

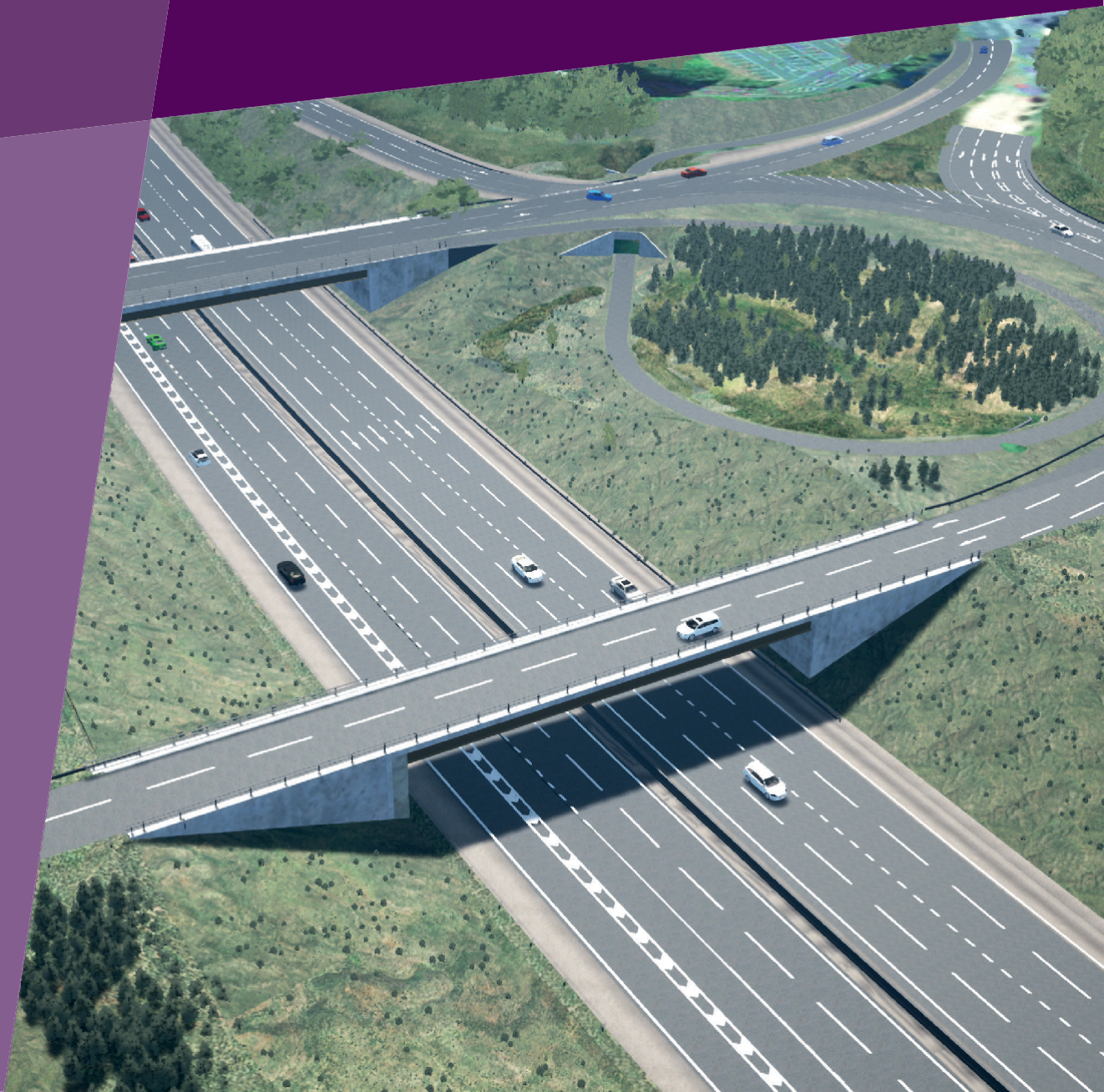
M3

junction 9 improvement scheme

Preliminary Environmental Information Report

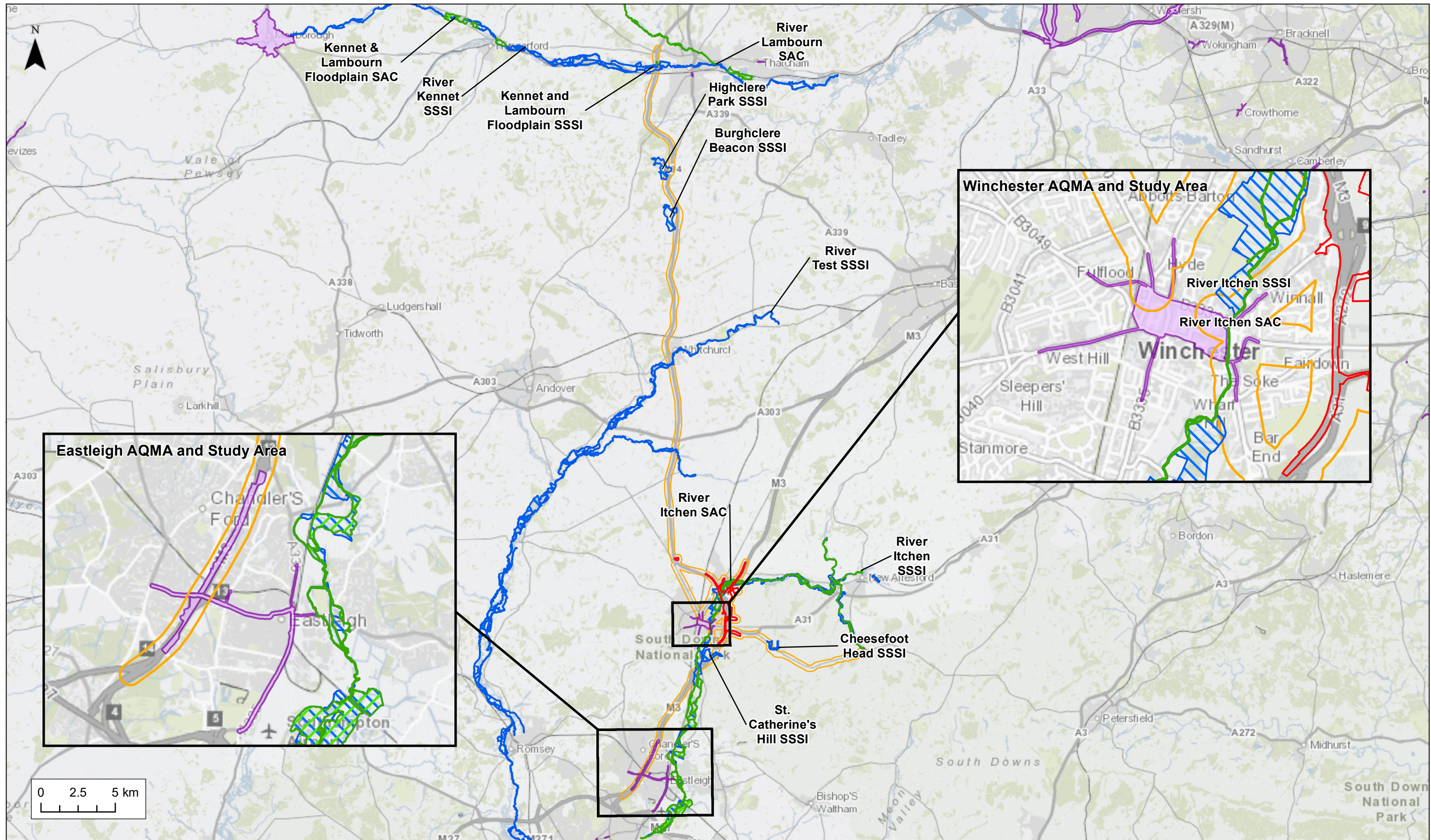
Appendix 5.1 – Air Quality Figures (Part 1 of 6)

May 2021



Appendix 5.1 Air Quality Figures

Figure 5.1	Current Air Quality Study Area and Relevant Designated Sites
Figure 5.2	Air Quality Constraints (Local Monitoring and Air Quality Monitoring Areas)
Figure 5.3	Dust Buffers from Indicative Application Boundary
Figure 5.4	Pollution Climate Mapping (PCM) Road Links
Figure 5.5	Defra Background Total Nitrogen Dioxide (NO ₂) µg/m ³ in 2020
Figure 5.6	Defra Background Total PM ₁₀ µg/m ³ in 2020
Figure 5.7	Defra Background Total PM _{2.5} µg/m ³ in 2020
Figure 5.8	Defra Background Total Nitrogen Dioxide (NO ₂) µg/m ³ in 2026
Figure 5.9	Defra Background Total PM ₁₀ µg/m ³ in 2026
Figure 5.10	Defra Background Total PM _{2.5} µg/m ³ in 2026



KEY

- Indicative Application Boundary
- Roads exceeding DMRB traffic scoping criteria 200 m buffer
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation (SAC)
- Air Quality Management Area

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Figure Status **FOR INFORMATION**

Project Title **M3 JUNCTION 9 IMPROVEMENT**



Figure Title **CURRENT AIR QUALITY STUDY AREA AND RELEVANT DESIGNATED SITES**



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	Original Size: A3	Date: 13/01/2021	Date: 13/01/2021	Date: 13/01/2021	Date: 13/01/2021
FIGURE 5.1					Project Ref No: 48176
					Revision B

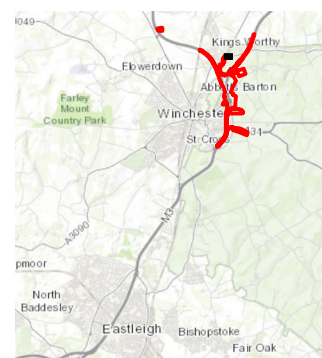


KEY

- Indicative Application Boundary
- 1 km buffer from Current Air Quality Study Area
- Air Quality Management Area

