

Issue number: BT-JAC-020631-550-0004-EIA

# Bramford to Twinstead

Scoping Report: Volume 3: Figures  
May 2021



nationalgrid

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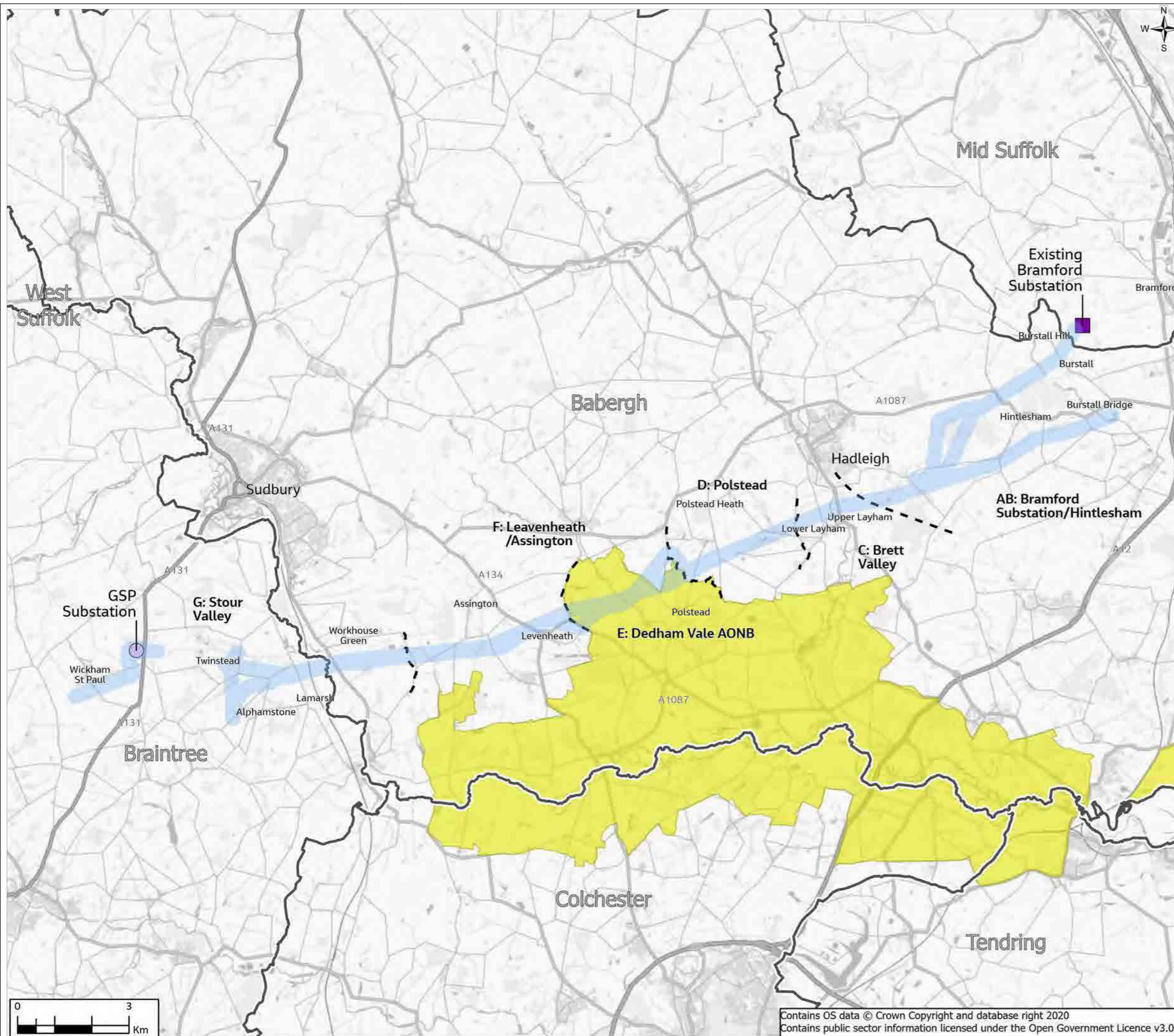
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**FIGURE 1.1**

- Legend**
- - Section boundaries
  - Scoping Boundary
  - Existing Bramford Substation
  - Proposed Grid Supply Point (GSP) Substation
  - Local authority districts
  - Area of Outstanding Natural Beauty (AONB)



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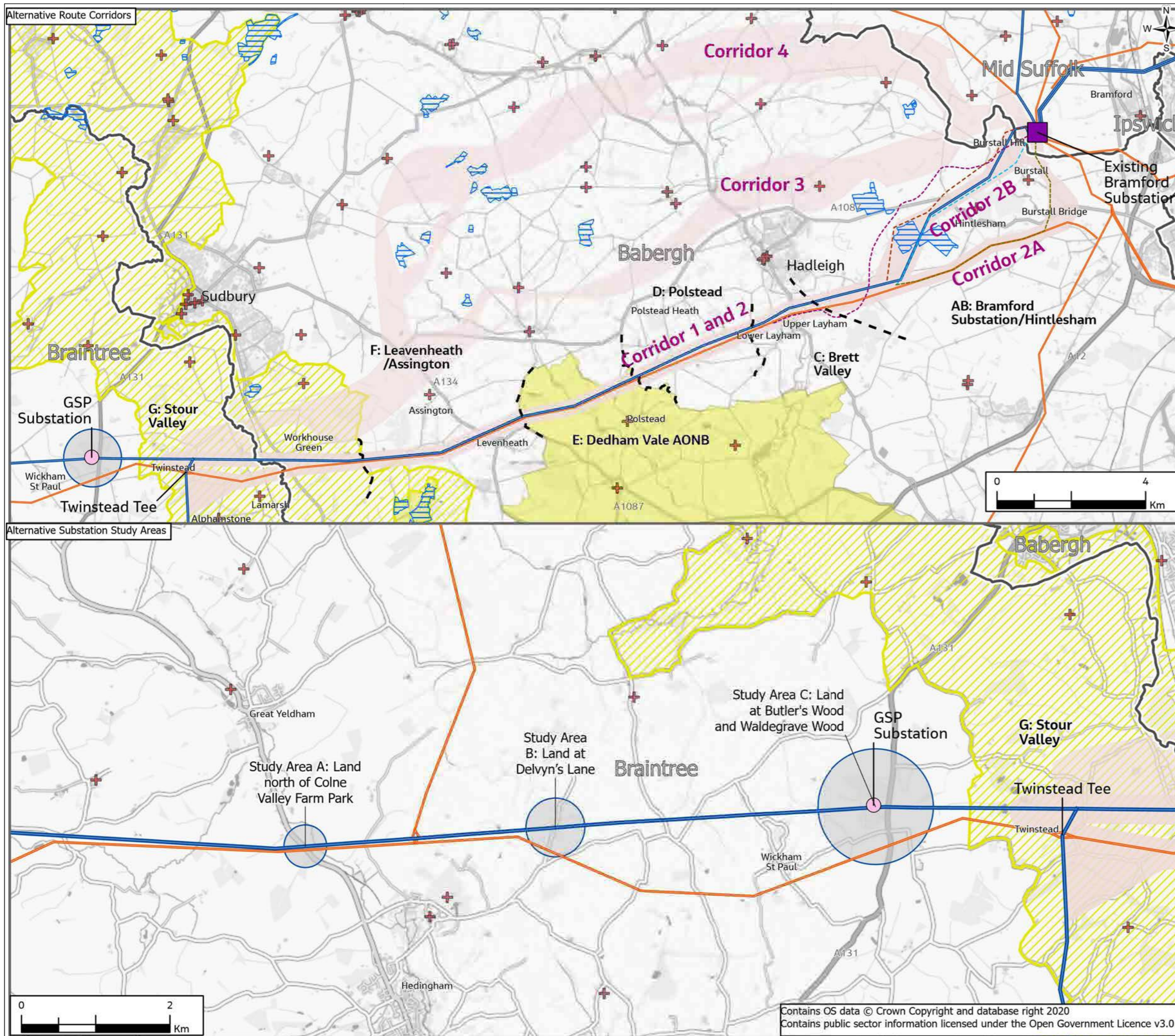
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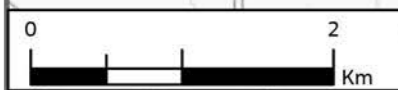
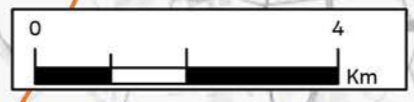
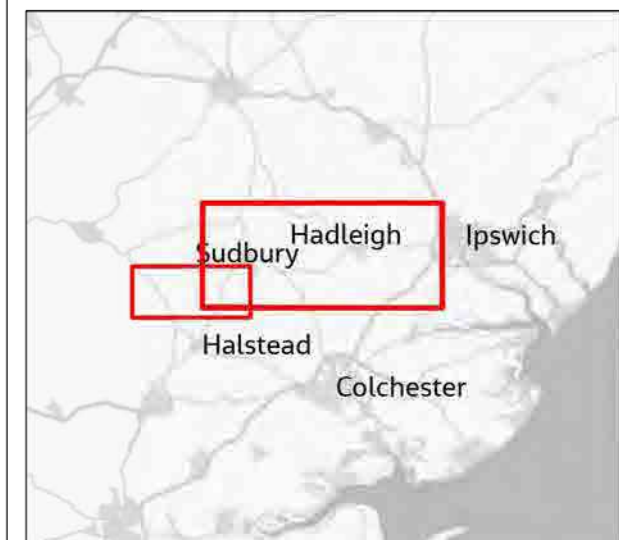
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FIGURE 3.1



- Legend**
- Section boundaries
  - ▭ Local authority districts
  - Existing Bramford Substation
  - Proposed Grid Supply Point (GSP) Substation
  - Existing 400kV overhead line
  - Existing 132kV overhead line
  - Route corridors
  - ▭ Substation study areas
- Alternative options at Hintlesham**
- Corridor 2A alignment
  - Northern alignment – corridor 2B
  - Southern alignment – corridor 2B
  - Underground cable
- Key Environmental Features**
- ⊕ Grade 1 Listed Building
  - ▭ Site of Special Scientific Interest (SSSI)
  - ▭ Stour Valley Project Area
  - ▭ Area of Outstanding Natural Beauty (AONB)

Corridor 1 parallels the existing 400kV overhead line and Corridor 2 adopts the 132kV overhead line



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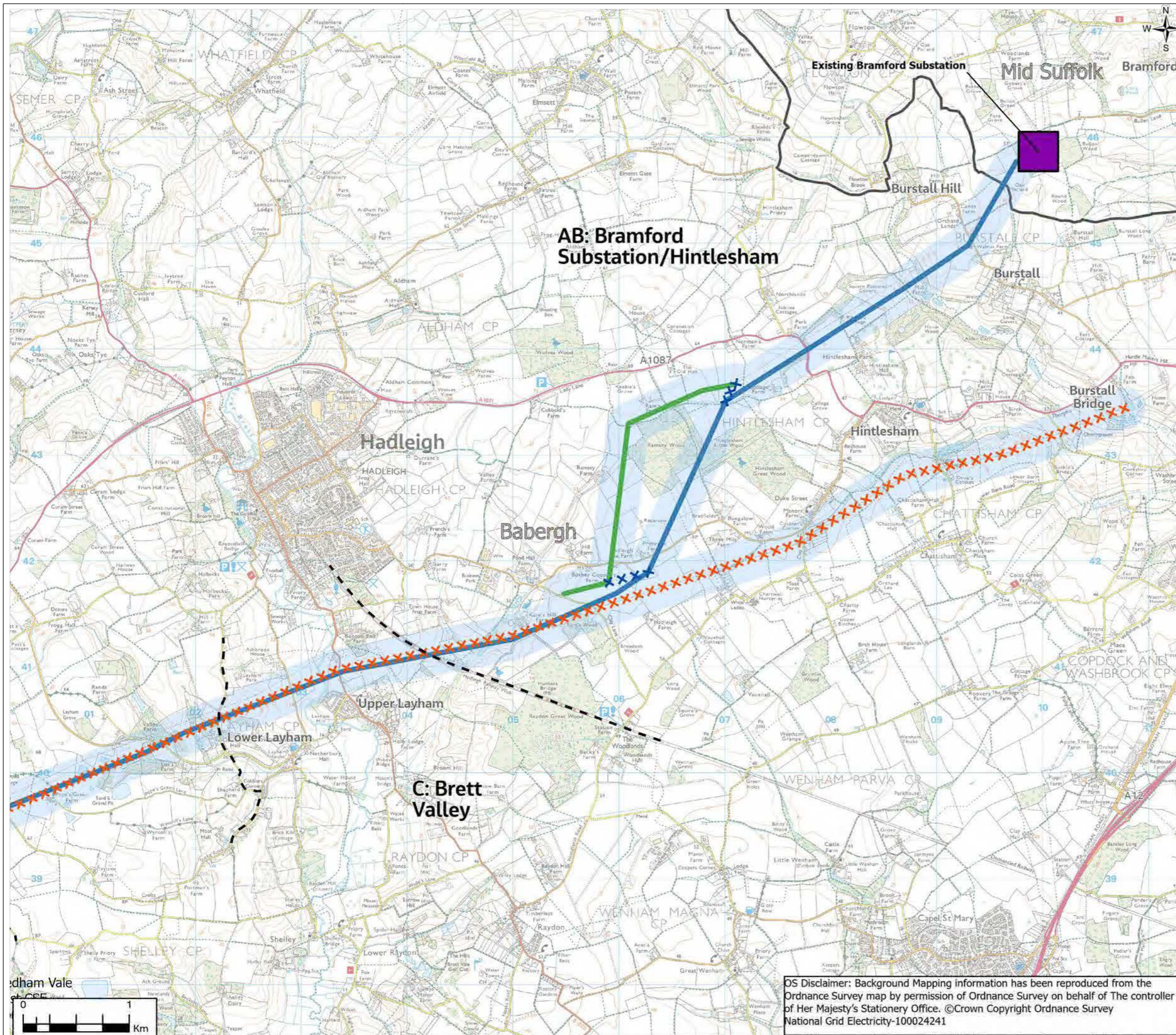
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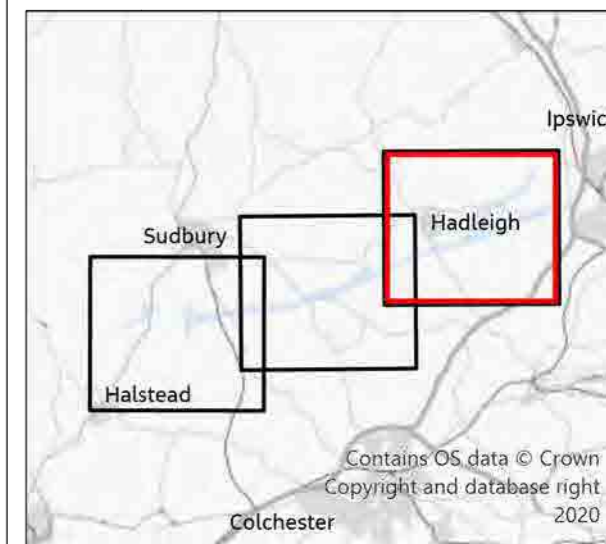
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**FIGURE 4.1**



