South Oxfordshire District Council

Listening Learning Leading

Vale of White Horse District Council

South Oxfordshire and Vale of White Horse Joint Local Plan 2041

EXAMINATION LIBRARY DOCUMENT

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Joint Local Plan

Policies Map - additional mapping

Pre-submission publication version

(Regulation 19)

South Oxfordshire and Vale of White Horse District Councils

October 2024

The main Proposed Policies Maps for the Joint Local Plan publication period are available in large format hard copies at our deposit locations. This map booklet contain other layers that, if we had shown on the same Policies Maps, would have made the larger maps impossible to read. We have therefore provided these maps in a hard copy booklet so you can see important information that relates to our policies. Before each map, we have noted which policy the mapping relates to. You can access the digital version of our policies map online, which contains all our mapping from the Proposed Policies Maps and this map booklet and allows you to view as much or as little information as you want. We encourage you to use the online tool at: https://experience.arcgis.com/experience/83d01e42542c4ee8ae383747a1c3e57b

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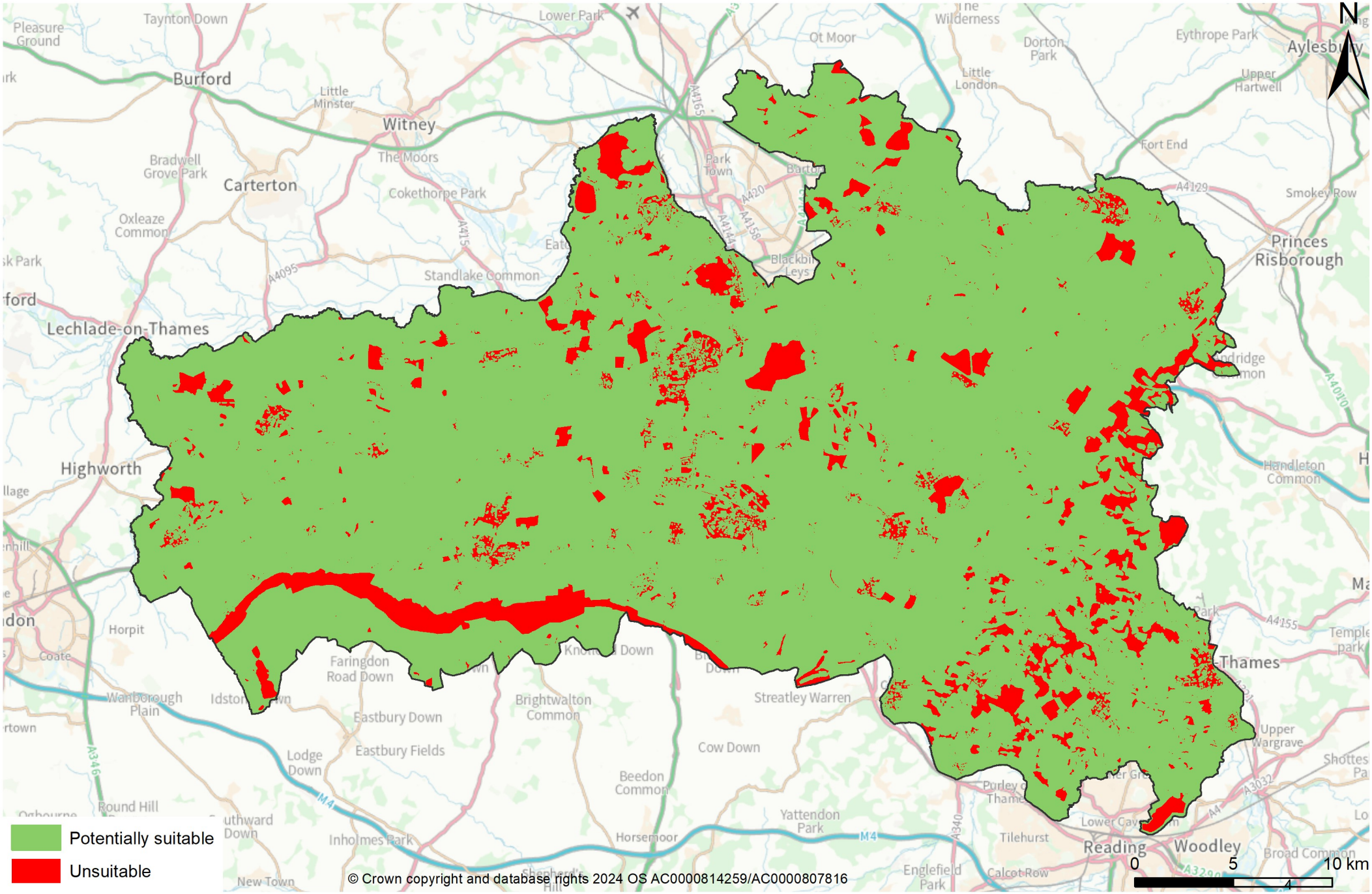
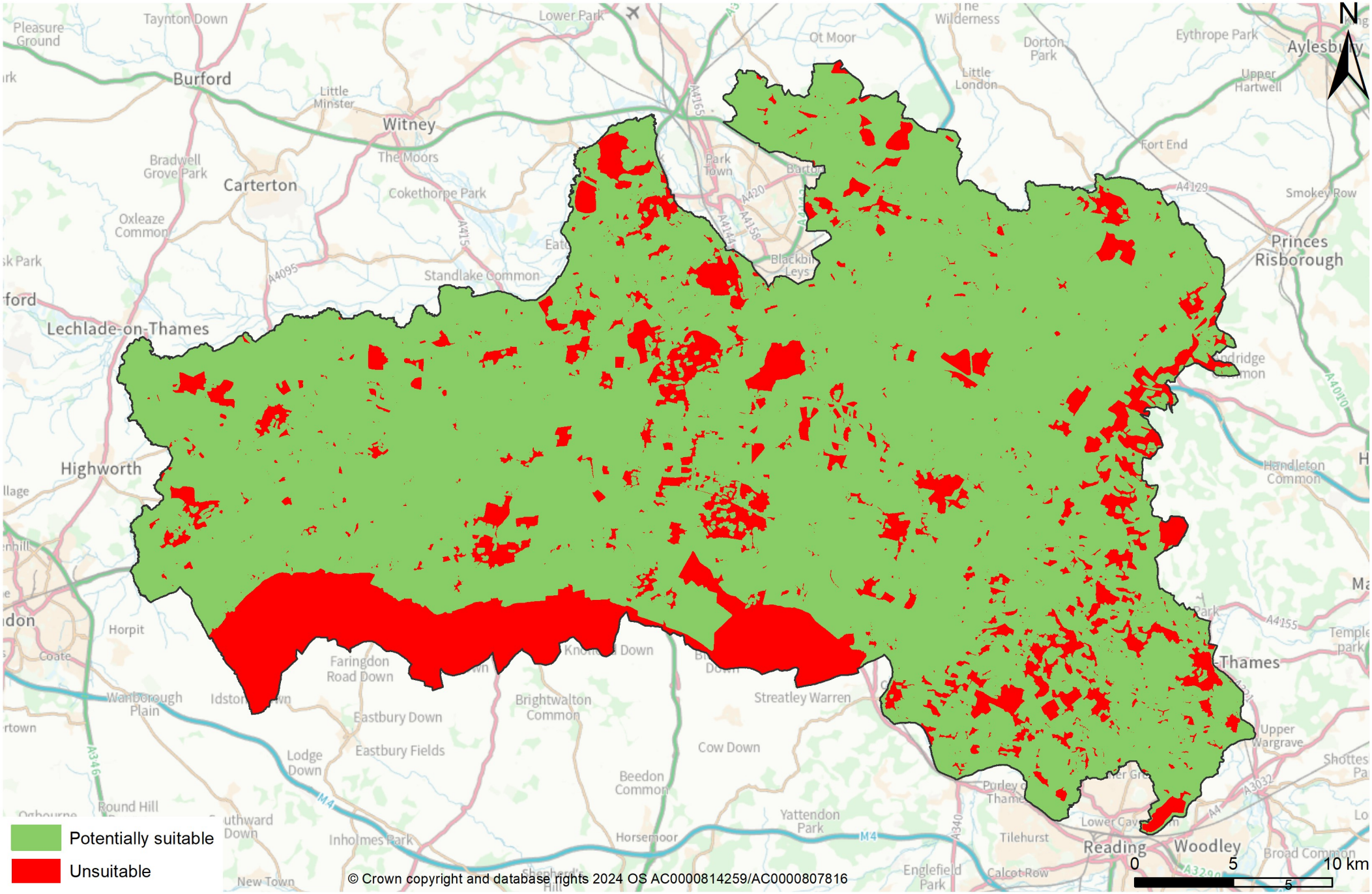
Maps relating to Policy CE5: Renewable energy

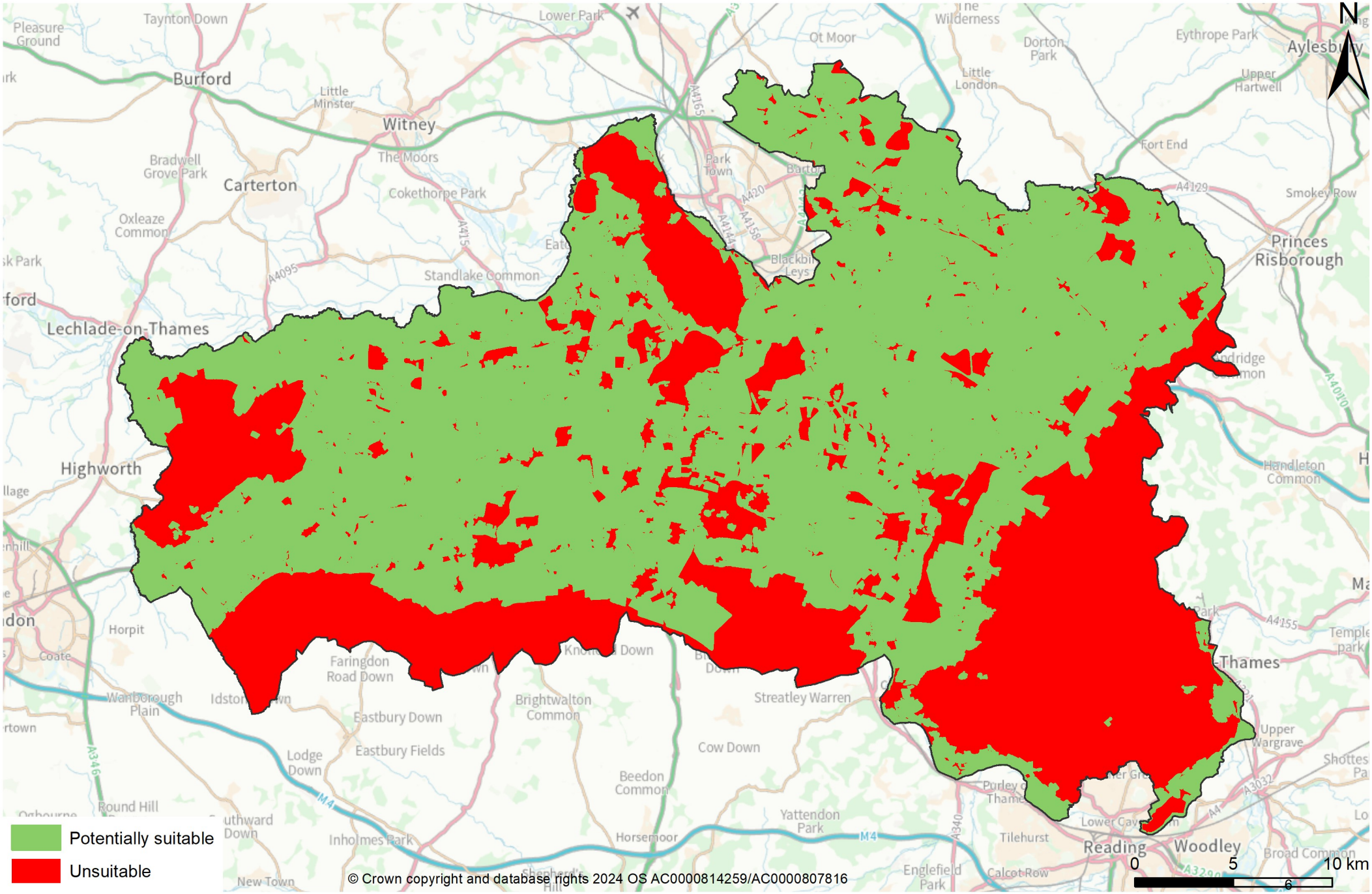
Ground-mounted solar PV (PV1 - <1 Ha, <1 MW)



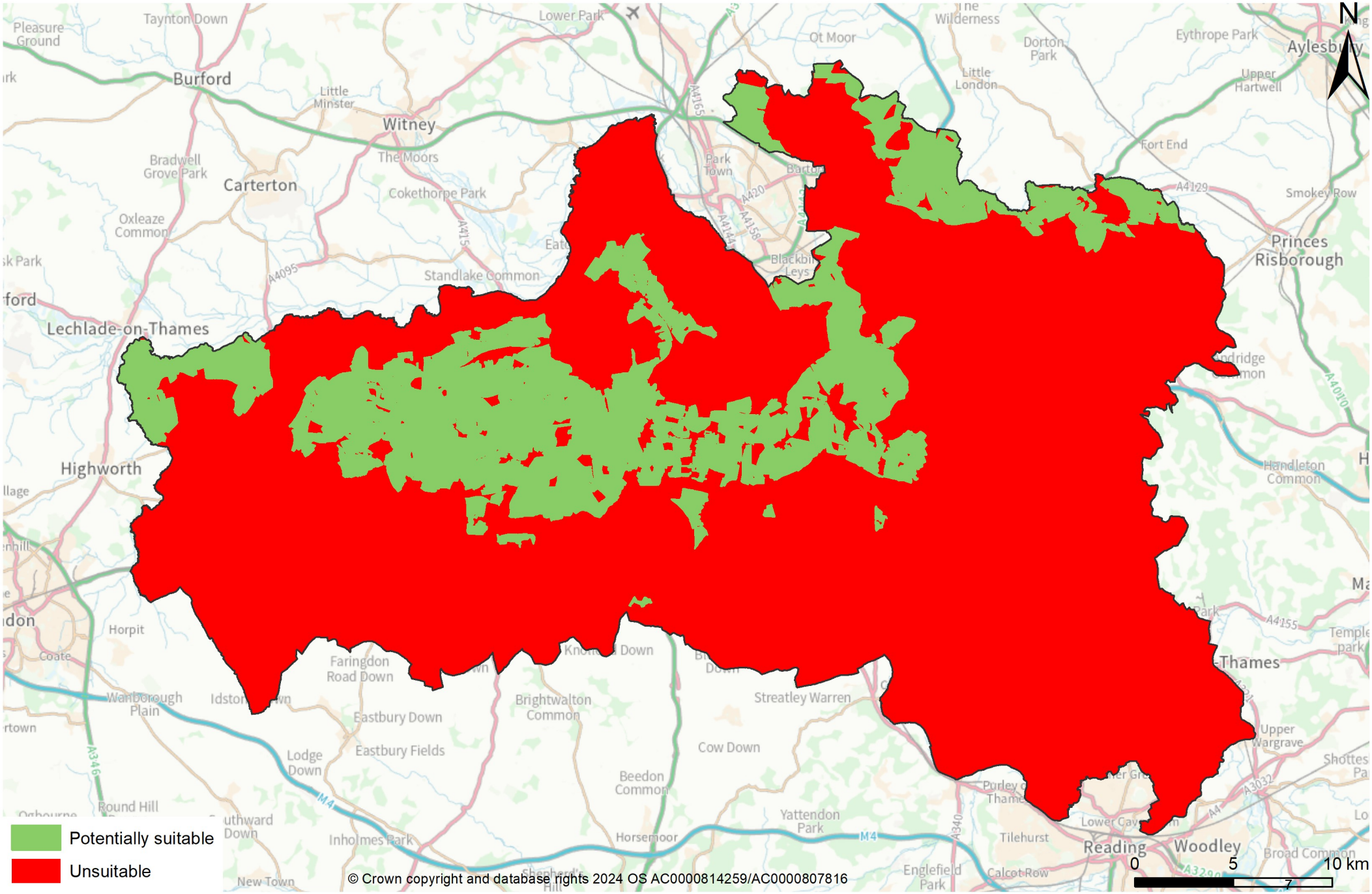
Ground-mounted solar PV (PV2 - 1-5 Ha, 1-4 MW)



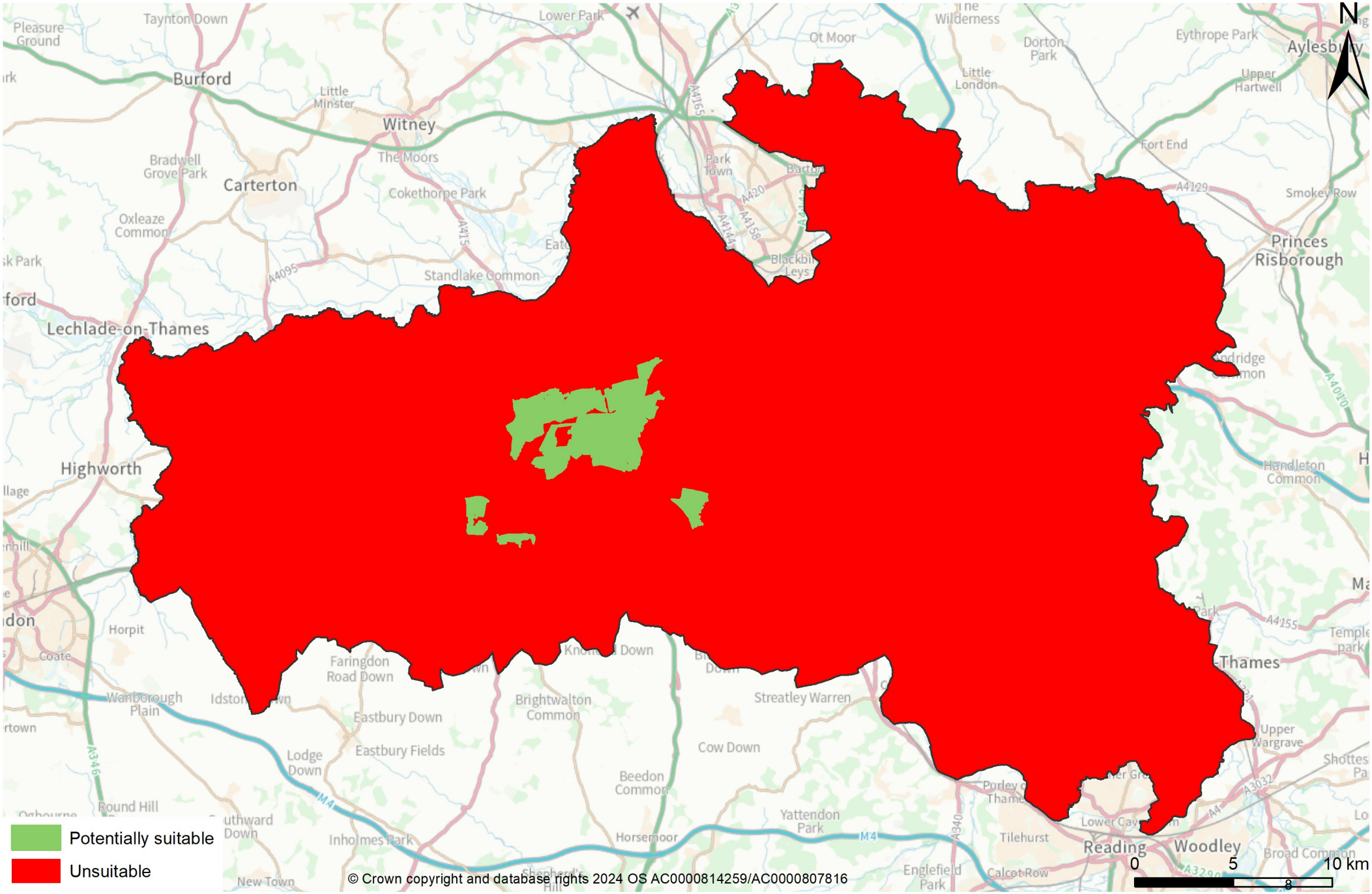
Ground-mounted solar PV (PV3 – 5-20 Ha, 5-15 MW)



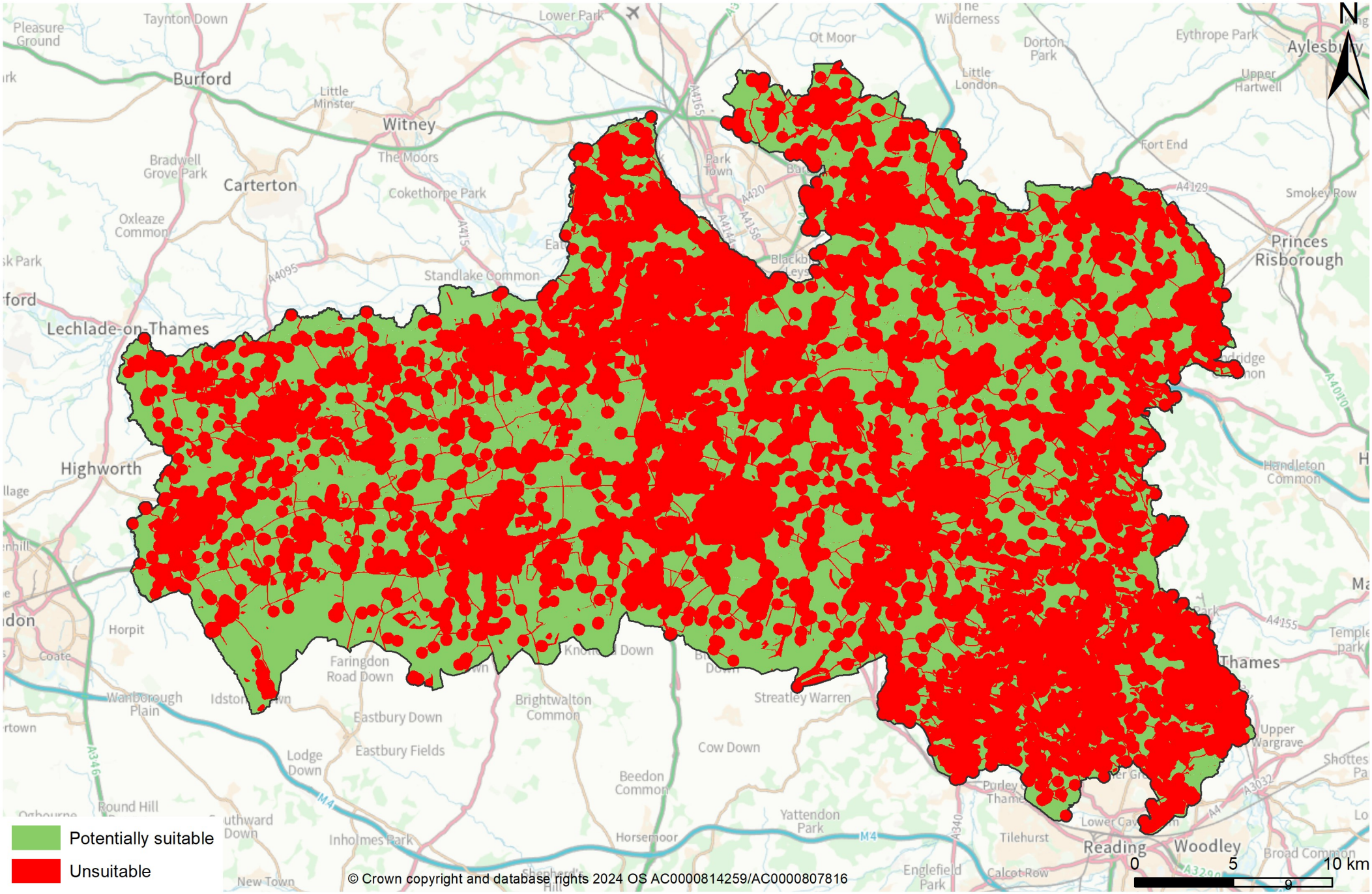
Ground-mounted solar PV (PV4 – 20-50 Ha, 16-40 MW)



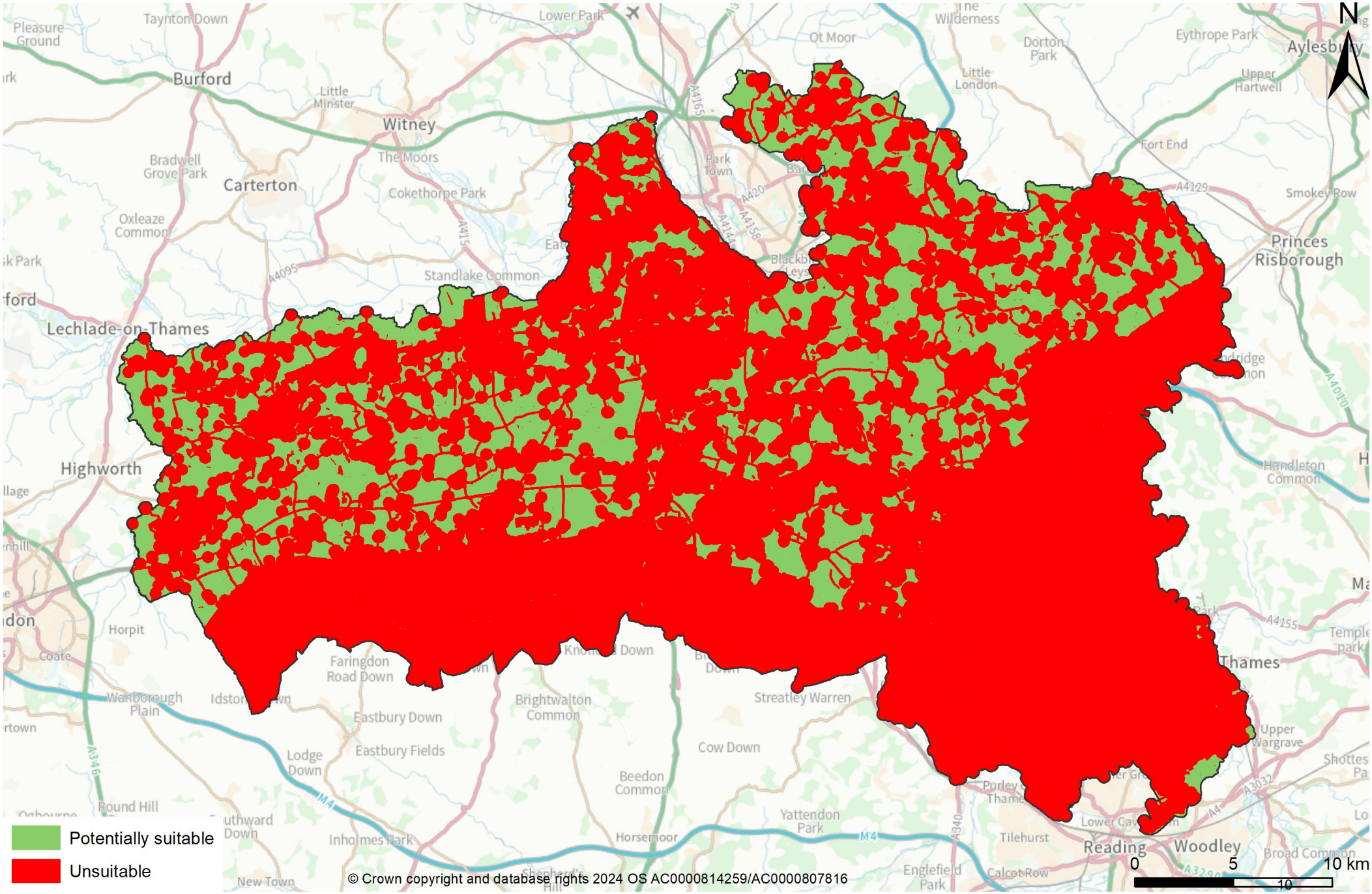
Ground-mounted solar PV (PV5 – 50-120 Ha, 41-100 MW)



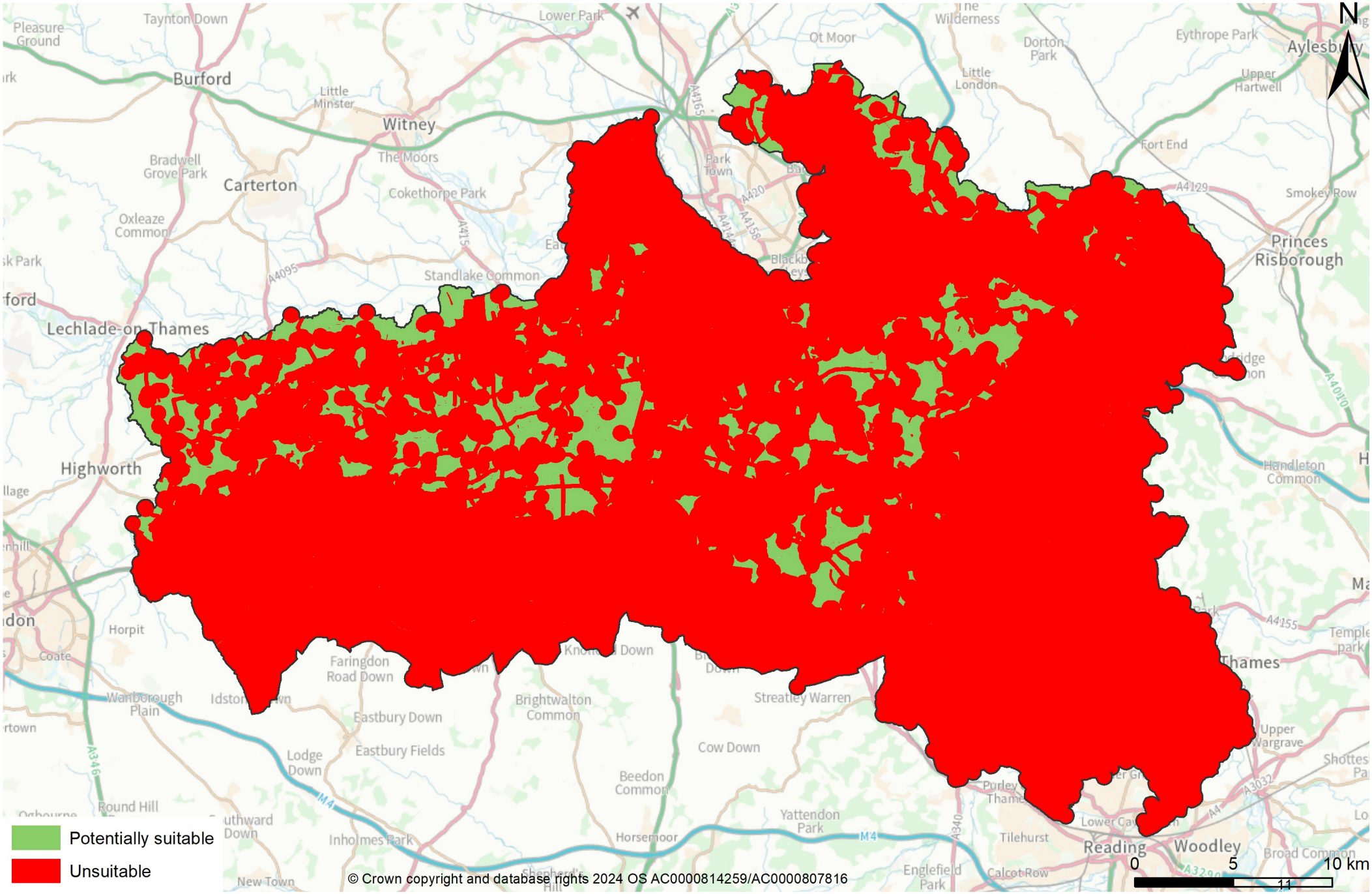
Onshore wind (OW1 – <25 metres turbine tip height, <250 kW)



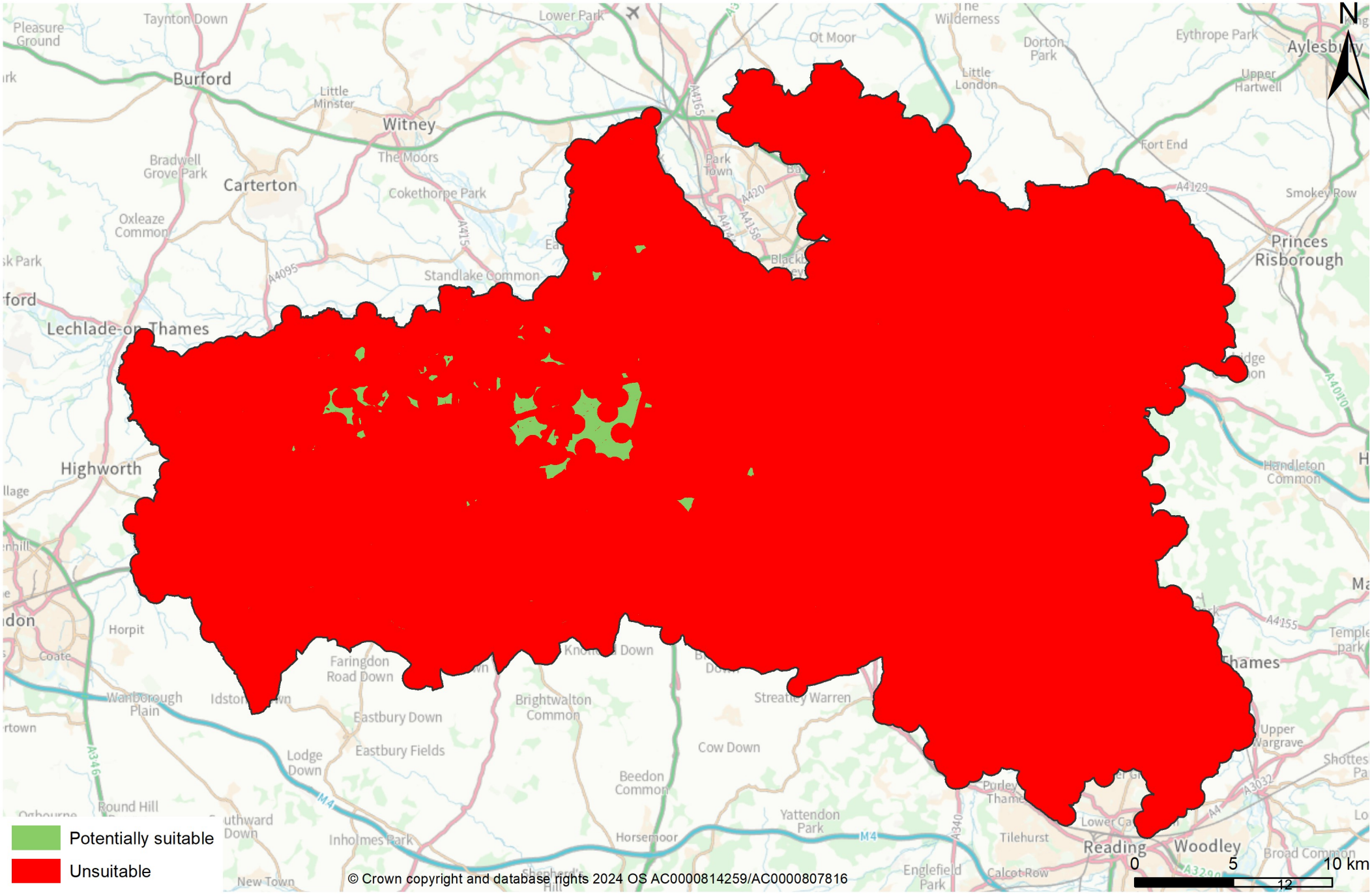
Onshore wind (OW2 – 25-60 metres turbine tip height, <500 kW)



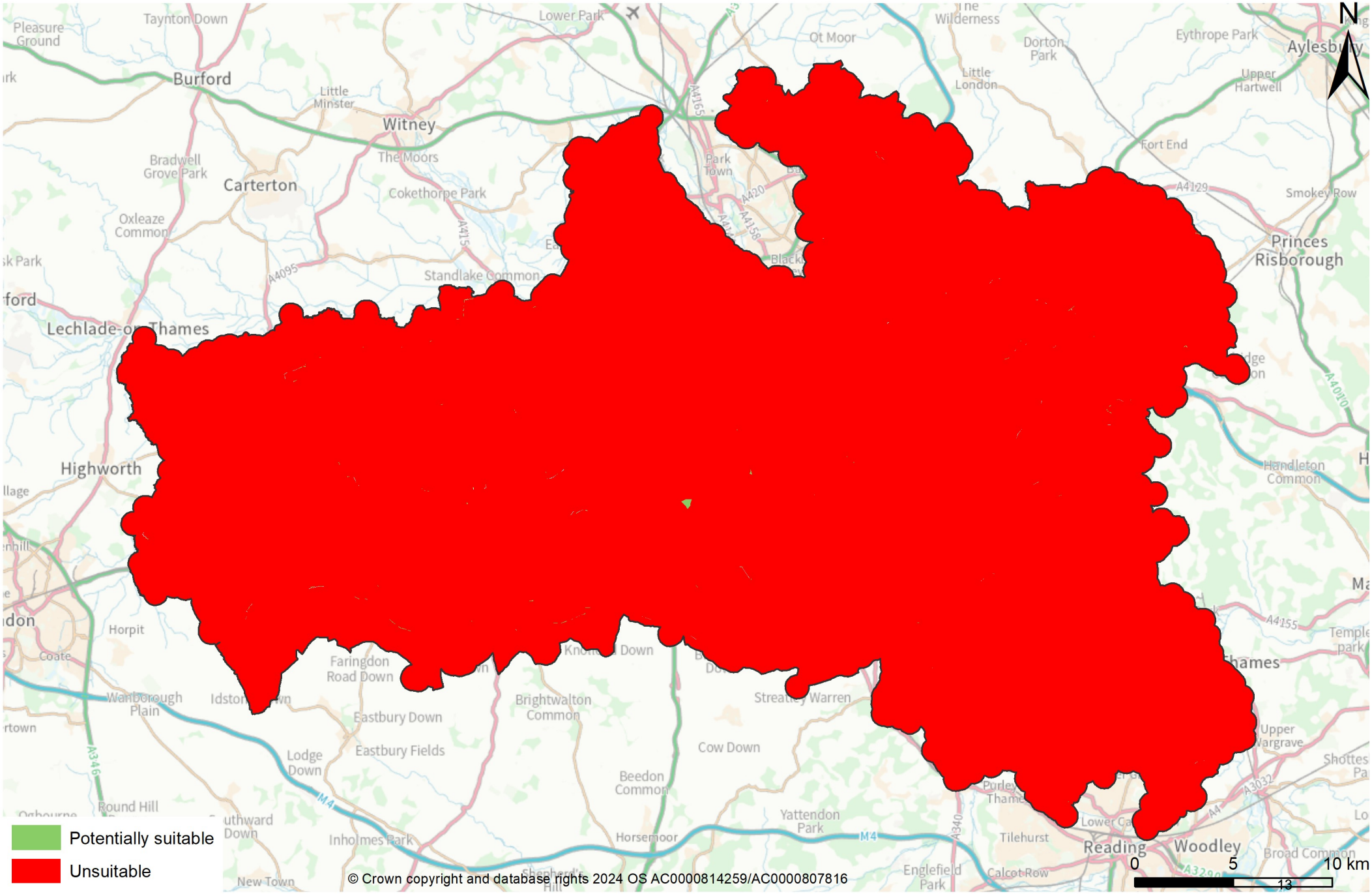
Onshore wind (OW3 – 60-100 metres turbine tip height, 500 kW-1 MW)



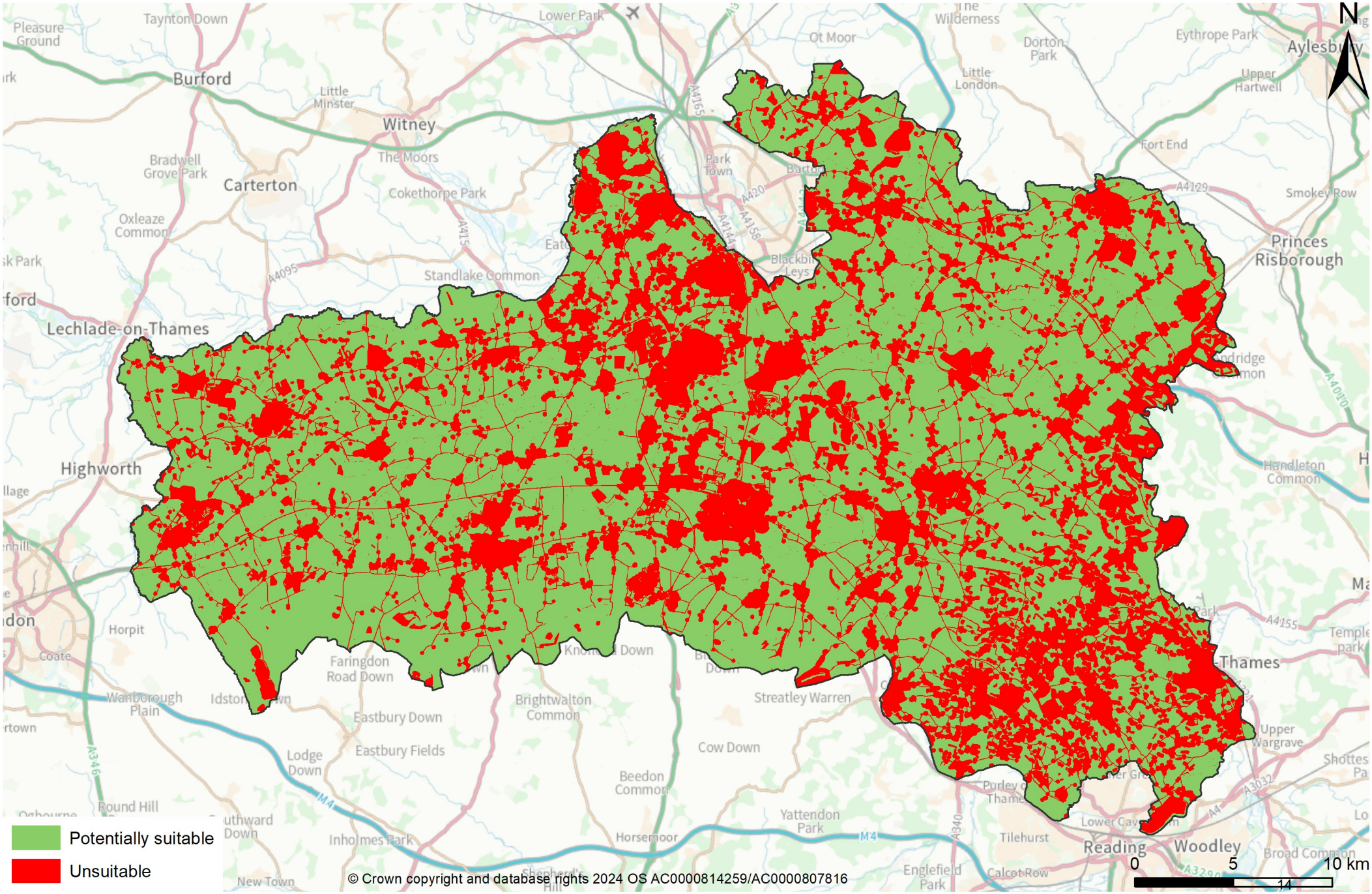
Onshore wind (OW4 – 100-150 metres turbine tip height 1-2.5 MW)



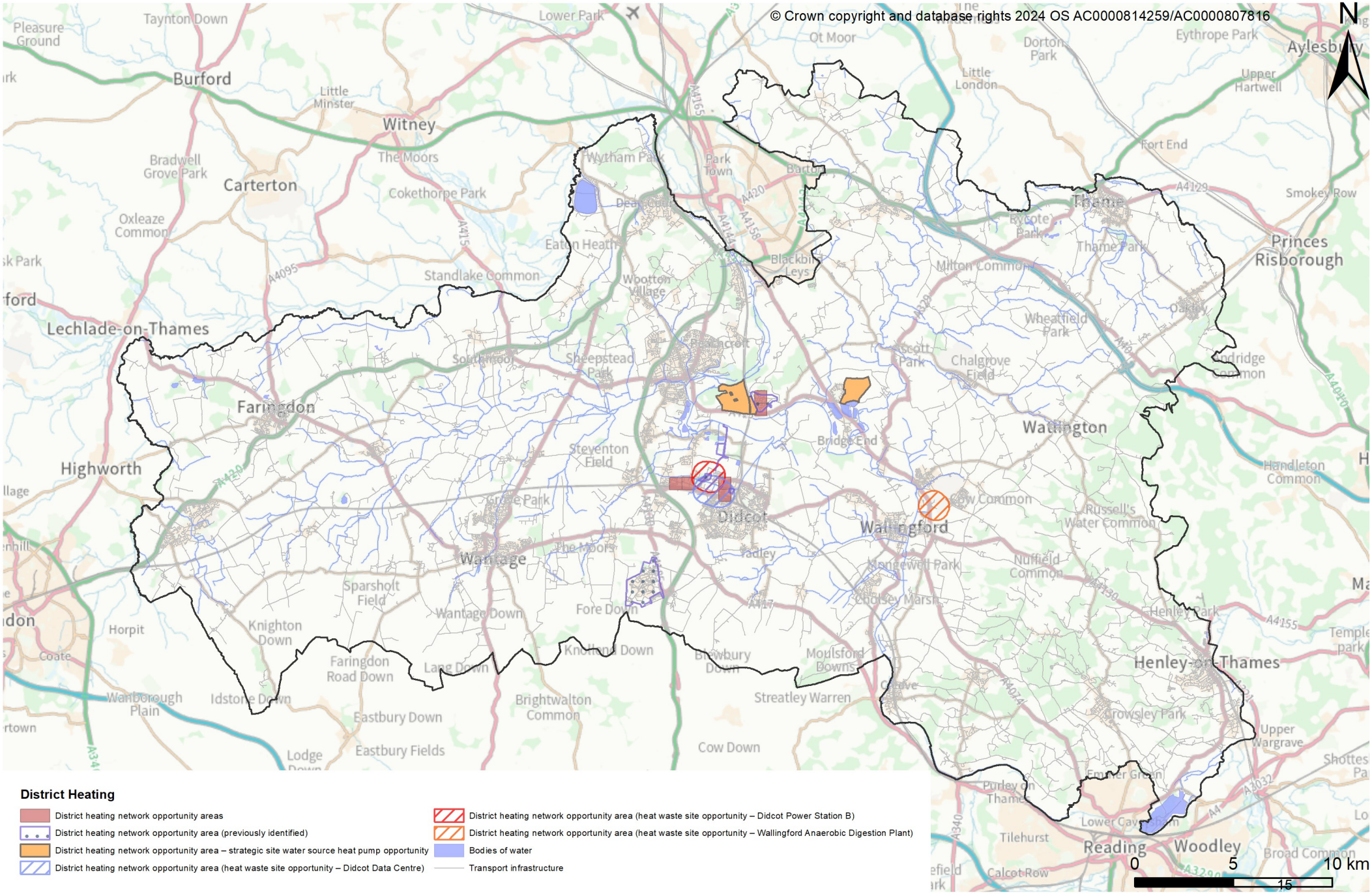
Onshore wind (OW5 – 150-220 metres turbine tip height, >2.5 MW)



