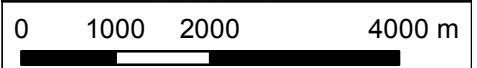
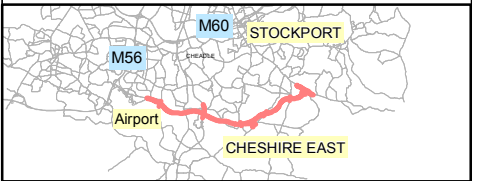
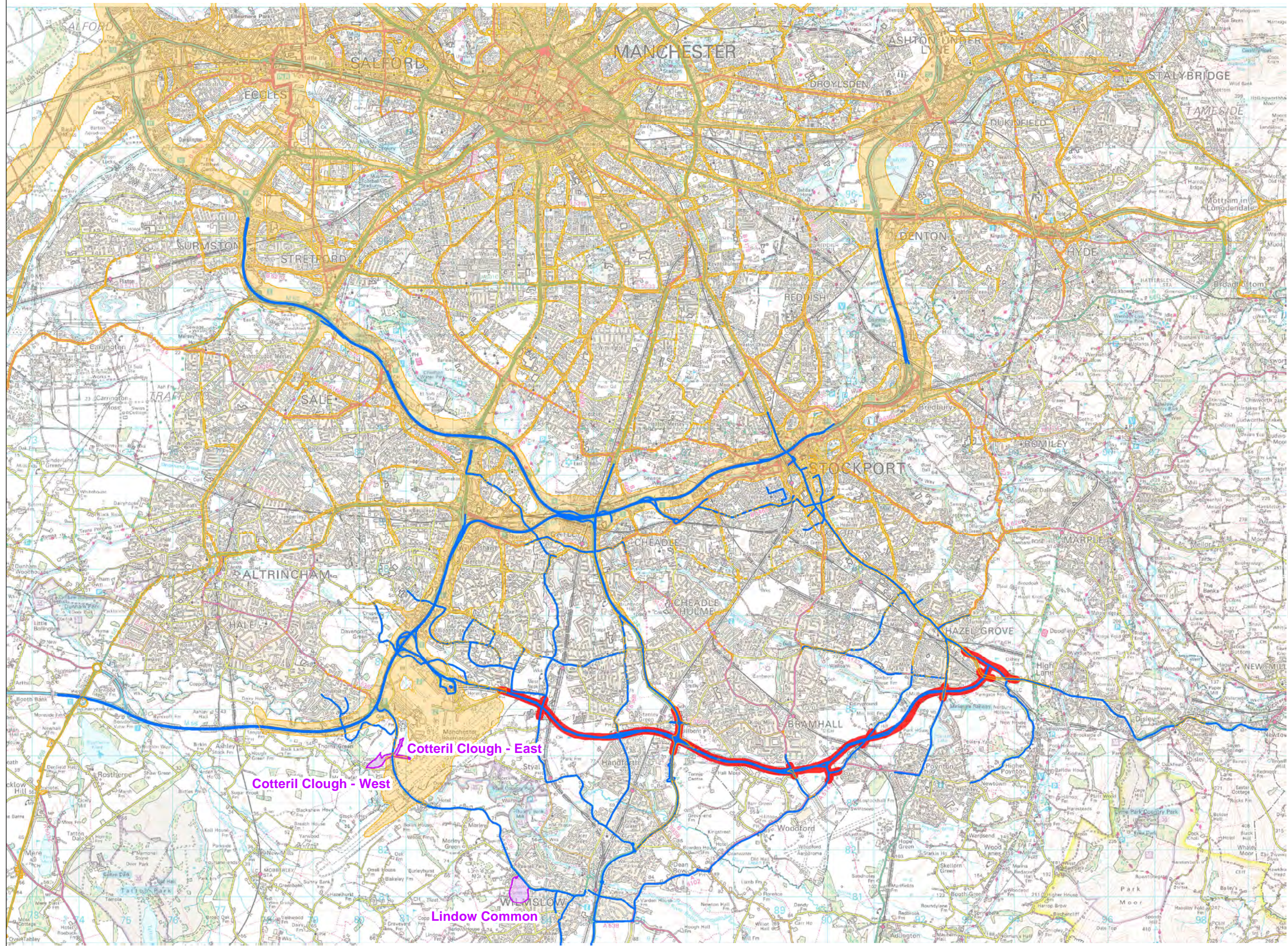




LEGEND

- Study Area
- Scheme
- DMRB Affected Links
- Air Quality Management Area (AQMA)
- Site of Special Scientific Interest (SSSI) / Designated Site



Scale @ A3 1:80,000 Date 19-08-13

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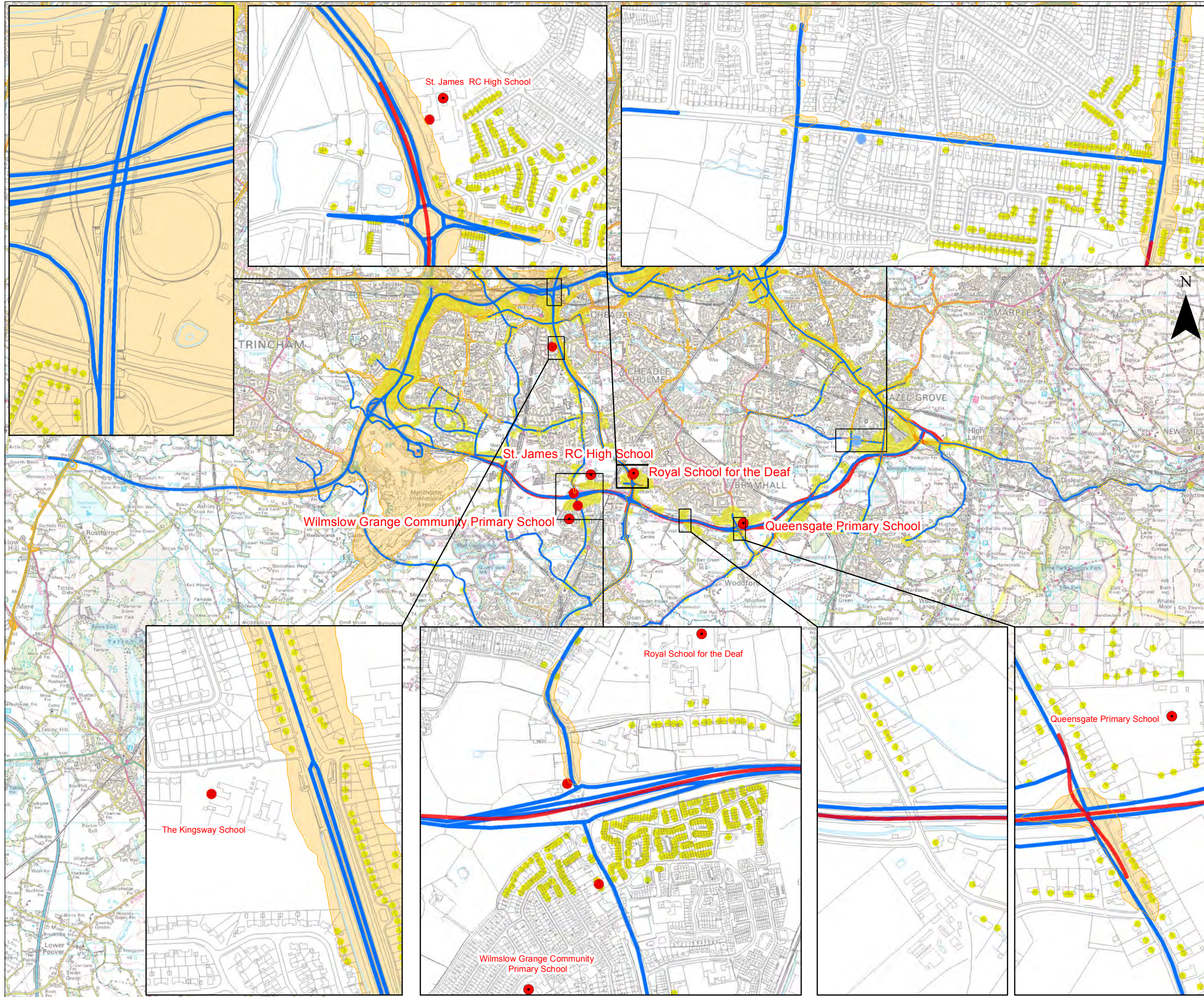


Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **LOCATION OF THE STUDY AREA, AIR QUALITY MANAGEMENT AREAS, DESIGNATED SITES AND AFFECTED ROADS FOR LOCAL AIR QUALITY**

Figure No. **FIGURE 8.1**



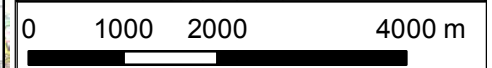
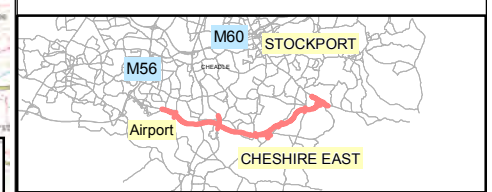
LEGEND

- Scheme
- DMRB Affected Links

Relevant Receptors within 200m of the Affected Links

- Hospital and Medical
- Nursery or School
- Care Home (none found)
- Residence

Air Quality Management Area (AQMA)



Scale @ A3 1:80,000 Date 10-10-13

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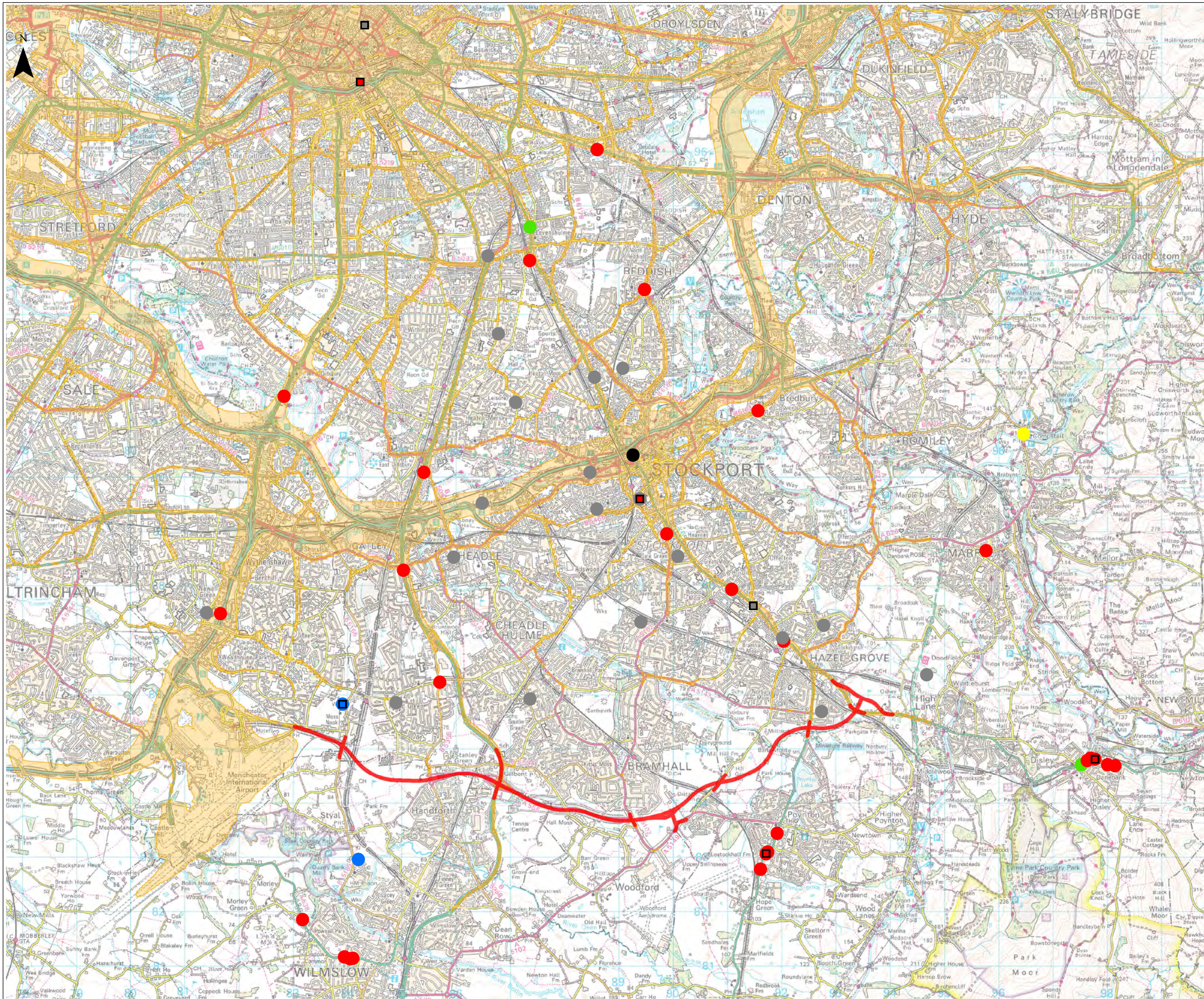


Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

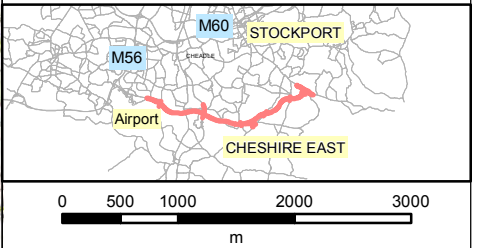
Title **LOCATIONS OF RELEVANT SENSITIVE RECEPTORS FOR PUBLIC EXPOSURE**

Figure No. **FIGURE 8.2**



LEGEND

- Scheme
- Local Authority Diffusion Tube Locations**
 - Kerbside
 - Roadside
 - Rural
 - Rural Background
 - Suburban
 - Urban Background
 - Urban Centre
- NO₂ Continous Monitoring Sites**
 - Continous Monitor Roadside
 - Continous Monitor Suburban
 - Continous Monitor Urban Background
- Air Quality Management Area (AQMA)



Scale @ A3 1:65,000 Date 08-08-13

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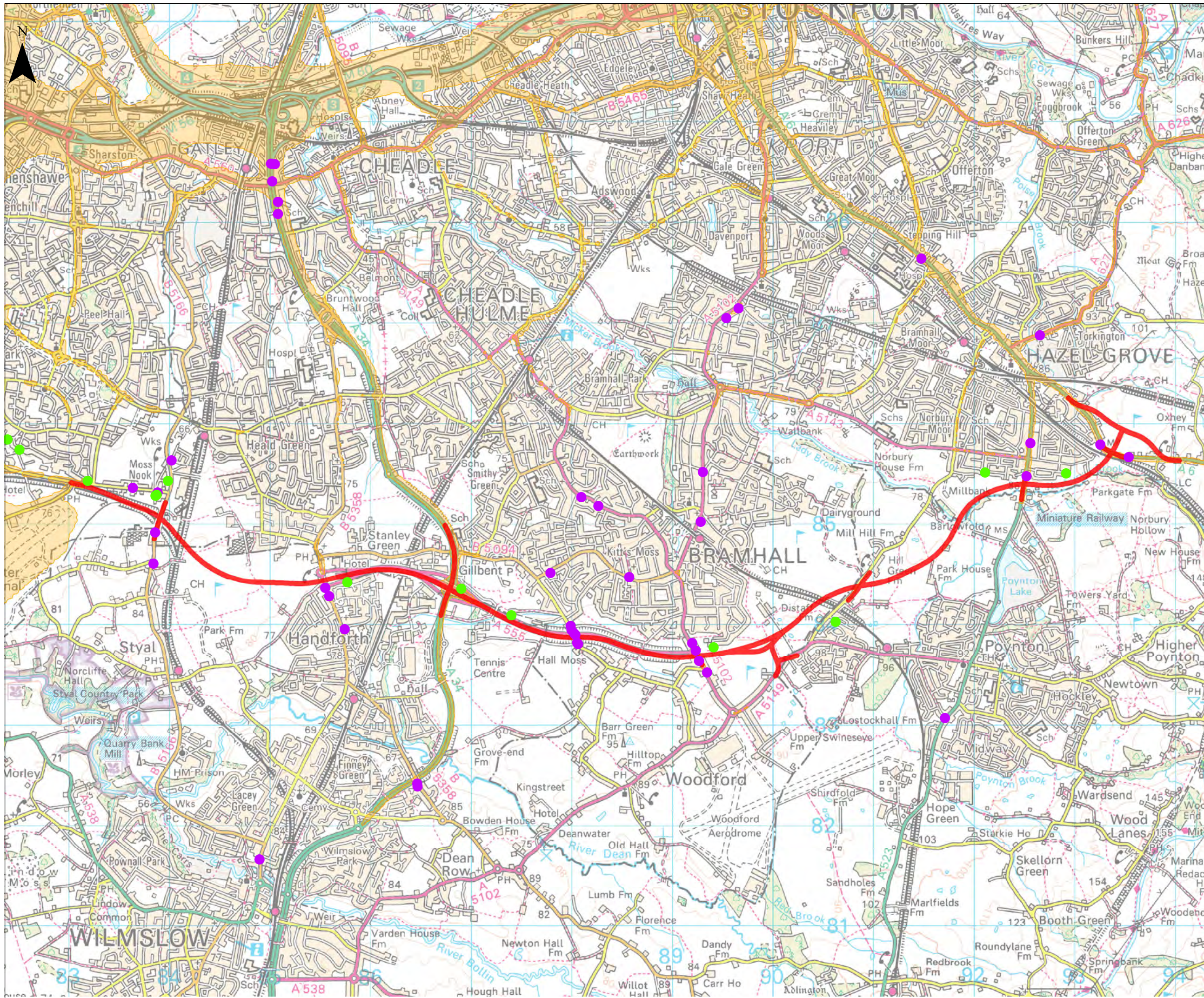
This drawing may be used only for the purpose intended and only written dimensions shall be used

Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **LOCAL AUTHORITY MONITORING LOCATIONS**

Figure No. **FIGURE 8.3**



LEGEND

- Scheme

Monitoring Site Type

- Roadside
- Suburban Background

Air Quality Management Area (AQMA)