- Legend**
- Section boundaries
  - ▭ Scoping Boundary
  - Existing infrastructure**
  - ▭ Existing Bramford Substation
  - Indicative Alignment**
  - Proposed 400kV overhead line
  - Proposed realignment of existing 400kV overhead line
  - Proposed 132kV underground cable
  - Proposed 400kV underground cable
  - Dollops Wood alternative options
  - Other Project Features**
  - Modification works to 400kV overhead line
  - Modification works to 132kV overhead line
  - ✕✕ Proposed overhead line removal - 132kV
  - ✕✕ Proposed overhead line removal - 400kV
  - ▭ Proposed Grid Supply Point (GSP) Substation
  - Proposed cable sealing end (CSE) compounds
  - ⊕ Proposed Trenchless Crossing



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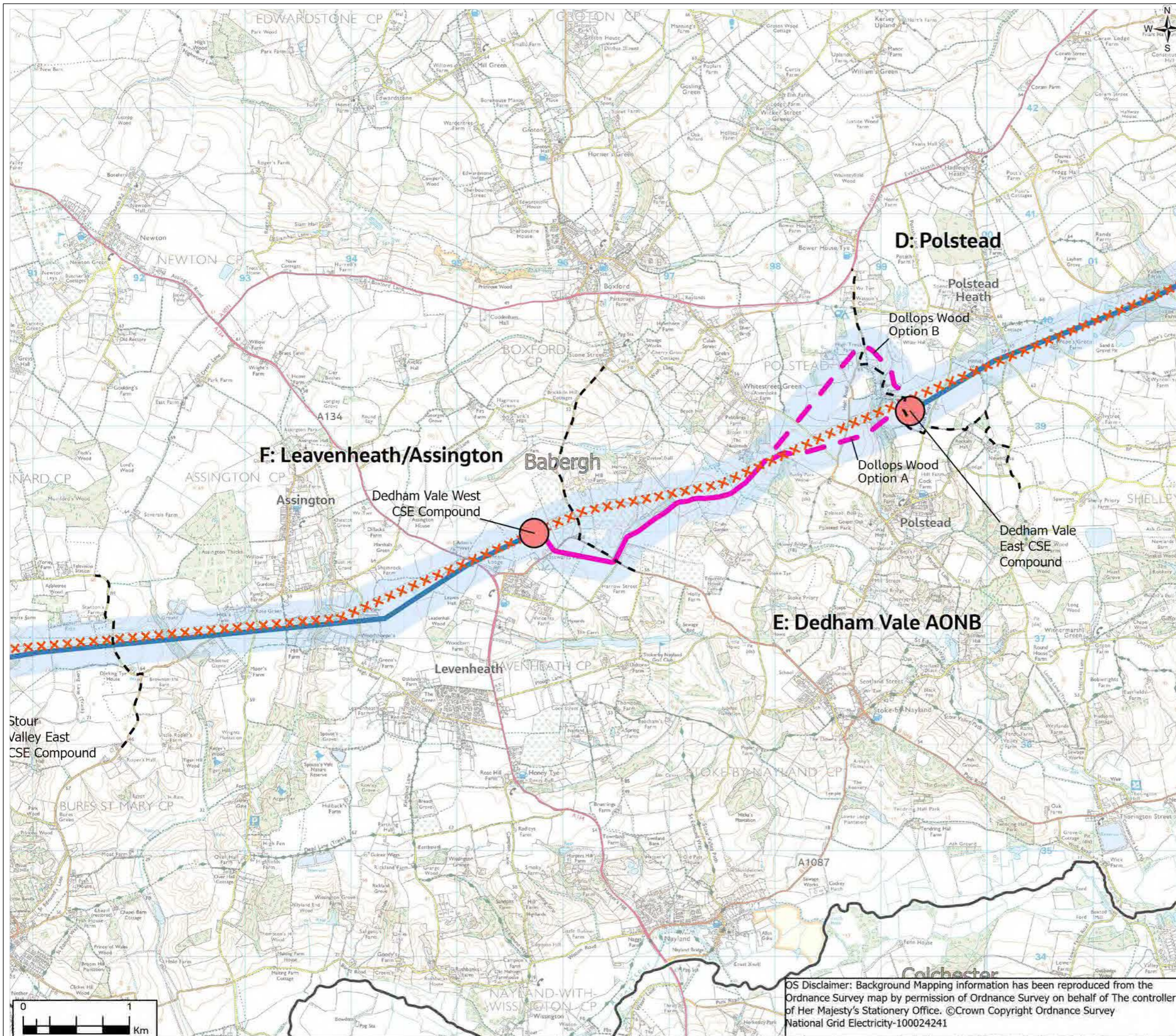
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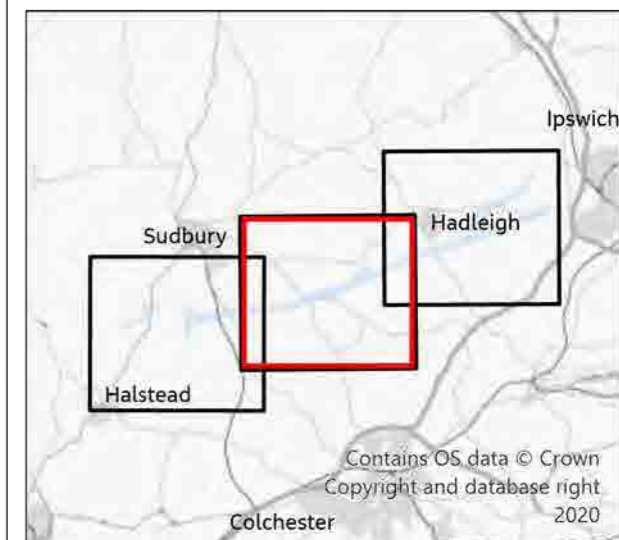
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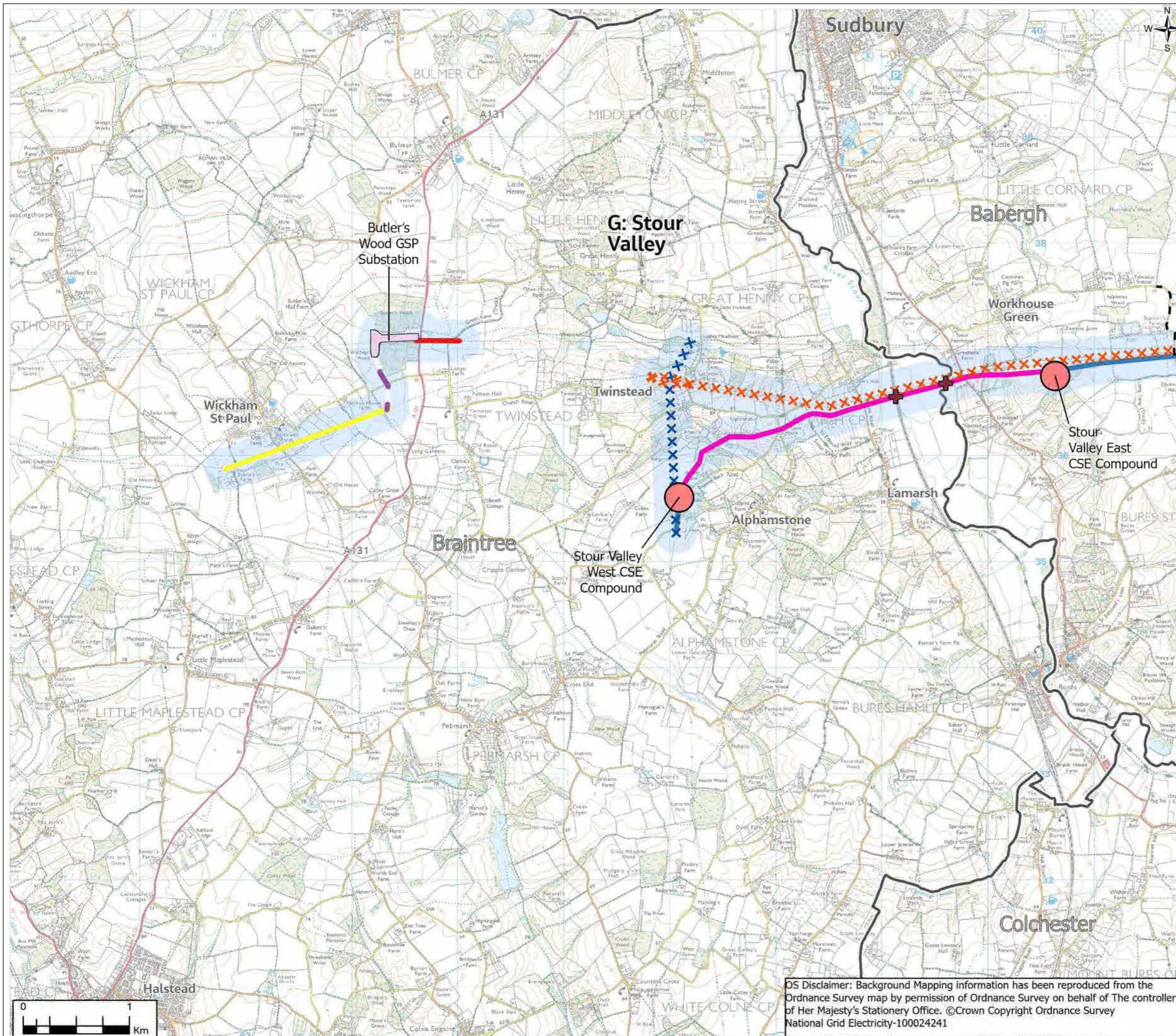
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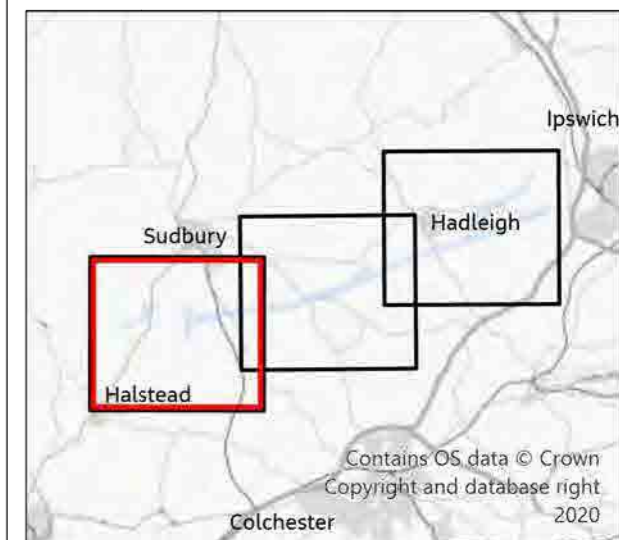
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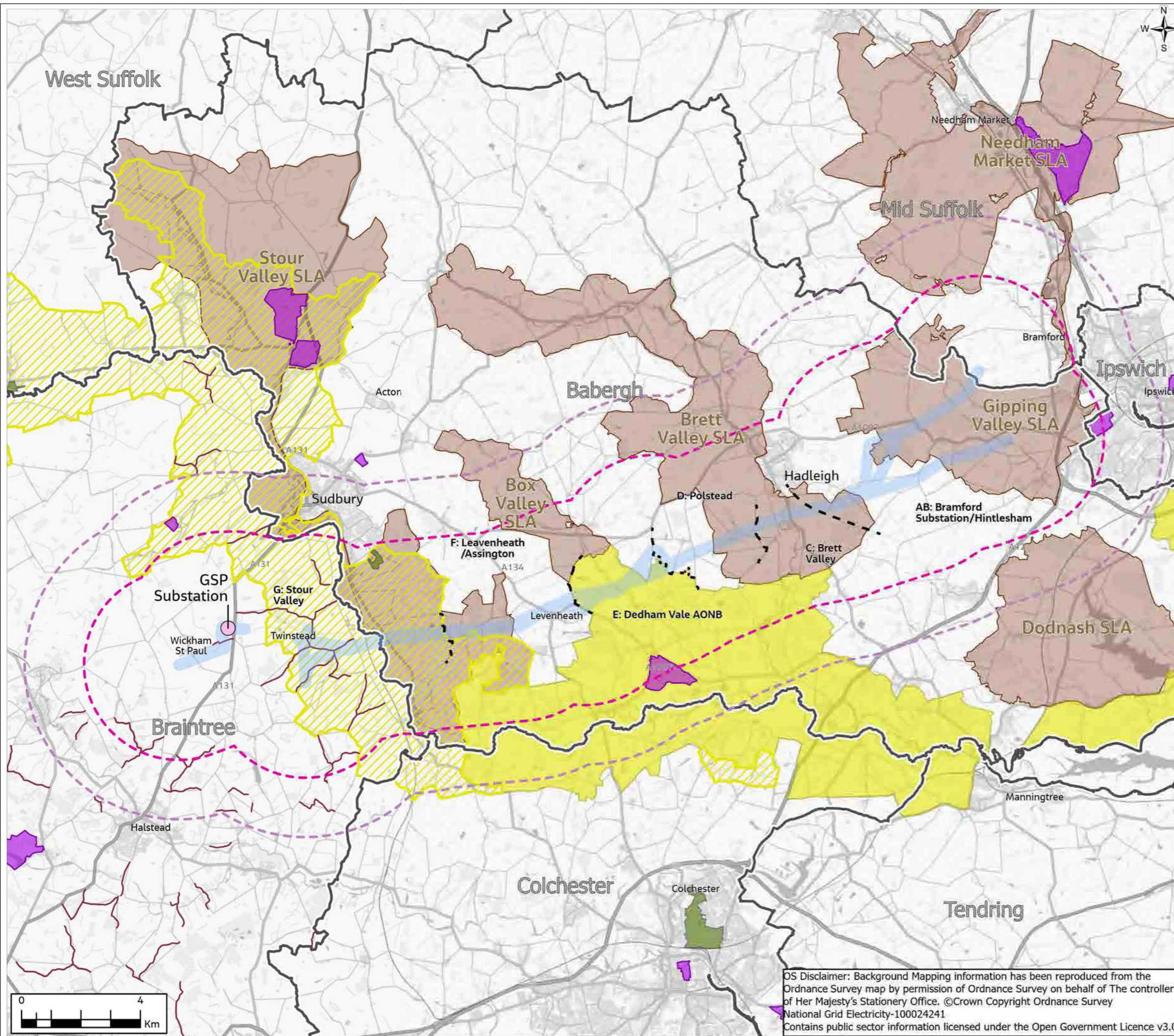
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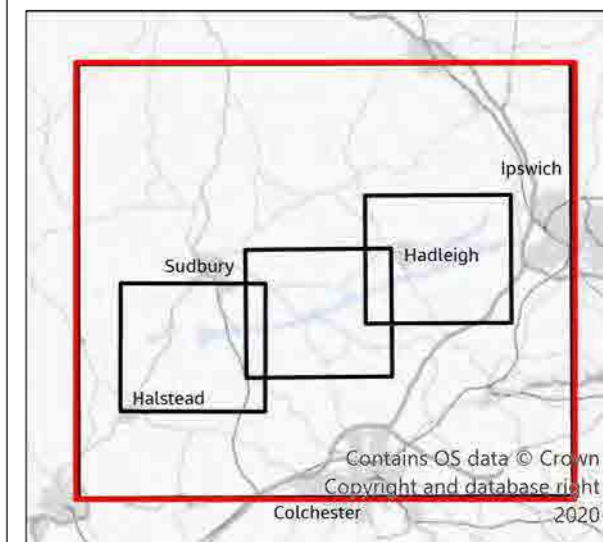
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**FIGURE 6.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Distance marker (3km)
  - Study area (5km)
  - Local authority districts
  - Protected Lanes
  - Country Parks
  - Stour Valley Project Area
  - Special Landscape Areas (SLA)
  - Registered Parks and Gardens
  - Area of Outstanding Natural Beauty (AONB)