Battery energy storage systems (BESS)



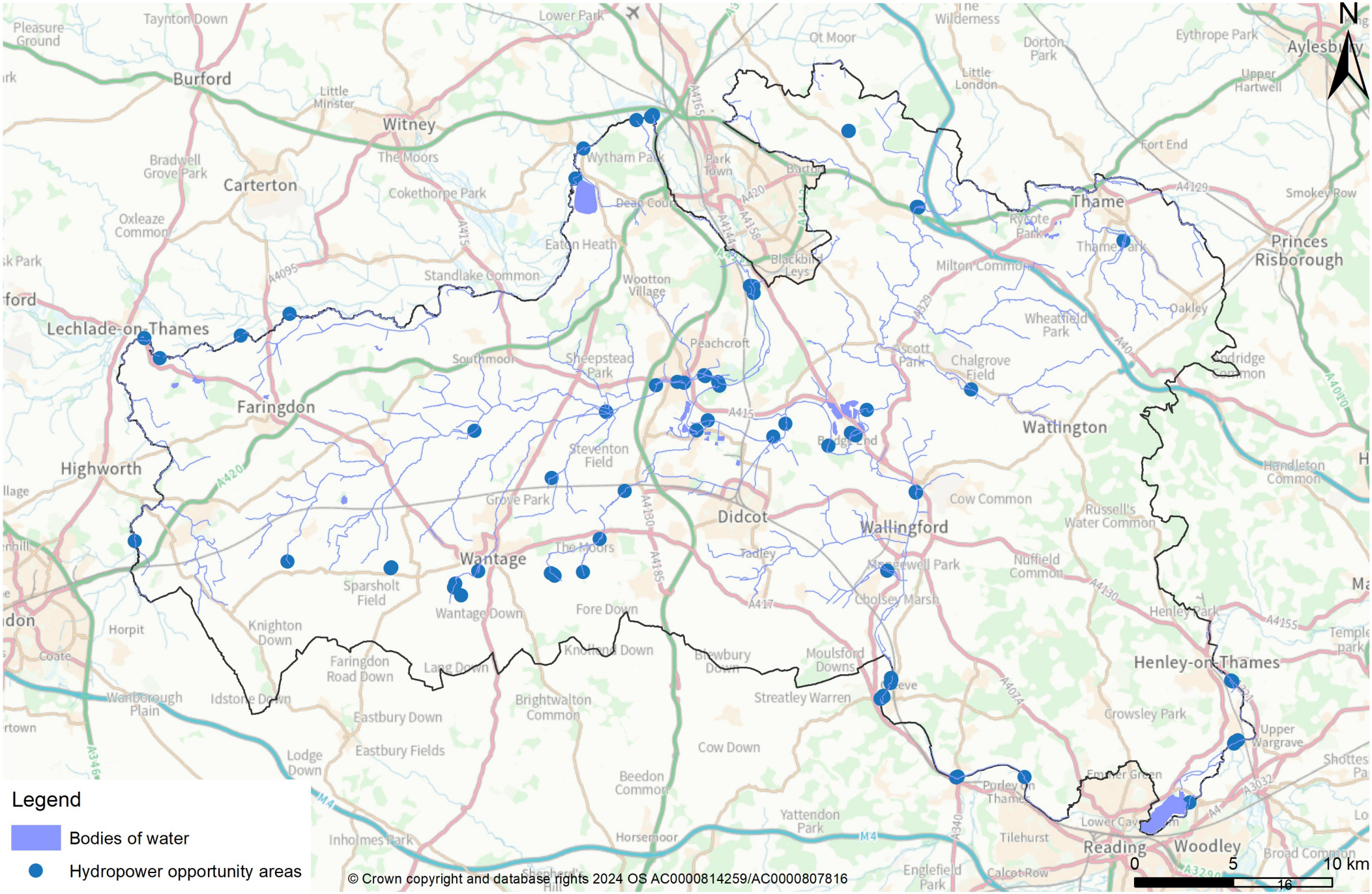
District heating opportunity areas



District Heating

- District heating network opportunity areas
- District heating network opportunity area (previously identified)
- District heating network opportunity area – strategic site water source heat pump opportunity
- District heating network opportunity area (heat waste site opportunity – Didcot Data Centre)
- District heating network opportunity area (heat waste site opportunity – Didcot Power Station B)
- District heating network opportunity area (heat waste site opportunity – Wallingford Anaerobic Digestion Plant)
- Bodies of water
- Transport infrastructure

Hydropower opportunity areas



Maps relating to Policy CE6: Flood Risk

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Policy CE6 - Flood Risk

Flood Risk Cumulative Impact

District Boundaries

- South Oxfordshire
- Vale of White Horse

Sensitivity to the cumulative impacts of development

- High
- Medium
- Low

Map scale 1:320,000 @A3

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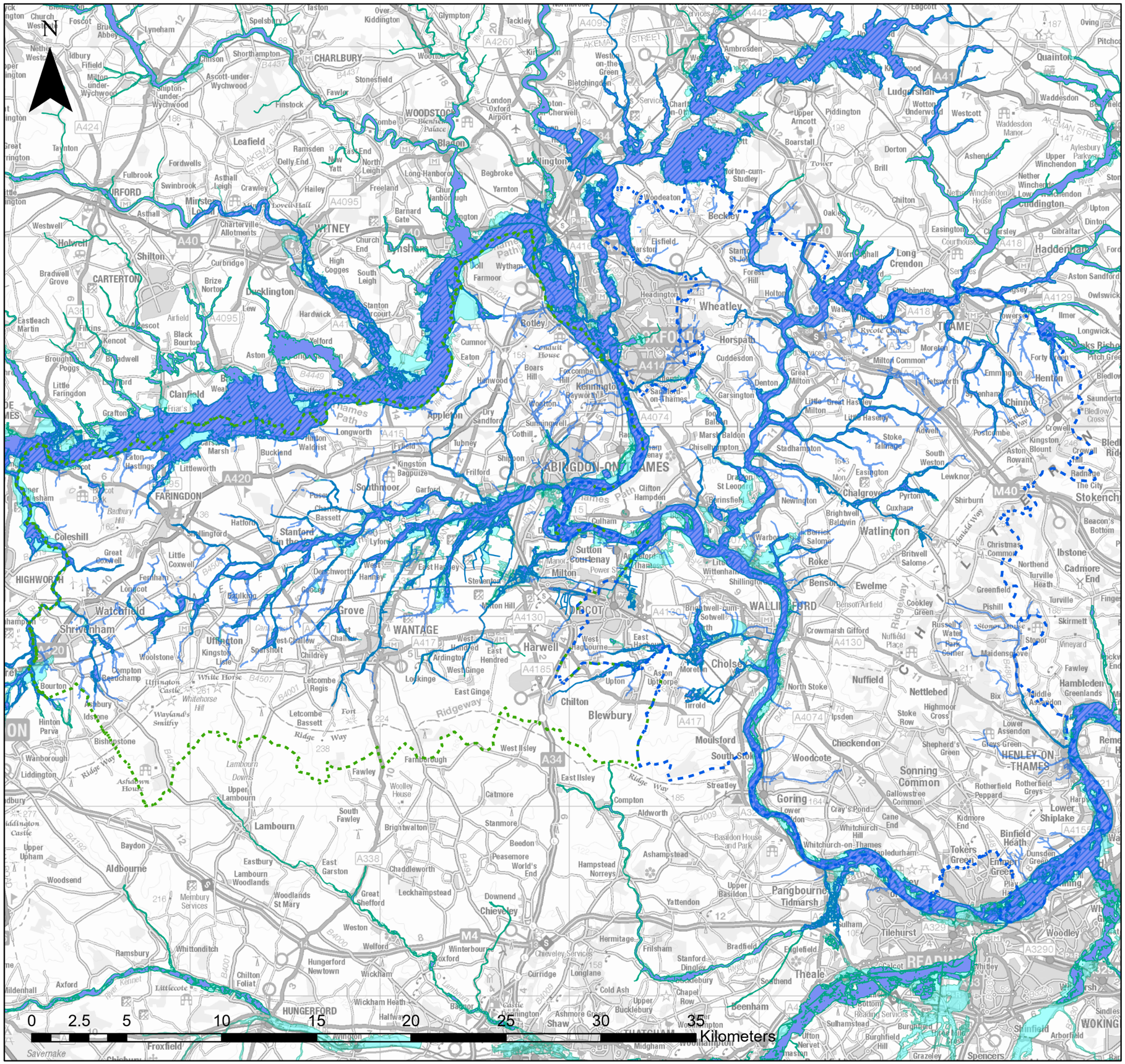

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Policy CE6 - Flood Risk

Flood zones 2, 3 and 3b

District Boundaries

- South Oxfordshire
- Vale of White Horse

- Flood zone 3b
- Flood zone 3
- Flood zone 2

Map scale 1:200,000 @A3

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Policy CE6 - Flood Risk

Future Functional Floodplain (future flood zone 3b with climate change)

District Boundaries

- South Oxfordshire
- Vale of White Horse

Future Functional Floodplain

Map scale 1:200,000 @A3

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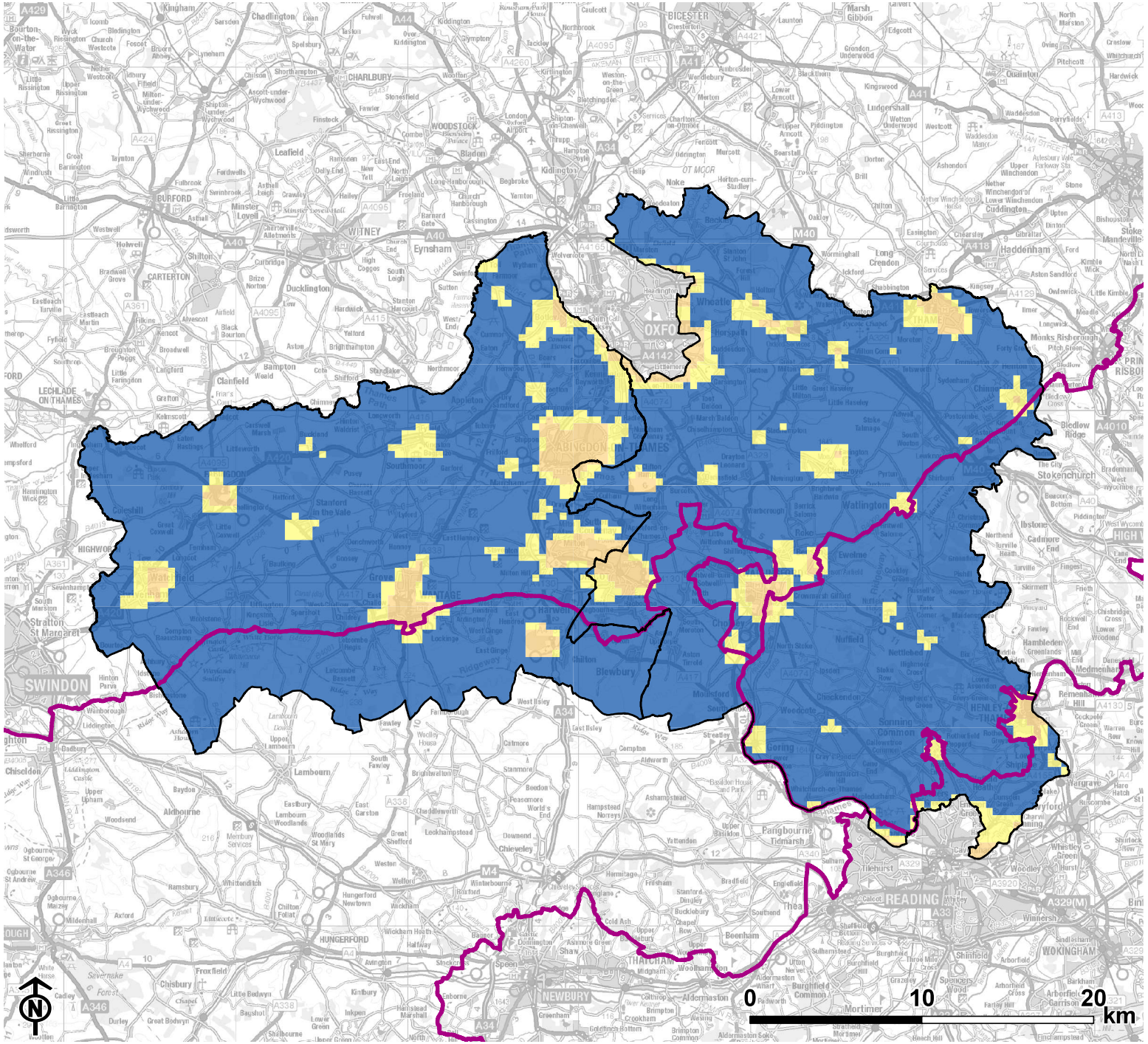
Maps relating to Policy CE11: Light pollution and dark skies

Figure 6.1: Environmental Zones



Map scale 1:325,000 @ A4

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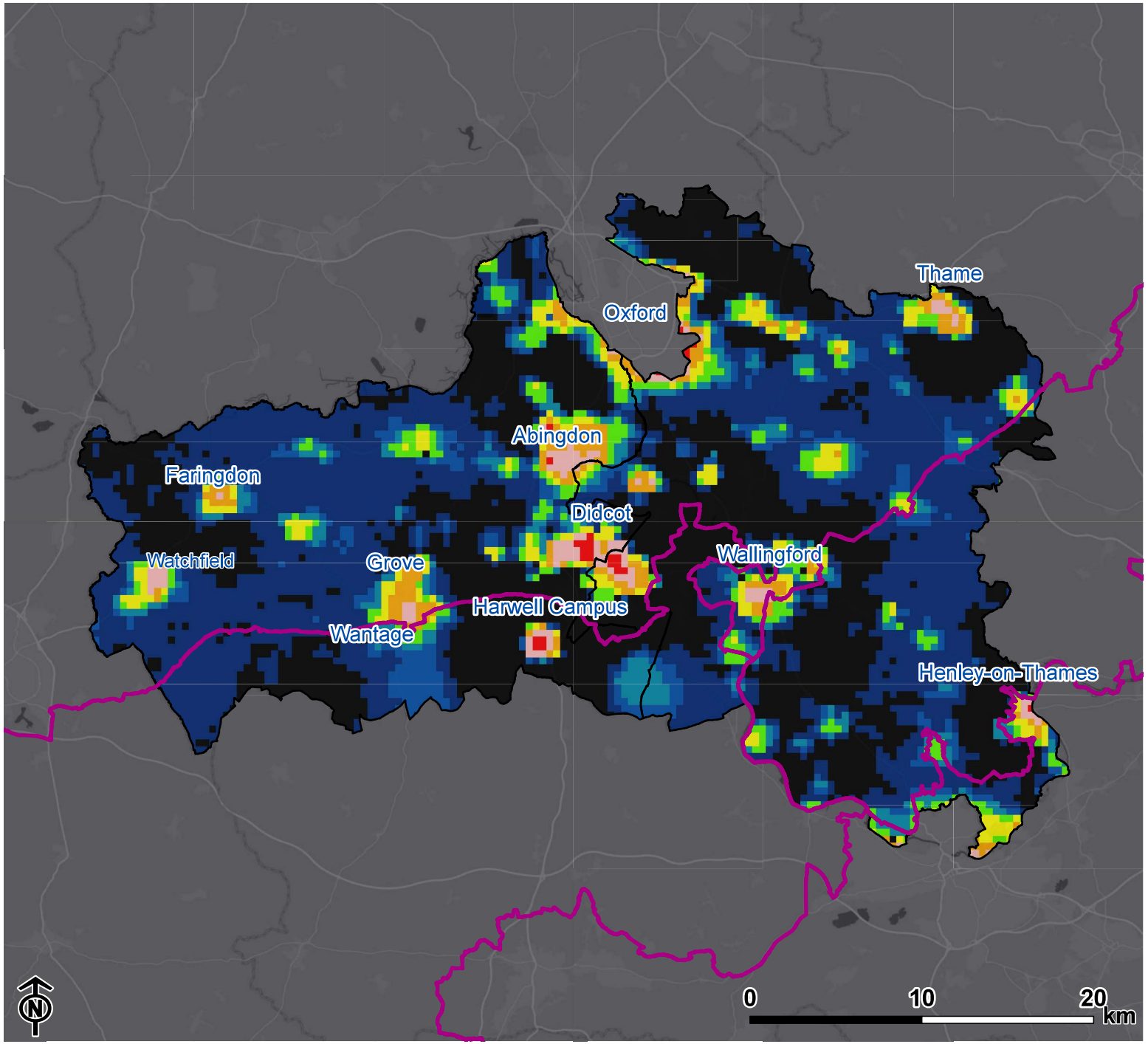
Dark Skies Assessment
South Oxfordshire and Vale of White Horse Councils

LUC

Figure 4.2: Dark Skies and Light Pollution



South Oxfordshire and Vale of White Horse

Area of Outstanding Natural Beauty

Night Lights (NanoWatts / cm2 / sr)

- >32
- 16 - 32
- 8 - 16
- 4 - 8
- 2 - 4
- 1 - 2
- 0.5 - 1
- 0.25 - 0.5
- < 0.25 (highest 50%)
- < 0.25 (lowest 50%)

Brightest

Darkest

Map scale 1:325,000 @ A4

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Maps relating to Policy CE12: Soils and contaminated land

Policy CE12 - Soils and Contaminated Land

Provisional Agricultural Land Classification

District Boundaries

- South Oxfordshire
- Vale of White Horse

Classication

- GRADE 1
- GRADE 2
- GRADE 3
- GRADE 4
- GRADE 5
- NON AGRICULTURAL
- URBAN

Map scale 1:200,000 @A3

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CE12 - Soils and Contaminated Land

Karst Susceptibility Hazard Map

District Boundaries

- South Oxfordshire
- Vale of White Horse

Subsidence Hazard Rating for Natural Cavities in Chalk

- Very High Subsidence Hazard
- High Subsidence Hazard
- Moderately High Subsidence Hazard
- Moderate Subsidence Hazard
- Moderately Low Subsidence Hazard
- Low Subsidence Hazard
- Very Low Subsidence Hazard
- No Anticipated Hazard
- Outside of study area

Map scale 1:200,000 @A3

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Maps relating to Policy NH1: Biodiversity designations

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Policy NH1 - Biodiversity designations

River Lambourn Special Area of Conservation nutrient neutrality catchment

District Boundaries

- South Oxfordshire
- Vale of White Horse

River Lambourn SAC nutrient neutrality catchment

Map scale 1:200,000 @A3

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Policy NH1 - Biodiversity designations

Local Geological Sites

District Boundaries

- South Oxfordshire
- Vale of White Horse

- Local Geological Sites

Map scale 1:200,000 @A3

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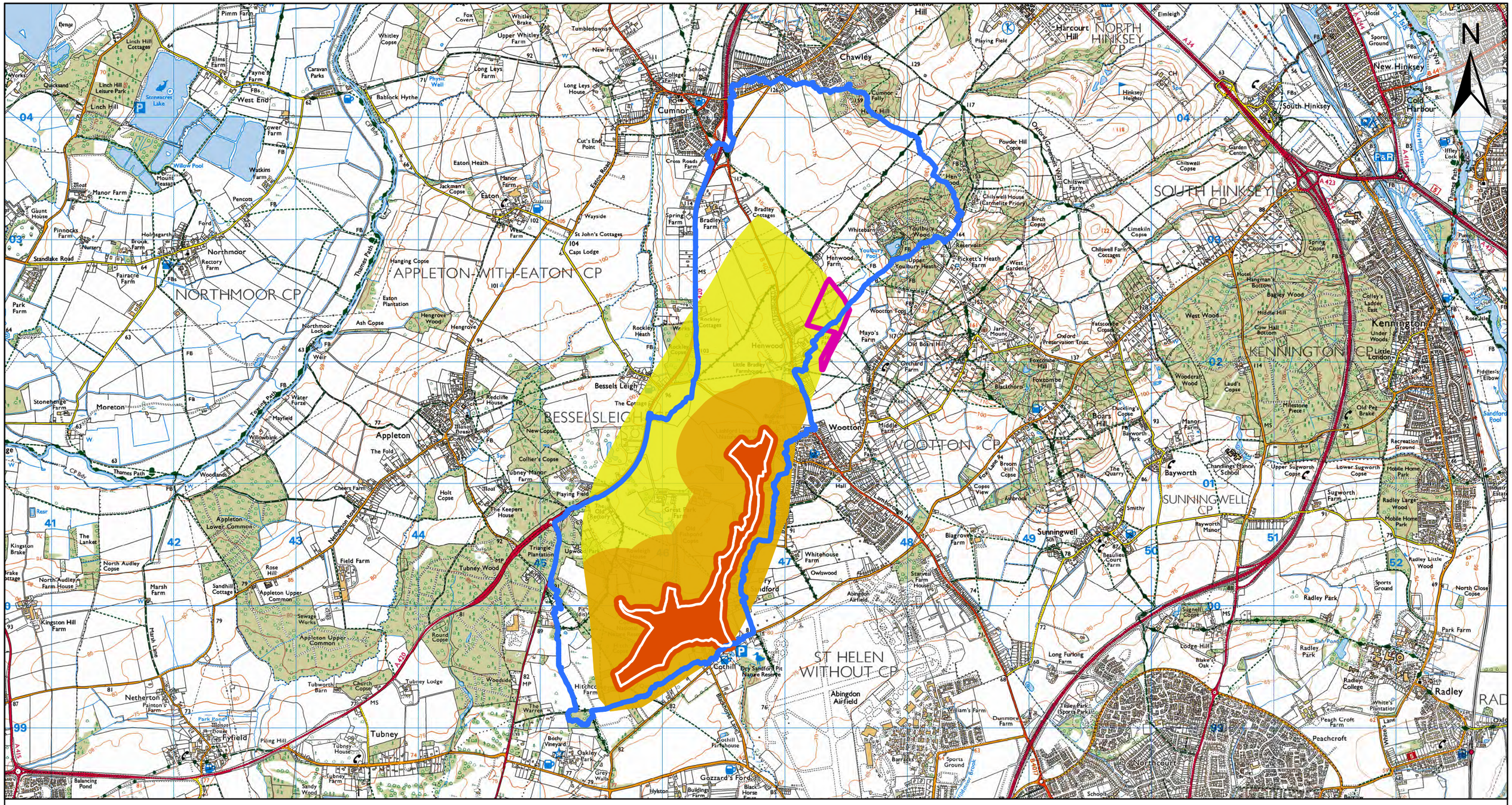

Figure A3.1 Risk zones mapped for Cothill Fen (site ref. 1)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:30,000 @A3

0 0.75 1.5 km

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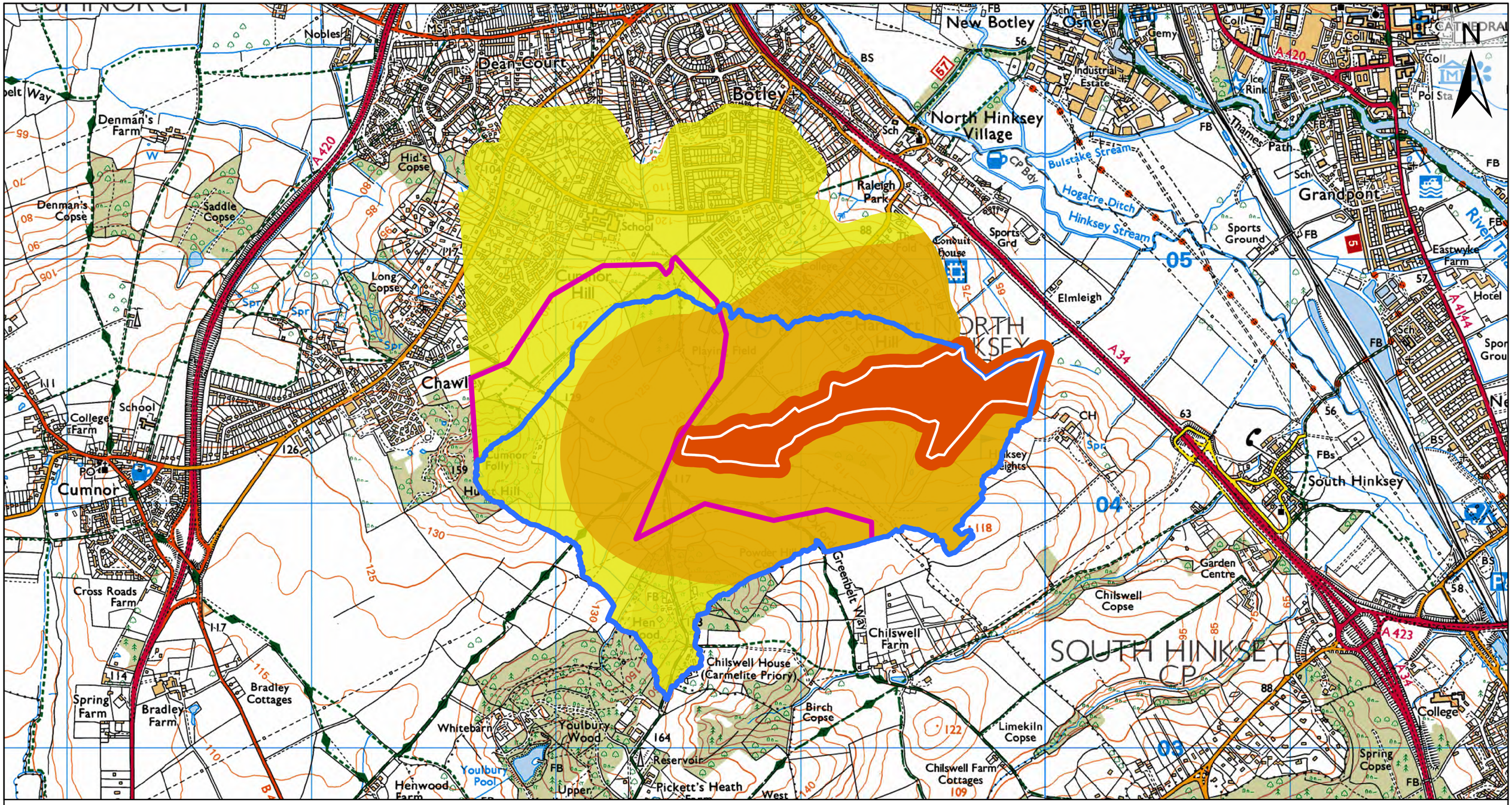

Figure A3.2 Risk zones mapped for Hinksey Heights (site ref. 2)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:15,000 @A3

0 0.38 0.75 km

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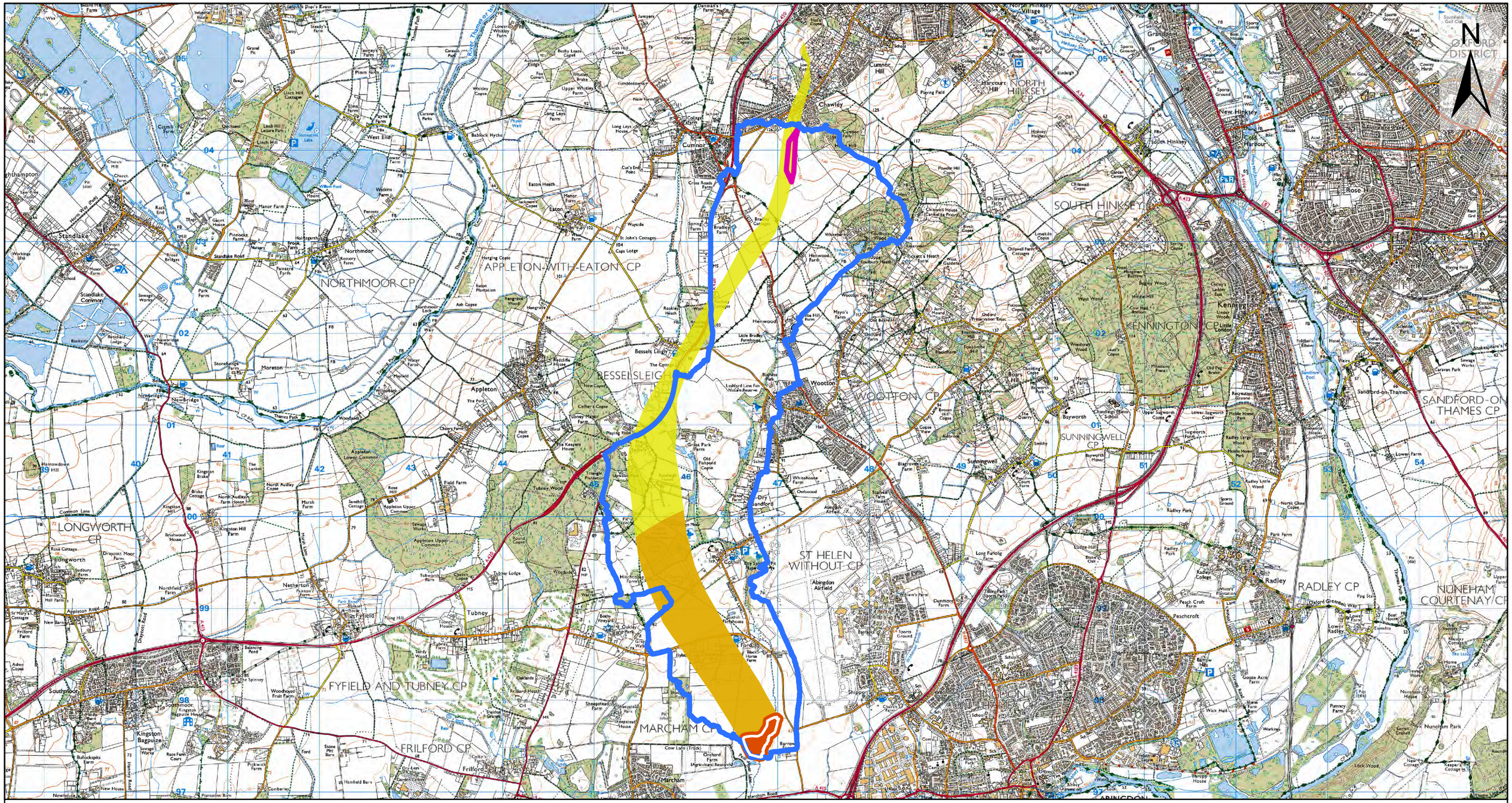

Figure A3.3 Risk zones mapped for Barrow Farm Fen (site ref. 3)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:40,000 @A3

0 1 2 km

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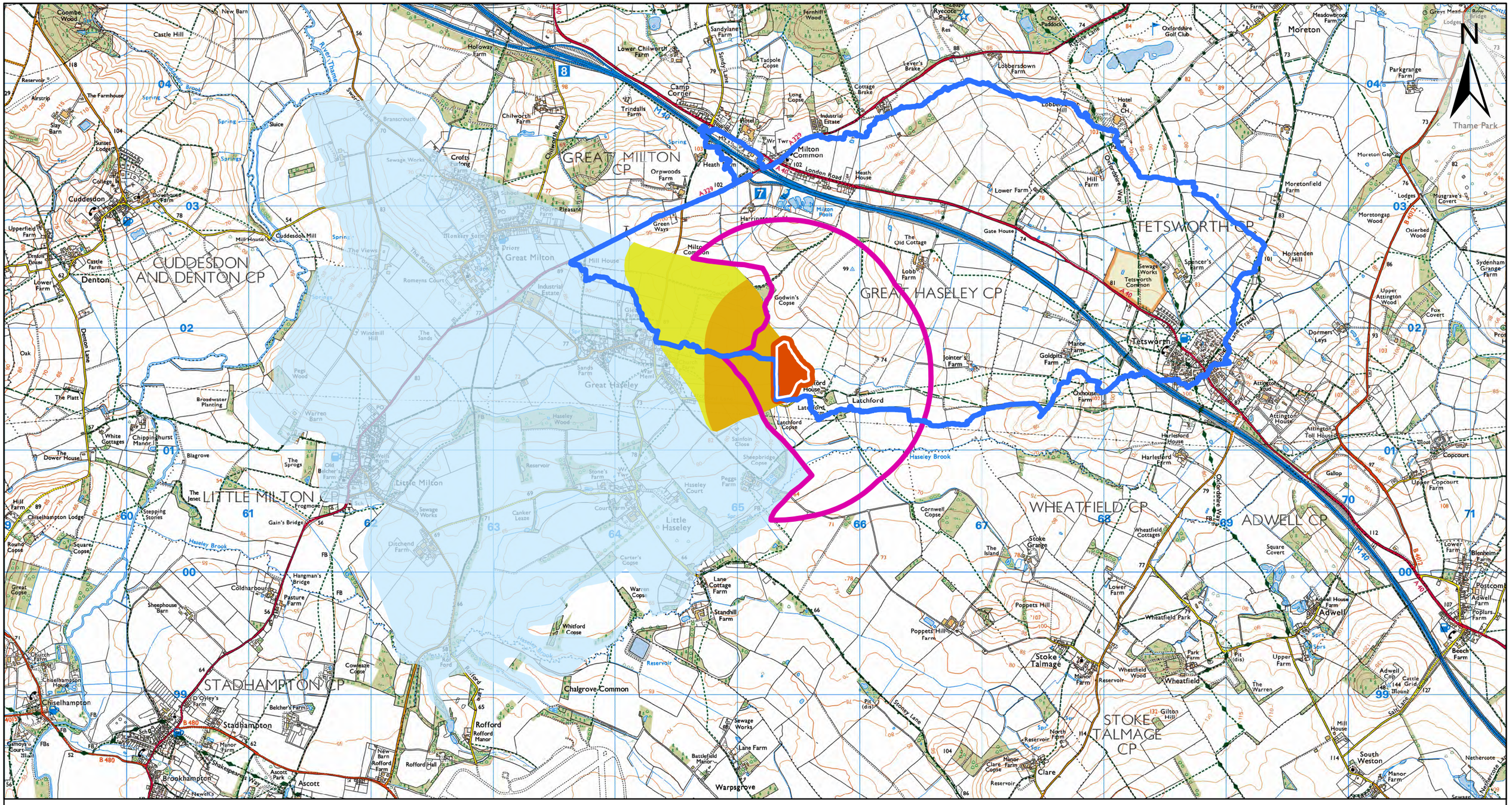

Figure A3.4 Risk zones mapped for Spartum Fen (site ref. 4)

Fen site

Hydrological risk zone

- **Zone 1 - Groundwater body**
- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

Freshwater Habitats Trust

Scale:
1:30,000 @A3

0 0.75 1.5 km

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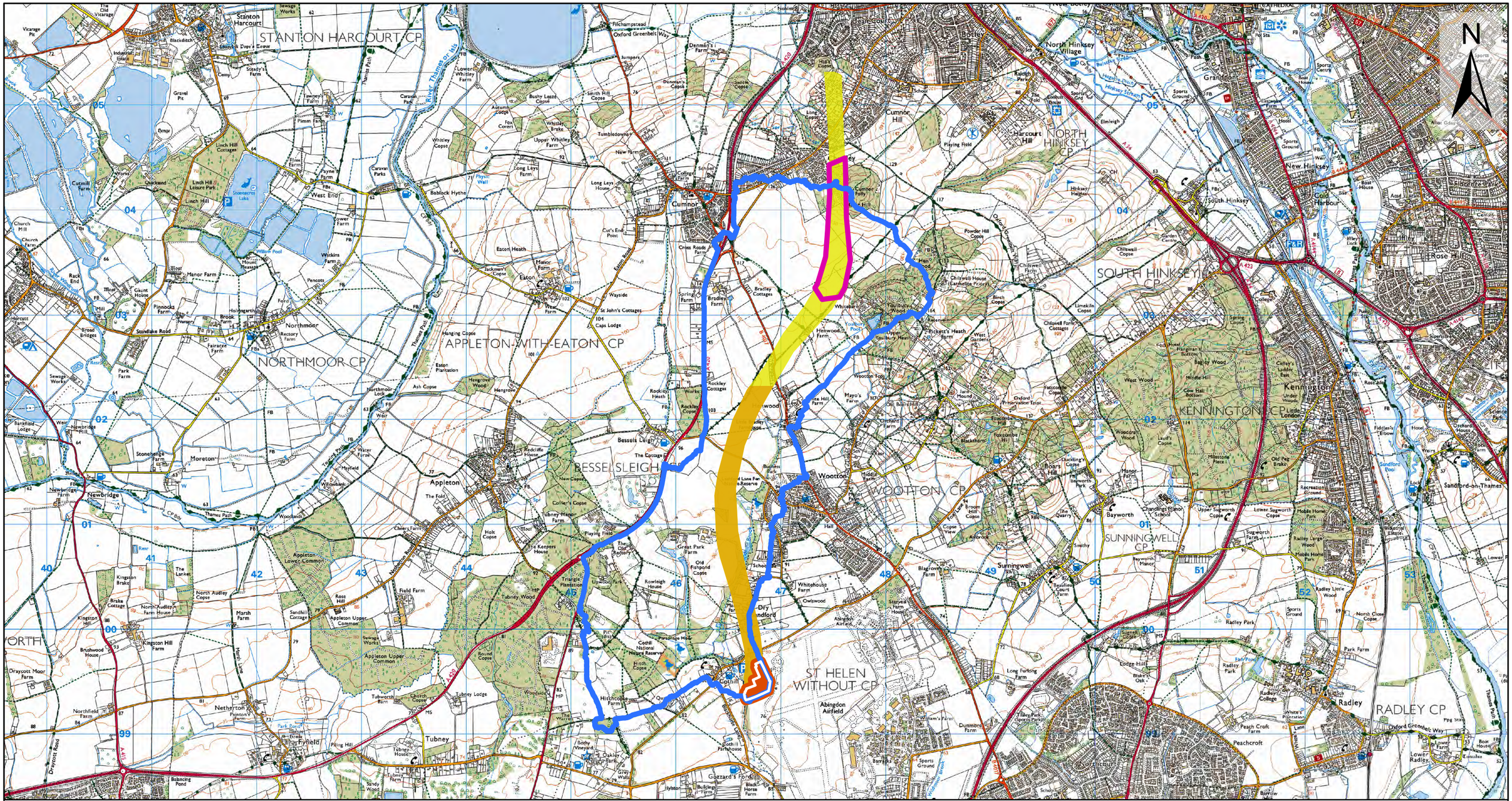

Figure A3.5 Risk zones mapped for Dry Sandford Pit (site ref. 5)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:35,000 @A3

0 0.75 1.5 km

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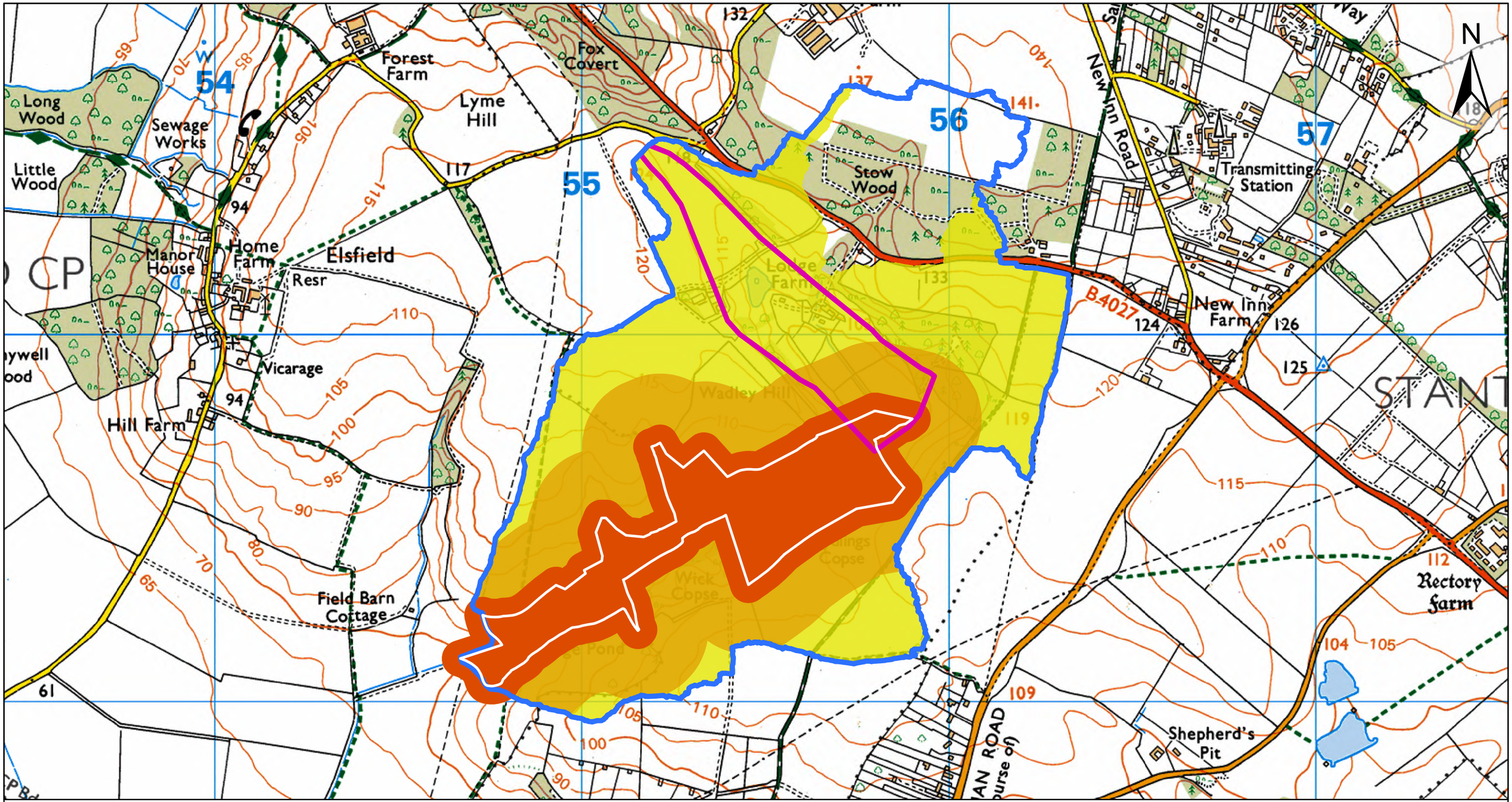

Figure A3.6 Risk zones mapped for Sidling's Copse and College Pond (site ref. 6)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 2b - Groundwater catchment – confined flow
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:10,000 @A3

0 0.25 0.5 km

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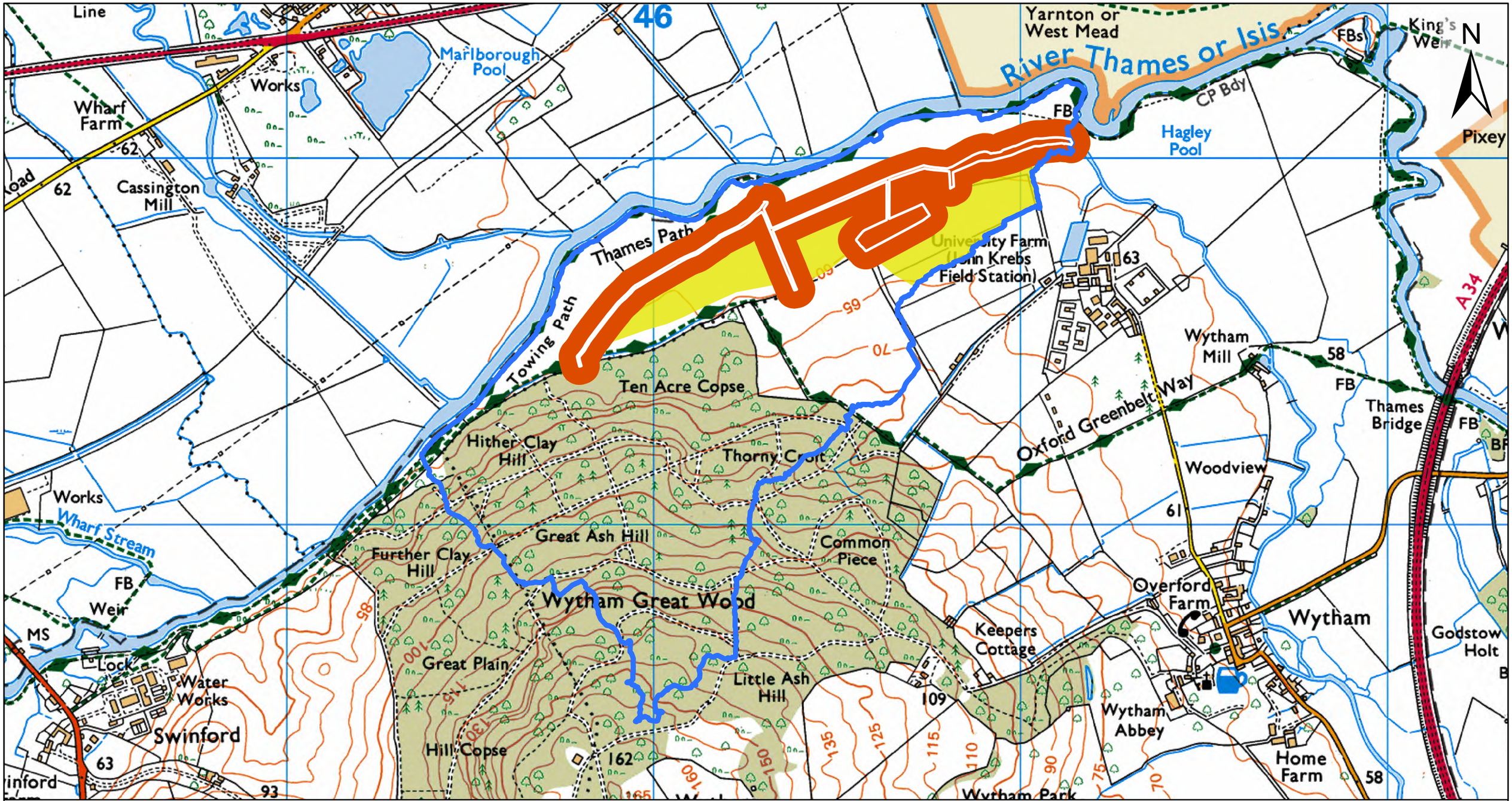

Figure A3.7 Risk zones mapped for Wytham Ditches and Flushes (site ref. 7)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this site lies over a superficial groundwater body - Zone 1 not mapped.