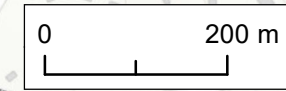
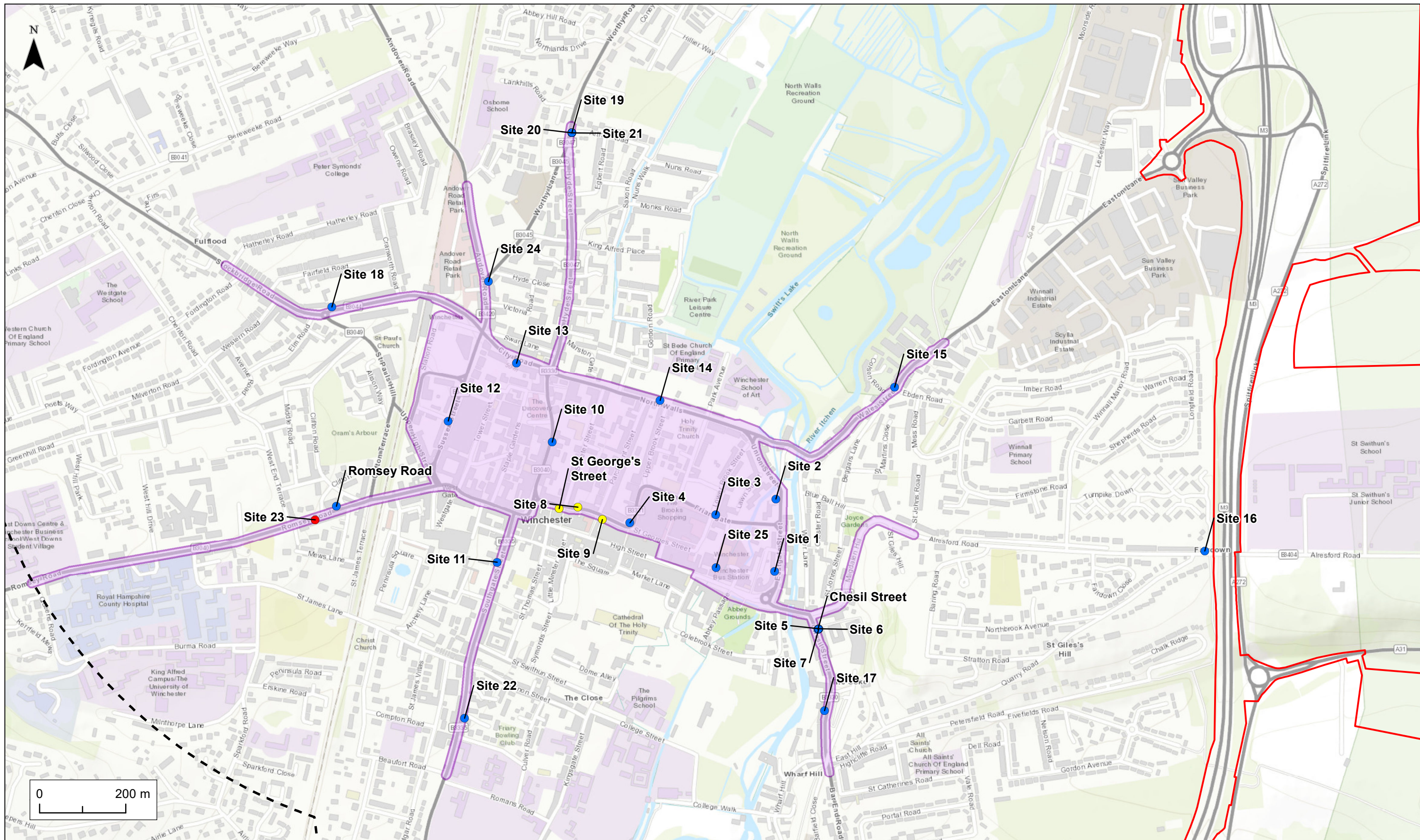
Local Authority Monitoring Locations

- 2019 Mean Nitrogen Dioxide (NO₂) µg/m³**
- Up to 36
 - 36 - 40
 - 40+



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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Figure Status		FOR INFORMATION			Project Title		M3 JUNCTION 9 IMPROVEMENT		
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Client		Scale: 1:600	Designed: IB	Drawn: IB	Checked: DF	Approved: PB	FIGURE 5.2 Sheet 1 of 4 Project Ref No: 48176 Revision C		
		Original Size: A3	Date: 14/01/2021	Date: 14/01/2021	Date: 14/01/2021	Date: 14/01/2021			



KEY

- Indicative Application Boundary
- 1 km buffer from Current Air Quality Study Area
- Air Quality Management Area

Local Authority Monitoring Locations 2019 Mean Nitrogen Dioxide (NO₂) µg/m³

- Up to 36
- 36 - 40
- 40+

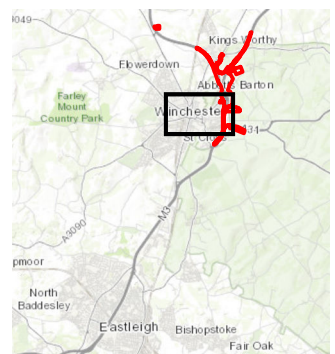
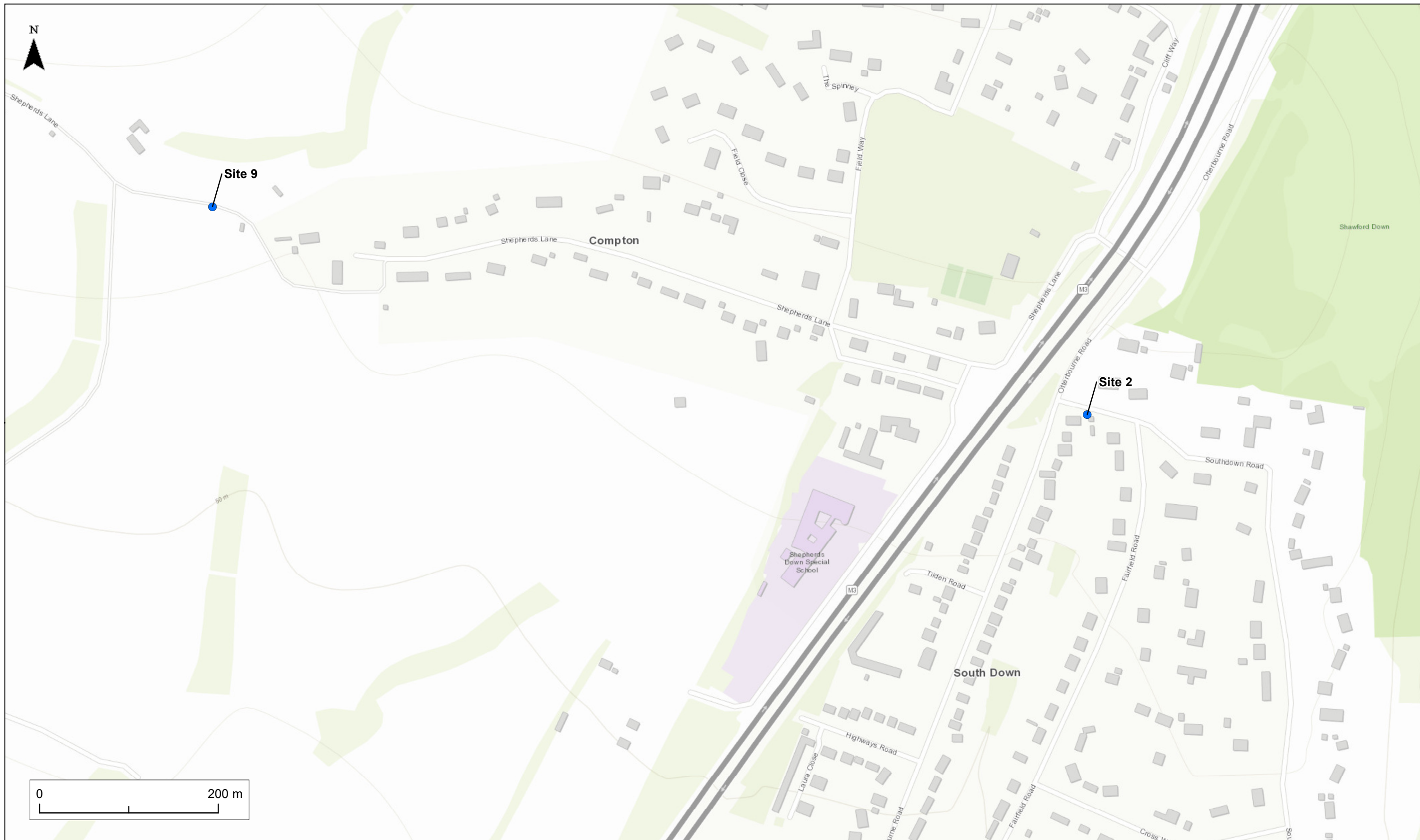