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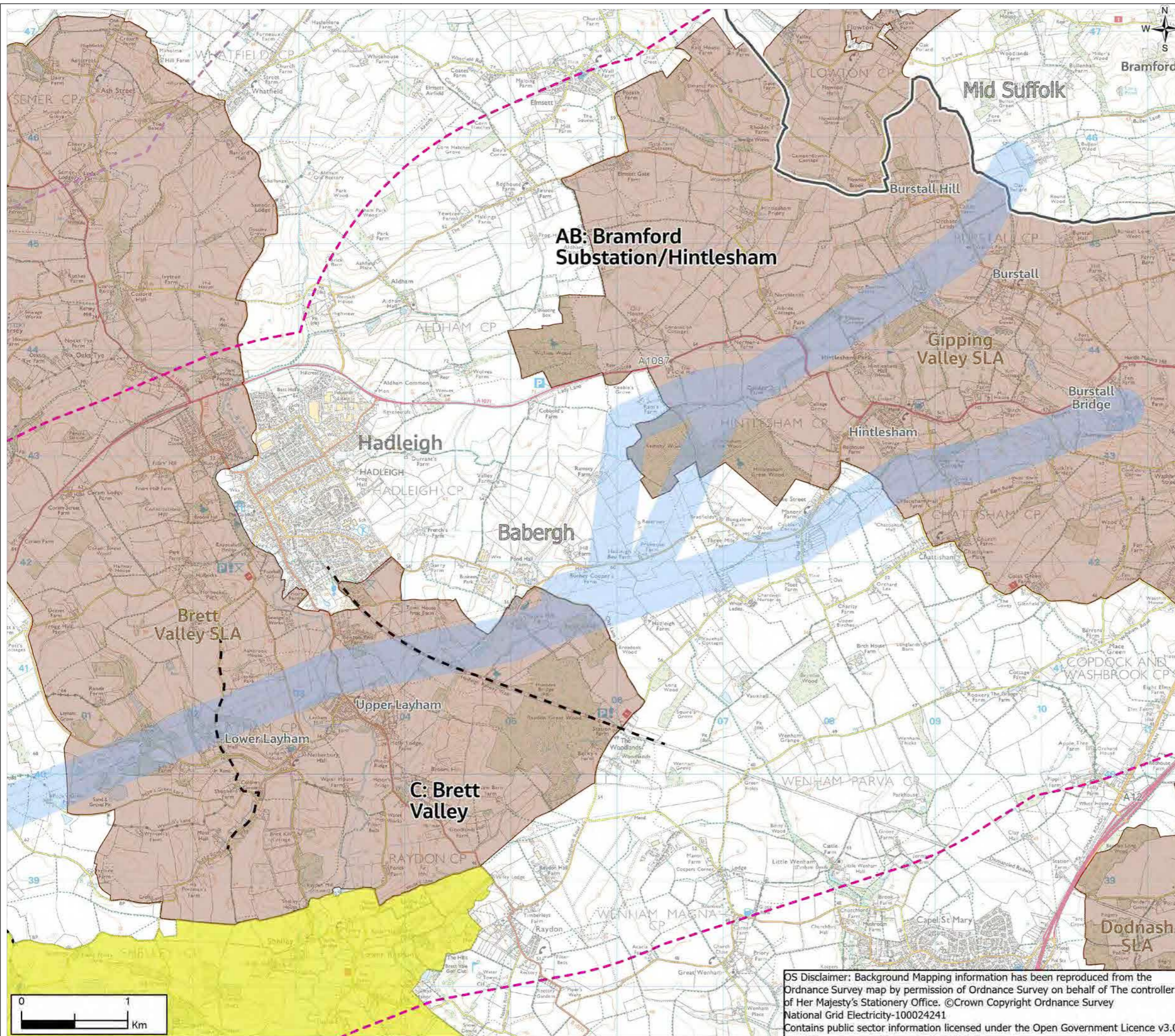
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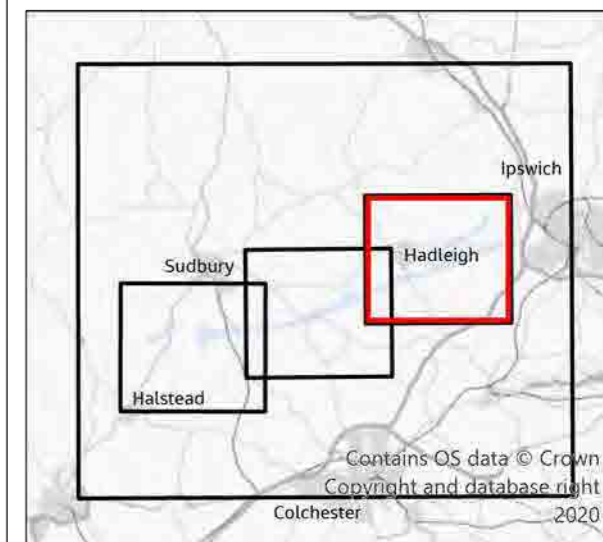
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  - Area of Outstanding Natural Beauty (AONB)



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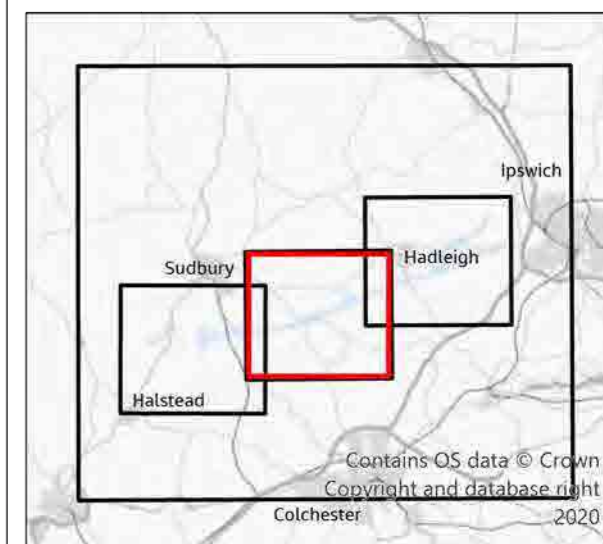
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**FIGURE 6.1**

**Legend**

- Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Distance marker (3km)
- Study area (5km)
- Local authority districts
- Protected Lanes
- Stour Valley Project Area
- Special Landscape Areas (SLA)
- Registered Parks and Gardens
- Area of Outstanding Natural Beauty (AONB)



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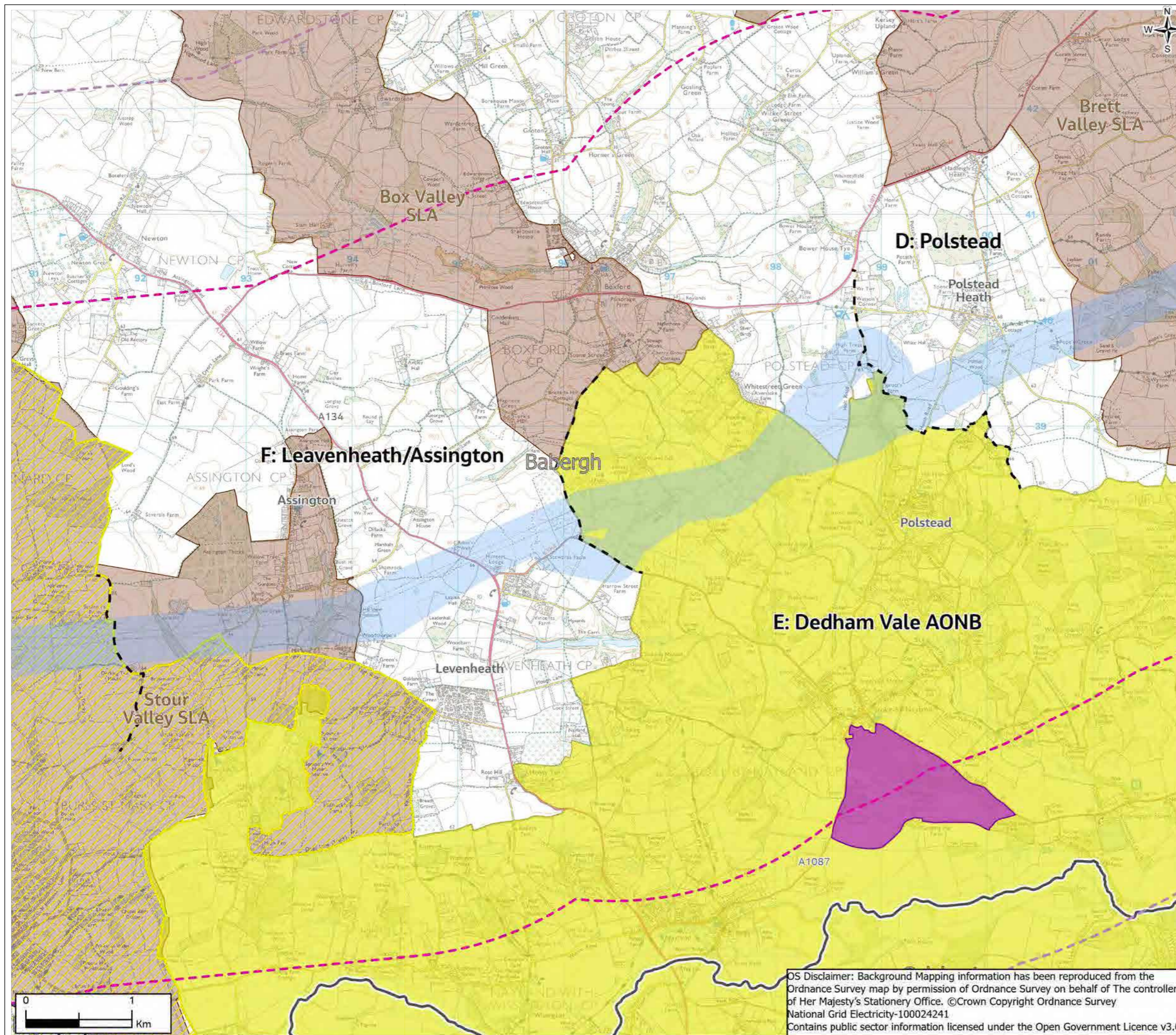
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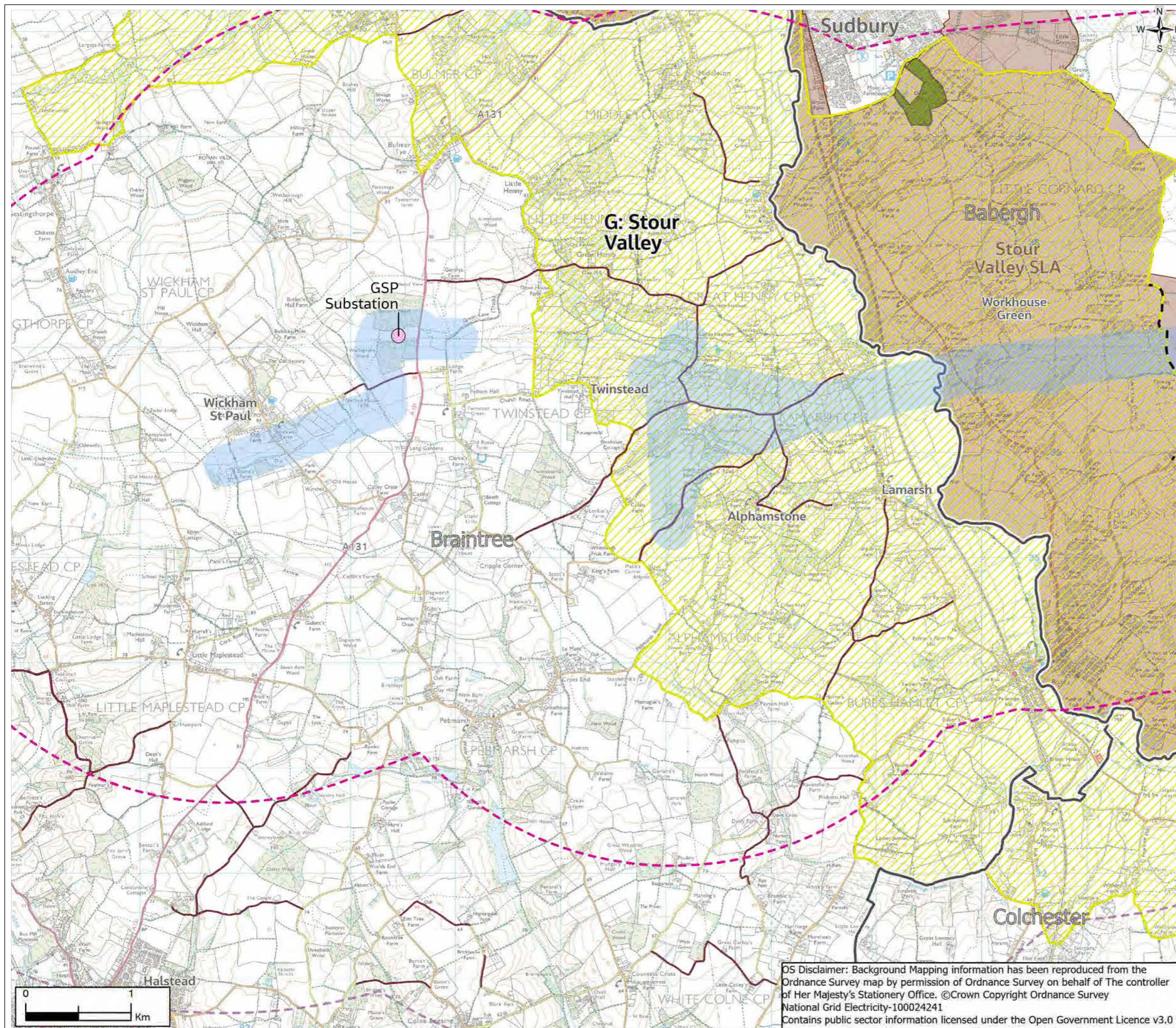
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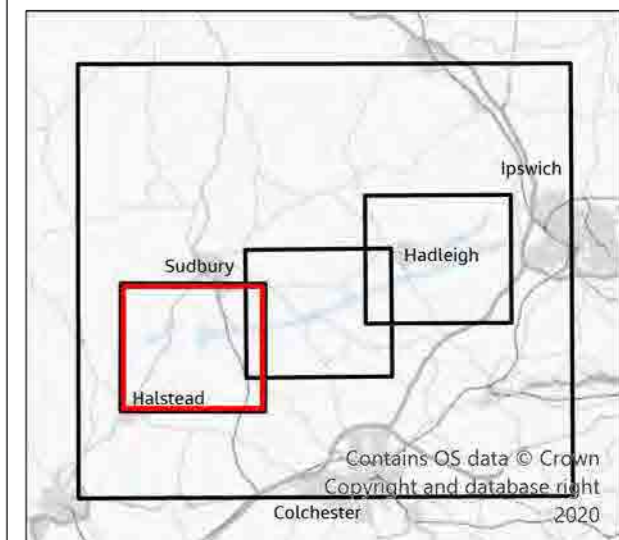