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Scale:
1:10,000 @A3

0 0.25 0.5 km

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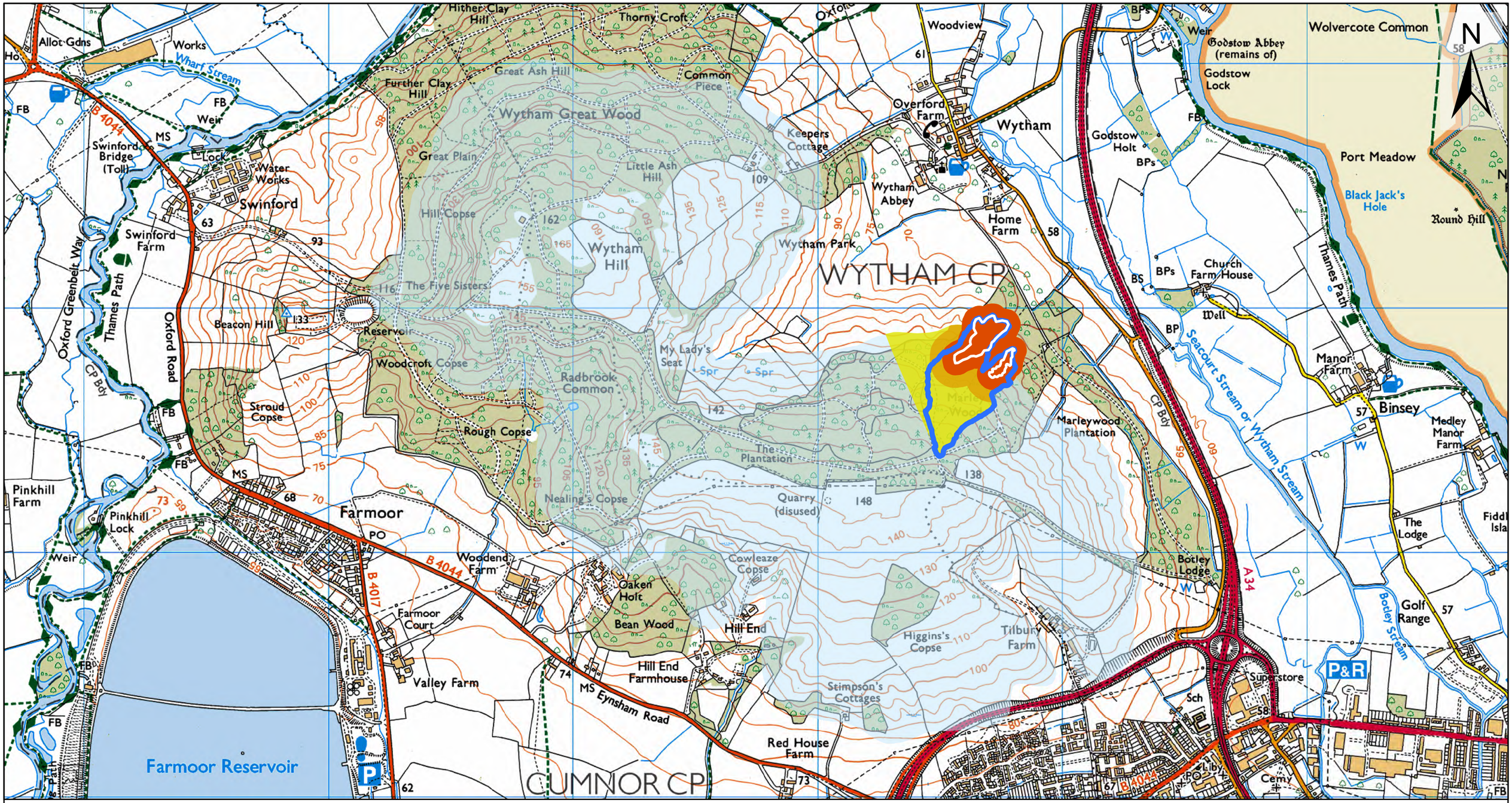

Figure A3.8 Risk zones mapped for Marley Fens (site ref. 8)

Fen site

Hydrological risk zone

- **Zone 1 - Groundwater body**
- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

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Scale:
1:15,000 @A3

0 0.38 0.75 km

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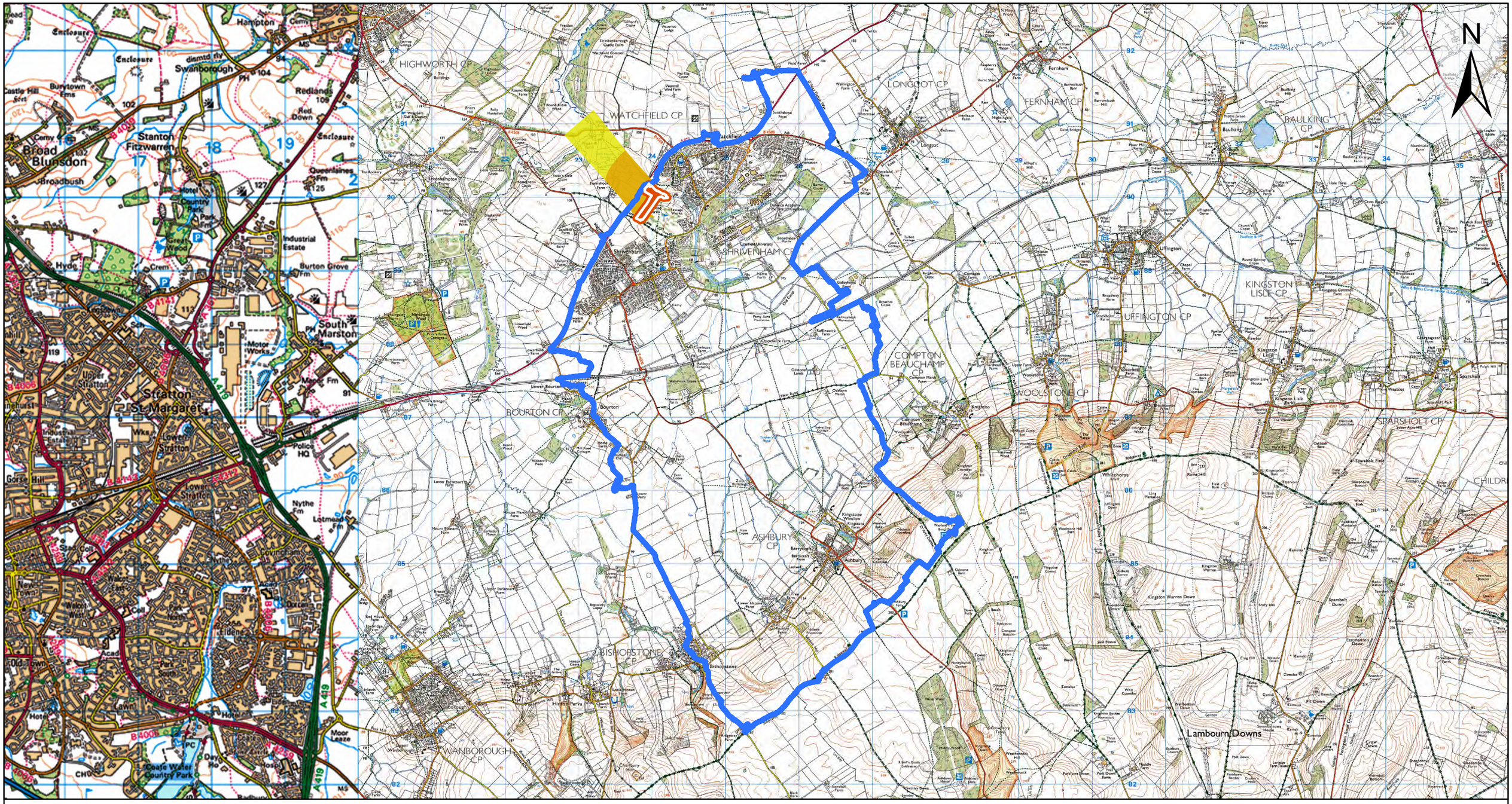

Figure A3.9 Risk zones mapped for Tuckmill Meadows (site ref. 9)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:50,000 @A3

0 1.25 2.5 km

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Figure A3.10 Risk zones mapped for Gozzards Ford Fen (site ref. 10)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:35,000 @A3

0 0.75 1.5 km

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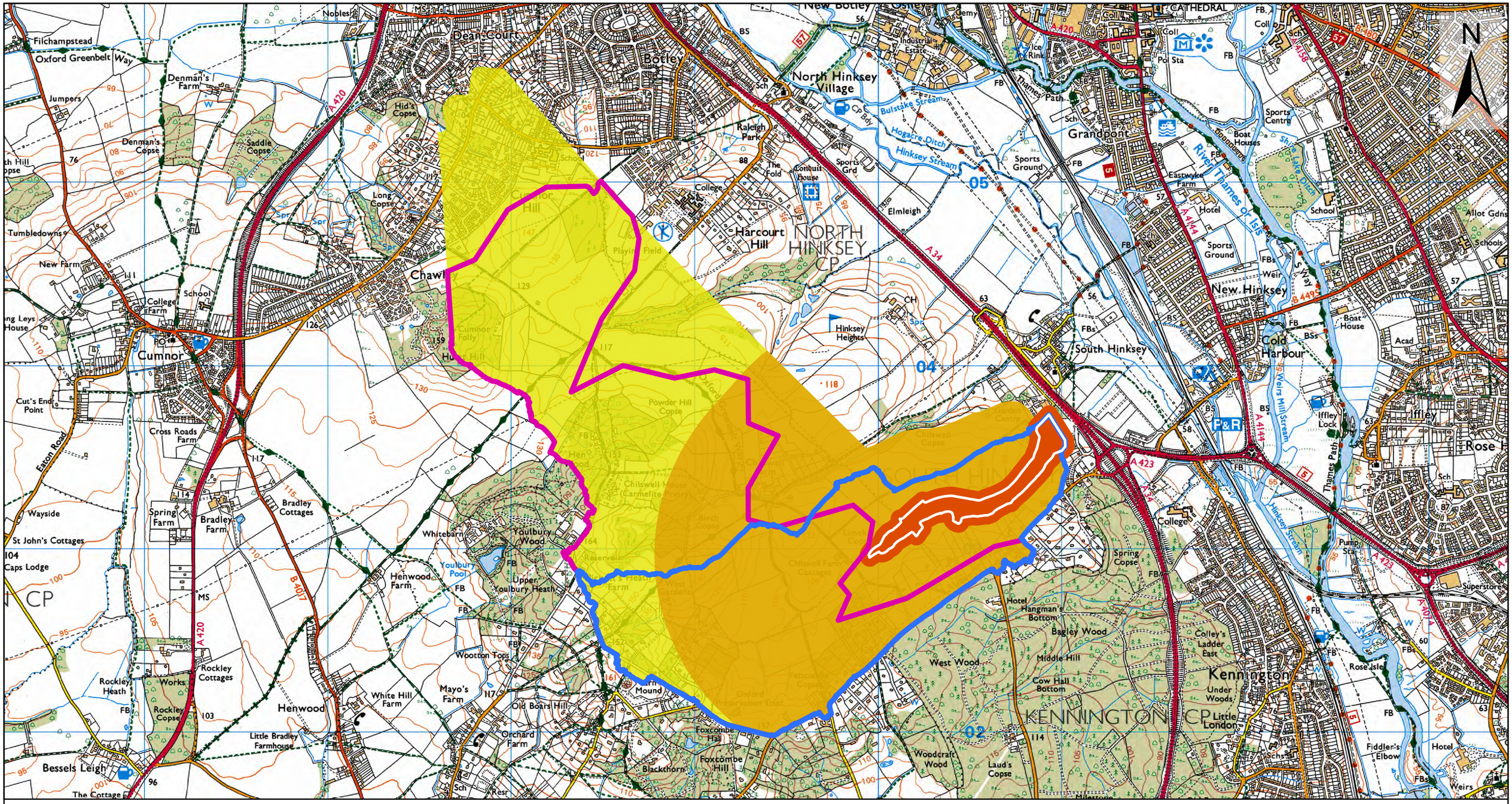

Figure A3.11 Risk zones mapped for Limekiln Copse and Valley (site ref. 11)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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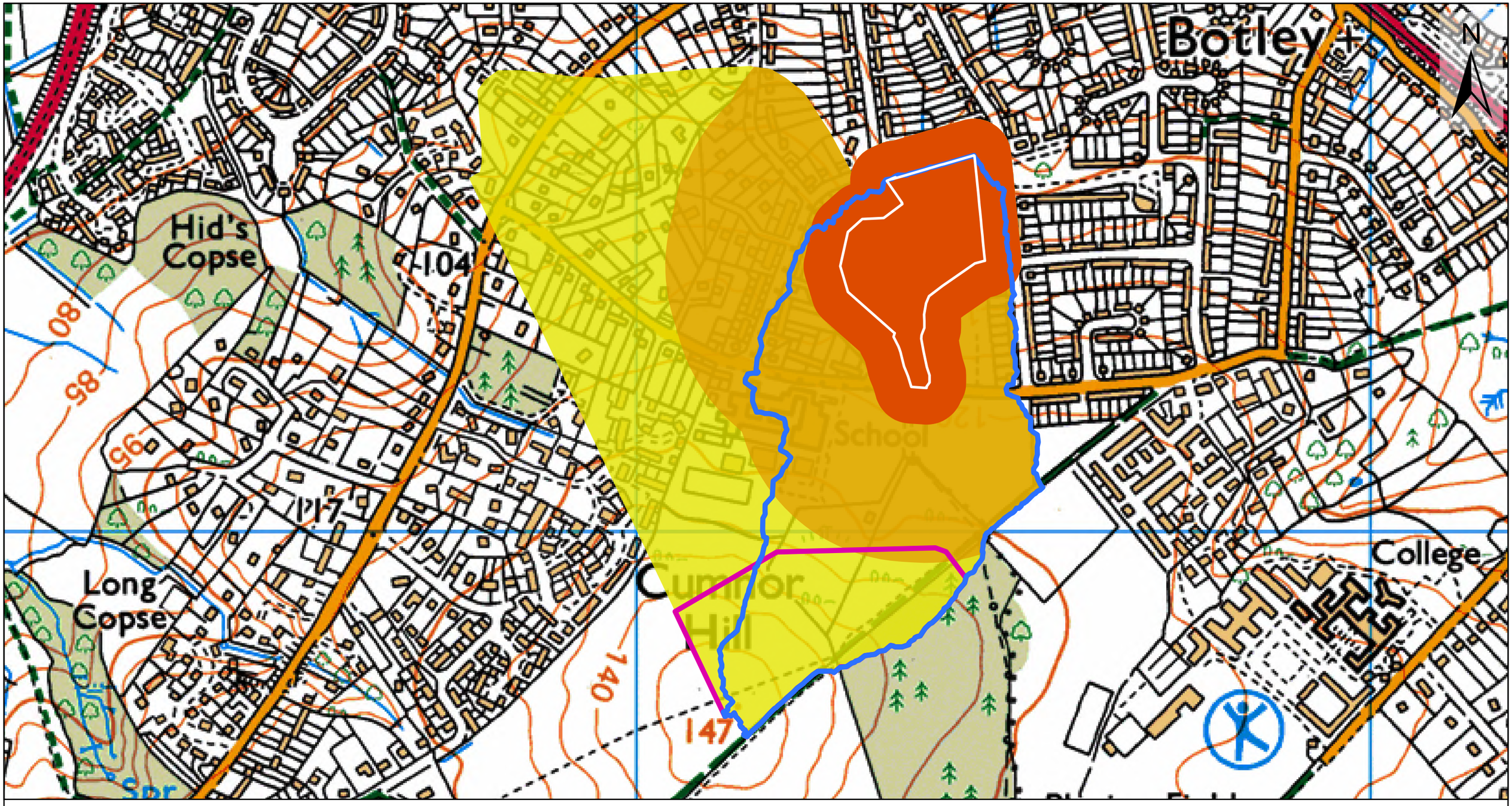

Figure A3.12 Risk zones mapped for Louie Memorial Fields (site ref. 12)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 2b - Groundwater catchment – confined flow
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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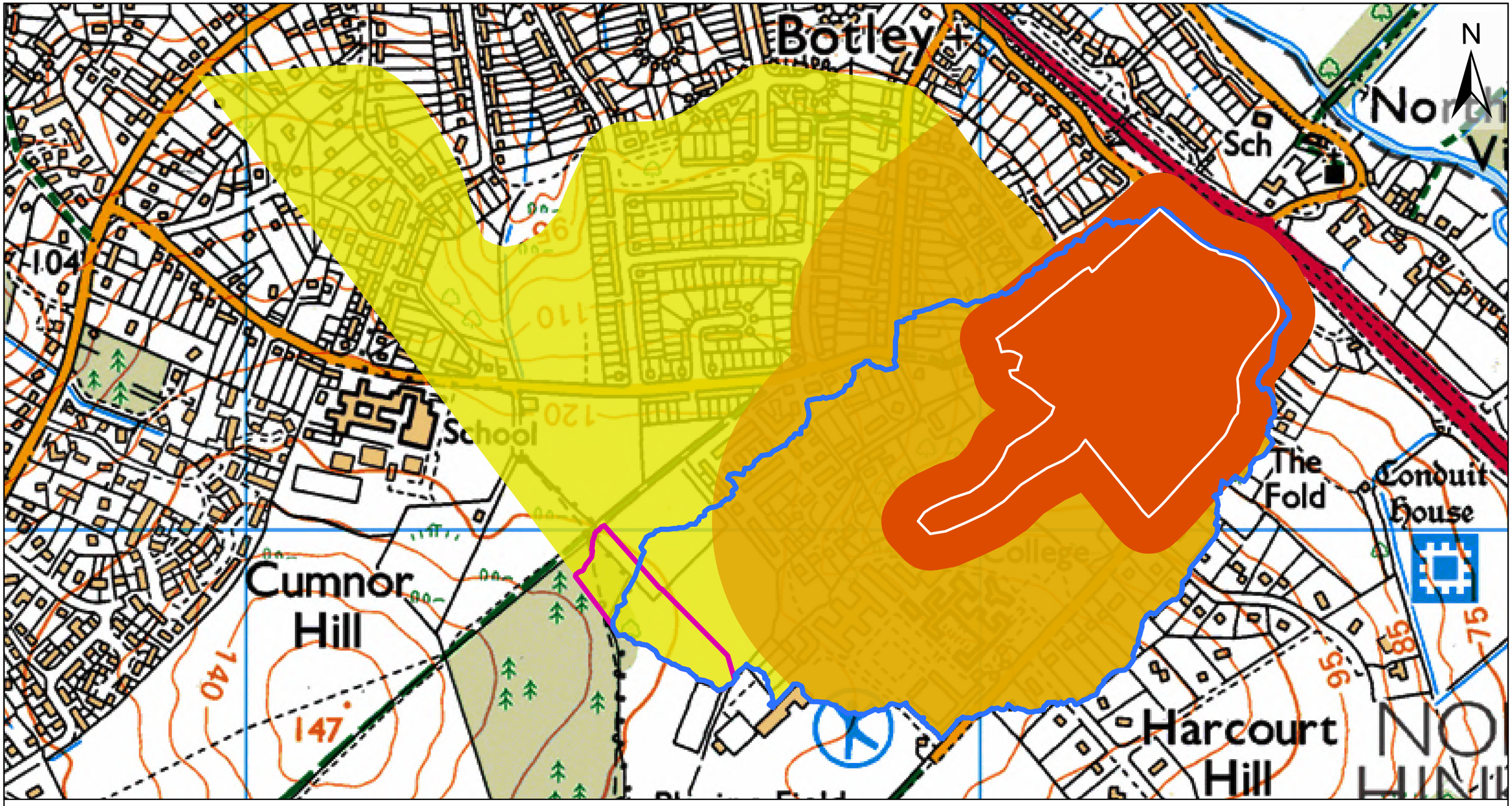

Figure A3.13 Risk zones mapped for Raleigh Park (site ref. 13)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 2b - Groundwater catchment – confined flow
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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Figure A3.14 Risk zones mapped for Abbey Fishponds (site ref. 14)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this site lies over a superficial groundwater body - Zone 1 not mapped.

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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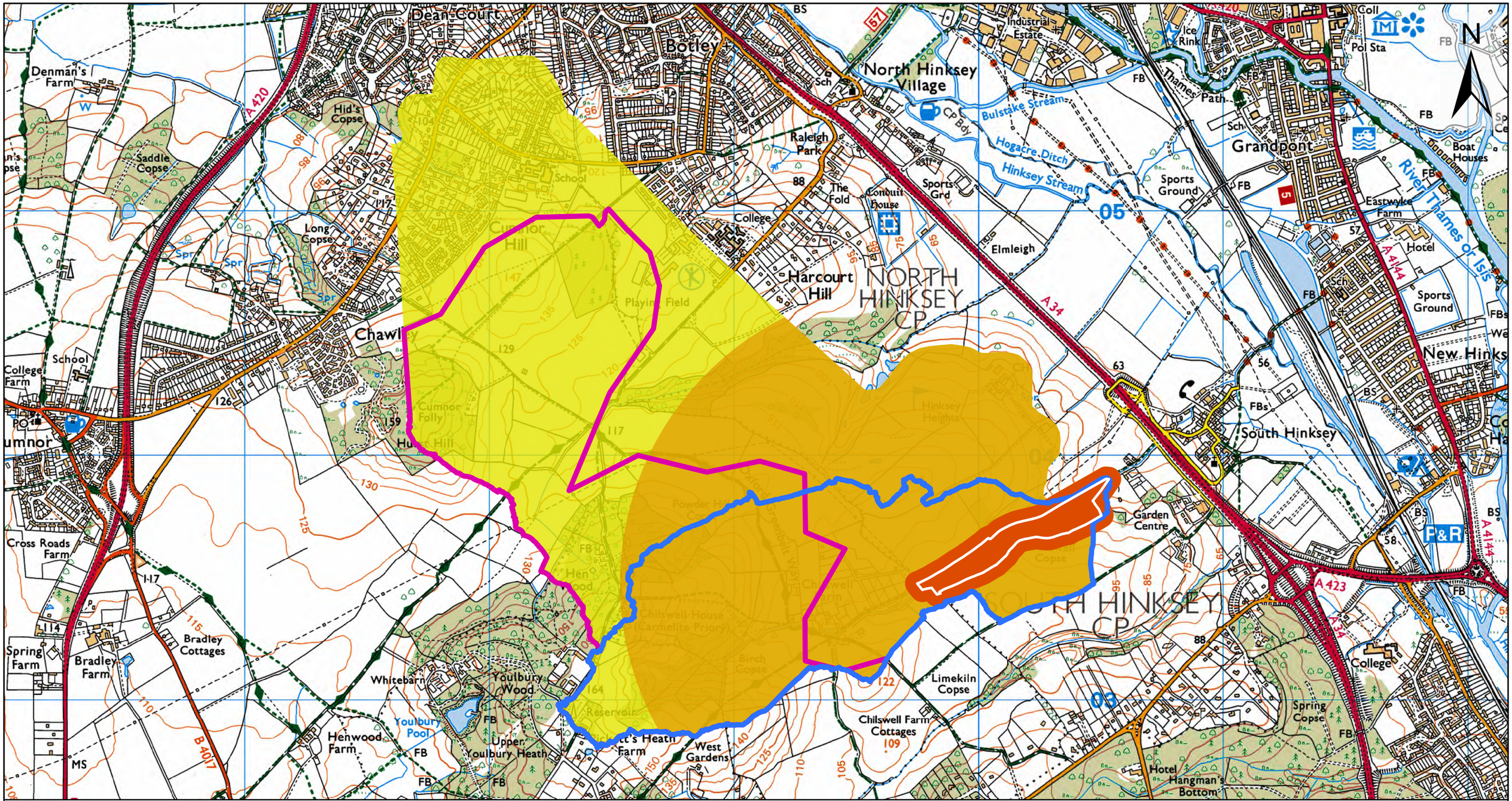

Figure A3.15 Risk zones mapped for Chilswell Valley (site ref. 15)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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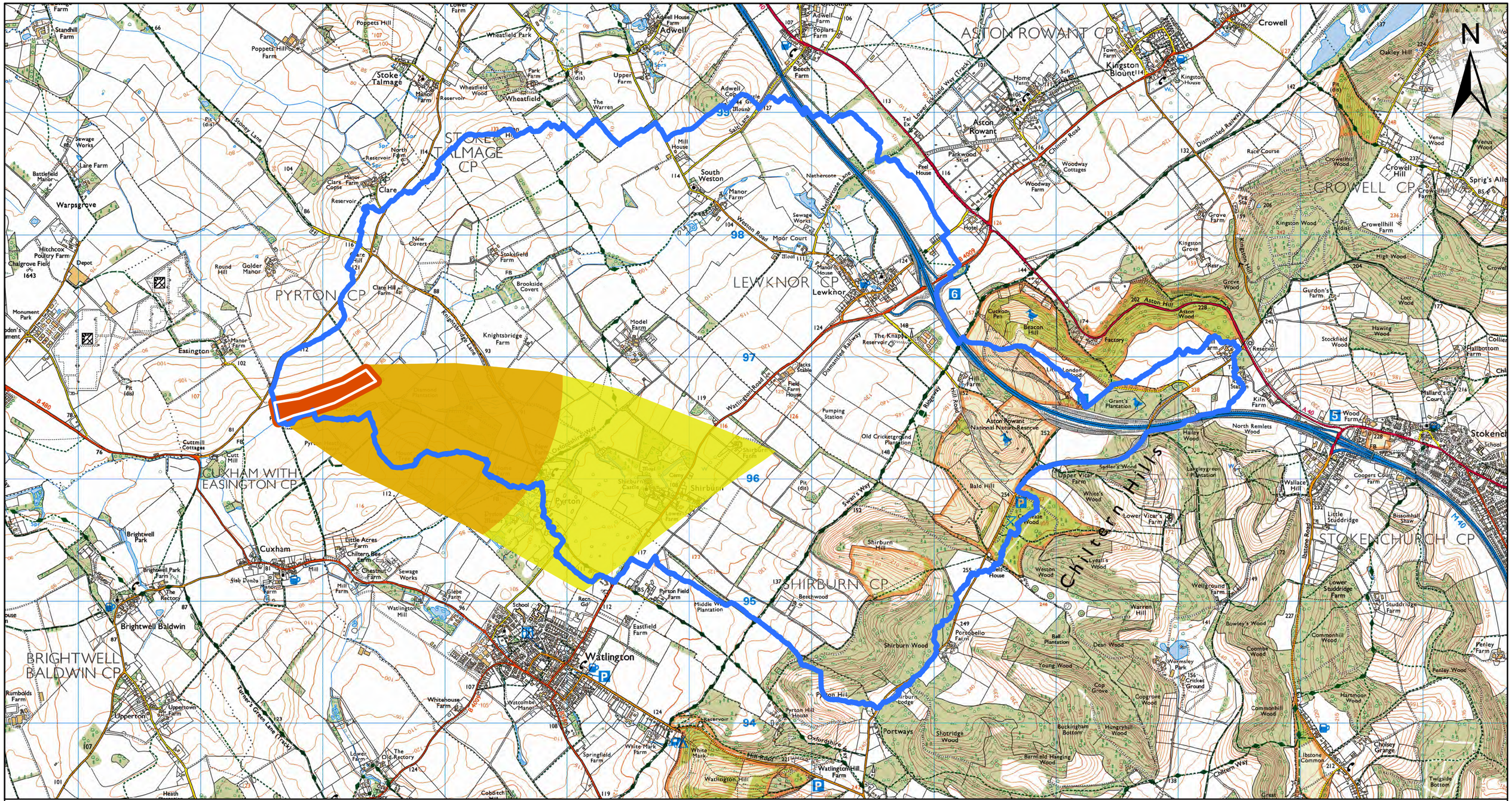

Figure A3.16 Risk zones mapped for Easington Fen (site ref. 16)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Chiltern Chalk Scarp groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:30,000 @A3

0 0.75 1.5 km

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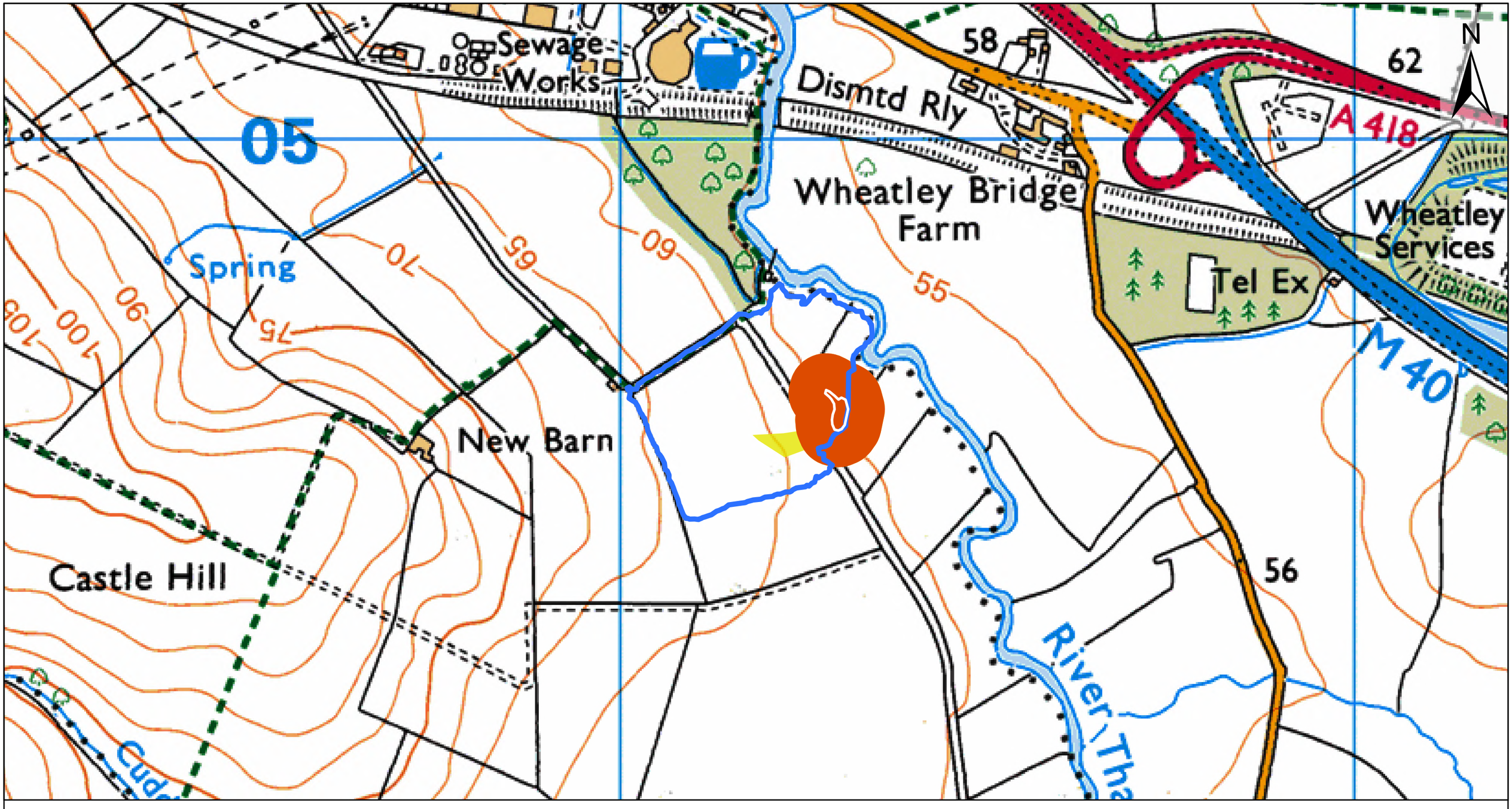

Figure A3.17 Risk zones mapped for Wheatley Bog (site ref. 17)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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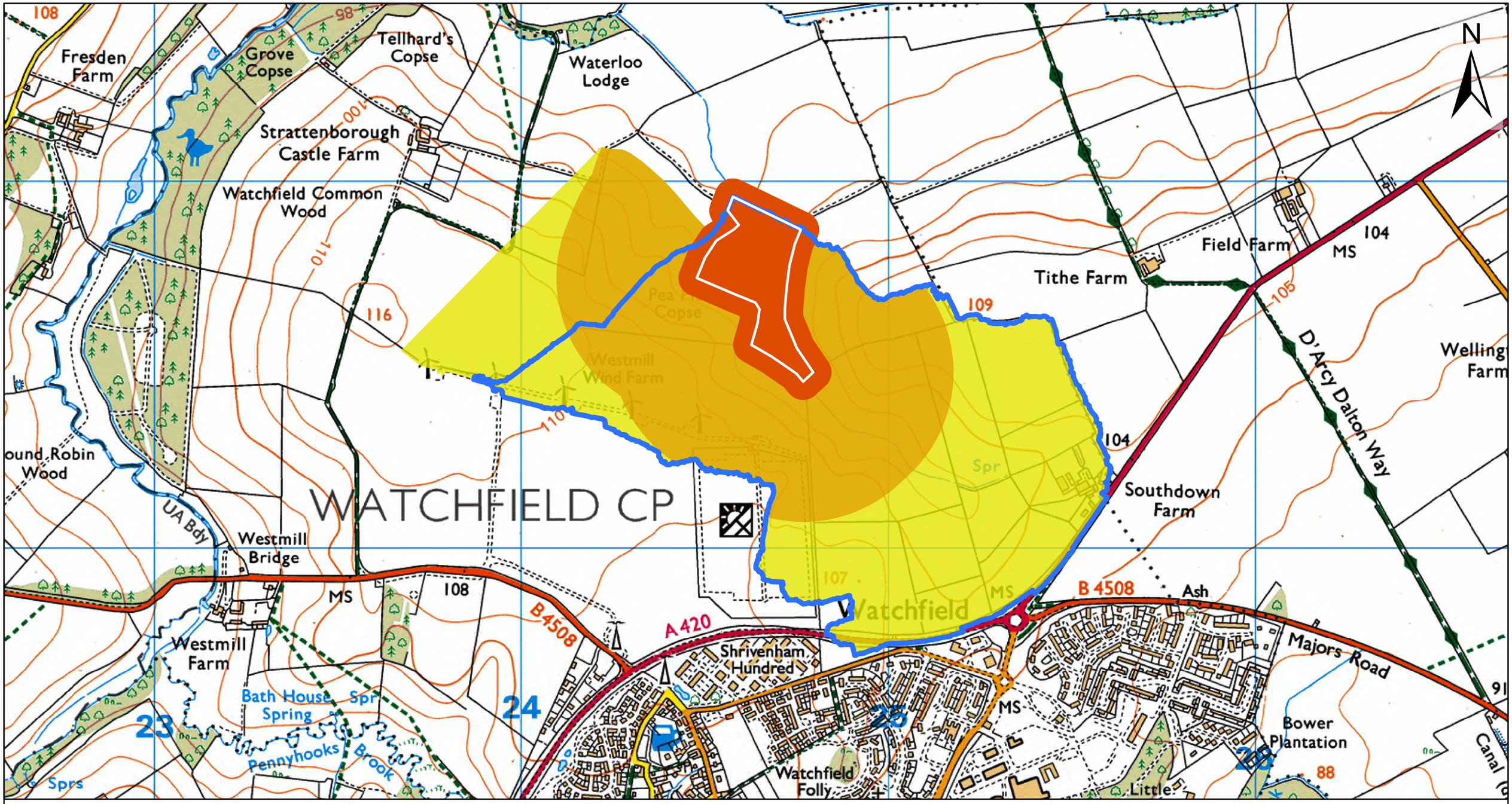

Figure A3.18 Risk zones mapped for Pea Pits Copse (site ref. 18)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:10,000 @A3

0 0.25 0.5 km

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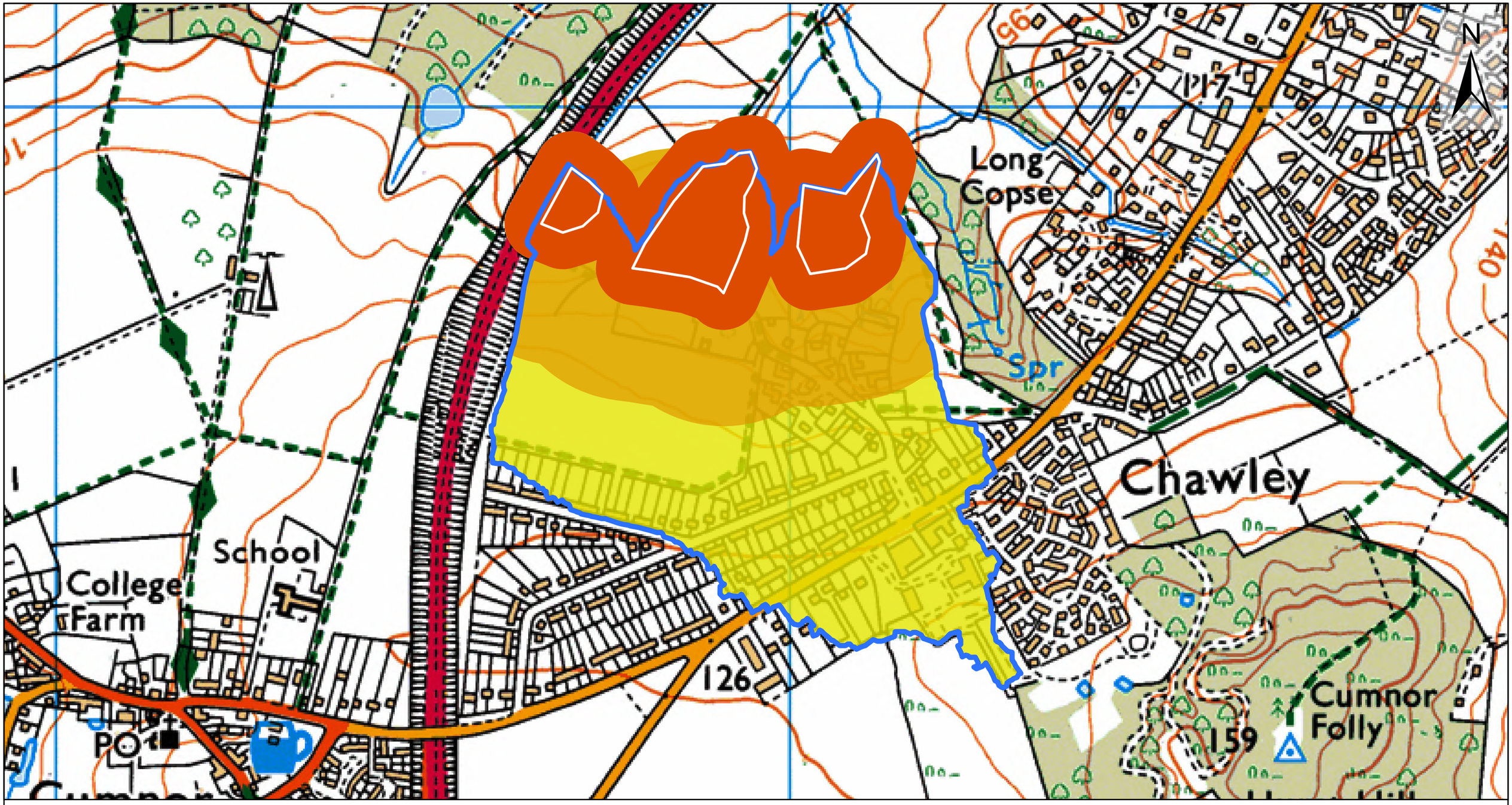

Figure A3.19 Risk zones mapped for Chawley Pastures (site ref. 19)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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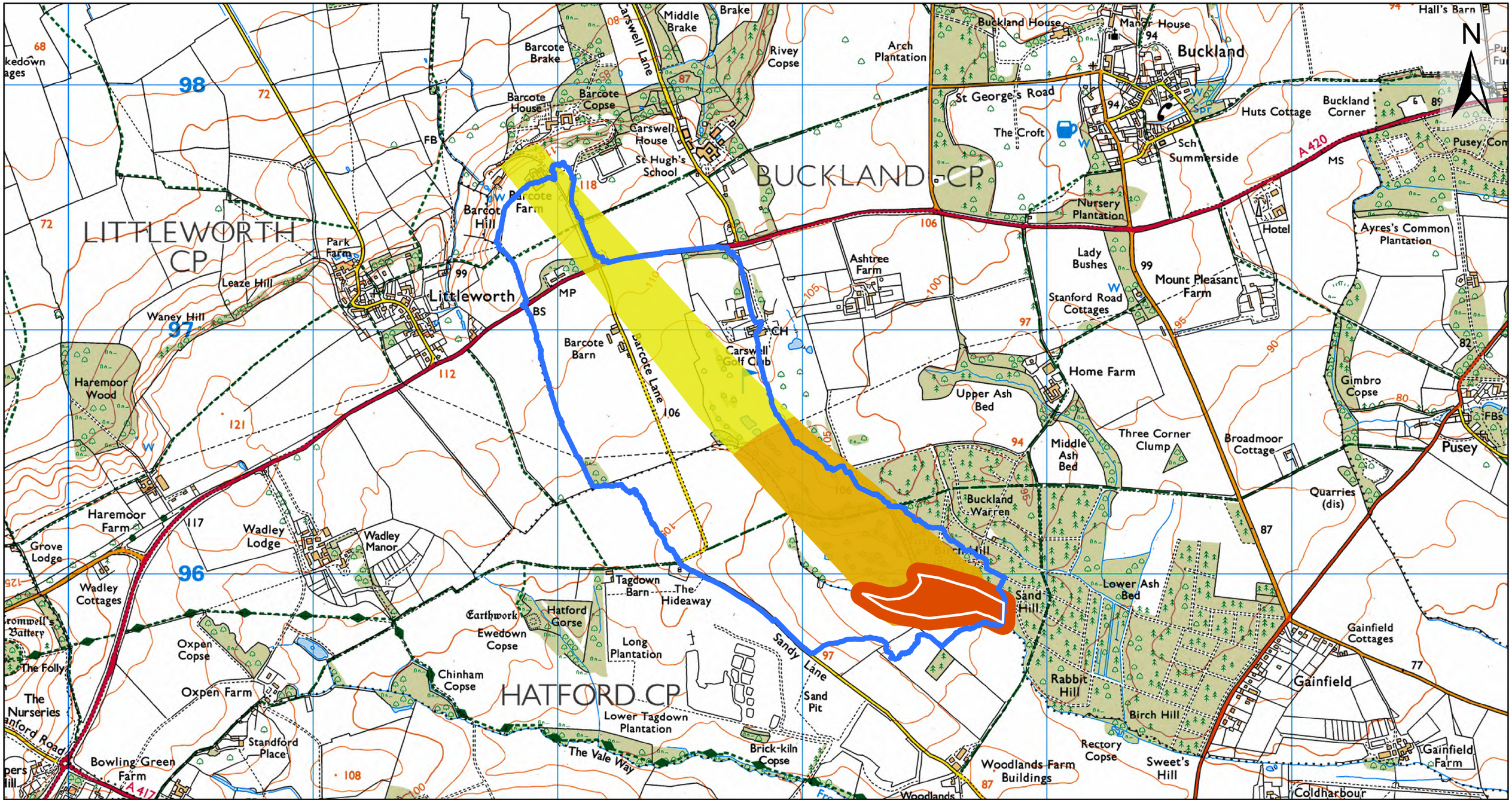

Figure A3.20 Risk zones mapped for Peat Bottom Wood (site ref. 20)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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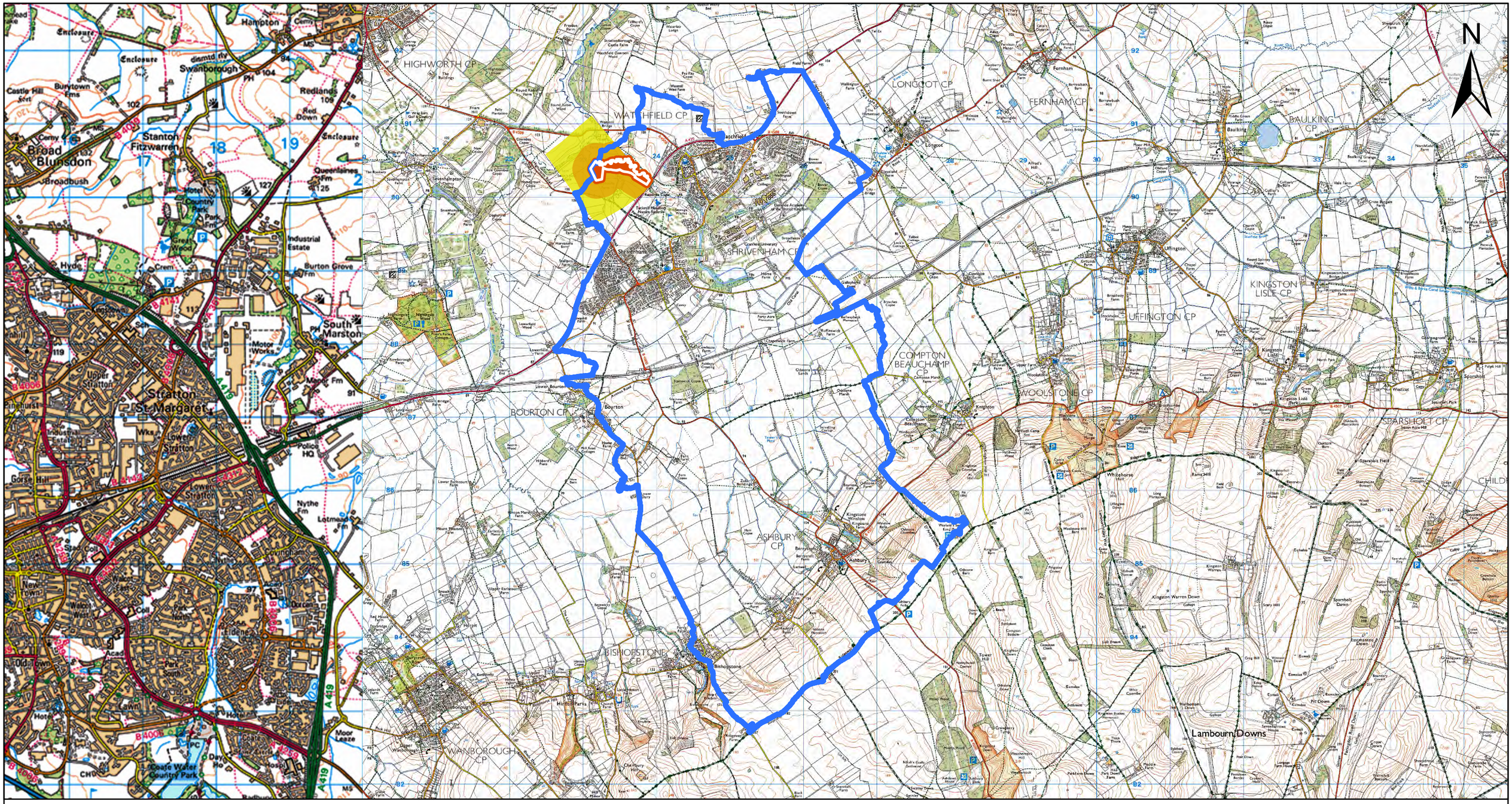