0 500 1000 2000
m

Scale @ A3	Date
1:35,000	08-08-13

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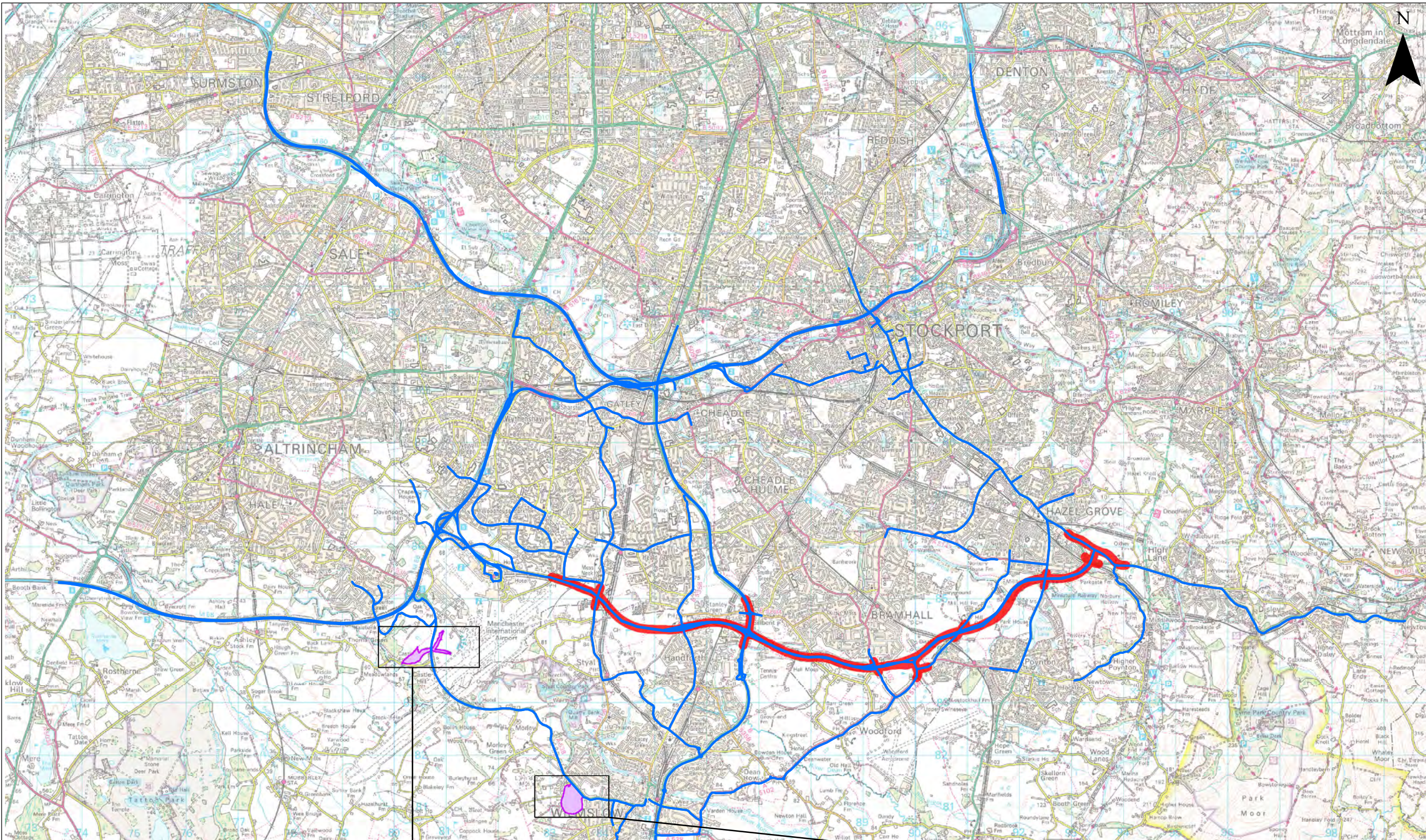
This drawing may be used only for the purpose intended and only written dimensions shall be used

Client **Stockport M.B.C**

Project **SEMMS A6 to Manchester Airport Relief Road**

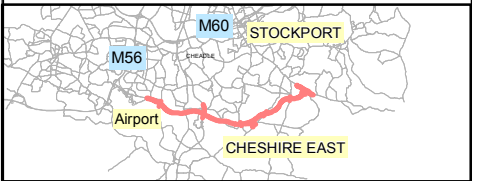
Title **SCHEME SPECIFIC MONITORING PROGRAMME - DIFFUSION TUBES LOCATIONS**

Figure No. **FIGURE 8.4**



LEGEND

- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site



Scale @ A3 1:80,000 Date 08-08-13

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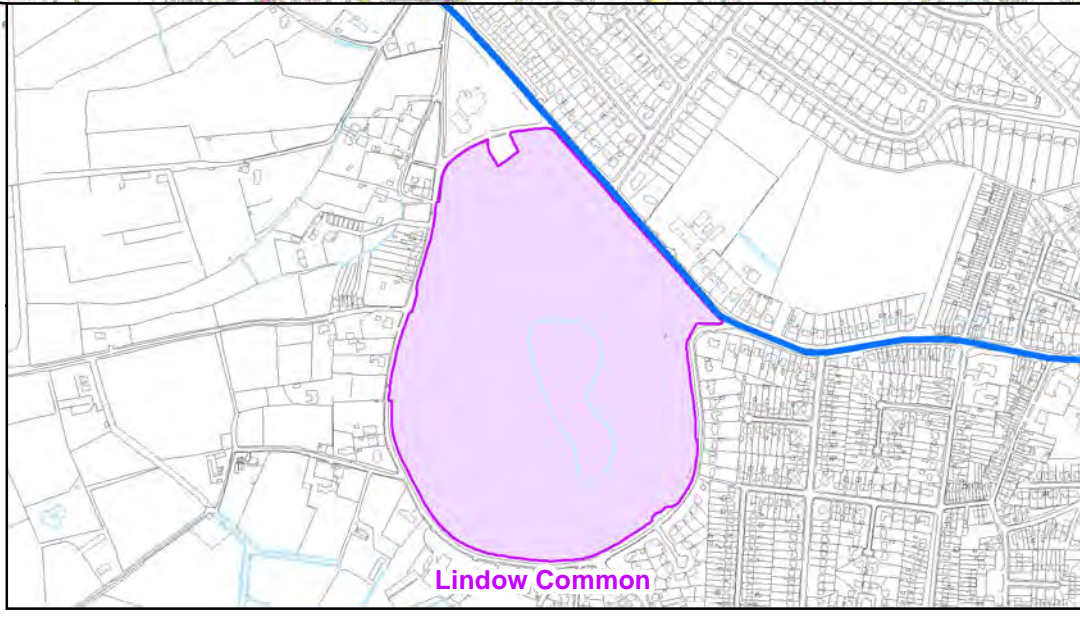
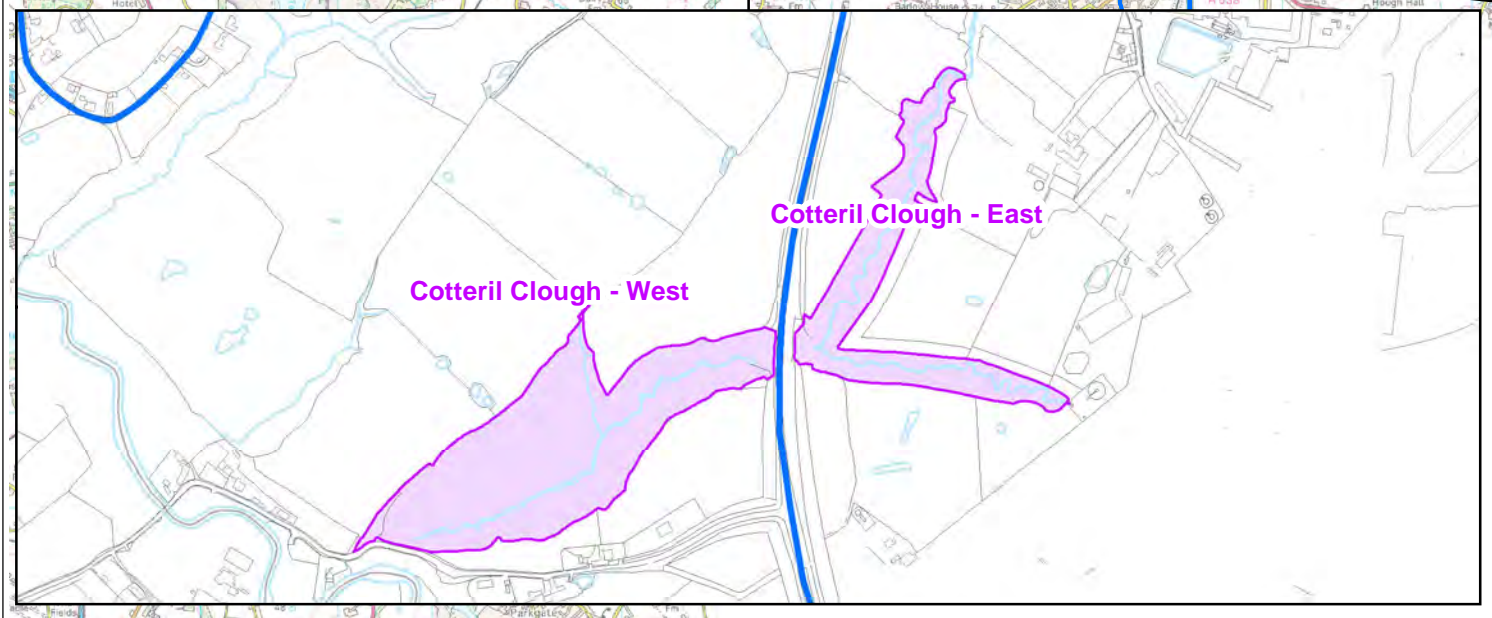


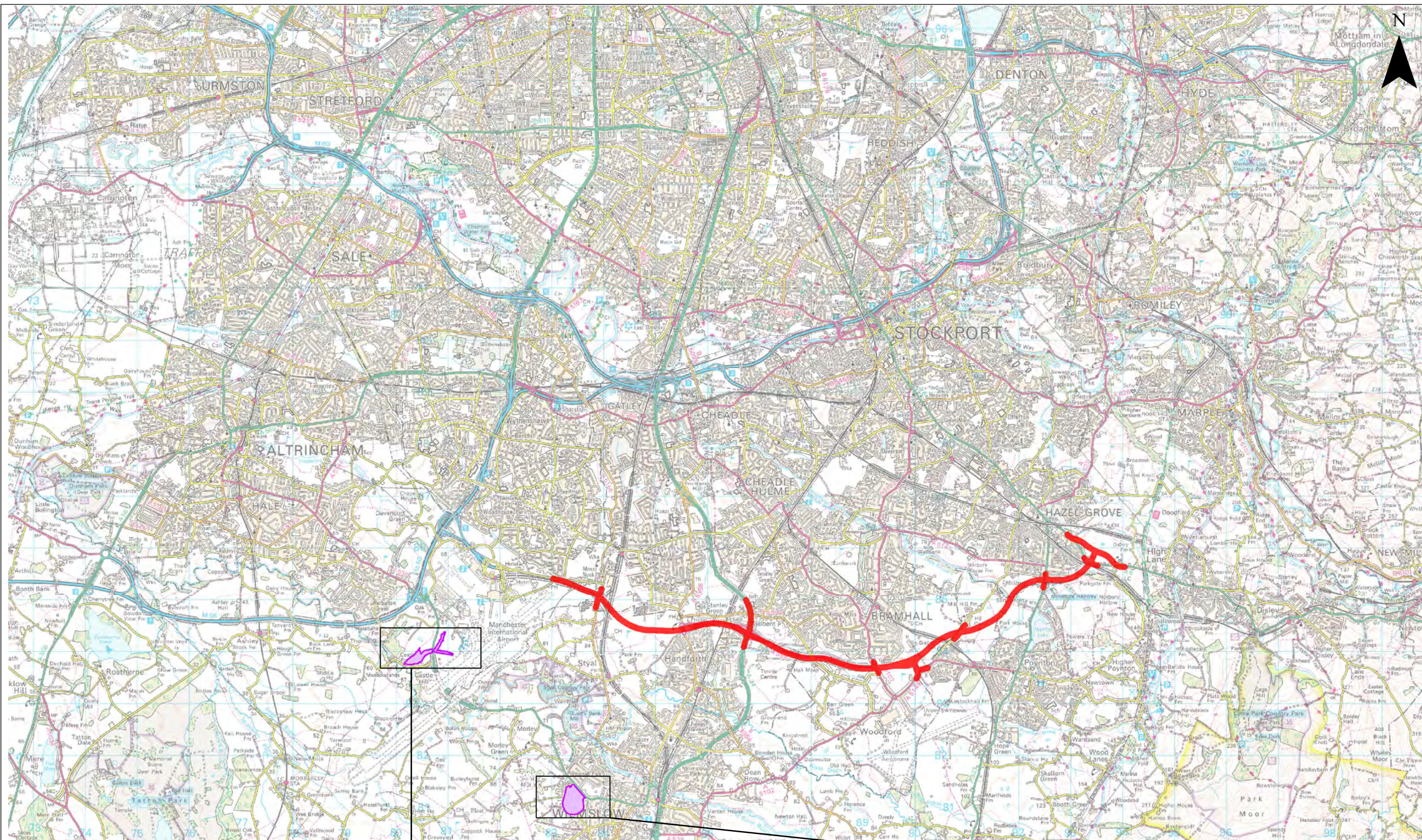
Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **LOCATIONS OF THE DESIGNATED SITES IN RELATION TO THE PROPOSED SCHEME**

Figure No. **FIGURE 8.5**



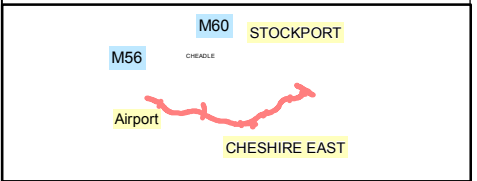


LEGEND

- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

Annual Mean NO_x Concentration (µg/m³)

- ≤ 36
- > 36 - 40
- > 40



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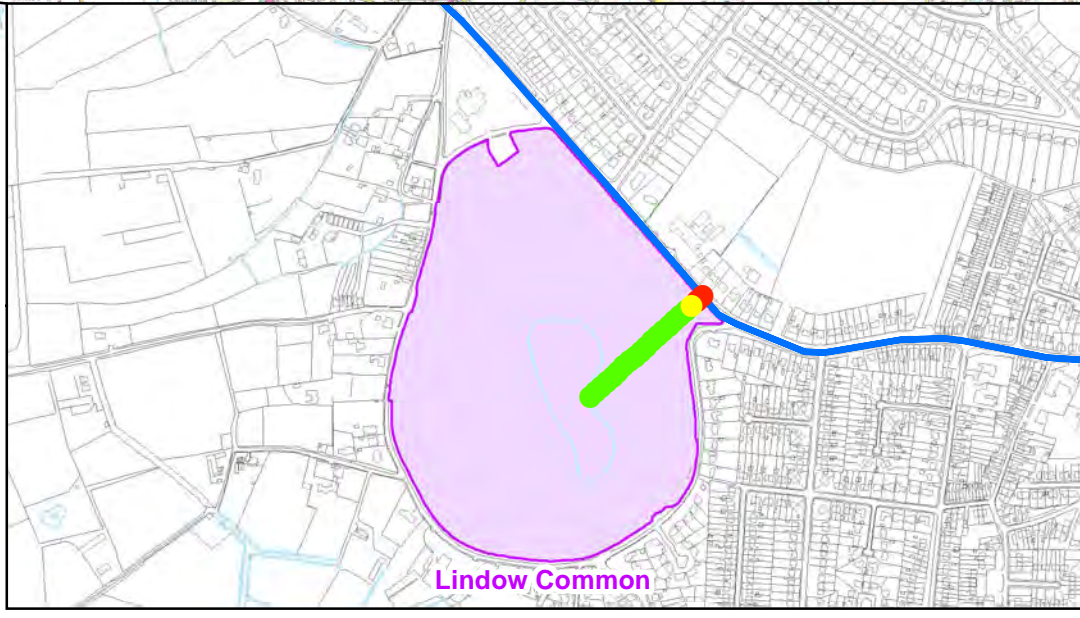
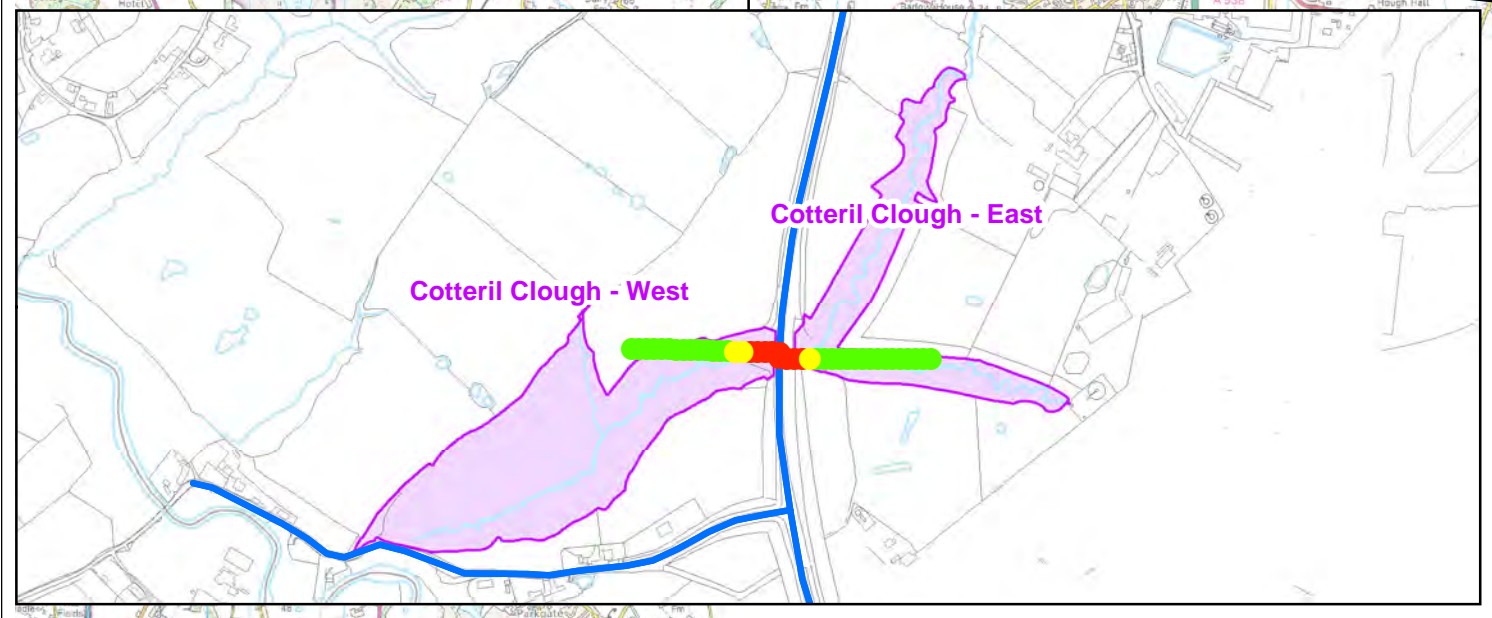