Figure Status **FOR INFORMATION**

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Client **highways england**

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Figure Title AIR QUALITY CONSTRAINTS (LOCAL MONITORING AND AIR QUALITY MANAGEMENT AREAS)				
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FIGURE 5.2 Sheet 2 of 4				Project Ref No: 48176 Revision C



KEY

- Indicative Application Boundary
- 1 km buffer from Current Air Quality Study Area
- Air Quality Management Area

Local Authority Monitoring Locations

2019 Mean Nitrogen Dioxide (NO₂) µg/m³

- Up to 36
- 36 - 40
- 40+

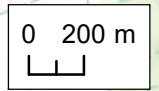
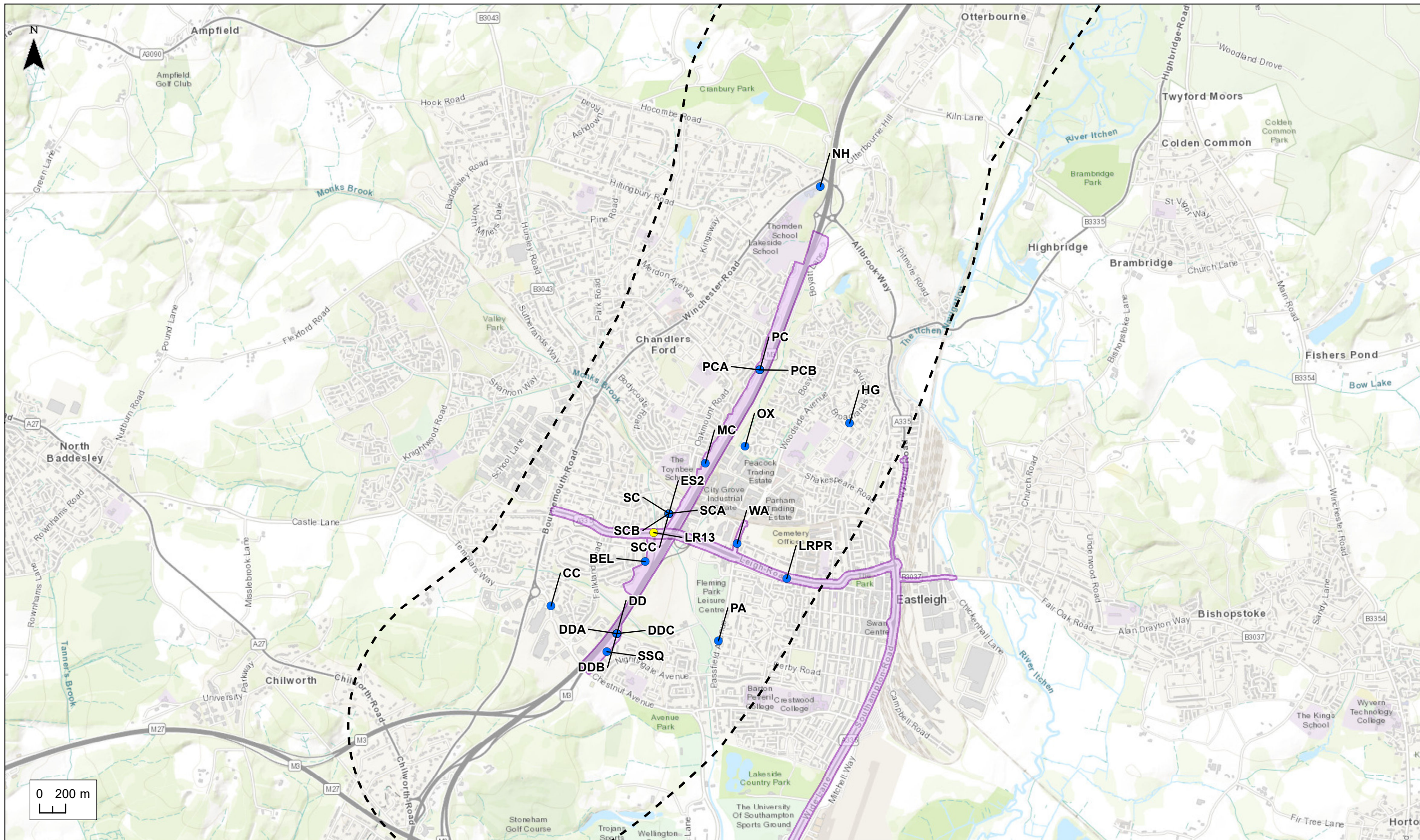


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FIGURE 5.2 Sheet 3 of 4				Project Ref No: 48176 Revision C



KEY

- Indicative Application Boundary
- 1 km buffer from Current Air Quality Study Area
- Air Quality Management Area