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  - Stour Valley Project Area
  - Special Landscape Areas (SLA)



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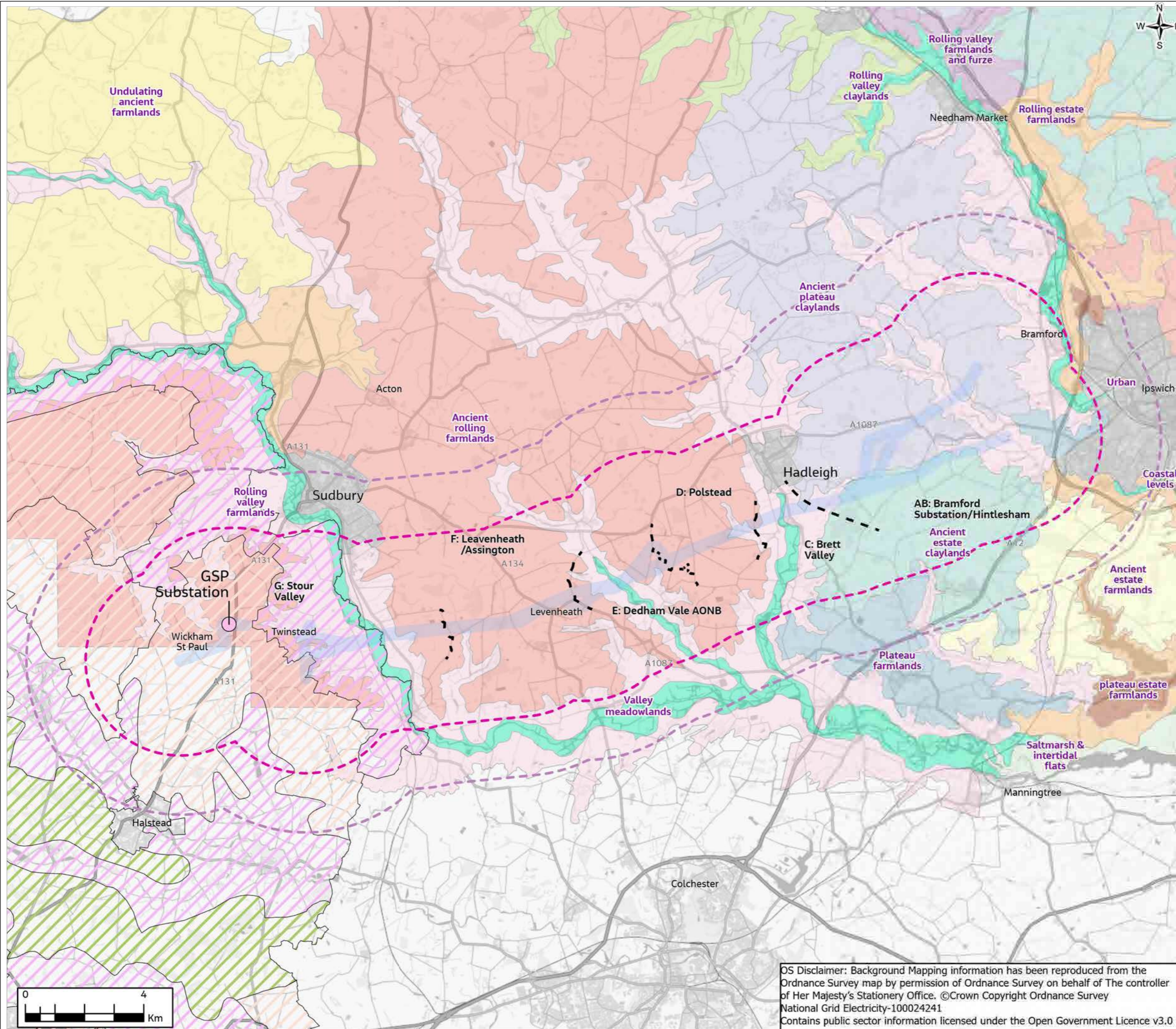
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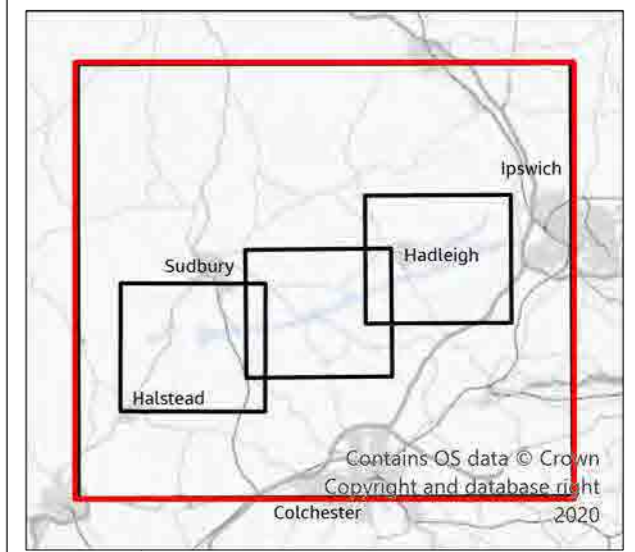
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**FIGURE 6.2**



- Legend**
- Section boundaries
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  - Distance marker (3km)
  - Study area (5km)
  - Plateau farmlands
  - Rolling estate farmlands
  - Rolling valley claylands
  - Rolling valley farmlands
  - Rolling valley farmlands and furze
  - Saltmarsh & intertidal flats
  - Undulating ancient farmlands
  - Urban
  - Valley meadowlands
- Babergh and Mid Suffolk District Council Local Landscape Character Areas**
- Ancient estate claylands
  - Ancient estate farmlands
  - Ancient plateau claylands
  - Ancient rolling farmlands
  - Coastal levels
  - Plateau estate farmlands
- Braintree District Council Local Landscape Character Areas**
- Plateau farmlands
  - River valley landscape
  - Wooded farmland



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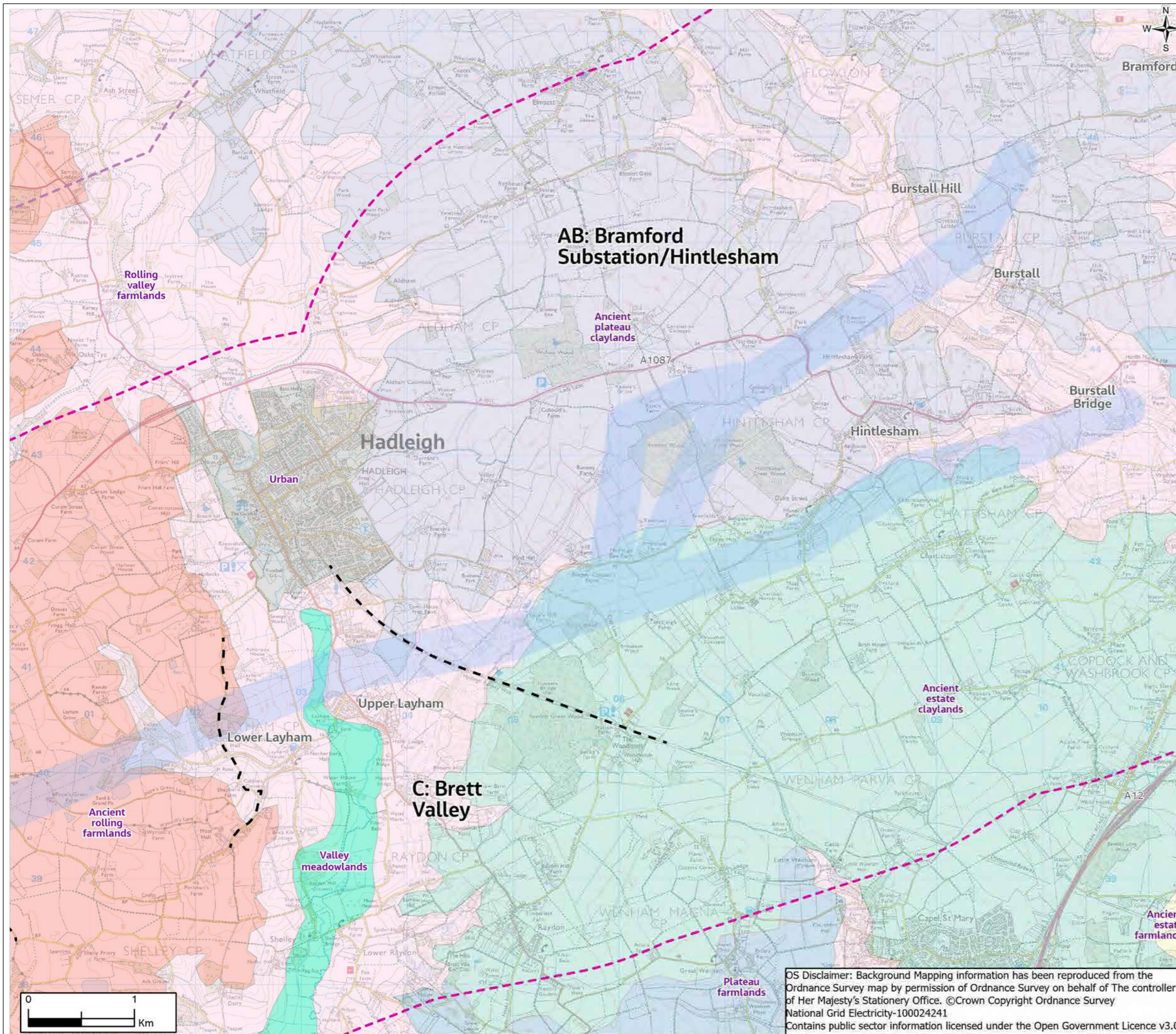
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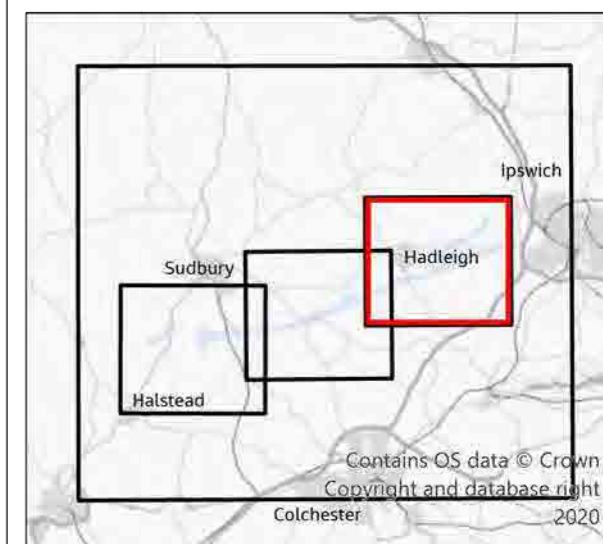


**Legend**

- - Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Distance marker (3km)
- Study area (5km)

**Babergh and Mid Suffolk District Council Local Landscape Character Areas**

- Ancient estate claylands
- Ancient estate farmlands
- Ancient plateau claylands
- Ancient rolling farmlands
- Plateau farmlands
- Rolling valley farmlands
- Urban
- Valley meadowlands



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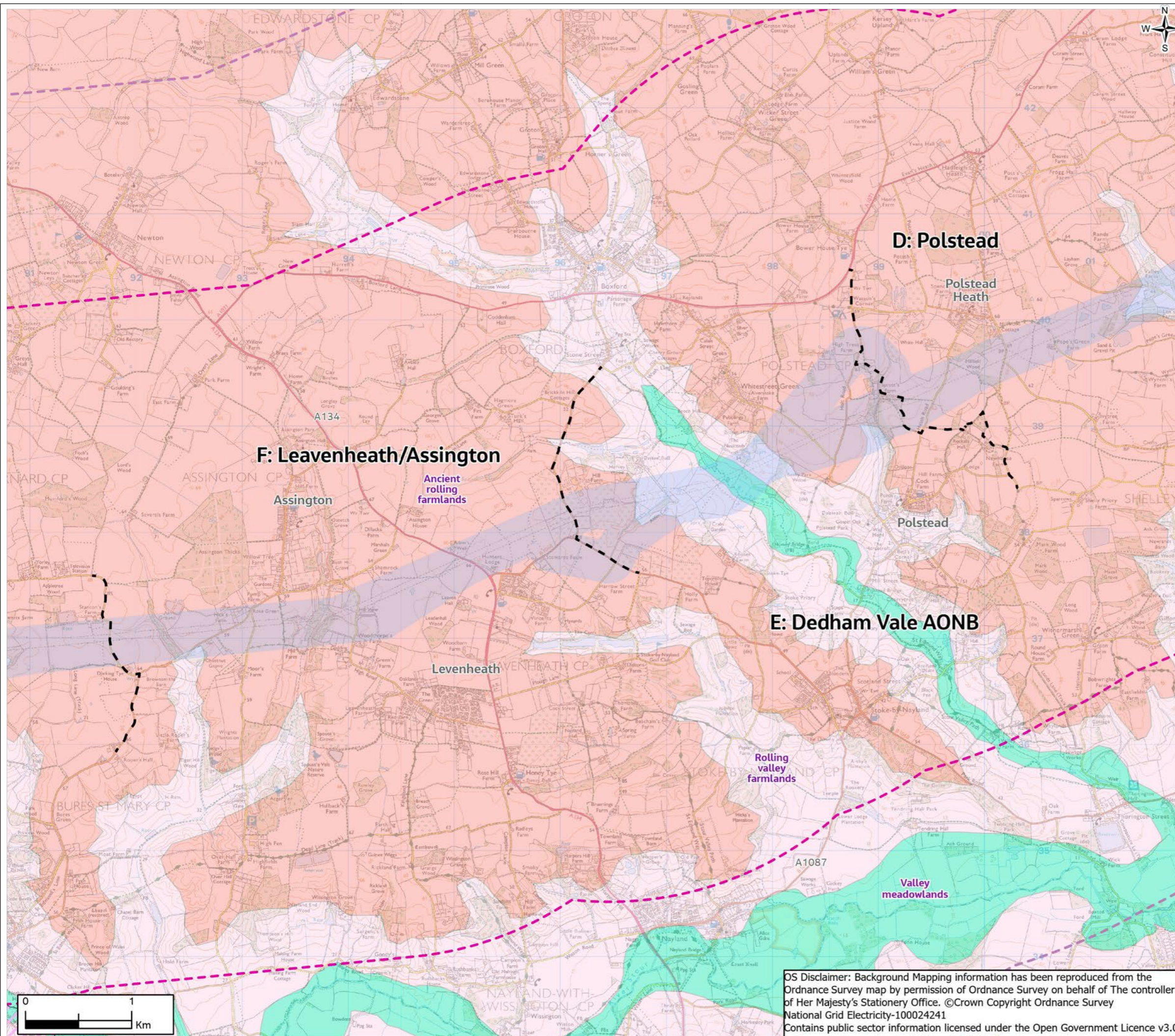
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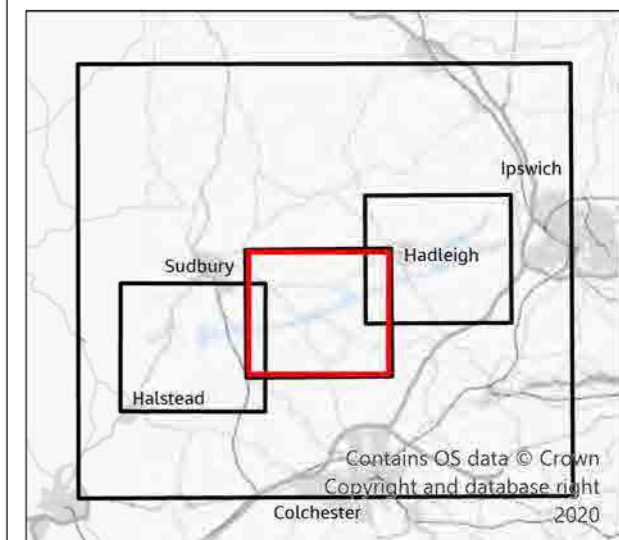
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- - Section boundaries
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  - Distance marker (3km)
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**Babergh and Mid Suffolk District Council Local Landscape Character Areas**

