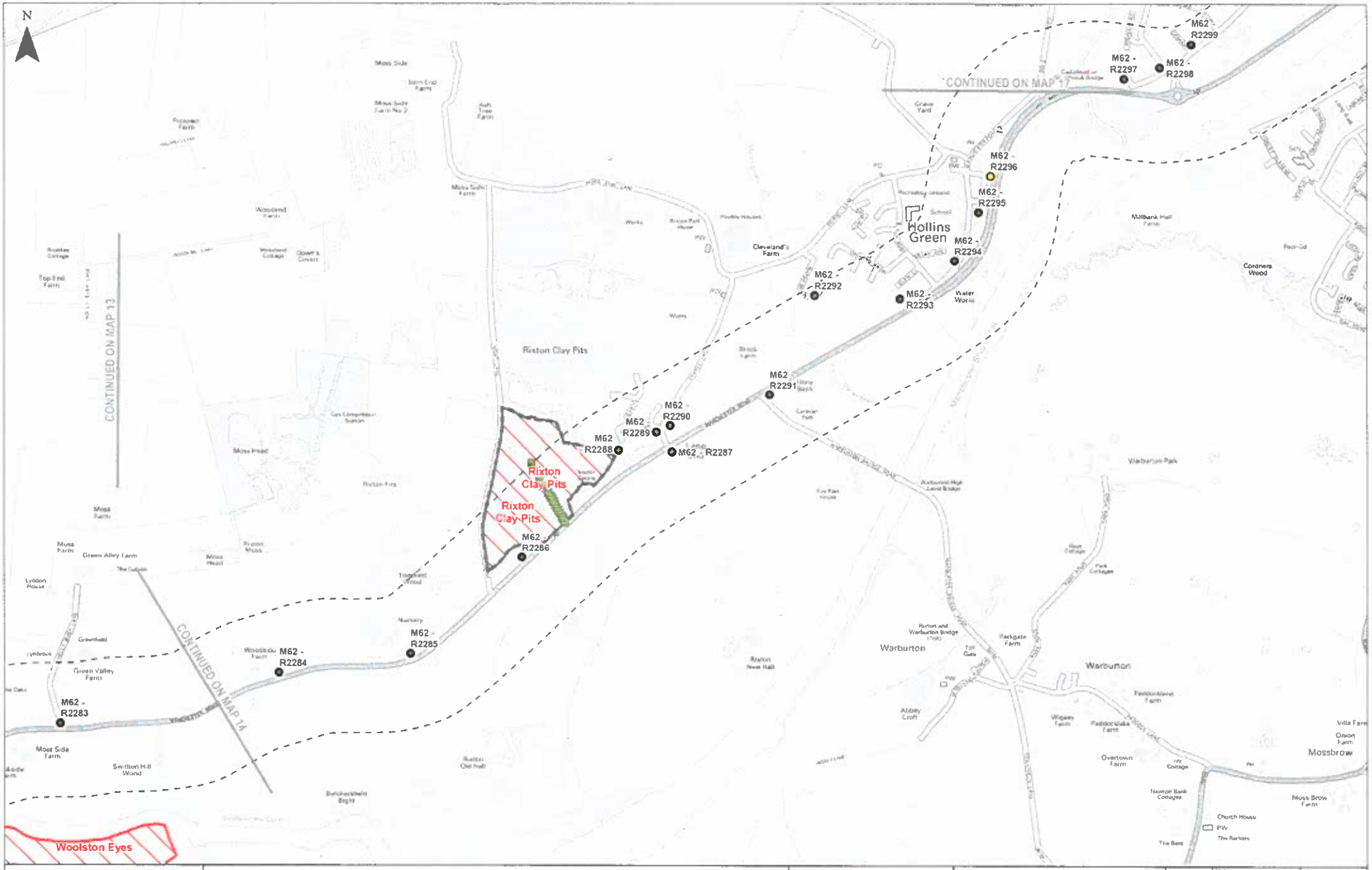
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 15 OF 33

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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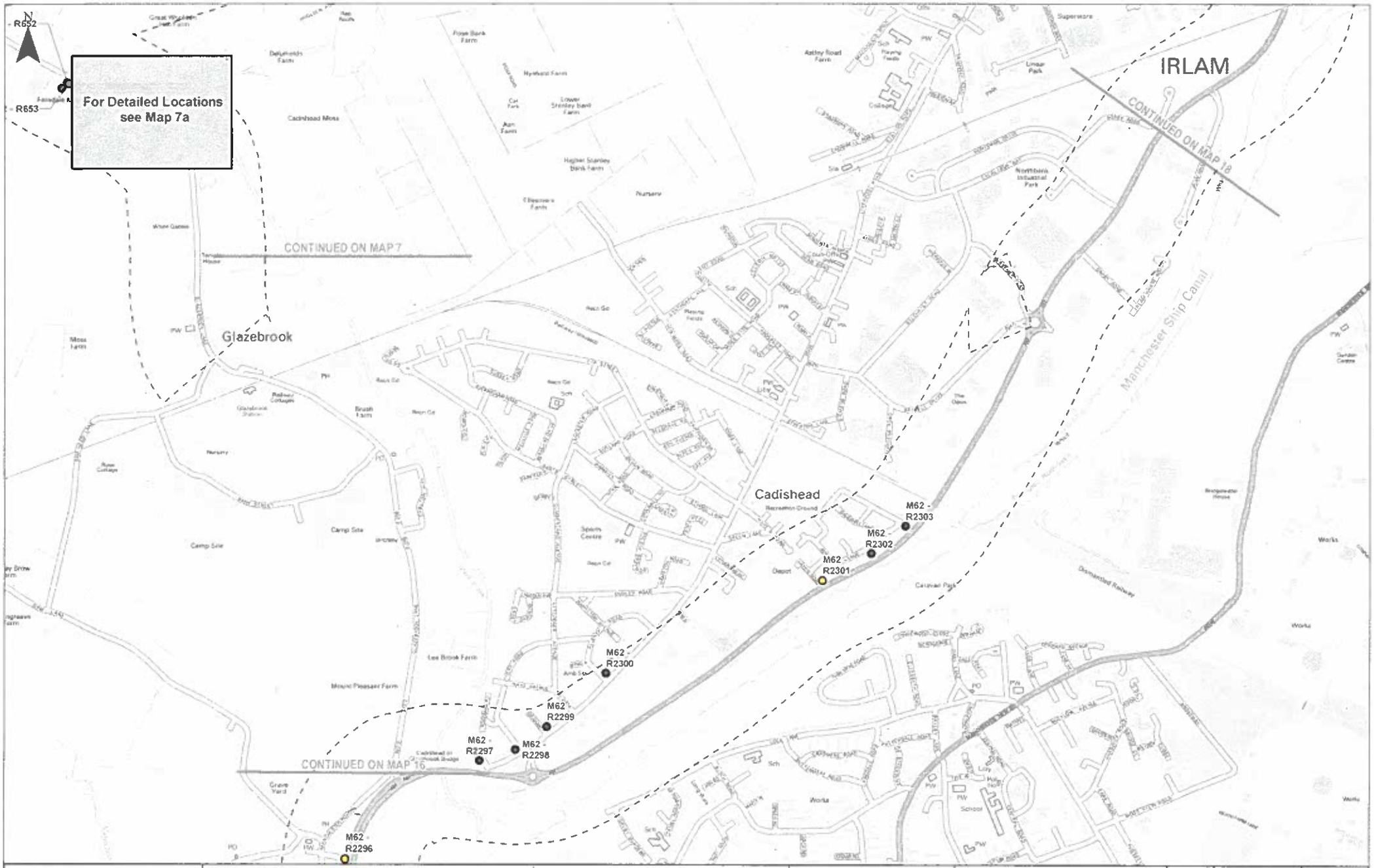
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 16 OF 33

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality
- Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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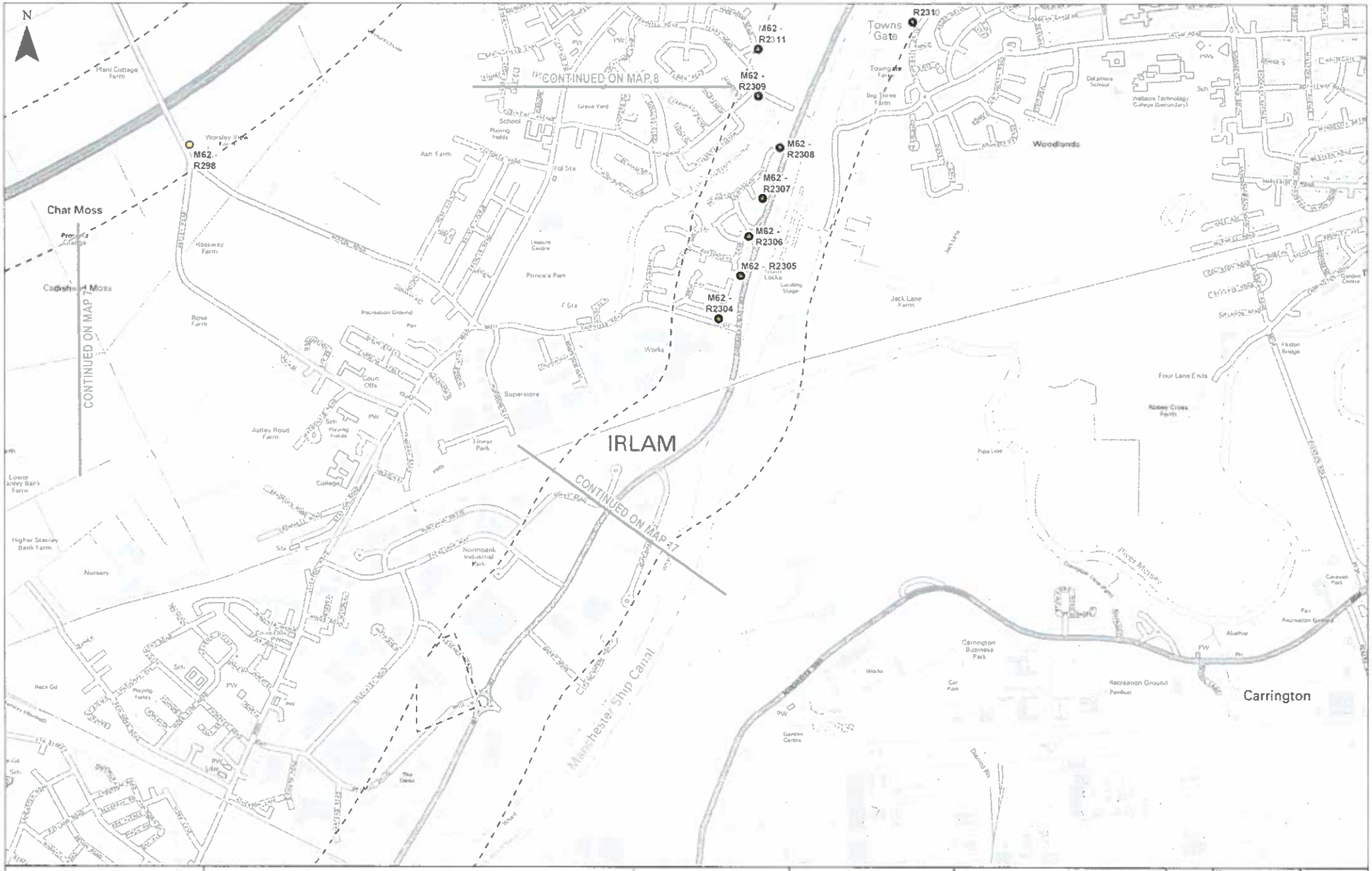
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 17 OF 33

A3



0 250 500
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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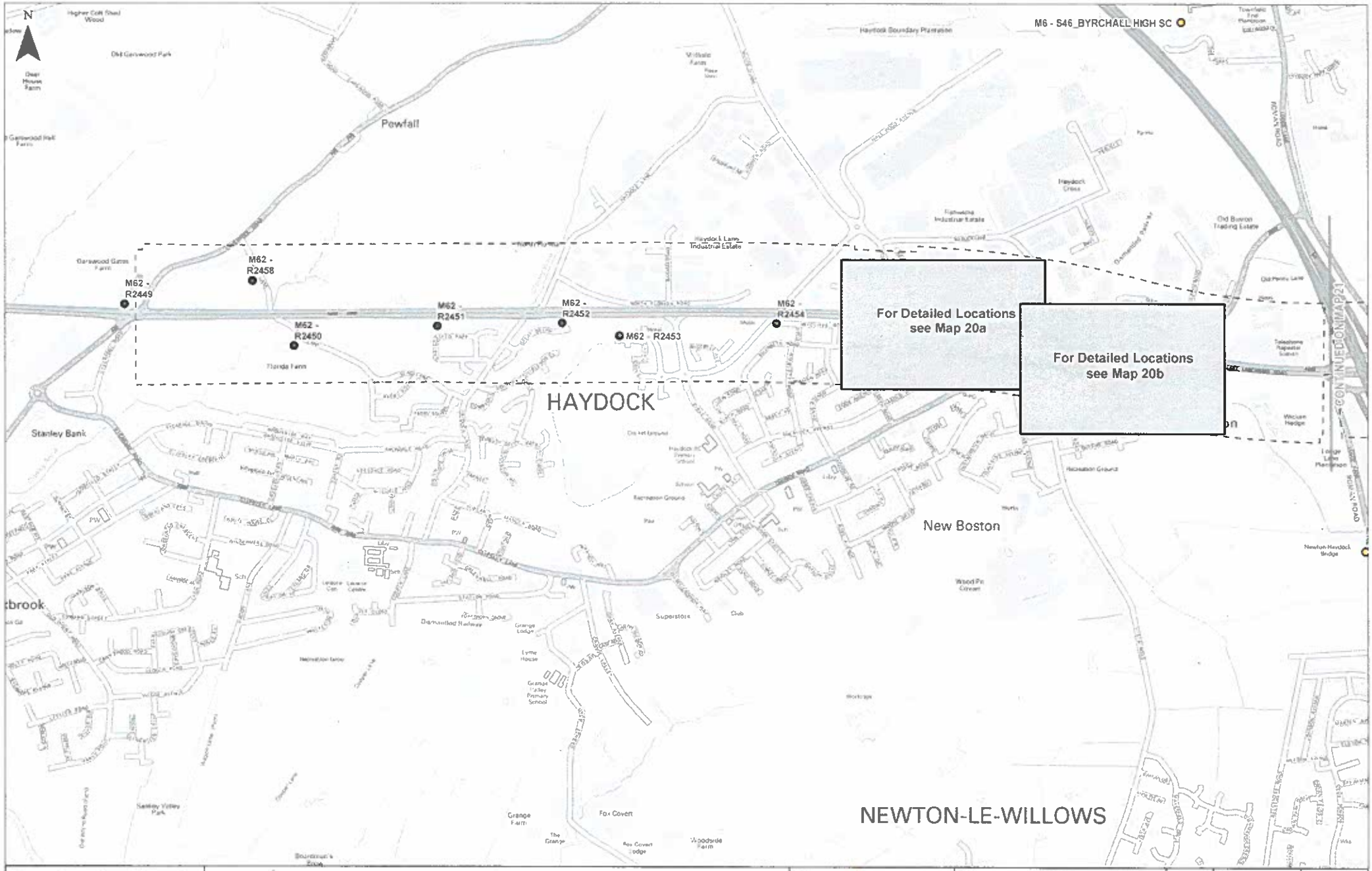
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 18 OF 33

A3

N
M6 - R2197
M6 - R2198
M6 - R2199
M6 - R2200
M6 - R2201
M6 - R2202
M6 - R2203
M6 - R2204
M6 - R2205
M6 - R2206
M6 - R2207
M6 - R2208
M6 - R2209
M6 - R2210
M6 - R2211
M6 - R2212
M6 - R2213
Windlehurst
Windle
Catchdale Moss
Borough Cemetery
Fairfield Hospital
Rainford Hall
Grey House Farm
Windle Hall Farm
Potter's House Farm
Brook Wood
Poverty Plantation
Fenny Bank Rough
Fenny Bank Farm
Wrastanley Wood
Lion House Wood
Nursery Wood
Square Wood
Long Wood
Moss Plantation
Windle Moss
Golf Course
Coventry Language College
Victoria Park
Playing Fields
Football Ground
Hall Coppice
Windle Park Wood
Birch Tree Farm
Dagnals Bridge
Brook Cottage
Jackson's Cottages
Willow Cottage
Watery Lane Farm
Lower Barrow Field Farm
Beech Hill
Inglewood Farm
Harrison's Wood
Read's Moss
Moss Farm
Windle Farm
Hall Fold Farm
Crank House
The Cottage
Stable Cottage
Lodge
The Nursery
Meard Hall
School
Car Park
Colt
Sheard
Pavilion
Works
Pw
Pav
Scale
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
highways england
AECOM
wsp
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 19 OF 33
A3



0 250 500
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg·m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg·m³
- >44 µg/m³

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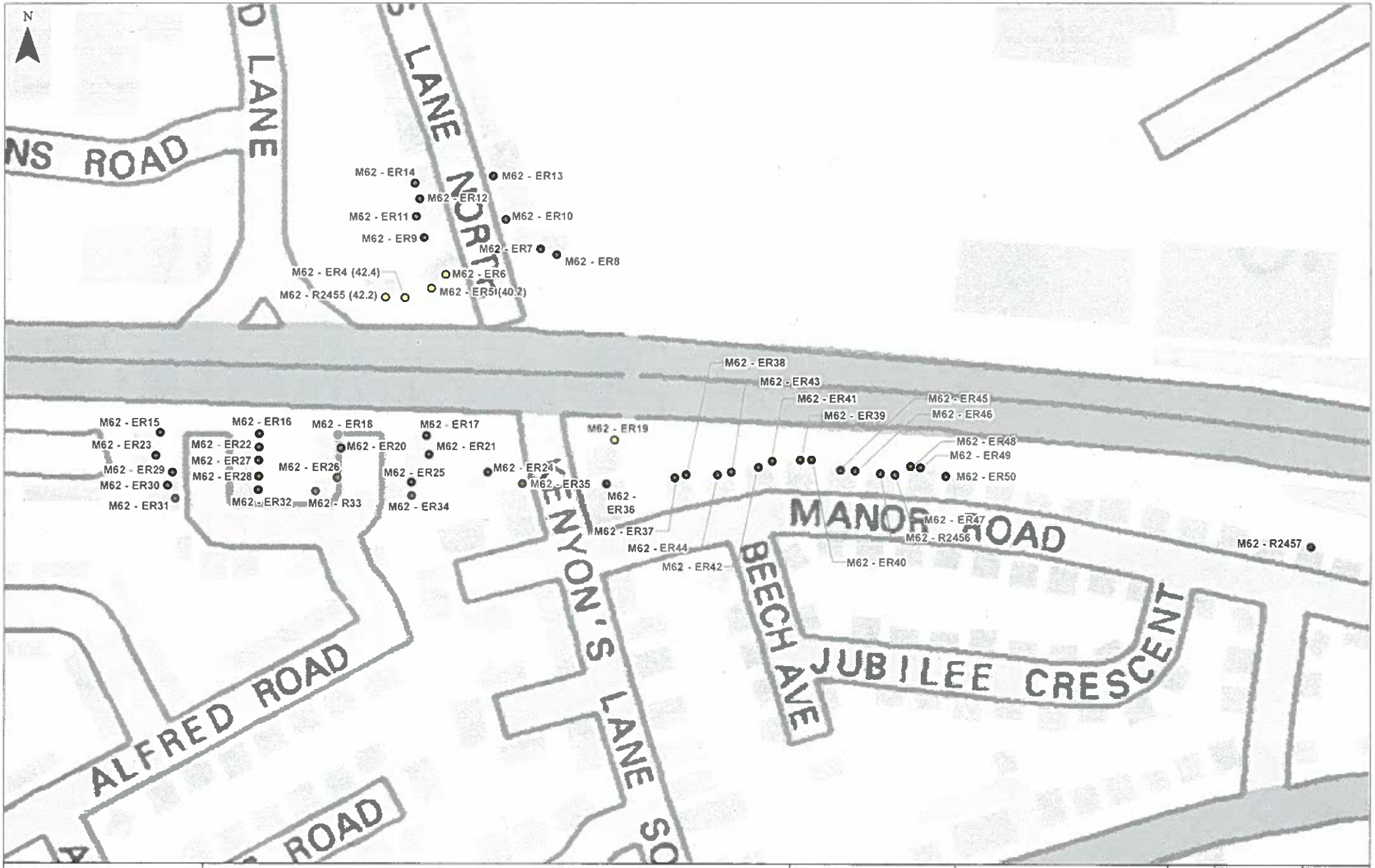
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 20 OF 33

A3



0 30 60
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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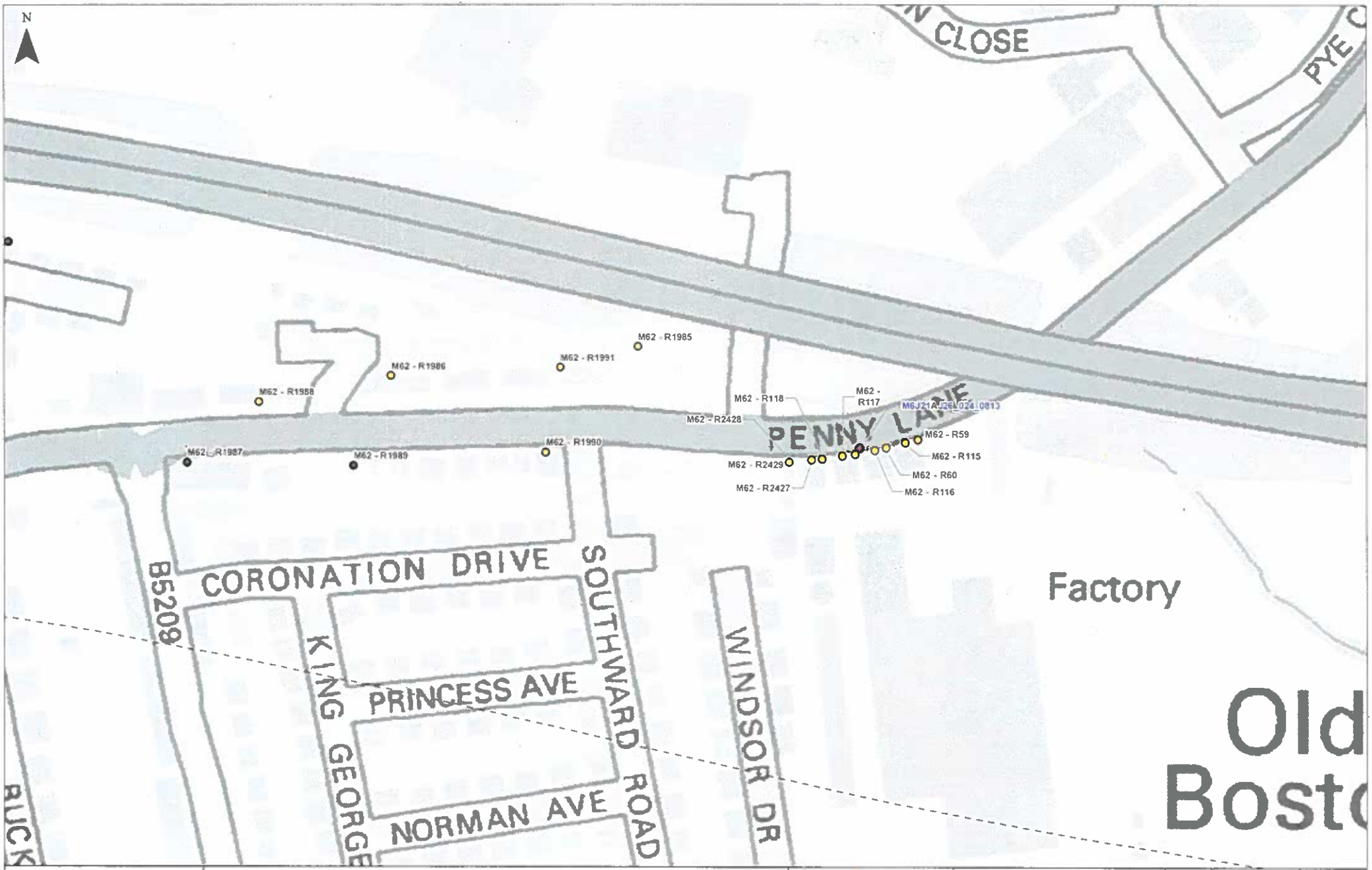
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 20A