Local Authority Monitoring Locations

2019 Mean Nitrogen Dioxide (NO₂) µg/m³

- Up to 36
- 36 - 40
- 40+

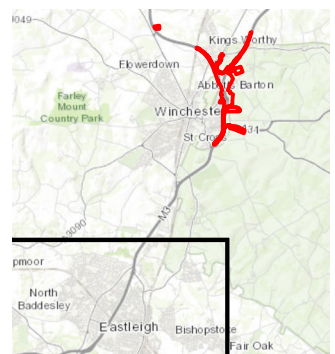


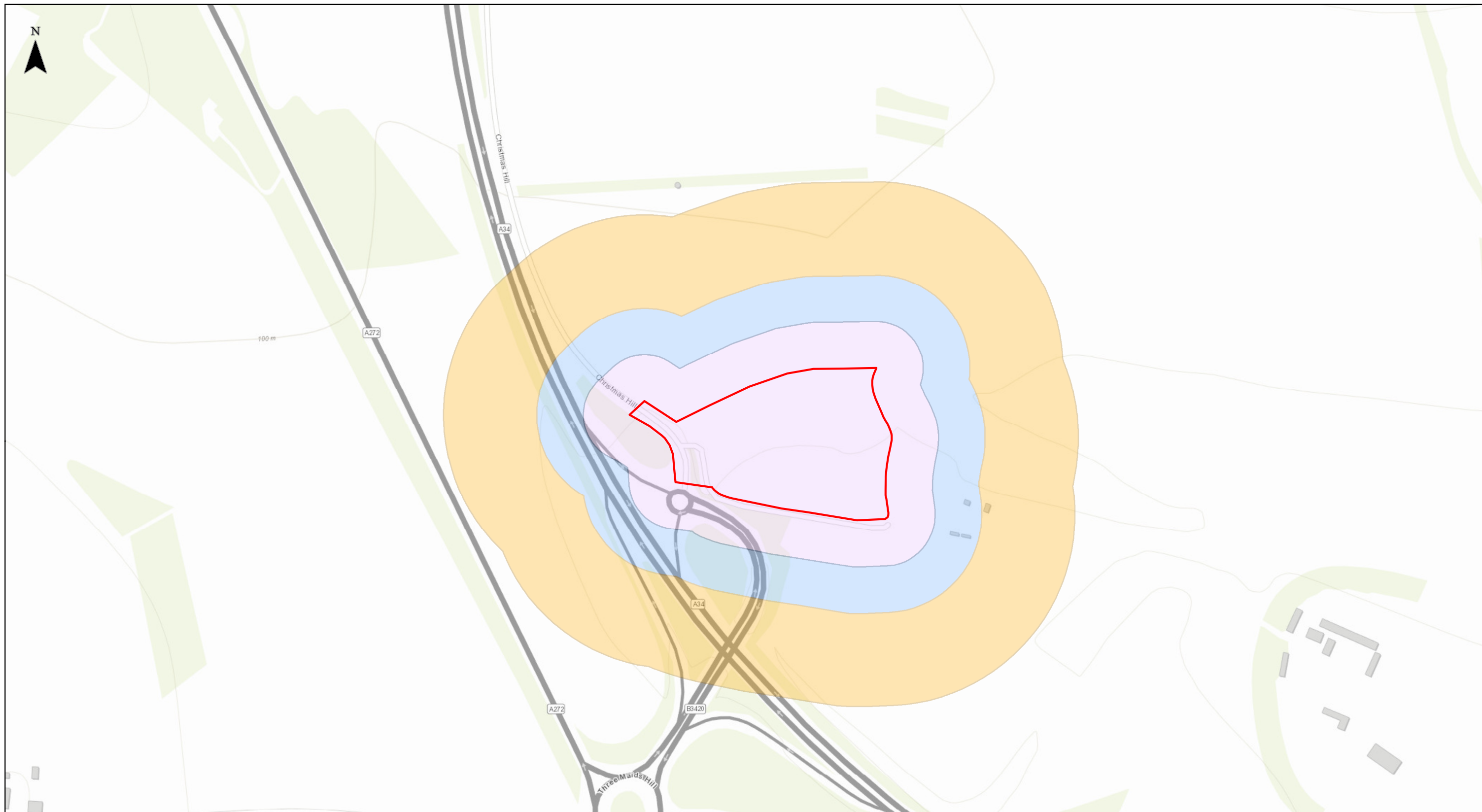
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FIGURE 5.2 Sheet 4 of 4				Project Ref No: 48176 Revision C

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community. Contains public sector information licensed under the Open Government Licence v3.0.



- KEY**
- Indicative Application Boundary
 - Dust Buffers**
 - 50m
 - 100m
 - 200m