Figure A3.21 Risk zones mapped for Pennyhooks Brook Marsh (site ref. 21)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:50,000 @A3

0 1.25 2.5 km

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Figure A3.22 Risk zones mapped for West Hagbourne Moor (site ref. 22)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Berkshire Downs Chalk groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:25,000 @A3

0 0.5 1 km

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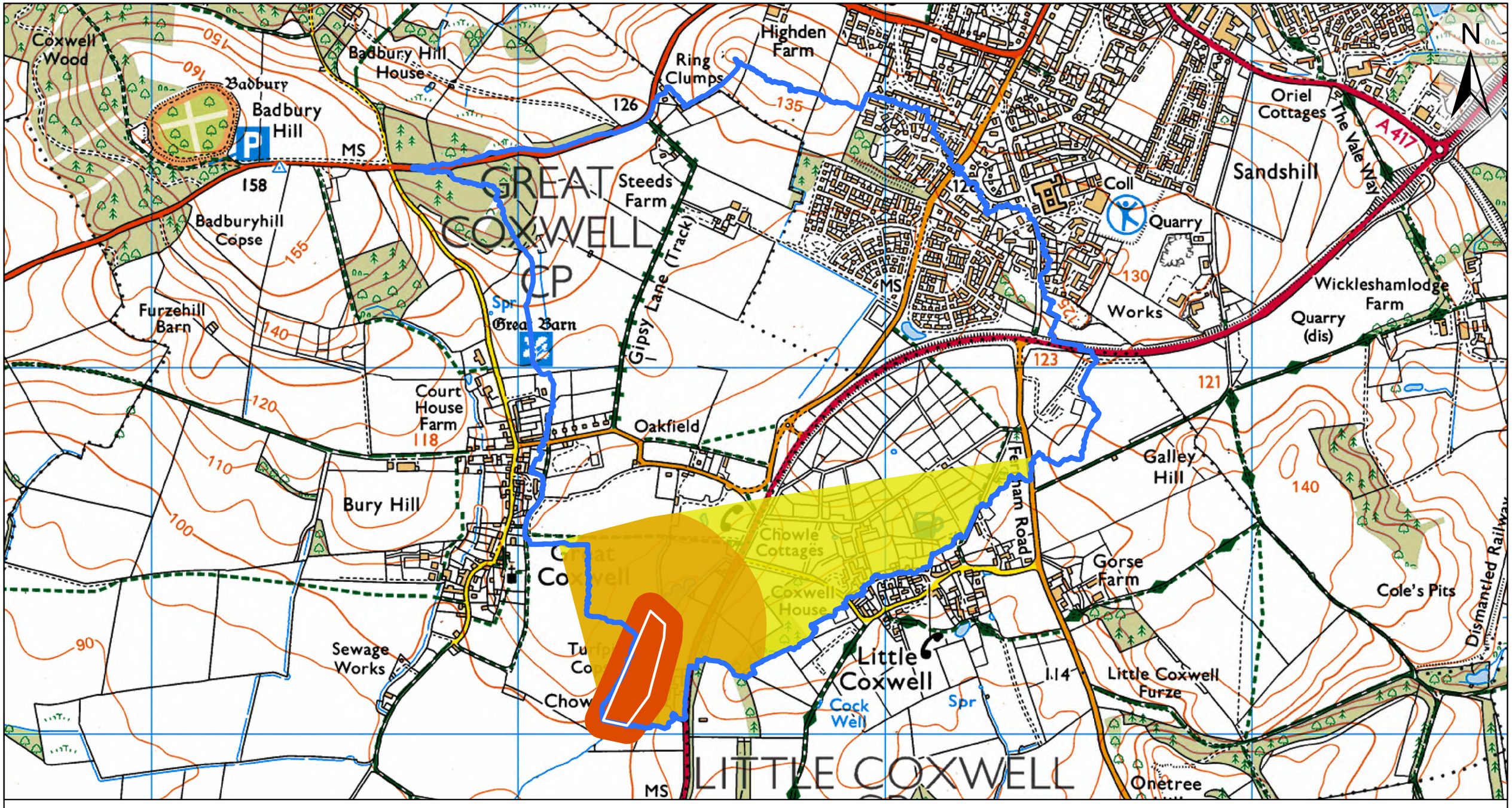

Figure A3.23 Risk zones mapped for Turfpit Copse (site ref. 23)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:10,000 @A3

0 0.25 0.5 km

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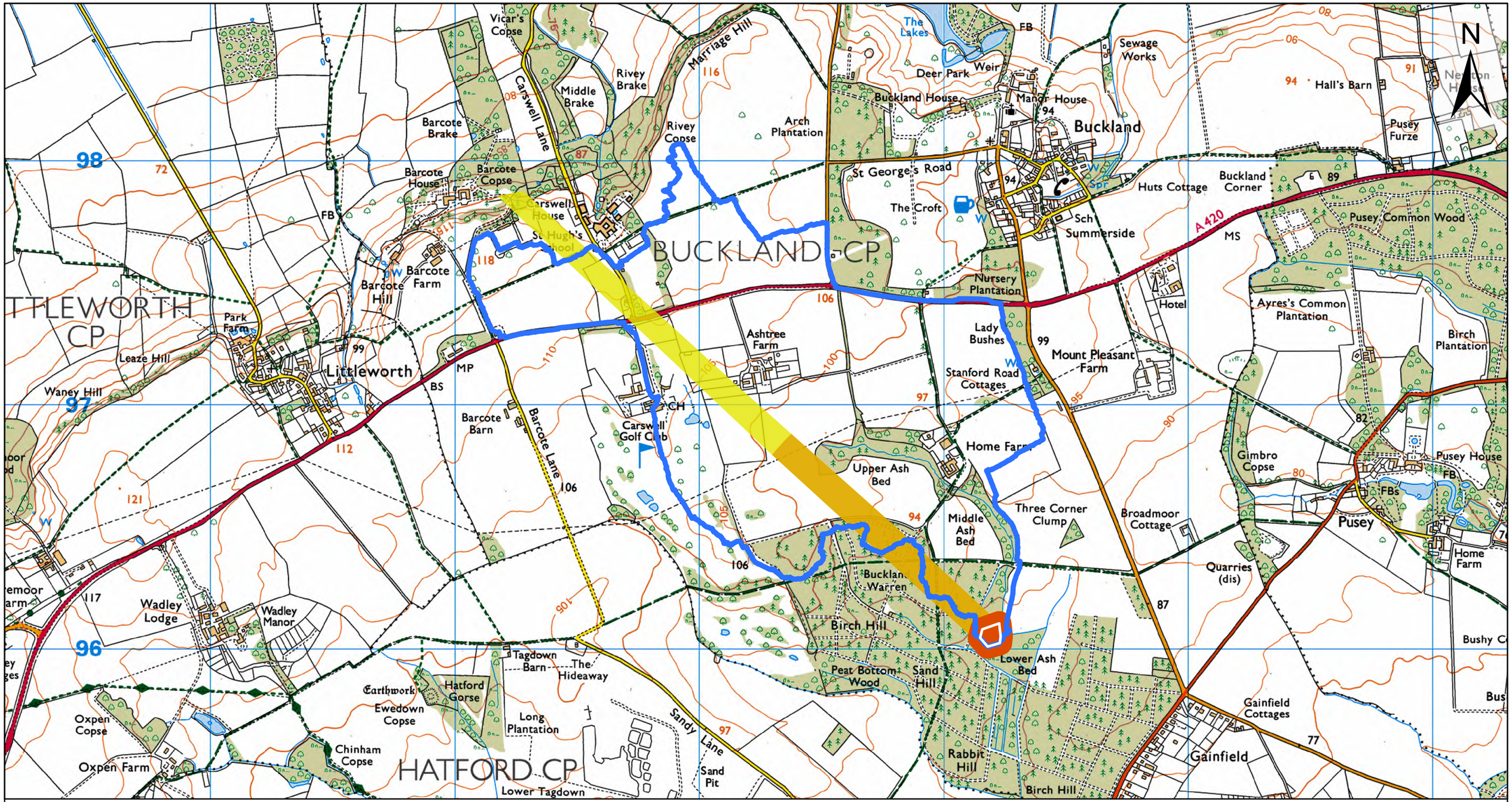

Figure A3.24 Risk zones mapped for Lower Ash Bed (site ref. 24)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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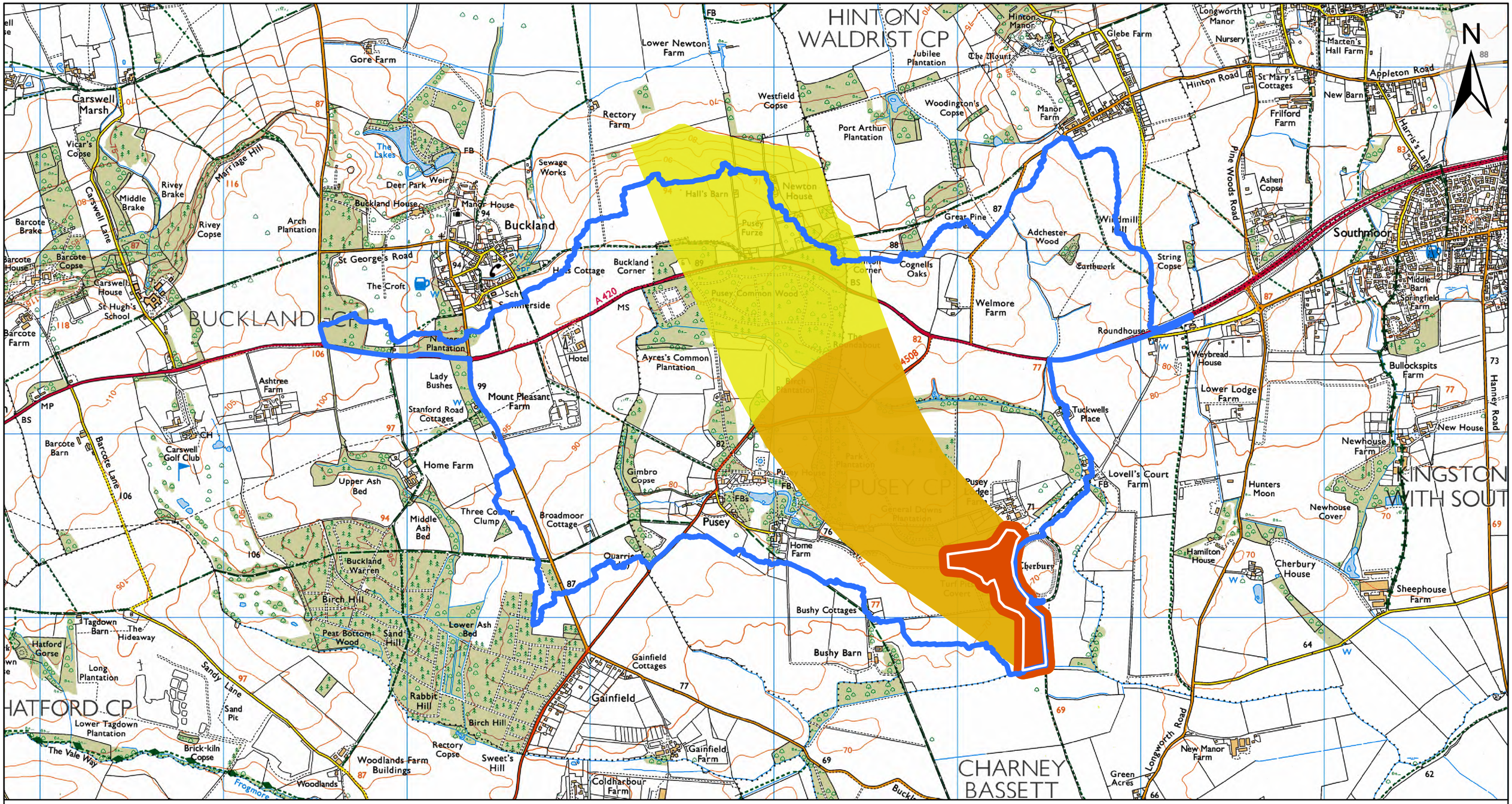

Figure A3.25 Risk zones mapped for Turf Pits Covert (site ref. 25)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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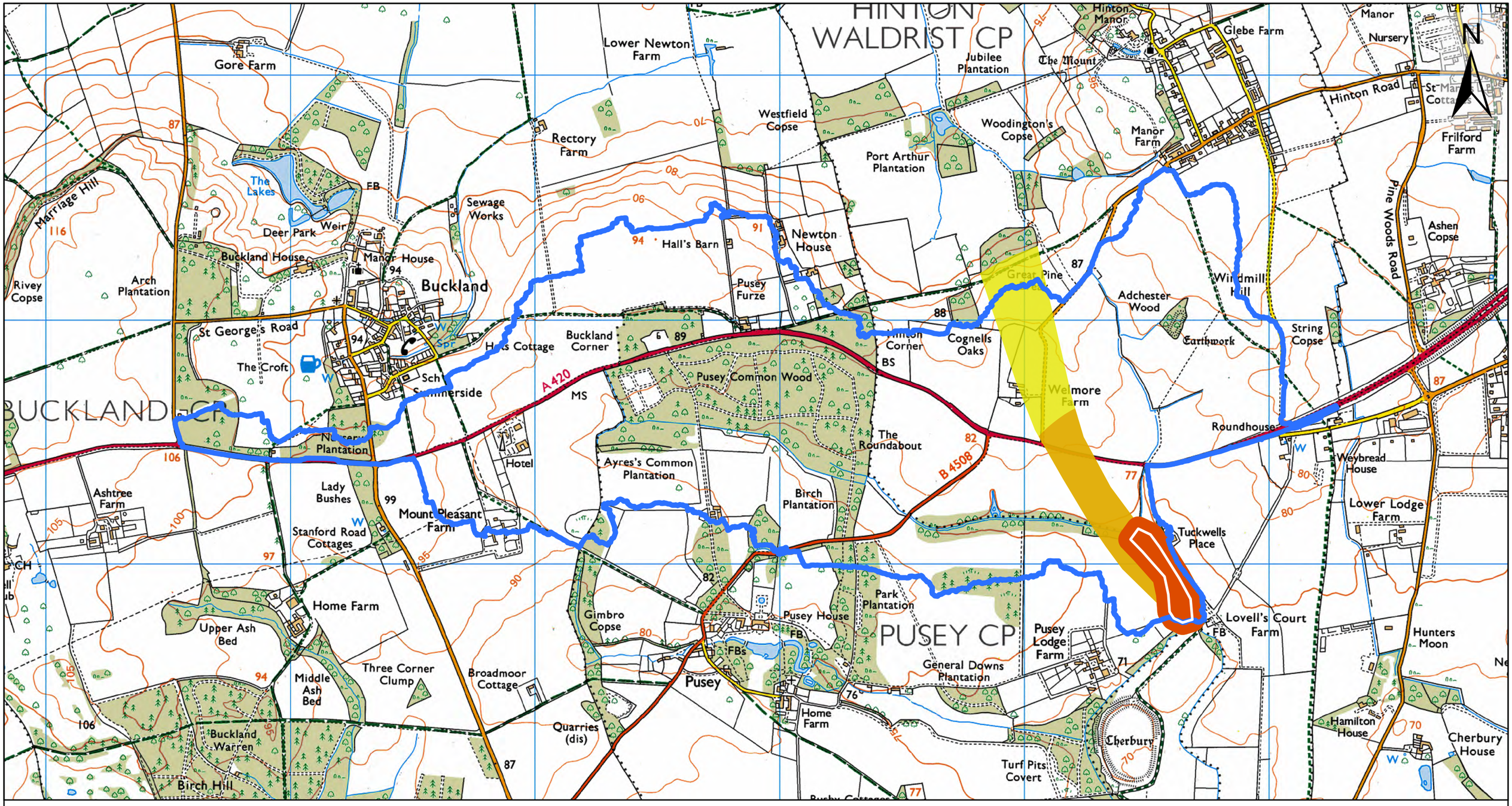

Figure A3.26 Risk zones mapped for Lovell's Court Wood (site ref. 26)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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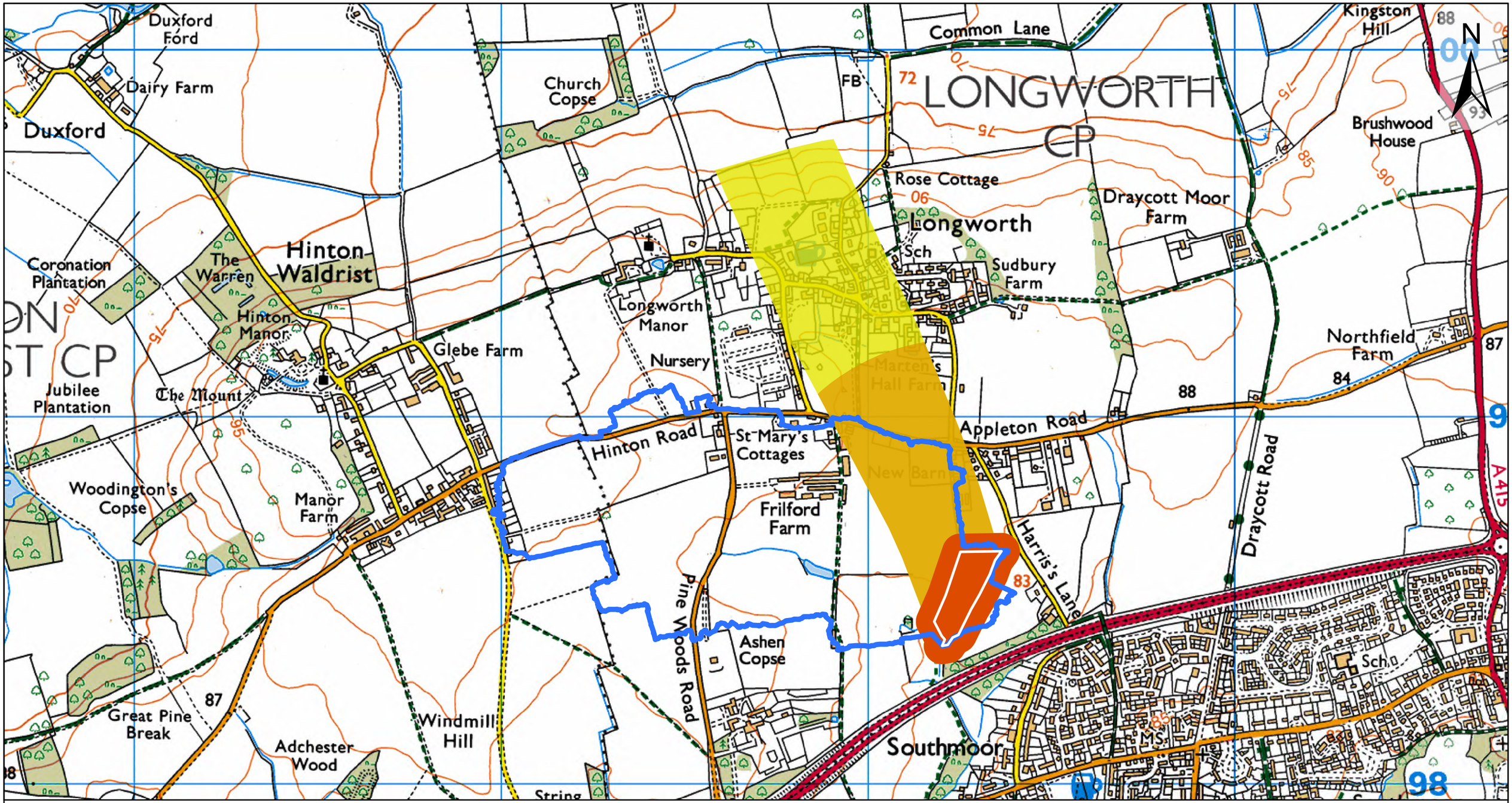

Figure A3.27 Risk zones mapped for Vale Ground (site ref. 27)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:10,000 @A3

0 0.25 0.5 km

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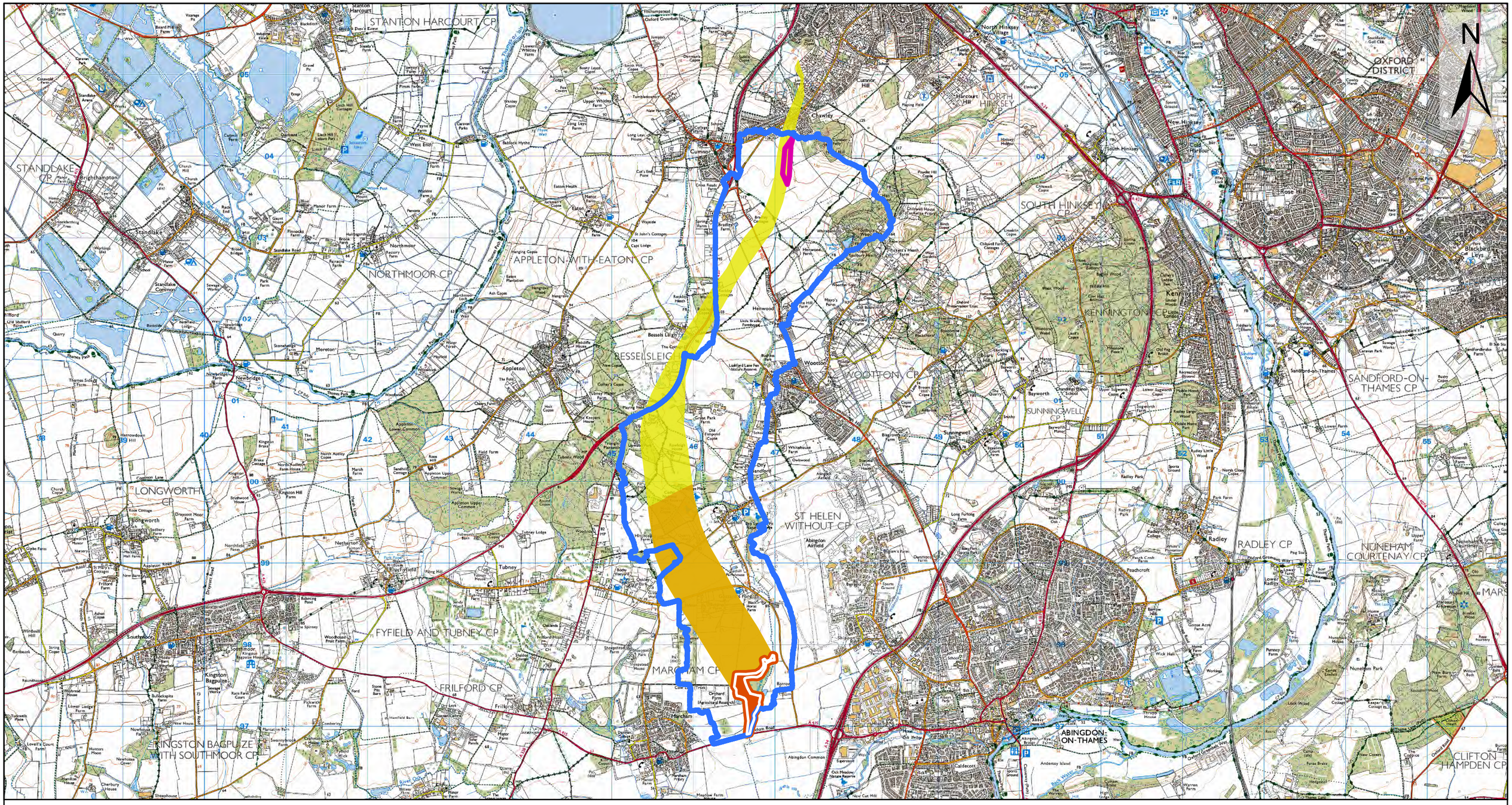

Figure A3.28 Risk zones mapped for Marcham Bog South (site ref. 28)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 2b - Groundwater catchment – confined flow
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:45,000 @A3

0 1 2 km

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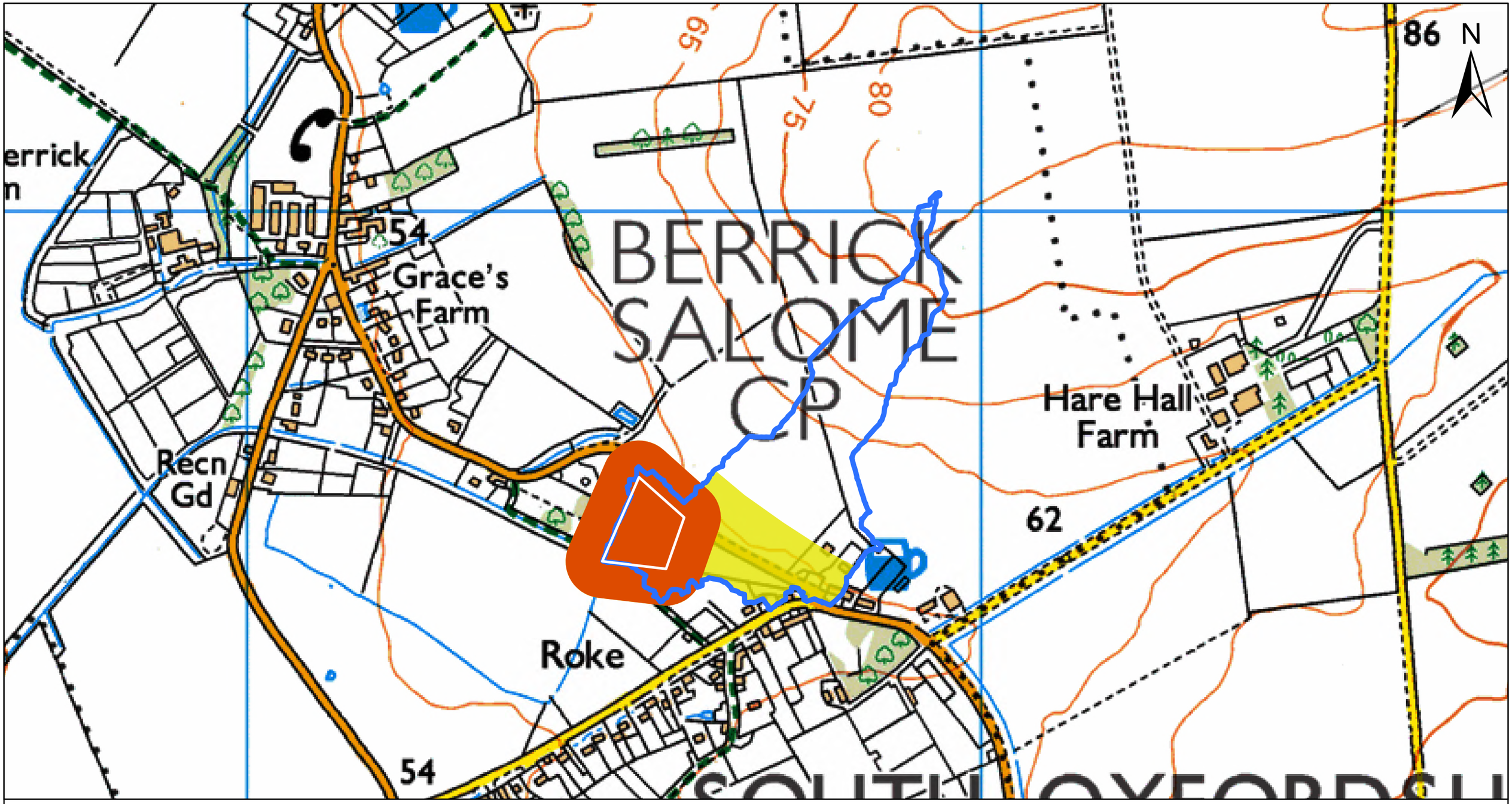

Figure A3.29 Risk zones mapped for Roke Marsh (site ref. 29)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Chiltern Chalk Scarp groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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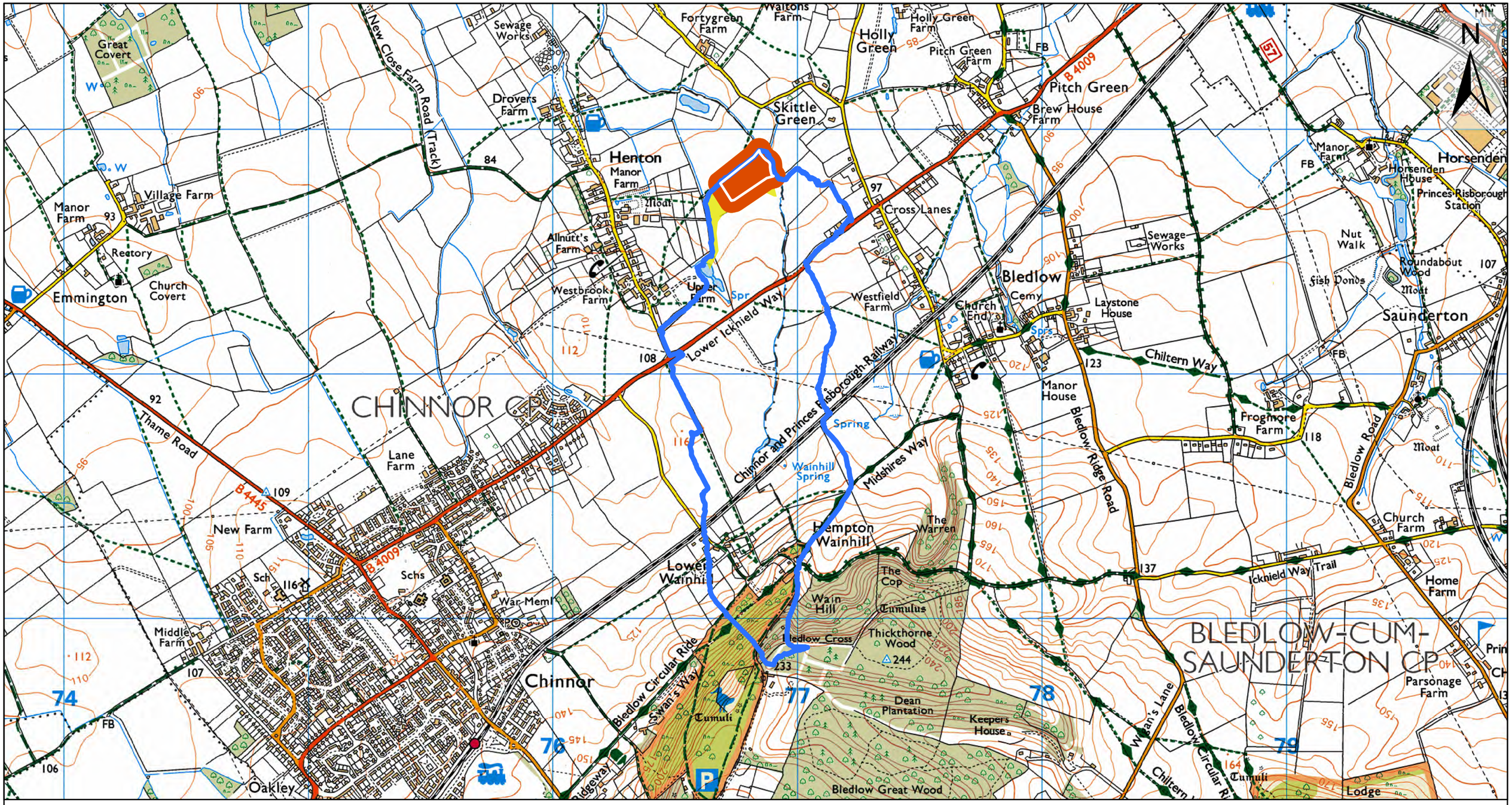

Figure A3.30 Risk zones mapped for Henton Fen (site ref. 30)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Chiltern Chalk Scarp groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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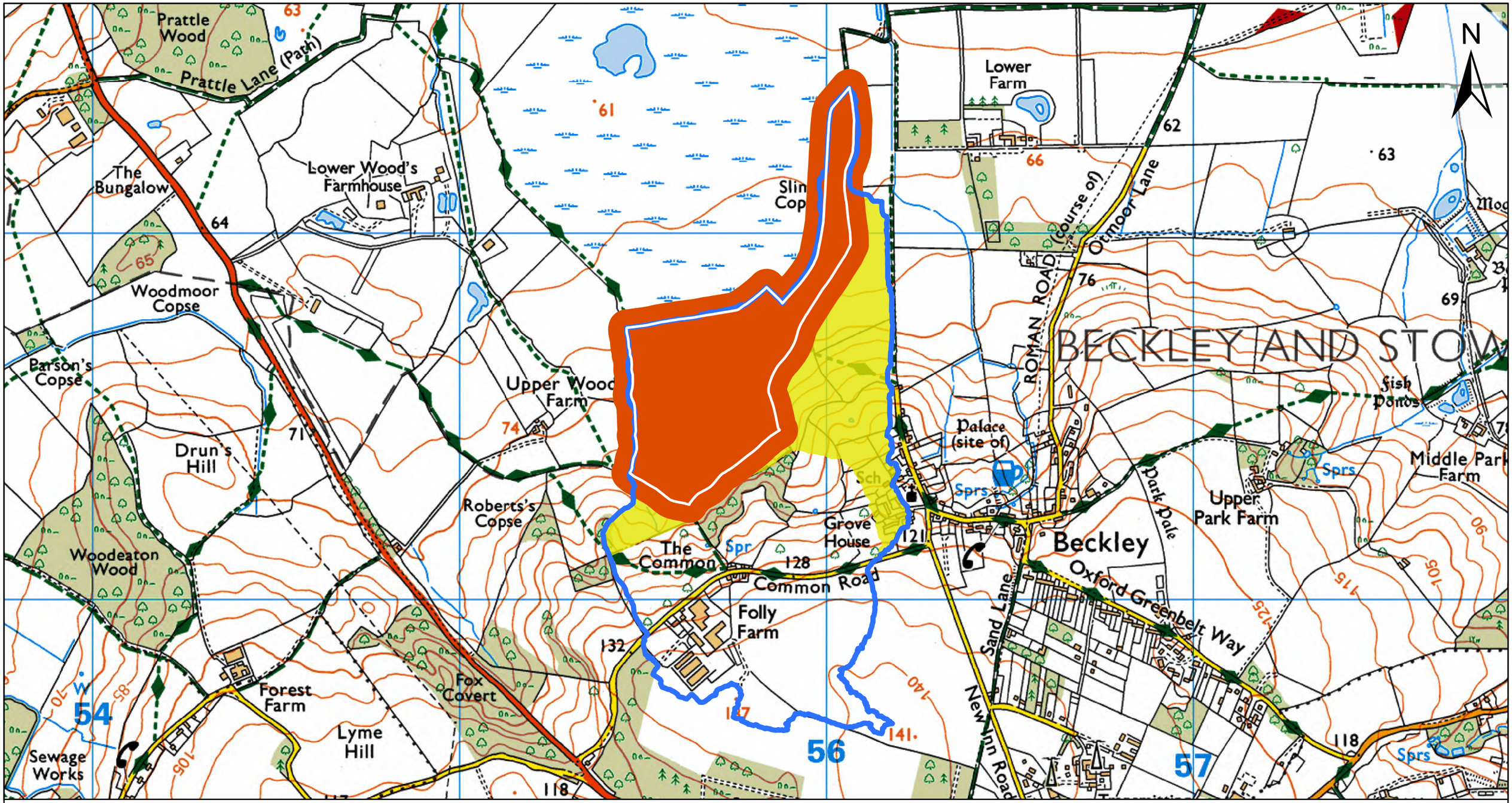

Figure A3.31 Risk zones mapped for Noke Wood (site ref. 31)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:10,000 @A3

0 0.25 0.5 km

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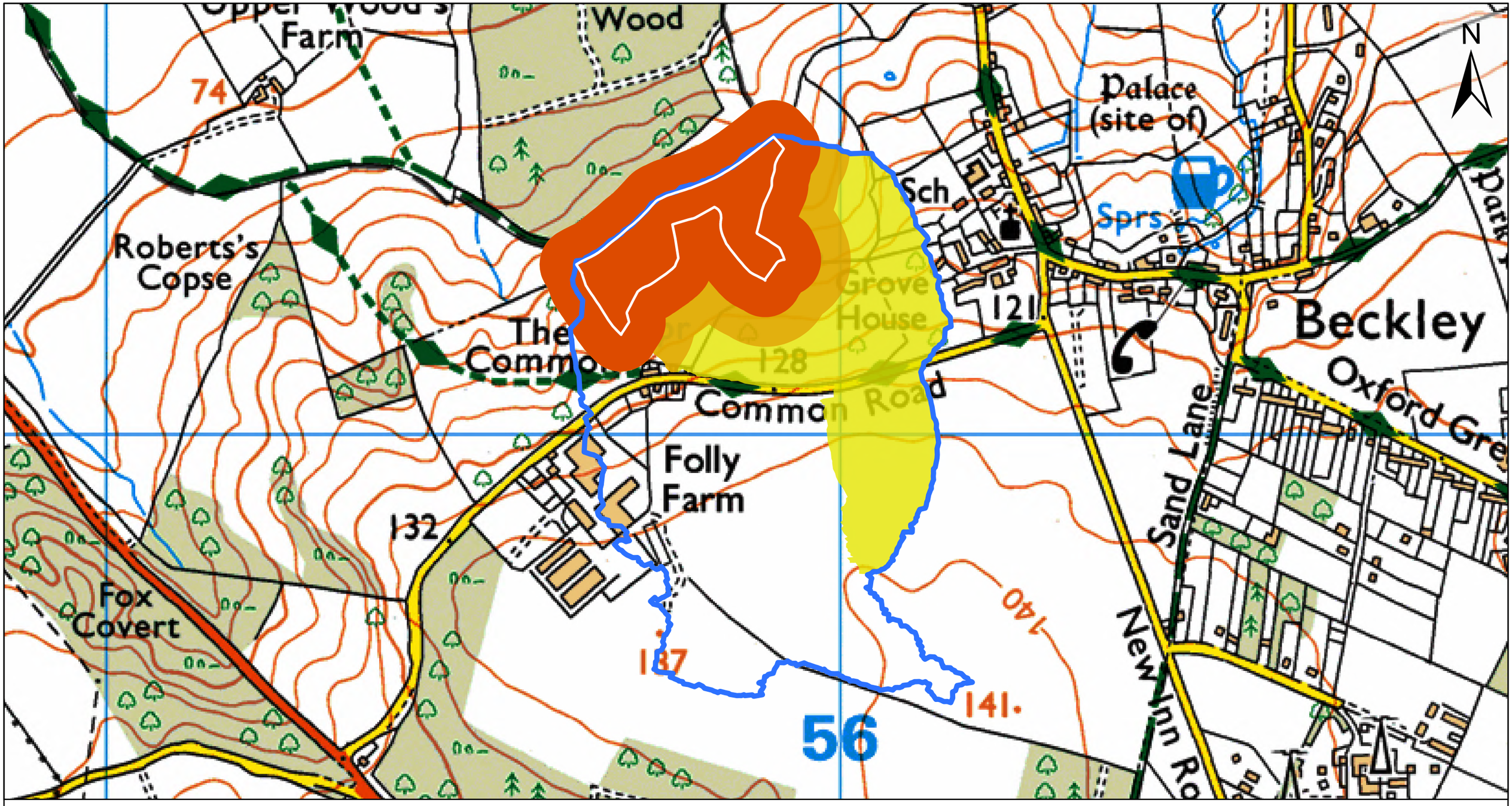

Figure A3.32 Risk zones mapped for Cookes Copse (site ref. 32)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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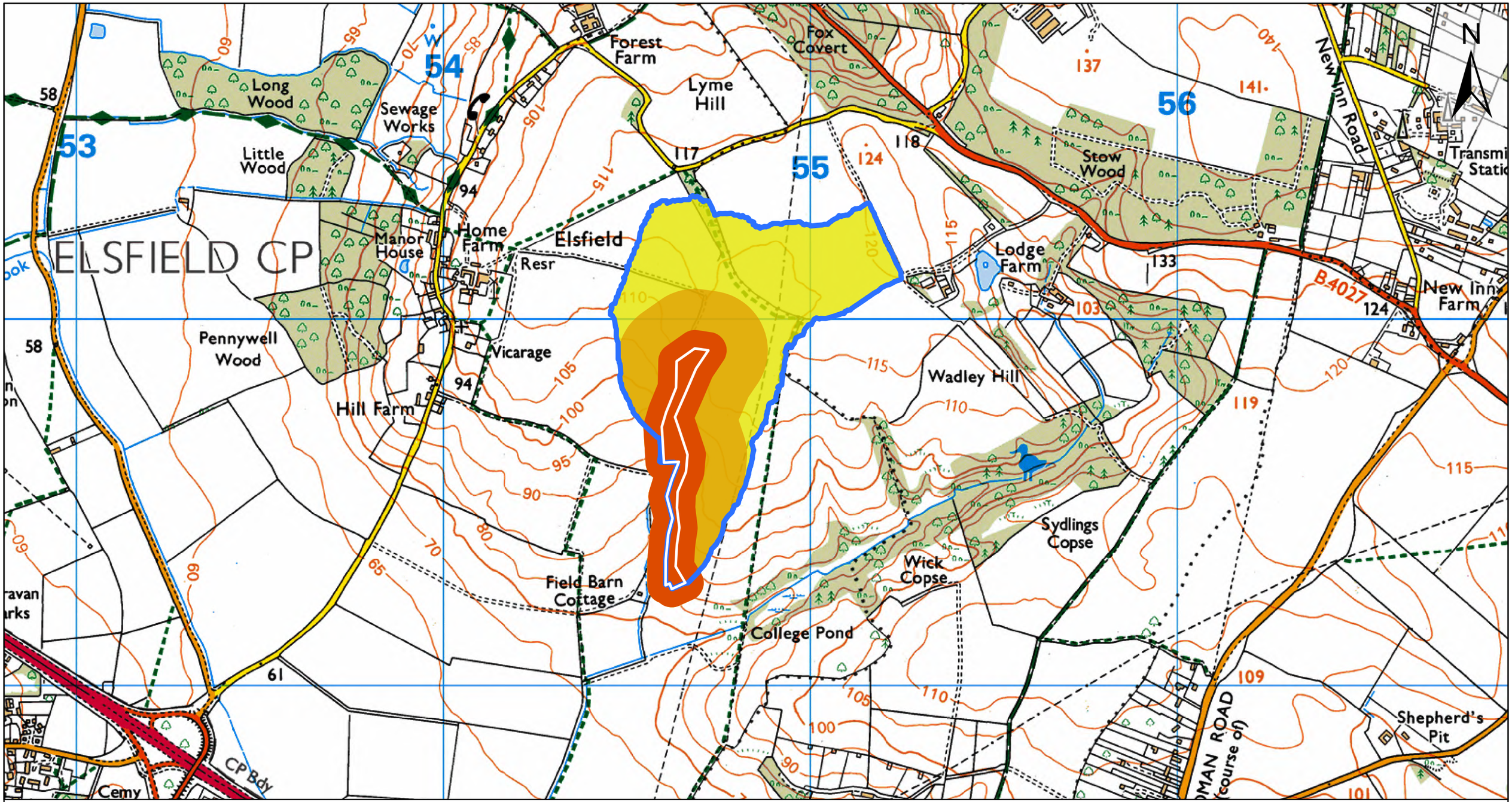

Figure A3.33 Risk zones mapped for The Osiers (site ref. 33)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:10,000 @A3