A3



0 37.5 75
Metres

Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)

Scenario Results
Imperceptible
Large
Medium
Small

AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³

highways england
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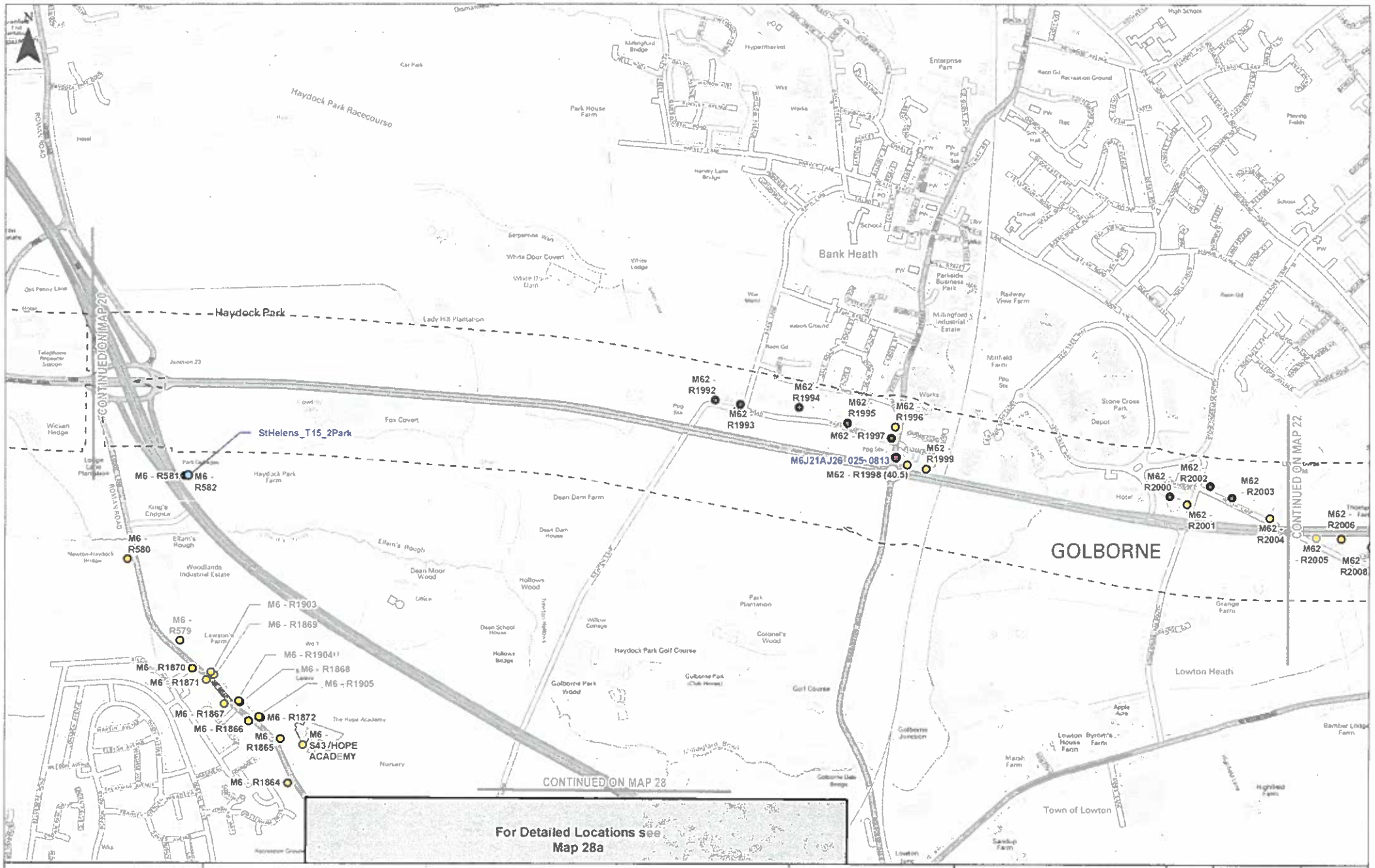
wsp

SMART MOTORWAY PROGRAMME
--M62 J10 - J12--

FIGURE 5.3
AIR QUALITY MODELLING
MAP 20B

A3


Haydock Park Racecourse
Haydock Park
Bank Heath
GOLBORNE
Lowton Heath
Town of Lowton
Haydock Park Golf Course
CONTINUED ON MAP 20
CONTINUED ON MAP 22
CONTINUED ON MAP 28
StHelens_T15_2Park
M6 - R581
M6 - R582
M6 - R580
M6 - R579
M6 - R1903
M6 - R1869
M6 - R1904
M6 - R1868
M6 - R1905
M6 - R1870
M6 - R1871
M6 - R1867
M6 - R1866
M6 - R1872
M6 - R1865
M6 - S43/HOPE ACADEMY
M6 - R1864
M62 - R1992
M62 - R1993
M62 - R1994
M62 - R1995
M62 - R1996
M62 - R1997
M6J21AJ26_025-0813
M62 - R1998 (40.5)
M62 - R1999
M62 - R2000
M62 - R2001
M62 - R2002
M62 - R2003
M62 - R2004
M62 - R2005
M62 - R2006
M62 - R2008
For Detailed Locations see Map 28a
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
highways england
AECOM
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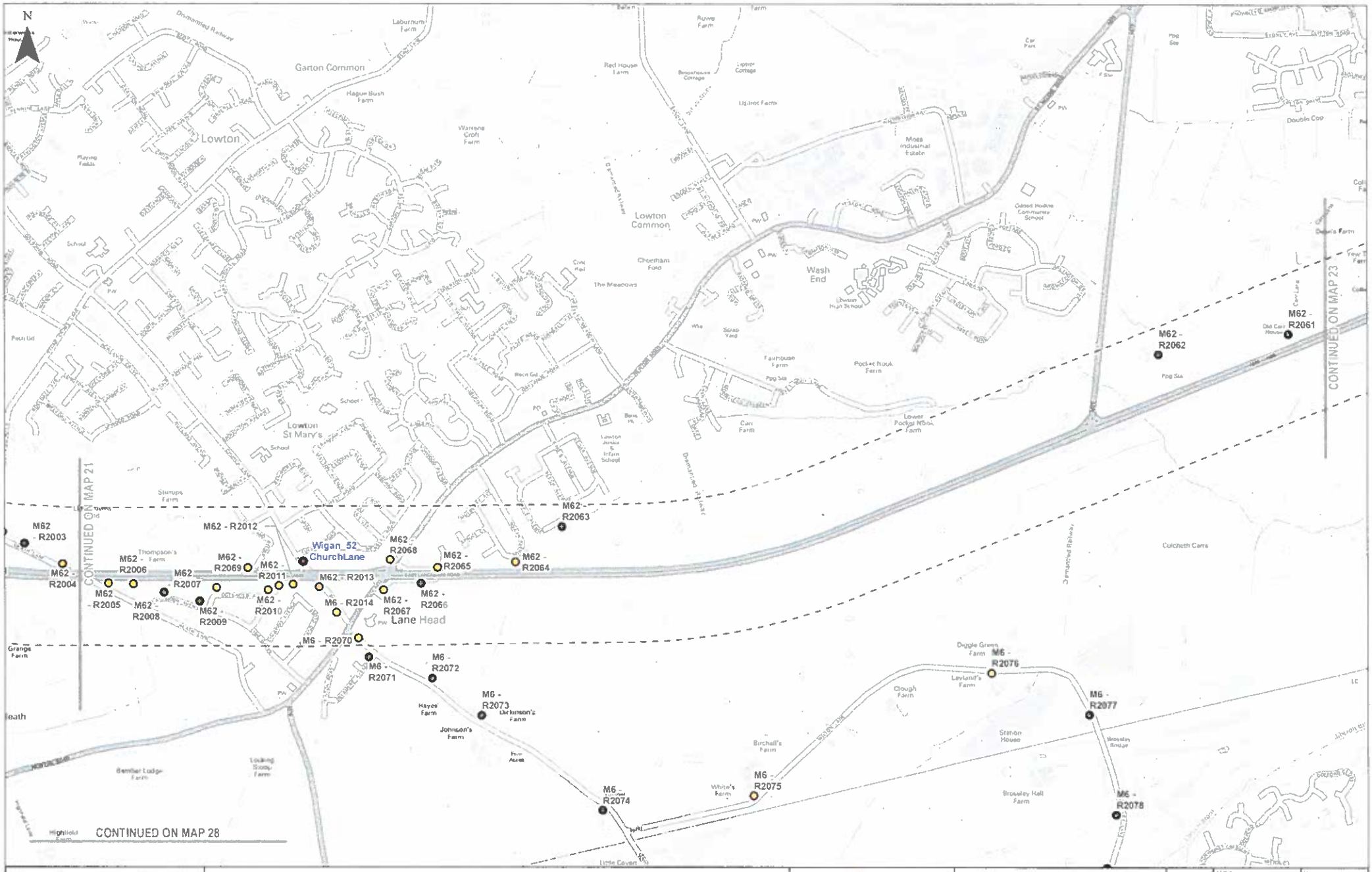
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 21 OF 33
A3



0 250 500
Metres

Key

- M62 J10 to J12 Air Quality
- Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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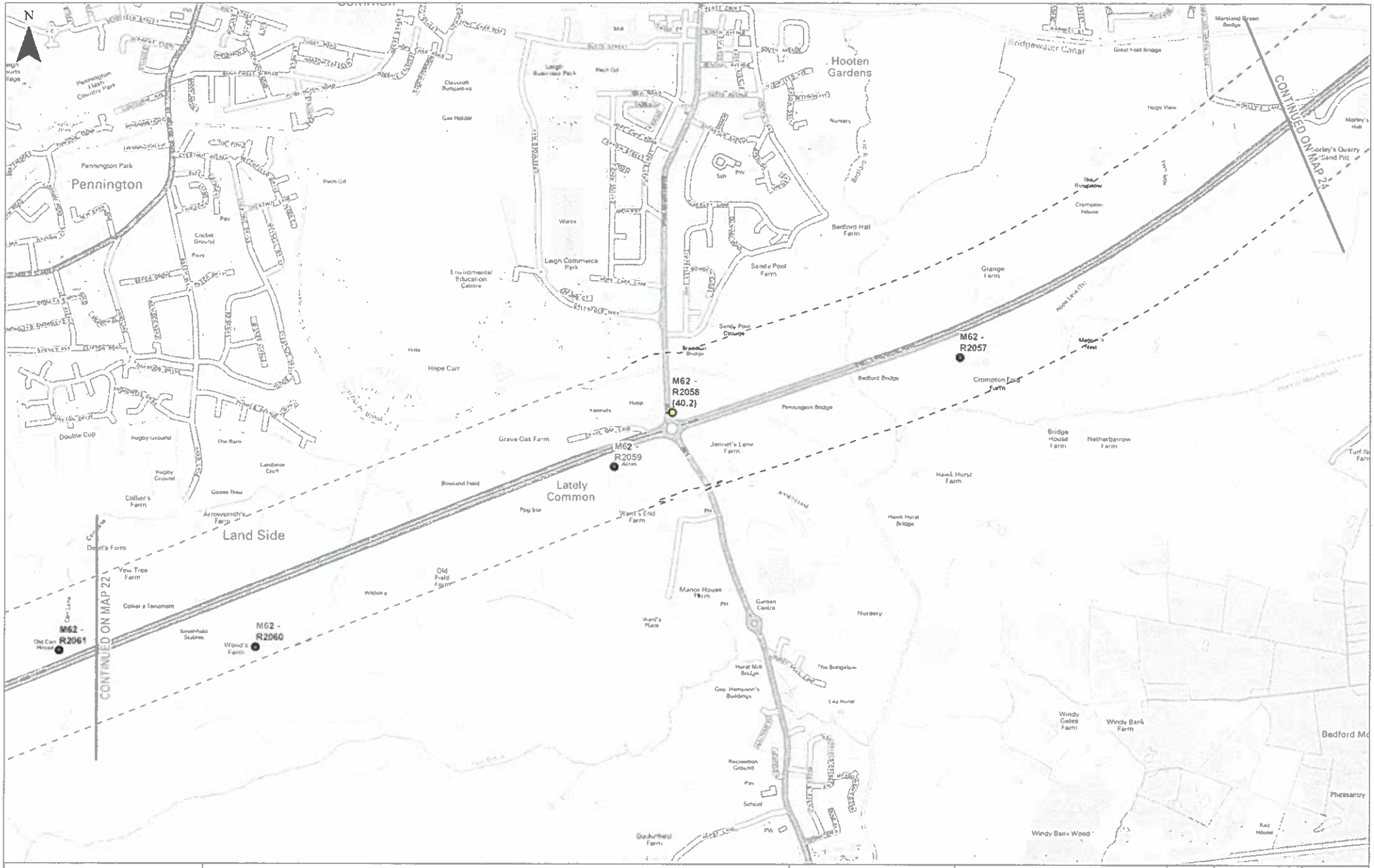
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 22 OF 33

A3


N
Pennington
Pennington Park
Hooten Gardens
Bridgewater Canal
Leigh Commerce Park
Environmental Education Centre
Bedford Hall Farm
Sandy Pool Farm
Grange Farm
Crompton House
Bedford Bridge
Crompton Fold Farm
Pennington Bridge
Hope Carr
Grave Oak Farm
Jennet's Lane Farm
Lately Common
Bowland Field
Went's End Farm
Hawk Hurst Farm
Hawk Hurst Bridge
Bridge House Farm
Netherbarrow Farm
Double Cup
Rugby Ground
The Barn
Landside Cott
Collier's Farm
Arrowsmith's Farm
Land Side
Down's Farm
Yew Tree Farm
Collier's Tenement
Breckfield Stables
Old Field Farm
Within's
Manor House Farm
Garden Centre
Nursery
Ward's Place
Hurst Mill Bridge
The Bungalow
Geo. Hampson's Buildings
Windy Gables Farm
Windy Bank Farm
Bedford Mo
Recreation Ground
School
Pheasantry
Windy Bank Wood
Red House
Gockerhead Farm
Morley's Quarry (Sand Pit)
Morley's Hall
Marsland Green Bridge
Great Fold Bridge
Hugo View
Cricket Ground
Pens
Gas Holder
Works
Sch
PW
Nursery
Hole
Kennels
Hutch
Broadway Bridge
Sandy Pool Cottage
Hook Lane (Pth)
Morson's Moss
Turf Moss
Turf Moss Farm
M62 - R2057
M62 - R2058 (40.2)
M62 - R2059
M62 - R2060
M62 - R2061
Old Carr House
Wood's Farm
CONTINUED ON MAP 22
CONTINUED ON MAP 24
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
highways england
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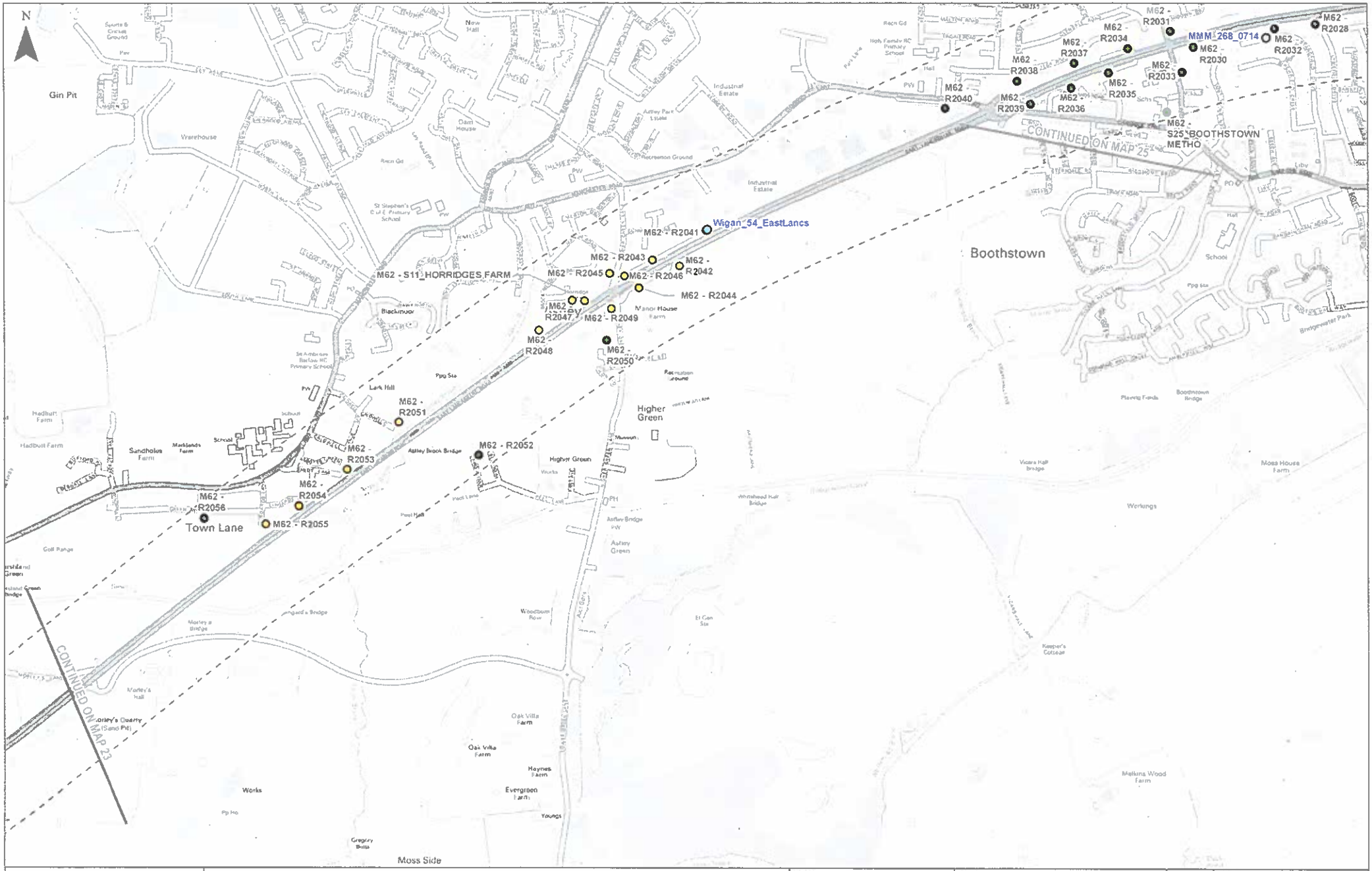
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 23 OF 33
A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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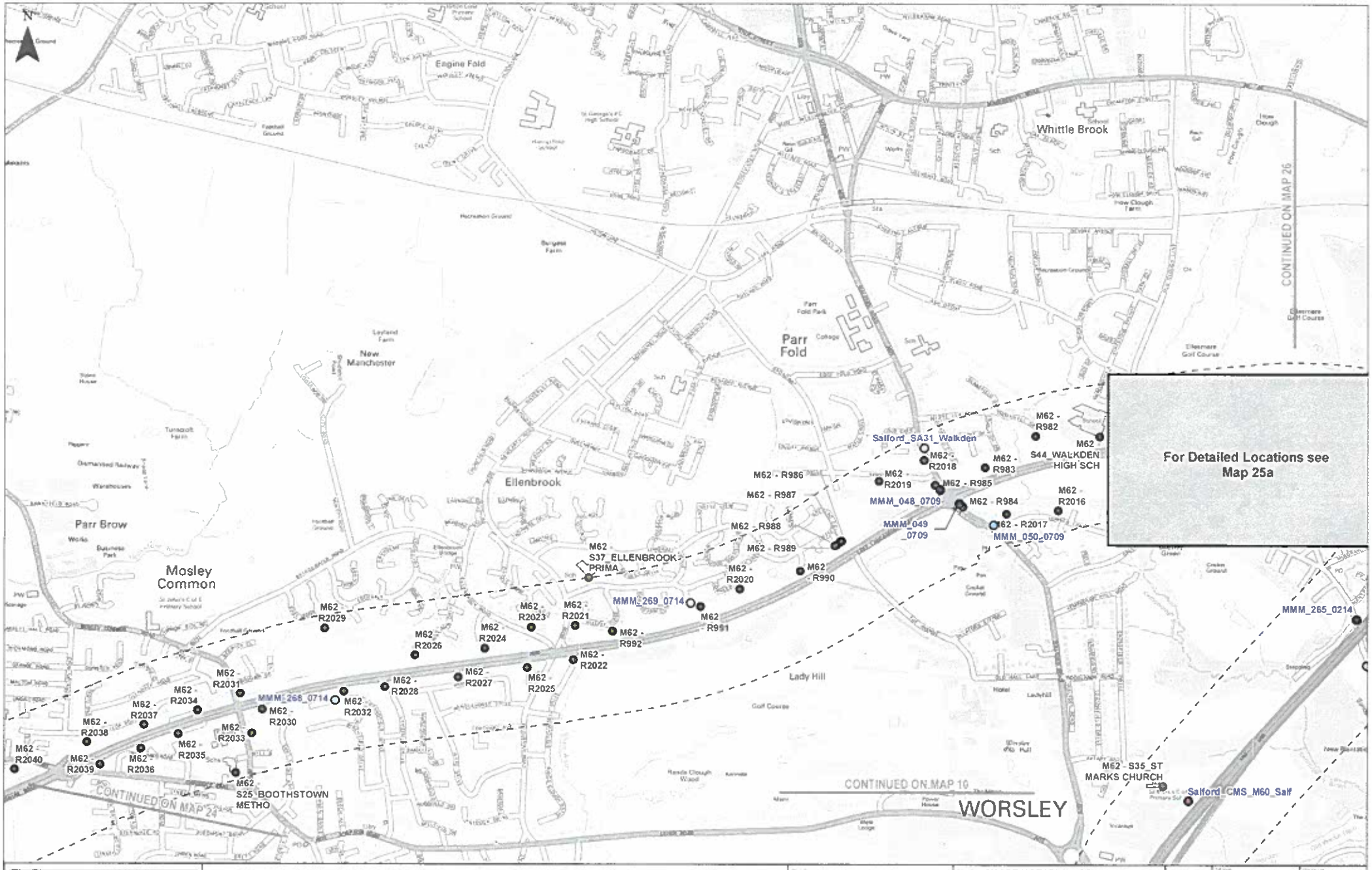
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 24 OF 33