- Ancient rolling farmlands
- Rolling valley farmlands
- Valley meadowlands

**Braintree District Council Local Landscape Character Areas**

- River valley landscape



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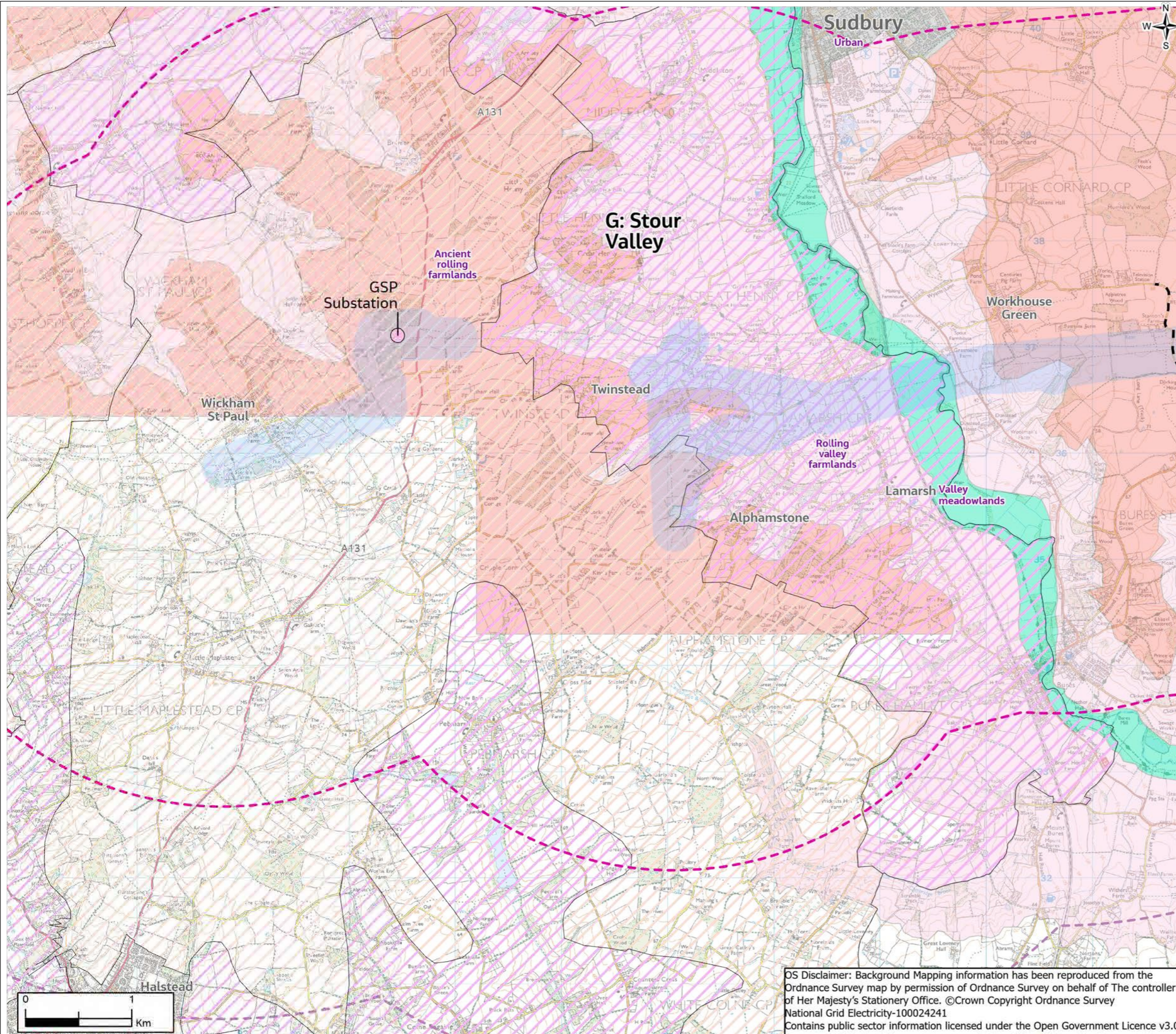
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**FIGURE 6.2**



**Legend**

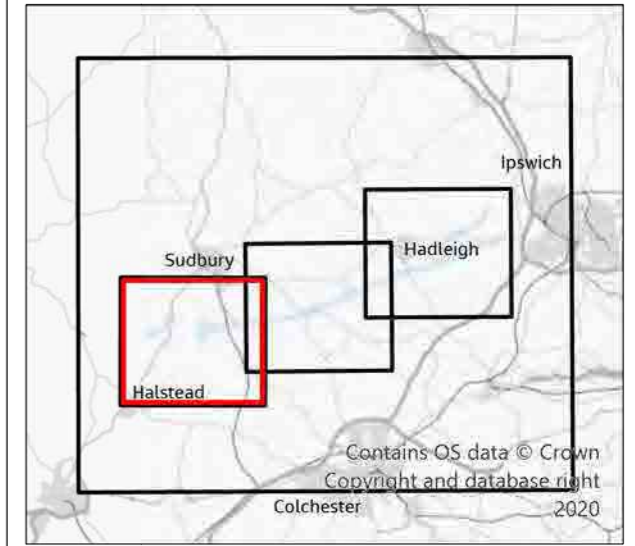
- - Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Distance marker (3km)
- Study area (5km)

**Babergh and Mid Suffolk District Council Local Landscape Character Areas**

- Ancient rolling farmlands
- Rolling valley farmlands
- Urban
- Valley meadowlands

**Braintree District Council Local Landscape Character Areas**

- Plateau farmlands
- River valley landscape



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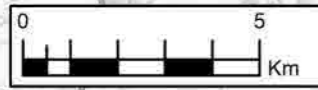
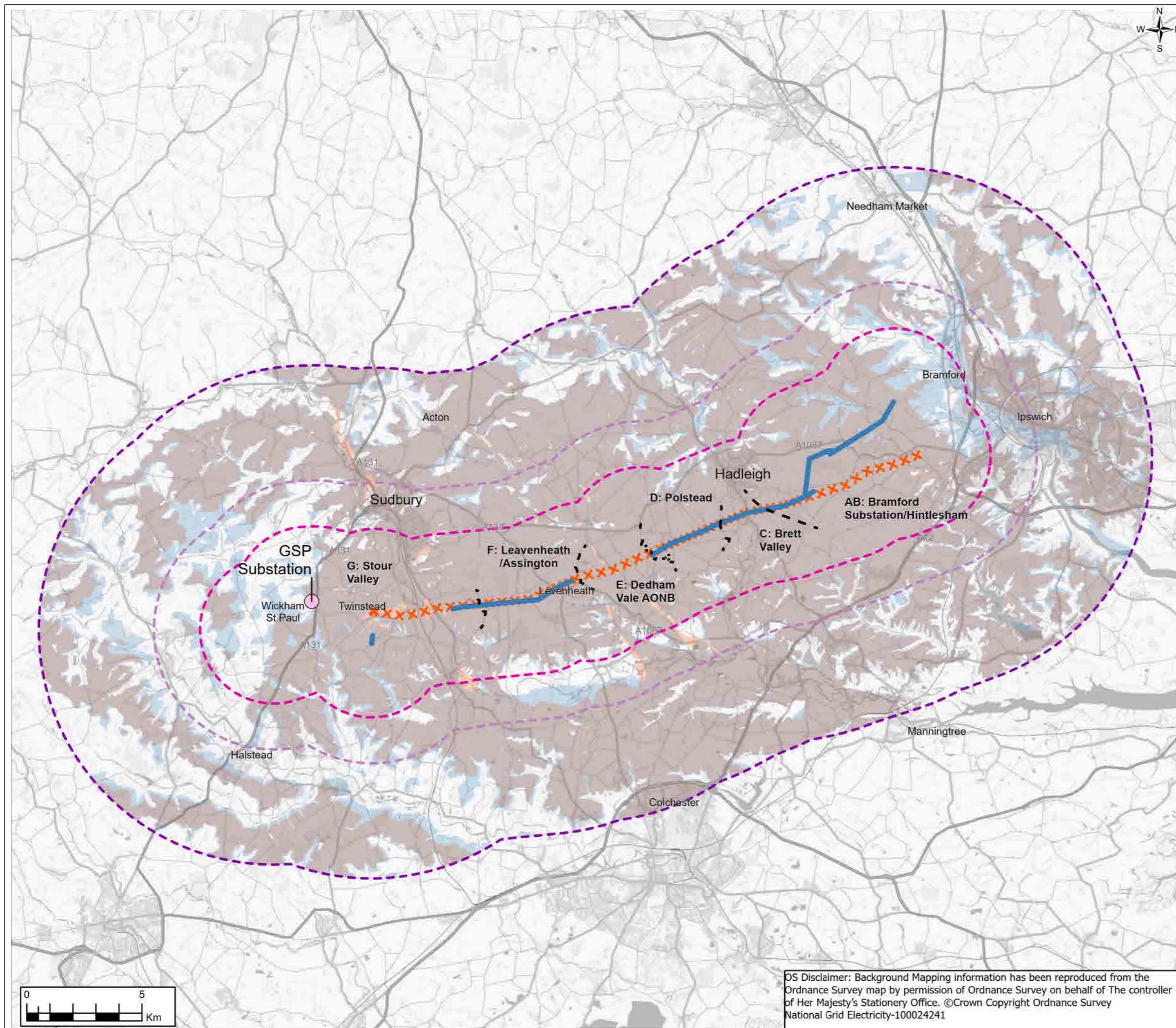
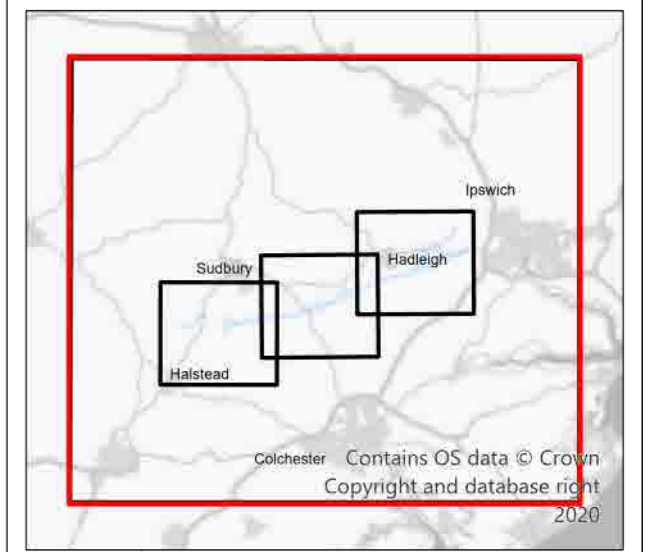
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**FIGURE 6.3**

- Legend**
- - Section boundaries
  - Proposed 400kV overhead line
  - XX Existing 132kV overhead line (to be removed)
  - Proposed Grid Supply Point (GSP) Substation
  - Cumulative Assessment study area (10km)
  - Study area (5km)
  - Distance marker (3km)
  - Overlapping indicative ZTV of existing 132kV overhead line (to be removed) and proposed 400kV overhead line
  - Additional areas of indicative ZTV of existing 132kV overhead line (to be removed)
  - Additional areas of indicative ZTV of proposed 400kV overhead line

Note: The indicative ZTVs illustrated in this figure are based on the overhead line elements of the project only. This is because the steel lattice towers of the proposed 400kV overhead line and the 132kV overhead line to be removed are the tallest components of the project. This draft ZTV demonstrates that the difference in extent of theoretical visibility (worst case scenario) between the proposed 400kV overhead line



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 Draft Zone of Theoretical Visibility (ZTV)  
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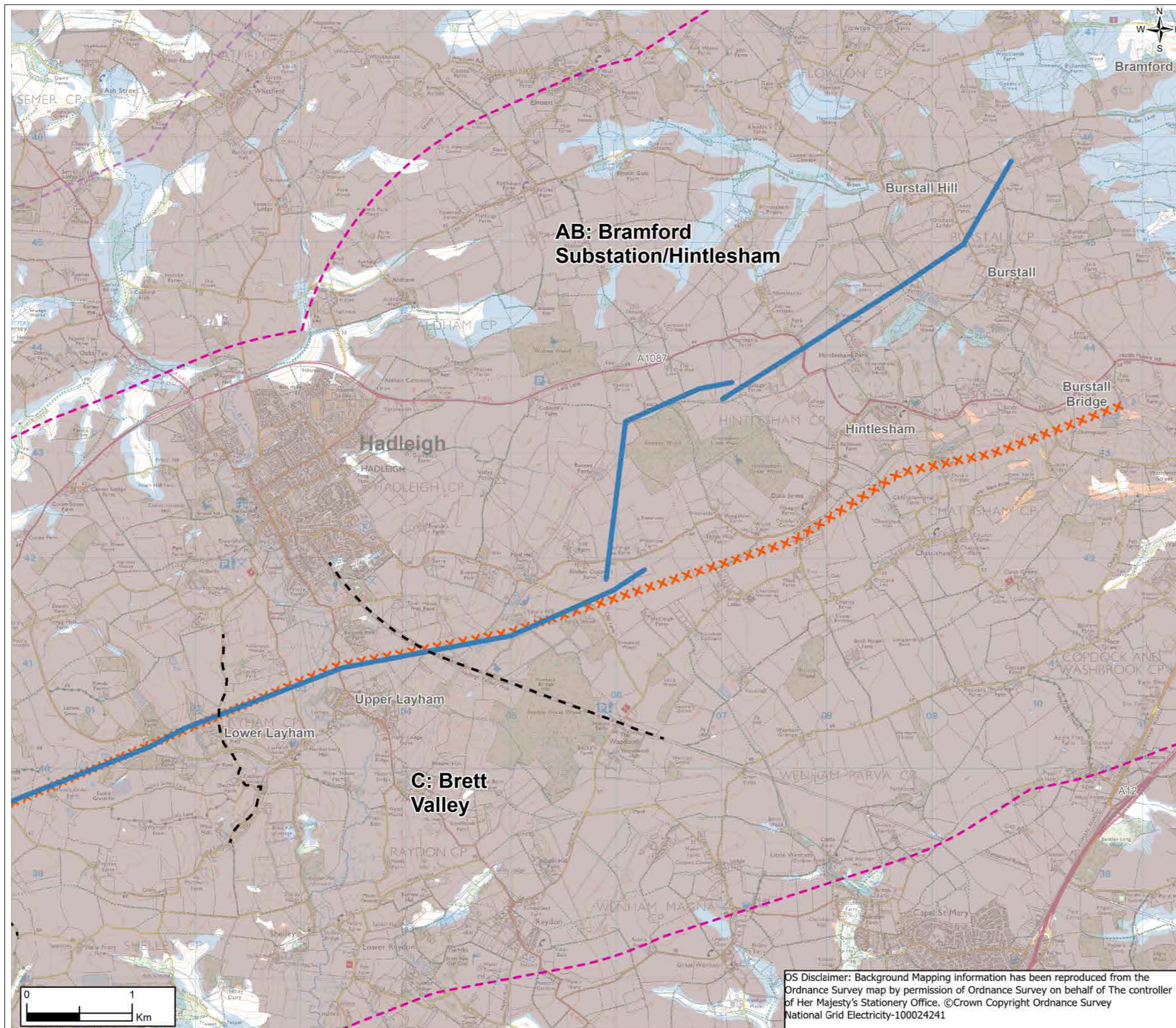
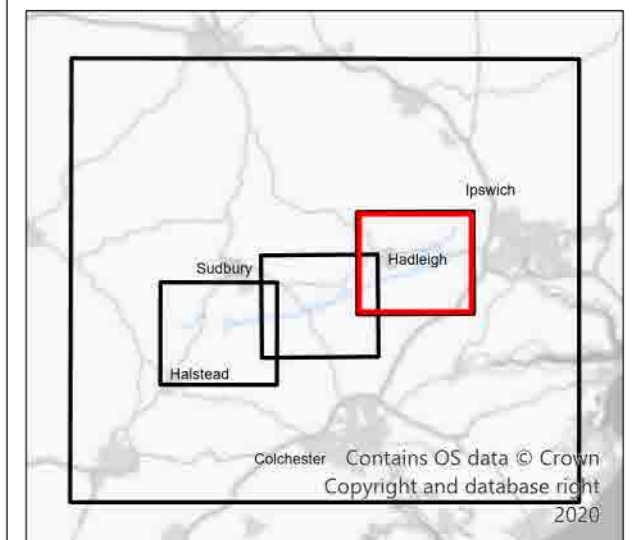
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**FIGURE 6.3**