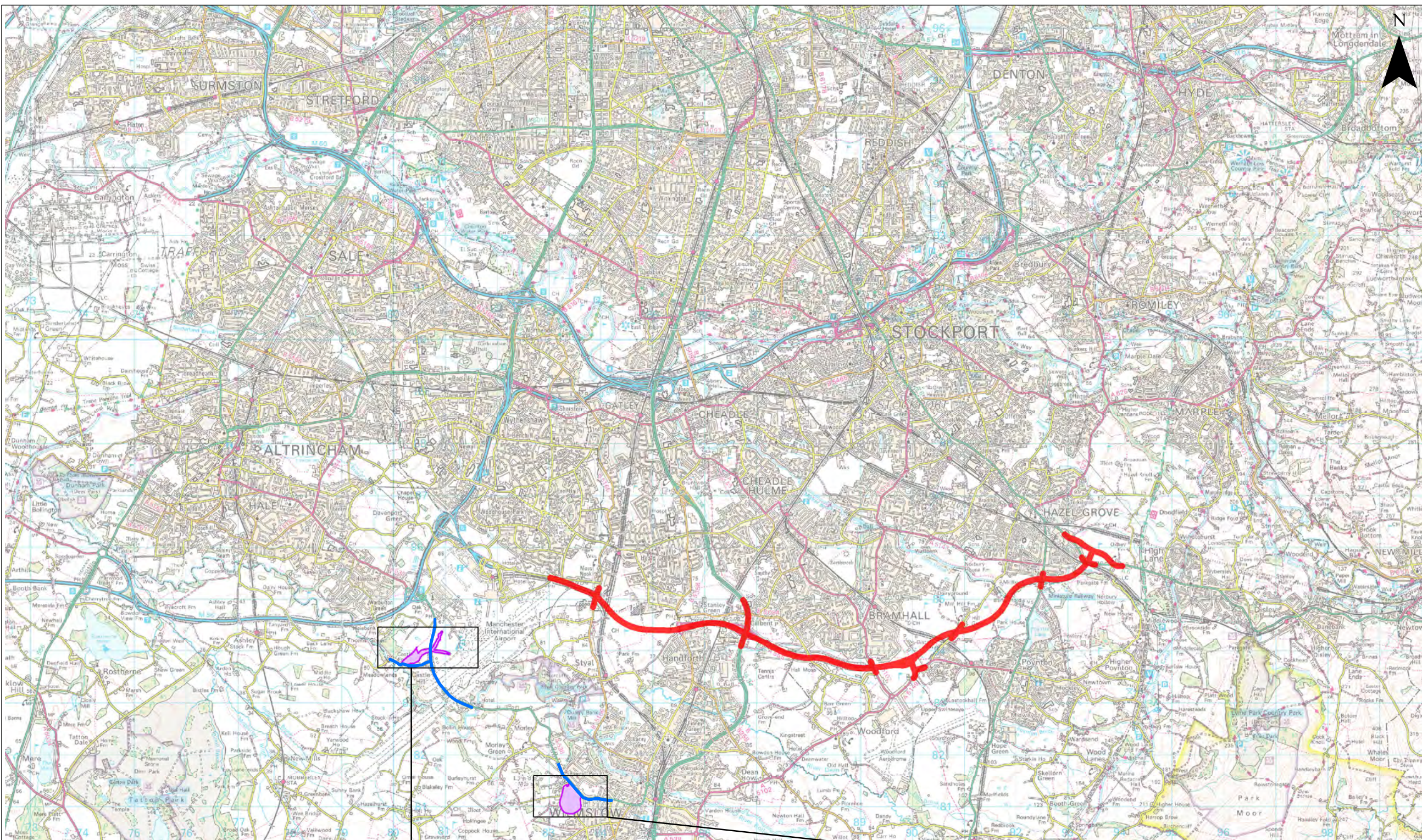
Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **MODELLLED ANNUAL MEAN NO_x CONCENTRATIONS AT THE DESIGNATED SITES IN 2009**

Figure No. **FIGURE 8.6**



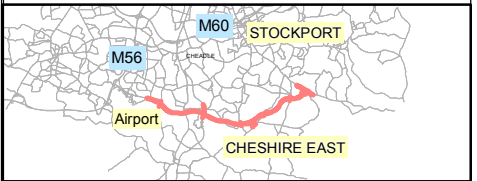


LEGEND

- Scheme
- Modelled N-Deposition in 2009
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

N-Deposition ($\mu\text{g}/\text{m}^3$)

- ≤ 20
- $>20 - 25$
- $>25 - 30$
- $>30 - 35$
- $>35 - 40$
- >40



Scale @ A3 1:80,000 Date 08-08-13

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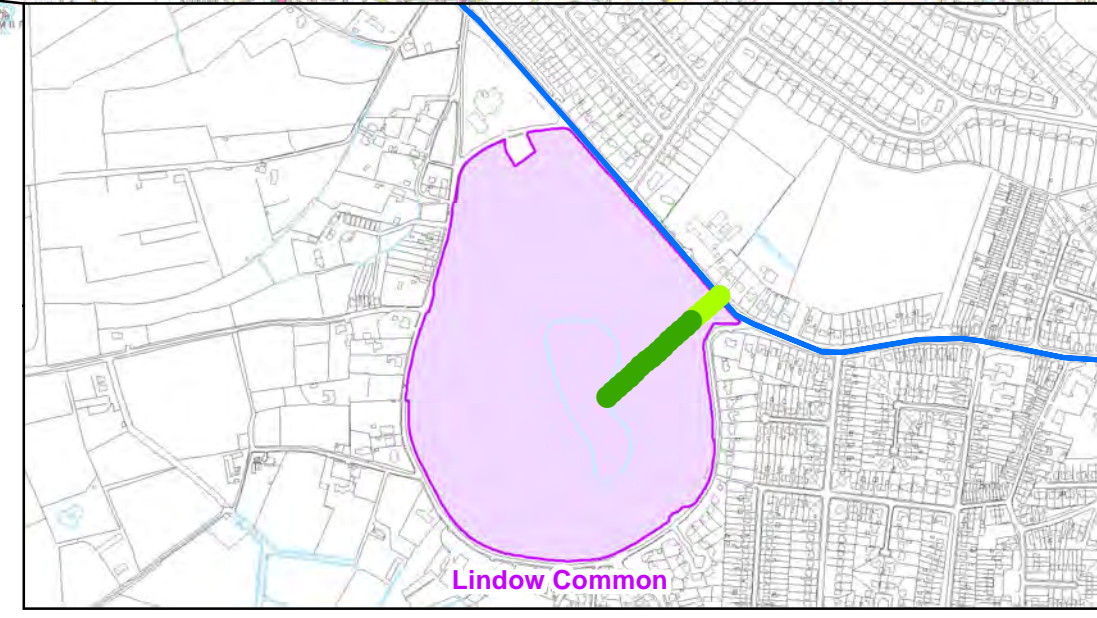
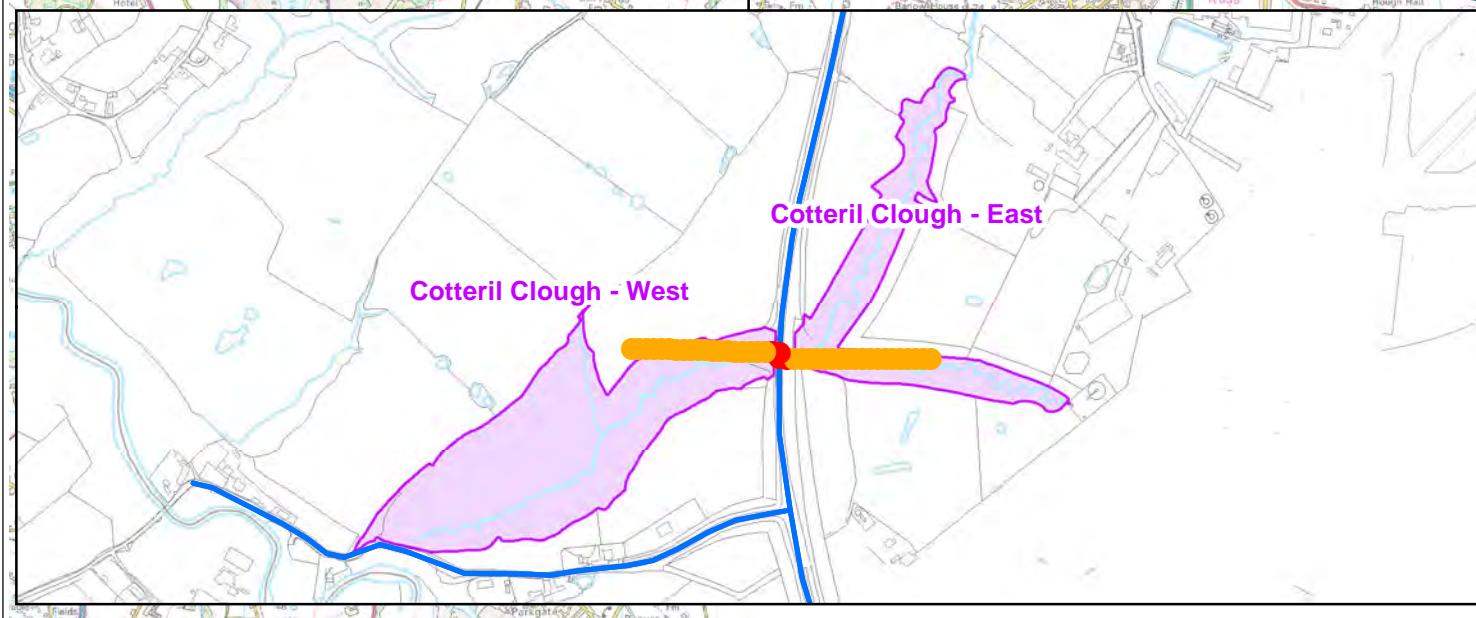


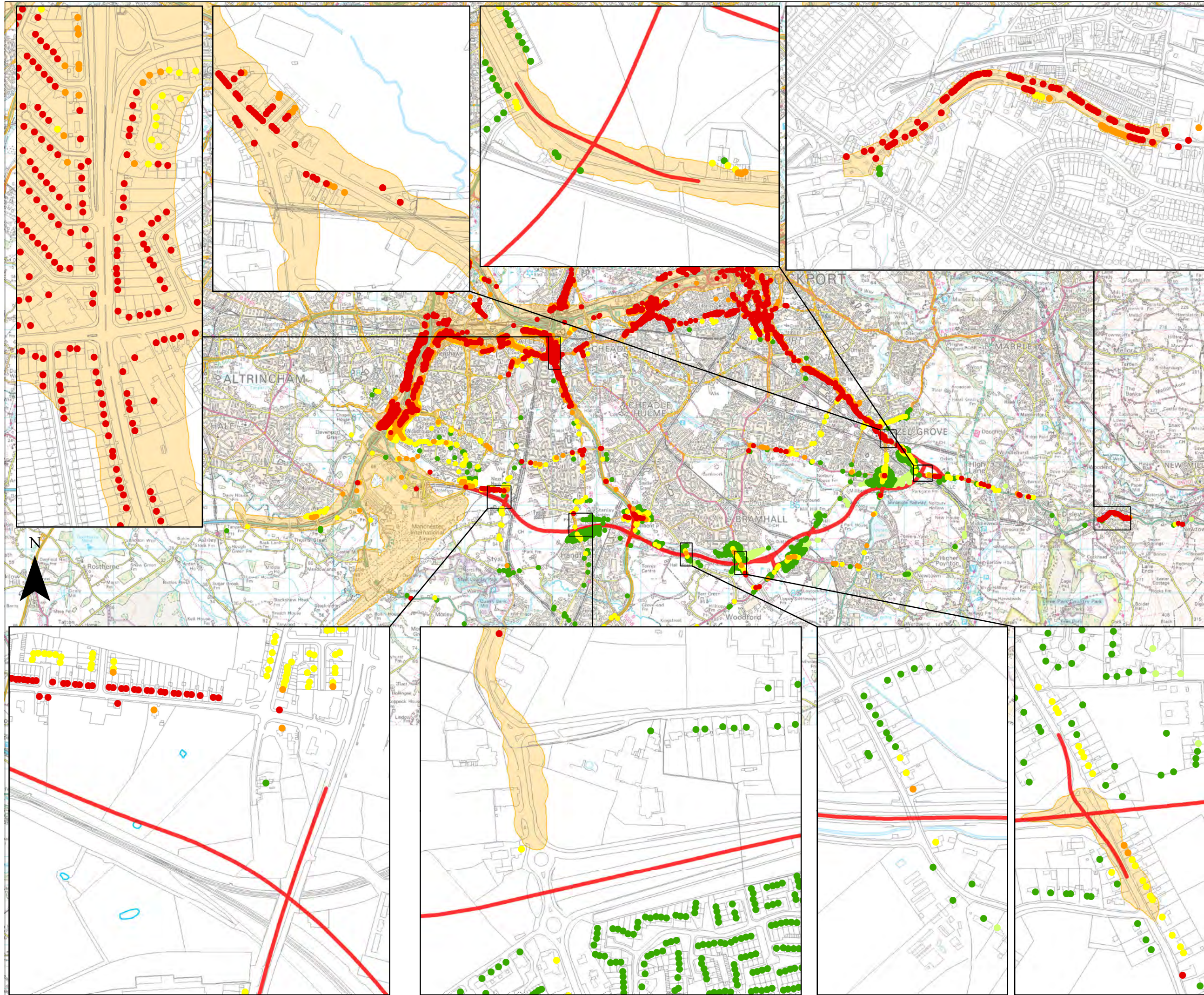
Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **MODELLED N-DEPOSITION AT THE DESIGNATED SITES IN 2009**

Figure No. **FIGURE 8.7**





LEGEND

- Scheme

Annual Mean NO₂ Concentration (µg/m³)

- ≤ 20
- >20 - 30
- >30 - 36
- >36 - 40
- >40

Air Quality Management Area (AQMA)

0 1000 2000 4000 m

Scale @ A3 1:80,000 Date 08-08-13

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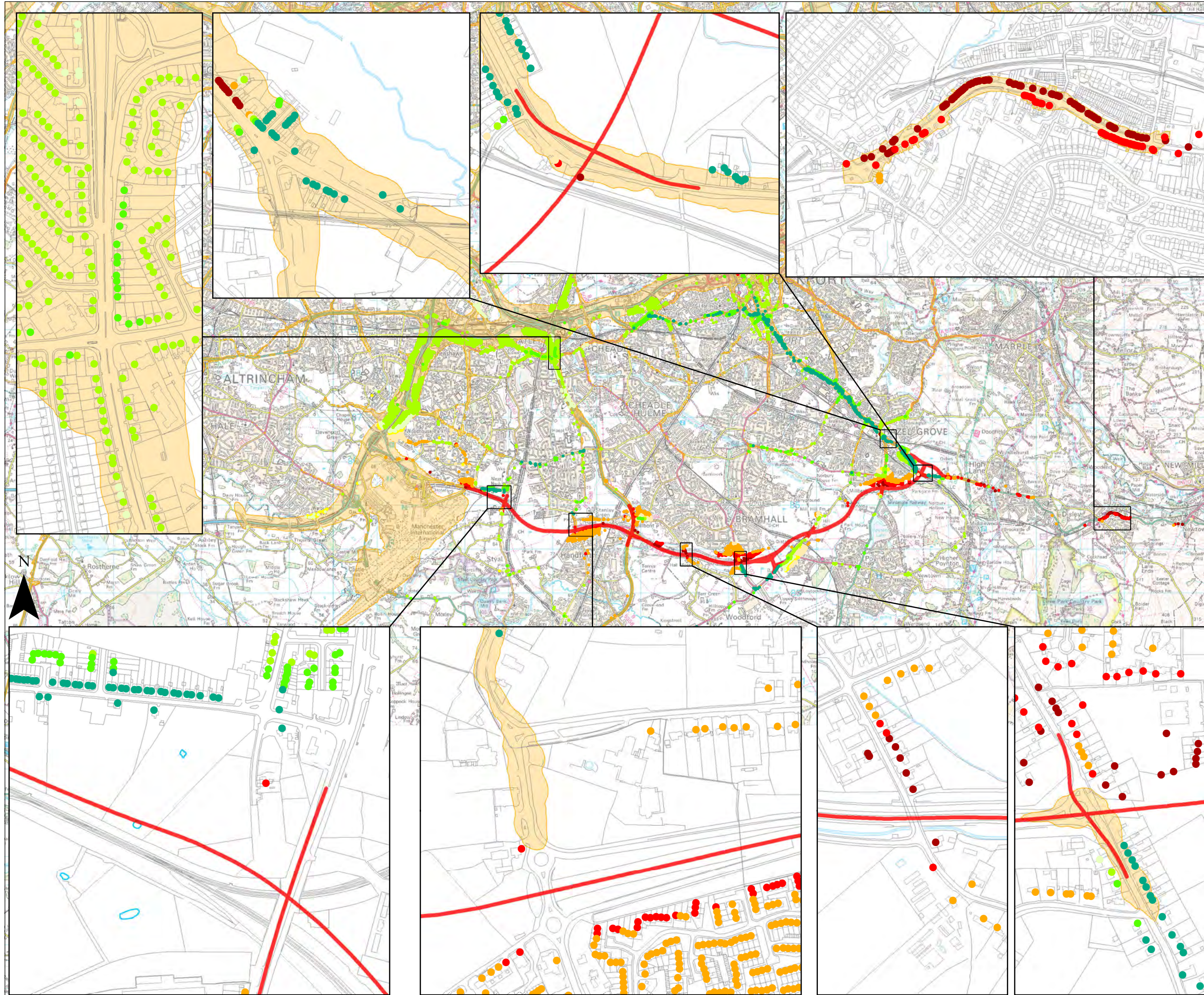
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Client Stockport M.B.C