Original Size A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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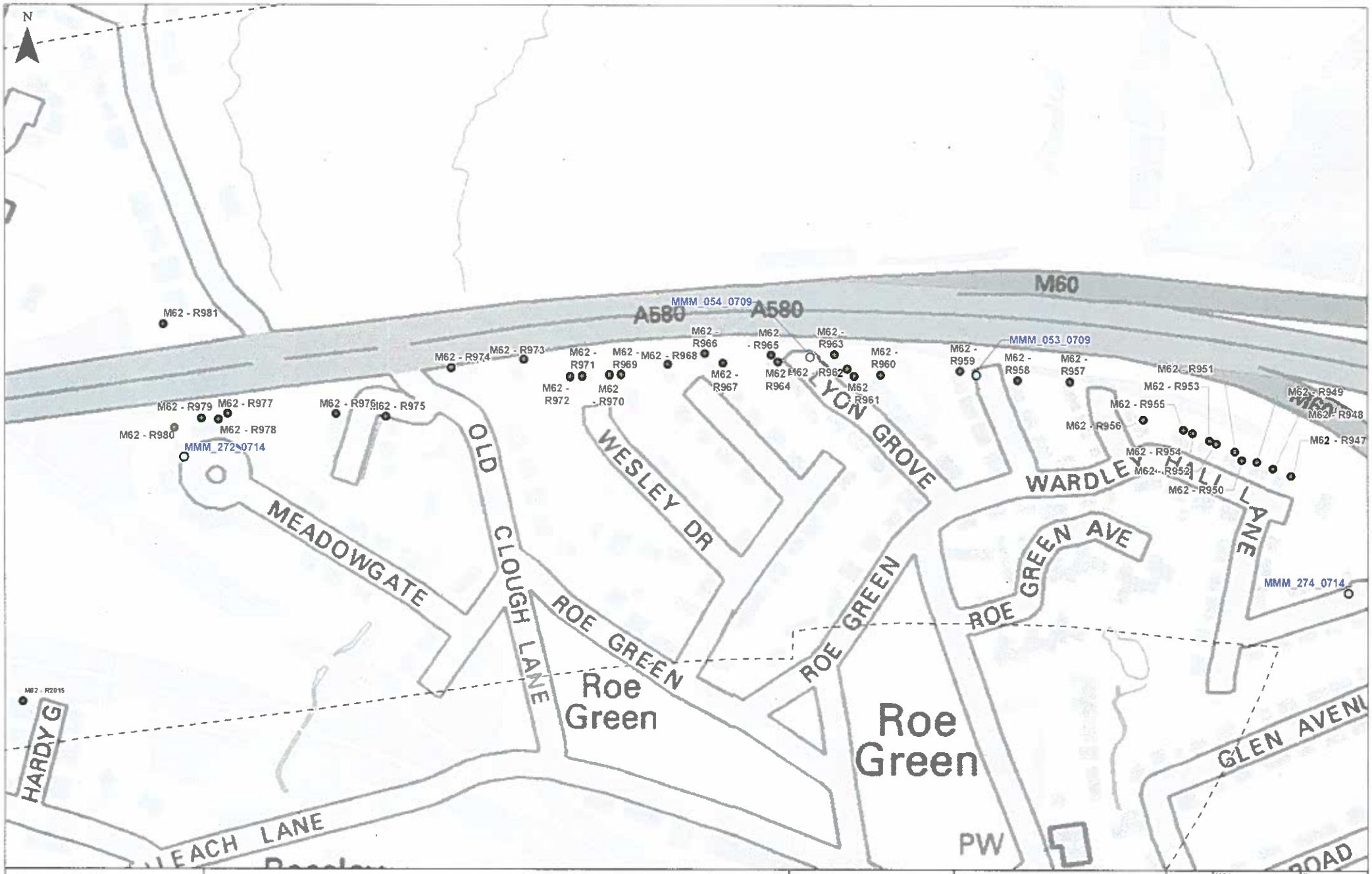
SMART MOTORWAY PROGRAMME
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 25 OF 33

A3



0 50 100
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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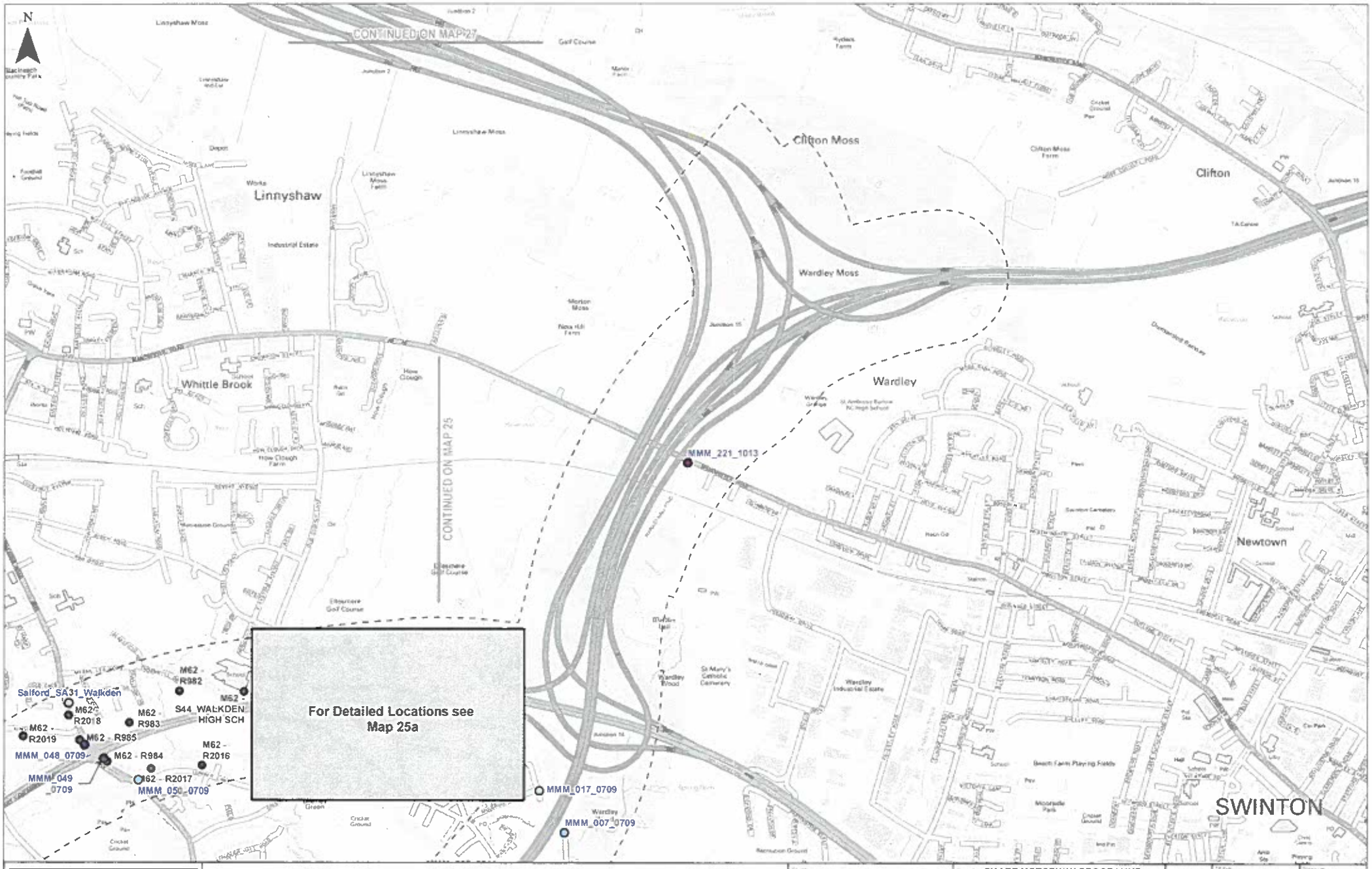
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 25A

A3


N
CONTINUED ON MAP 27
Linnyshaw Moss
Golf Course
Linnyshaw
Industrial Estate
Clifton Moss
Clifton
Wardley Moss
Wardley
Whittle Brook
CONTINUED ON MAP 25
MMM_221_1013
Newtown
SWINTON
Salford_SA31_Walkden
M62 - R2018
M62 - R2019
M62 - R983
M62 - R985
M62 - R982
M62 - S44_WALKDEN HIGH SCH
M62 - R984
M62 - R2016
M62 - R2017
MMM_048_0709
MMM_049 _0709
MMM_050_0709
MMM_017_0709
MMM_007_0709
For Detailed Locations see Map 25a
0 250 500
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ecological Site Modelling Transect
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
highways england
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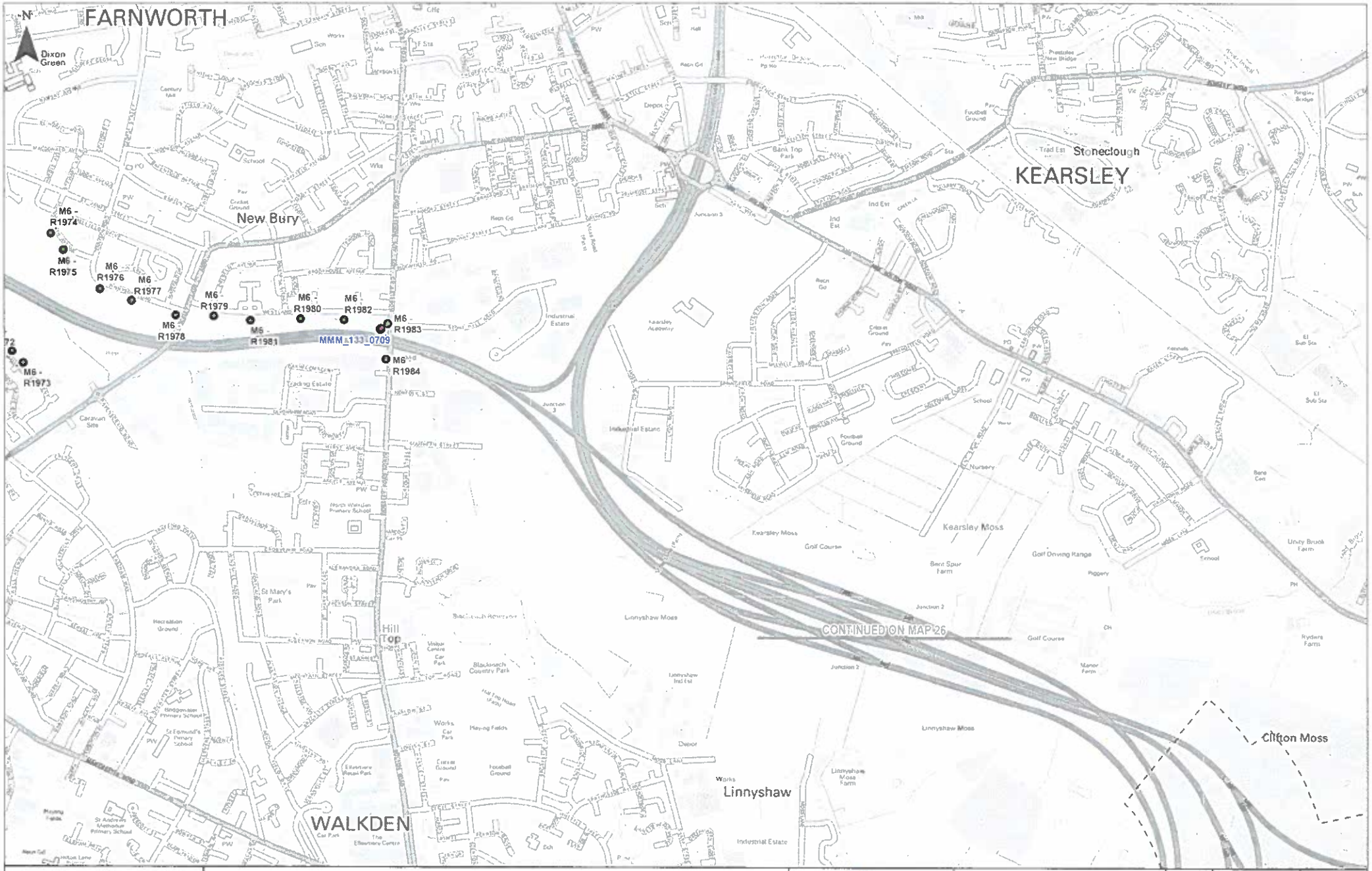
SMART MOTORWAY PROGRAMME
M62 J10 - J12
FIGURE 5.3
AIR QUALITY MODELLING
MAP 26 OF 33
A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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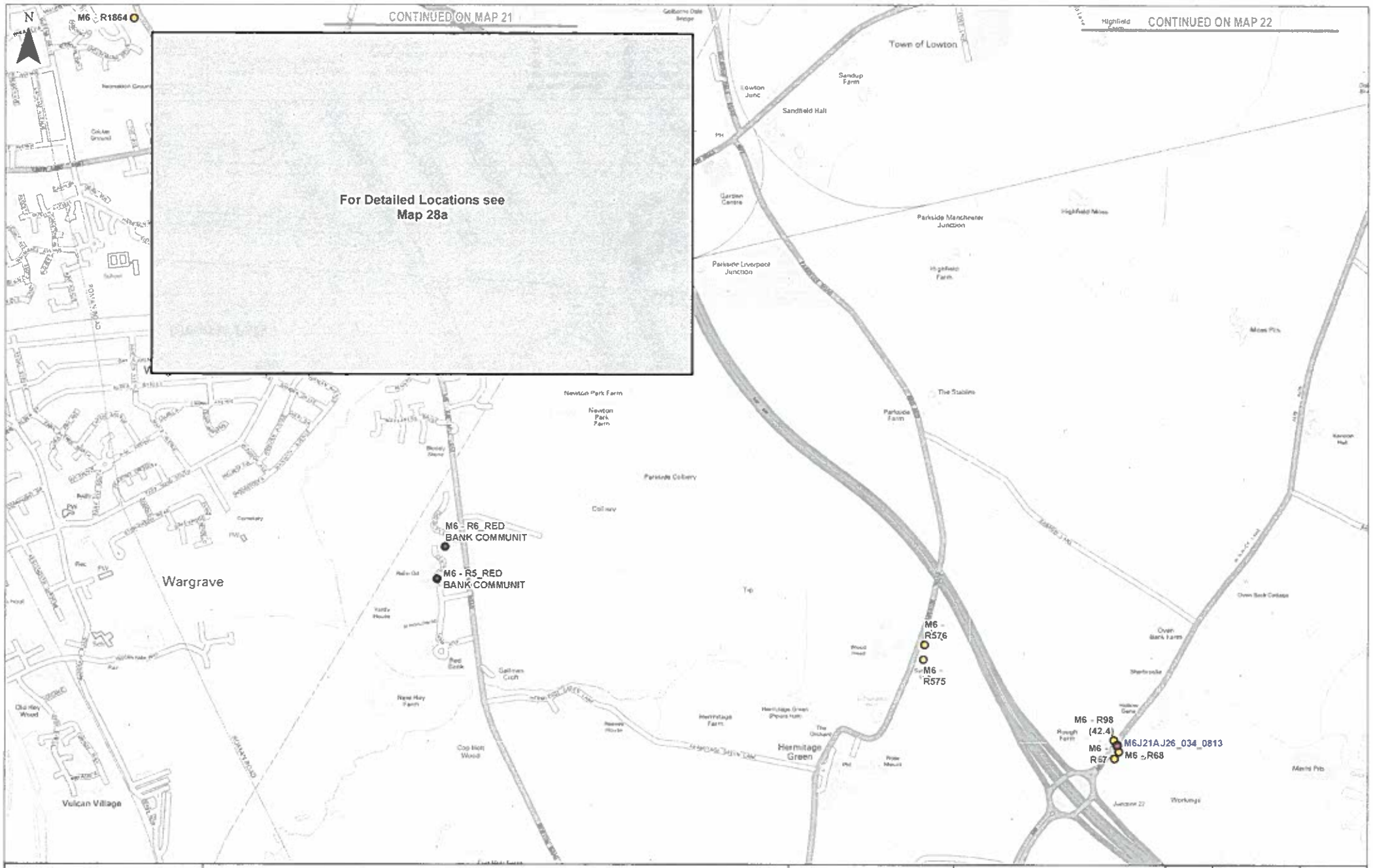
Project: SMART MOTORWAY PROGRAMME —M62 J10 - J12—

Drawing Title: FIGURE 5.3 AIR QUALITY MODELLING MAP 27 OF 33

Original Size: A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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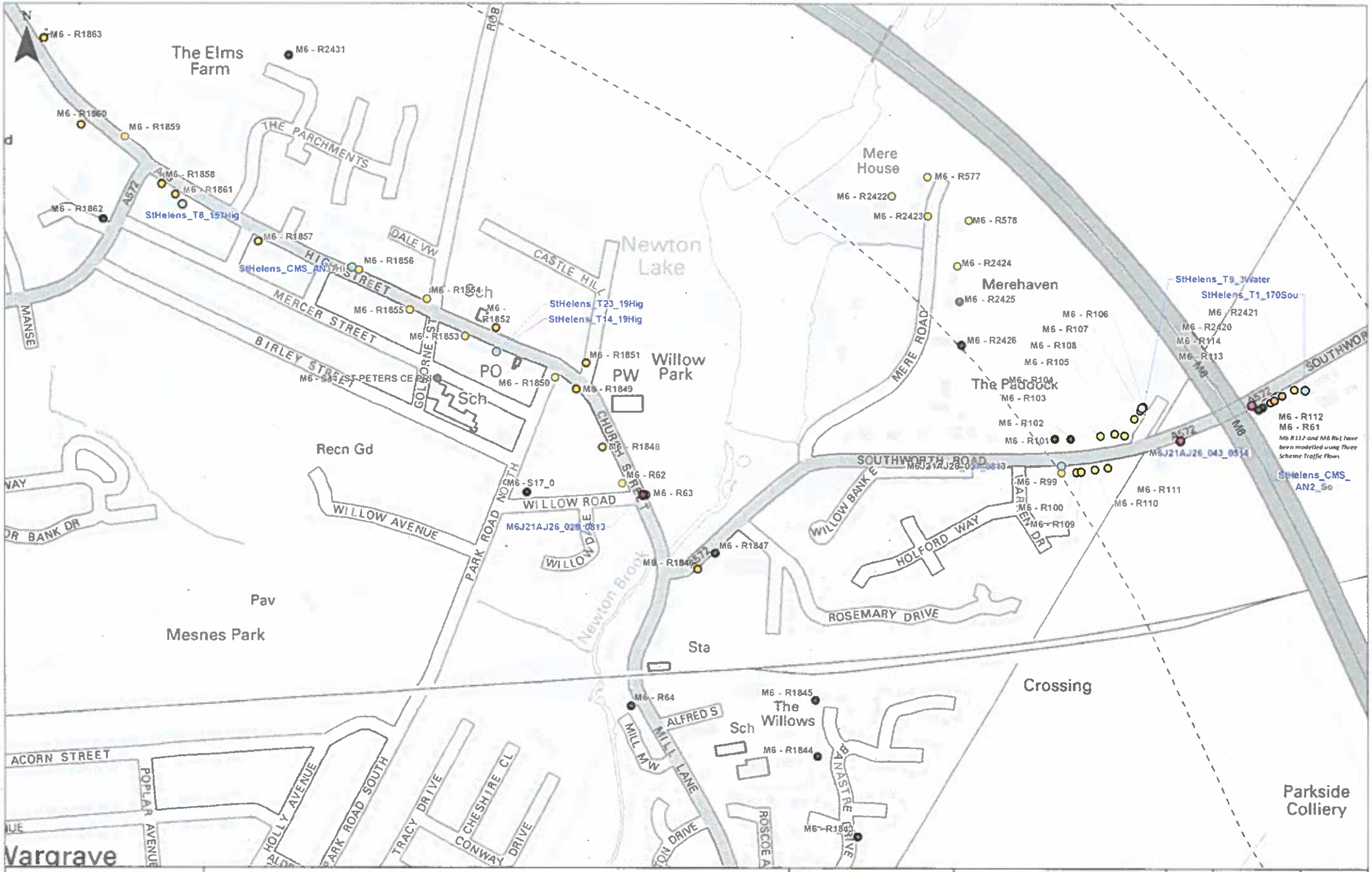
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 28 OF 33

A3


The Elms Farm
M6 - R1863
M6 - R2431
M6 - R1860
M6 - R1859
THE PARCHMENTS
M6 - R1858
M6 - R1861
M6 - R1862
A572
StHelens_T8_15THig
M6 - R1857
DALE VW
M6 - R1856
StHelens_CMS_AN3_Hig
HIGH STREET
M6 - R1854
Sch
CASTLE HILL
Newton Lake
M6 - R1855
M6 - R1852
StHelens_T23_19Hig
StHelens_T14_19Hig
MERCER STREET
M6 - R1853
BIRLEY STREET
M6 - S34
ST PETERS CE PRI
GOLDCRESTS
PO
M6 - R1850
M6 - R1851
PW
Willow Park
M6 - R1849
Sch
CHURCH STREET
M6 - R1848
Recn Gd
M6 - R62
M6 - S17_0
M6 - R63
WILLOW ROAD
WILLOW AVENUE
M6J21AJ26_028_0313
PARK ROAD NORTH
WILLOW DALE
M6 - R1847
M6 - R1846
Newton Brook
Pav
Mesnes Park
Sta
ROSEMARY DRIVE
Mere House
M6 - R577
M6 - R2422
M6 - R2423
M6 - R578
M6 - R2424
Merehaven
M6 - R2425
MERE ROAD
M6 - R106
M6 - R107
M6 - R108
M6 - R105
M6 - R2426
M6 - R104
The Paddock
M6 - R103
M6 - R102
M6 - R101
StHelens_T9_3Water
StHelens_T1_170Sou
M6 - R2421
M6 - R2420
M6 - R114
M6 - R113
M6
SOUTHWORTH ROAD
A572
M6 - R112
M6 - R61
M6 R112 and M6 R61 have been modelled using Three Scheme Traffic Flows
M6J21AJ26_043_0514
StHelens_CMS_AN2_So
M6 - R99
M6 - R100
M6 - R109
M6 - R111
M6 - R110
WILLOW BANK E
HOLFORD WAY
M6 - R64
ALFRED S
Sch
The Willows
M6 - R1845
M6 - R1844
MILL MW
MILL LANE
BANASTRE
M6 - R1843
ACORN STREET
POPLAR AVENUE
HOLLY AVENUE
PARK ROAD SOUTH
TRACY DRIVE
CHESHIRE CL
CONWAY DRIVE
Crossing
Parkside Colliery
Wargrave
0 100 200
Metres
Key
M62 J10 to J12 Air Quality Geographical Study Area
Ramsar
Special Area of Conservation (SAC)
Site of Special Scientific Interest (SSSI)
Scenario Results
Imperceptible
Large
Medium
Small
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
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SMART MOTORWAY PROGRAMME
—M62 J10 - J12—
FIGURE 5.3
AIR QUALITY MODELLING
MAP 28A
A3

0 250 500
Metres

Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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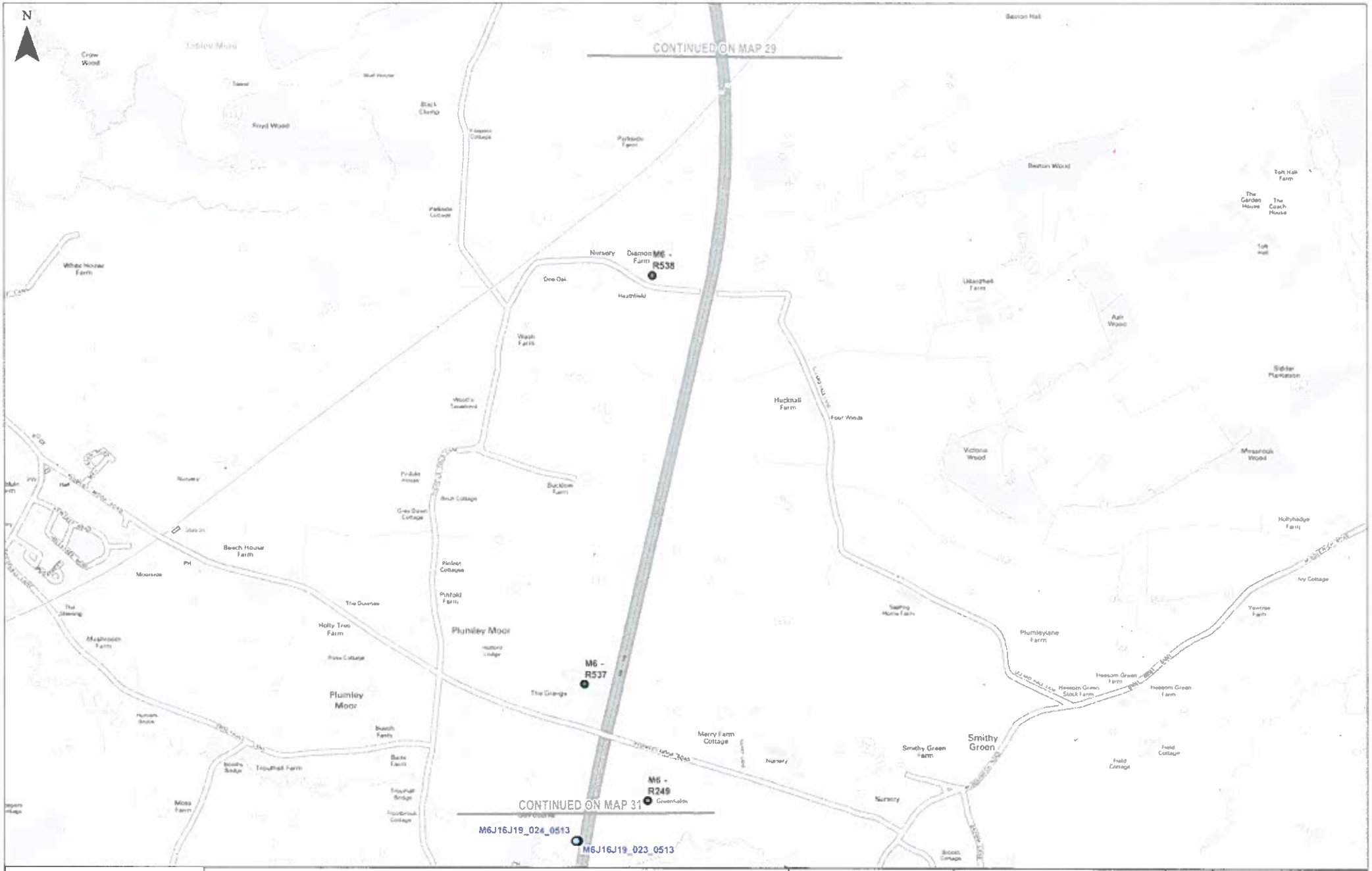
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 29 OF 33