0 0.25 0.5 km

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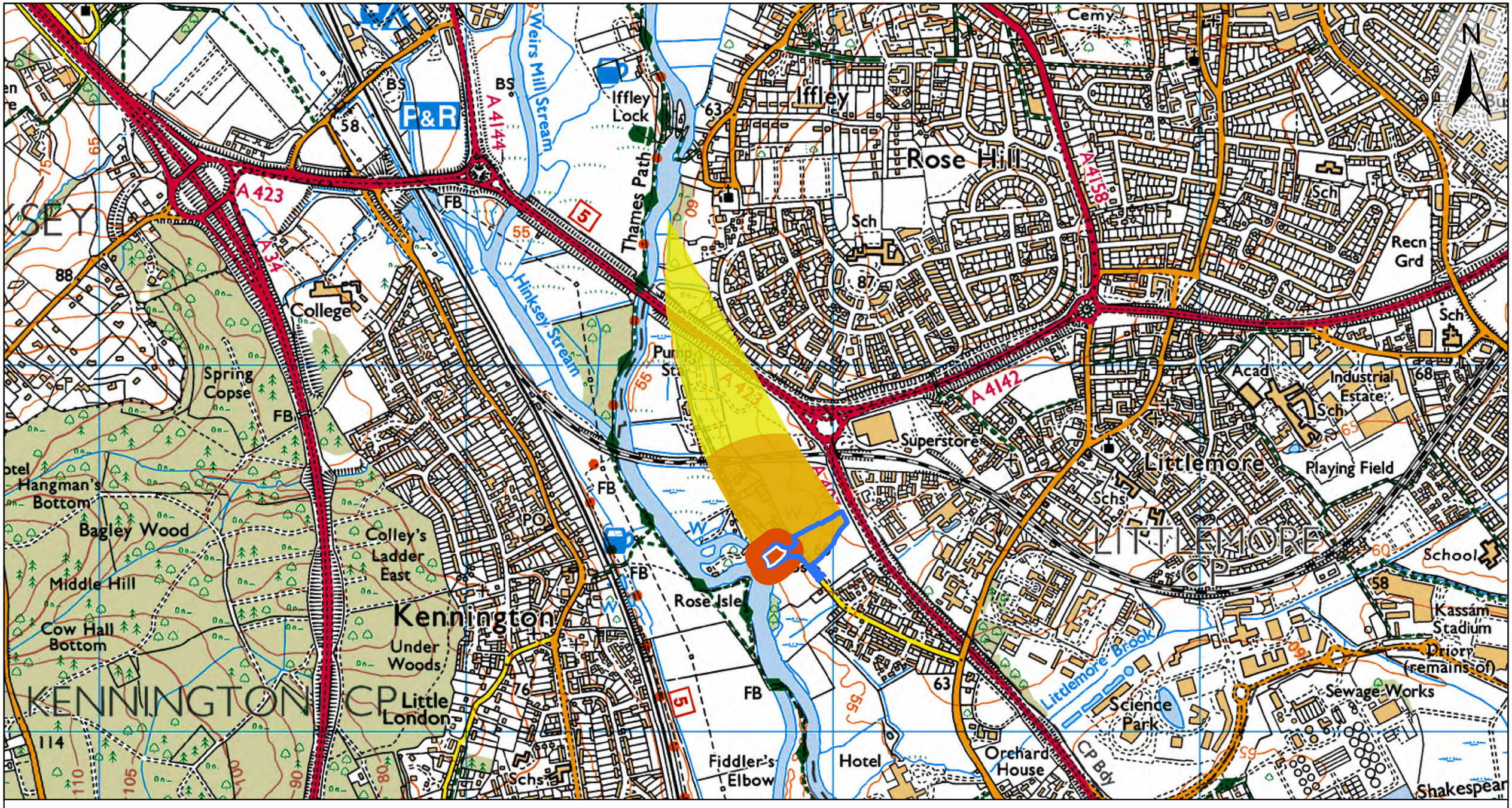

Figure A3.34 Risk zones mapped for Simon's Land (site ref. 34)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:10,000 @A3

0 0.25 0.5 km

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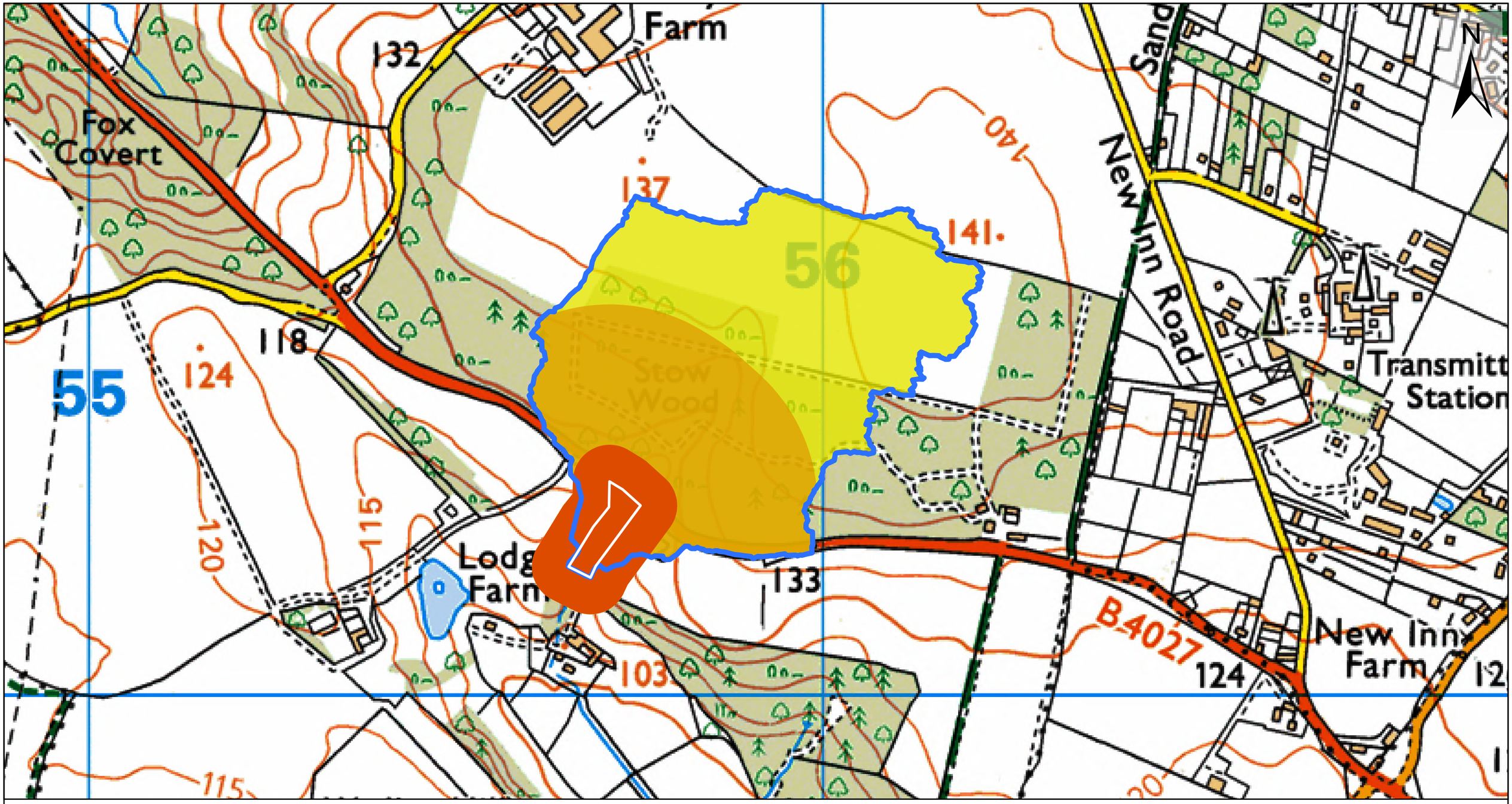

Figure A3.35 Risk zones mapped for Bog Under Stow Wood (site ref. 35)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

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Scale:
1:5,000 @A3

0 0.13 0.25 km

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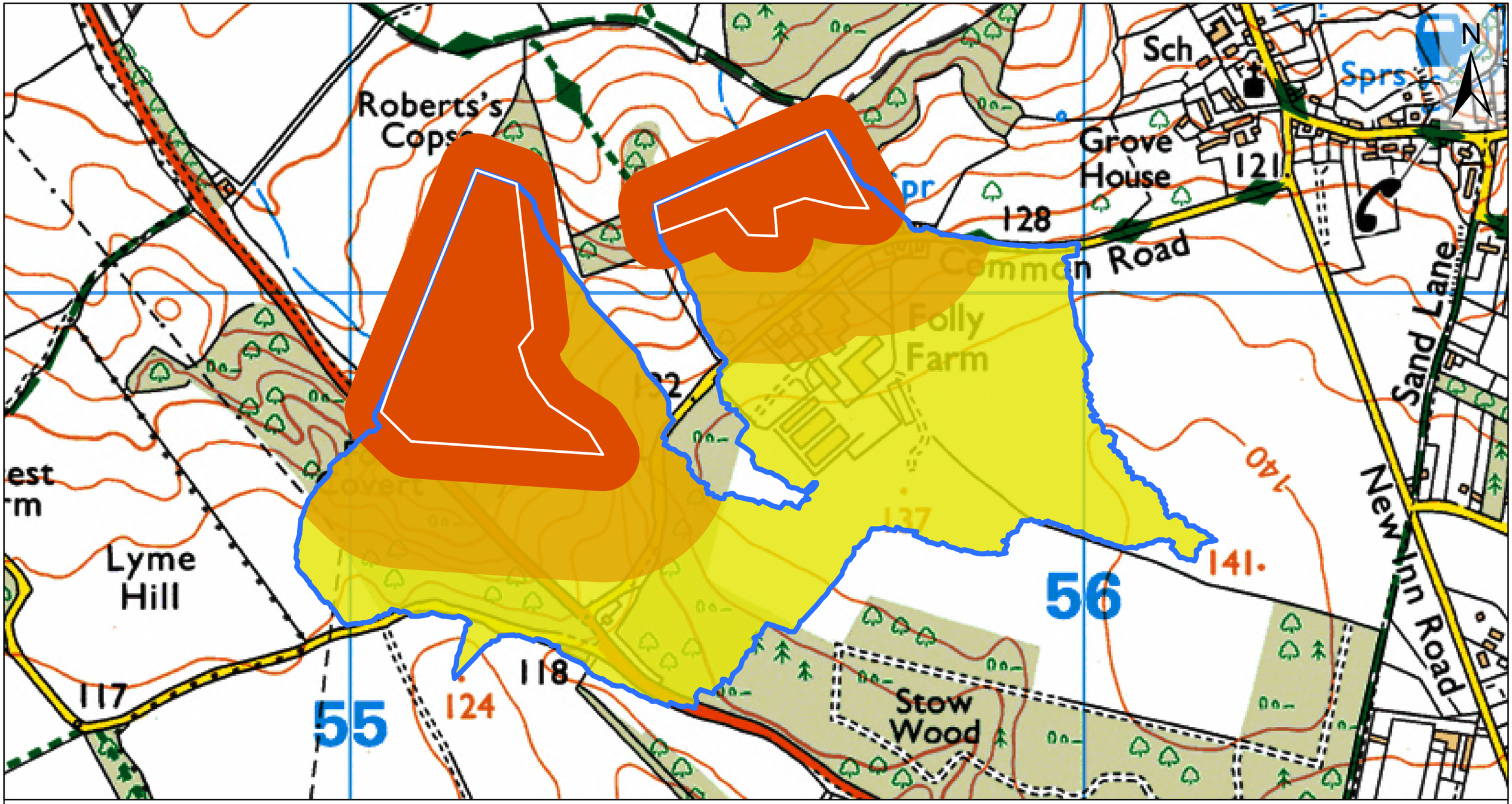

Figure A3.36 Risk zones mapped for Beckley Common (site ref. 36)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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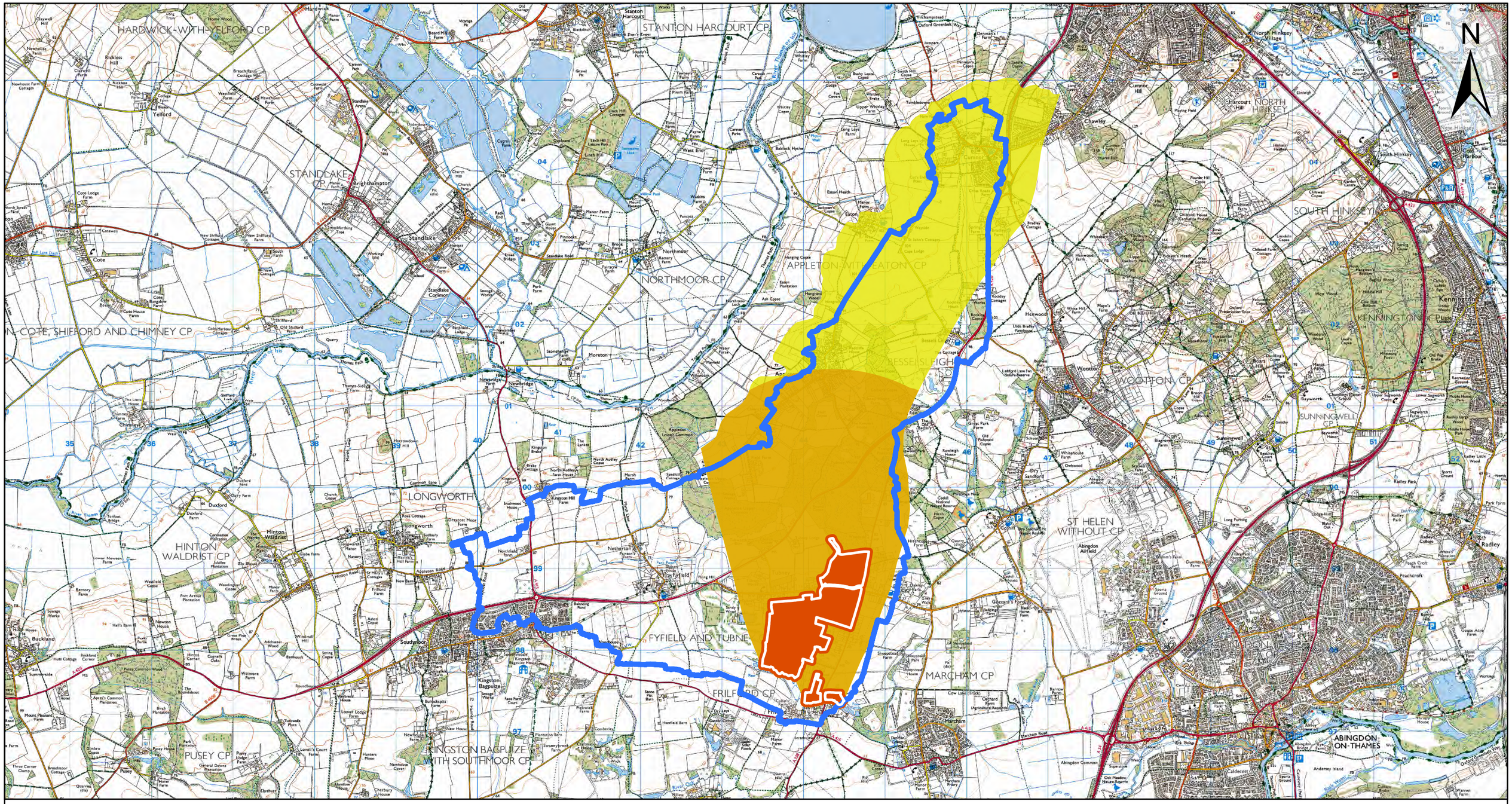

Figure A3.37 Risk zones mapped for Frilford Heath, Ponds and Fens (site ref. 37)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:45,000 @A3

0 1 2 km

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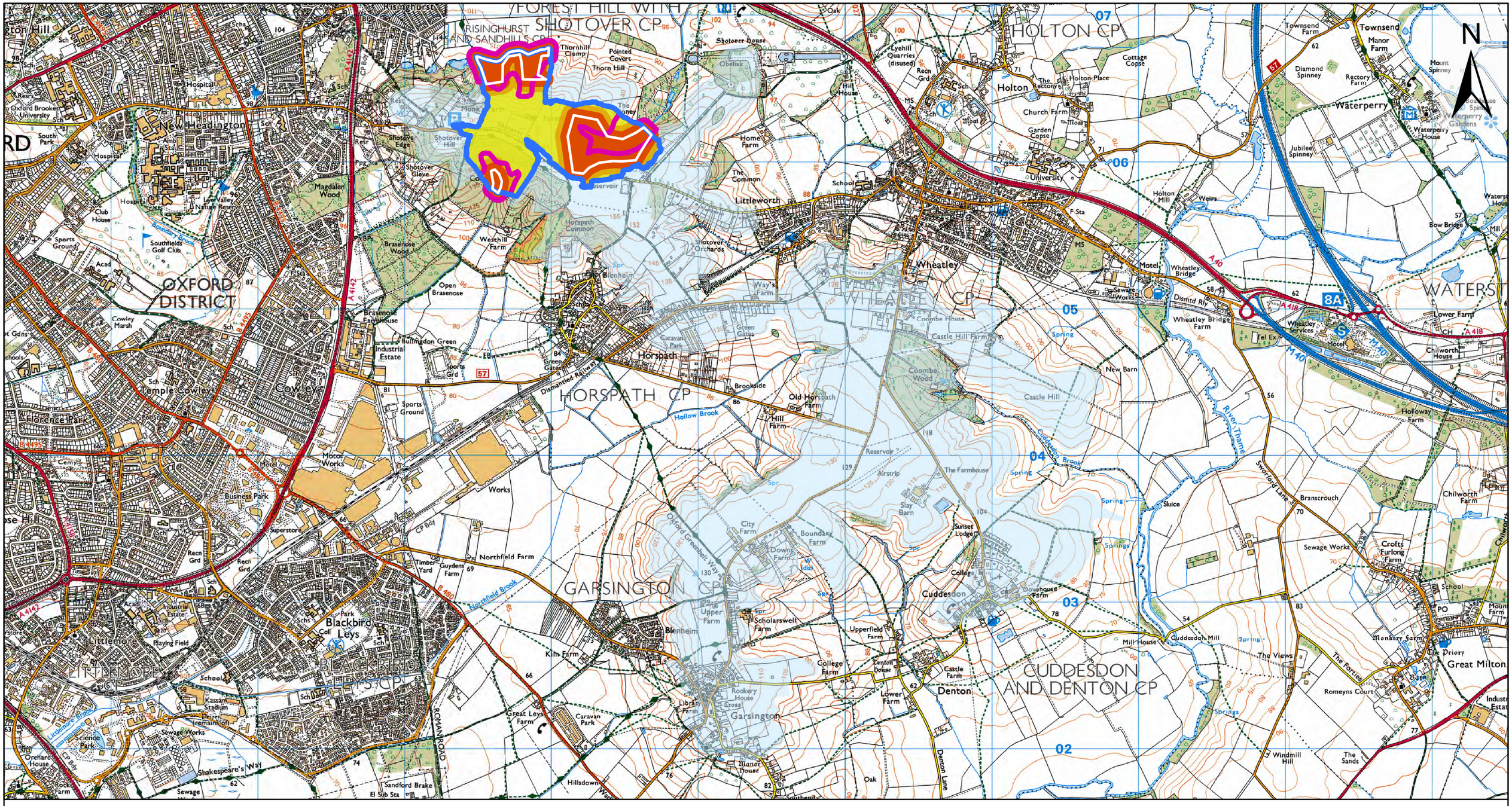

Figure A3.38 Risk zones mapped for Shotover Hill (site ref. 38)

Fen site

Hydrological risk zone

- **Zone 1 - Groundwater body**
- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

Freshwater Habitats Trust

Scale:
1:25,000 @A3

0 0.5 1 km

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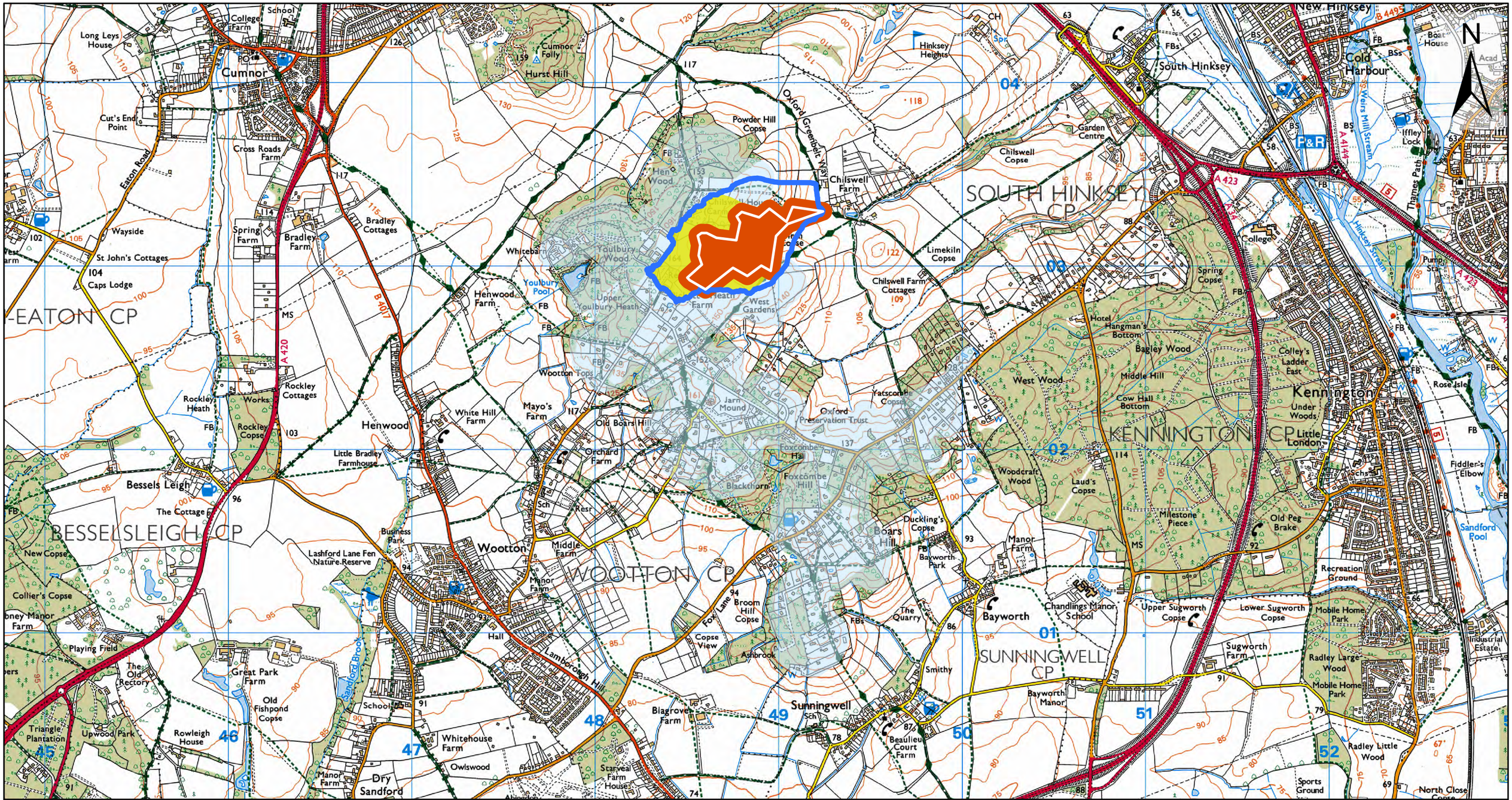

Figure A3.39 Risk zones mapped for Birch Copse (site ref. 39)

Fen site

Hydrological risk zone

- Zone 1 - Groundwater body
- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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Figure A3.40 Risk zones mapped for South of Turf Pits Covert (site ref. 40)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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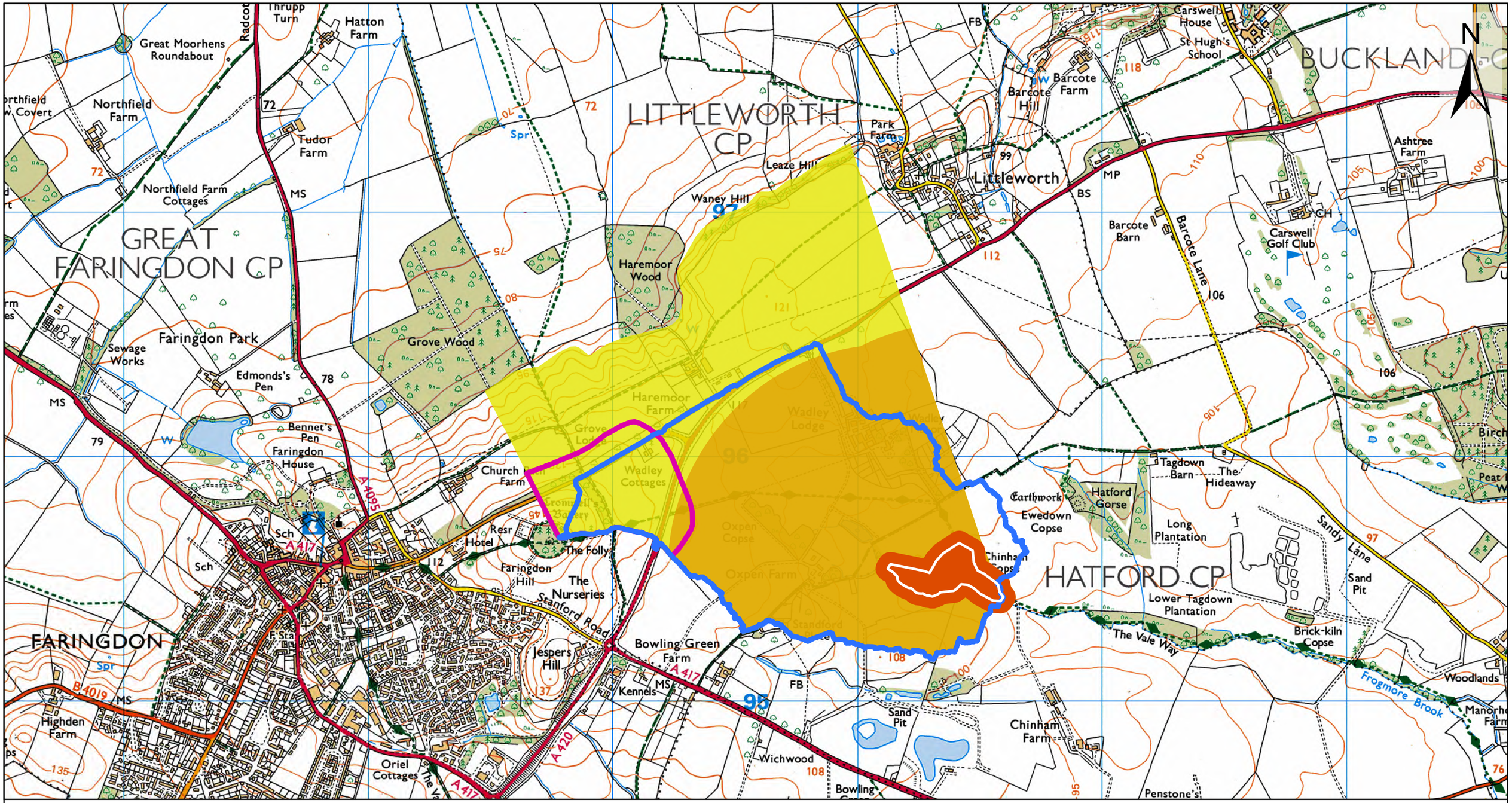

Figure A3.41 Risk zones mapped for Chinham Copse (site ref. 41)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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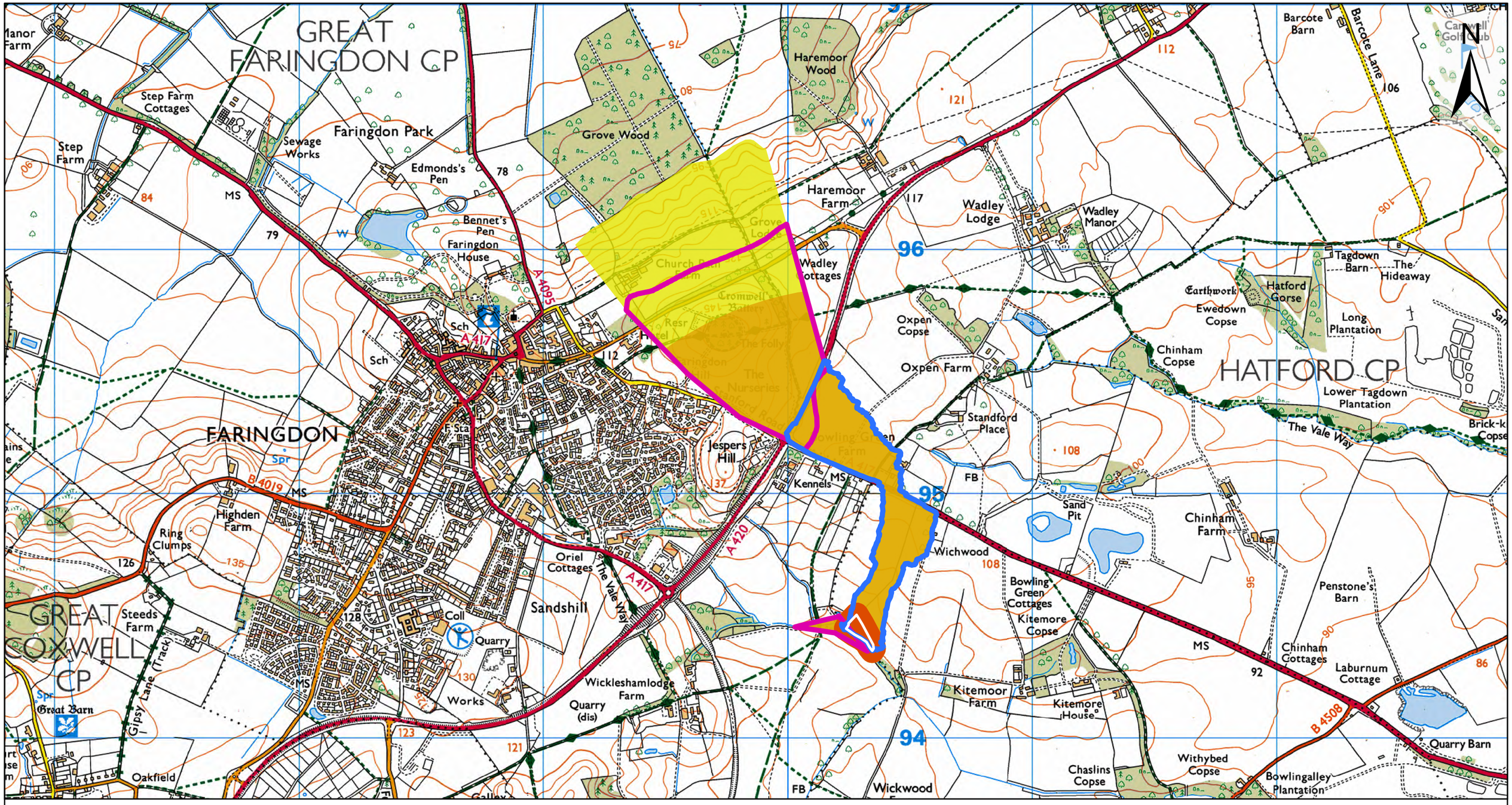

Figure A3.42 Risk zones mapped for Old Pump House (site ref. 42)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 2b - Groundwater catchment – confined flow**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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Figure A3.43 Risk zones mapped for Fyfield (site ref. 43)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:40,000 @A3

0 1 2 km

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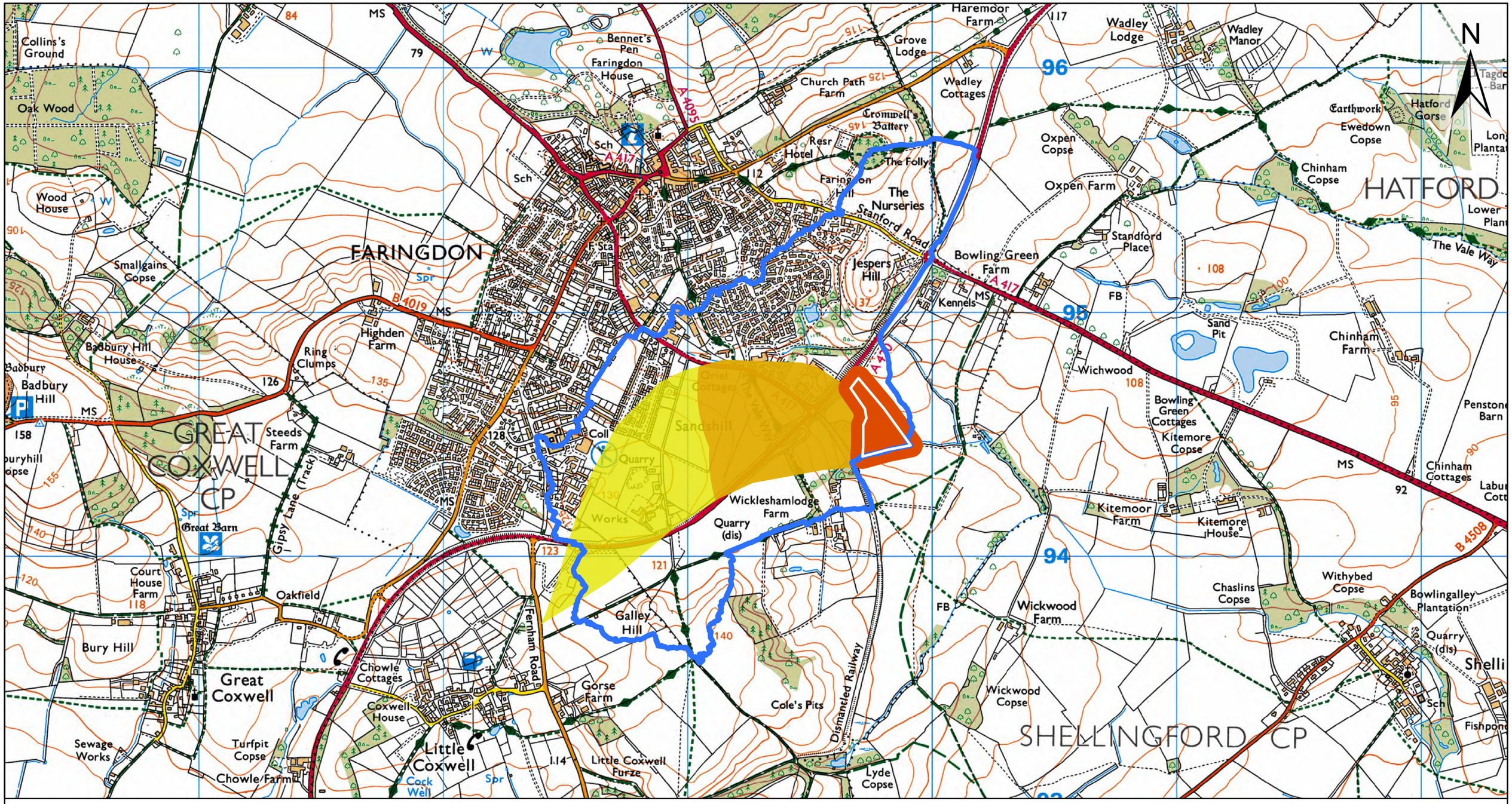

Figure A3.44 Risk zones mapped for Wicklesham Copse (site ref. 44)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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Figure A3.45 Risk zones mapped for Tubney Wood (site ref. 45)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:35,000 @A3

0 0.75 1.5 km

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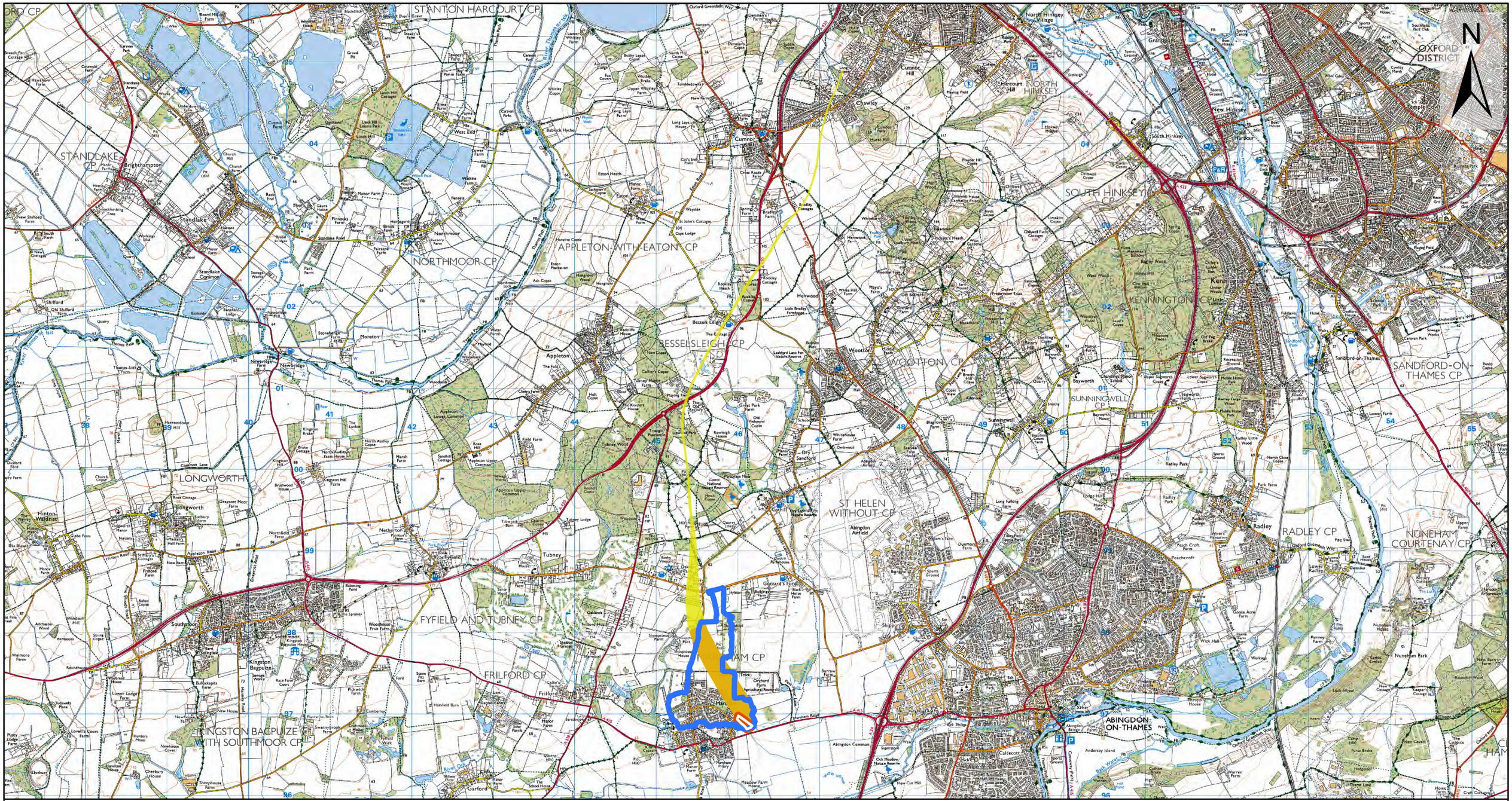

Figure A3.46 Risk zones mapped for Hydes Farm Fen (site ref. 46)

Fen site

Hydrological risk zone

- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

NB this fen site lies over the Shrivenham Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:45,000 @A3

0 1 2 km

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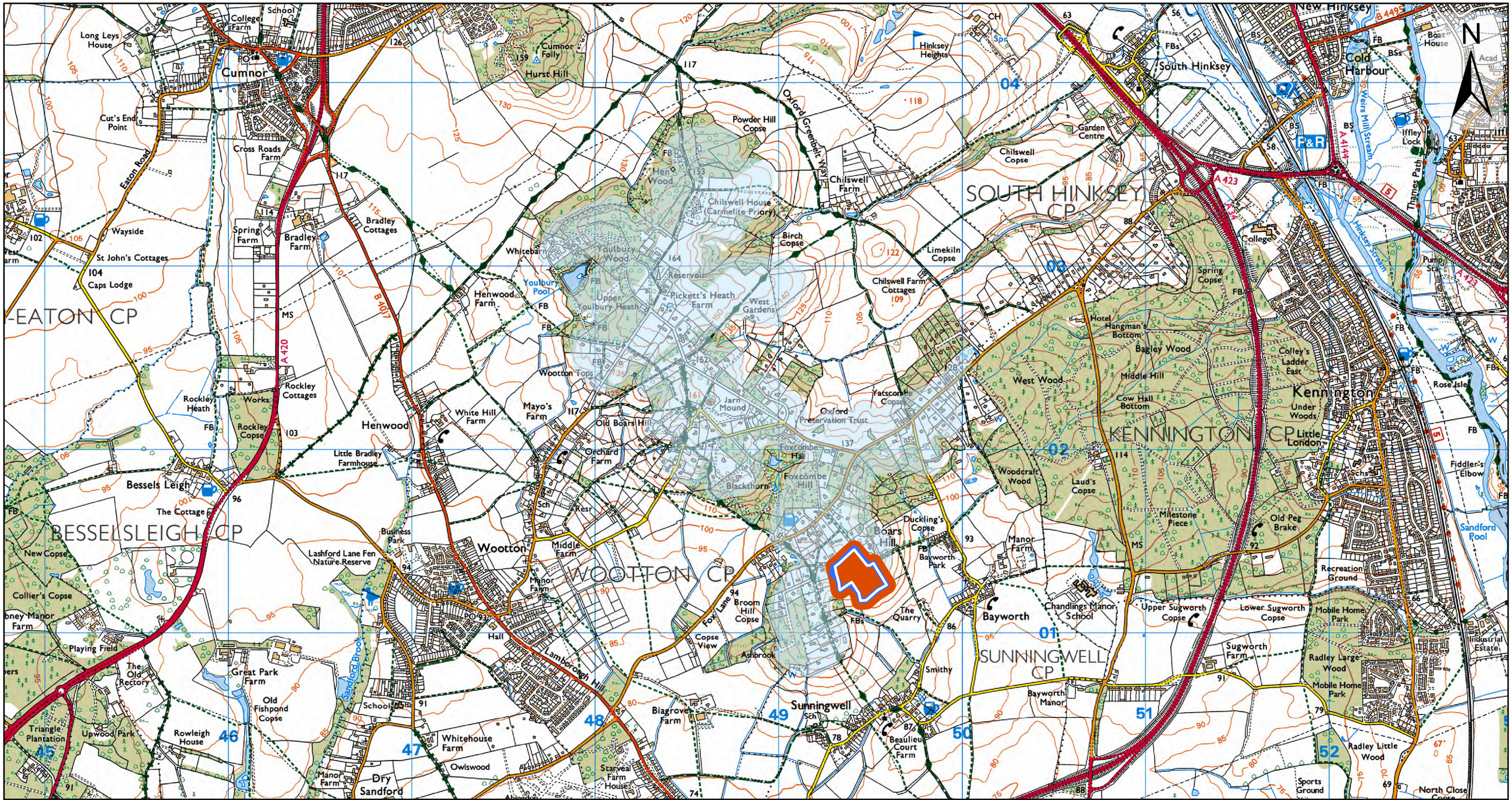

Figure A3.47 Risk zones mapped for Lincombe Lane (site ref. 47)

Fen site

Hydrological risk zone

- **Zone 1 - Groundwater body**
- **Zone 2 - Groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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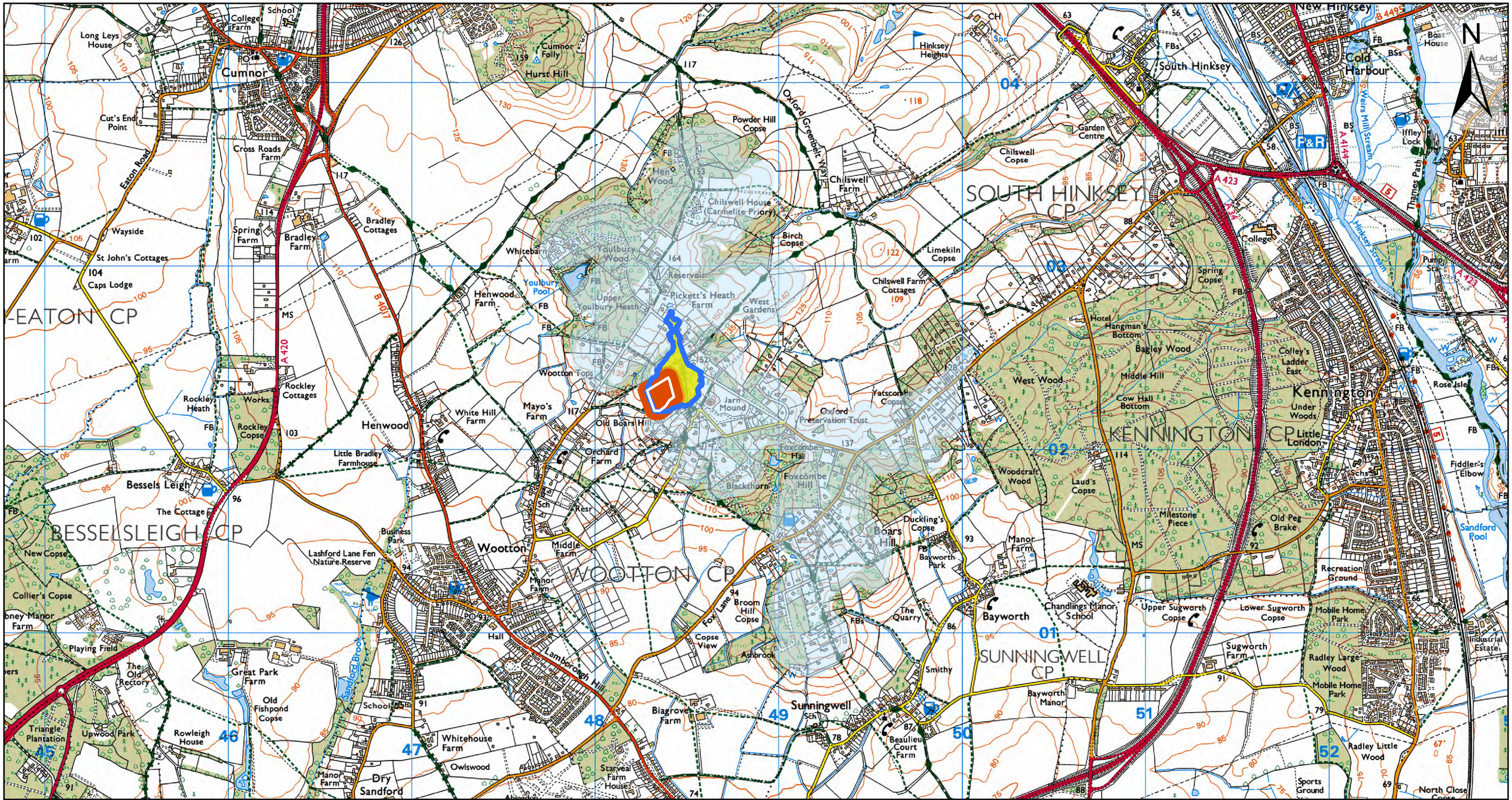

Figure A3.48 Risk zones mapped for Matthew Arnold's Field (site ref. 48)

Fen site

Hydrological risk zone

- **Zone 1 - Groundwater body**
- **Zone 2 - Groundwater catchment**
- **Zone 3 - Sub-groundwater catchment**
- **Zone 4 - 50 m site buffer**
- **Zone 5 - Surface water catchment**