Project SEMMMS A6 to Manchester Airport Relief Road

Title MODELLED ANNUAL MEAN NO₂ CONCENTRATIONS WITHOUT THE PROPOSED SCHEME

Figure No. FIGURE 8.8

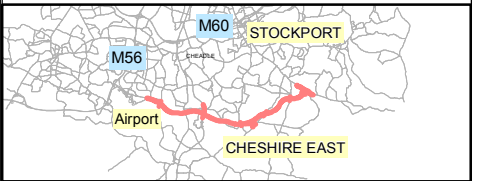


LEGEND

- Scheme

- Change in Annual Mean NO₂ Concentration (µg/m³)
- Decrease ≥ 4
- Decrease 2 to <4
- Decrease 0.4 to <2
- Decrease >0 to <0.4
- No change
- Increase >0 to <0.4
- Increase 0.4 to <2
- Increase 2 to <4
- Increase ≥4

- Air Quality Management Area (AQMA)



Scale @ A3 1:80,000 Date 08-08-13

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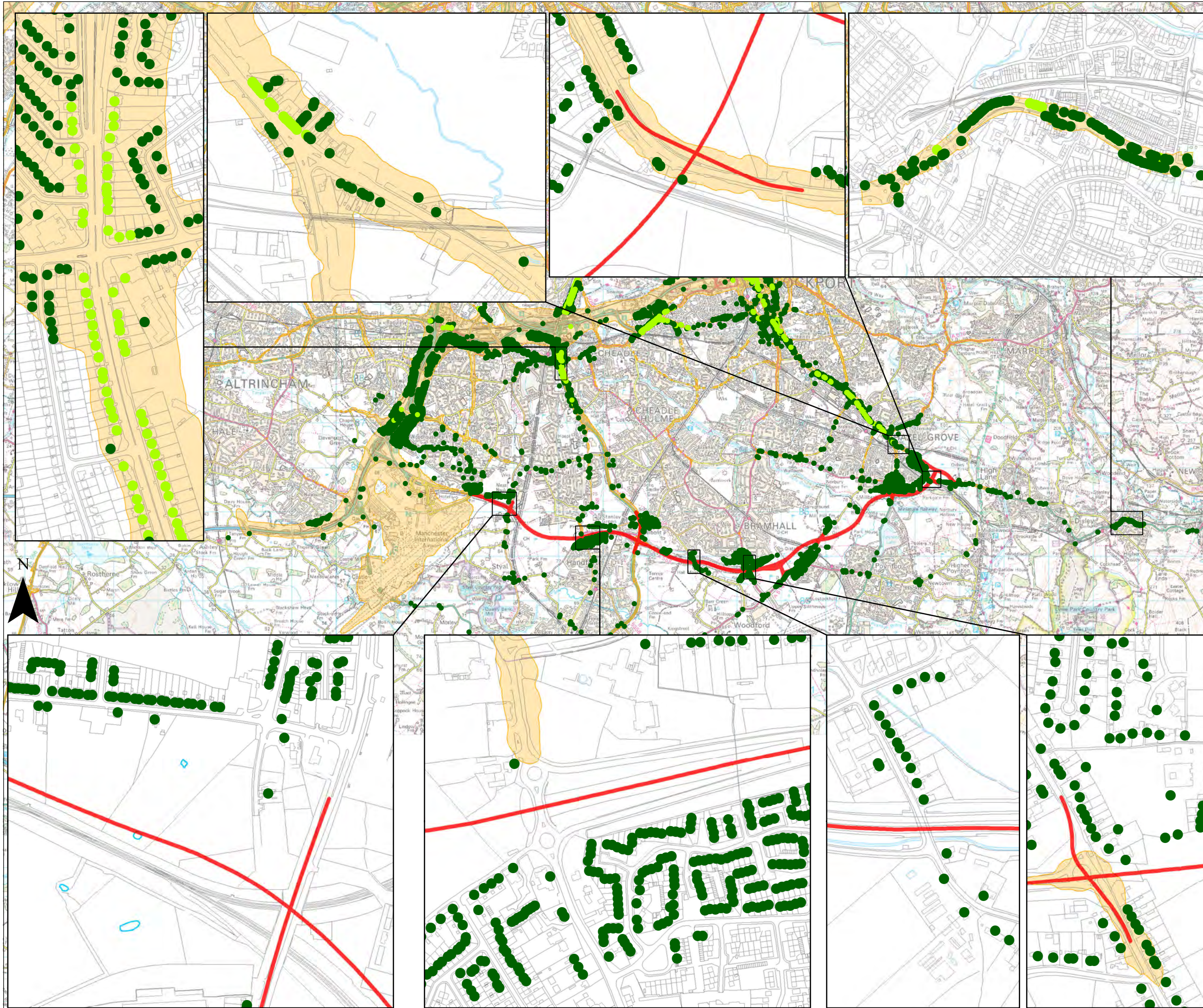


Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **CHANGES IN MODELLED ANNUAL MEAN NO₂ CONCENTRATIONS BETWEEN DM AND DS SCENARIOS**

Figure No. **FIGURE 8.10**

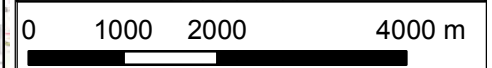
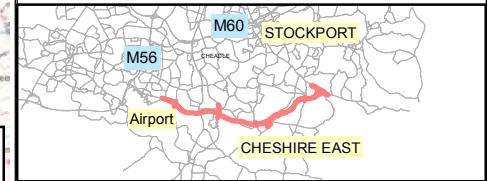


LEGEND

- Scheme

- Annual Mean PM₁₀ Concentration (µg/m³)
- ≤ 20
- 20 - 30
- 30 - 36
- 36 - 40
- >40

- Air Quality Management Area (AQMA)



Scale @ A3 1:80,000 Date 08-08-13

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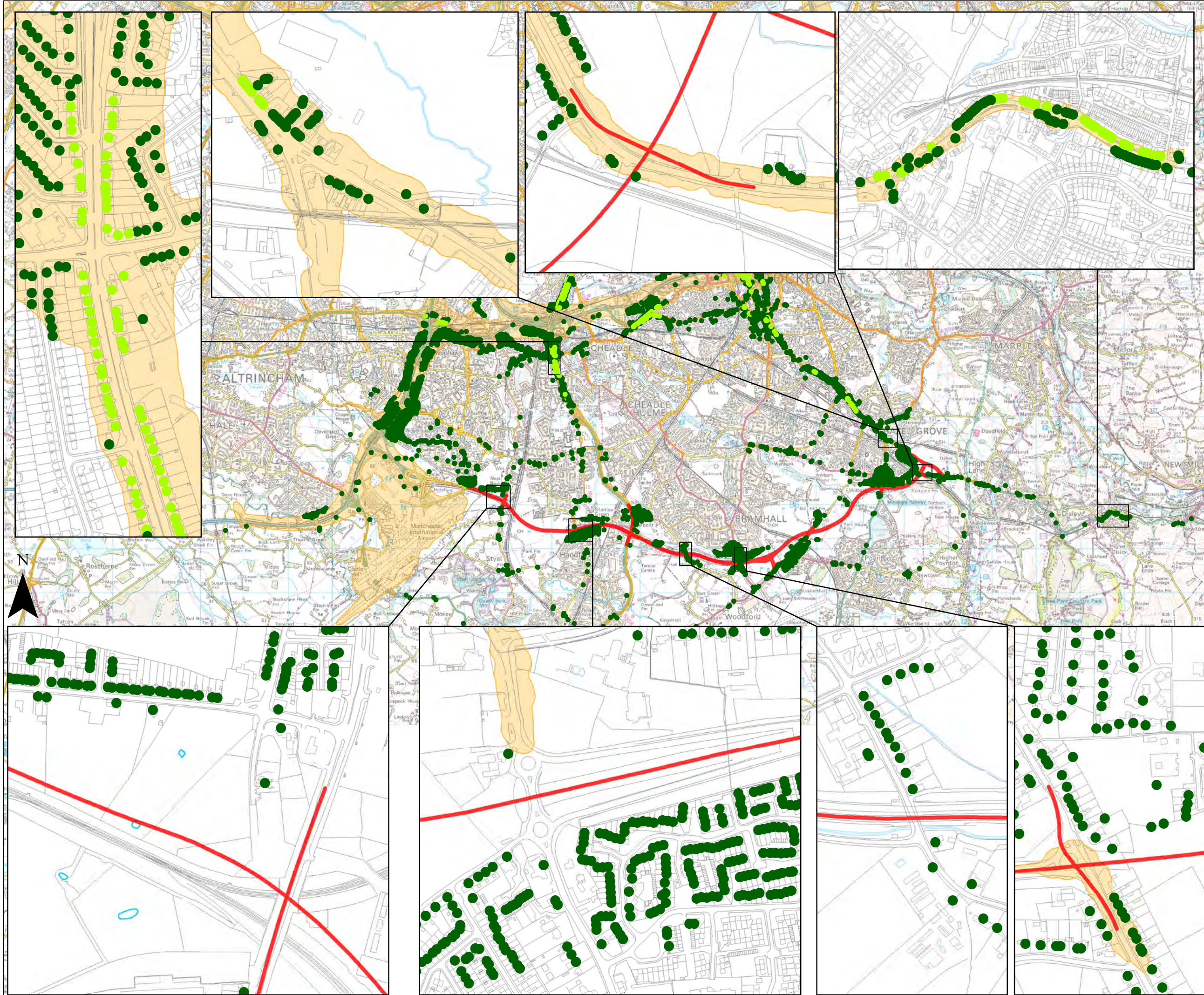


Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

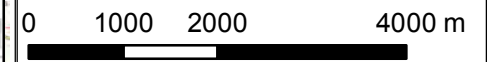
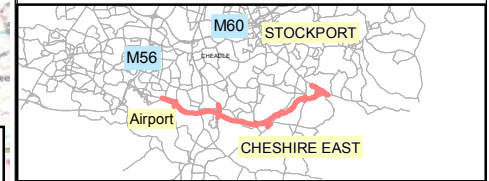
Title **MODELLLED ANNUAL MEAN PM₁₀ CONCENTRATIONS WITHOUT THE PROPOSED SCHEME**

Figure No. **FIGURE 8.11**



LEGEND

- Scheme
- Annual Mean PM₁₀ Concentration (µg/m³)
 - ≤ 20
 - 20 - 30
 - 30 - 36
 - 36 - 40
 - > 40
- Air Quality Management Area (AQMA)



Scale @ A3 1:80,000 Date 08-08-13

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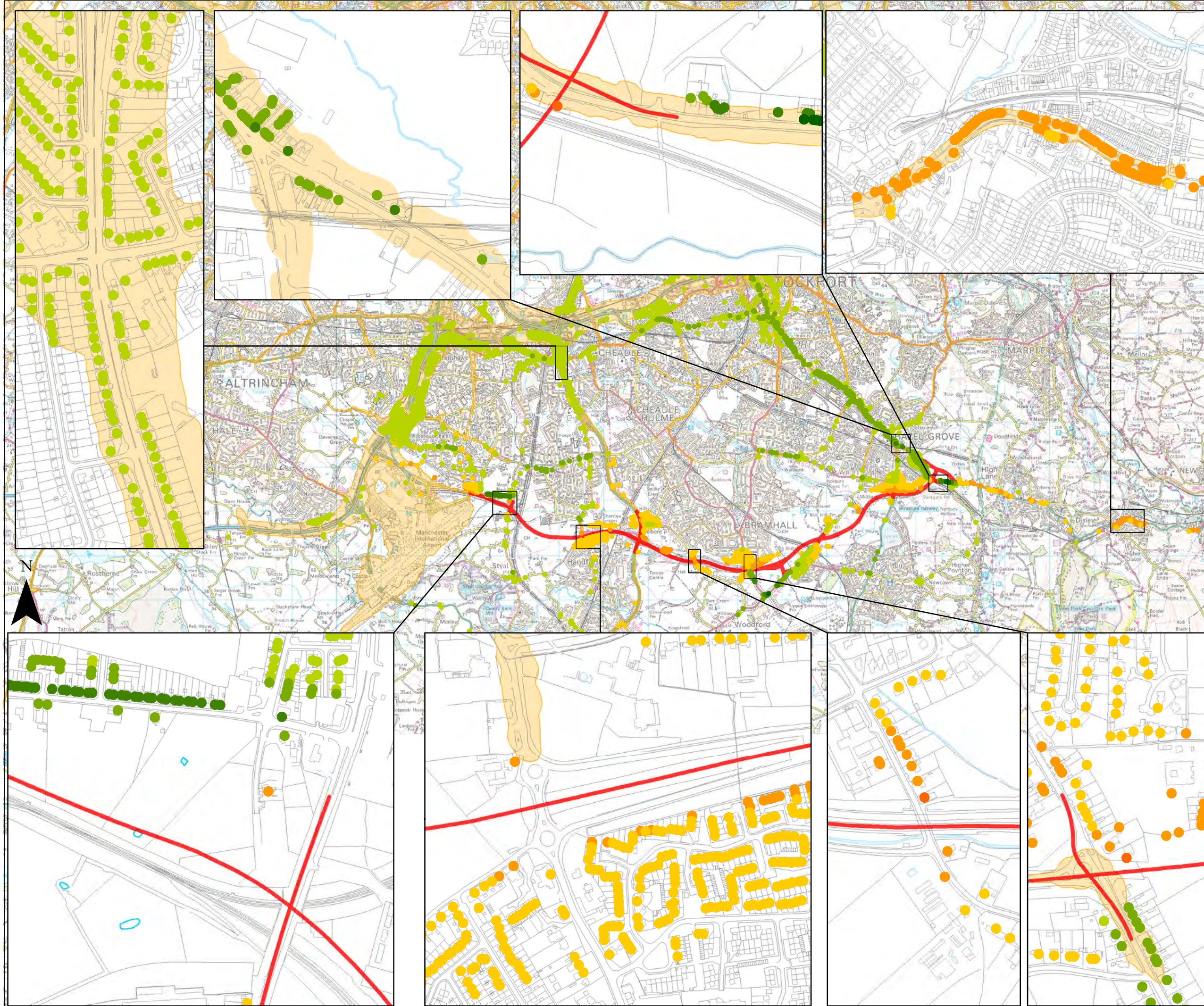


Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

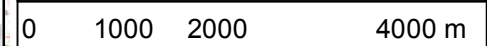
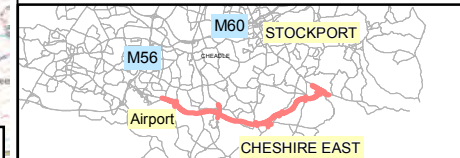
Title **MODELLED ANNUAL MEAN PM₁₀ CONCENTRATIONS WITH THE PROPOSED SCHEME**

Figure No. **FIGURE 8.12**



LEGEND

- Scheme
- Change in Annual Mean PM₁₀ Concentration (µg/m³)
 - Decrease >4
 - Decrease 4 to <2
 - Decrease 2 to <0.4
 - Decrease >0 to 0.4
 - No Change
 - Increase >0 to 0.4
 - Increase >0.4 to 2
 - Increase >2 to 4
 - Increase >4
- Air Quality Management Area (AQMA)



Scale @ A3 1:80,000 Date 08-08-13

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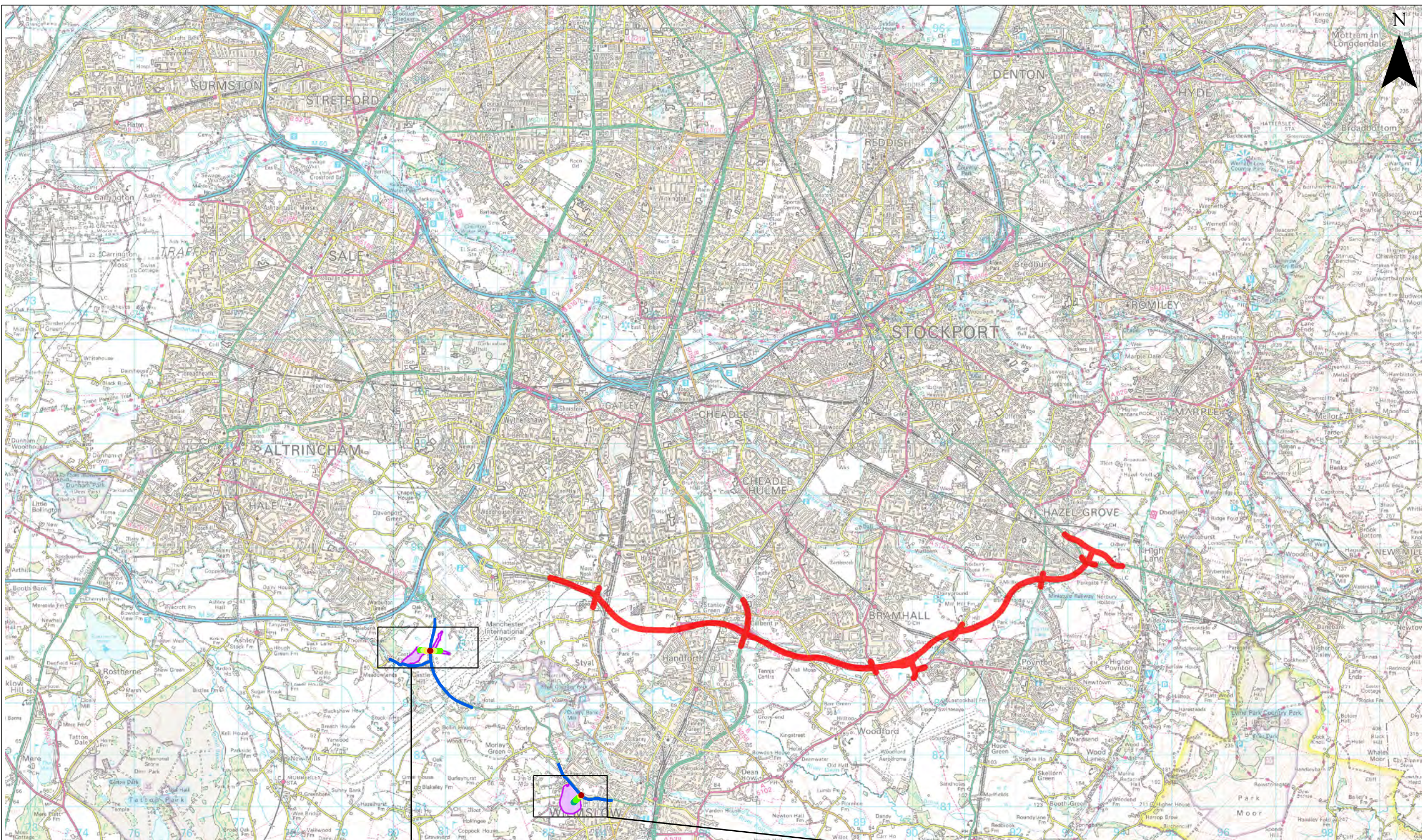


Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **CHANGES IN MODELLED ANNUAL MEAN PM₁₀ CONCENTRATIONS BETWEEN DM AND DS SCENARIOS**

Figure No. **FIGURE 8.13**

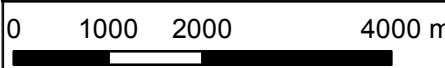
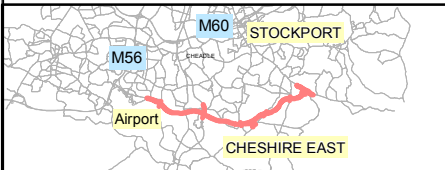


LEGEND

- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

Annual Mean NO_x Concentration (µg/m³)

- ≤ 20
- >20 - 30
- >30 - 36
- >36 - 40
- >40 - 100
- >100 - 150
- >150



Scale @ A3 1:80,000 Date 08-08-13

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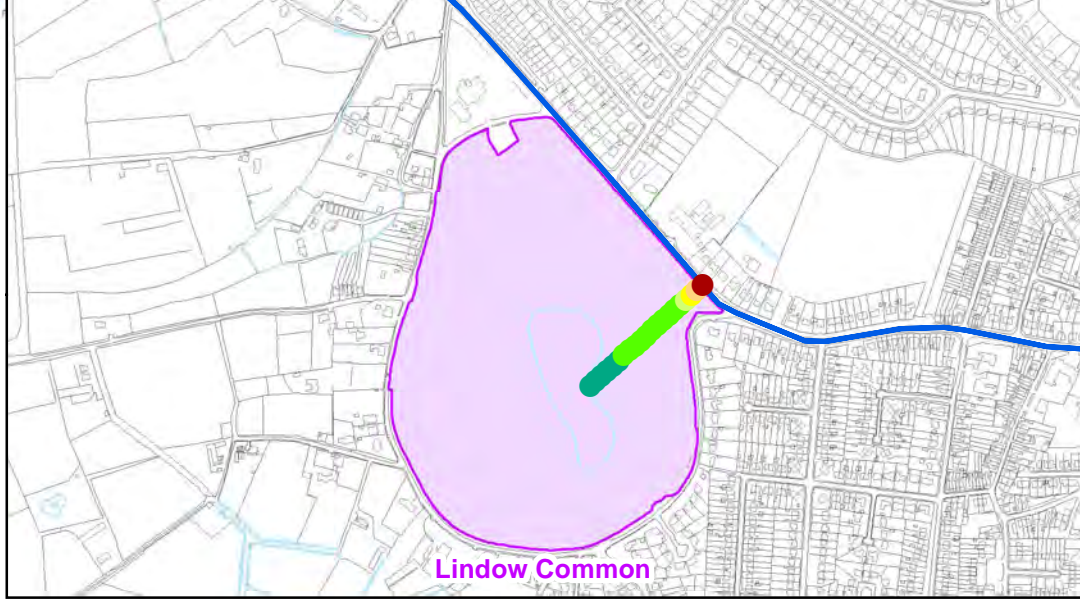
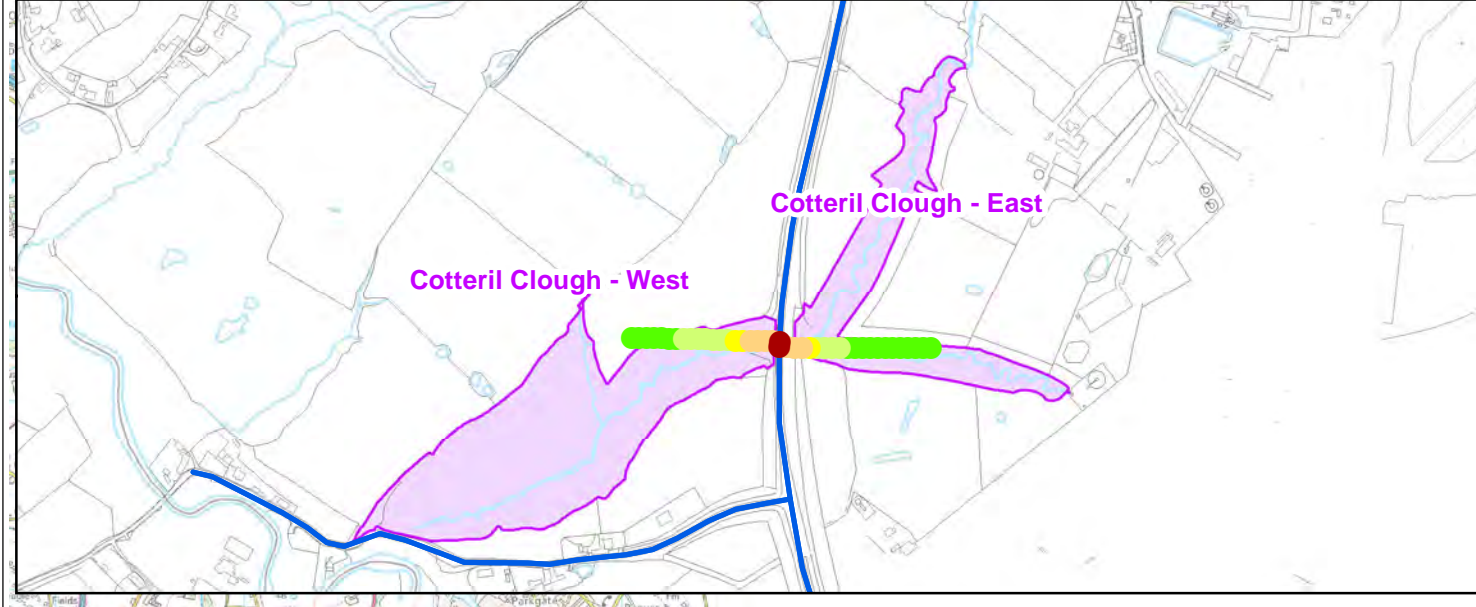


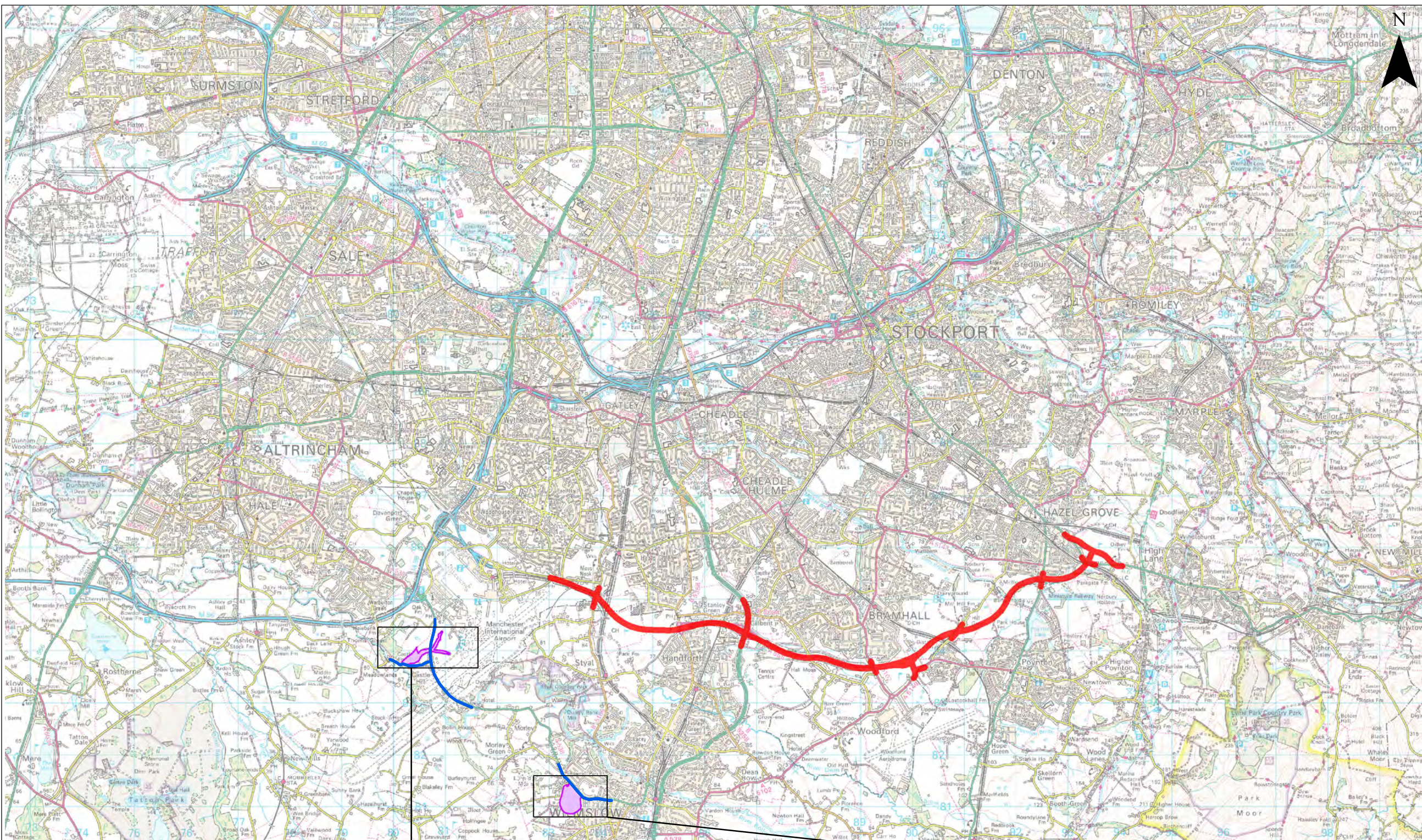
Client **Stockport M.B.C**

Project **SEMMS A6 to Manchester Airport Relief Road**

Title **MODELLED ANNUAL MEAN NO_x CONCENTRATIONS AT DESIGNATED SITES WITHOUT THE PROPOSED SCHEME**

Figure No. **FIGURE 8.14**



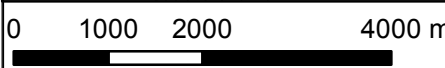
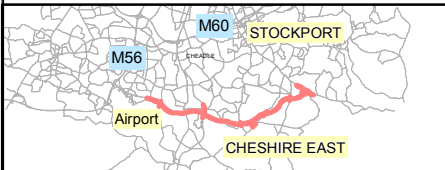


LEGEND

- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

Annual Mean NO_x Concentration with the Scheme (µg/m³)

- ≤ 20
- >20 - 30
- >30 - 36
- >36 - 40
- >40 - 100
- >100 - 150
- >150



Scale @ A3 1:80,000 Date 08-08-13

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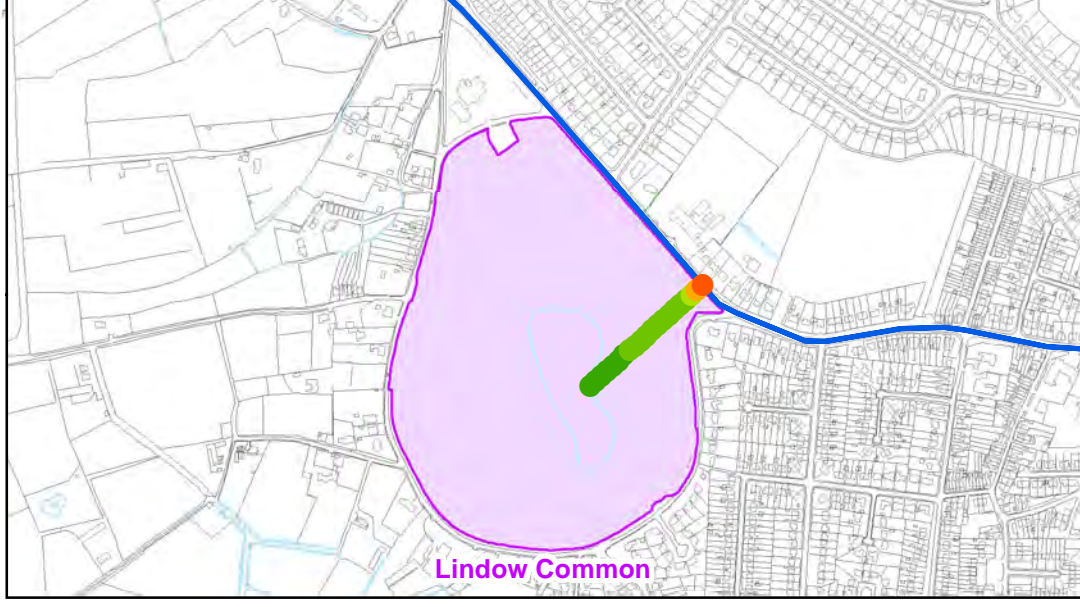
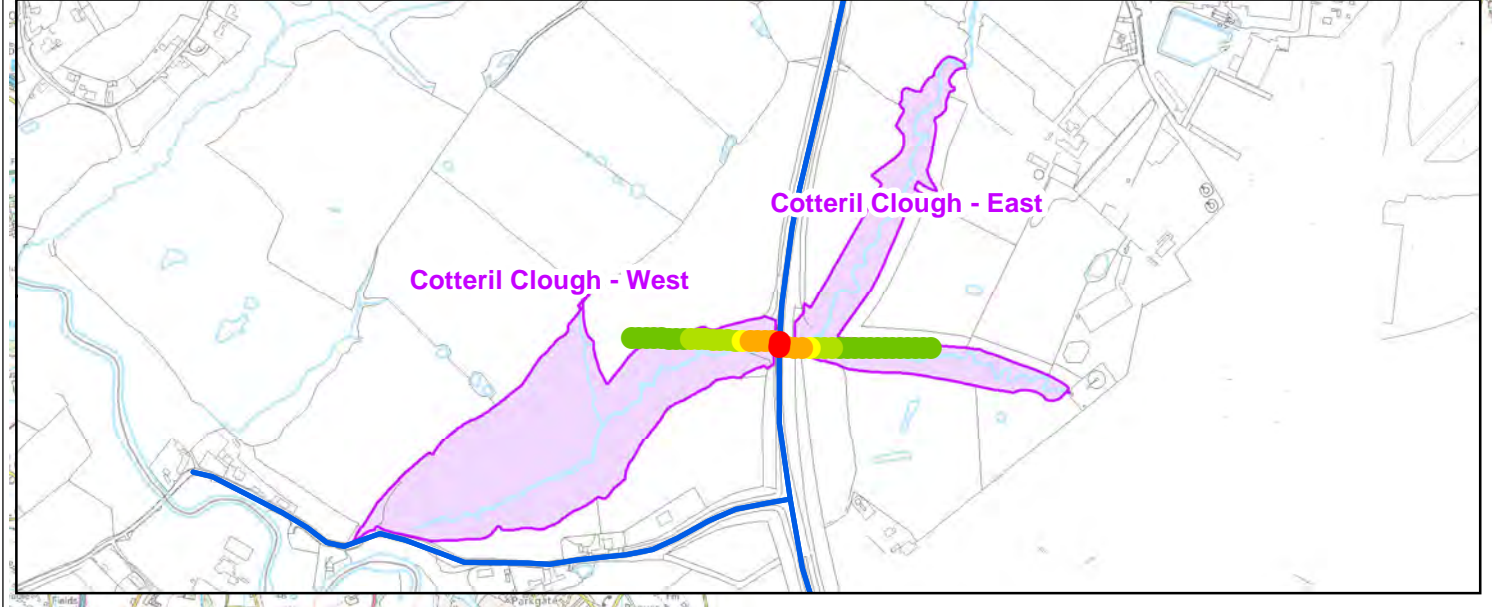