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 30 OF 33

A3

0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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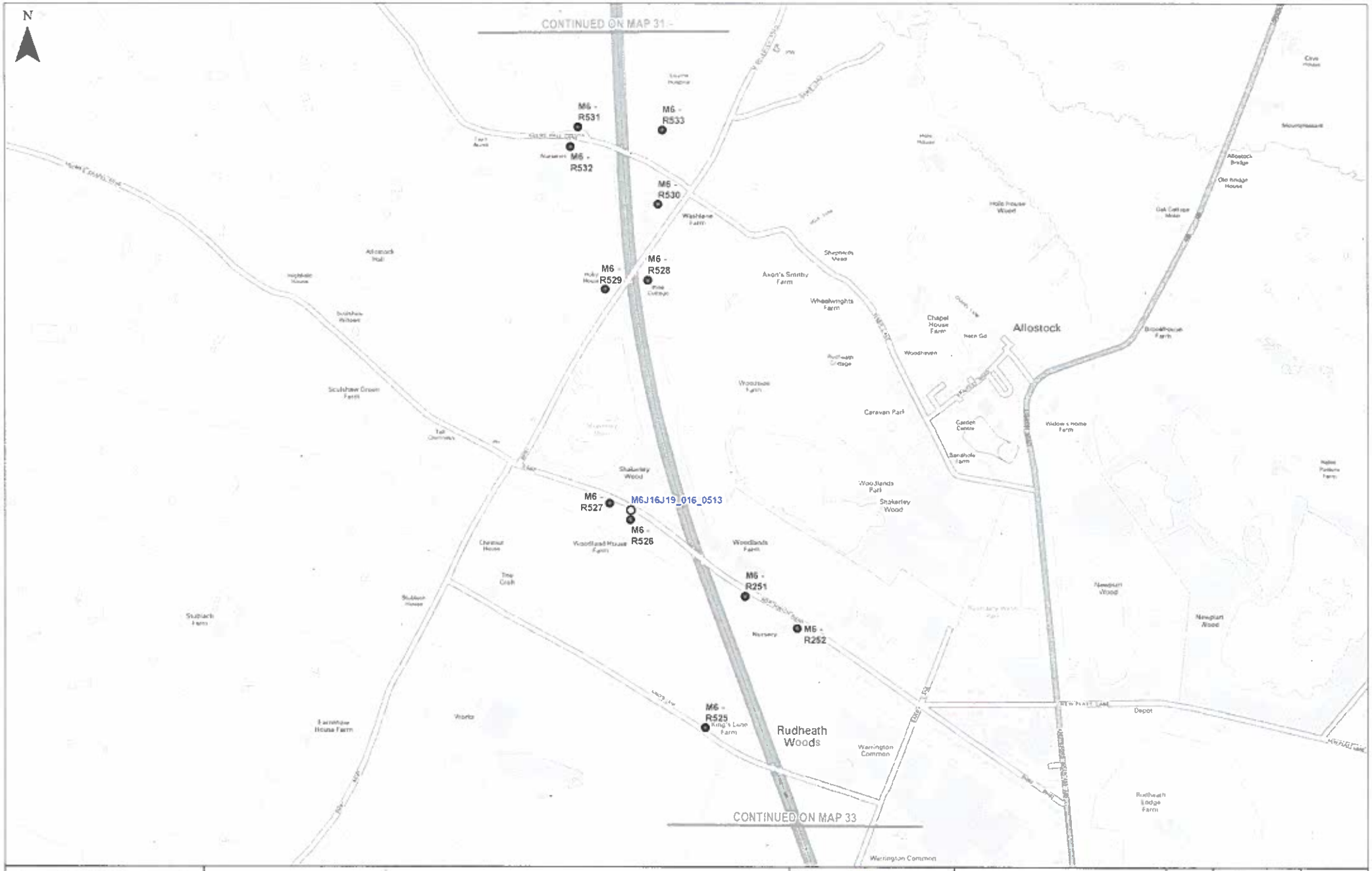
Project: SMART MOTORWAY PROGRAMME
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 31 OF 33

A3



0 250 500
Metres

Key
- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results
- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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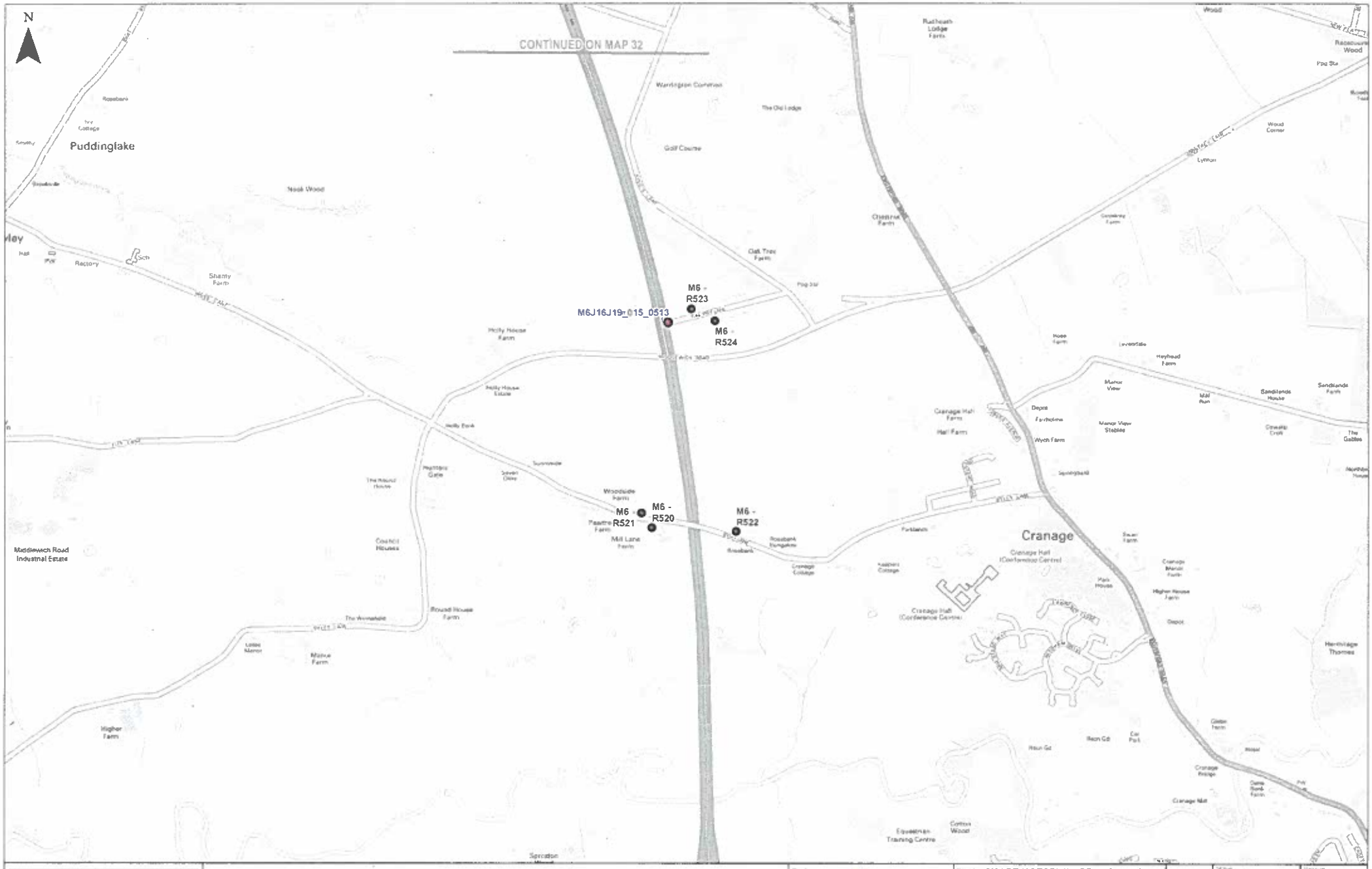
SMART MOTORWAY PROGRAMME
M62 J10 - J12

FIGURE 5.3
AIR QUALITY MODELLING
MAP 32 OF 33

A3



Key

- M62 J10 to J12 Air Quality Geographical Study Area
- Ecological Site Modelling Transect
- Ramsar
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Scenario Results

- Imperceptible
- Large
- Medium
- Small

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

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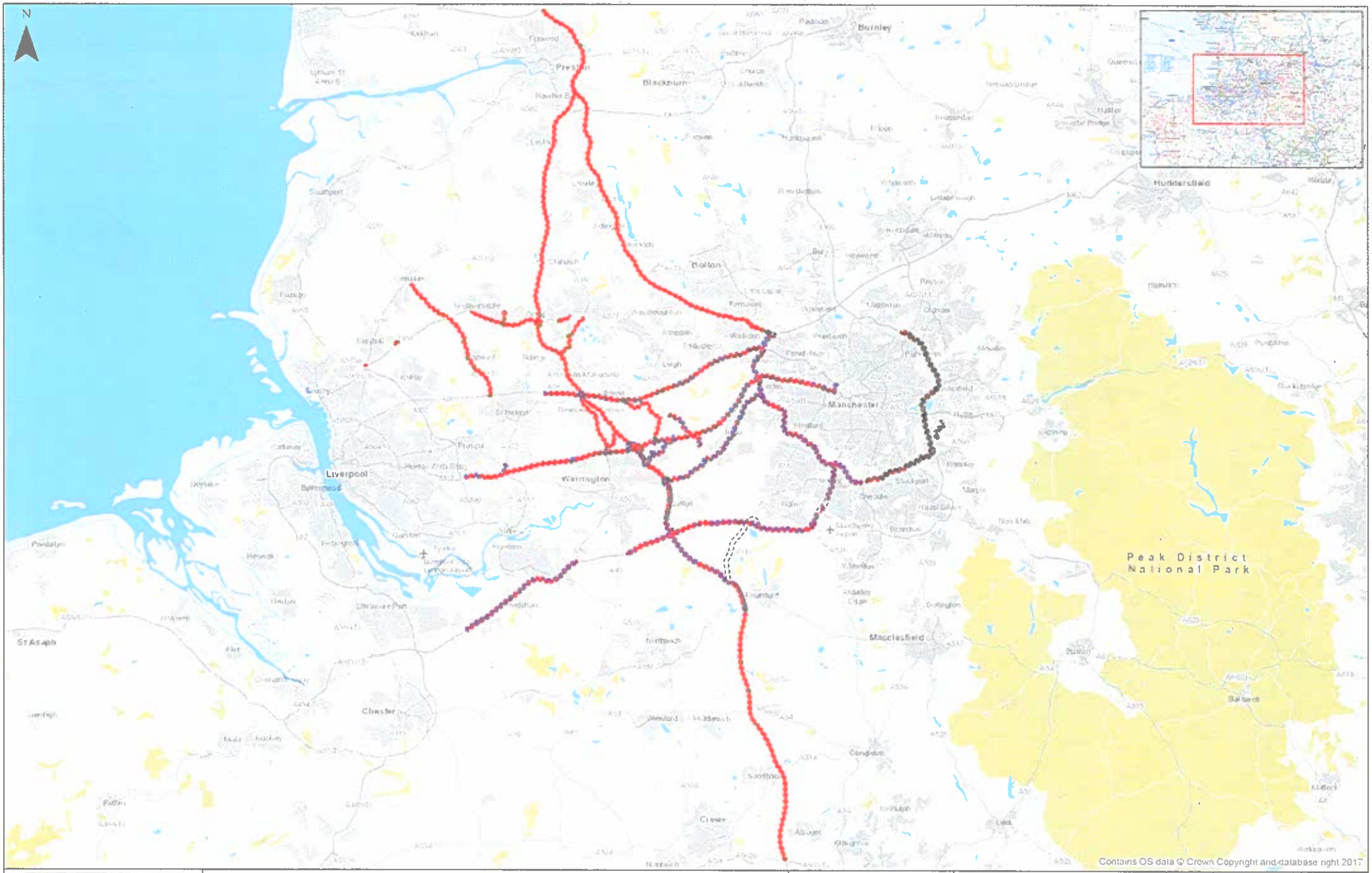
SMART MOTORWAY PROGRAMME
—M62 J10 - J12—

FIGURE 5.3
AIR QUALITY MODELLING
MAP 33 OF 33

A3



0 2.5 5 10 15
Kilometres

Key

- Affected Road Network (Core)
- M60 J24-4 Air quality Geographical Study Area
- M56 J6-8 Air Quality Geographical Study Area
- M62 J10-12 Air Quality Geographical Study Area
- M6 J21a to 26 Air Quality Geographical Study Area

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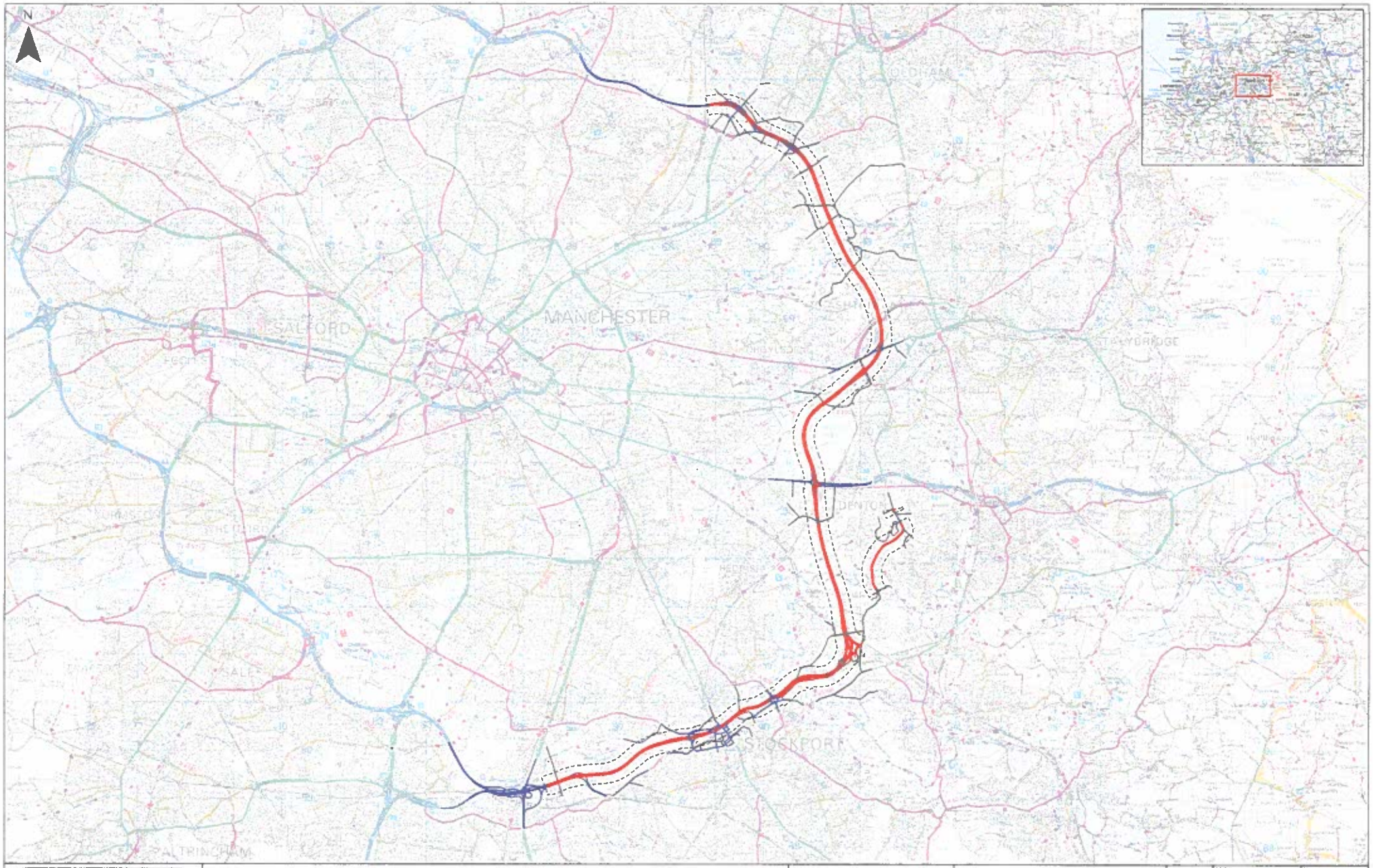
SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.1
STUDY AREA (ALL SCHEMES)

Status: DRAFT
Revision: 0
Scale: 1:325,000
Date: 04/07/2018
Drawn by: [illegible]
Checked by: [illegible]
Approved by: [illegible]
Original Size: A3



Key

- Affected Road Network (M60 Only)
- Modelled Road Network
- M60 J24-4 Air quality Geographical Study Area

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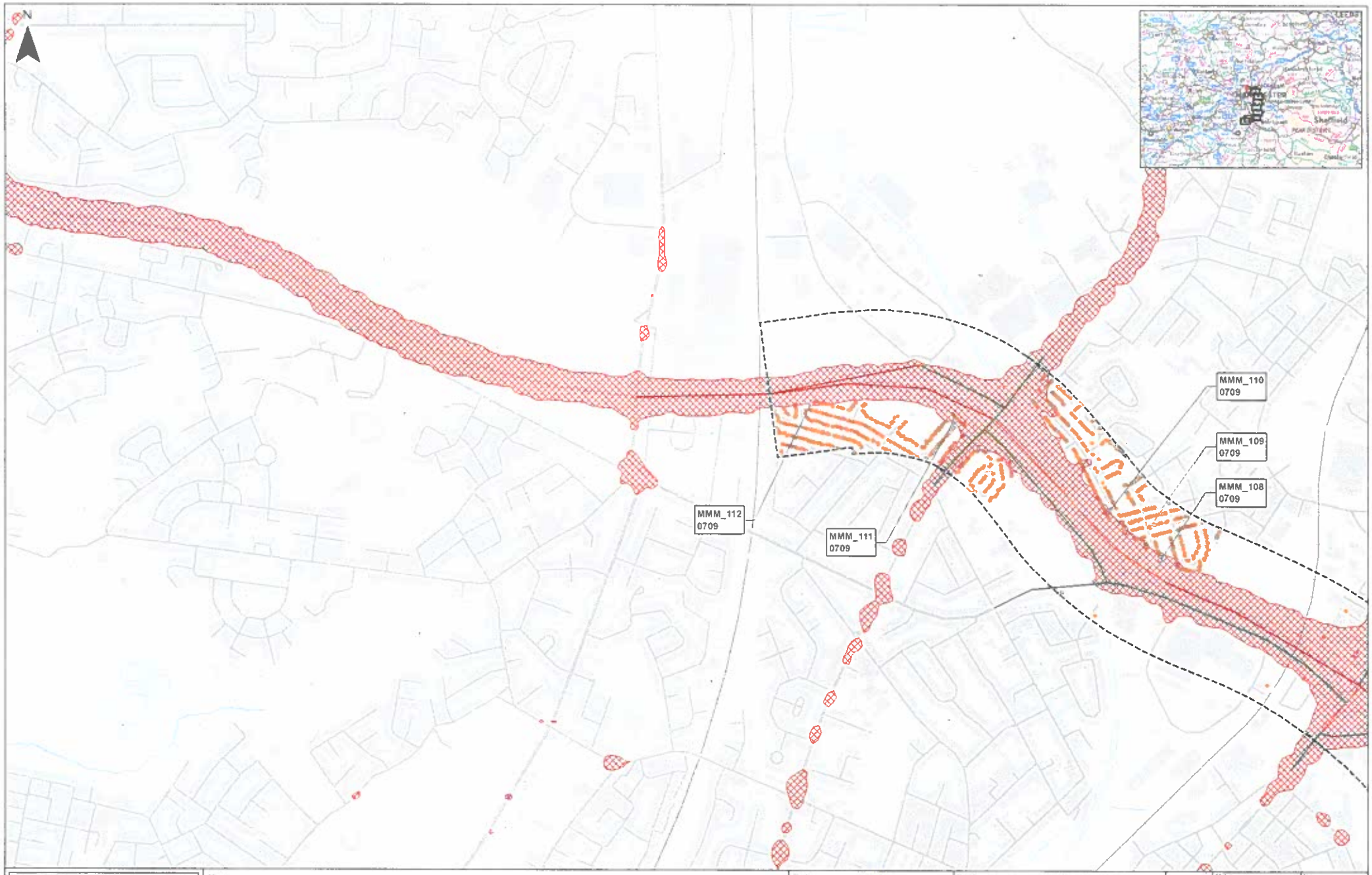
SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.2
M60 J24-4 GEOGRAPHICAL STUDY AREA

Original Size A3



0 250 500
Metres

Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links

- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

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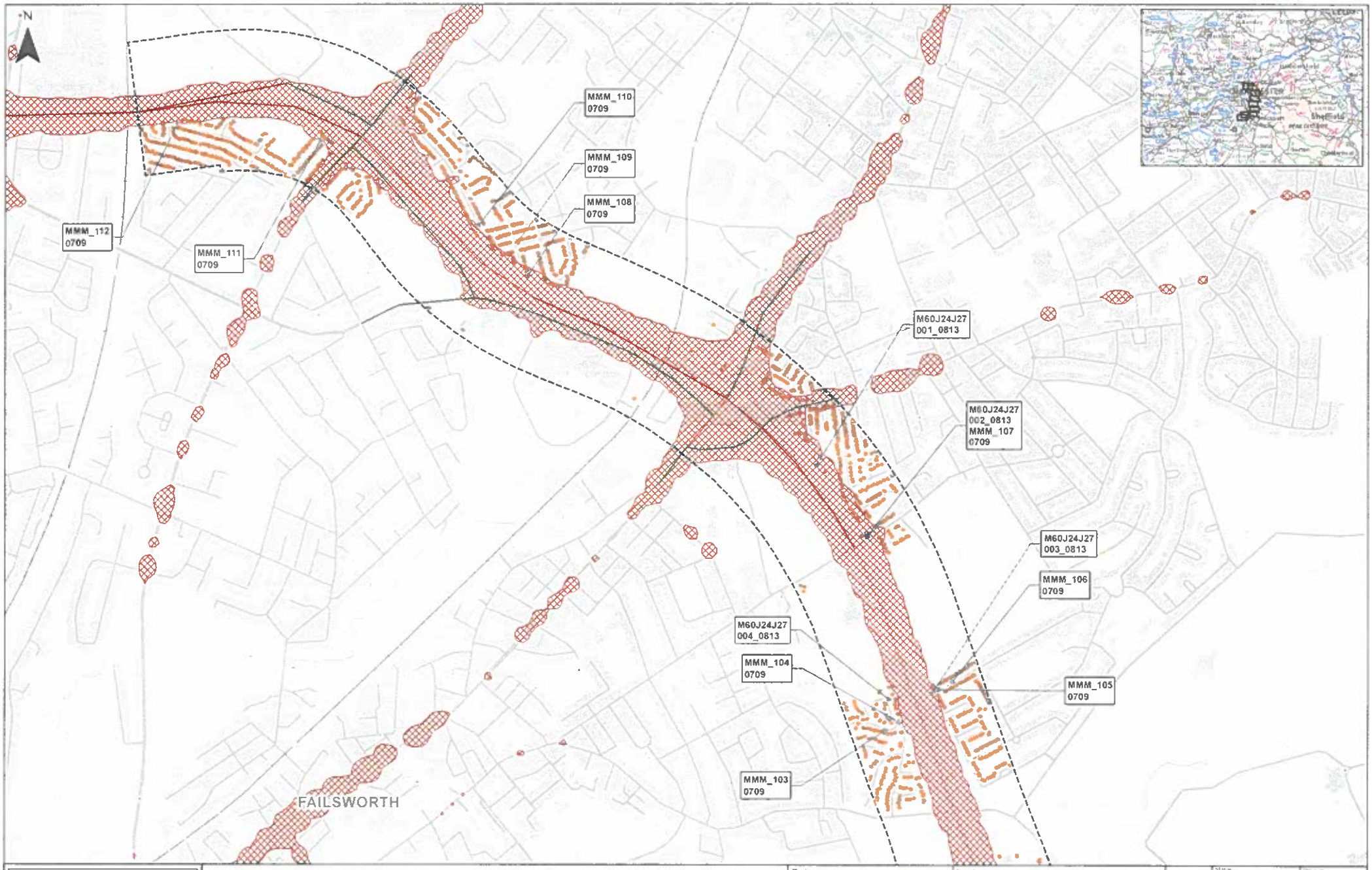
SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 1 OF 9