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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Figure A3.49 Risk zones mapped for Old Berkley Golf Course Springs (site ref. 49)

Fen site

Hydrological risk zone

- Zone 1 - Groundwater body
- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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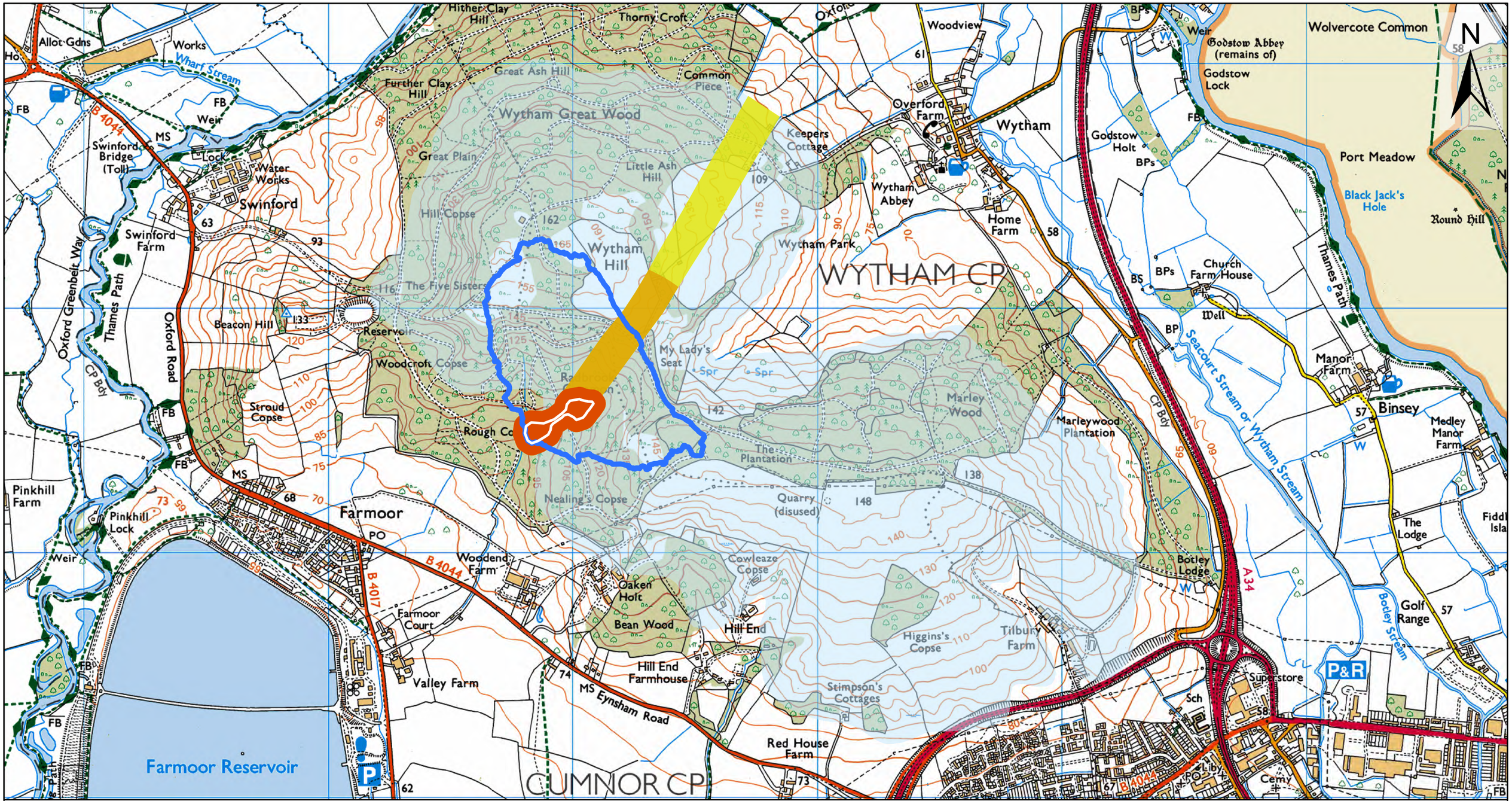

Figure A3.50 Risk zones mapped for Radbrook Common (site ref. 50)

Fen site

Hydrological risk zone

- Zone 1 - Groundwater body
- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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Figure A3.51 Risk zones mapped for Lye Valley (site ref. 51)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 2b - Groundwater catchment – confined flow
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:15,000 @A3

0 0.38 0.75 km

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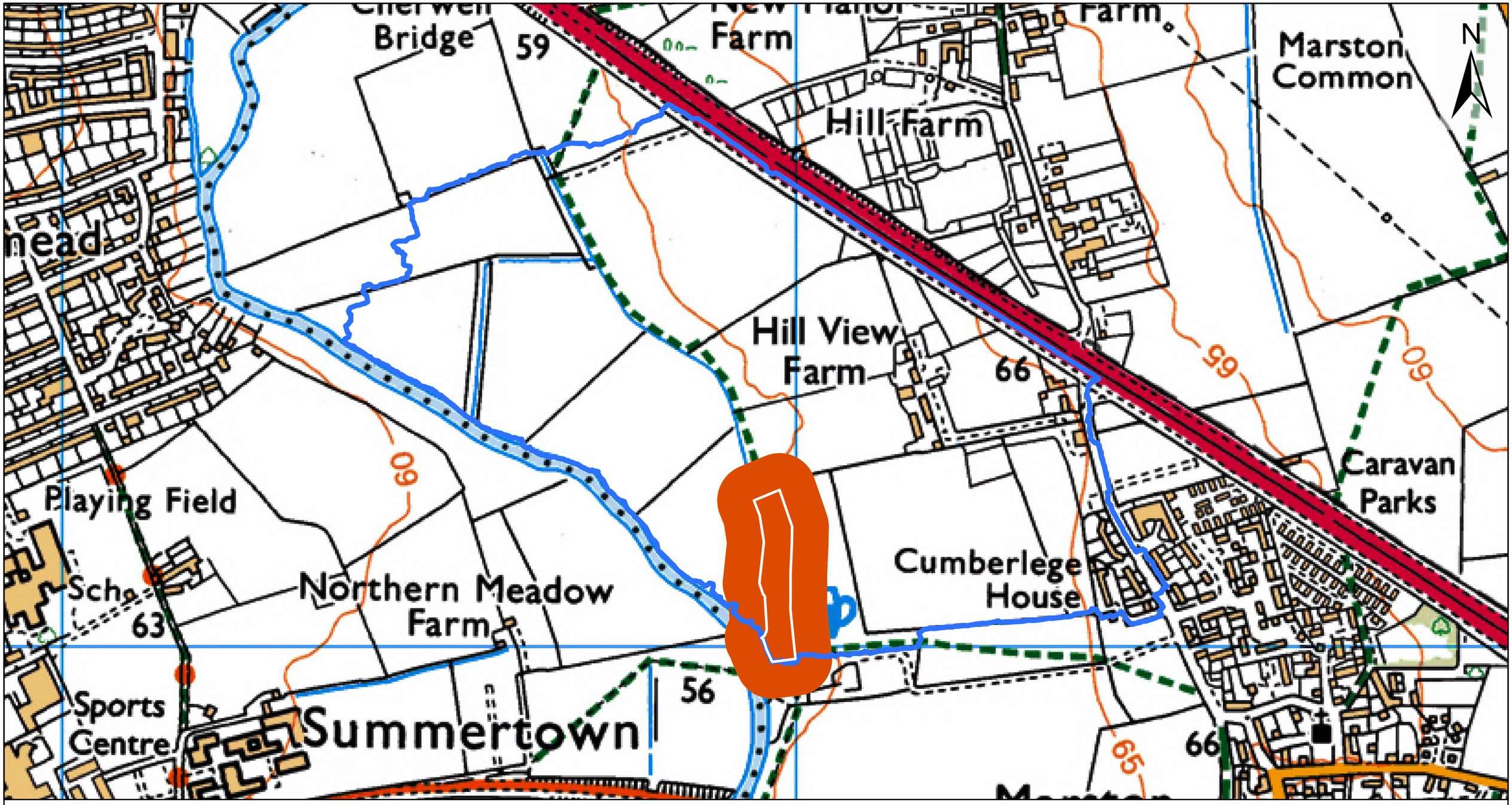

Figure A3.52 Risk zones mapped for Almonds Farm Bank (site ref. 52)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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Figure A3.53 Risk zones mapped for Dunstan Park (site ref. 53)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Headington Corallian groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:5,000 @A3

0 0.13 0.25 km

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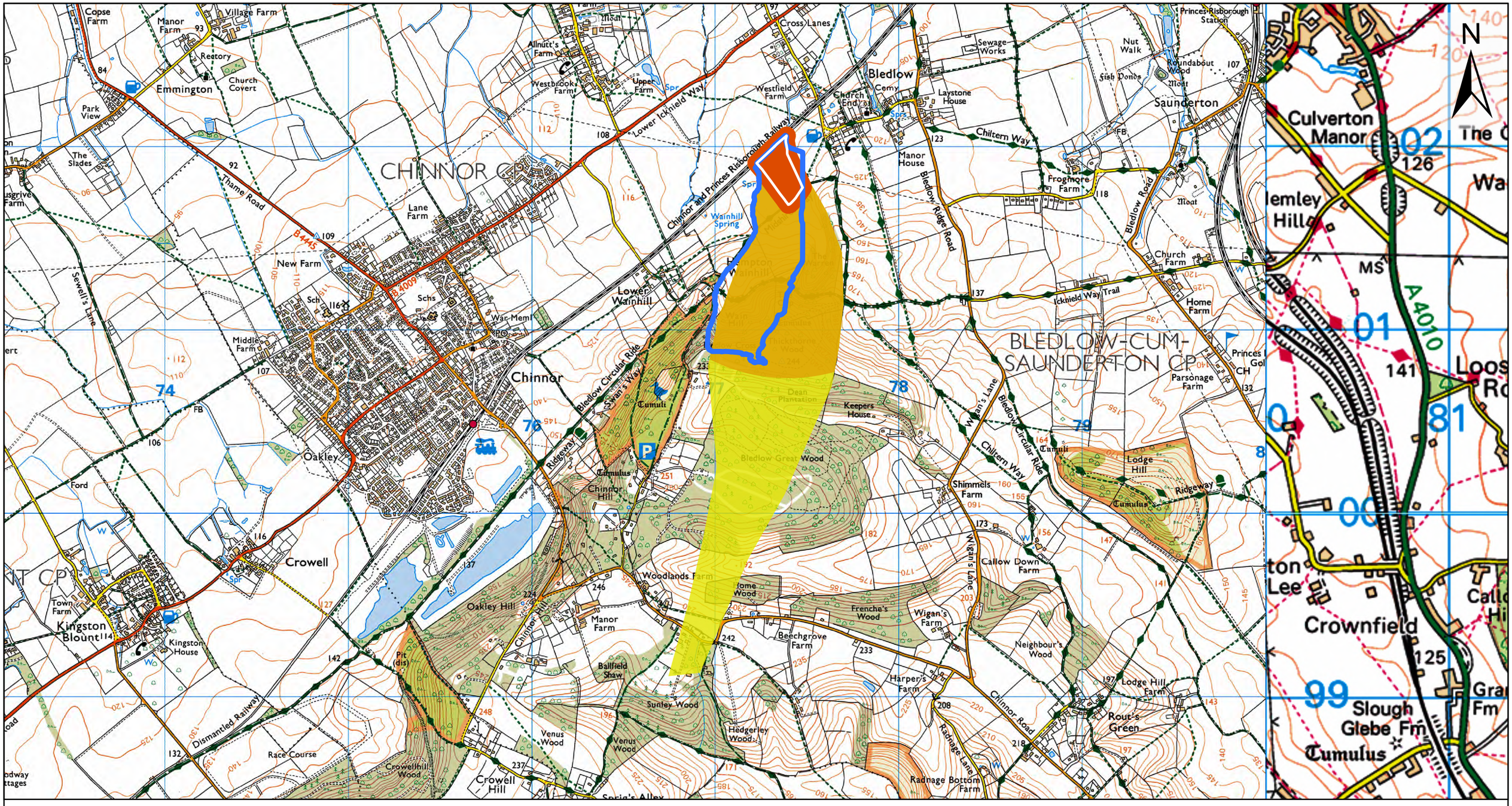

Figure A3.54 Risk zones mapped for Bledlow Fen (site ref. 54)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

NB this fen site lies over the Chiltern Chalk Scarp groundwater body, which is too large to show as Zone 1 in this figure. Please see Figure A4.1.

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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Figure A3.55 Risk zones mapped for Little Bradfield Farm (site ref. 55)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 2b - Groundwater catchment – confined flow
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

Freshwater Habitats Trust

Scale:
1:20,000 @A3

0 0.5 1 km

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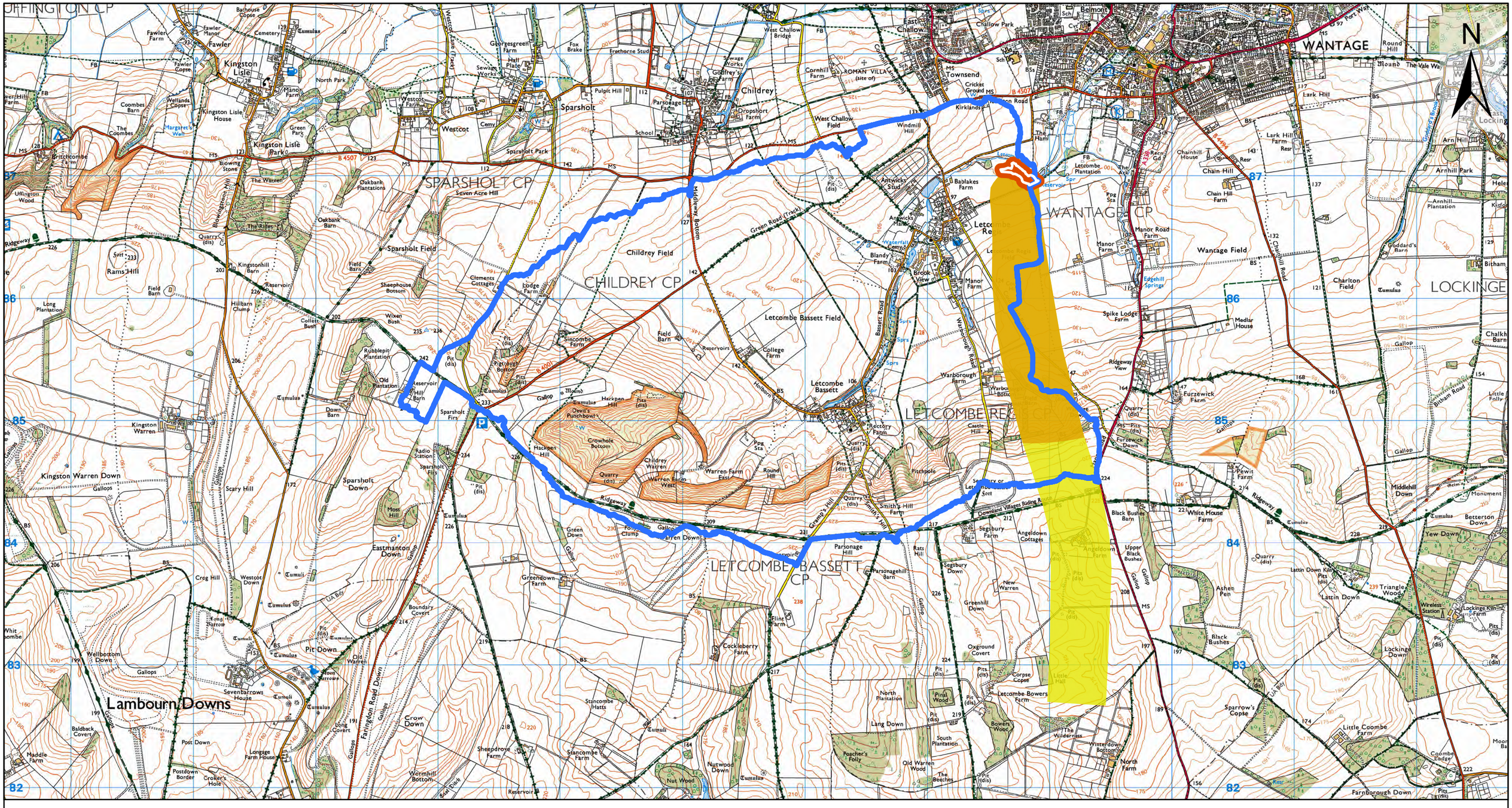

Figure A3.56 Risk zones mapped for Letcombe Fen (site ref. 56)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

Freshwater Habitats Trust

Scale:
1:30,000 @A3

0 0.75 1.5 km

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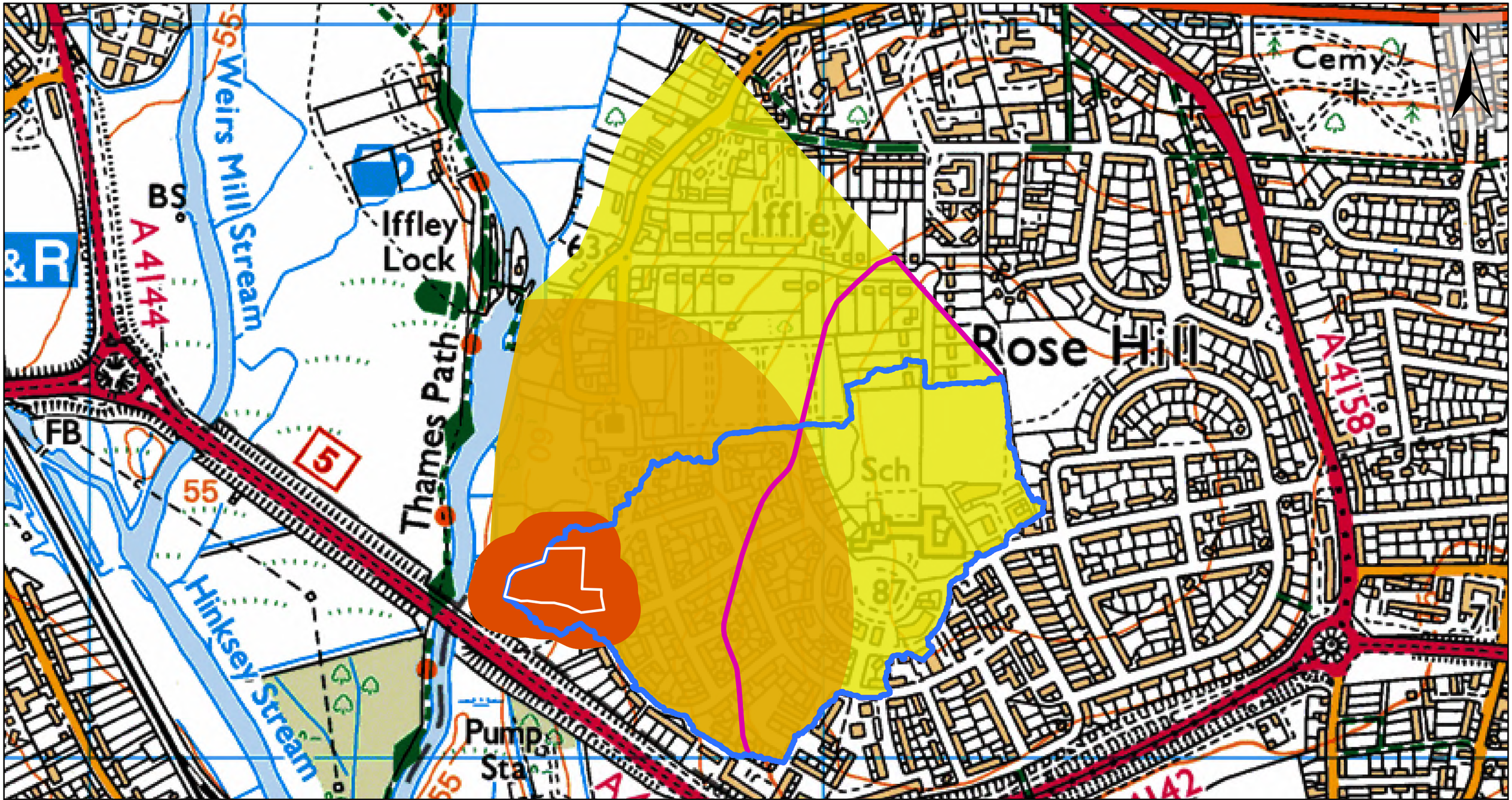


Figure A3.57 Risk zones mapped for Rivermead (site ref. 57)

Fen site

Hydrological risk zone

- Zone 2 - Groundwater catchment
- Zone 2b - Groundwater catchment – confined flow
- Zone 3 - Sub-groundwater catchment
- Zone 4 - 50 m site buffer
- Zone 5 - Surface water catchment

Freshwater Habitats Trust

Scale:
1:5,000 @A3

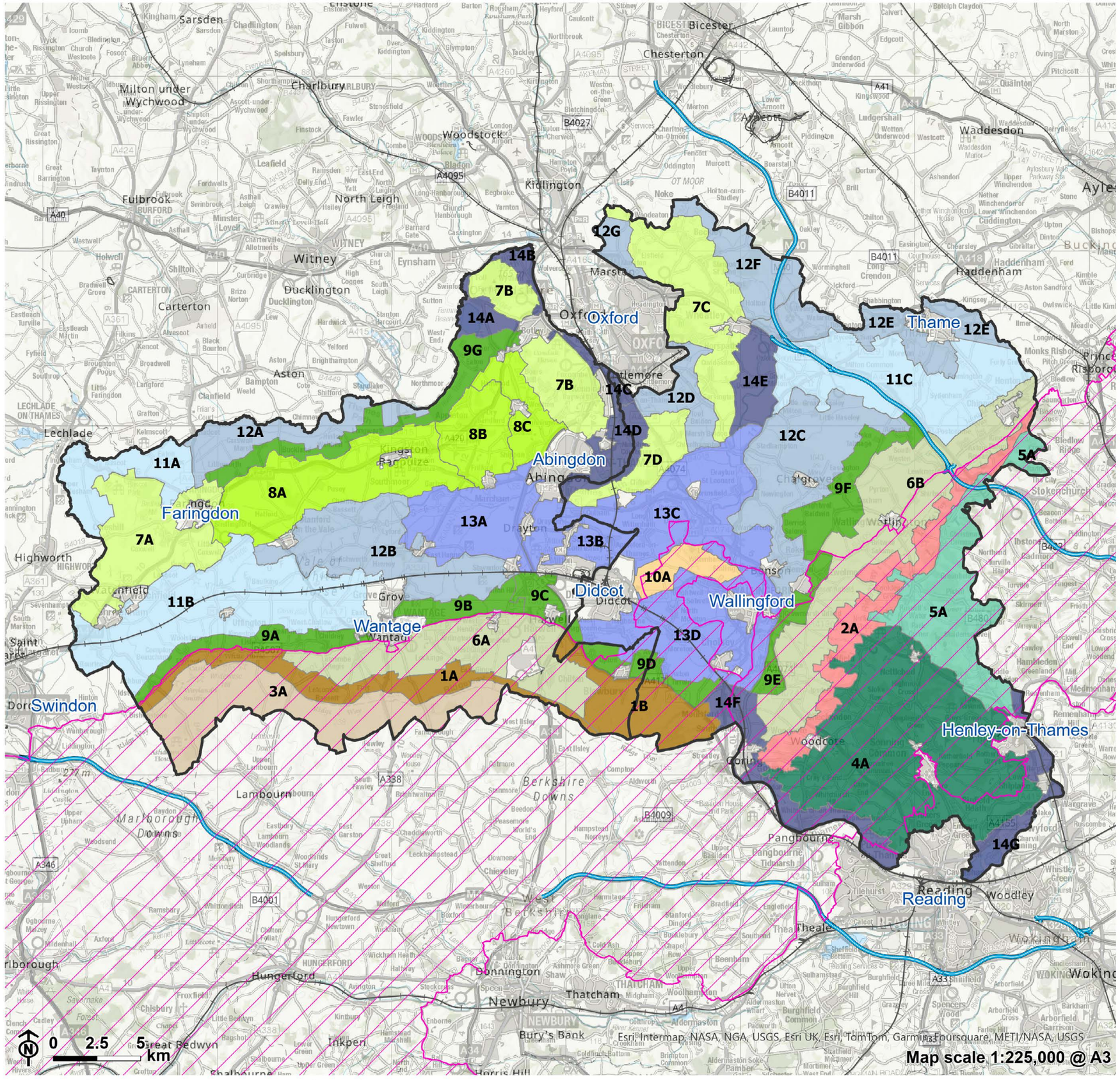
0 0.13 0.25 km

Maps relating to Policy NH6: Landscape

Landscape Character Assessment
South Oxfordshire and Vale of White Horse Councils

LUC

Figure 5.1: Landscape Character Type Overview



- District boundary
- National Landscape
- Motorway
- Railway

Landscape Character Type

- 1: Open Chalk Escarpment and Upper Slopes
- 2: Wooded Chalk Escarpment
- 3: Open Chalk Dipslope
- 4: Wooded Chalk Plateau and Valleys
- 5: Wooded Chalk Ridges and Valleys
- 6: Chalk Escarpment Footslopes
- 7: Ridge Hilltops
- 8: Ridge Slope
- 9: Vale Edge Slopes
- 10: Lower Vale Hills
- 11: Upper Vale
- 12: Middle Vale
- 13: Lower Vale
- 14: River Valley

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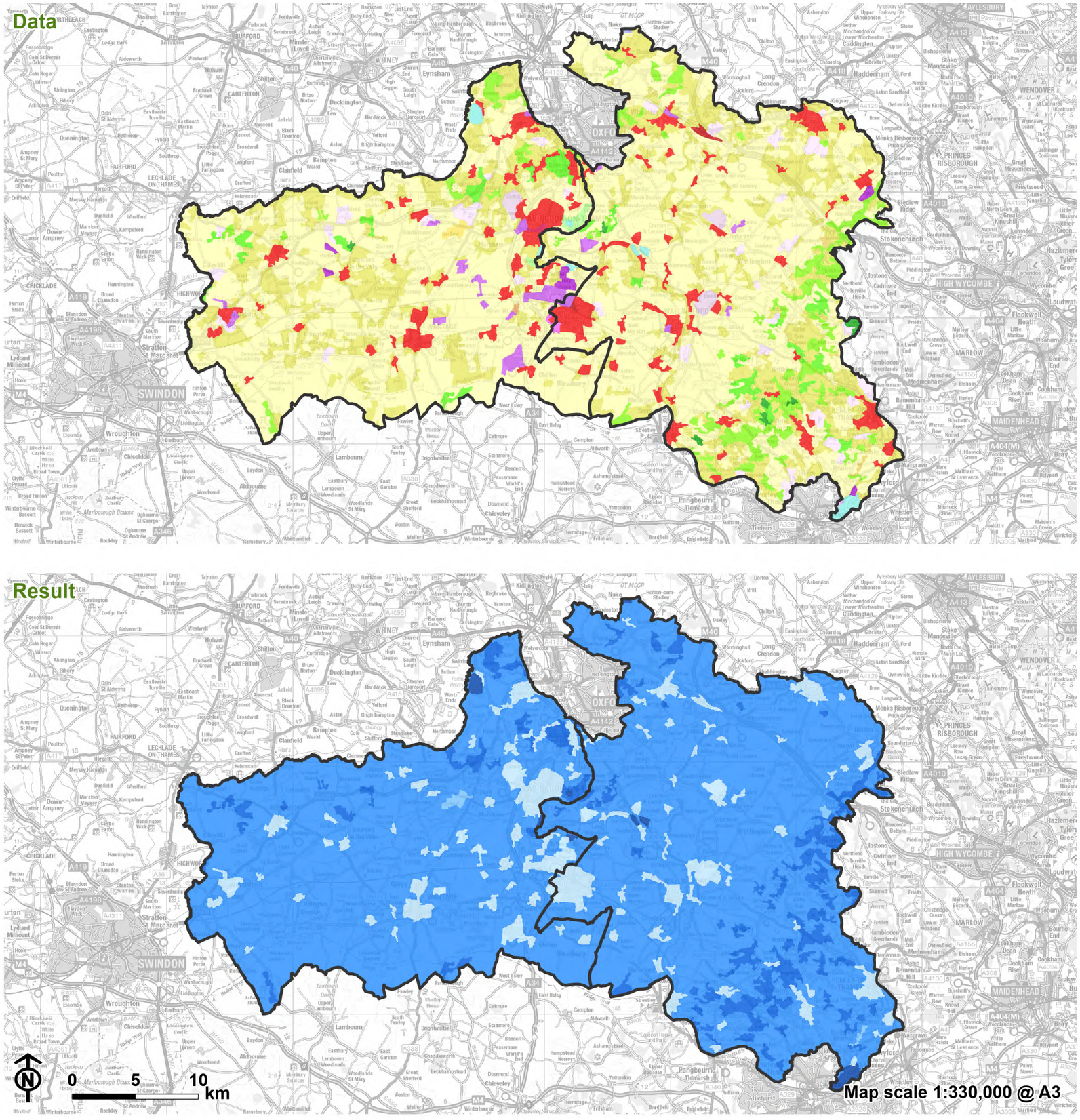
Maps relating to Policy NH7: Tranquillity

Figure 3.1: P01 Naturalness of land cover - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Corine Land Cover 2018

- 111: Continuous urban fabric
- 112: Discontinuous urban fabric
- 121: Industrial or commercial units
- 122: Road and rail networks and associated land
- 124: Airports
- 131: Mineral extraction sites
- 133: Construction sites
- 141: Green urban areas
- 142: Sport and leisure facilities
- 211: Non-irrigated arable land
- 222: Fruit trees and berry plantations
- 231: Pastures
- 242: Complex cultivation patterns
- 243: Land principally occupied by agriculture, with significant areas of natural vegetation
- 311: Broad-leaved forest
- 312: Coniferous forest
- 313: Mixed forest
- 322: Moors and heathland
- 411: Inland marshes
- 512: Water bodies

Result

Score P01

- 0 - Lowest contribution to tranquillity
- 1
- 2
- 3
- 4 - highest contribution to tranquillity

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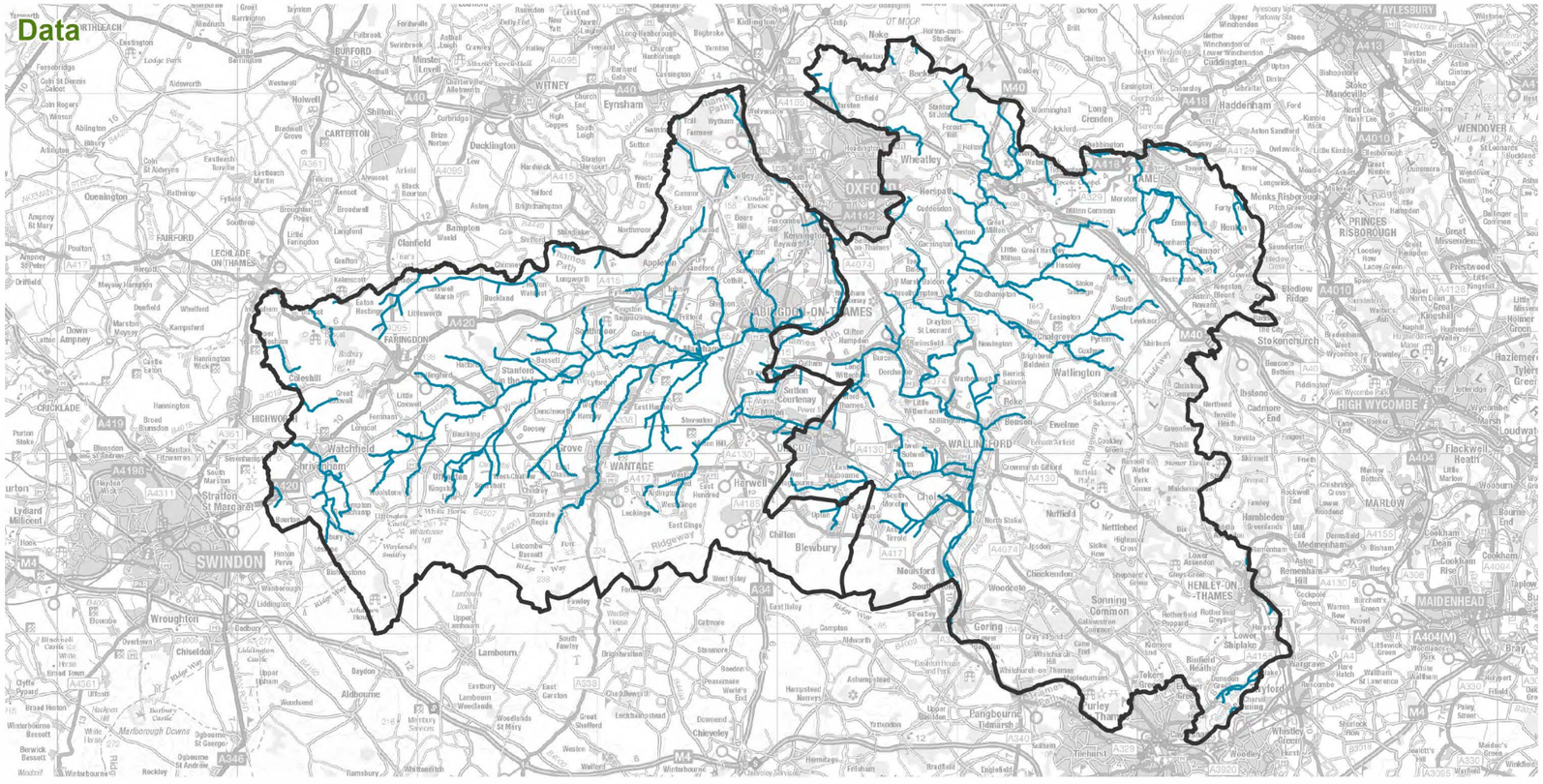
Tranquillity Assessment
South Oxfordshire and Vale of White Horse Councils

LUC

Figure 3.3: P02 Seeing streams, rivers and canals - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Watercourse

Result

Score P02

- 0 - lowest contribution to tranquillity
- 1
- 2
- 3
- 4
- 5 - highest contribution to tranquillity

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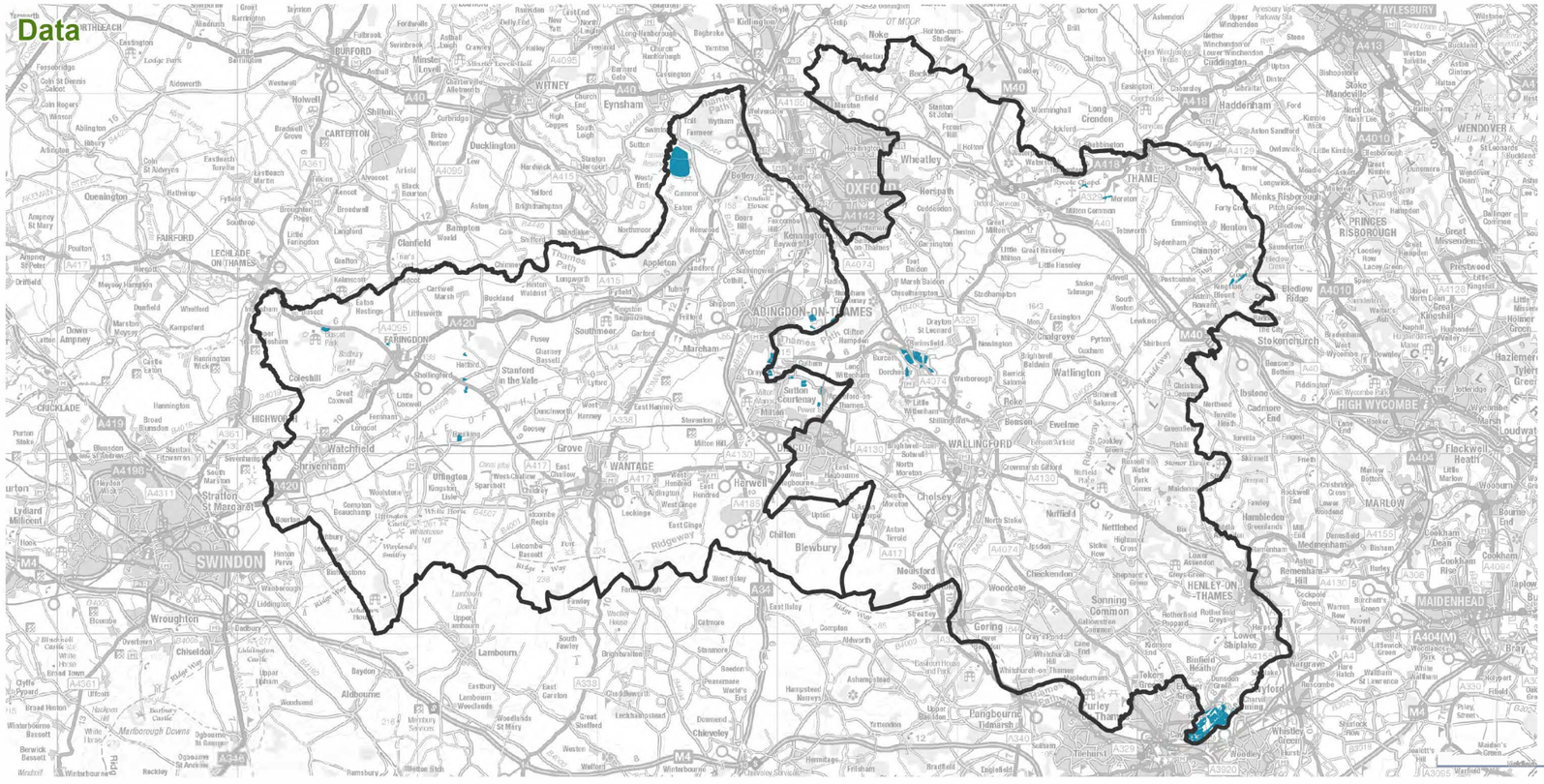
Figure 3.5: P03 Seeing lakes - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Surface water

Result

Score P03

- 0 - lowest contribution to tranquillity
- 1
- 2
- 3
- 4
- 5 - highest contribution to tranquillity

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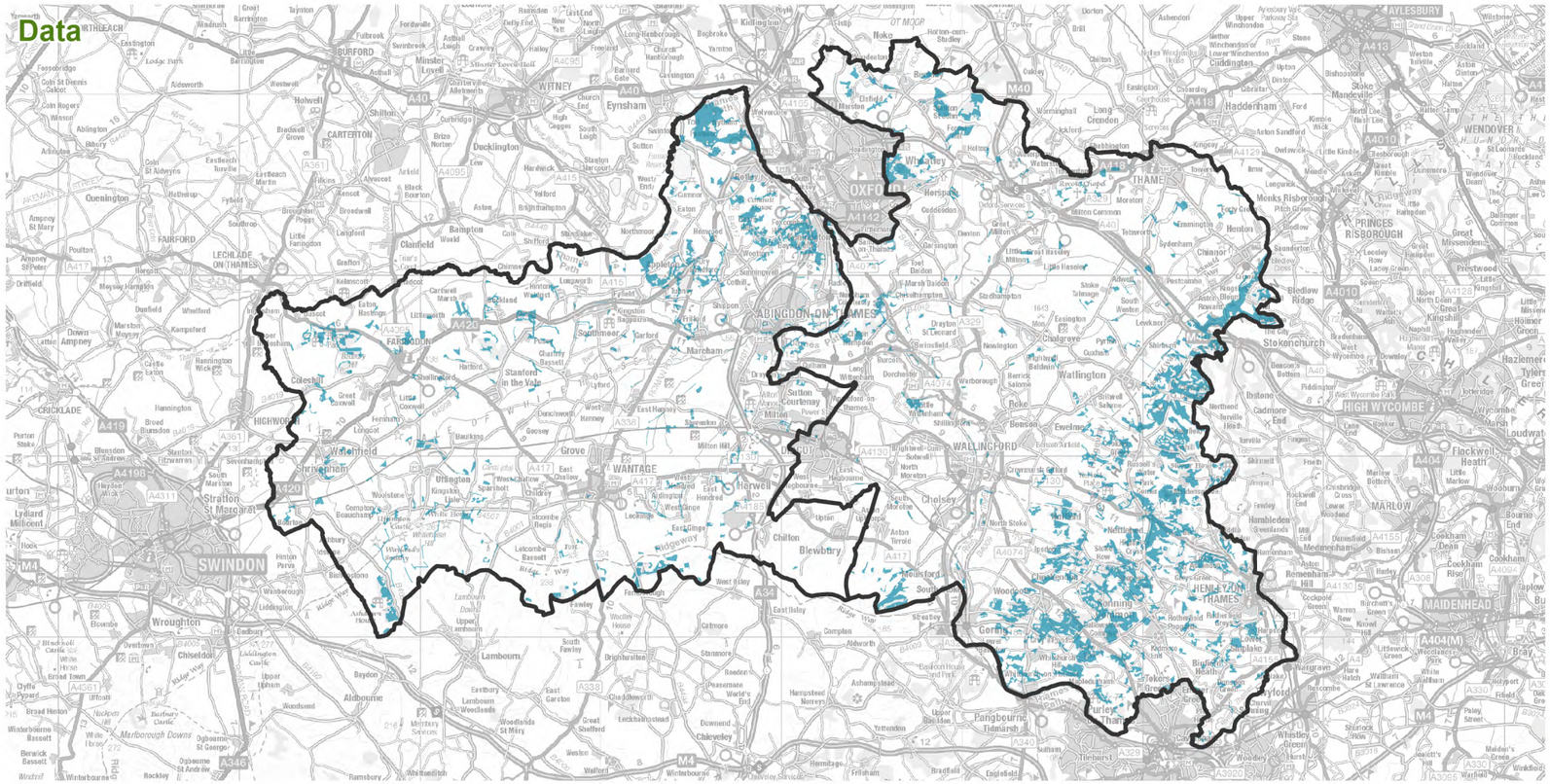
Figure 3.7: P04 Seeing broadleaved woodland above 2.5 ha - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Broadleaved woodland

Result

Score P04

- 0 - lowest contribution to tranquillity
- 2
- 3
- 4
- 5 - highest contribution to tranquillity

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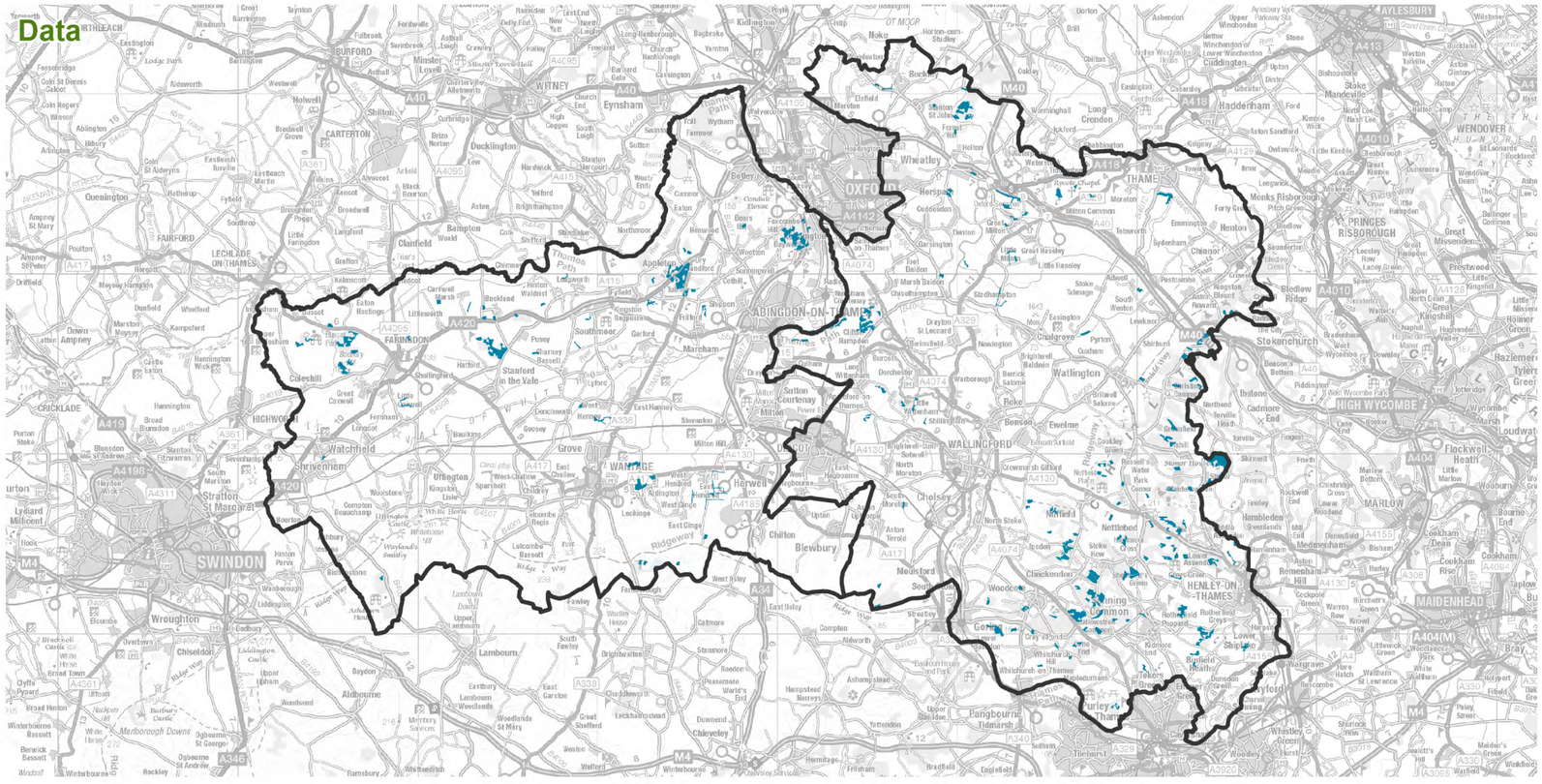
Figure 3.9: P05 Seeing plantation/coniferous woodland above 2.5ha - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Coniferous woodland

Result

Score P05

- 0 - lowest contribution to tranquillity
- 1
- 2
- 3 - highest contribution to tranquillity