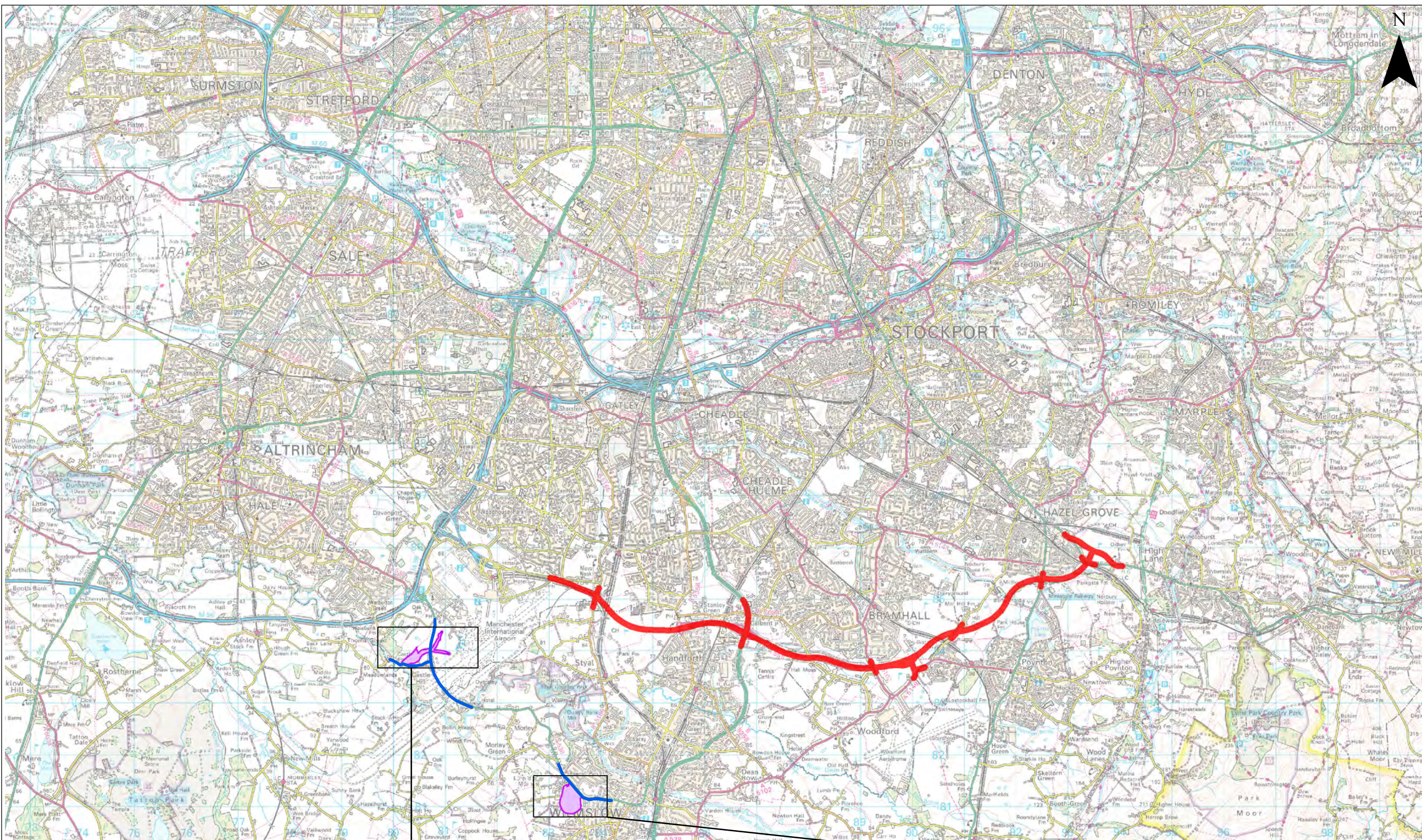
Client **Stockport M.B.C**

Project **SEMMS A6 to Manchester Airport Relief Road**

Title **MODELLED ANNUAL MEAN NO_x CONCENTRATIONS AT DESIGNATED SITES WITH THE PROPOSED SCHEME**

Figure No. **FIGURE 8.15**



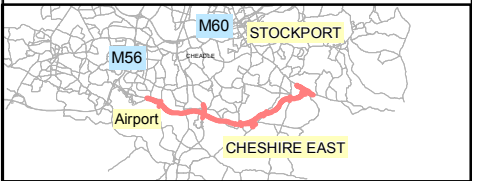


LEGEND

- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

Change in NO_x Concentrations with Scheme (µg/m³)

- Decrease ≥ 15
- Decrease 10 to <15
- Decrease 5 to <10
- Decrease 2.5 to <5
- Decrease 1 to <2.5
- Decrease >0 to <1



Scale @ A3 1:80,000 Date 08-08-13

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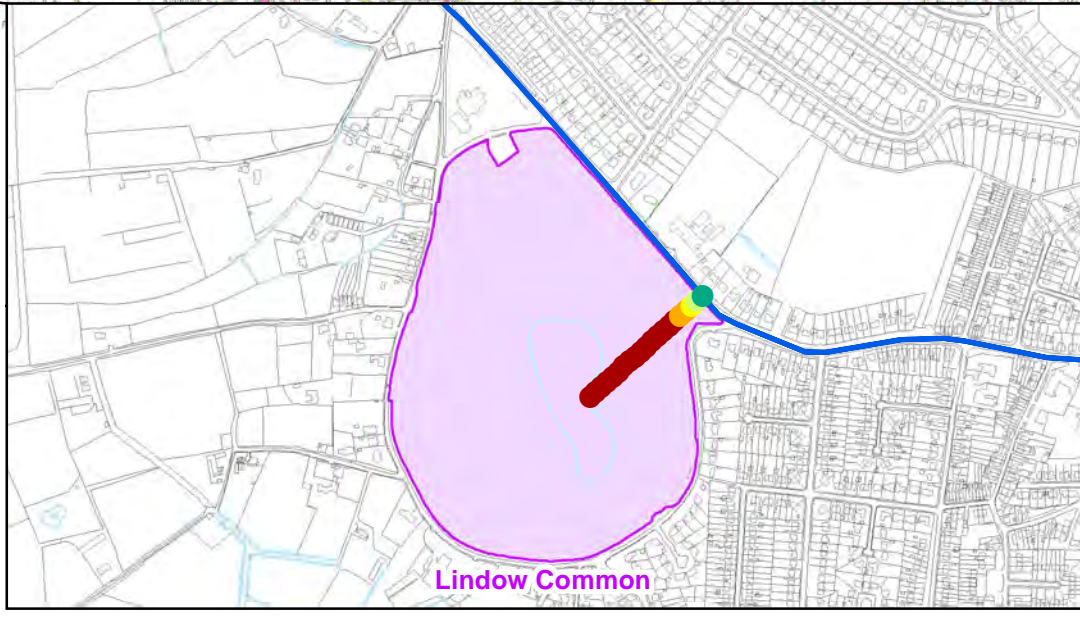
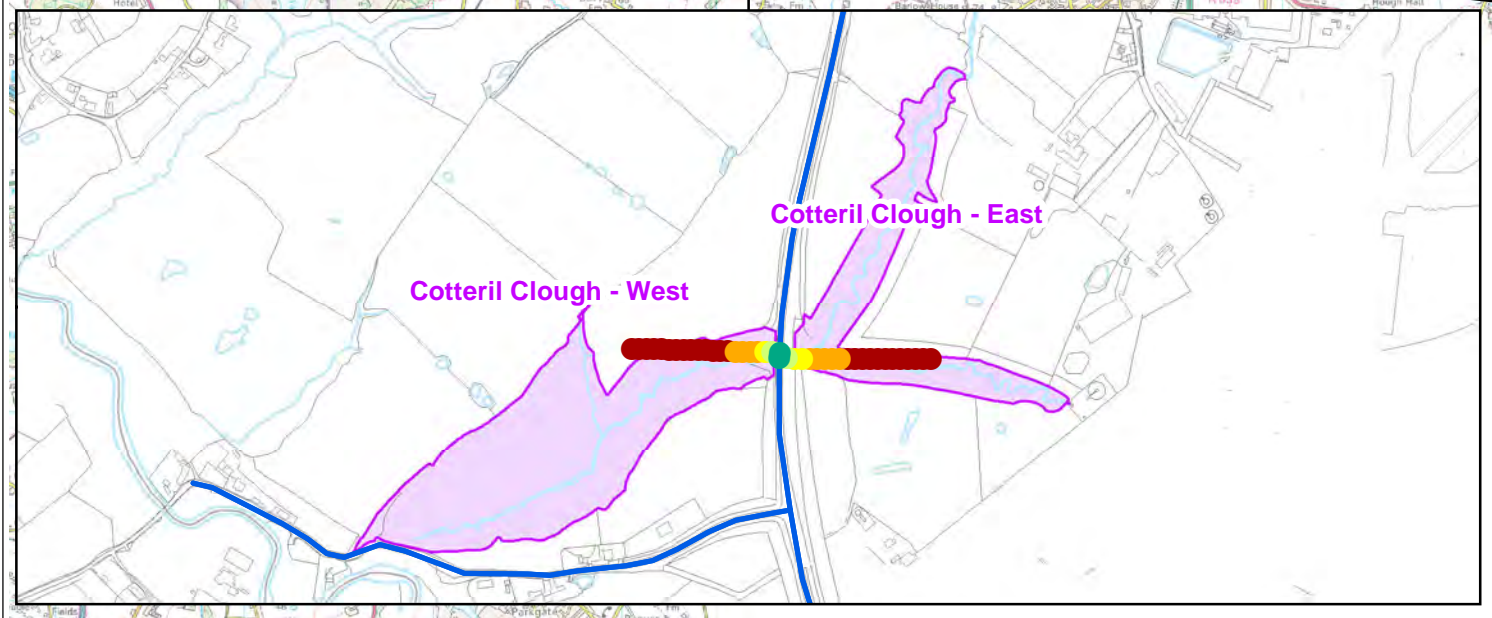


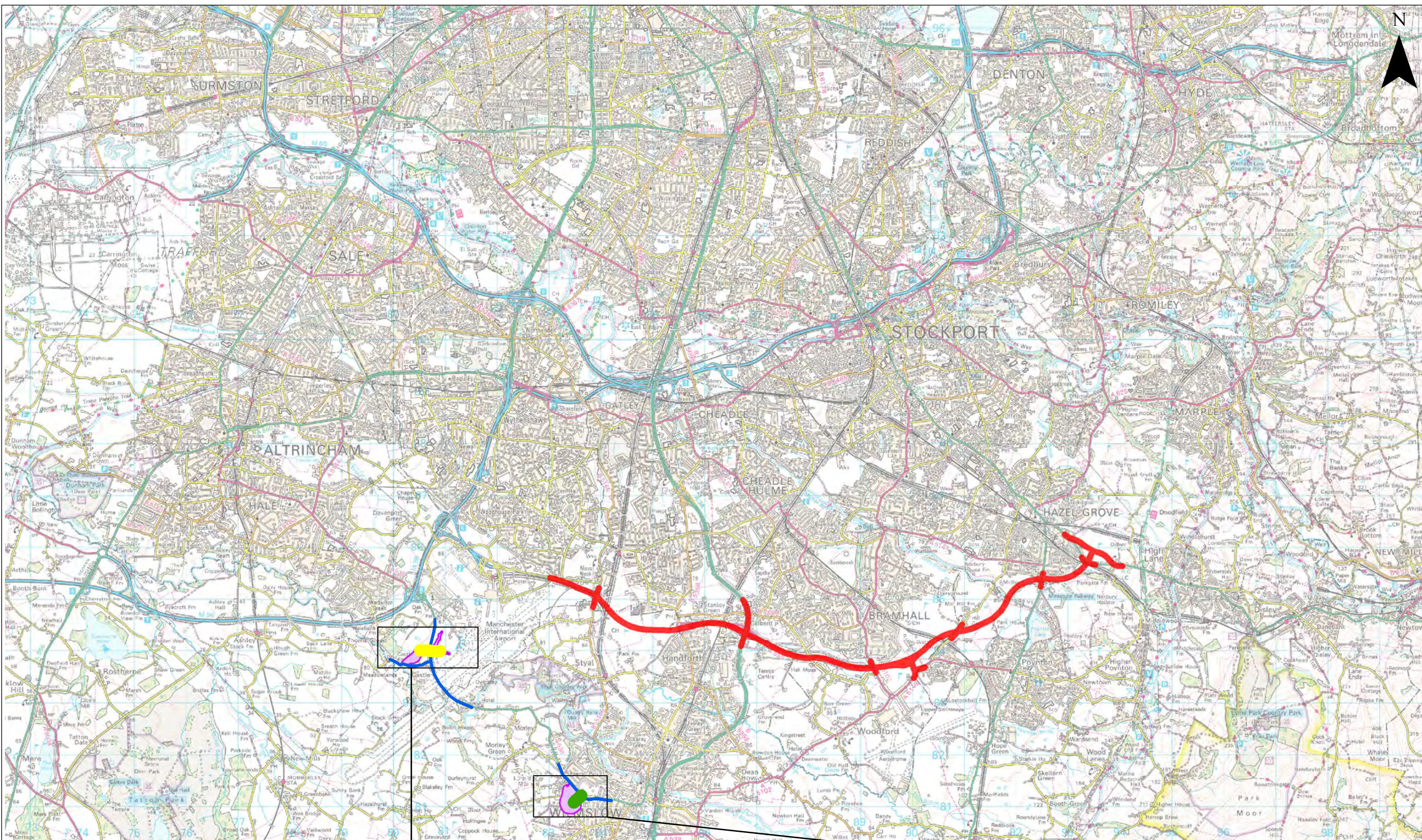
Client **Stockport M.B.C**

Project **SEMMMS A6 to Manchester Airport Relief Road**

Title **CHANGES IN MODELLED ANNUAL MEAN NO_x CONCENTRATIONS AT DESIGNATED SITES BETWEEN DM AND DS SCENARIOS**

Figure No. **FIGURE 8.16**



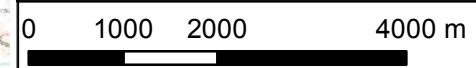
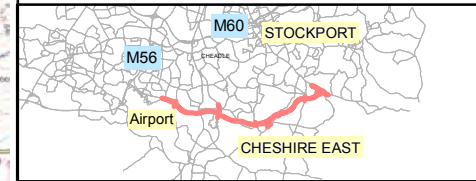


LEGEND

- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

**N-Deposition
($\mu\text{g}/\text{m}^3$)**

- ≤ 20
- >20 - 25
- >25 - 30
- >30 - 35
- >35 - 40



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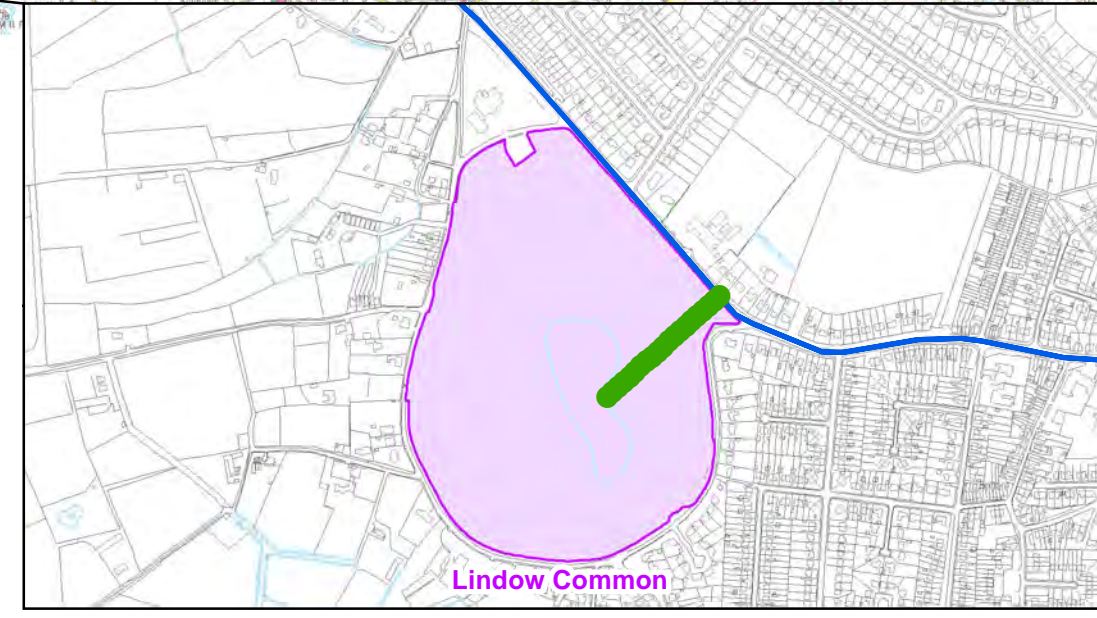
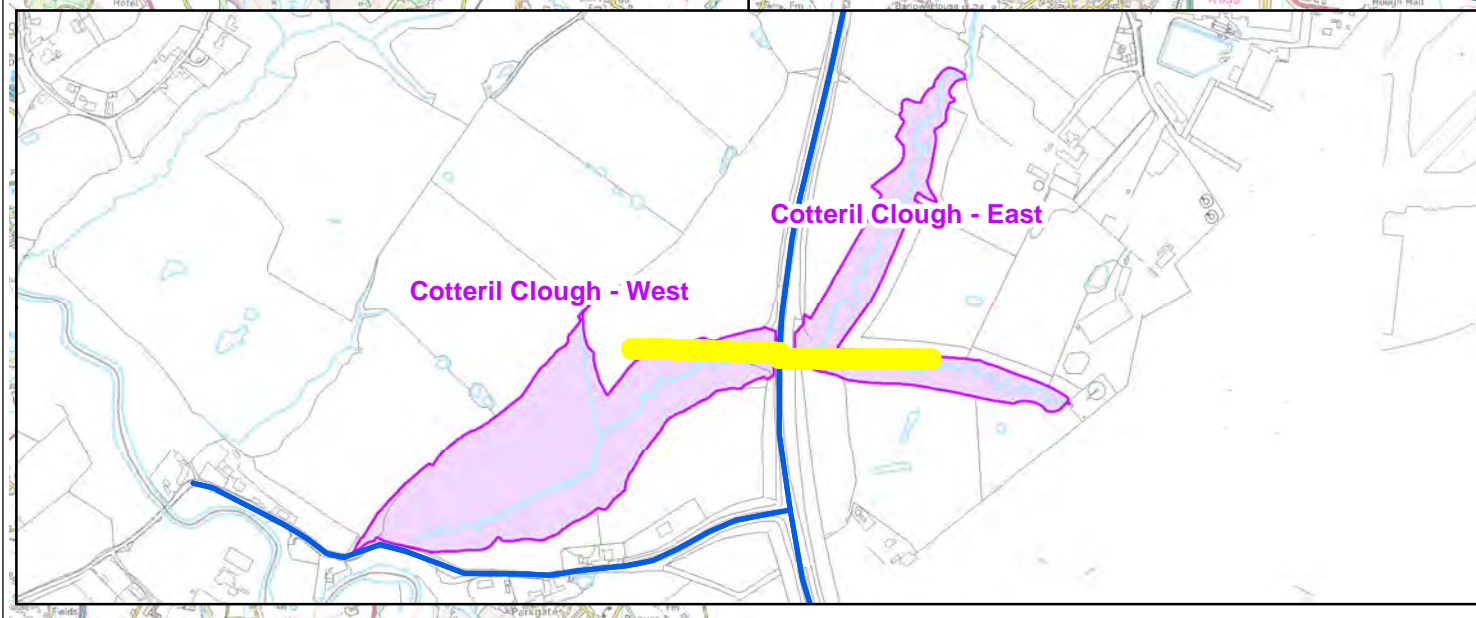