Status: DRAFT
Revision: P
Scale: 1:10,000
Date: 30/01/2018
Drawn by: RM
Checked by: RM
Approved by: SP
Original Size: A3



0 250 500
Metres

Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links
- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

Client: highways england

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Project: SMART MOTORWAY PROGRAMME
M60 J24 to J4

Drawing Title: FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 2 OF 9

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Checked by: RM
Approved by: SP
Original Size: A3
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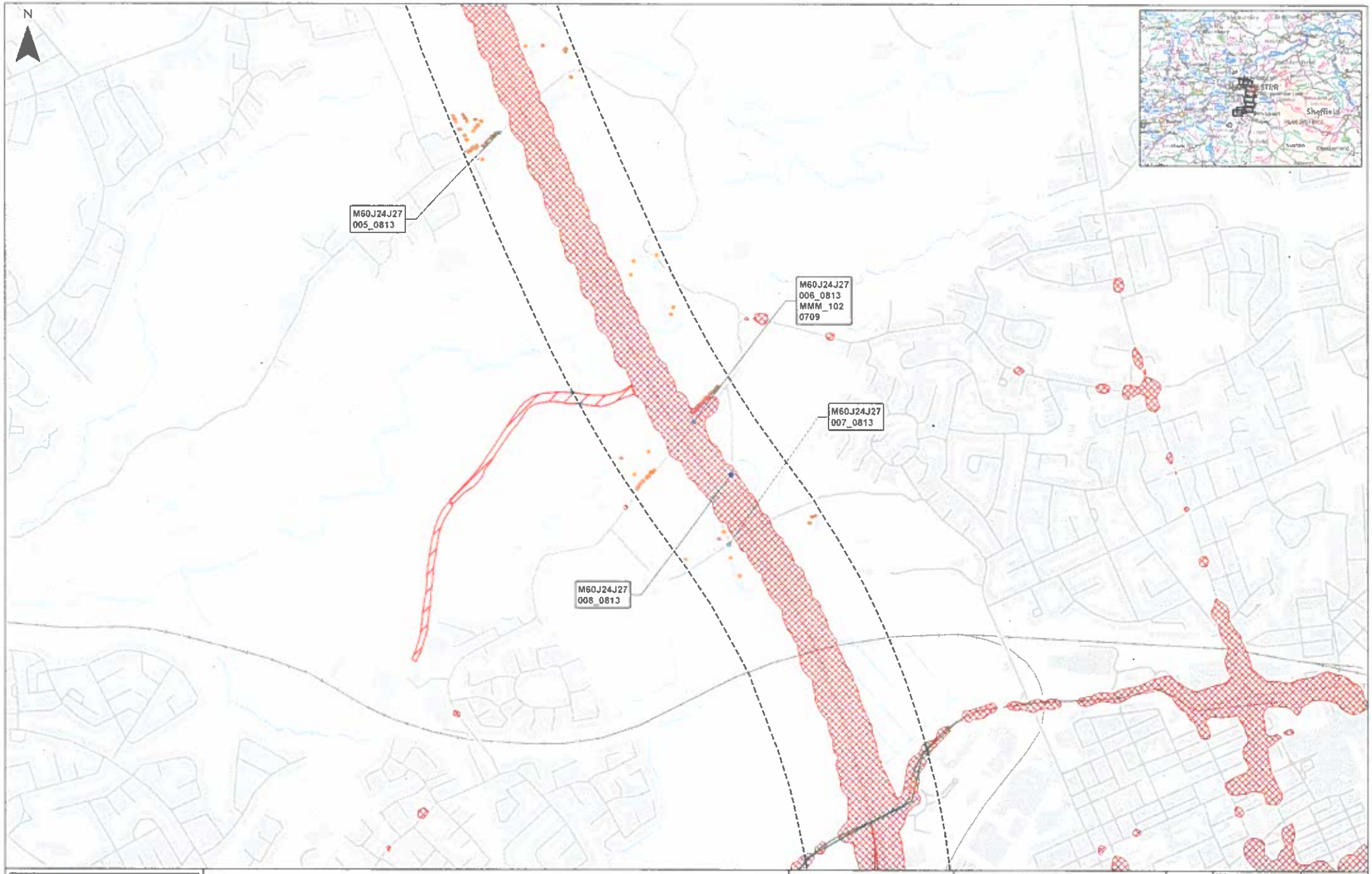
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008_0813
Sheffield
0
250
500
Metres
Key
M60 J24-4 Air Quality Geographical Study Area
Air Quality Management Areas
Sensitive Receptors
AQ Monitoring Locations
<30 µg/m³
30-36 µg/m³
36-40 µg/m³
40-44 µg/m³
>44 µg/m³
PCM Model Exceedances (2020)
PCM Model Exceedances (2015)
PCM Model Links
Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)
highways england
JACOBS ATKINS
SMART MOTORWAY PROGRAMME
M60 J24 to J4
FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 3 OF 9
DRAFT
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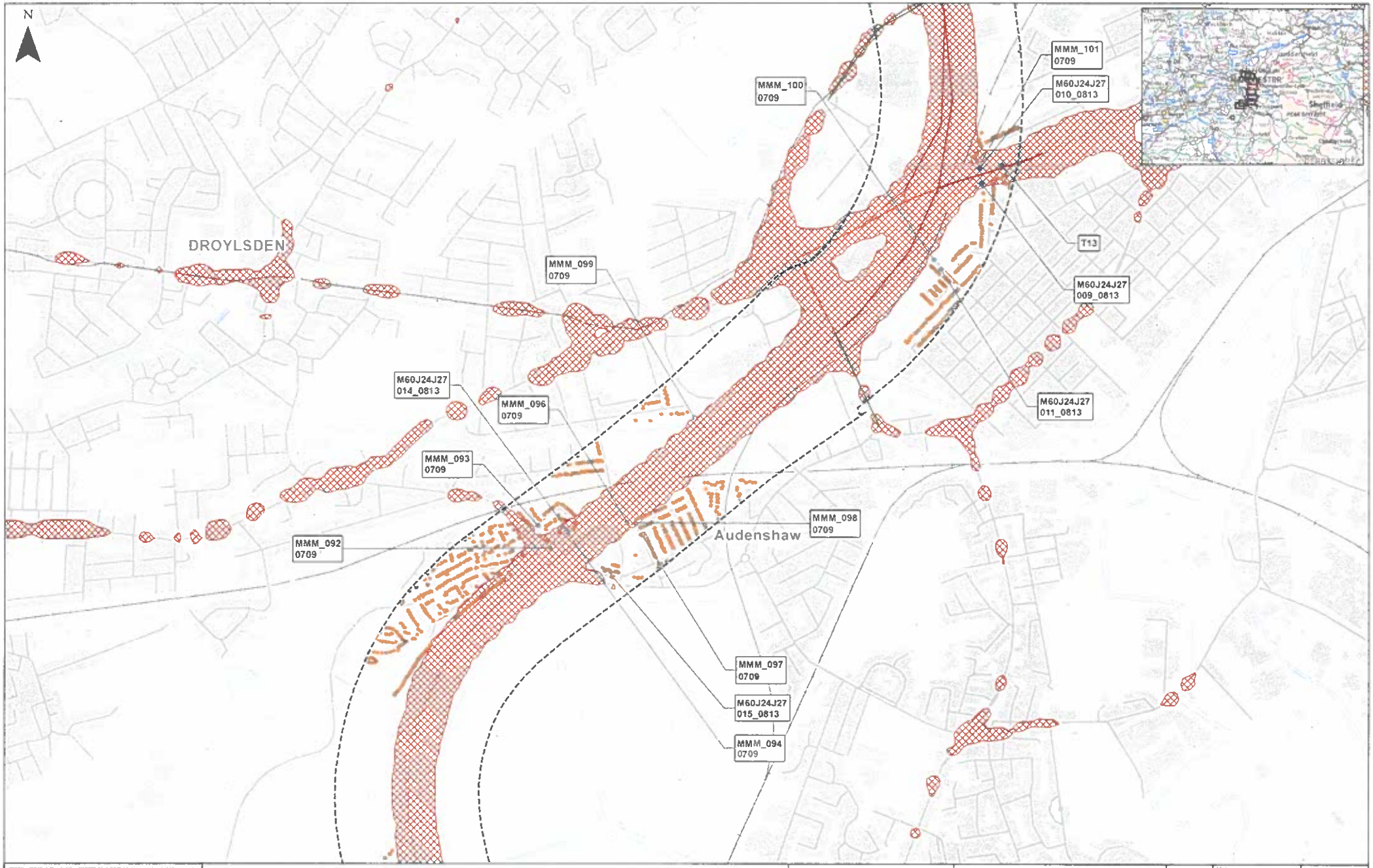

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Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links
- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 4 OF 9

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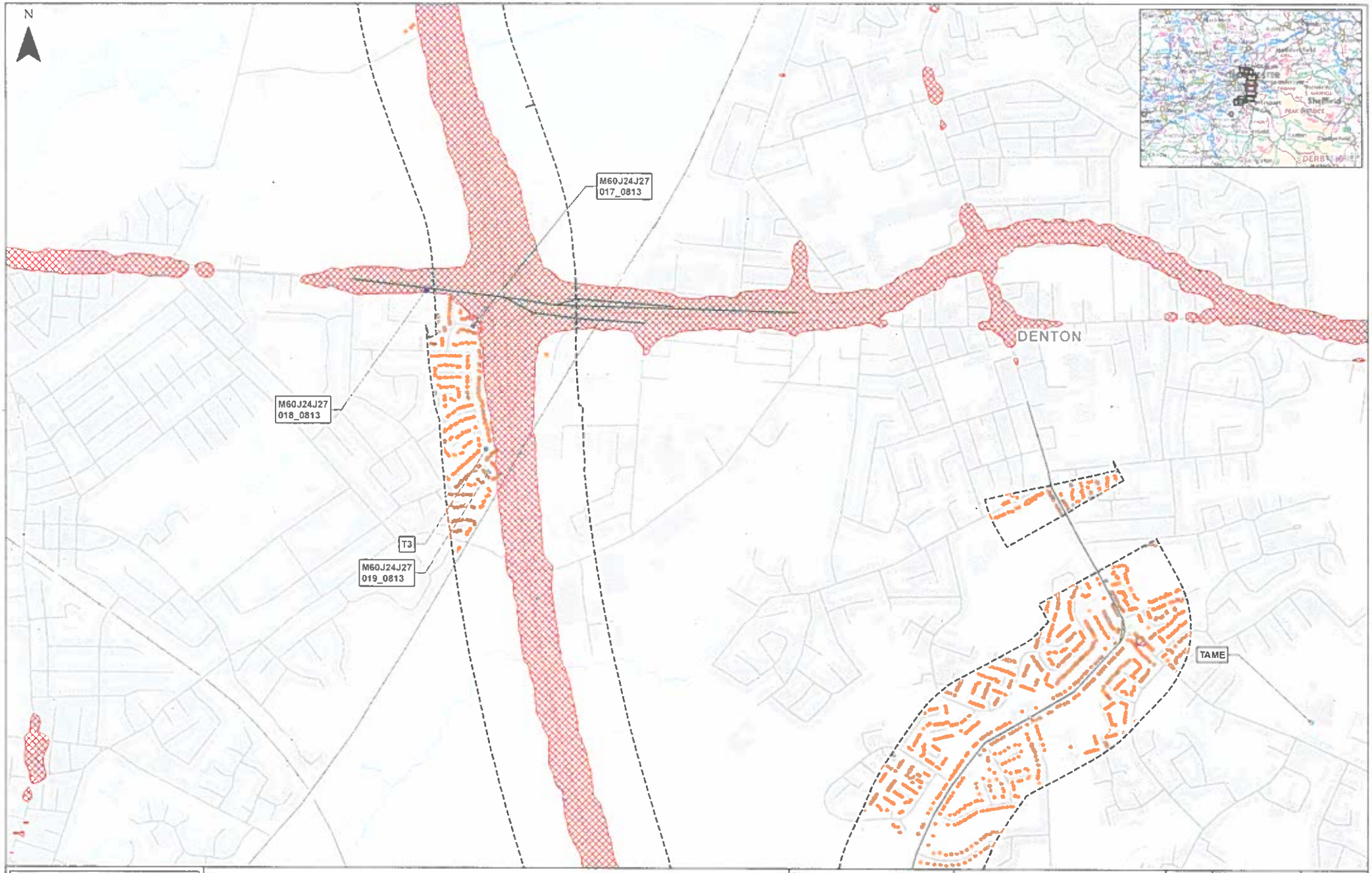

0 250 500
Metres

Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links

- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 5 OF 9

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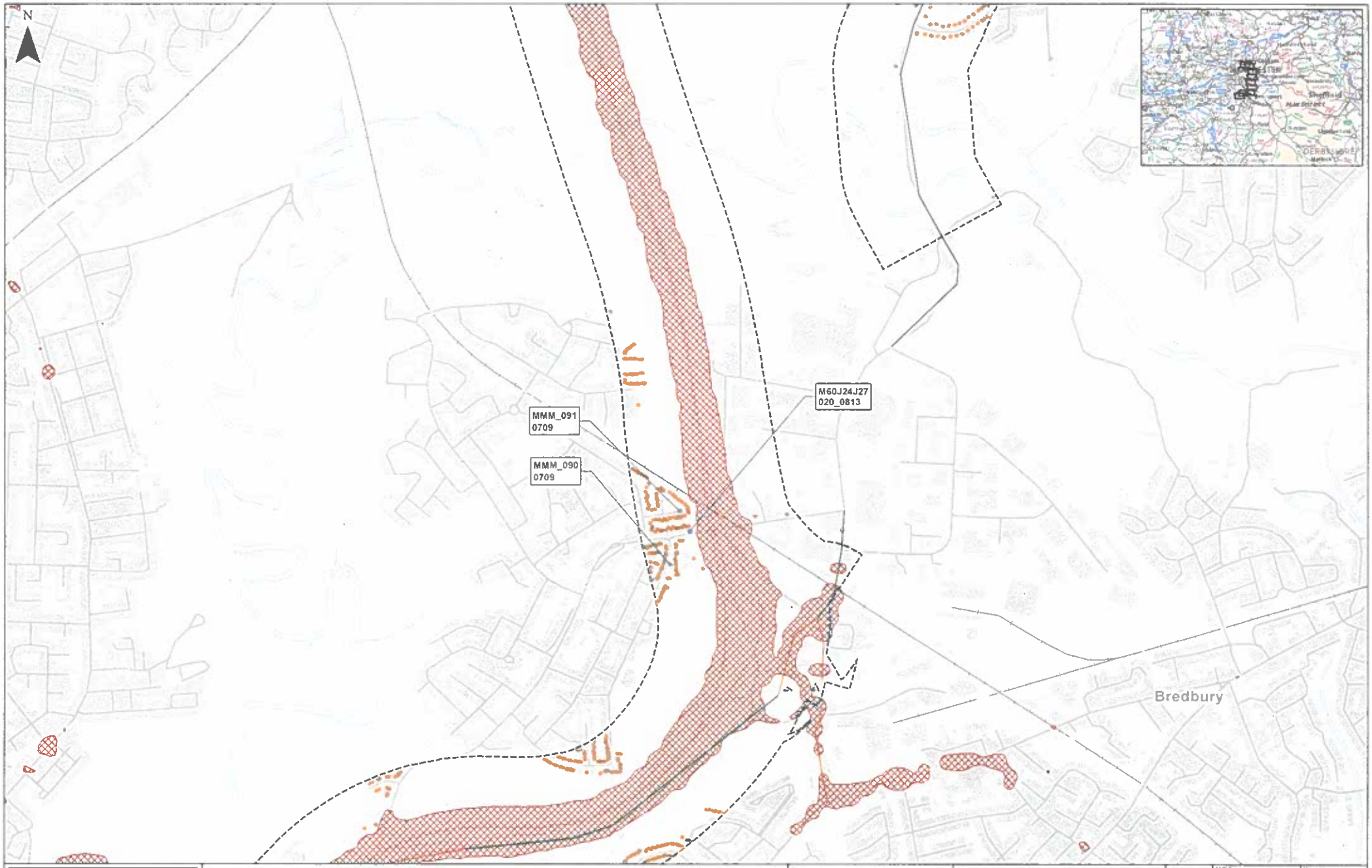

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Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors
- AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³
- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links
- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 6 OF 9

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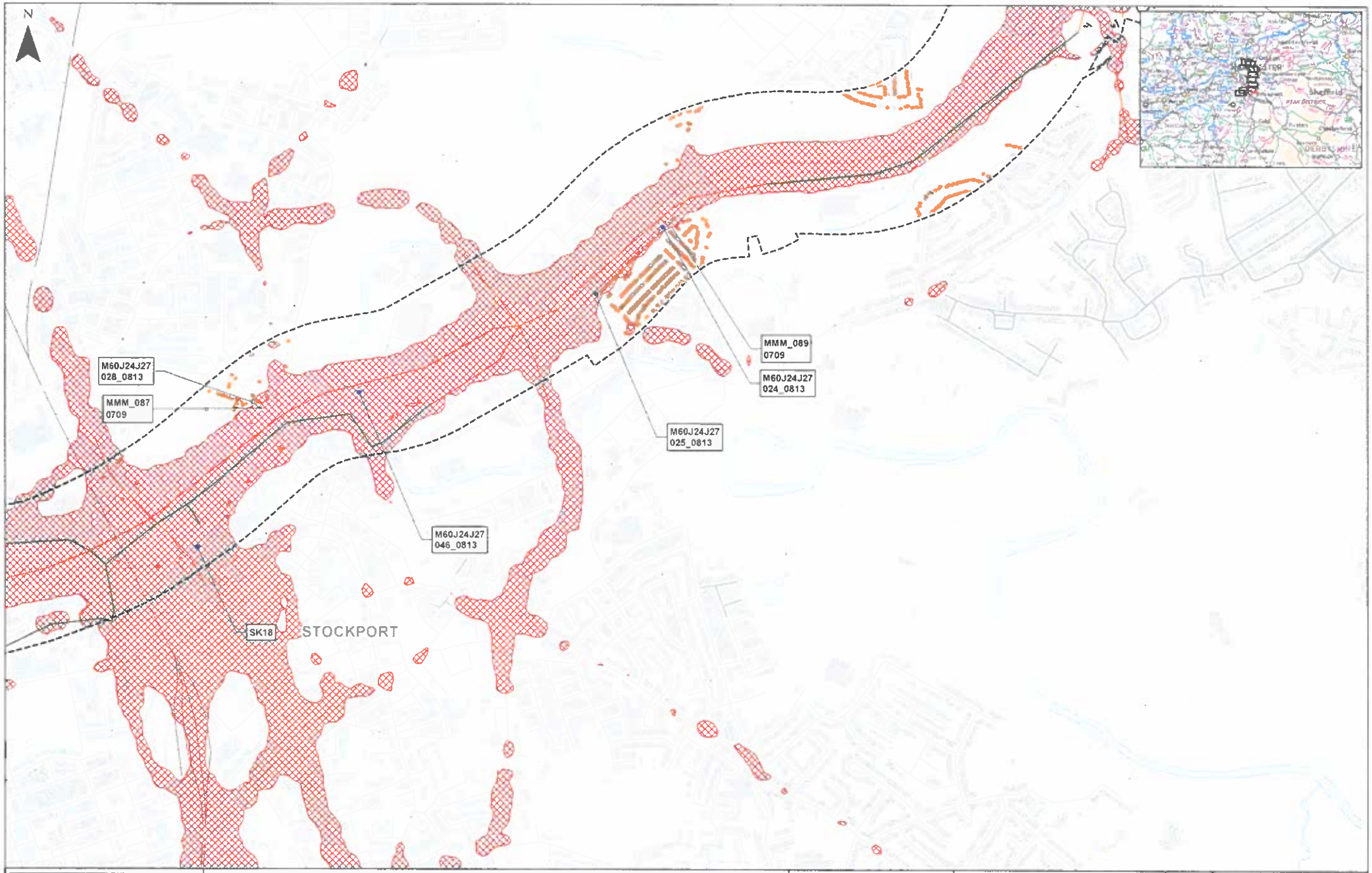

0 250 500
Metres

Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links
- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 7 OF 9

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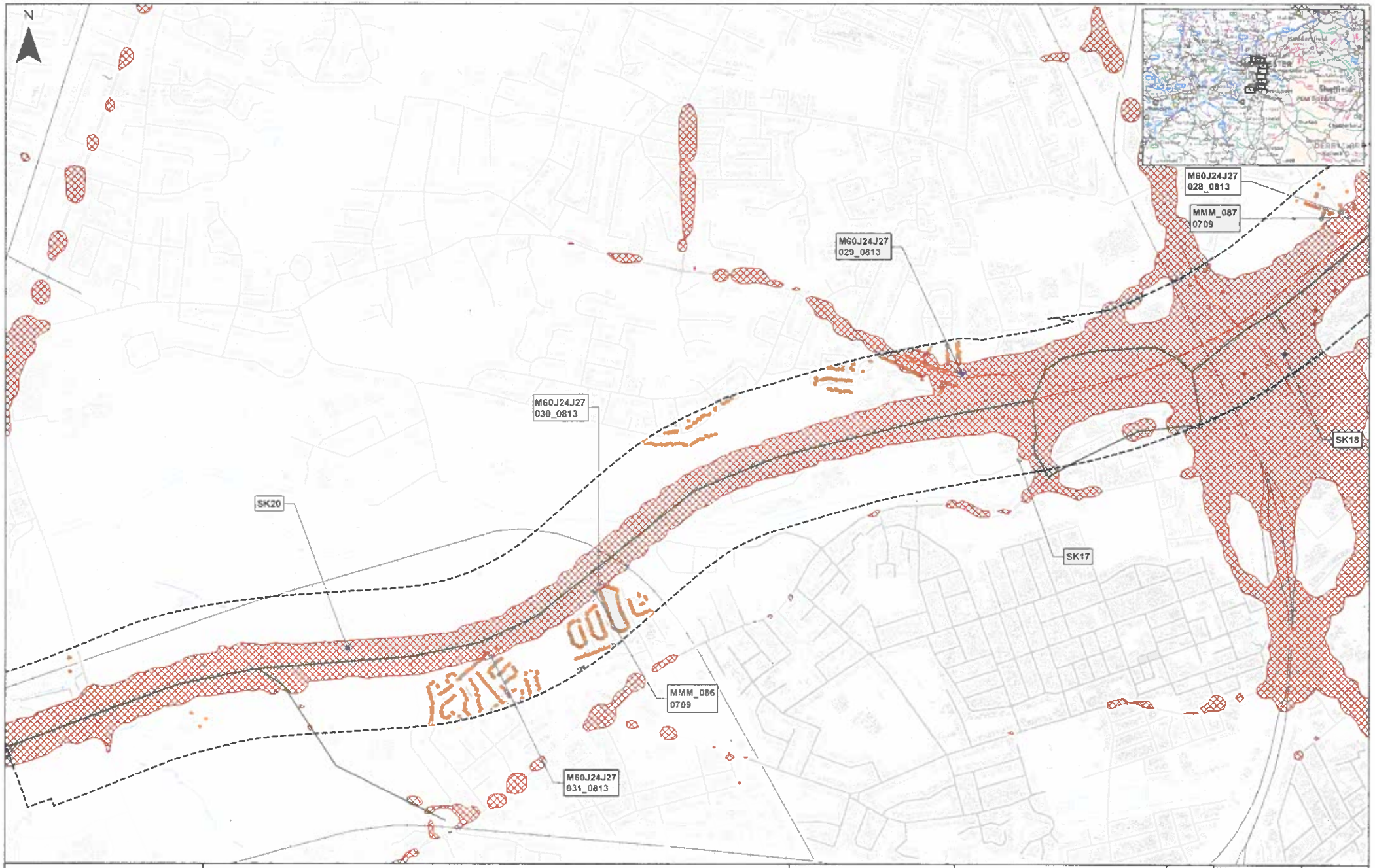