- Legend**
- - Section boundaries
  - Proposed 400kV overhead line
  - ✕✕ Existing 132kV overhead line (to be removed)
  - Proposed Grid Supply Point (GSP) Substation
  - ▭ Cumulative Assessment study area (10km)
  - ▭ Study area (5km)
  - ▭ Distance marker (3km)
  - Overlapping indicative ZTV of existing 132kV overhead line (to be removed) and proposed 400kV overhead line
  - Additional areas of indicative ZTV of existing 132kV overhead line (to be removed)
  - Additional areas of indicative ZTV of proposed 400kV overhead line

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Drawing Title  
 Draft Zone of Theoretical Visibility (ZTV)

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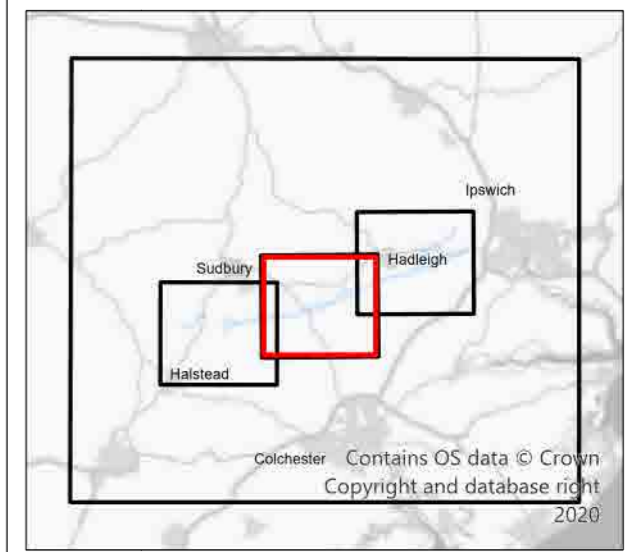
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**FIGURE 6.3**

- Legend**
- - Section boundaries
  - Proposed 400kV overhead line
  - XX Existing 132kV overhead line (to be removed)
  - Proposed Grid Supply Point (GSP) Substation
  - Cumulative Assessment study area (10km)
  - Study area (5km)
  - Distance marker (3km)
  - Overlapping indicative ZTV of existing 132kV overhead line (to be removed) and proposed 400kV overhead line
  - Additional areas of indicative ZTV of existing 132kV overhead line (to be removed)
  - Additional areas of indicative ZTV of proposed 400kV overhead line

Note: The indicative ZTVs illustrated in this figure are based on the overhead line elements of the project only. This is because the steel lattice towers of the proposed 400kV overhead line and the 132kV overhead line to be removed are the tallest components of the project. This draft ZTV demonstrates that the difference in extent of theoretical visibility (worst case scenario) between the proposed 400kV overhead line



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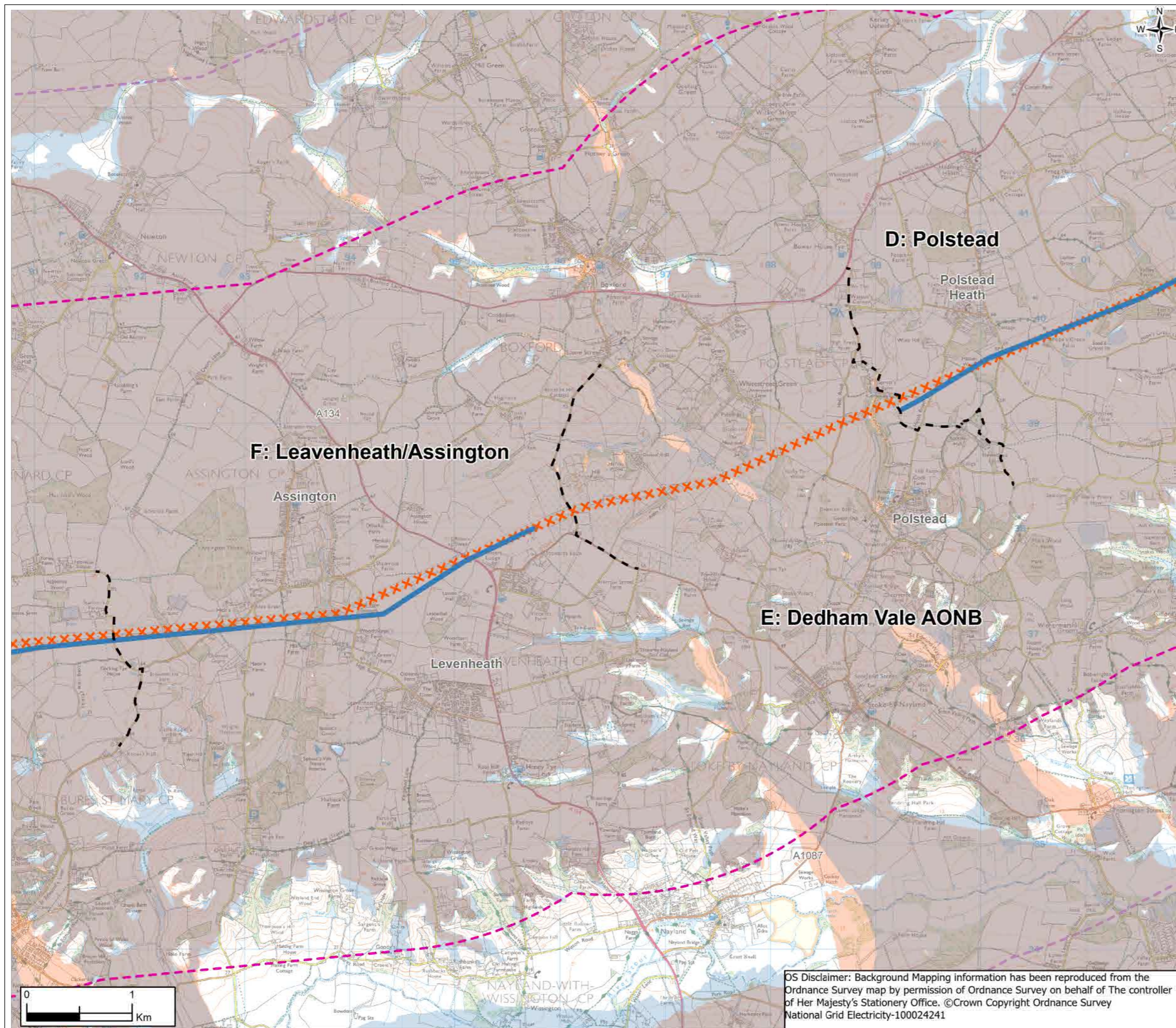
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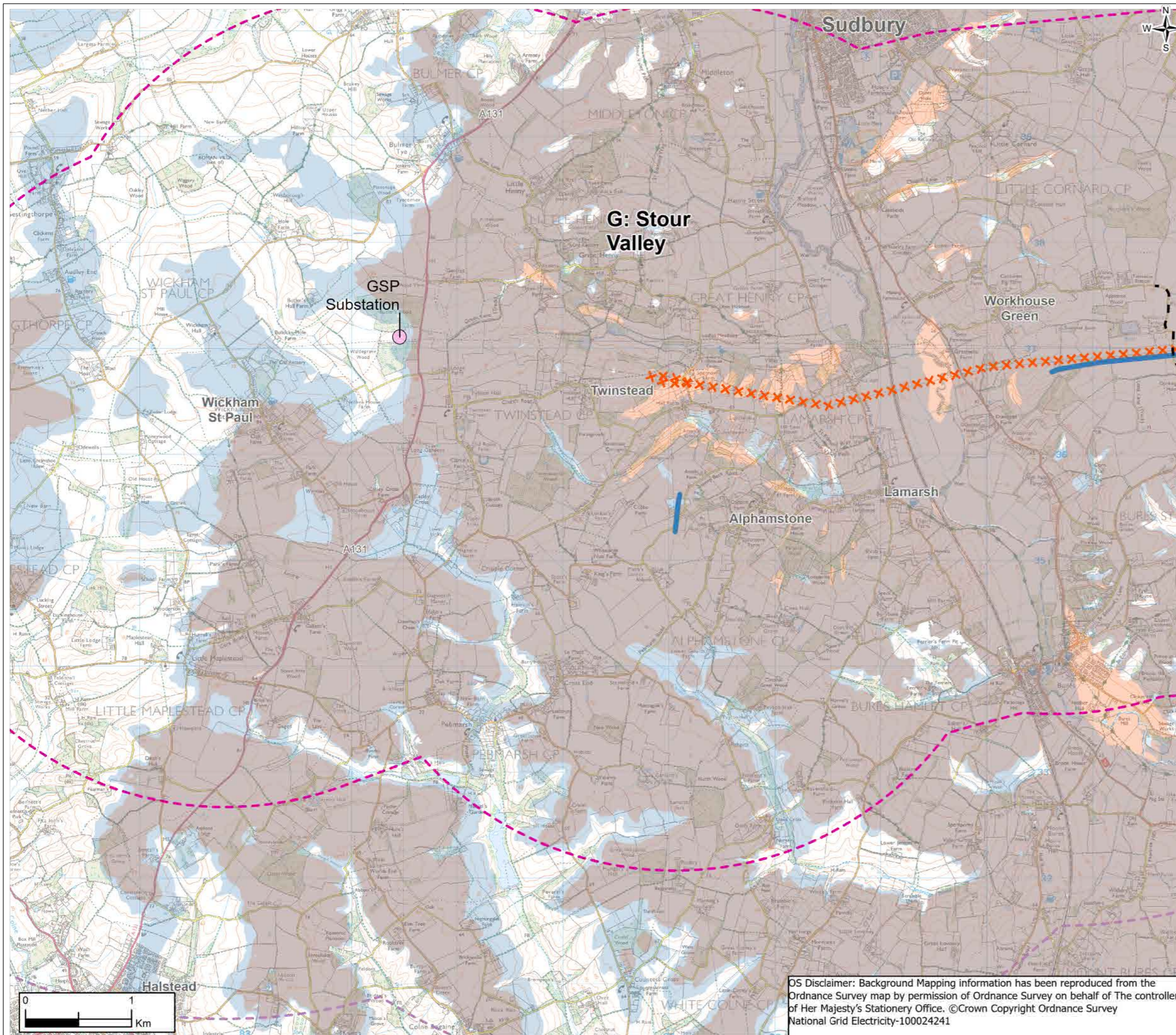
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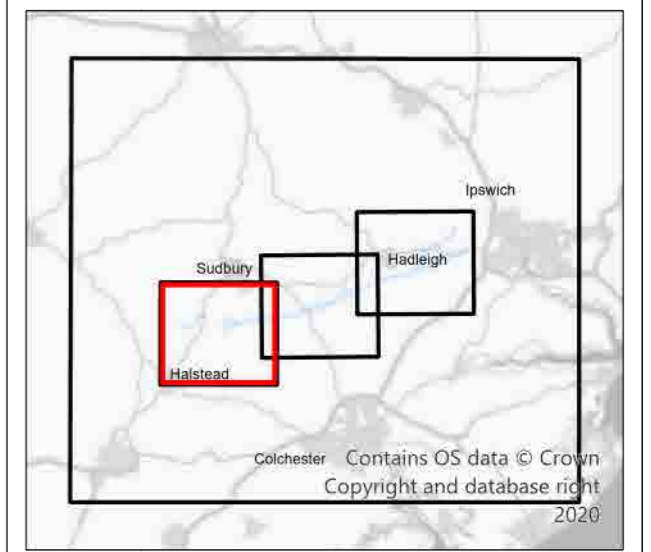




**FIGURE 6.3**

- Legend**
- - Section boundaries
  - Proposed 400kV overhead line
  - XX Existing 132kV overhead line (to be removed)
  - Proposed Grid Supply Point (GSP) Substation
  - ▭ Cumulative Assessment study area (10km)
  - ▭ Study area (5km)
  - ▭ Distance marker (3km)
  - Overlapping indicative ZTV of existing 132kV overhead line (to be removed) and proposed 400kV overhead line
  - Additional areas of indicative ZTV of existing 132kV overhead line (to be removed)
  - Additional areas of indicative ZTV of proposed 400kV overhead line

Note: The indicative ZTVs illustrated in this figure are based on the overhead line elements of the project only. This is because the steel lattice towers of the proposed 400kV overhead line and the 132kV overhead line to be removed are the tallest components of the project. This draft ZTV demonstrates that the difference in extent of theoretical visibility (worst case scenario) between the proposed 400kV overhead line