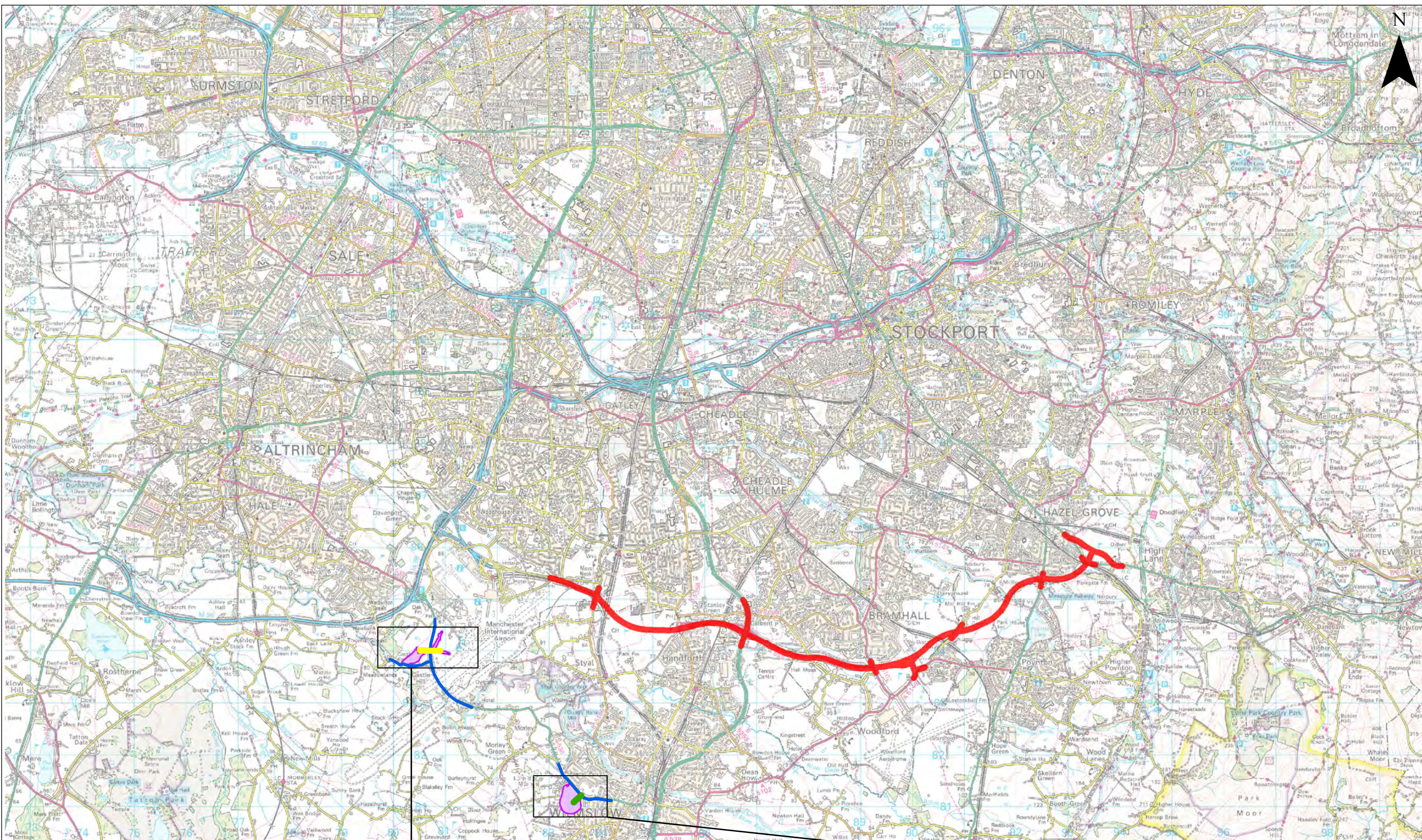
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Title MODELLED N-DEPOSITIONS AT DESIGNATED SITES WITHOUT THE PROPOSED SCHEME

Figure No. FIGURE 8.17



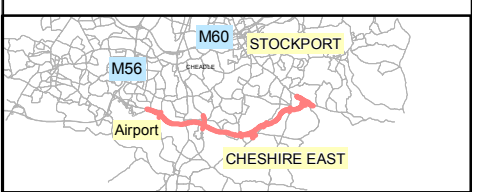


LEGEND

- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

N-Deposition
($\mu\text{g}/\text{m}^3$)

- ≤20
- >20 - 25
- >25 - 30
- >30 - 35
- >35 - 40
- >40



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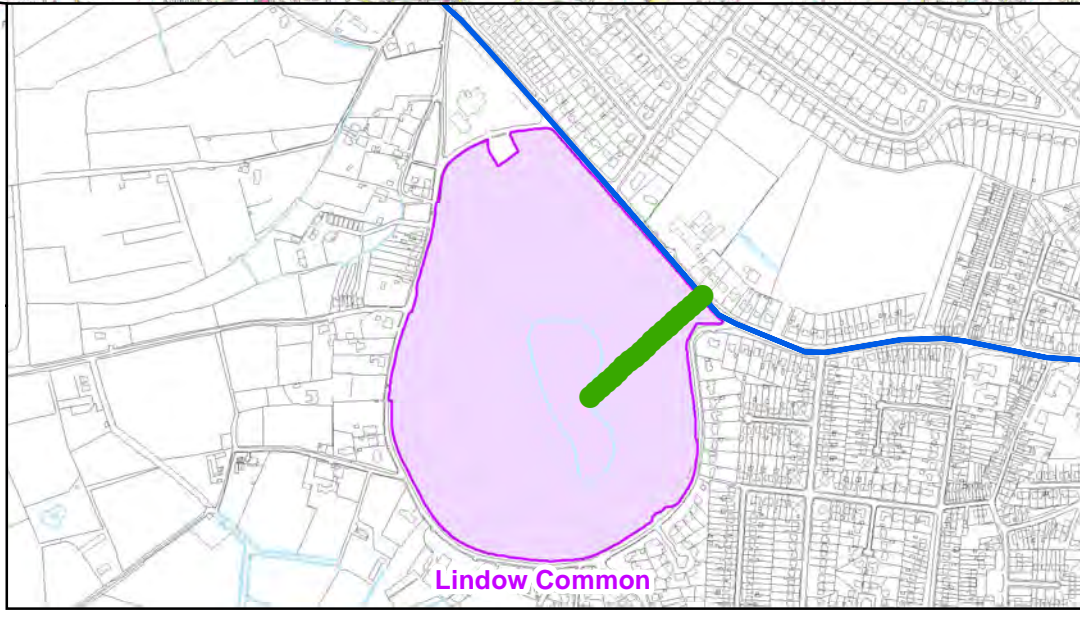
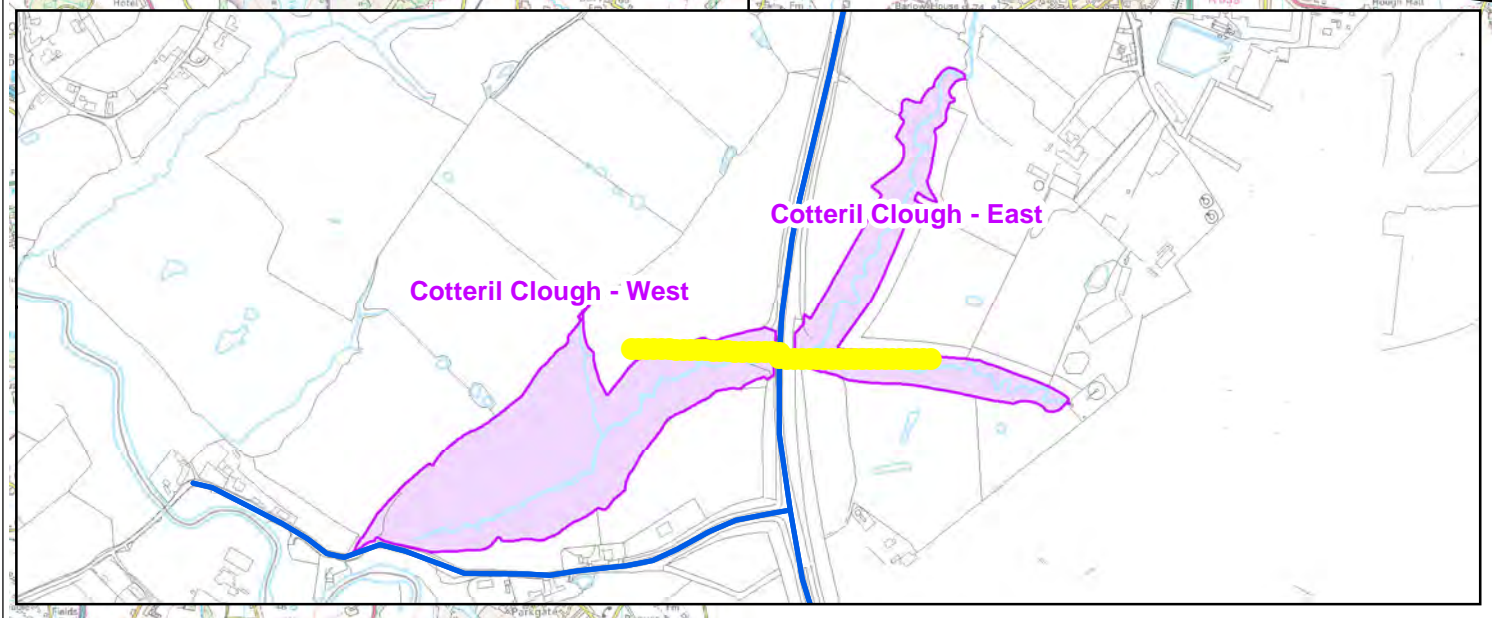


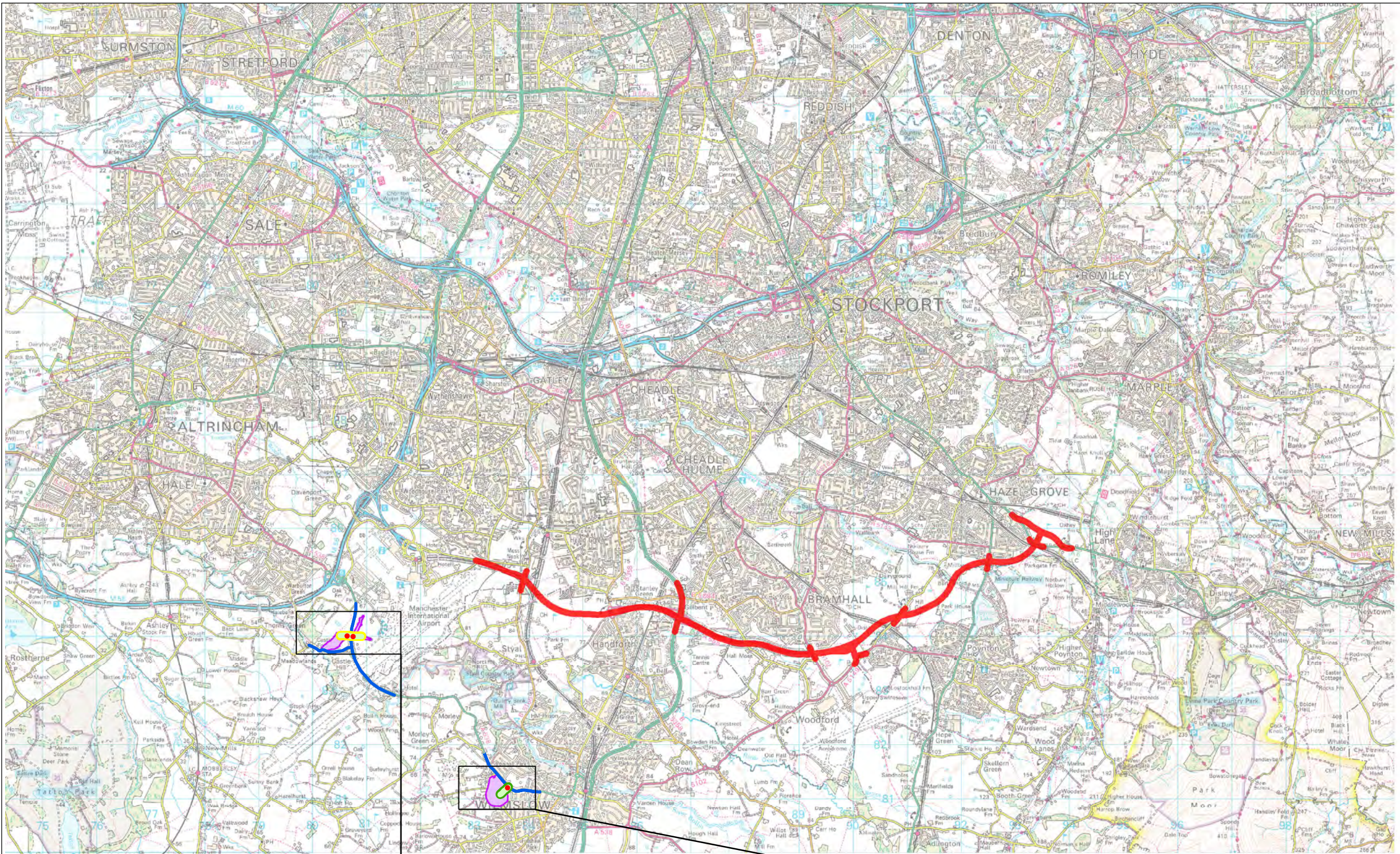
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Title MODELLED N-DEPOSITIONS AT DESIGNATED SITES WITH THE PROPOSED SCHEME

Figure No. FIGURE 8.18





LEGEND

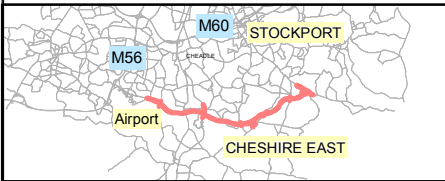
- Scheme
- DMRB Affected Links
- Site of Special Scientific Interest (SSSI) / Designated Site

Change in N-Deposition ($\mu\text{g}/\text{m}^3$)

- Decrease >1
- Decrease >0 to 1
- No change
- Increase >0 to 1
- Increase >1

N-deposition With Scheme

- ≤ 20
- >20 - 25
- >25 - 30
- >30 - 35
- >35 - 40
- >40



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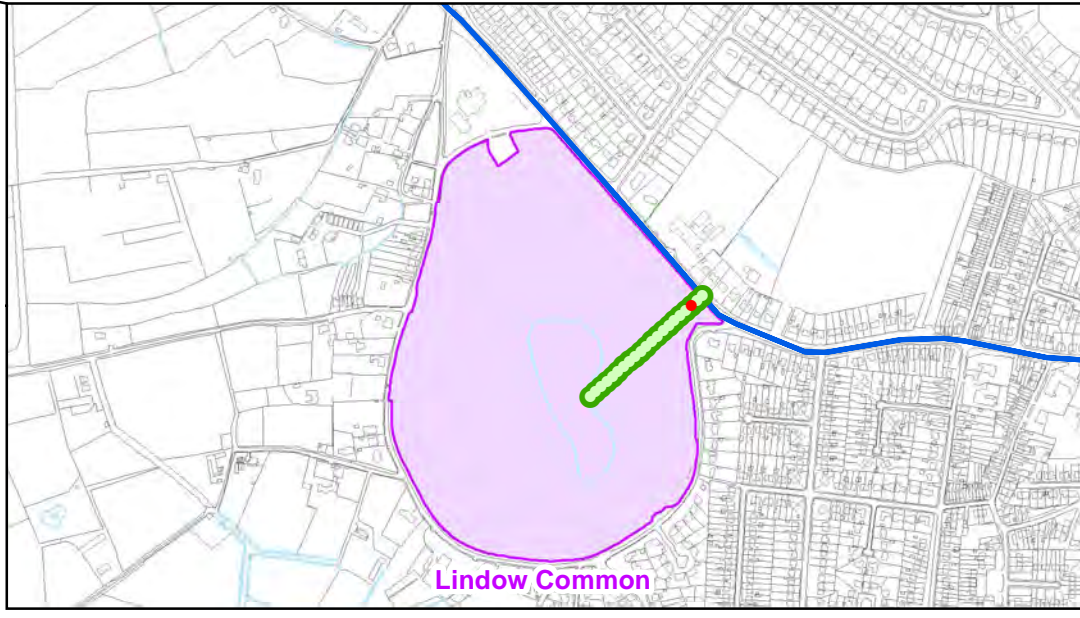
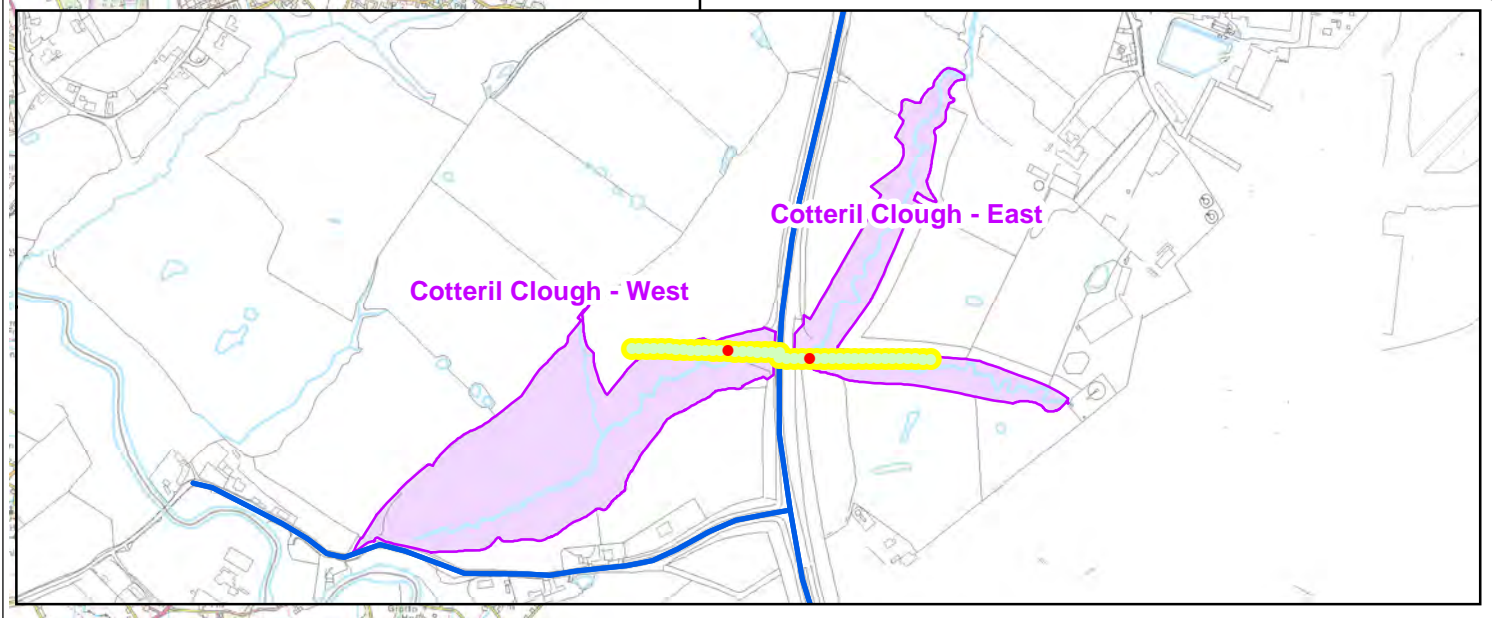