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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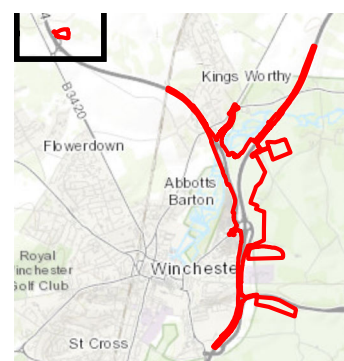
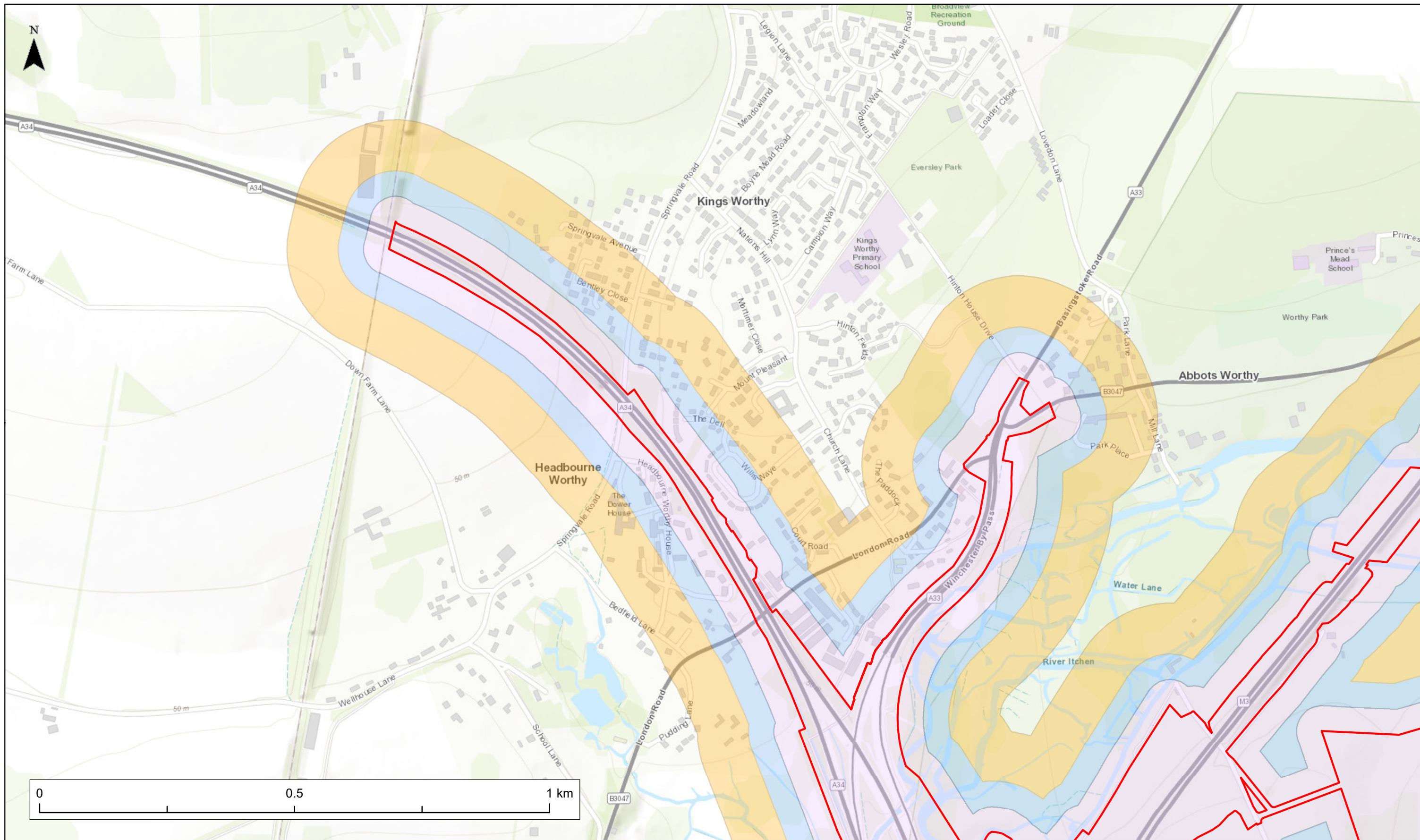


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Original Size: A3	Date: 10/12/2020	Date: 10/12/2020	Date: 10/12/2020	Date: 10/12/2020	
FIGURE 5.3 Sheet 1 of 5					Project Ref No: 48176 Revision A



- KEY**
- Indicative Application Boundary
 - Dust Buffers**
 - 50m
 - 100m
 - 200m

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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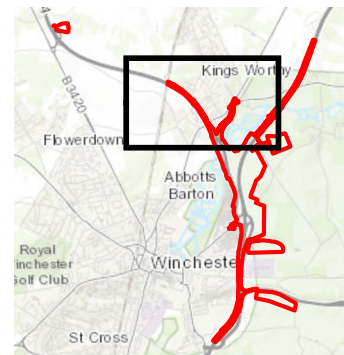
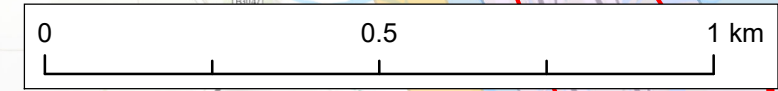
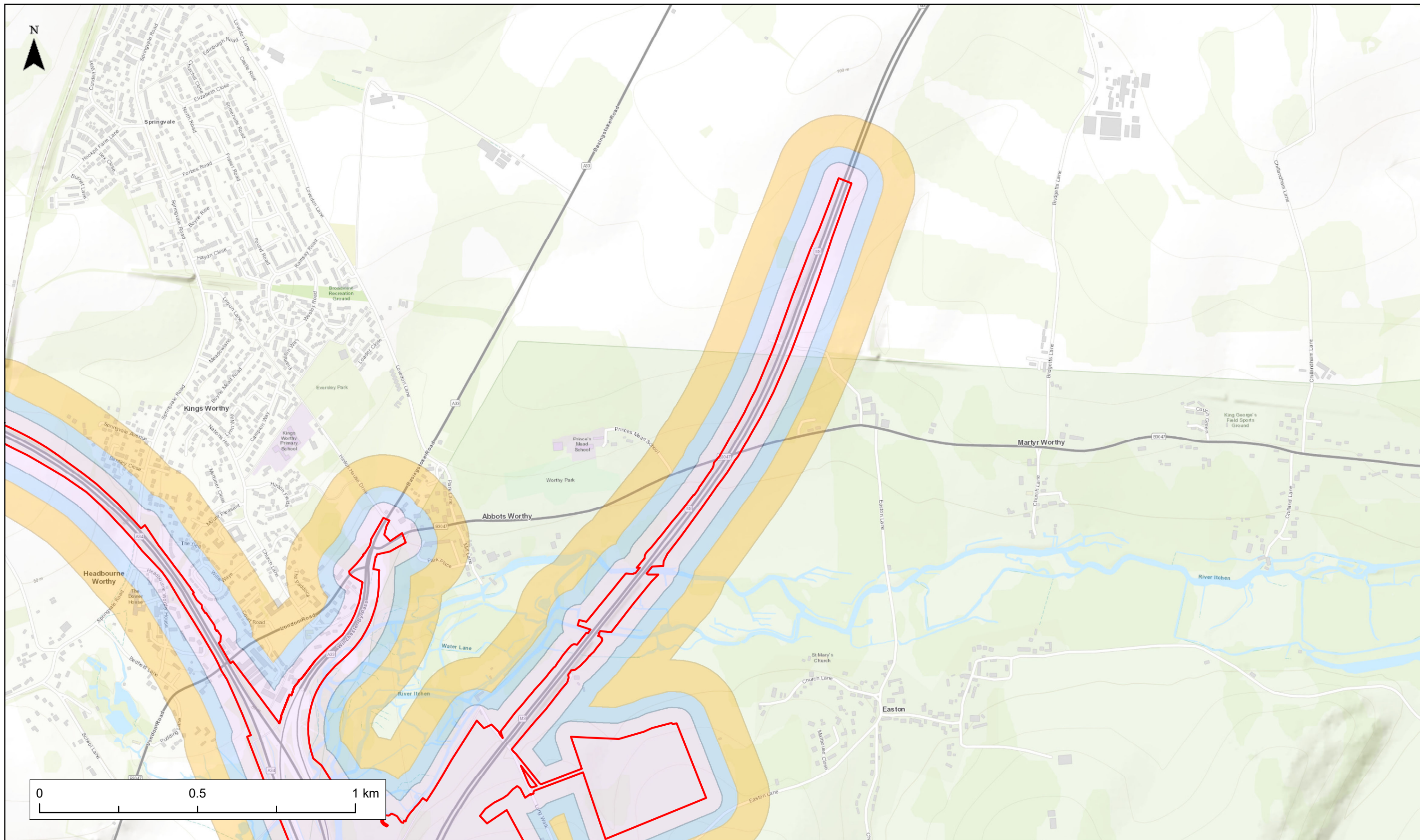