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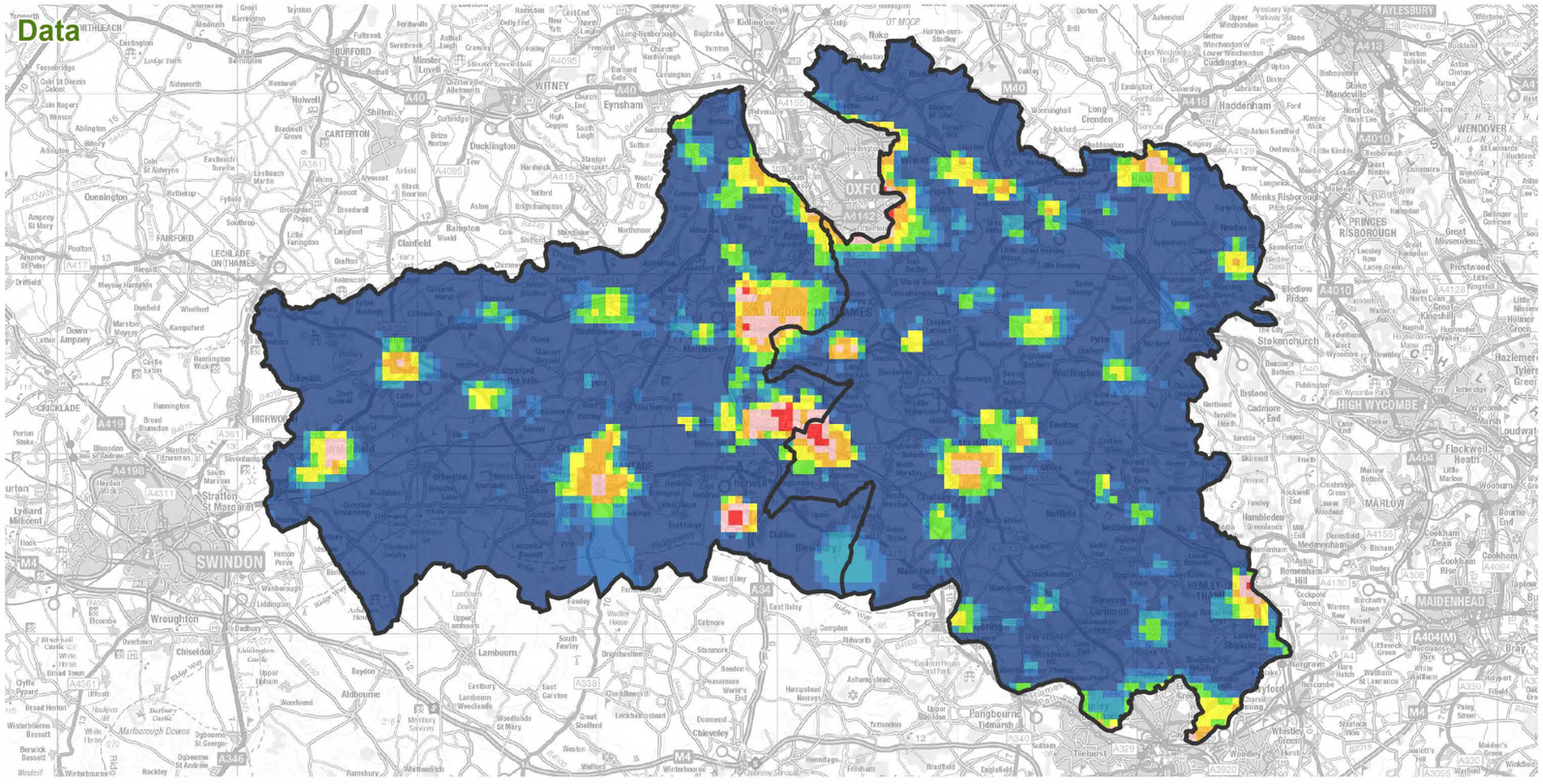
Figure 3.11: P06 Seeing the stars at night - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Dark skies and light pollution (nanoW/cm2/sr)

- <0.25 (Darkest)
- 0.25-0.5
- 0.5-1
- 1-2
- 2-4 (Brighter)
- 4-8
- 8-16
- 16-32
- >32 (Brightest)

Result

Score P06

- 0 - lowest contribution to tranquillity
- 1
- 3
- 5 - highest contribution to tranquillity

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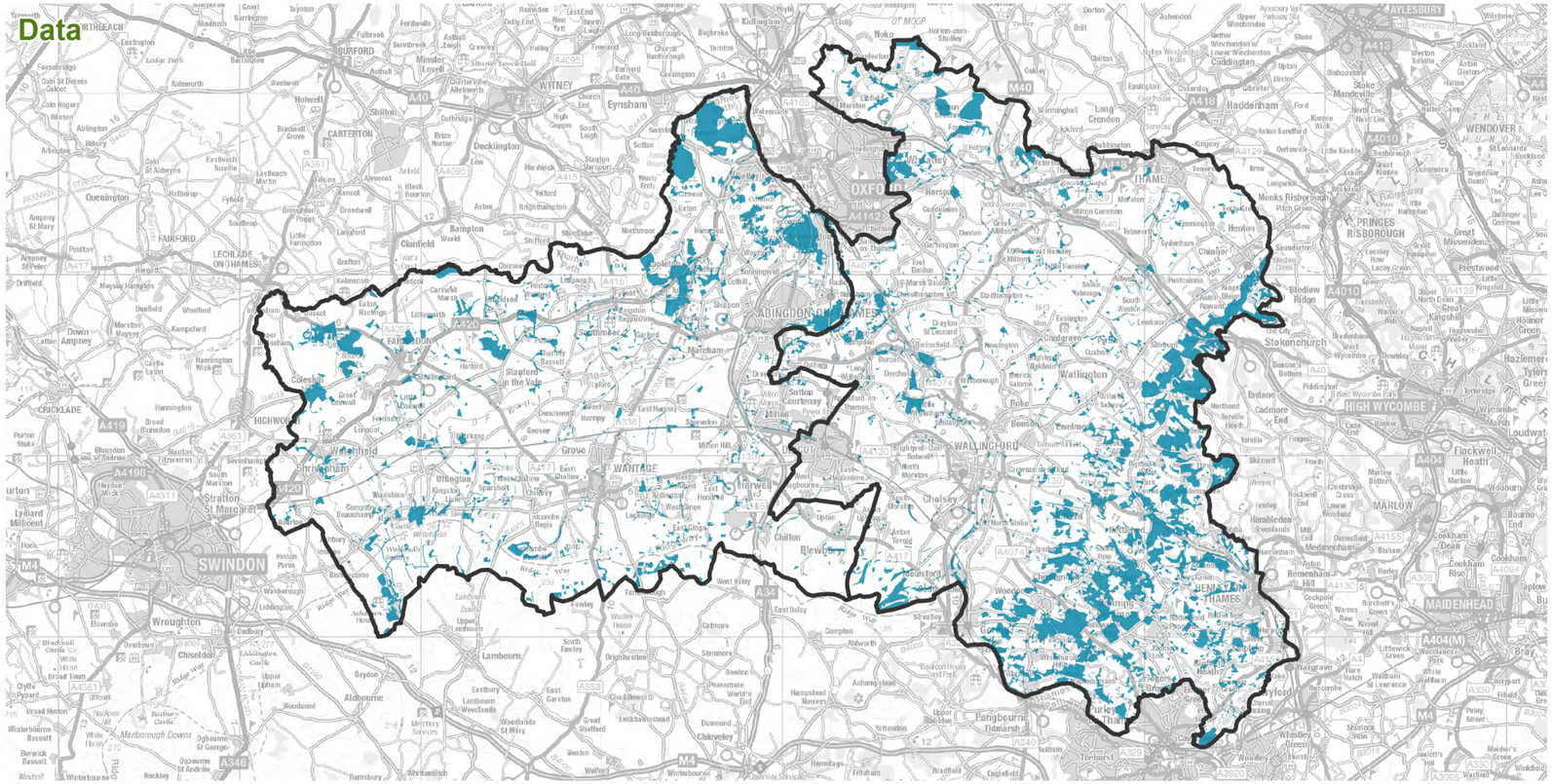
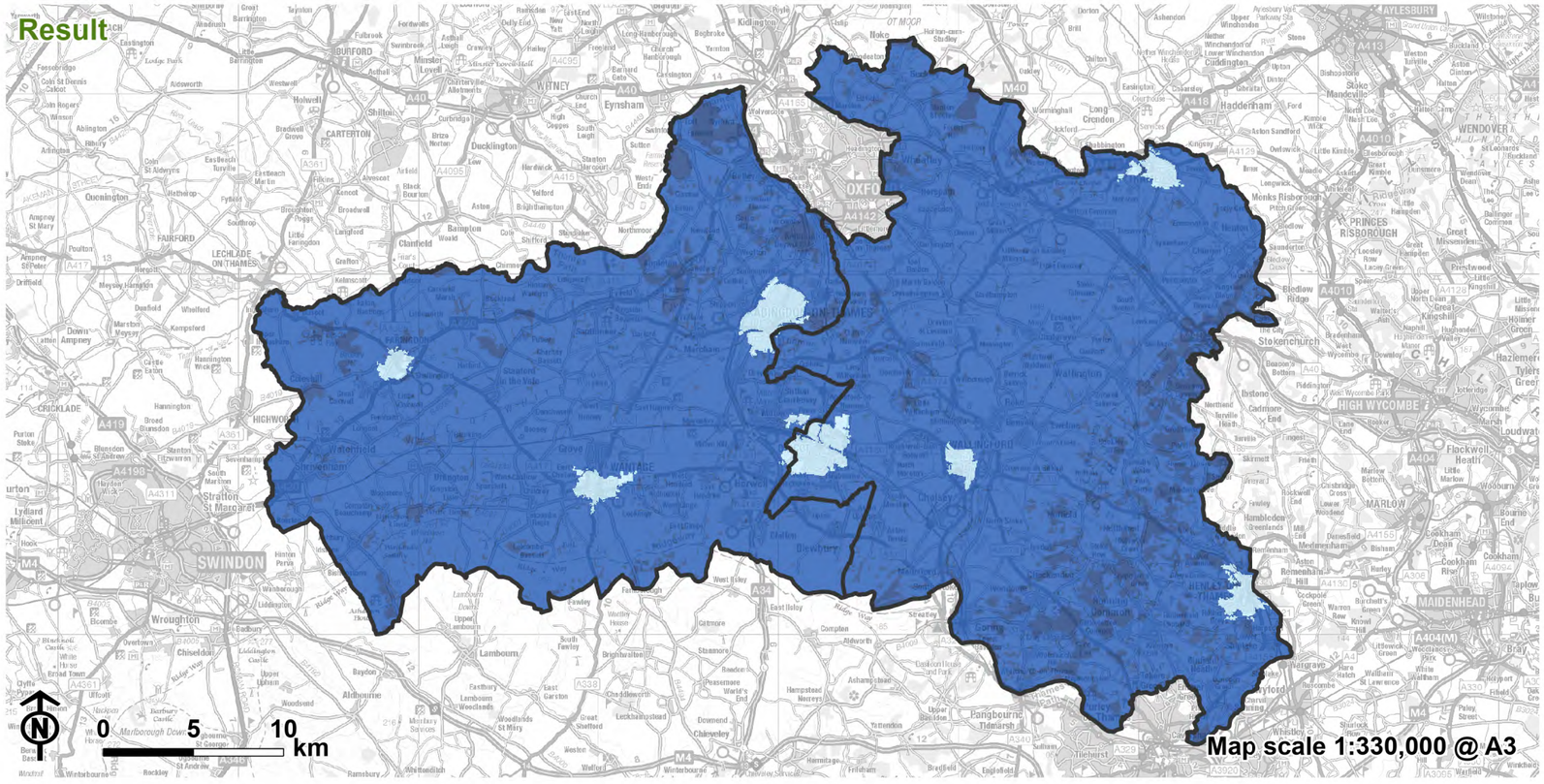
Figure 3.13: P07 Hearing nature - all South and Vale data and results





South Oxfordshire and Vale of White Horse

Data

National Forest Inventory, Ancient Woodland Inventory, Special Area of Conservation, Site of Special Scientific Interest, Local Nature Reserve, National Nature Reserve, Country parks, Local wildlife site

Result

Score P07

0 - lowest contribution to tranquillity

4

5 - highest contribution to tranquillity

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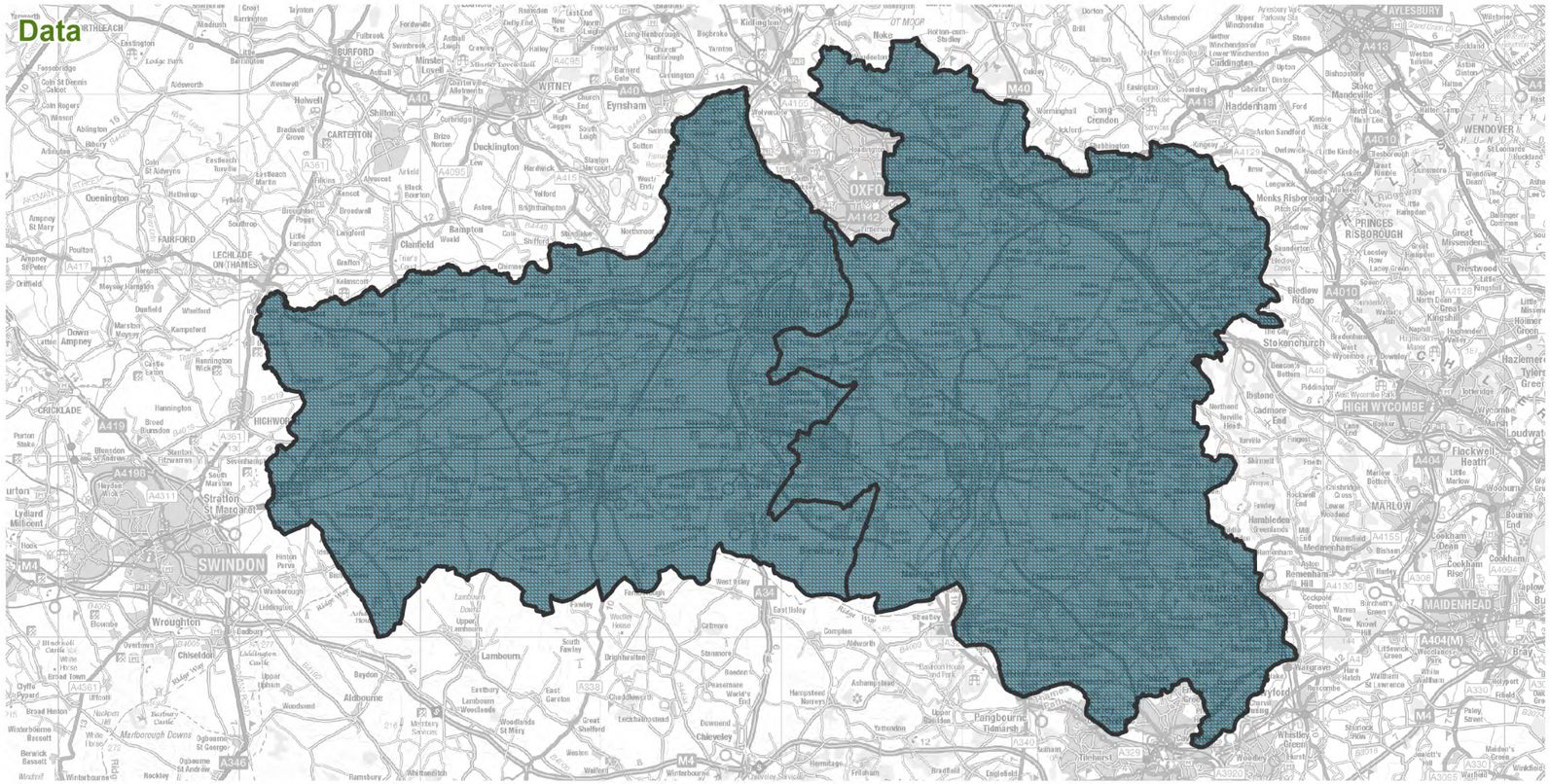
Figure 3.15: P08 Seeing elevated areas - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

- Points 200m interval

Result

Score P08

- 1 - lowest contribution to tranquillity
- 2
- 3
- 4
- 5 - highest contribution to tranquillity

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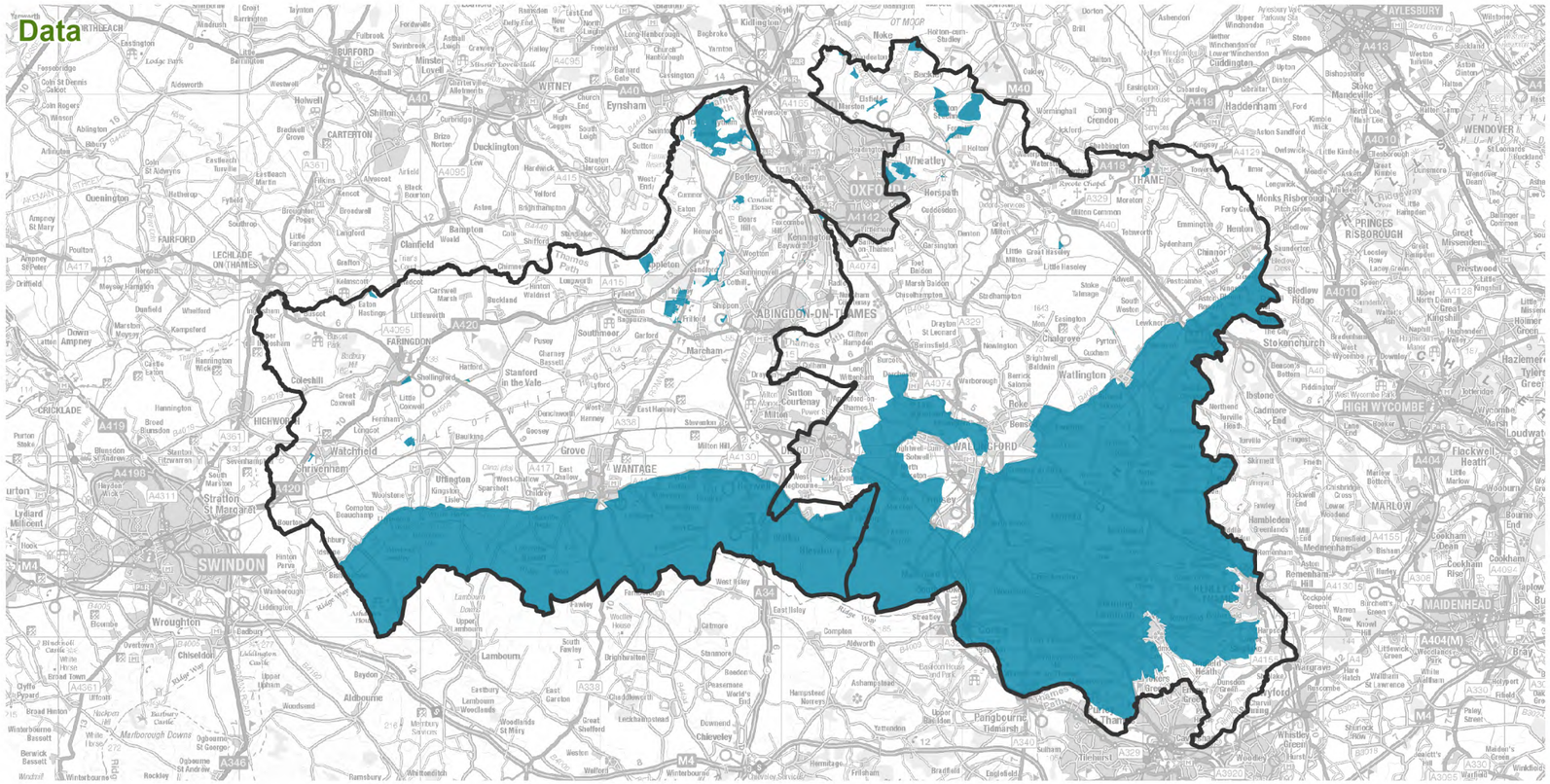
Figure 3.17: P09 Seeing natural designations - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Area of Outstanding Natural Beauty, Special Area of Conservation, Site of Special Scientific Interest, Local Nature Reserve, National Nature Reserve

Result

Score P09

- 0 - lowest contribution to tranquillity
- 1
- 2
- 3
- 4
- 5 - highest contribution to tranquillity

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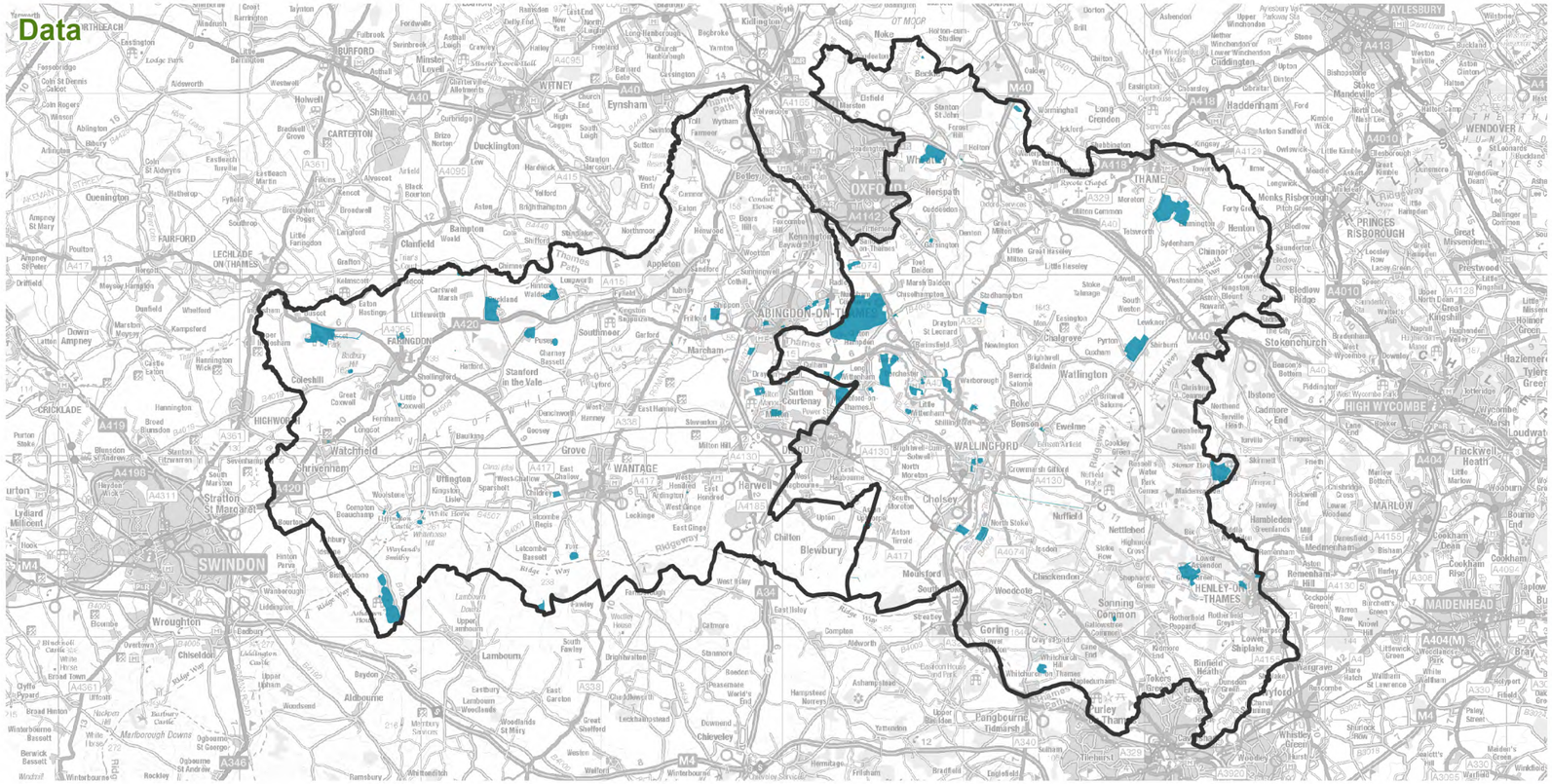
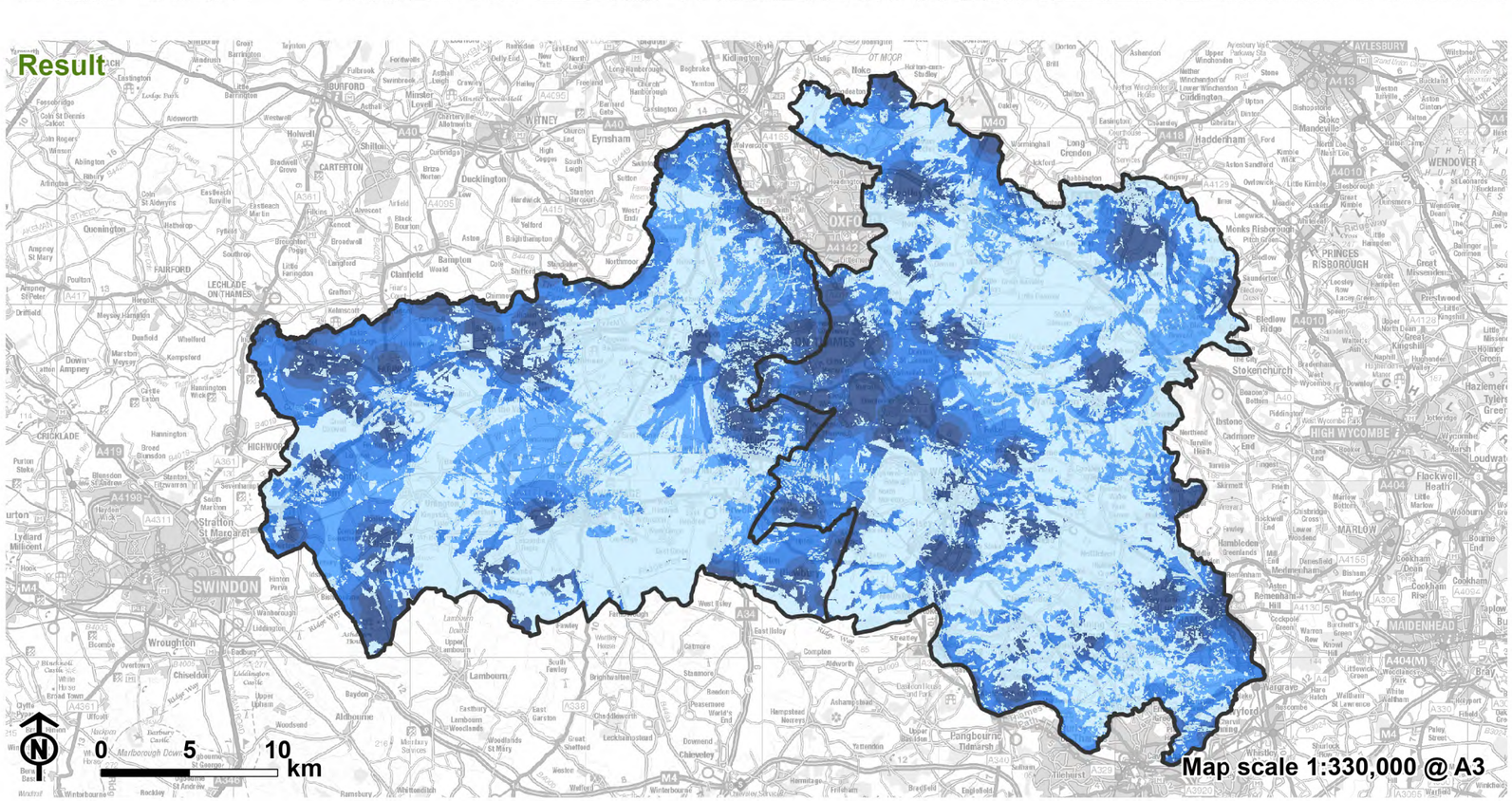
Figure 3.19: P10 Seeing time depth - all South and Vale data and results





South Oxfordshire and Vale of White Horse

Data

Scheduled monument, historic park and garden

Result

Score P10

- 0 - lowest contribution to tranquillity
- 1
- 2
- 3
- 4
- 5 - highest contribution to tranquillity

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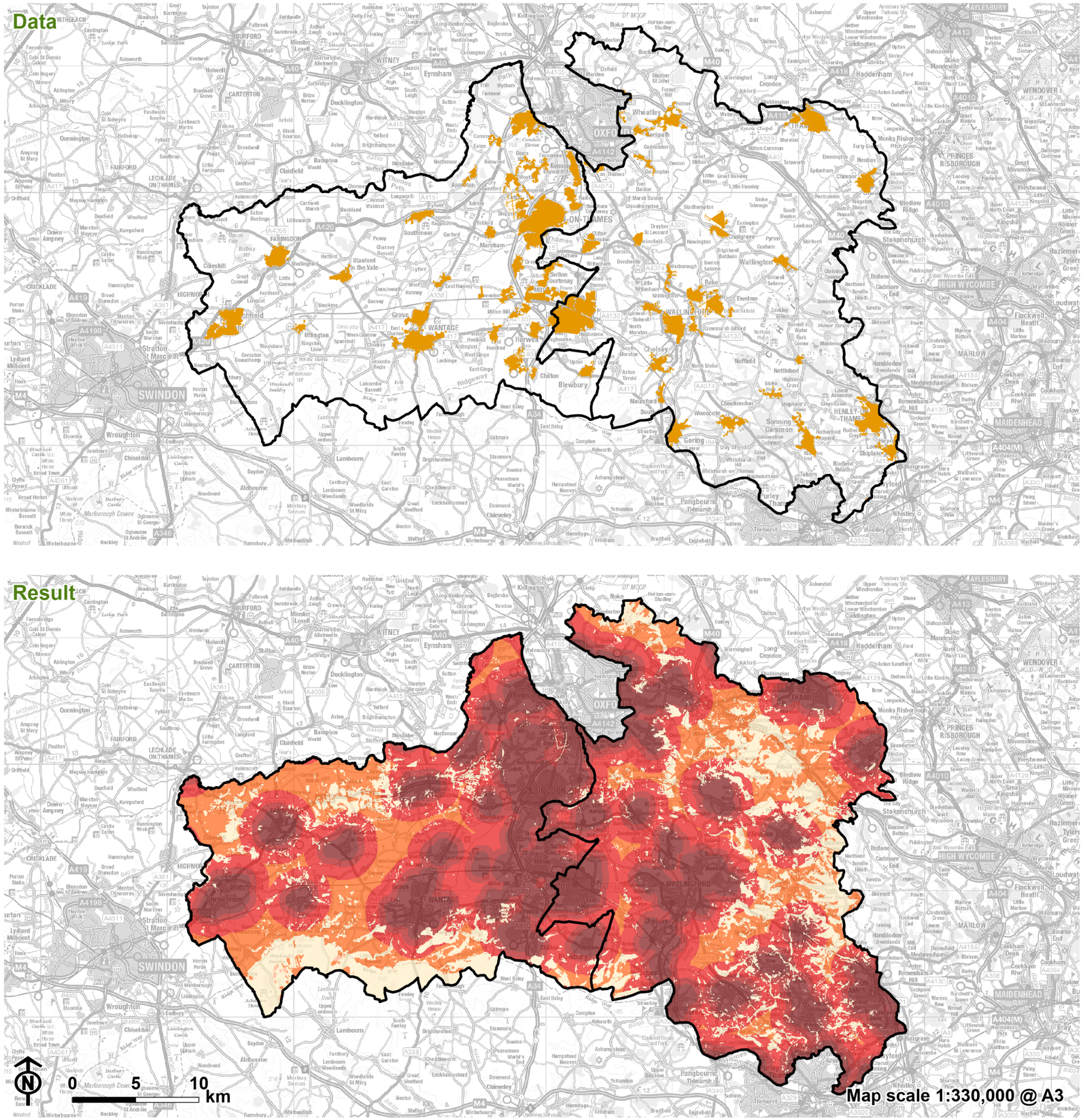
Figure 4.1: N01 Seeing settlements - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Settlement

Result

Score N01

- 0 - highest contribution to tranquillity
- 1
- 2
- 3
- 4
- 5 - lowest contribution to tranquillity

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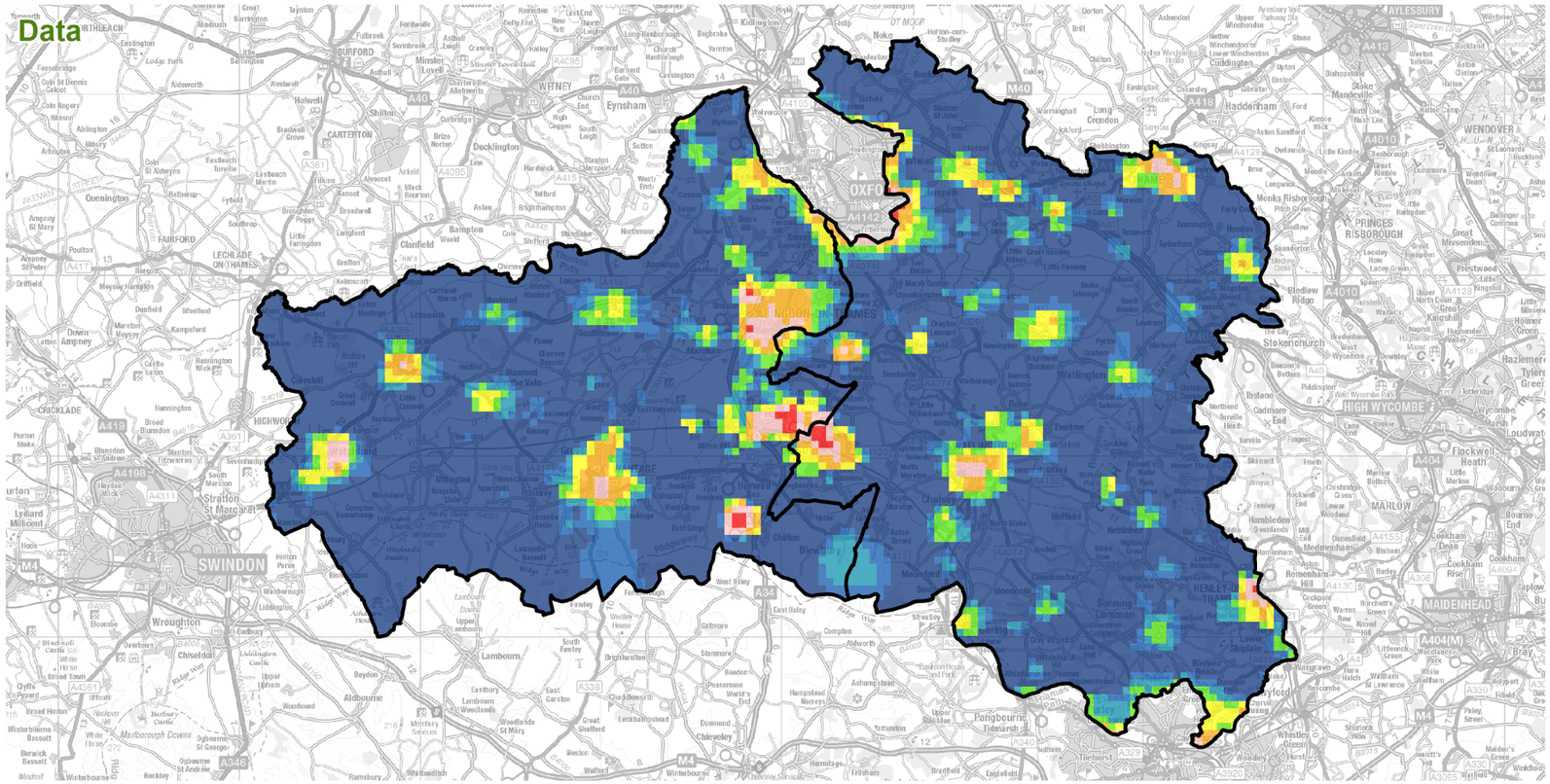
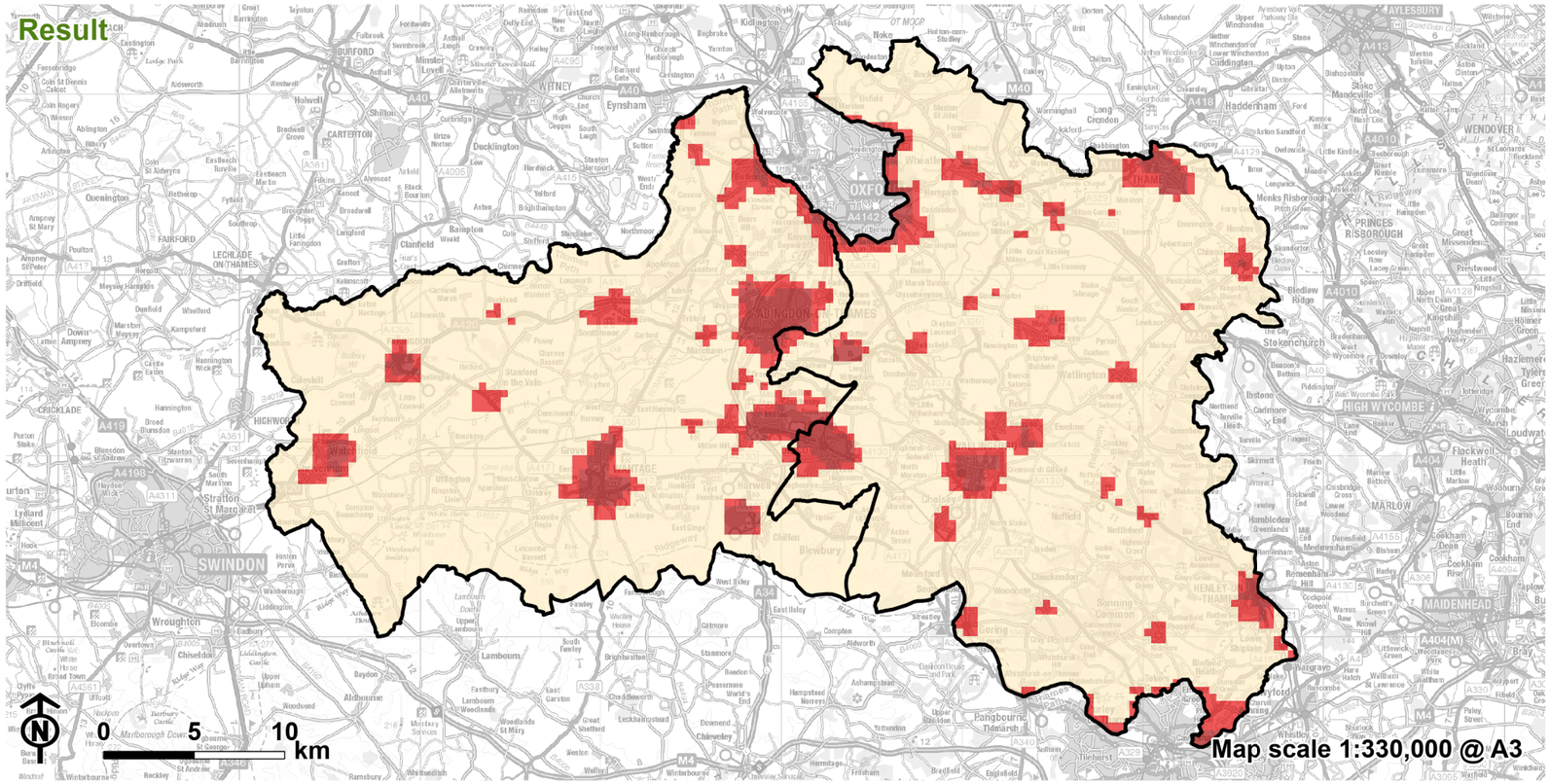
Figure 4.3: N02 Seeing light pollution - all South and Vale data and results





South Oxfordshire and Vale of White Horse

Data

Dark skies and light pollution (nanoW/cm2/sr)

- <0.25 (Darkest)
- 0.25-0.5
- 0.5-1
- 1-2
- 2-4 (Brighter)
- 4-8
- 8-16
- 16-32
- >32 (Brightest)

Result

Score N02

- 0 - highest contribution to tranquillity
- 3
- 4
- 5 - lowest contribution to tranquillity

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South Oxfordshire and Vale of White Horse Councils

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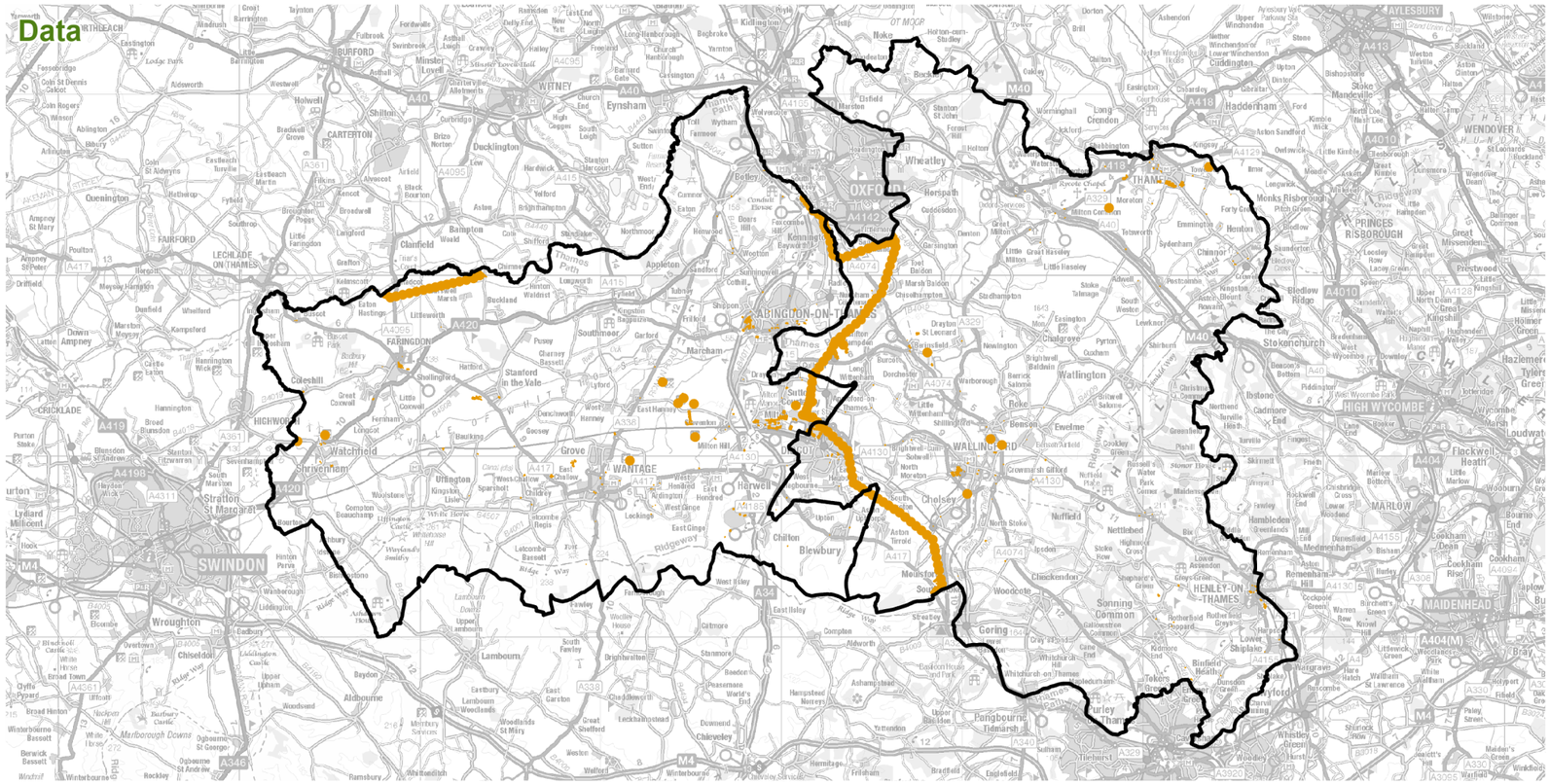
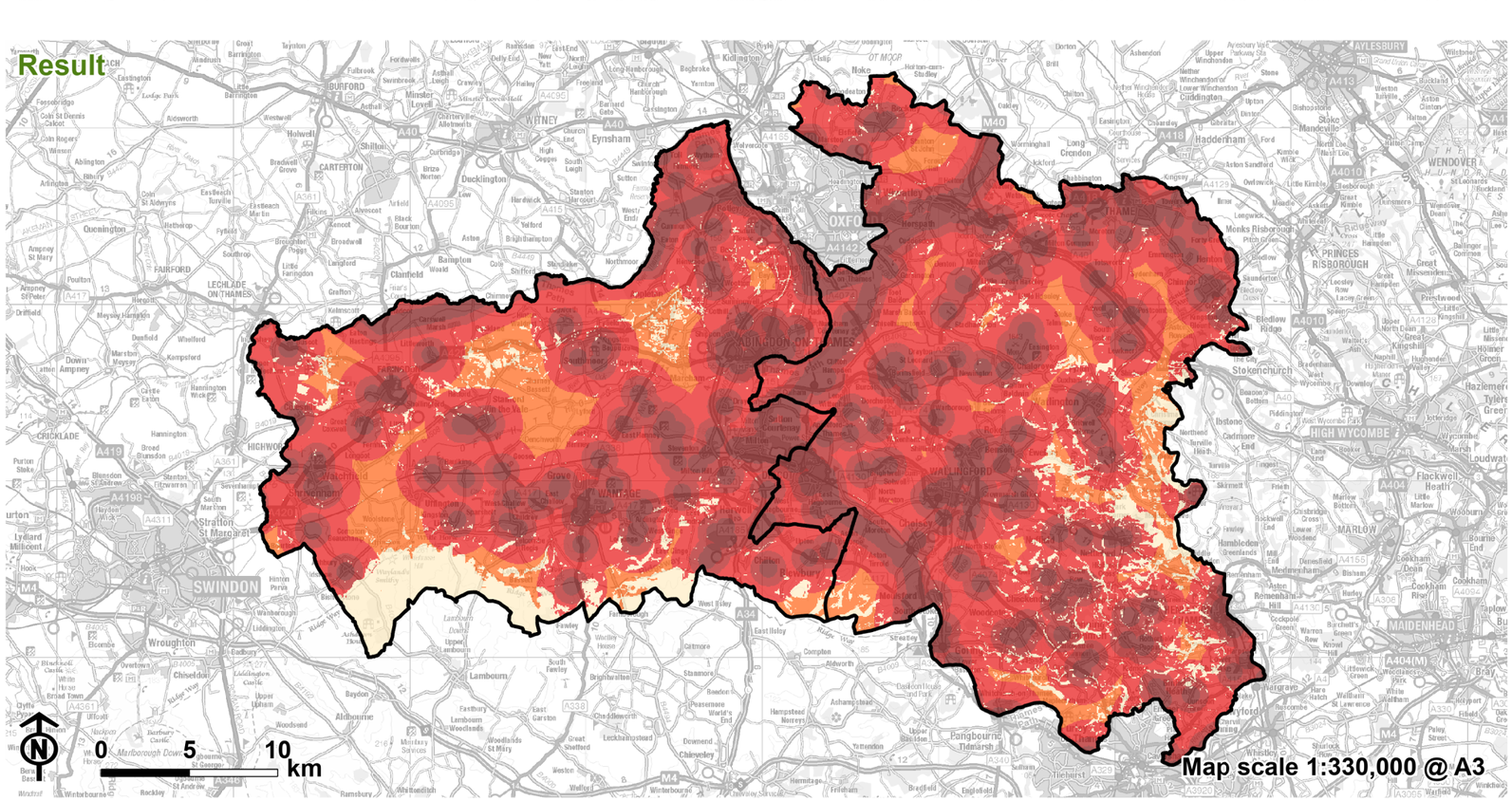
Figure 4.5: N03 Seeing large non-natural infrastructure - all South and Vale data and results