0 250 500
Metres

Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors

AQ Monitoring Locations

- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links
- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 8 OF 9

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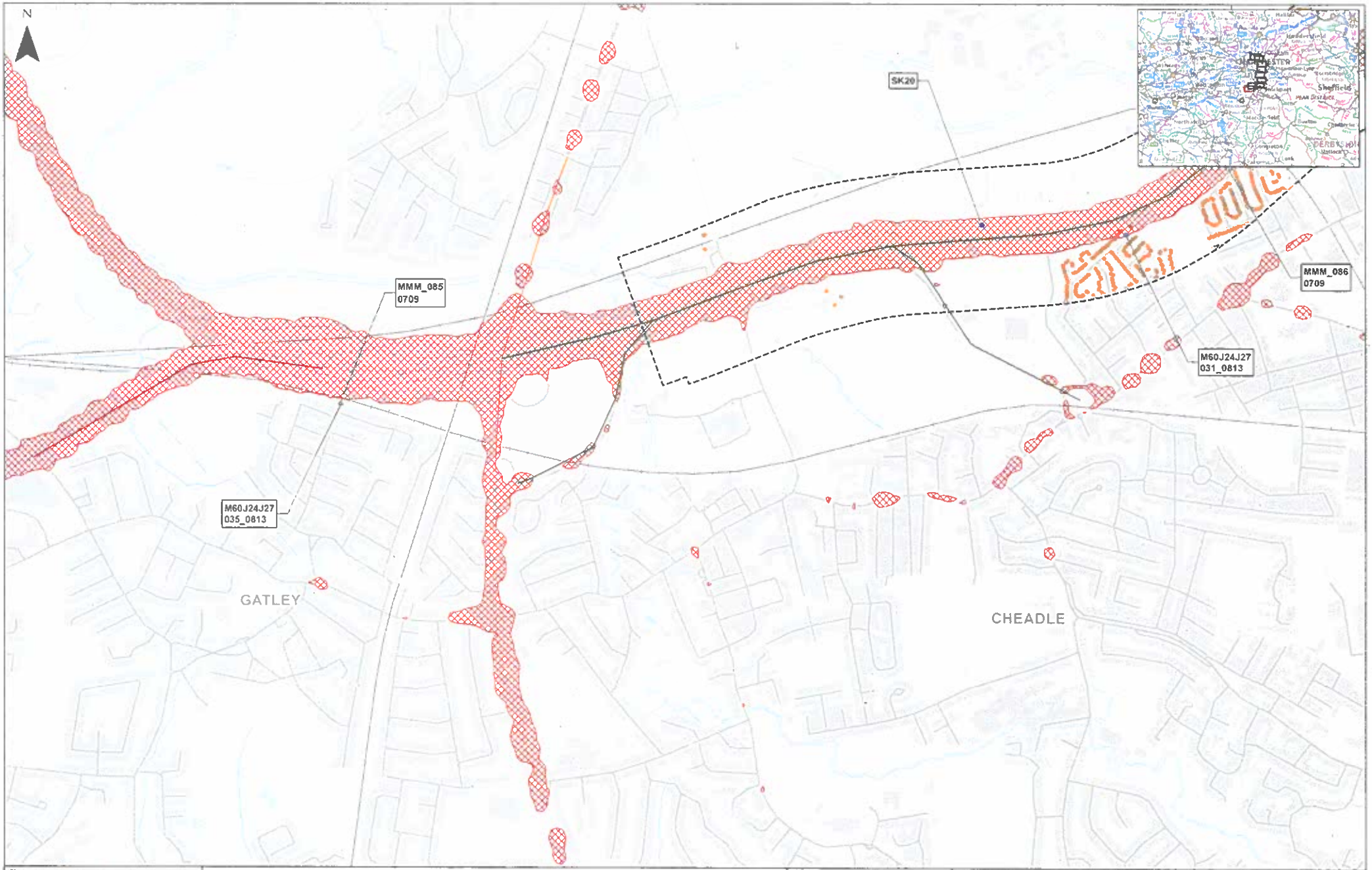

0 250 500
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Key

- M60 J24-4 Air Quality Geographical Study Area
- Air Quality Management Areas
- Sensitive Receptors

AQ Monitoring Locations
- <30 µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

- PCM Model Exceedances (2020)
- PCM Model Exceedances (2015)
- PCM Model Links
- Hollinwood Branch Canal Site of Special Scientific Interest (SSSI)

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.3
AIR QUALITY CONSTRAINTS AND MONITORING DATA (M60 J24-4 AIR QUALITY GEOGRAPHICAL STUDY AREA)
SHEET 9 OF 9

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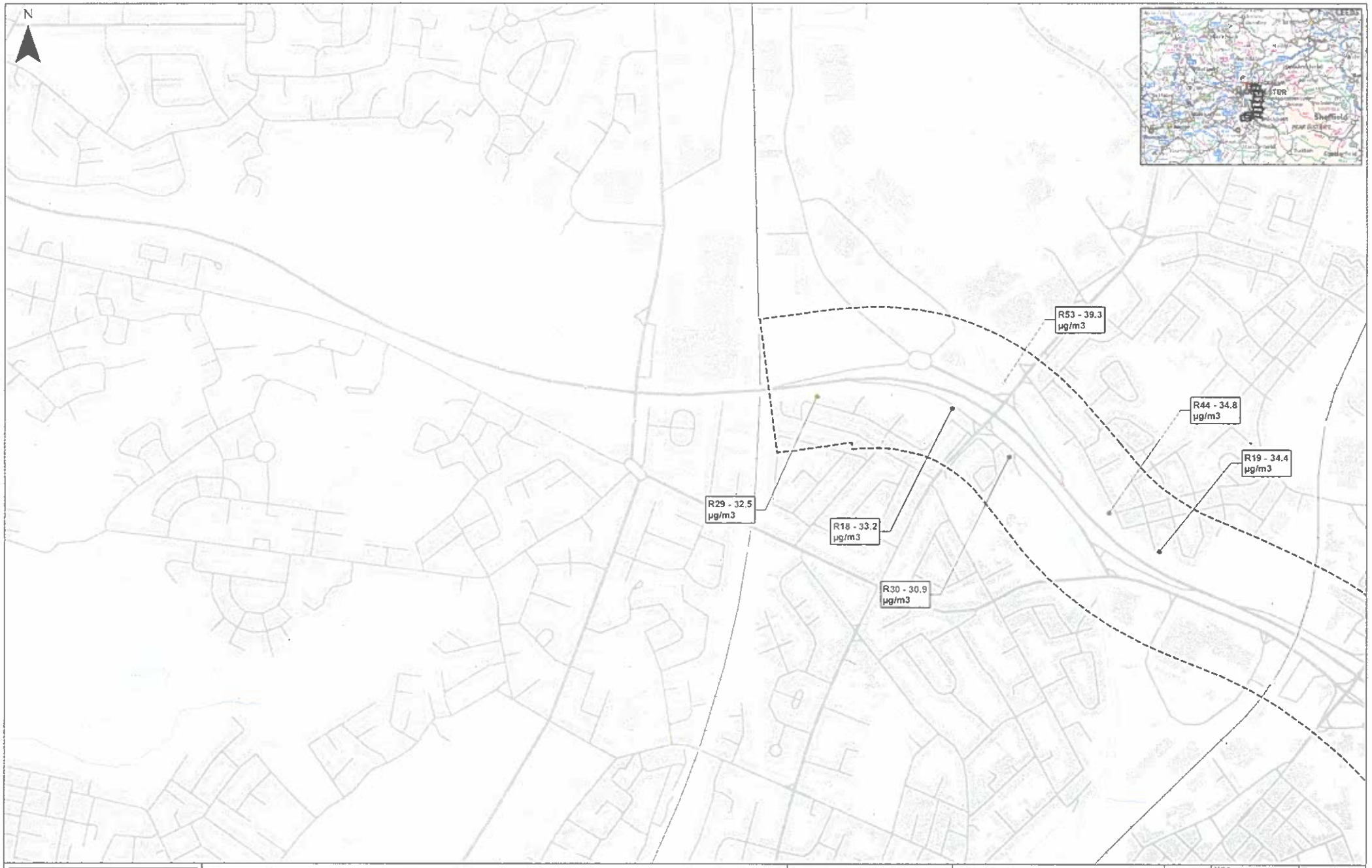

Key

M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites

- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results

- <30µg/m
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Model Domains

- M60 in Cutting
- Hollinwood Branch Canal SSSI

Client: highways england

JACOBS ATKINS

Project: SMART MOTORWAY PROGRAMME
M60 J24 to J4

Drawing Title:
FIGURE 5.4
AIR QUALITY MODELLING – BASE
SHEET 1 OF 9

Status: DRAFT

Scale: 1:10000

Drawn by: LT

Checked by: MM

Approved by: SH

Original Size: A3

Rev	Drawn	Date	Purpose of Issue	Drawn	Checked	Approved
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0 250 500
Metres

Key

M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Model Domains
- M60 in Cutting

Hollinwood Branch Canal SSSI

Client: highways england

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Project: SMART MOTORWAY PROGRAMME
M60 J24 to J4

Drawing Title:
FIGURE 5.4
AIR QUALITY MODELLING – BASE
SHEET 2 OF 9

Status: DRAFT
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Drawn by: MR
Checked by: MR
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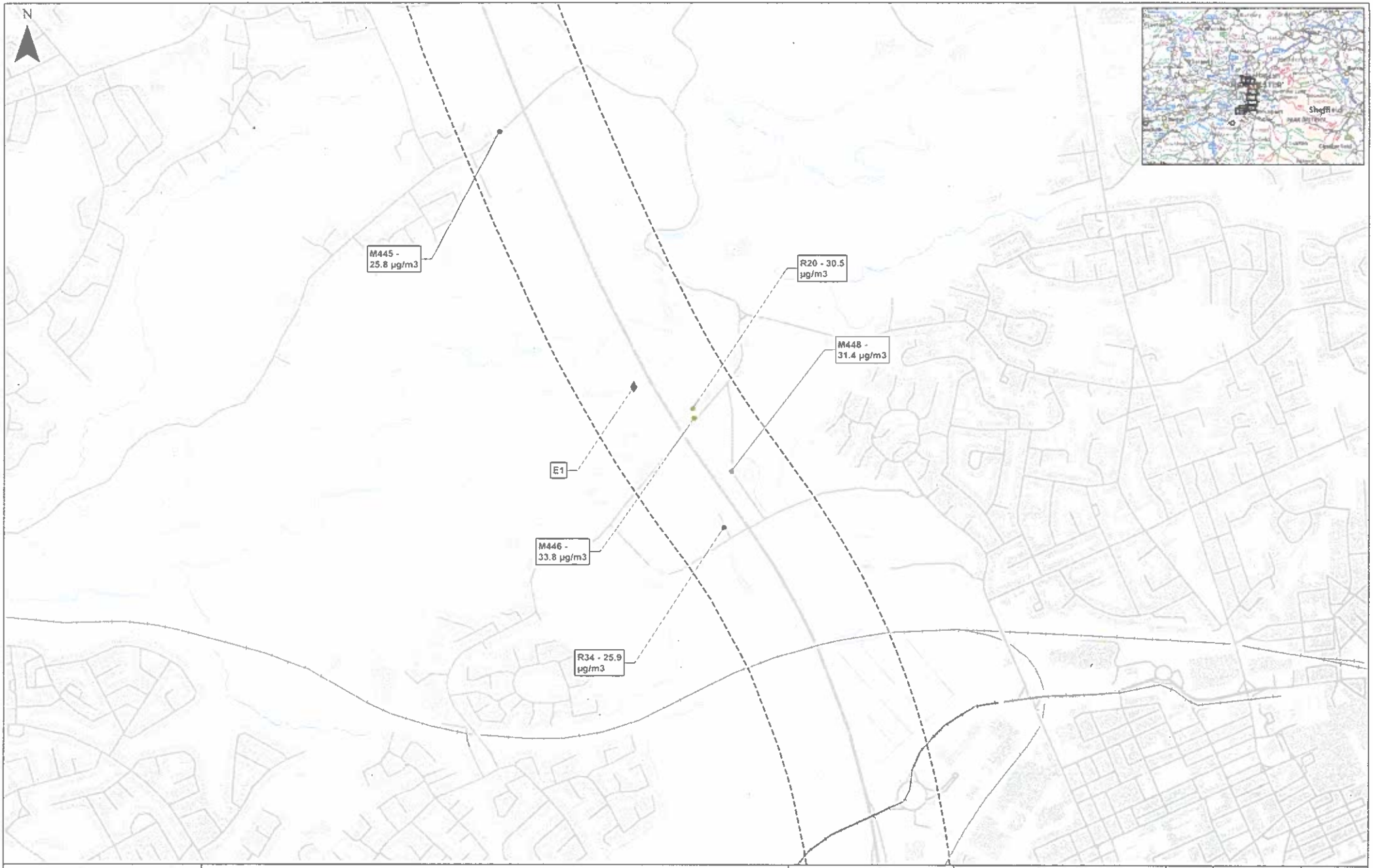
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	App'd



0 250 500
Metres

Key

M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Model Domains
- M60 in Cutting
- Hollinwood Branch Canal SSSI

Client: highways england

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Project: SMART MOTORWAY PROGRAMME M60 J24 to J4

Drawing Title: FIGURE 5.4 AIR QUALITY MODELLING – BASE SHEET 3 OF 9

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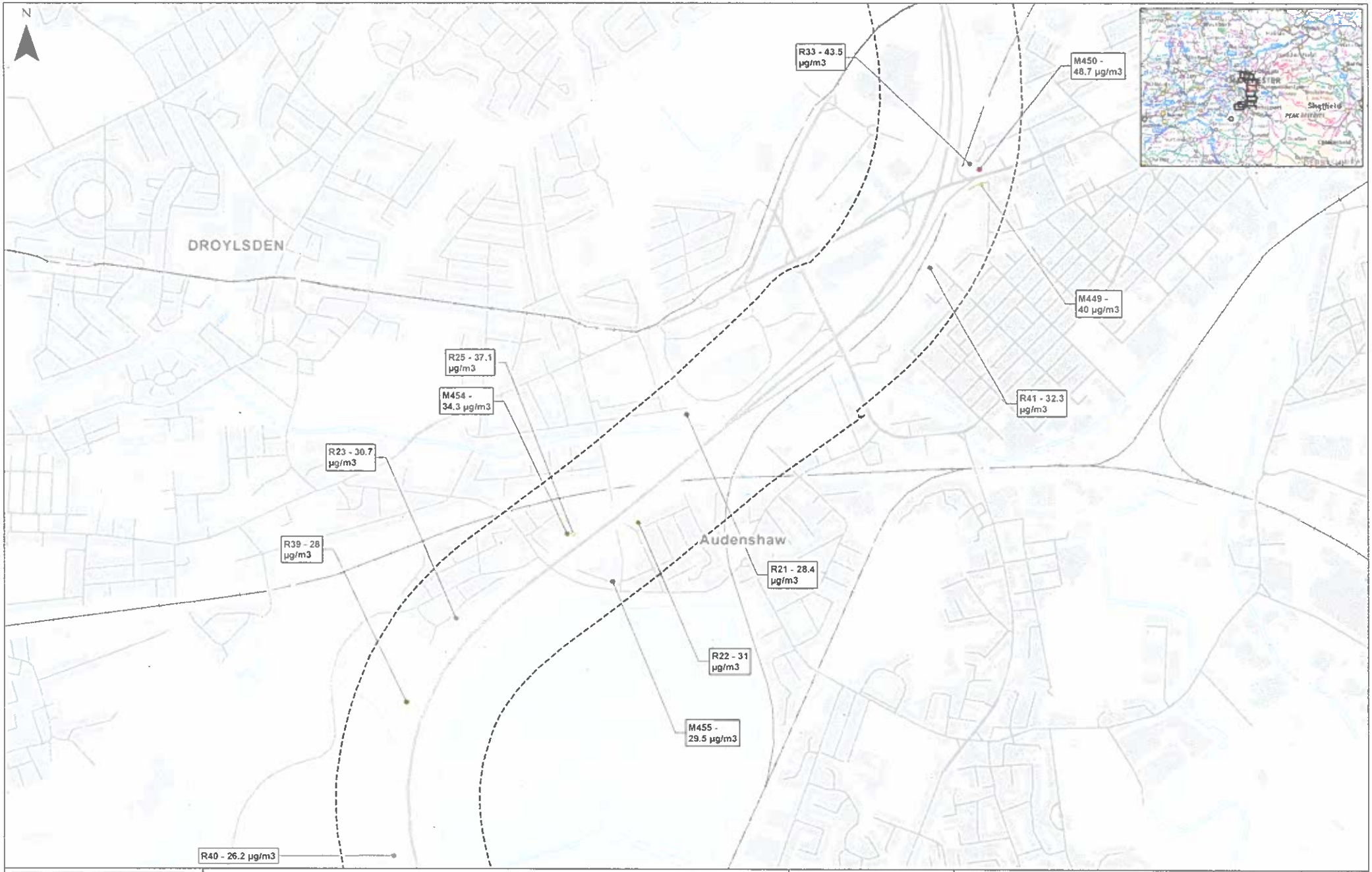

Key

M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Model Domains
- M60 in Cutting

Hollinwood Branch Canal SSSI

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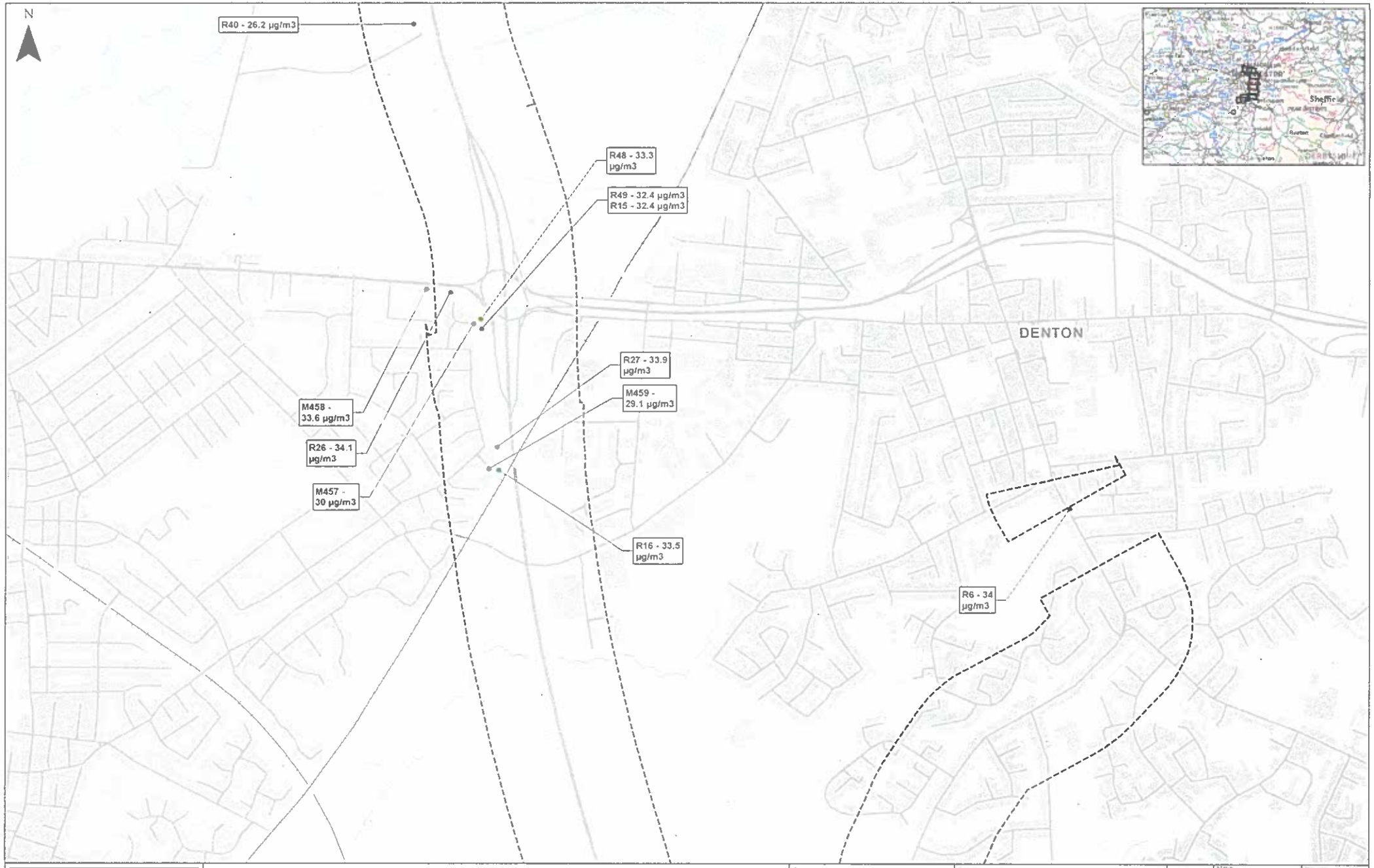
SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.4
AIR QUALITY MODELLING – BASE
SHEET 4 OF 9

A3



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M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Model Domains
- M60 in Cutting

Hollinwood Branch Canal SSSI

P	DRAFT	20/10/2015	DRAFT ISSUE	LT	KW	SP
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Revised

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.4
AIR QUALITY MODELLING – BASE
SHEET 5 OF 9