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FIGURE 5.3 Sheet 2 of 5										Project Ref No: 48176 Revision A				



- KEY**
- Indicative Application Boundary
 - Dust Buffers**
 - 50m
 - 100m
 - 200m

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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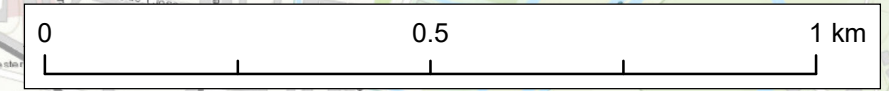
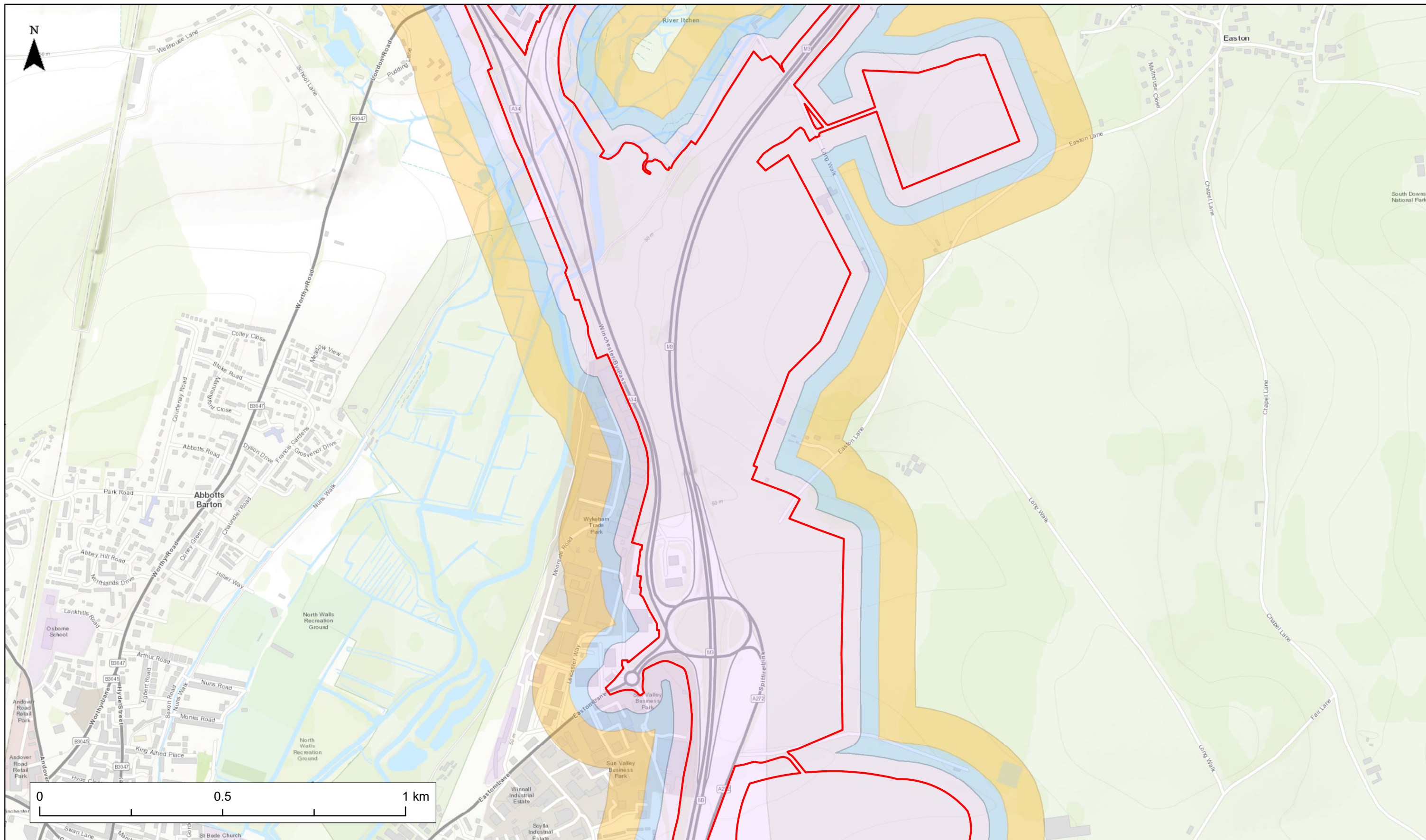