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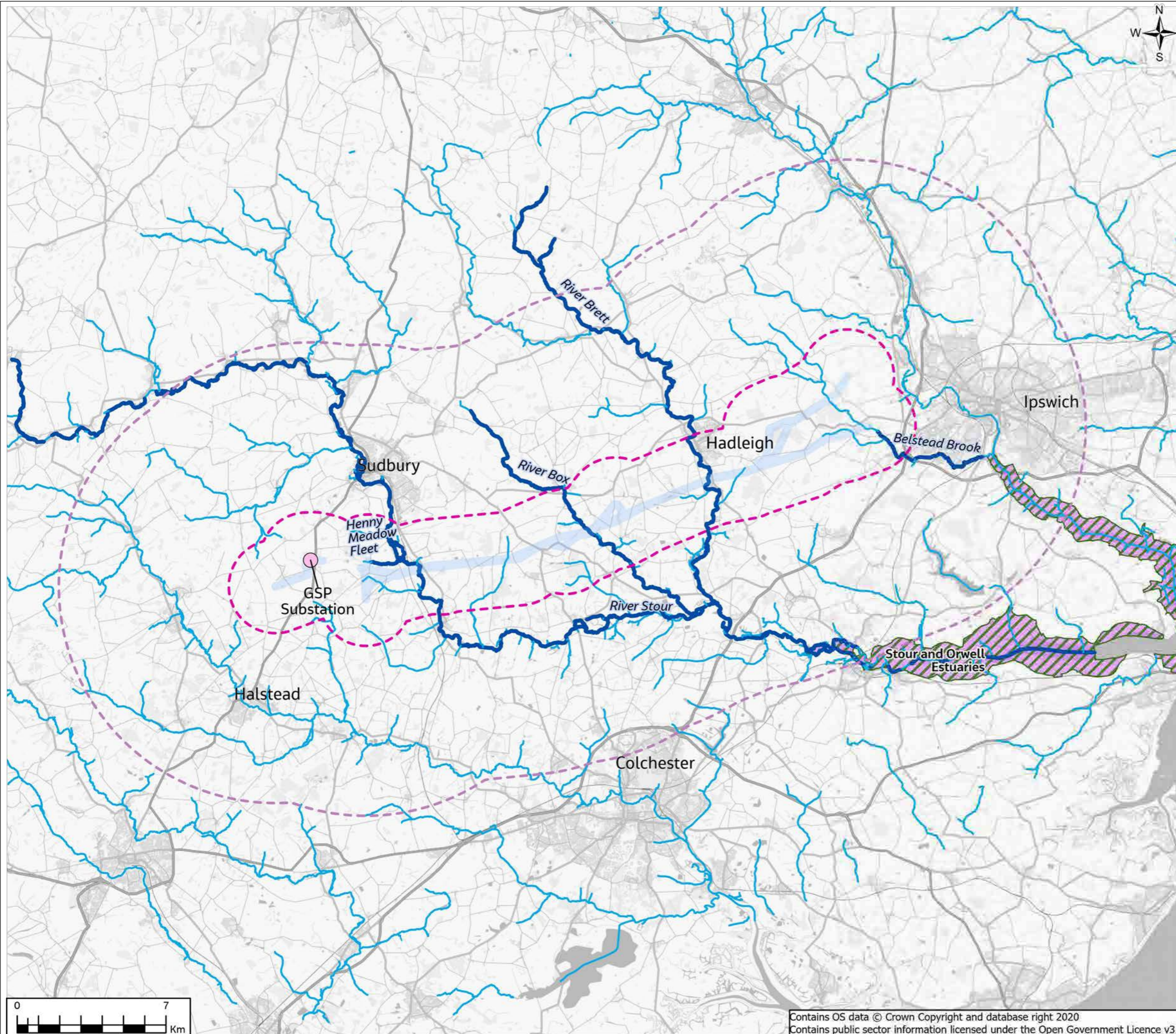
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**FIGURE 7.1**



- Legend**
- Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area for European Designated Sites (2km)
  - Study area for Hydrological Connections to European Designated Sites (10km)
  - Wetlands of International Importance (RAMSARs)
  - Special Protection Areas (SPA)
  - Main Rivers
  - Non-Main Rivers



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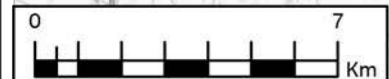
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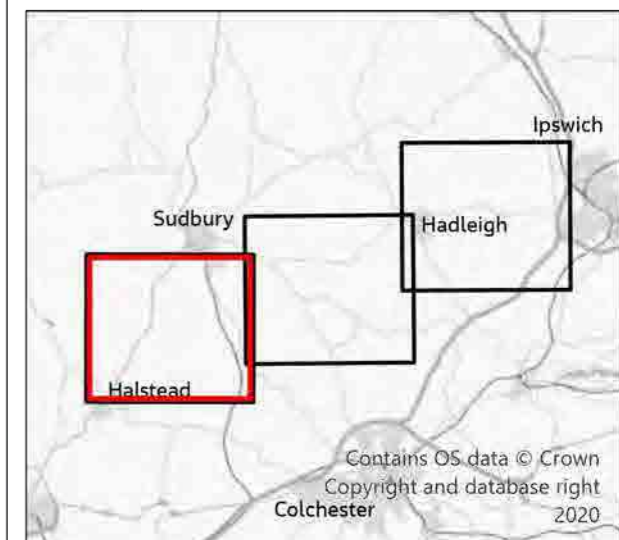
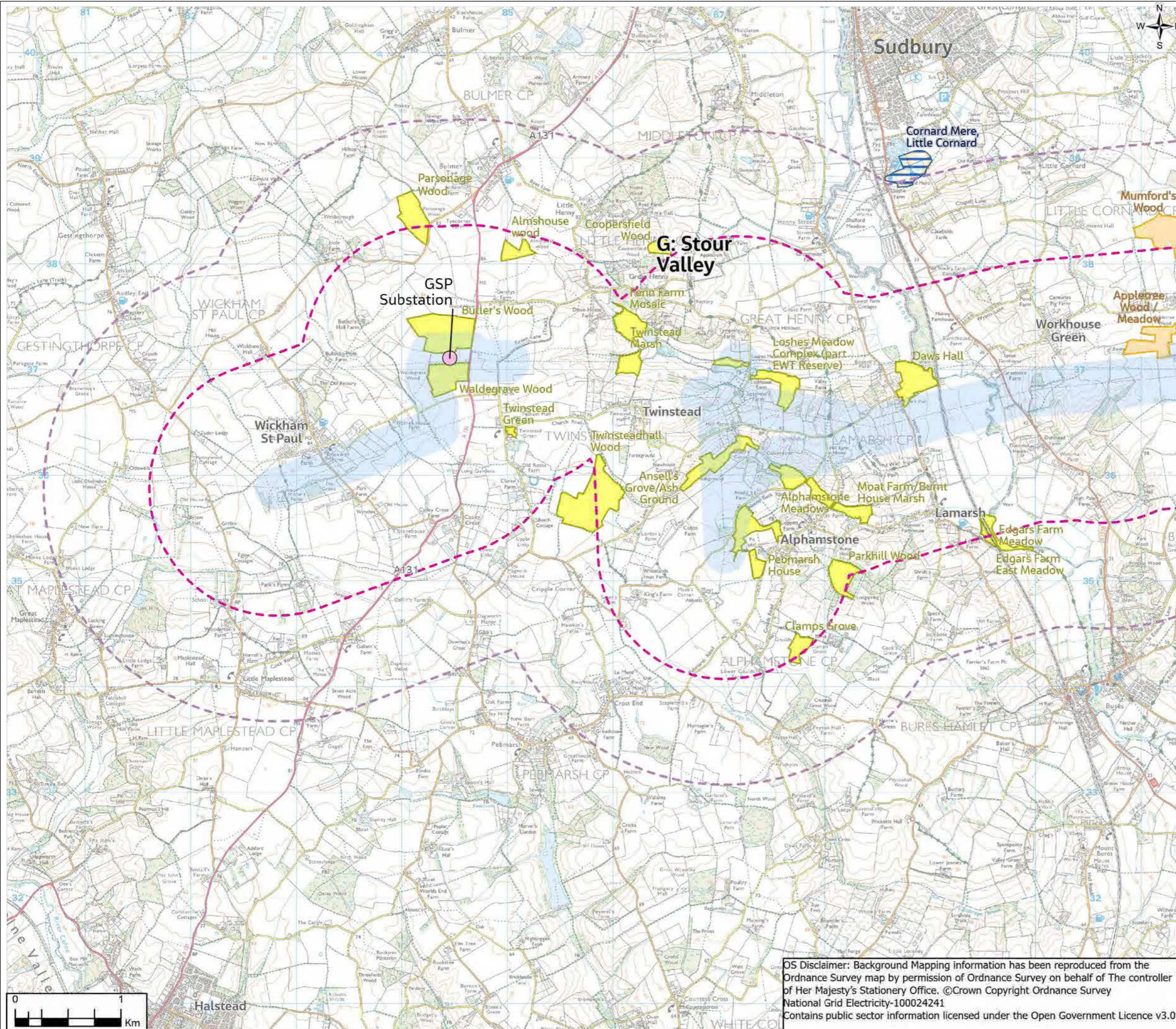




**FIGURE 7.2**

**Legend**

-  Scoping Boundary
-  Proposed Grid Supply Point (GSP) Substation
-  Study area for Non-Designated Sites (1km)
-  Study area for Designated Sites (2km)
-  Site of Special Scientific Interest (SSSI)
-  Local Wildlife Site (LWS)
-  County Wildlife Site (CWS)



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Statutory and Non-Statutory Sites Designated Sites  
Page 3 of 3

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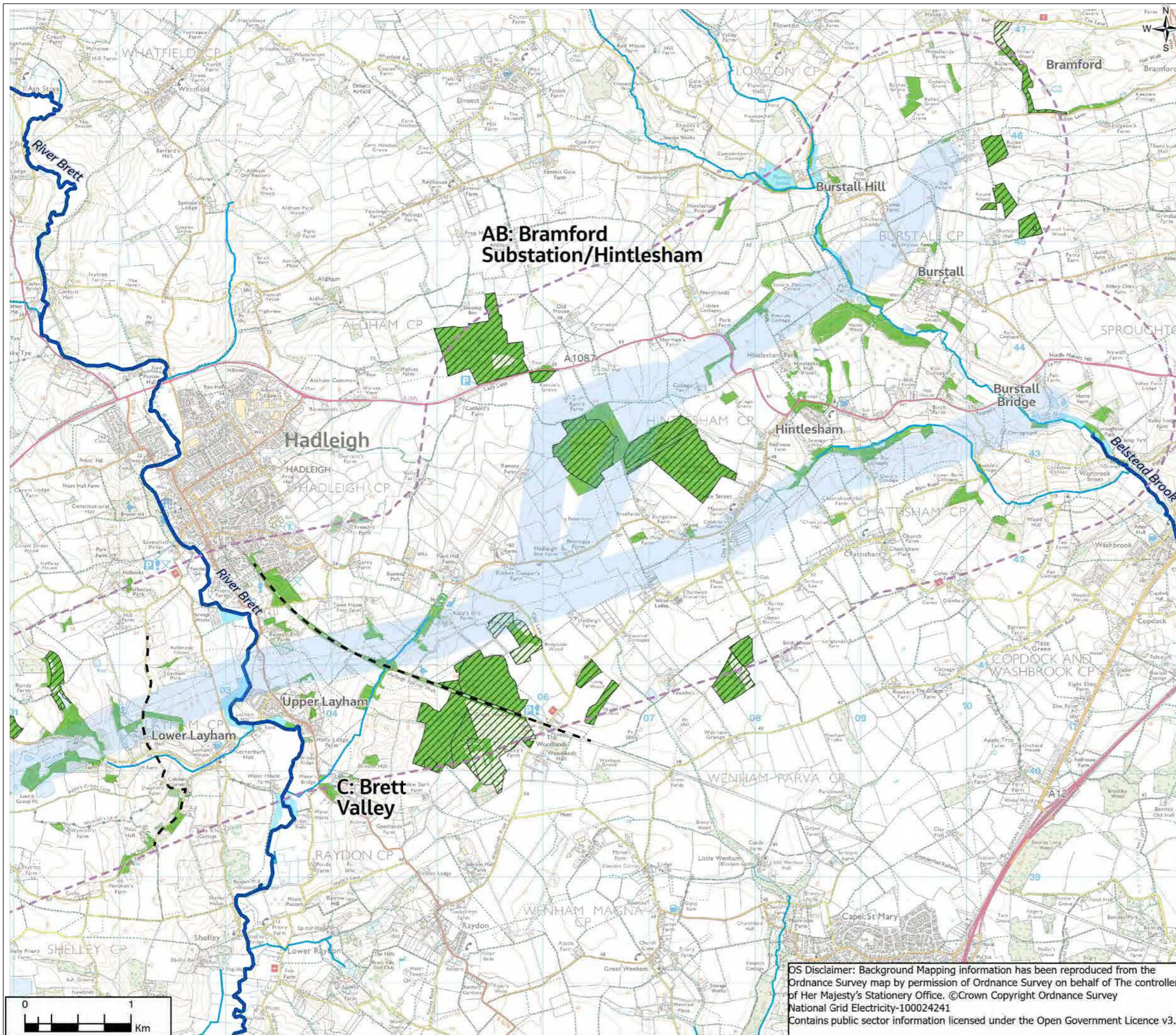
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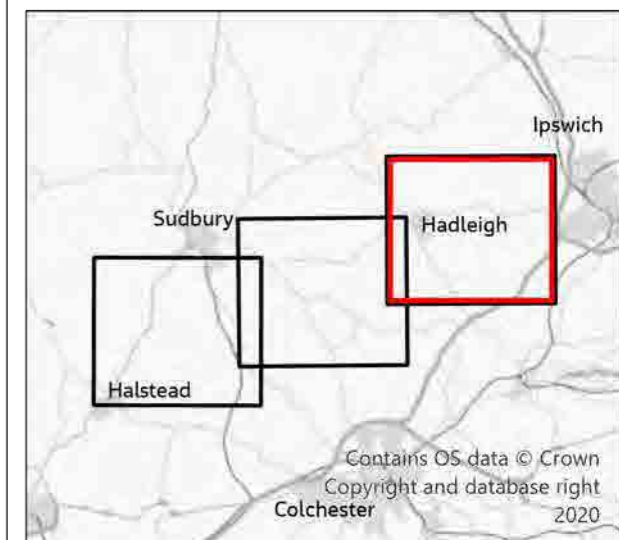
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**FIGURE 7.3**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area (1km)
  - Main Rivers
  - Non-Main Rivers
  - Ancient Woodland
- Priority Habitat Inventory**
- Coastal and Floodplain Grazing Marsh
  - Lowland Calcerous Grassland
  - Lowland Dry Acid Grassland
  - Lowland Meadows
  - Lowland Fens
  - Deciduous Woodland
  - Traditional Orchard