Status: DRAFT 1
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Checked by: KW
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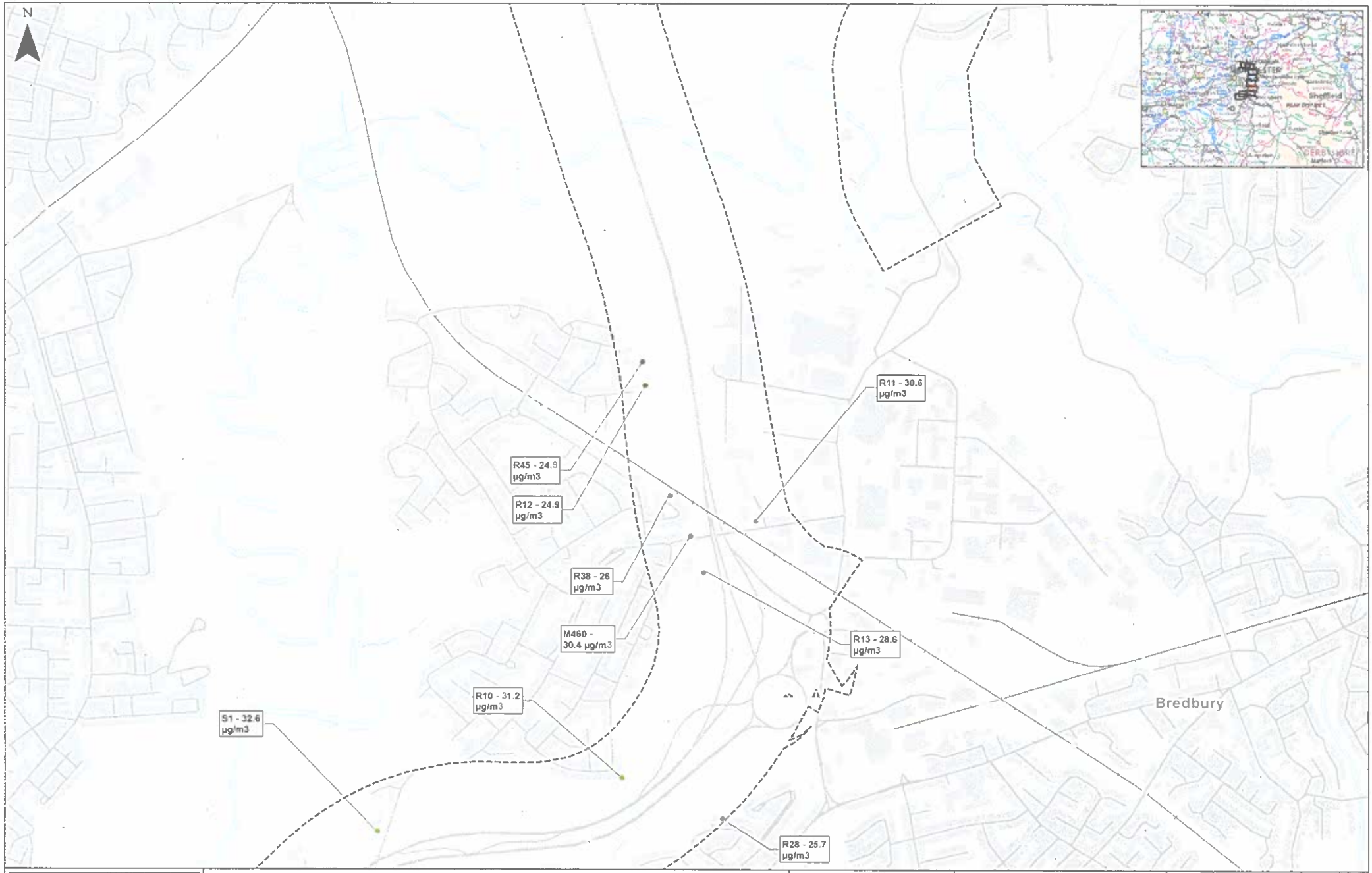

0 250 500
Metres

Key

M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites
- <30µg/m³
- 30-35 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >41 µg/m³

Model Domains
- M60 in Cutting

Hollinwood Branch Canal SSSI

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.4
AIR QUALITY MODELLING – BASE
SHEET 6 OF 9

Status: DRAFT

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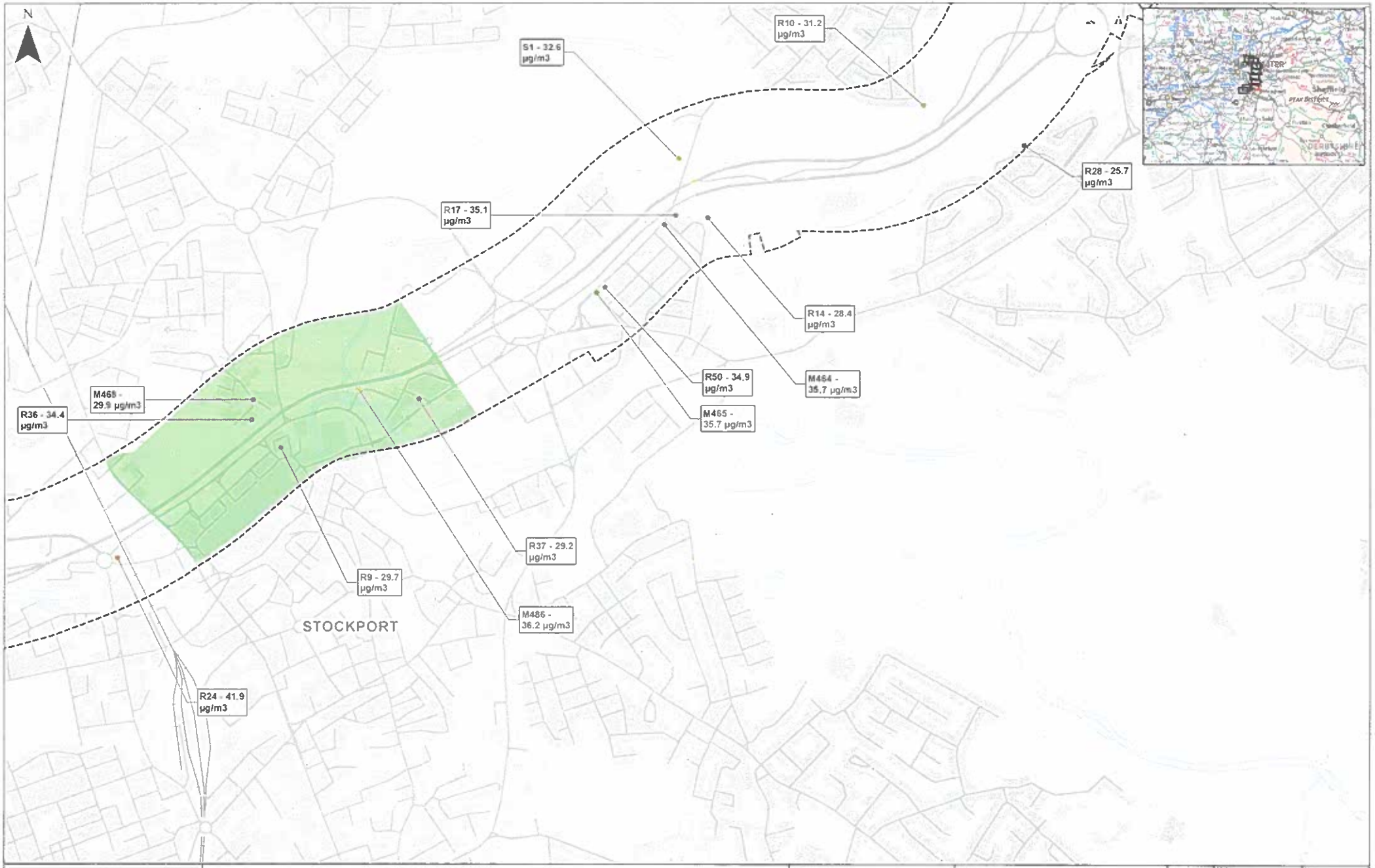

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Key

M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m
- 30-36 µgm³
- 36-40 µgm³
- 40-44 µgm³
- >44 µgm³

Model Domains
- M60 in Cutting

Hollinwood Branch Canal SSSI

Client: highways england

JACOBS ATKINS

Project: SMART MOTORWAY PROGRAMME M60 J24 to J4

Drawing Title: FIGURE 5.4 AIR QUALITY MODELLING – BASE SHEET 7 OF 9

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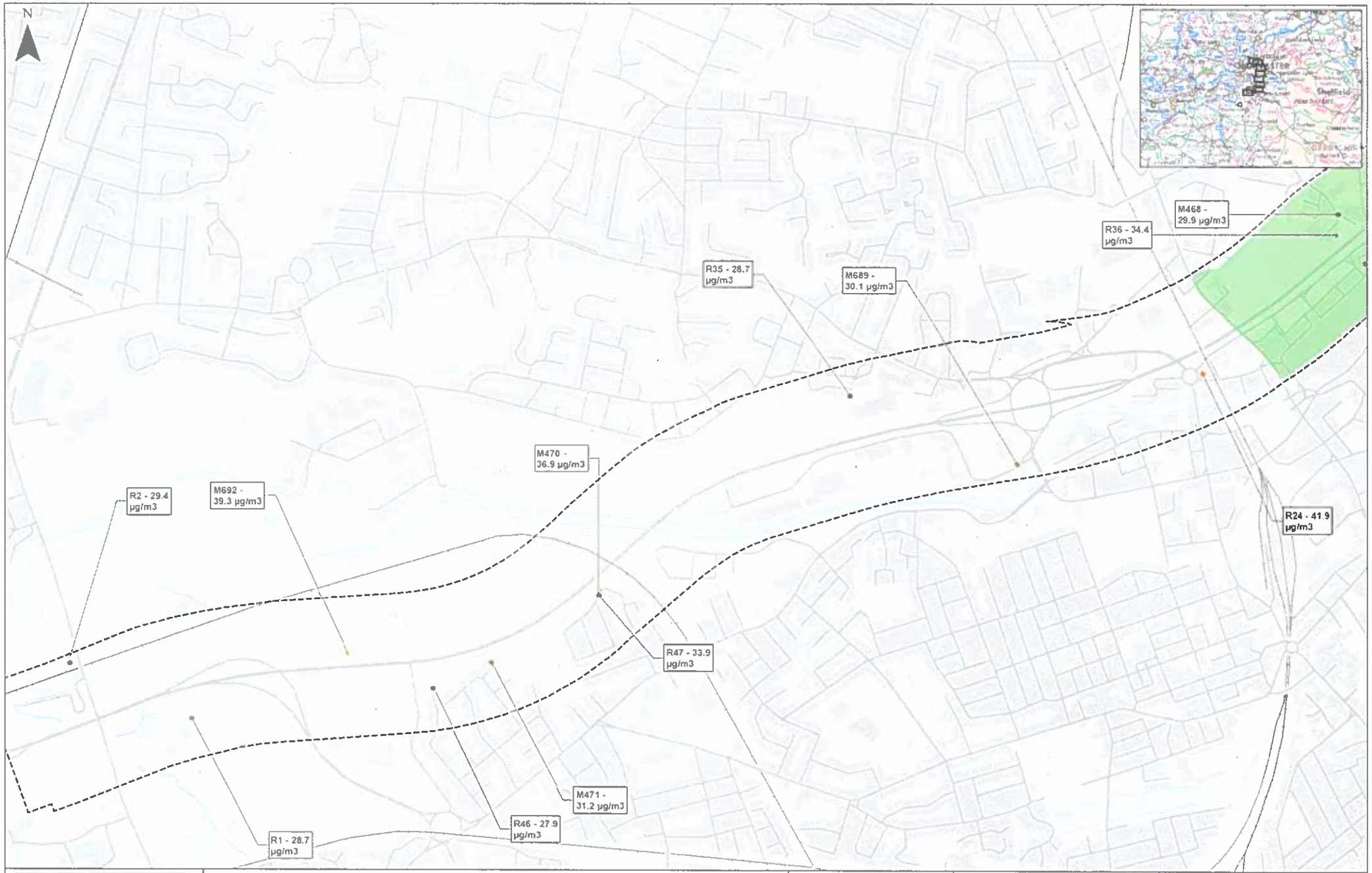

0 250 500
Metres

Key

M60 J24-4 M60 J24-4 Air Quality Geographical Skeilt Area

Verification Monitoring Sites
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Model Domains
- M60 in Cutting

Hollinwood Branch Canal SSSI

0	Draft	30/01/2018	Initial Issue	LT	KV
Rev	Status	Rev. Date	Purpose of Revision	Drawn	Checked

Client: highways England

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Project: SMART MOTORWAY PROGRAMME M60 J24 to J4

Drawing Title: FIGURE 5.4 AIR QUALITY MODELLING – BASE SHEET 8 OF 9

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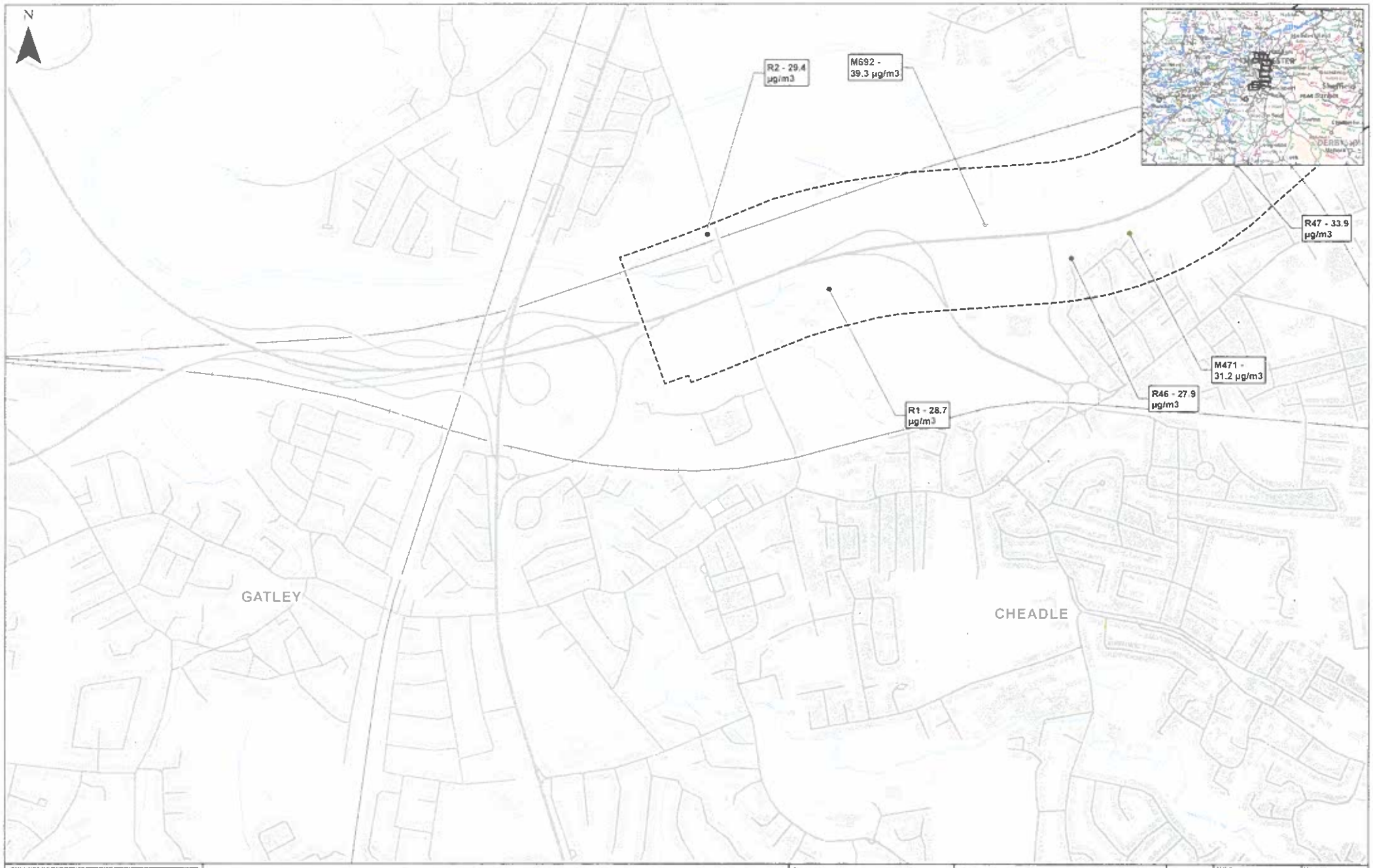

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Key

M60 J24-4 M60 J24-4 Air Quality Geographical Study Area

Verification Monitoring Sites
- <30µg/m³
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Base Scenario Results
- <30µg/m
- 30-36 µg/m³
- 36-40 µg/m³
- 40-44 µg/m³
- >44 µg/m³

Model Domains
- M60 in Cutting

Hollinwood Branch Canal SSSI

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.4
AIR QUALITY MODELLING – BASE
SHEET 9 OF 9

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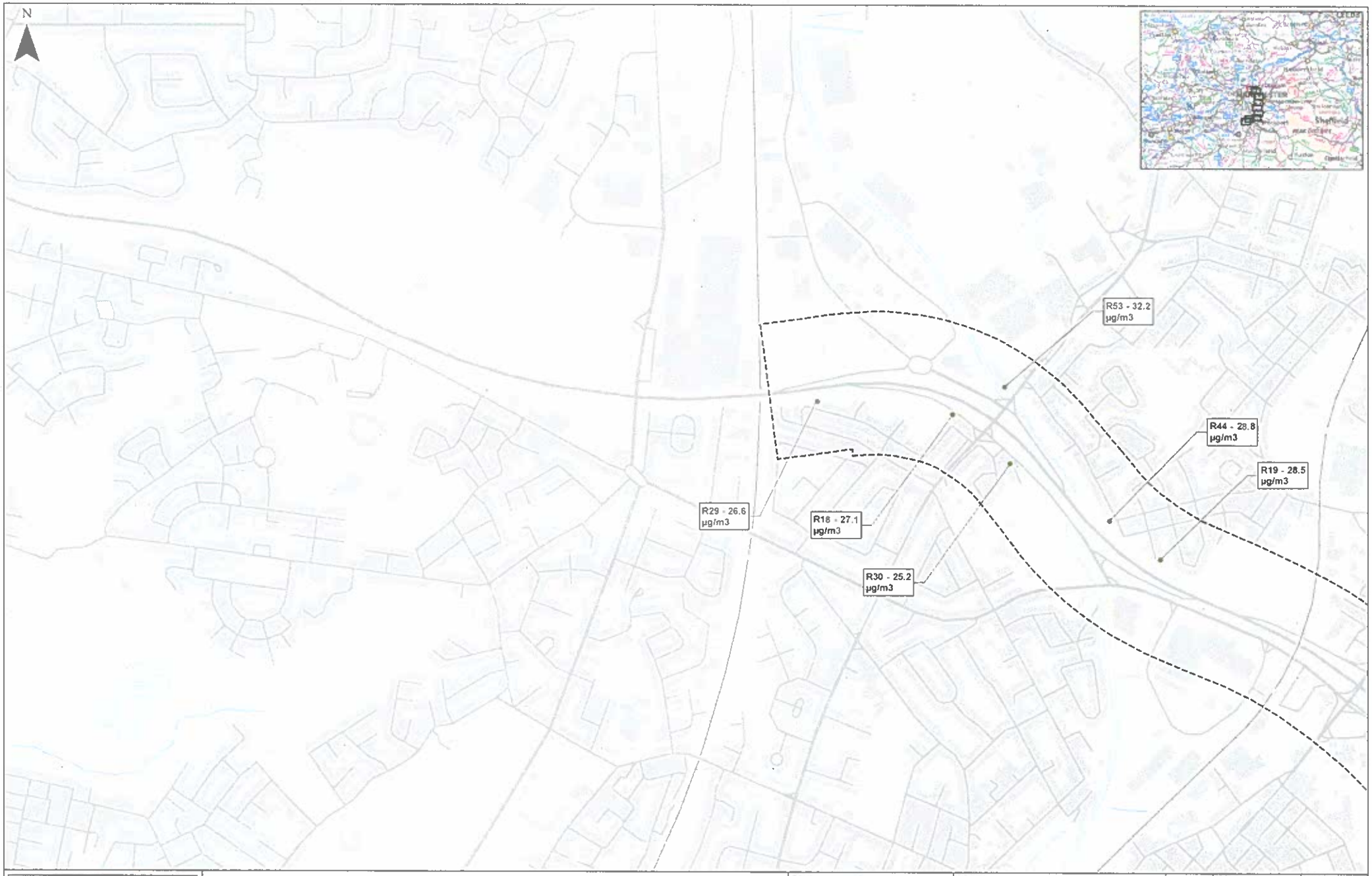

0 250 500
Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results
- Imperceptible
- Small
- Medium
- Large

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 1 OF 9

DRAFT

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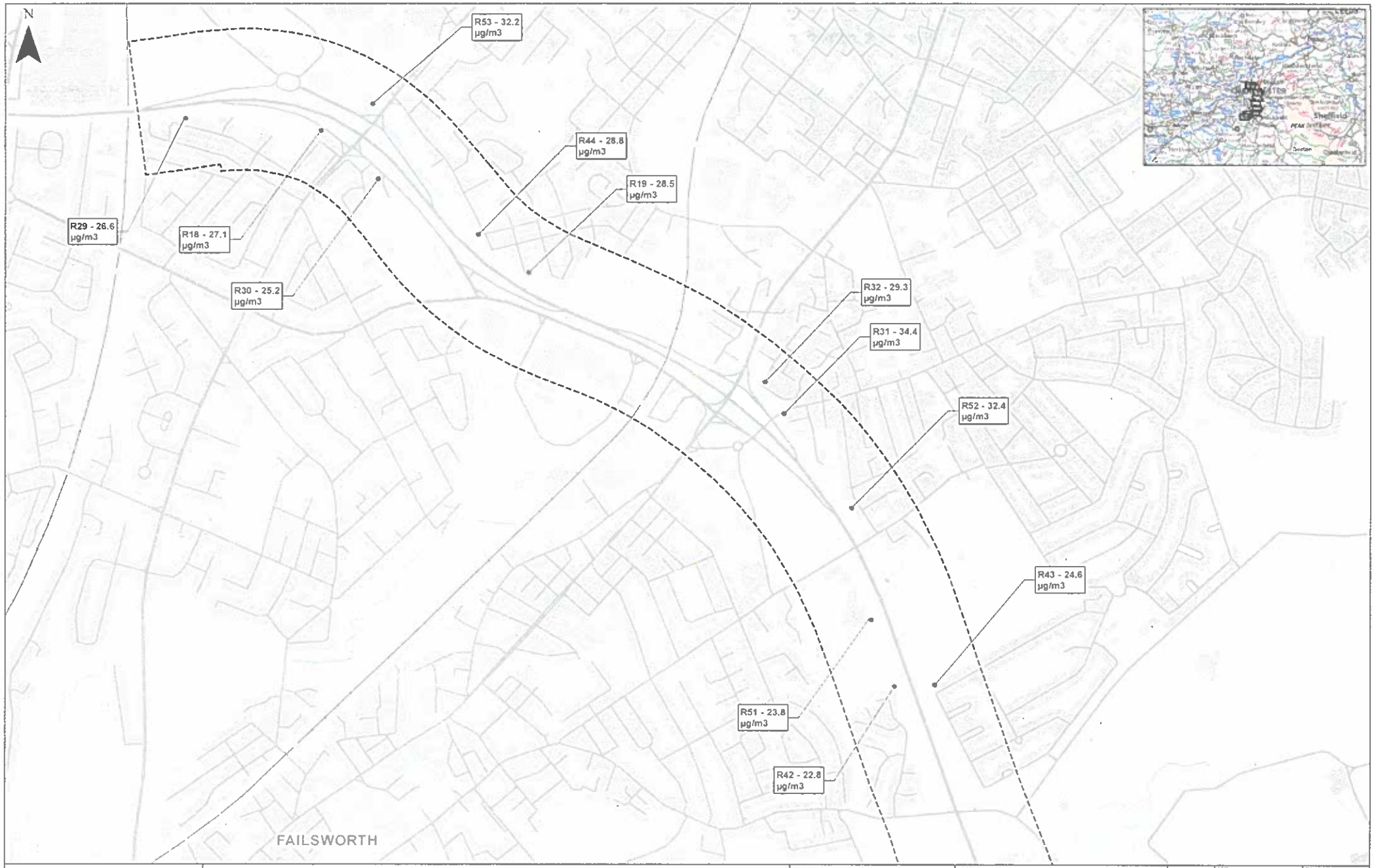

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Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results
- Imperceptible
- Small
- Medium
- Large