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Original Size: A3	Date: 10/12/2020	Date: 10/12/2020	Date: 10/12/2020	Date: 10/12/2020
FIGURE 5.3 Sheet 3 of 5				Project Ref No: 48176 Revision A



- KEY**
- Indicative Application Boundary
 - Dust Buffers**
 - 50m
 - 100m
 - 200m

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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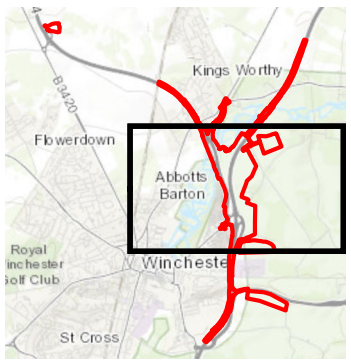
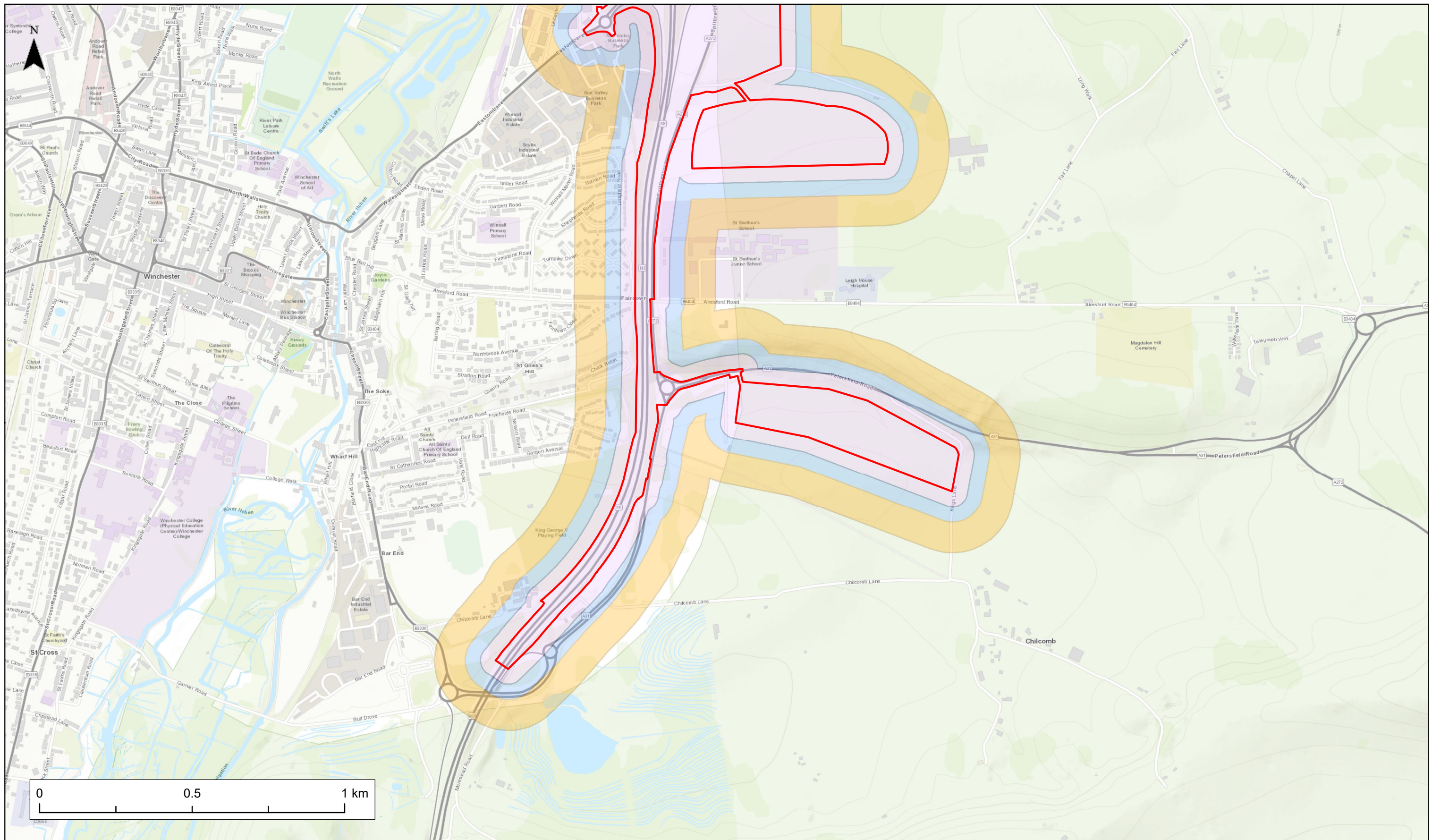


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FIGURE 5.3 Sheet 4 of 5				Project Ref No: 48176 Revision A



- KEY**
- Indicative Application Boundary
 - Dust Buffers**
 - 50m
 - 100m
 - 200m

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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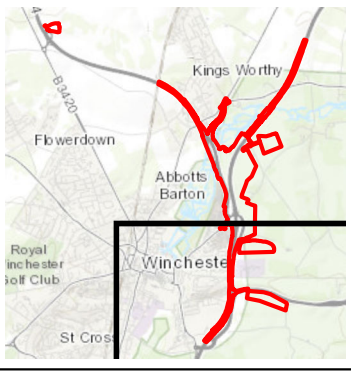


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FIGURE 5.3 Sheet 5 of 5					Project Ref No: 48176 Revision A