South Oxfordshire and Vale of White Horse

Data

- Anaerobic sewage digestion, battery, biomass, hydro, landfill gas, solar photovoltaics, 400kV pylons, wind turbine
- Industrial building, warehouse

Result

Score N03

- 0 - highest contribution to tranquillity
- 1
- 2
- 3
- 4
- 5 - lowest contribution to tranquillity

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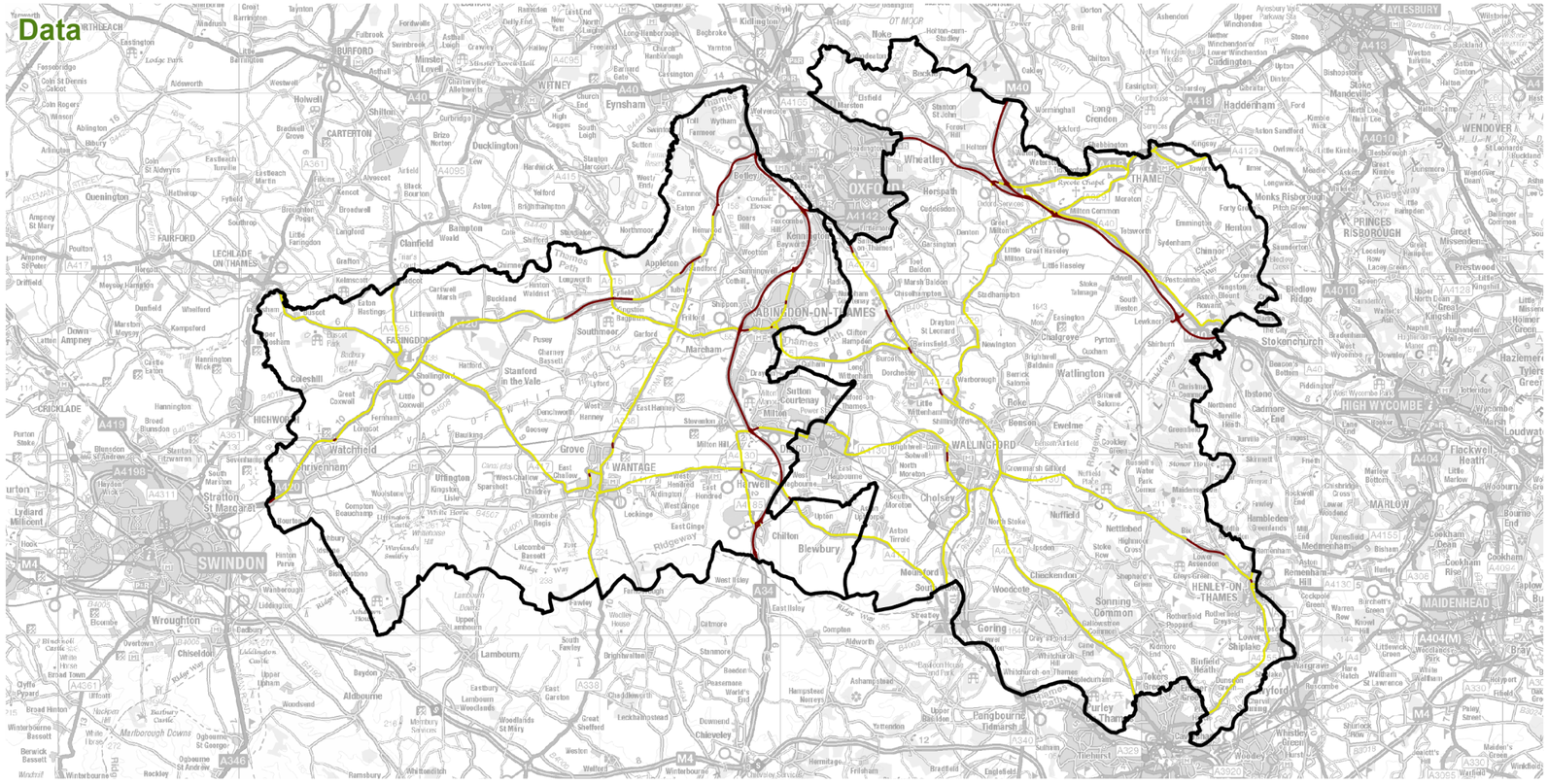
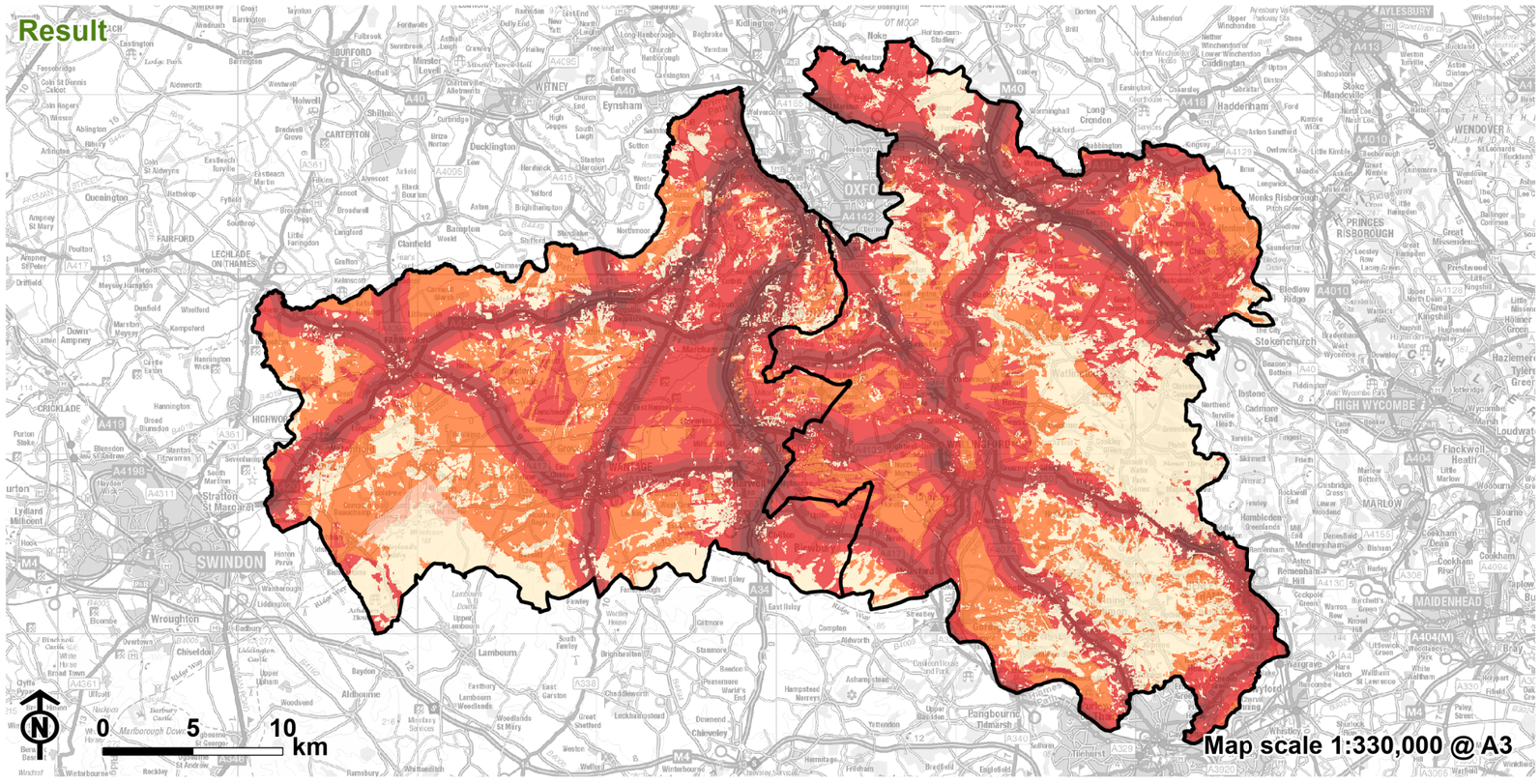
Figure 4.7: N04 Seeing major roads - all South and Vale data and results





South Oxfordshire and Vale of White Horse

Data

Single carriageway A-road

Motorway and dual carriageway A-road

Result

Score N04

0 - highest contribution to tranquillity

1

2

3

4

5 - lowest contribution to tranquillity

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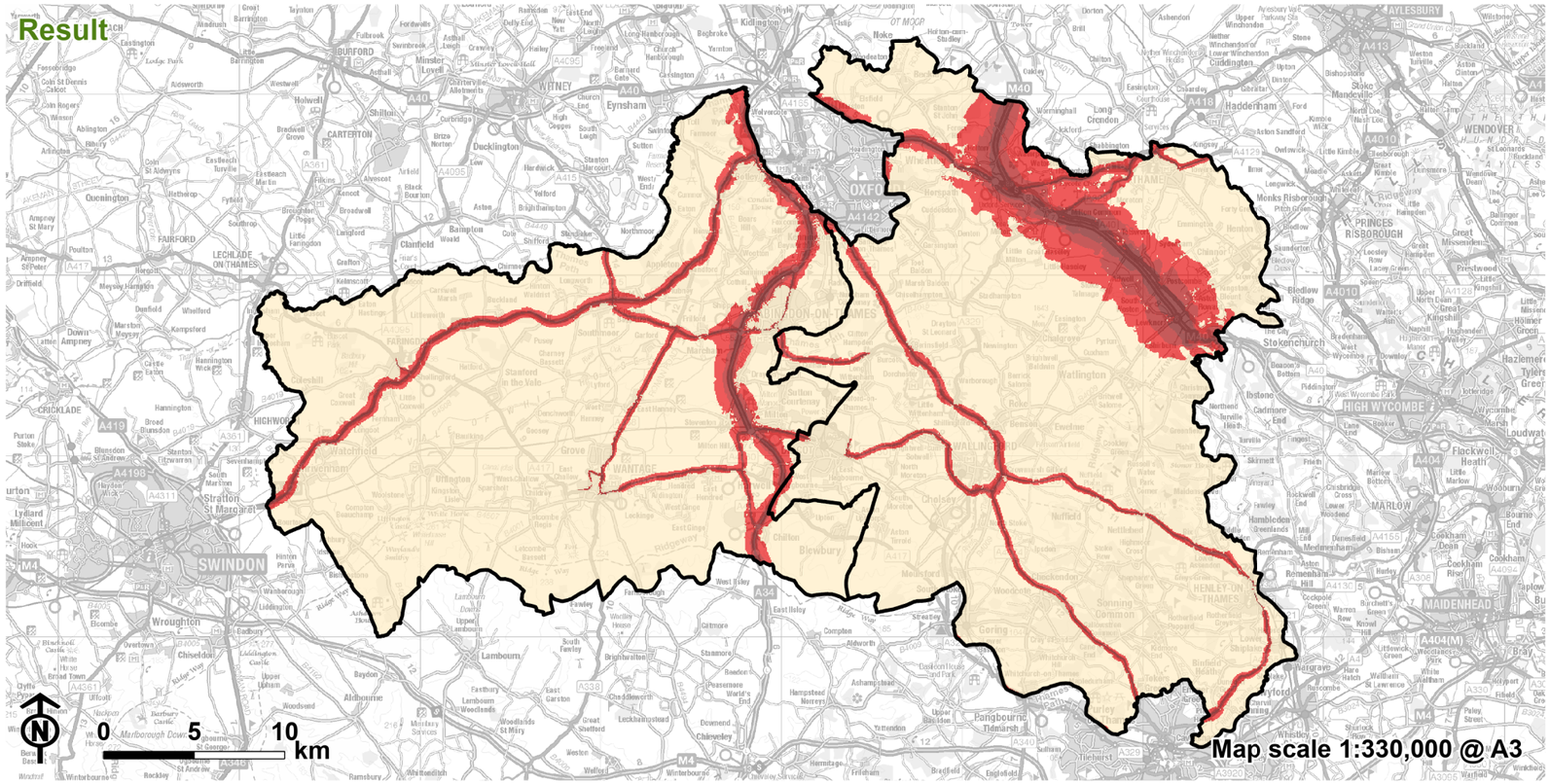
Figure 4.9: N05 Hearing major roads -all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Defra strategic noise mapping 2017 - road

- 55.0-59.9
- 60.0-64.9
- 65.0-69.9
- 70.0-74.9
- >=75.0

Result

Score N05

- 0 - highest contribution to tranquillity
- 3
- 4
- 5 - lowest contribution to tranquillity

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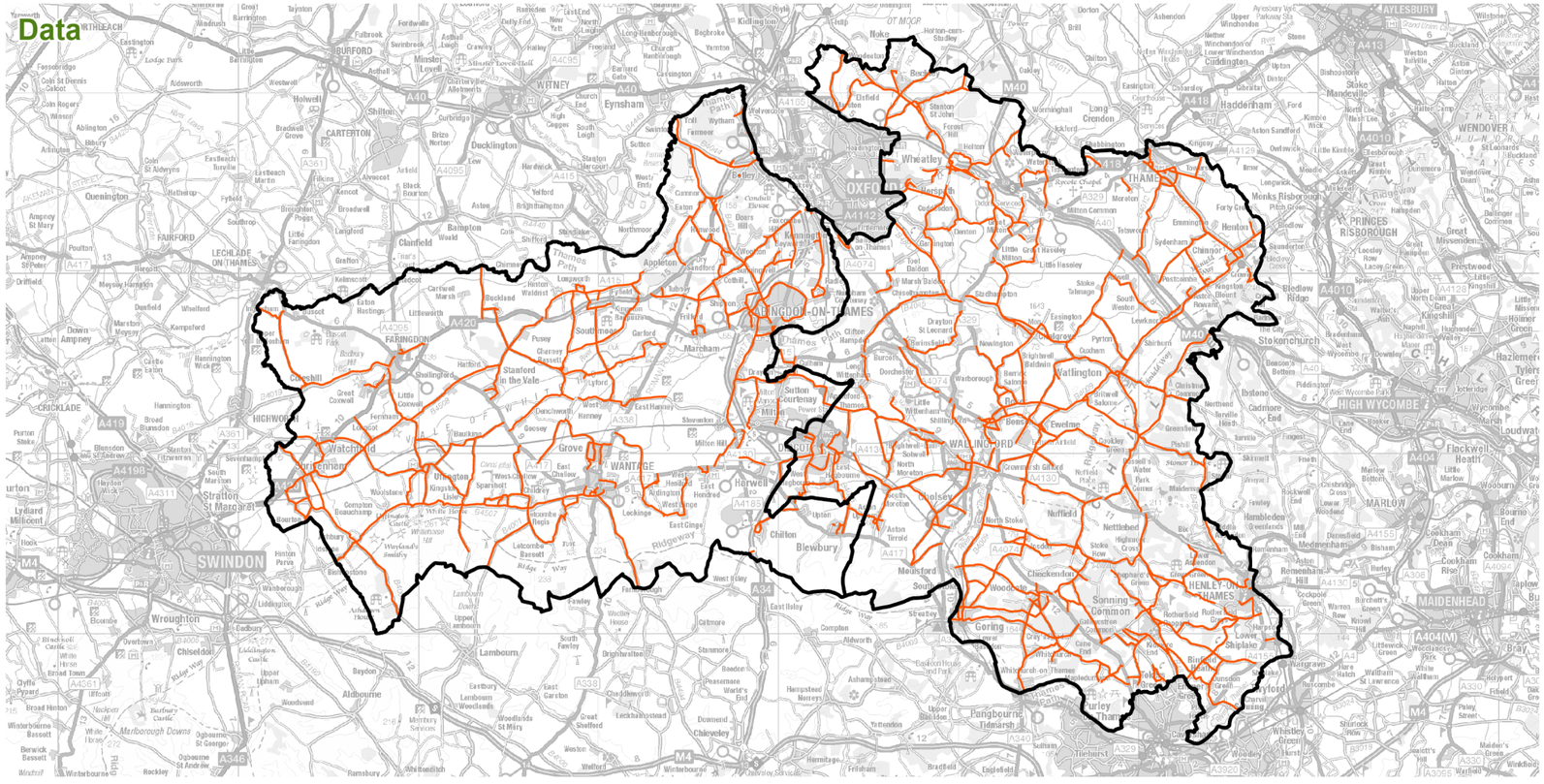
Figure 4.11: N06 Seeing minor roads - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Minor road

Result

Score N06

- 0 - highest contribution to tranquillity
- 1
- 2
- 3 - lowest contribution to tranquillity

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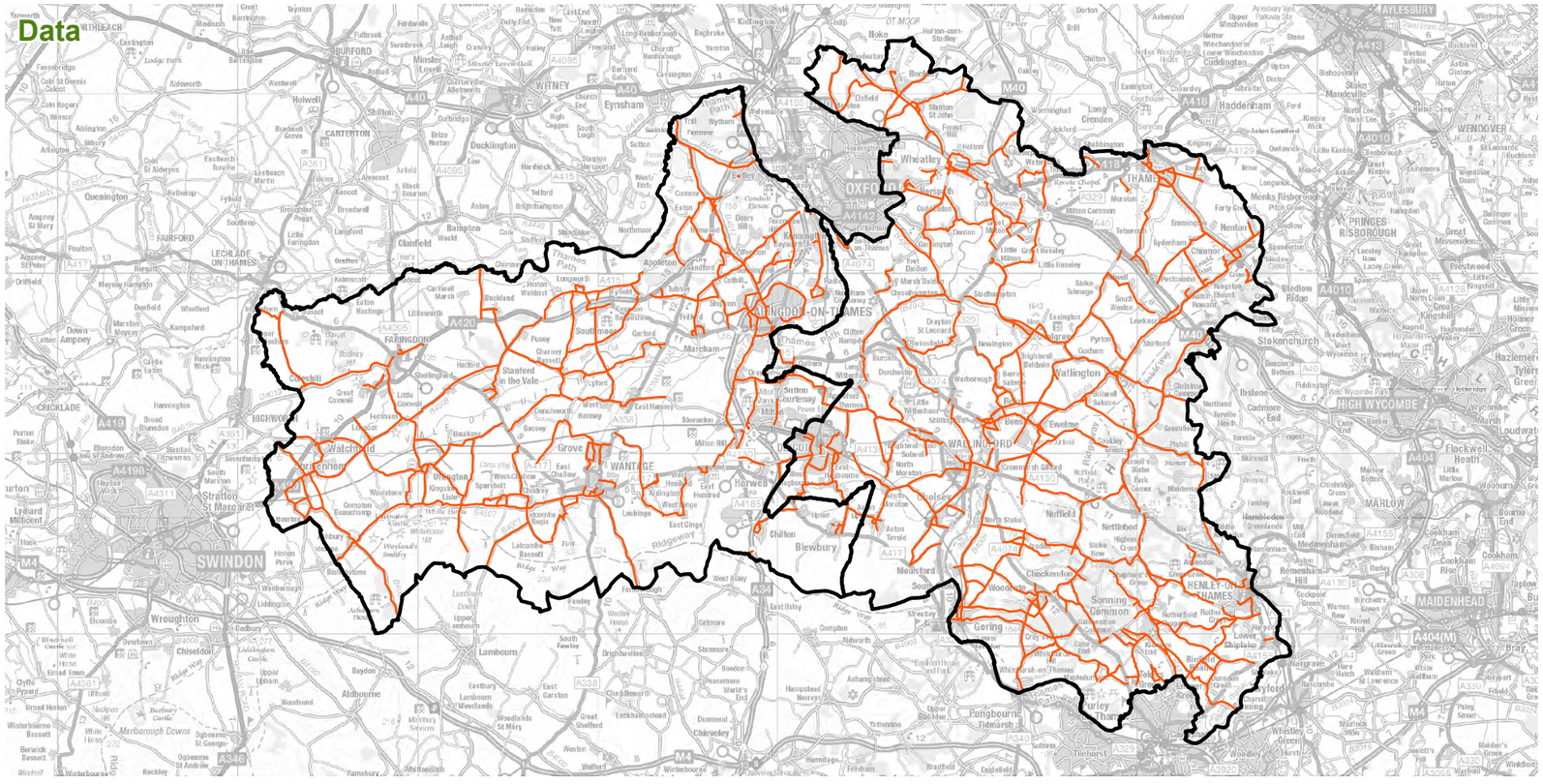
Figure 4.13: N07 Hearing minor roads - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Minor road

Result

Score N07

- 0 - highest contribution to tranquillity
- 1
- 2
- 3 - lowest contribution to tranquillity

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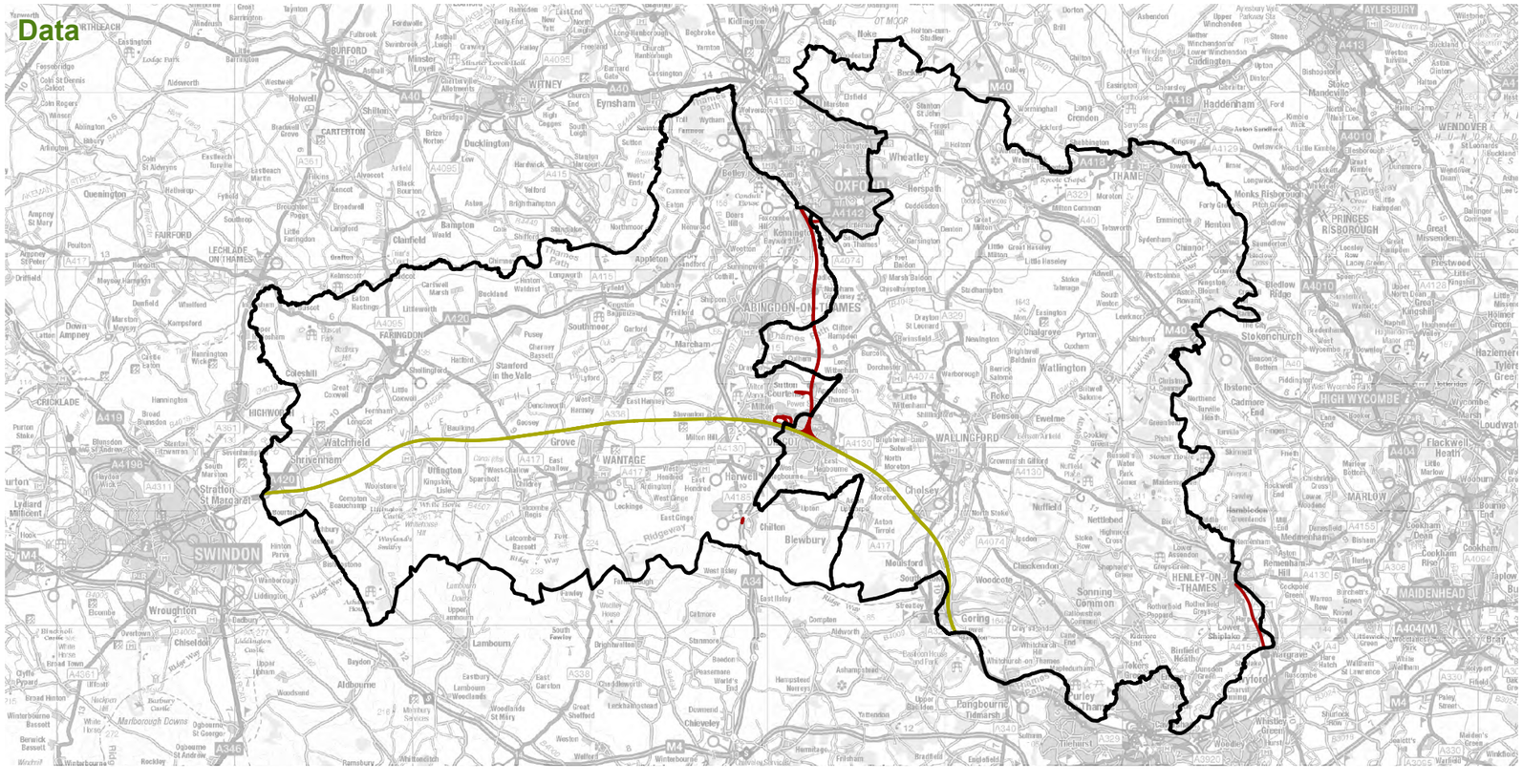
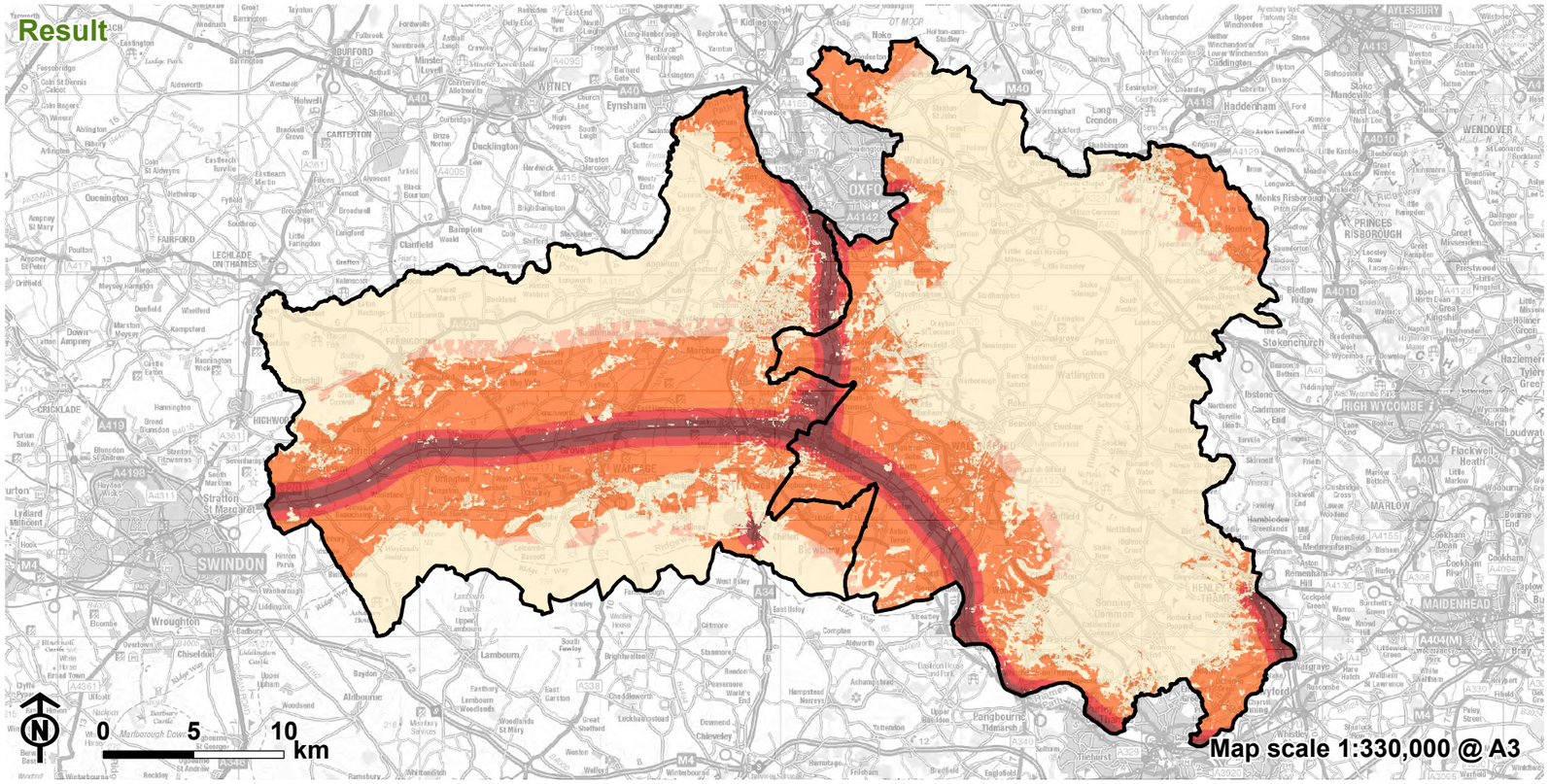
Figure 4.15: N08 Seeing railways - all South and Vale data and results





South Oxfordshire and Vale of White Horse

Data

- Major railway - electrified
- Major railway - non electrified

Result

Score N08

- 0 - highest contribution to tranquillity
- 1
- 2
- 3
- 5 - lowest contribution to tranquillity

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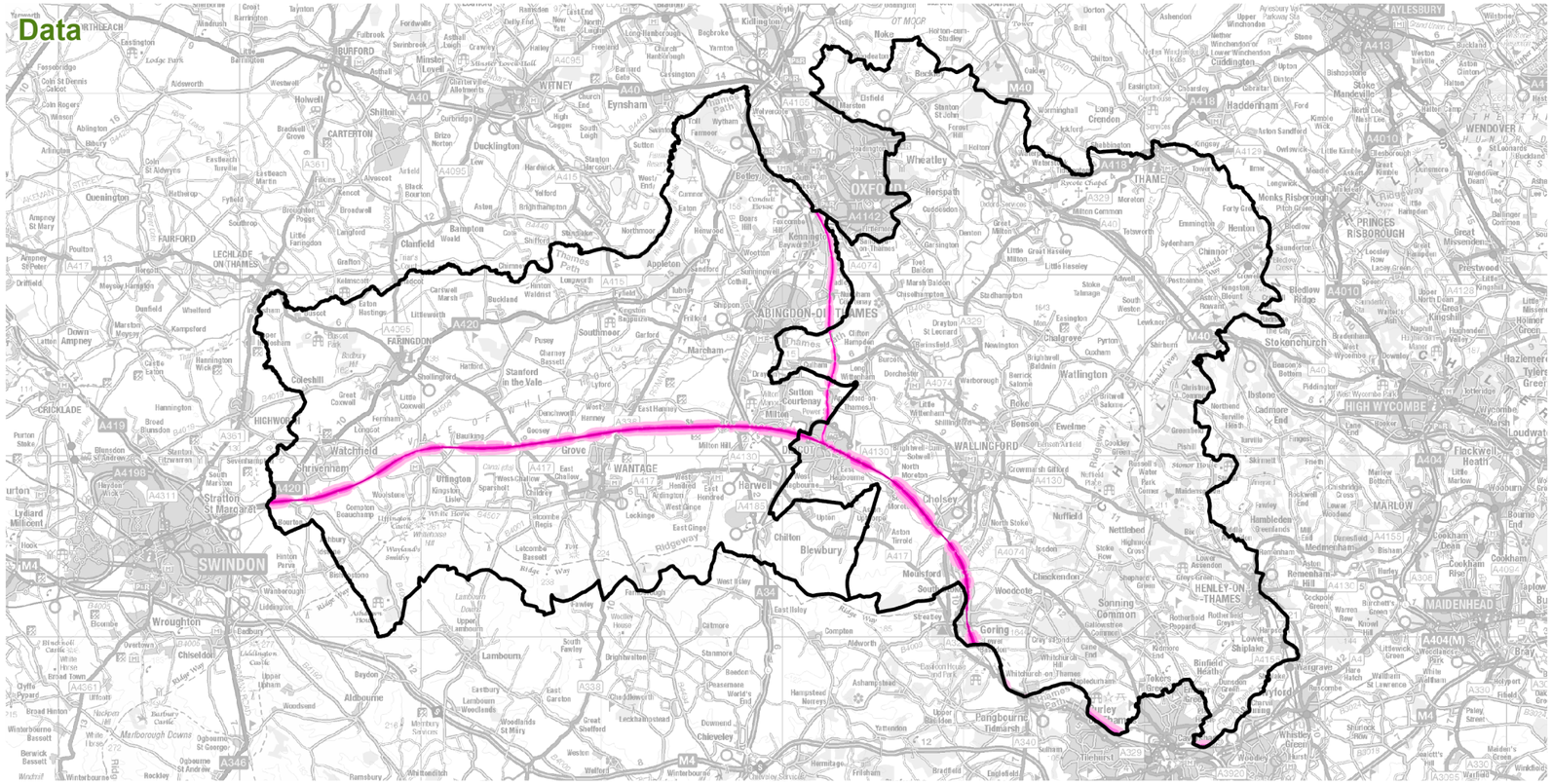
Figure 4.17: N09 Hearing major railways - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

Defra strategic noise mapping 2017 - railway

Noise class (dB)

- 55.0-59.9
- 60.0-64.9
- 65.0-69.9
- 70.0-74.9
- >=75.0

Result

Score N09

- 0 - highest contribution to tranquillity
- 3
- 4
- 5 - lowest tranquillity

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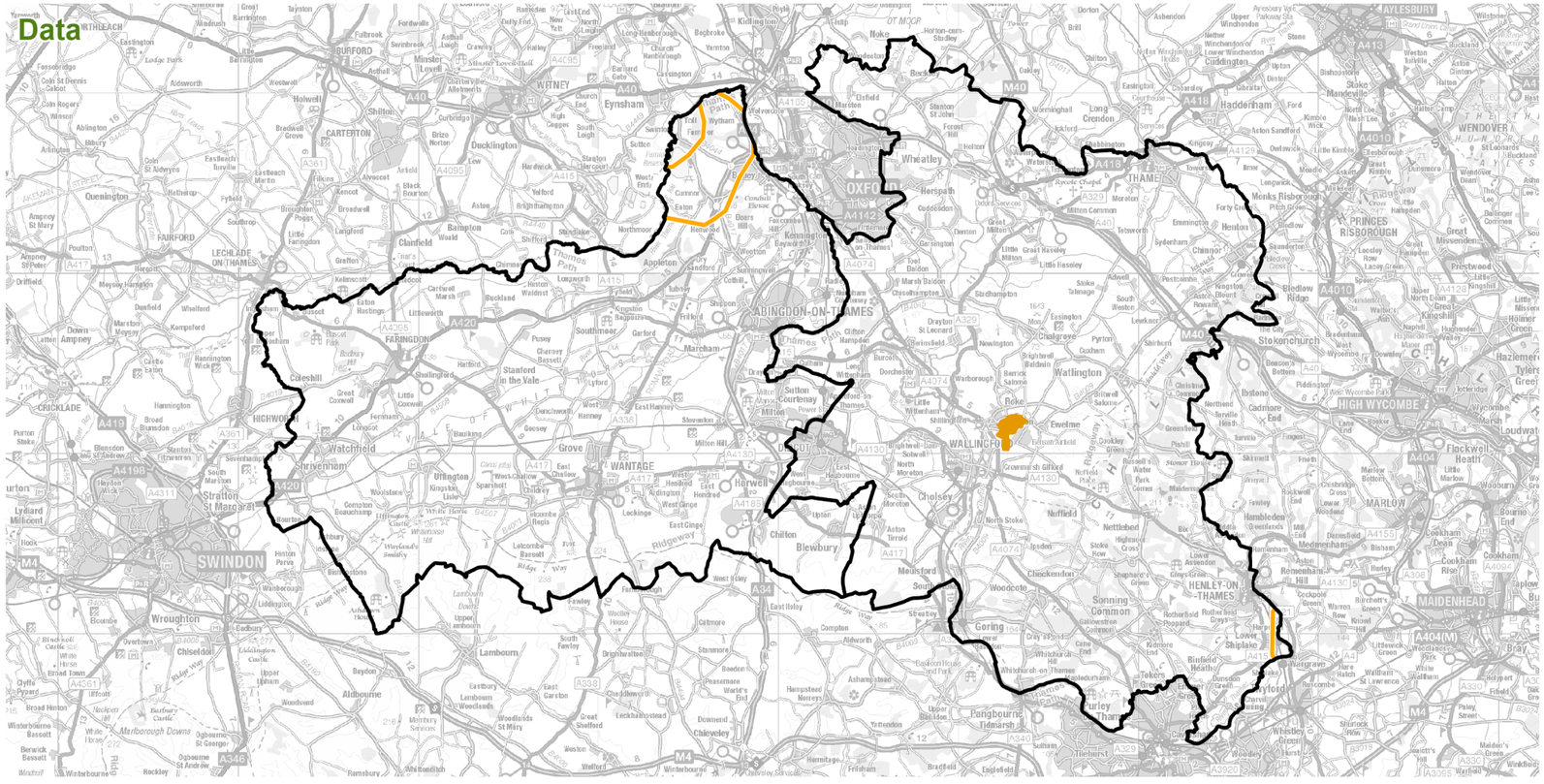
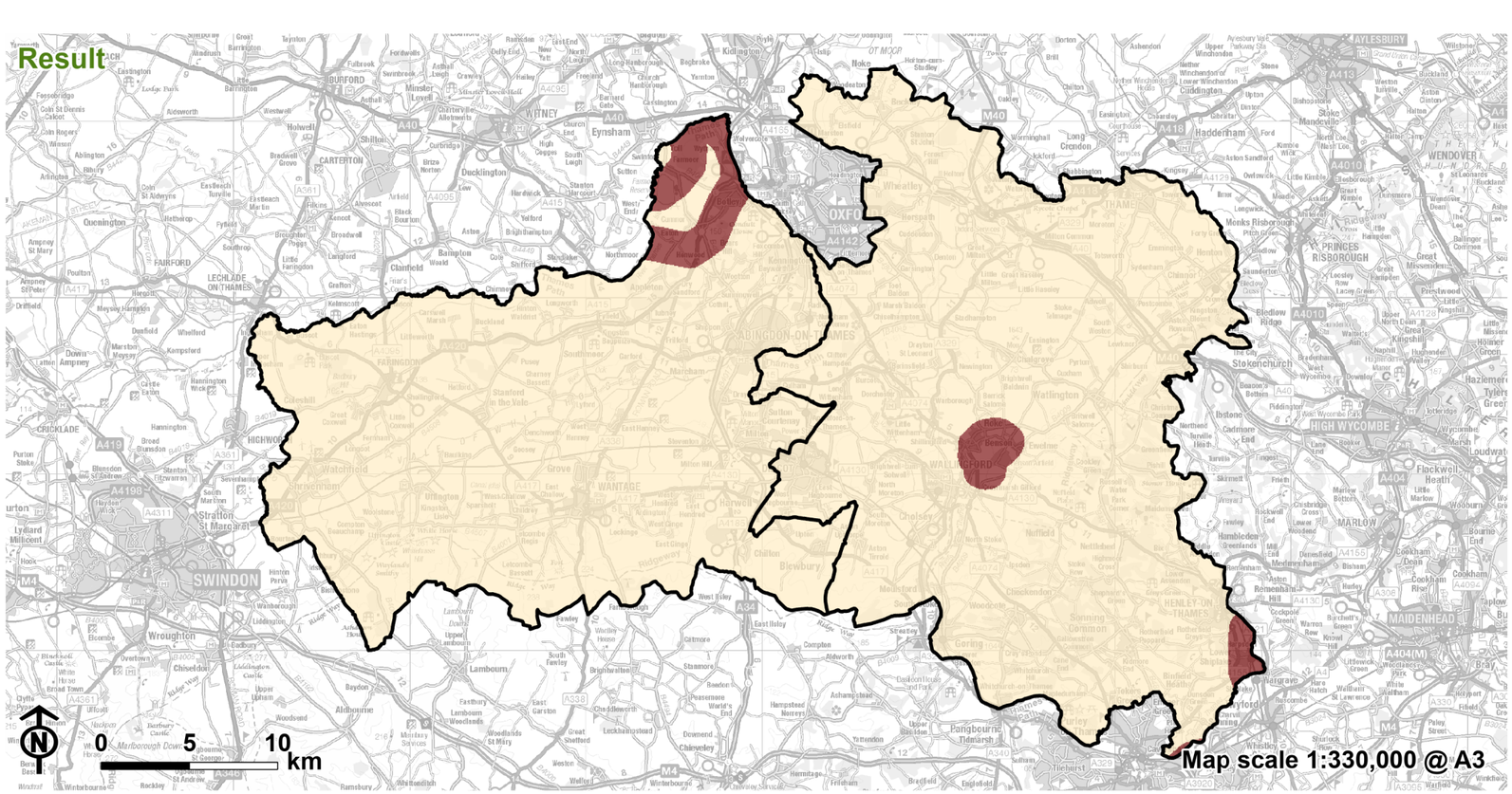
Figure 4.19: N10 Seeing and/or hearing low flying airplanes - all South and Vale data and results





South Oxfordshire and Vale of White Horse

Data

Flight path
Airfield

Result

Score N10

0 - highest contribution to tranquillity
5 - lowest contribution to tranquillity

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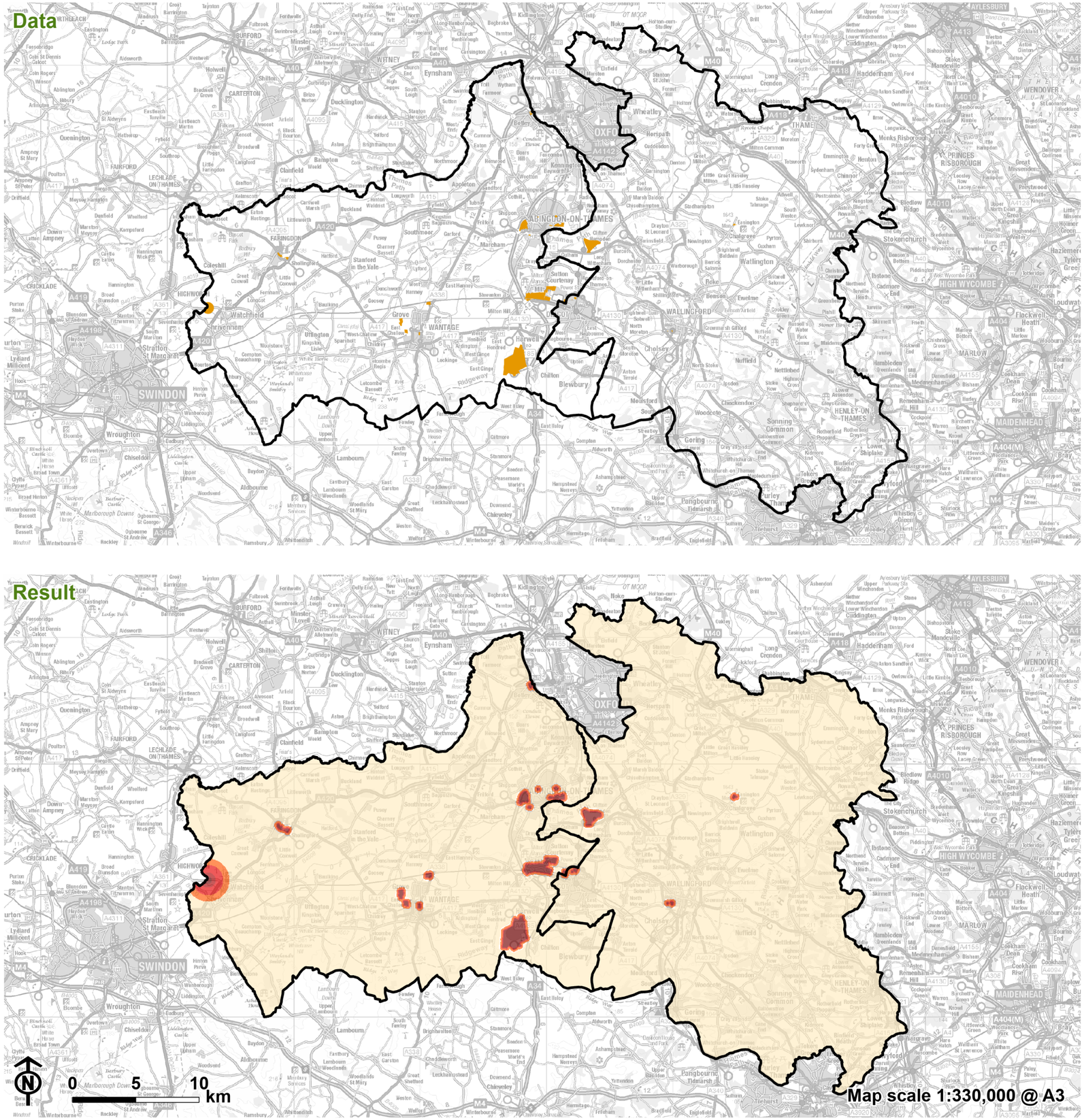
Figure 4.21: N11 Hearing non-natural sounds - all South and Vale data and results



South Oxfordshire and Vale of White Horse

Data

- Turbine
- Employment area and industrial site

Result

Score N11

- 0 - highest contribution to tranquillity
- 2
- 3
- 4
- 5 - lowest contribution to tranquillity

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Figure 6.1: Zones of relative tranquillity

South Oxfordshire and Vale of White Horse

Zones of relative tranquillity

- Zone 1: Area of high tranquillity
- Zone 2: Area of some tranquillity
- Zone 3: Area of mixed tranquillity
- Zone 4: Area of low tranquillity
- Zone 5: Area of very low/no tranquillity

0 10 20 km

Map scale 1:225,000 @ A3

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12315_Combined_Tranquillity/Fig_6_1_r0_Zones_Tranquillity 18/09/2023 EB:bournazel_j
Source: South and Vale Councils, LUC

South Oxfordshire District Council

Listening Learning Leading

Vale of White Horse District Council

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South Oxfordshire and Vale of White Horse

Joint Local Plan 2041

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INVESTOR IN PEOPLE