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JACOBS ATKINS

SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 2 OF 9

Status: DRAFT
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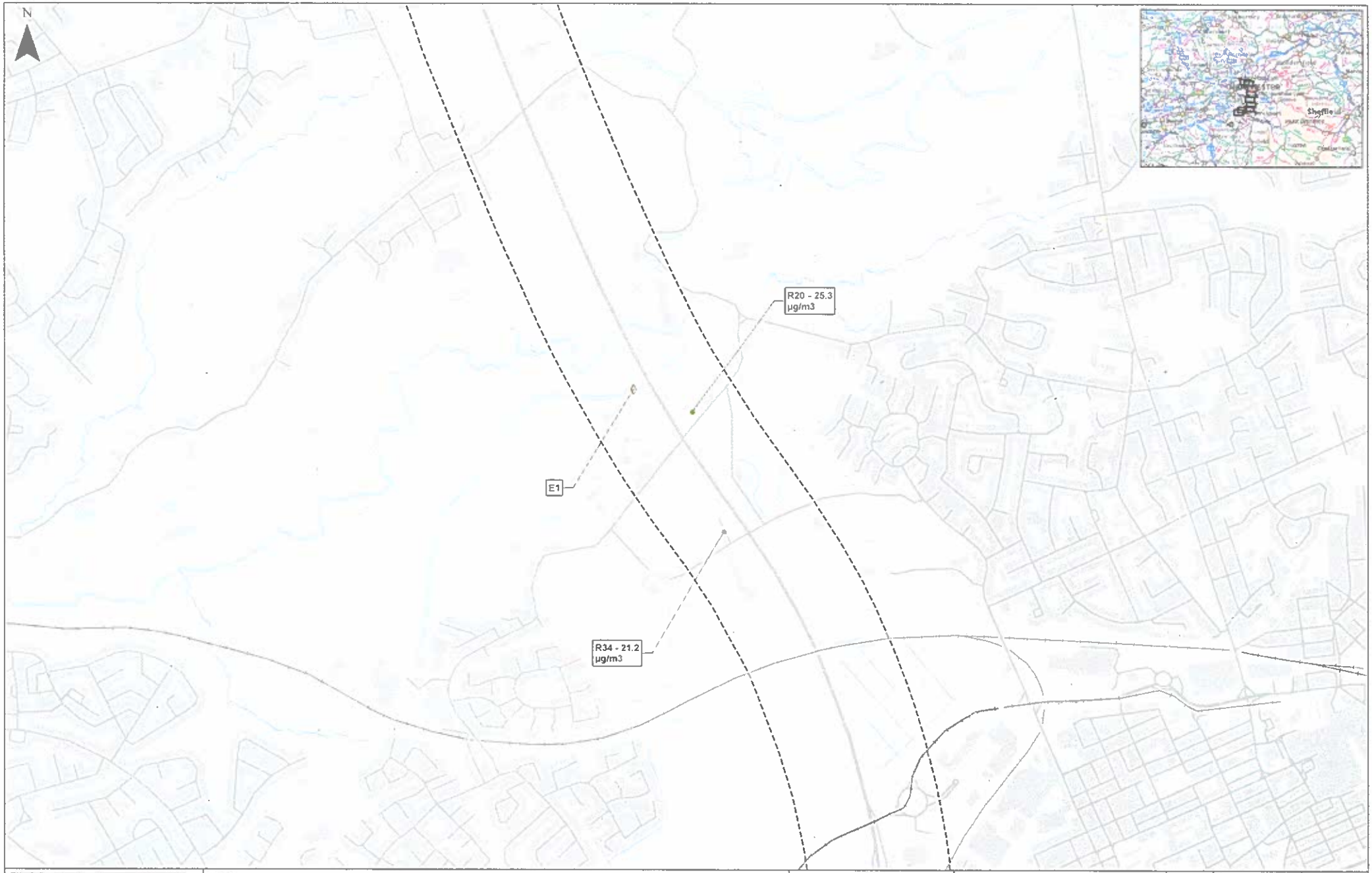

0 250 500
Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results

- Imperceptible
- Small
- Medium
- Large

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SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 3 OF 9

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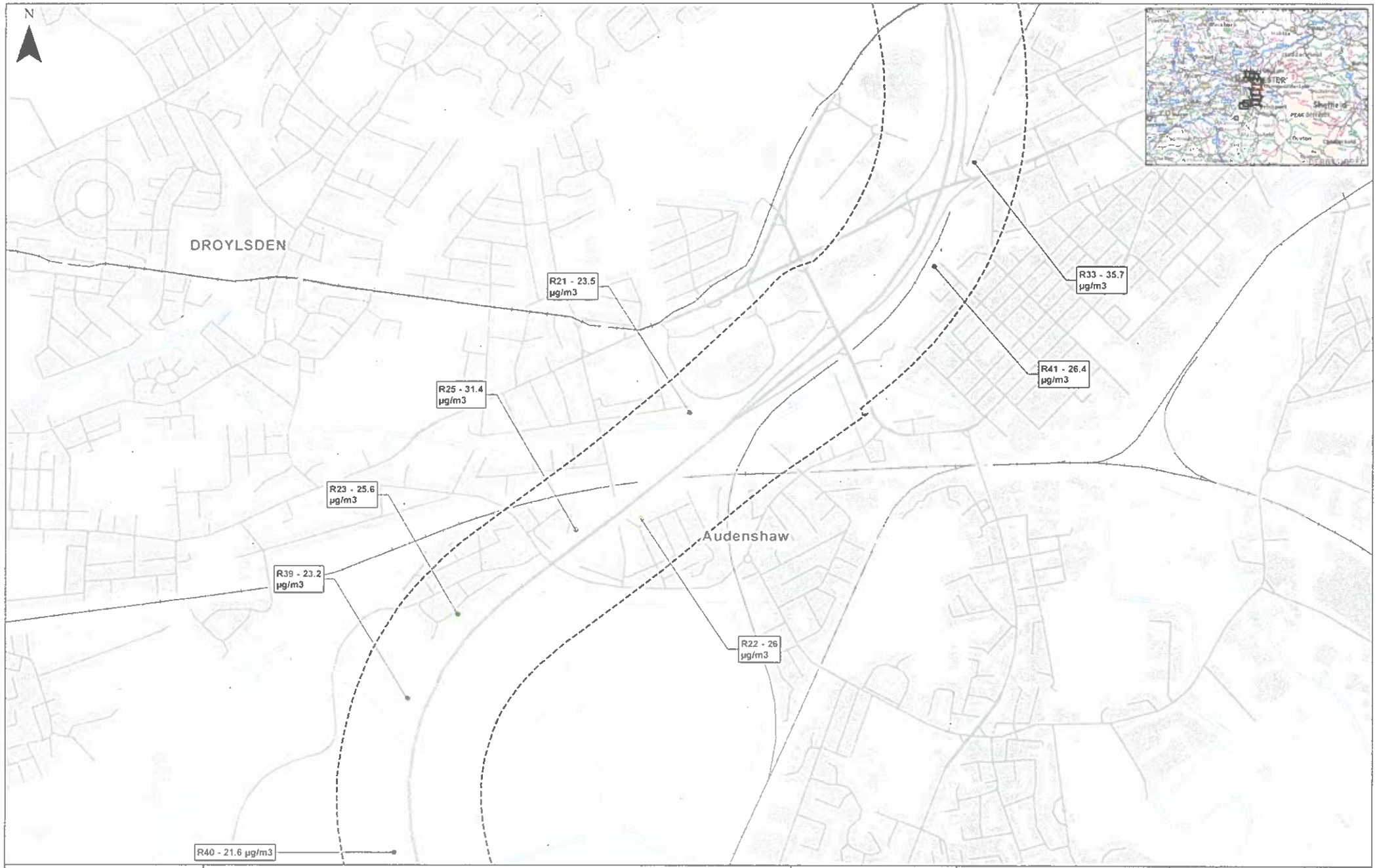


0 250 500
Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results
- Imperceptible
- Small
- Medium
- Large

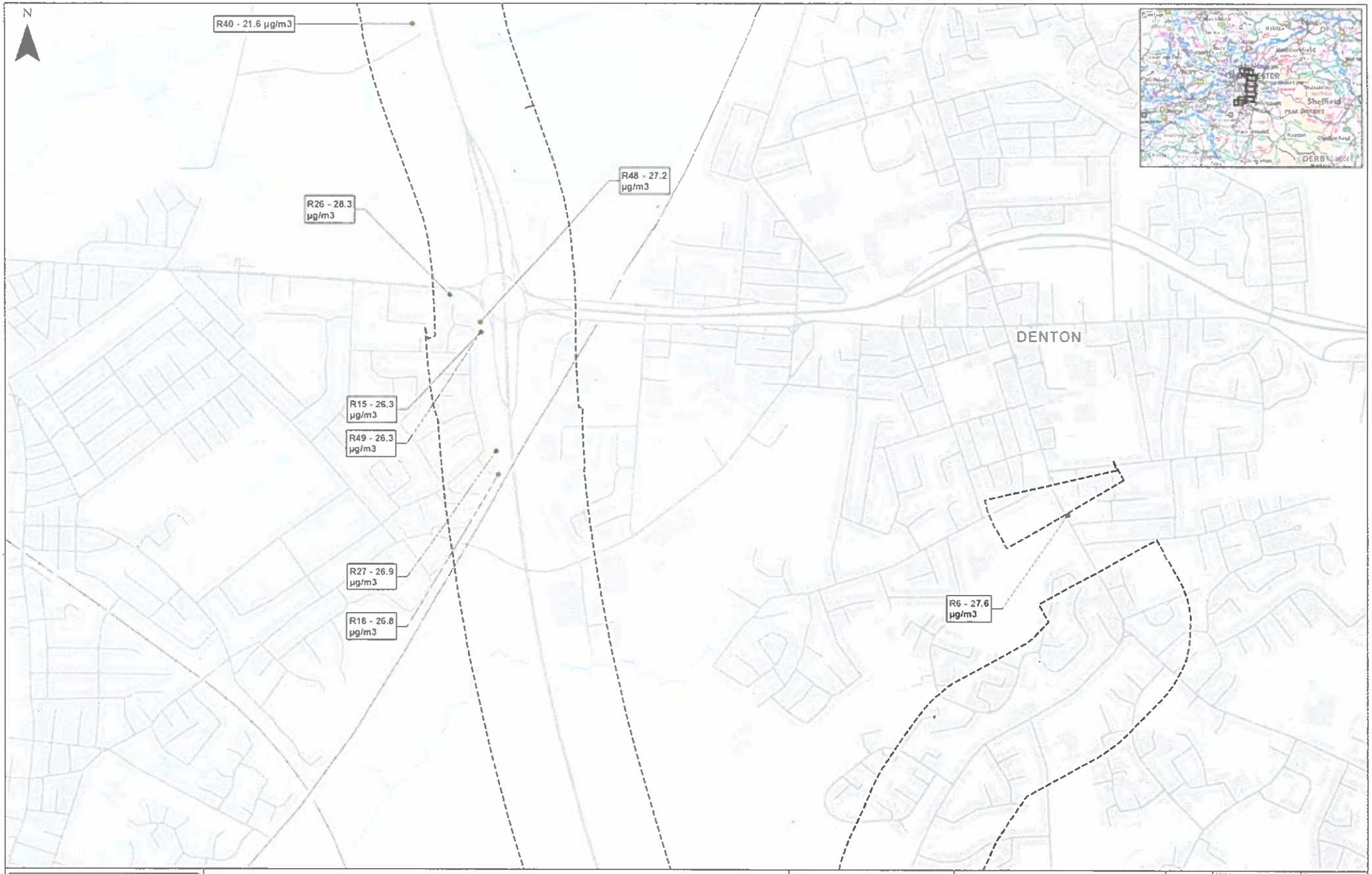
highways england

JACOBS ATKINS

SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 4 OF 9

Status: DRAFT
Scale: 1:15000
Drawn by: LT
Checked by: HM
Approved by: SG
Original Size: A3



0 250 500
Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results
- Imperceptible
- Small
- Medium
- Large

highways england

JACOBS ATKINS

SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 5 OF 9

Status: DRAFT
Revision: P
Scale: 1:10,000
Date: 30/05/2018
Drawn by: [illegible]
Checked by: MW
Approved by: SP
Project No.: HA 566 Originator
Original Size: A3
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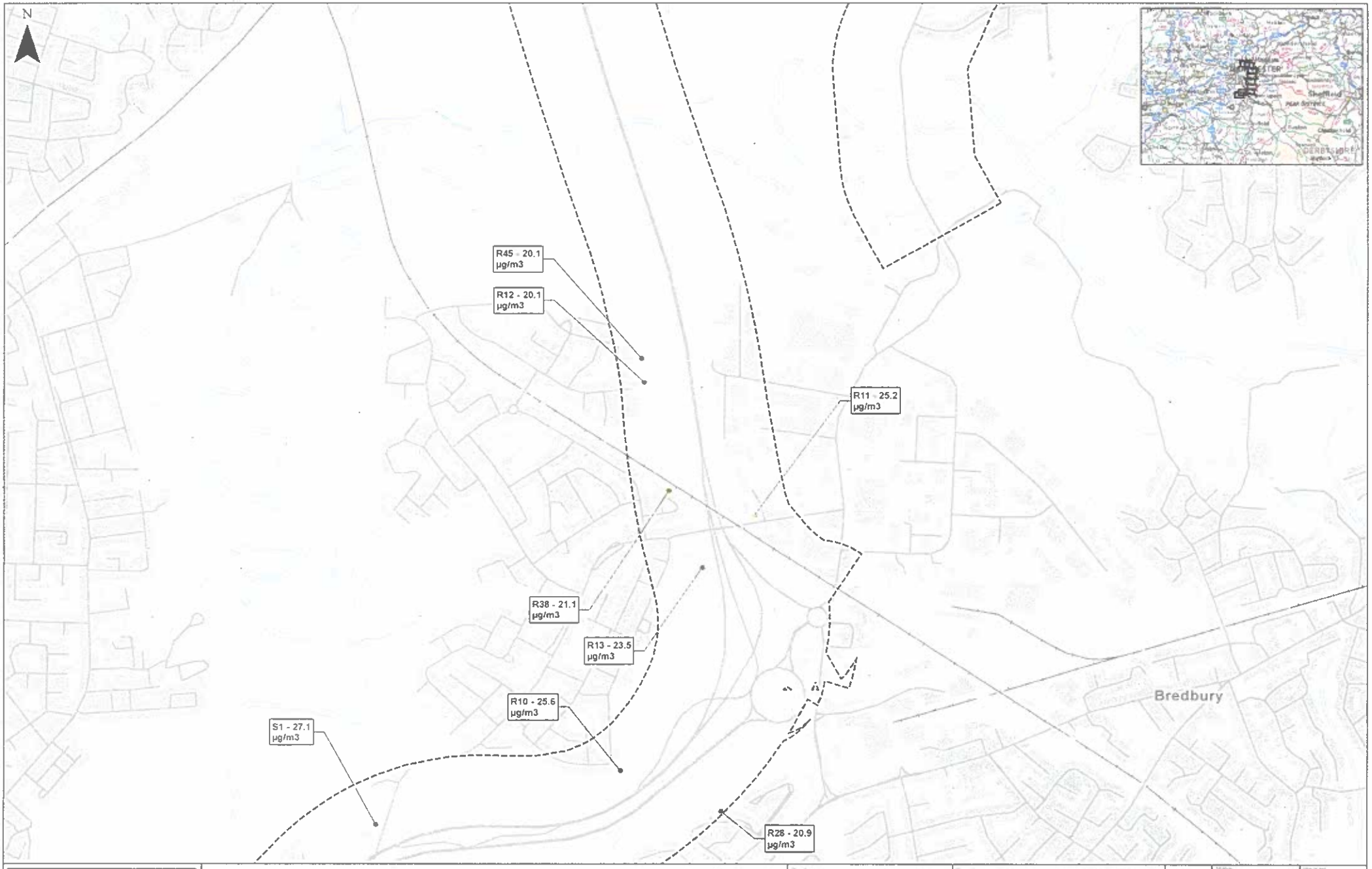


0 250 500
Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results

- Imperceptible
- Small
- Medium
- Large

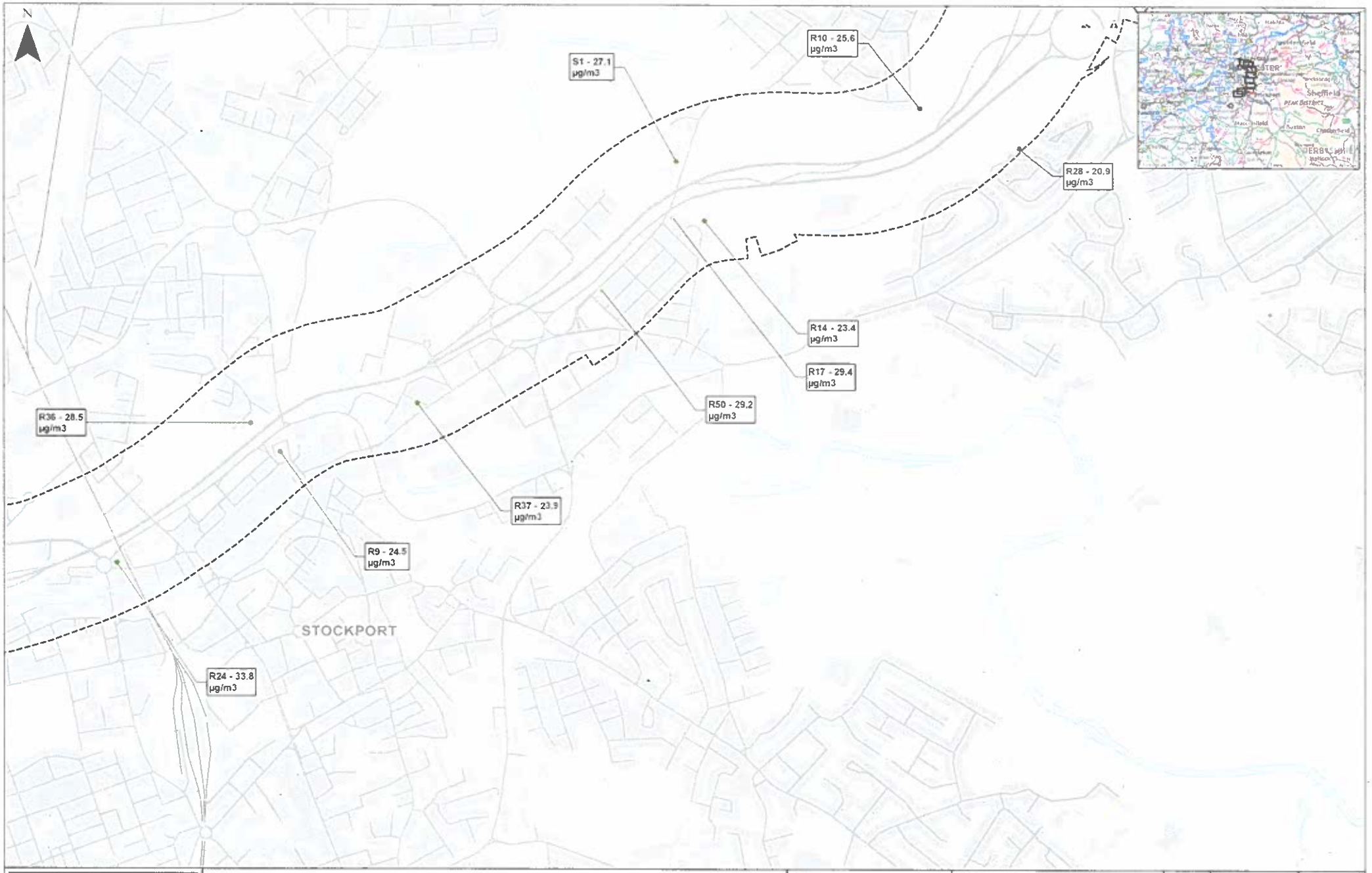
highways england

JACOBS ATKINS

SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 6 OF 9

A3



0 250 500
Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results
- Imperceptible
- Small
- Medium
- Large

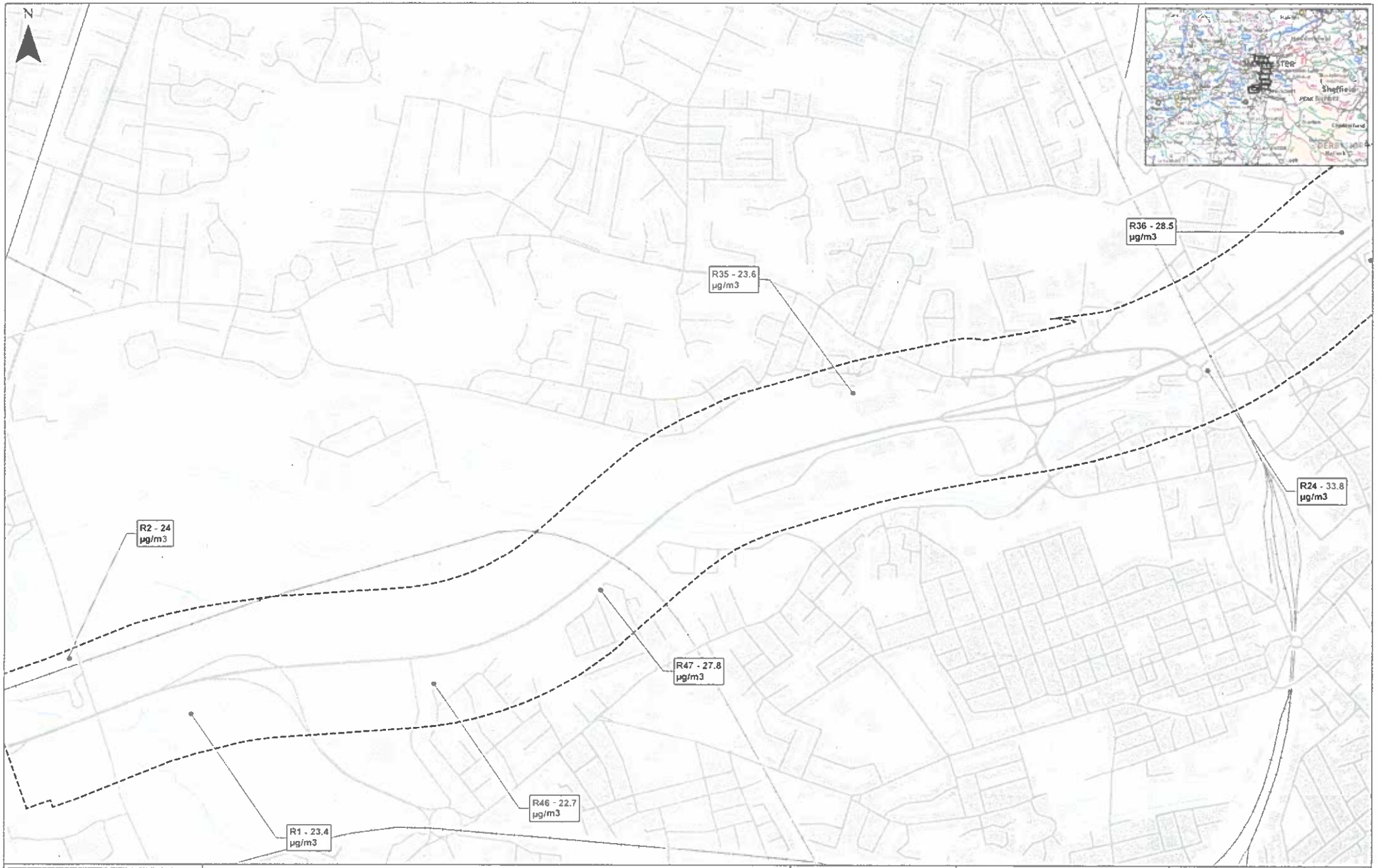
highways england

JACOBS ATKINS

SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 7 OF 9

Status: DRAFT
Scale: 1:15,000
Drawn by: MM
Checked by: MM
Approved by: SH
Original Size: A3



0 250 500
Metres

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results
- Imperceptible
- Small
- Medium
- Large

highways england

JACOBS ATKINS

SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 8 OF 9

Status: DRAFT
Revision: 0
Scale: 1 TO 100
Date: 30/01/2018
Checked by: HM
Approved by: SP
Original Size: A3

Key

M60 24-4 Air Quality Geographical Study Area

M60 24-4 Results
- Imperceptible
- Small
- Medium
- Large

highways england

JACOBS ATKINS

SMART MOTORWAY PROGRAMME
M60 J24 to J4

FIGURE 5.5
AIR QUALITY MODELLING
SHEET 9 OF 9

A3