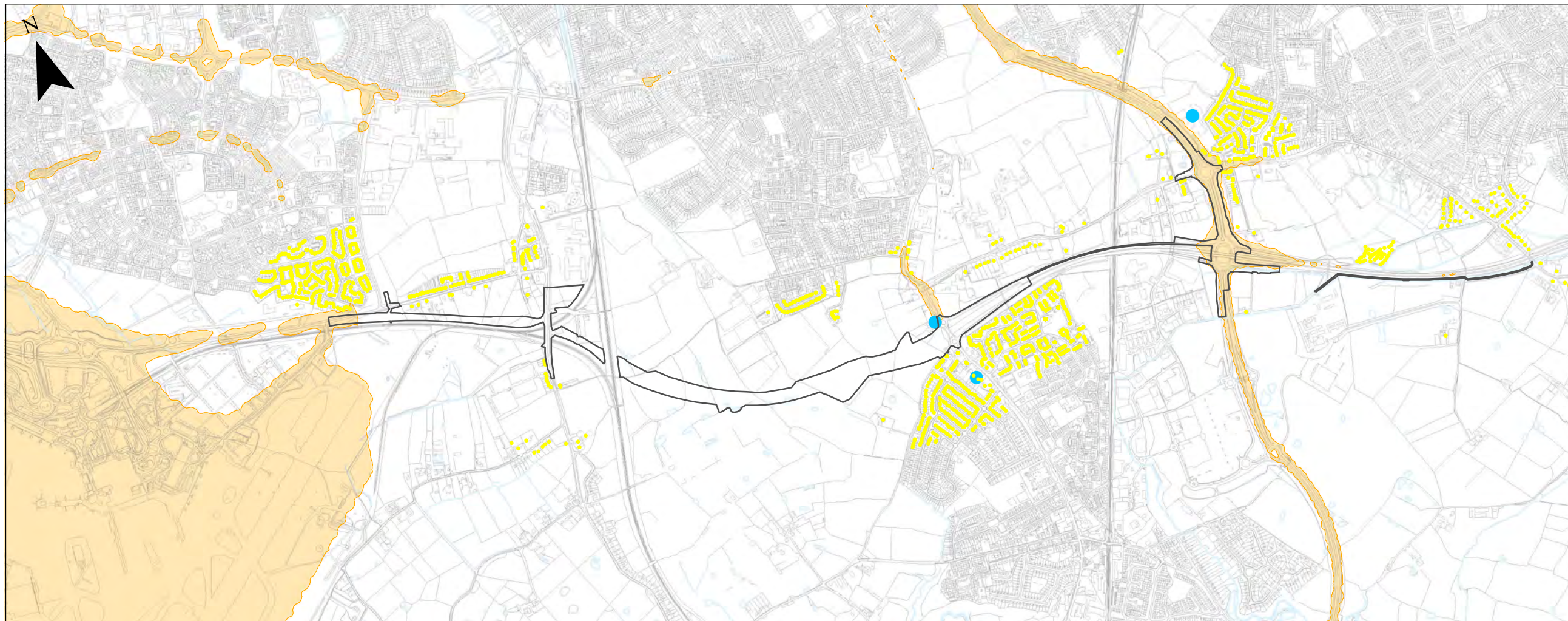
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Title CHANGES IN MODELLED N-DEPOSITIONS AT DESIGNATED SITES BETWEEN DM AND DS SCENARIOS

Figure No. FIGURE 8.19



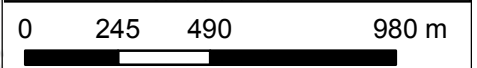
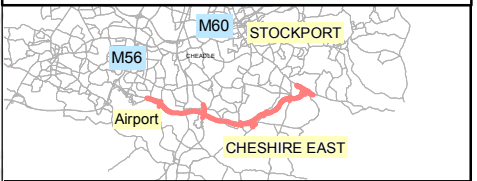
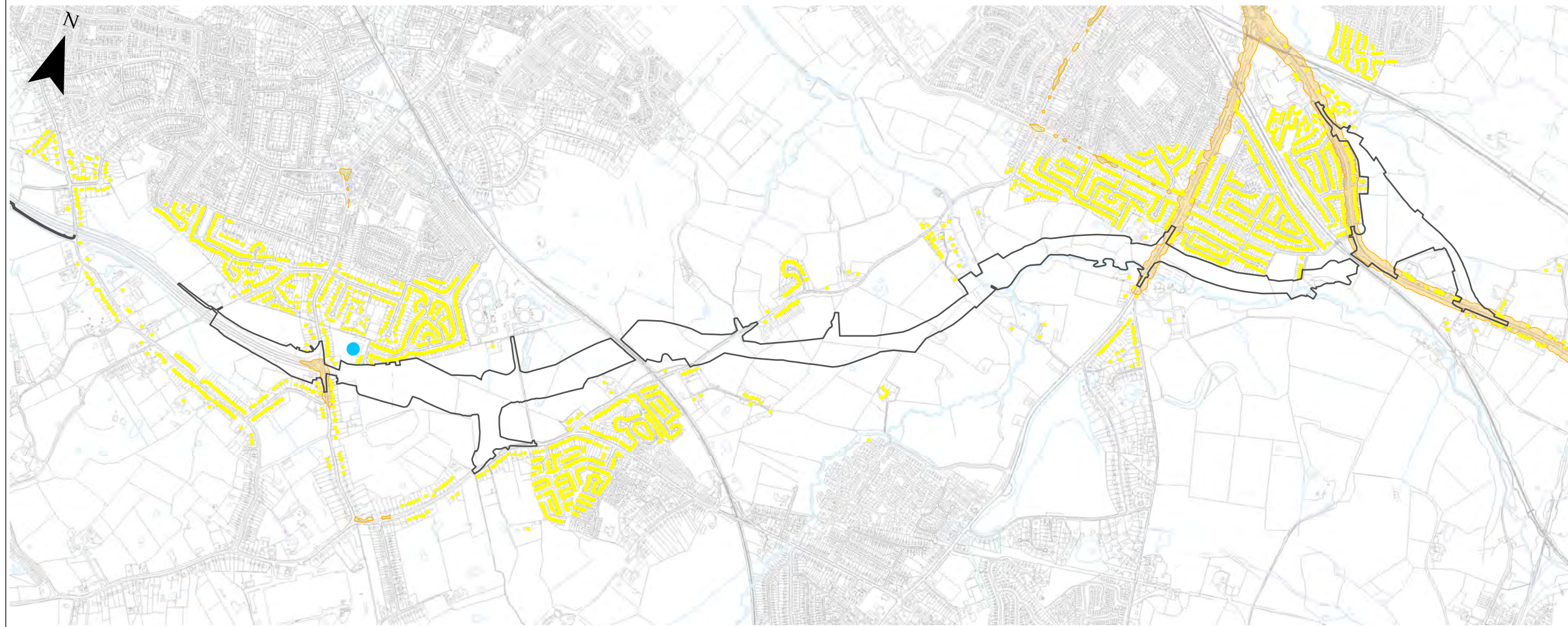
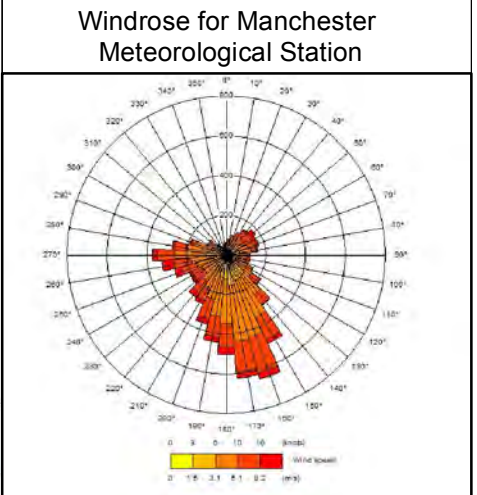


LEGEND

- Scheme
- Site Clearance Boundary

Relevant Receptors within 350m of CPO Boundary

- Nurseries and Schools
- Residences
- Air Quality Management Area (AQMA)



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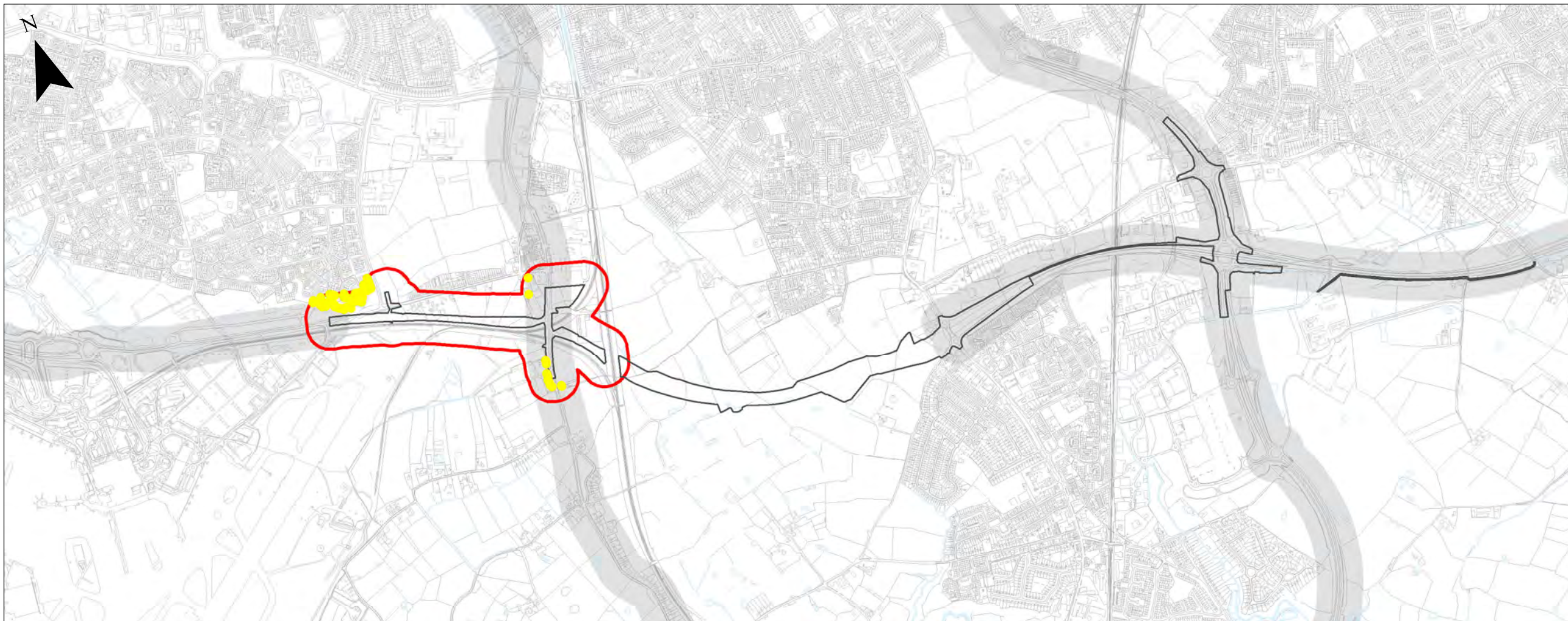


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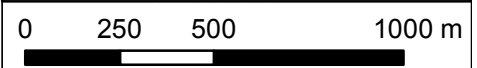
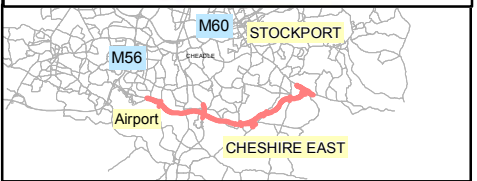
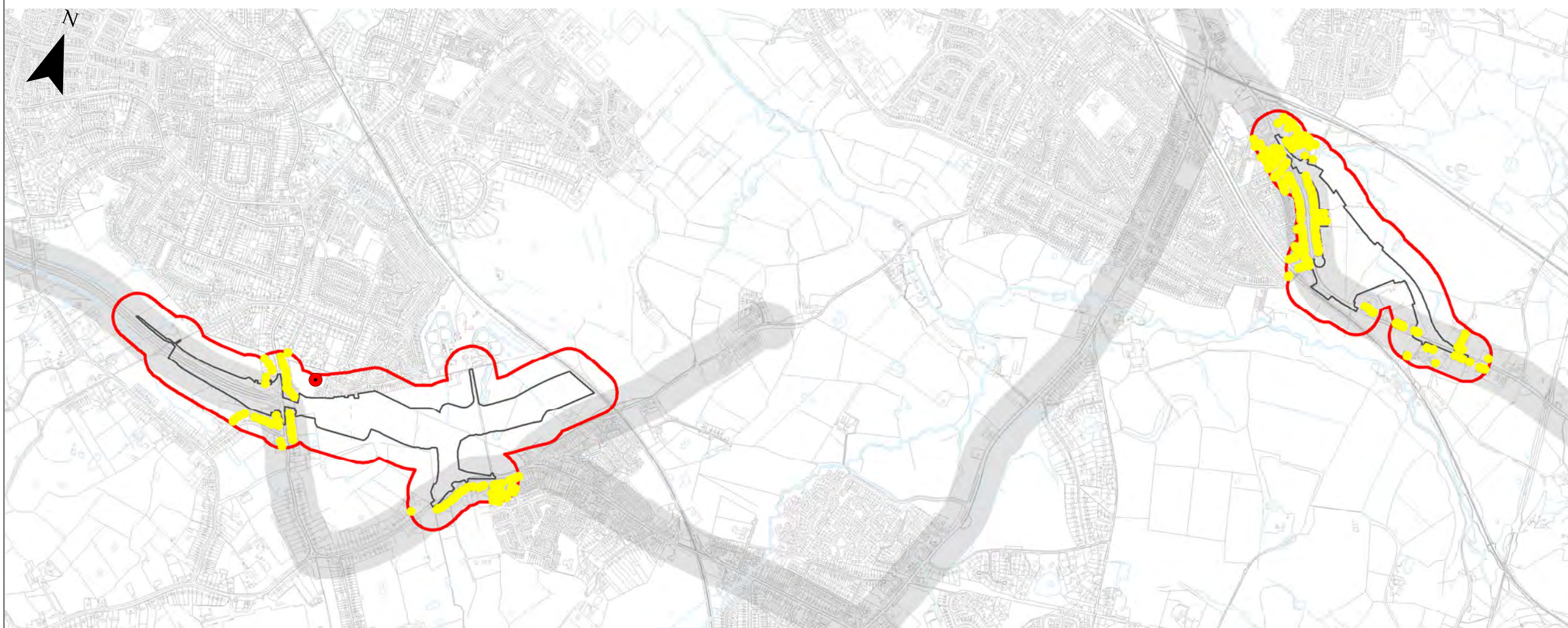
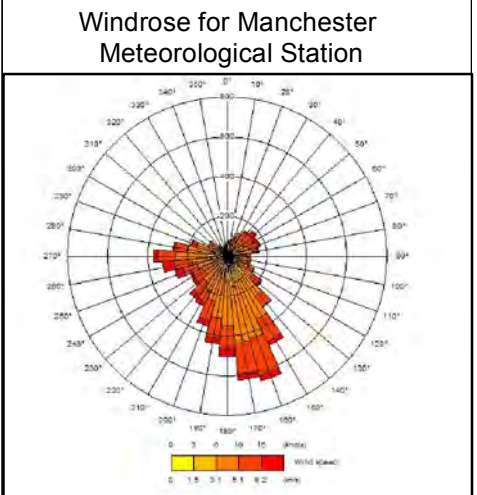
Title **RECEPTORS LIKELY TO EXPERIENCE DUST DEPOSITION DURING CONSTRUCTION AND EARTHWORKS ACTIVITIES**

Figure No. **FIGURE 8.20**



LEGEND

- Nurseries and Schools
- Residences
- Site Clearance Boundary
- Site Entrance Buffer 100m
- Construction Traffic Routes



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Title RECEPTORS LIKELY TO EXPERIENCE DUST DEPOSITION DURING TRACKOUT

Figure No. FIGURE 8.21