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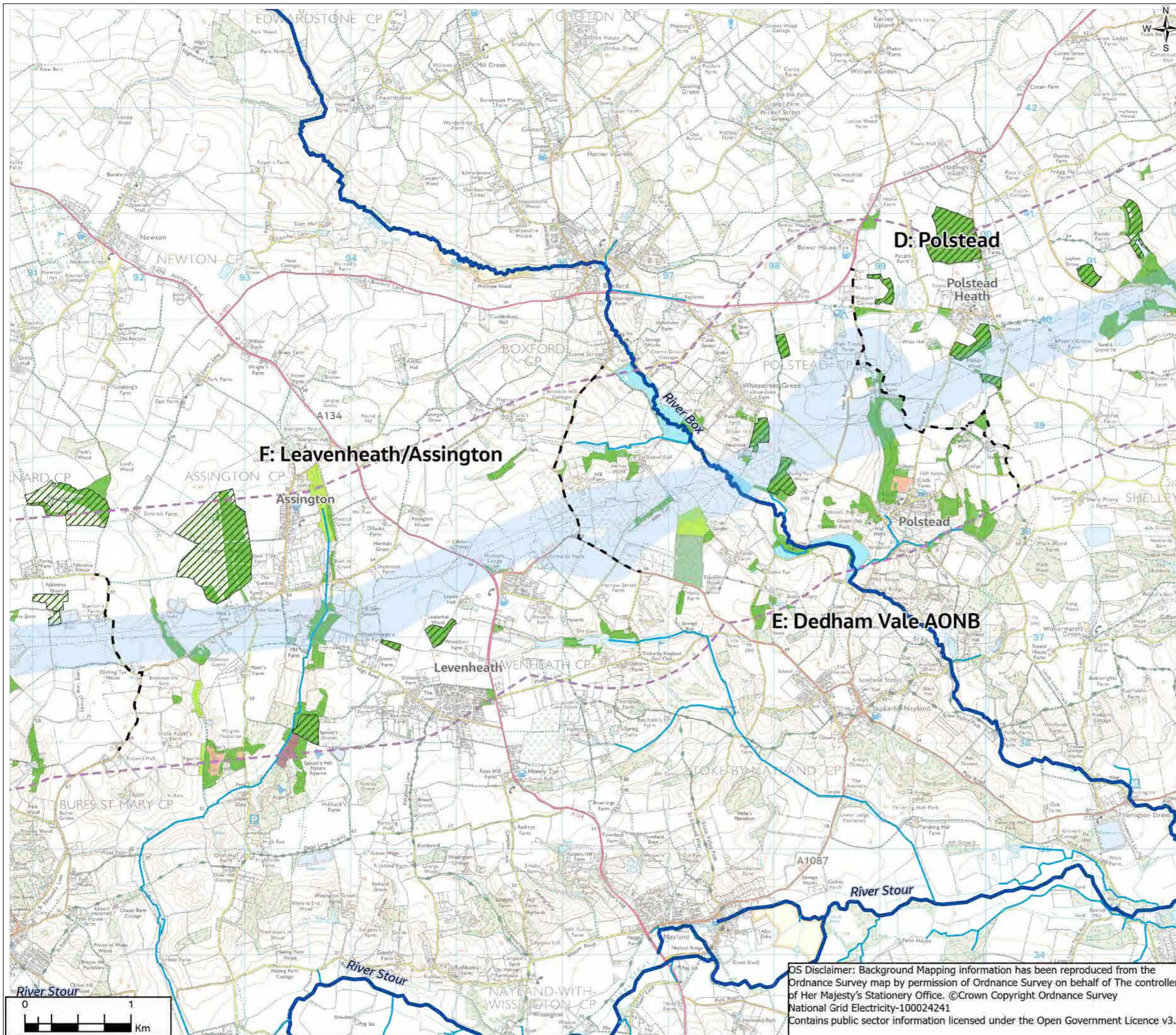
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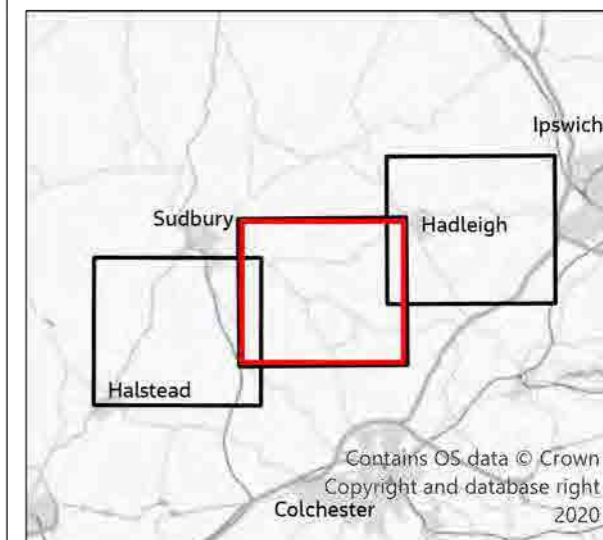
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**FIGURE 7.3**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area (1km)
  - Main Rivers
  - Non-Main Rivers
  - Ancient Woodland
- Priority Habitat Inventory**
- Coastal and Floodplain Grazing Marsh
  - Lowland Dry Acid Grassland
  - Lowland Meadows
  - Lowland Fens
  - Deciduous Woodland
  - Traditional Orchard



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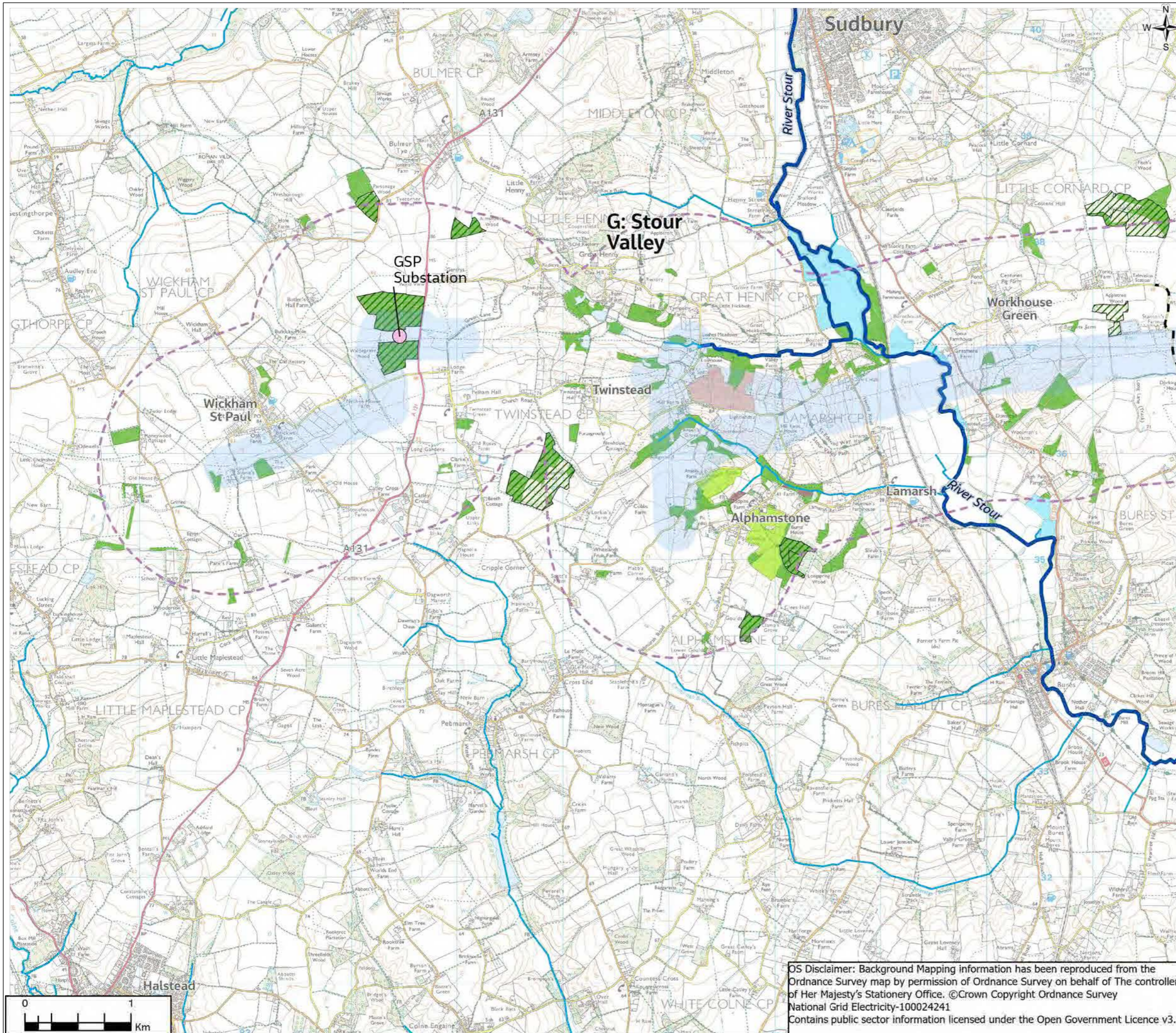
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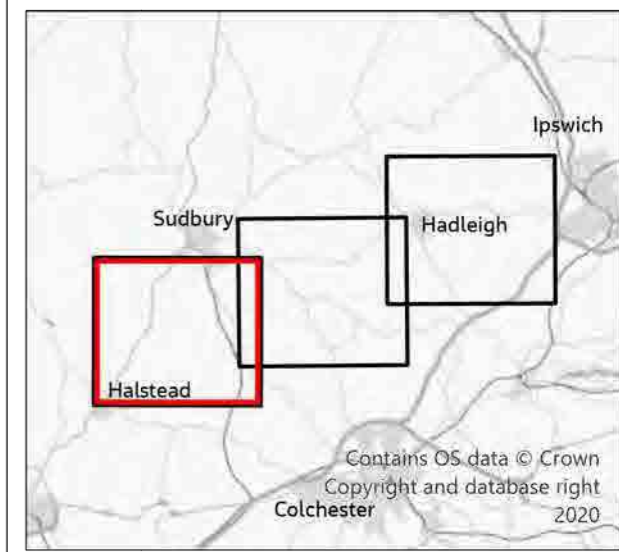
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**FIGURE 7.3**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area (1km)
  - Main Rivers
  - Non-Main Rivers
  - ▨ Ancient Woodland
- Priority Habitat Inventory**
- Coastal and Floodplain Grazing Marsh
  - Lowland Dry Acid Grassland
  - Lowland Meadows
  - Lowland Fens
  - Reedbeds
  - Deciduous Woodland
  - Traditional Orchard



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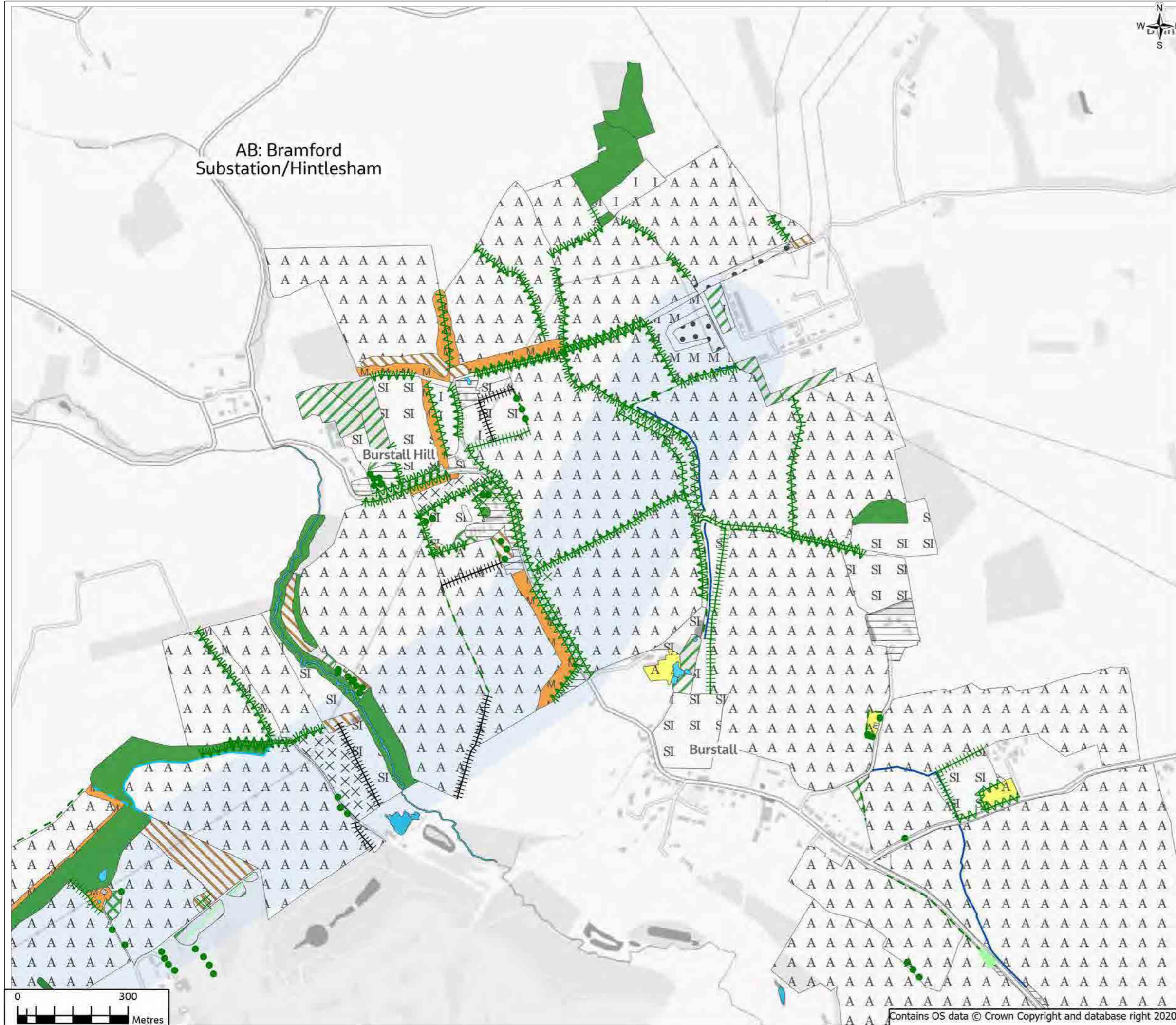
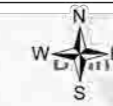
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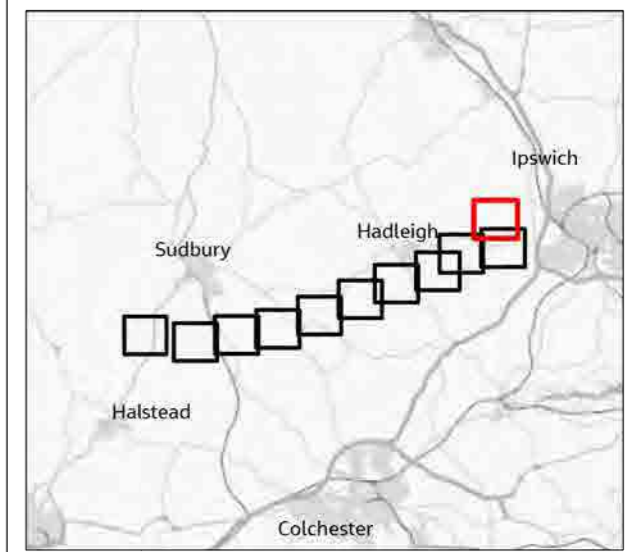
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**FIGURE 7.4**

**AB: Bramford Substation/Hintlesham**



- Legend**
- Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - A3.2 - Scattered coniferous tree
  - G1 - Standing water
  - G2 - Running water
  - J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.21 - Native species-rich defunct hedge
  - J2.22 - Species-poor defunct hedge
  - J2.31 - Native species-rich hedge and trees
  - J2.32 - Species-poor hedge and trees
  - J2.4 - Fence
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A1.3.2 - Plantation mixed woodland
  - A2.1 - Dense/continuous scrub
  - B2.3 - Species-rich modified neutral grassland
  - B2.4 - Species-poor modified neutral grassland
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - C3.1 - Tall ruderal
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J1.3 - Ephemeral/short perennial trees
  - J37 - Track
  - J4 - Bare ground



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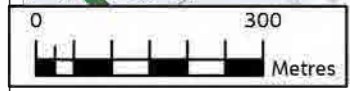
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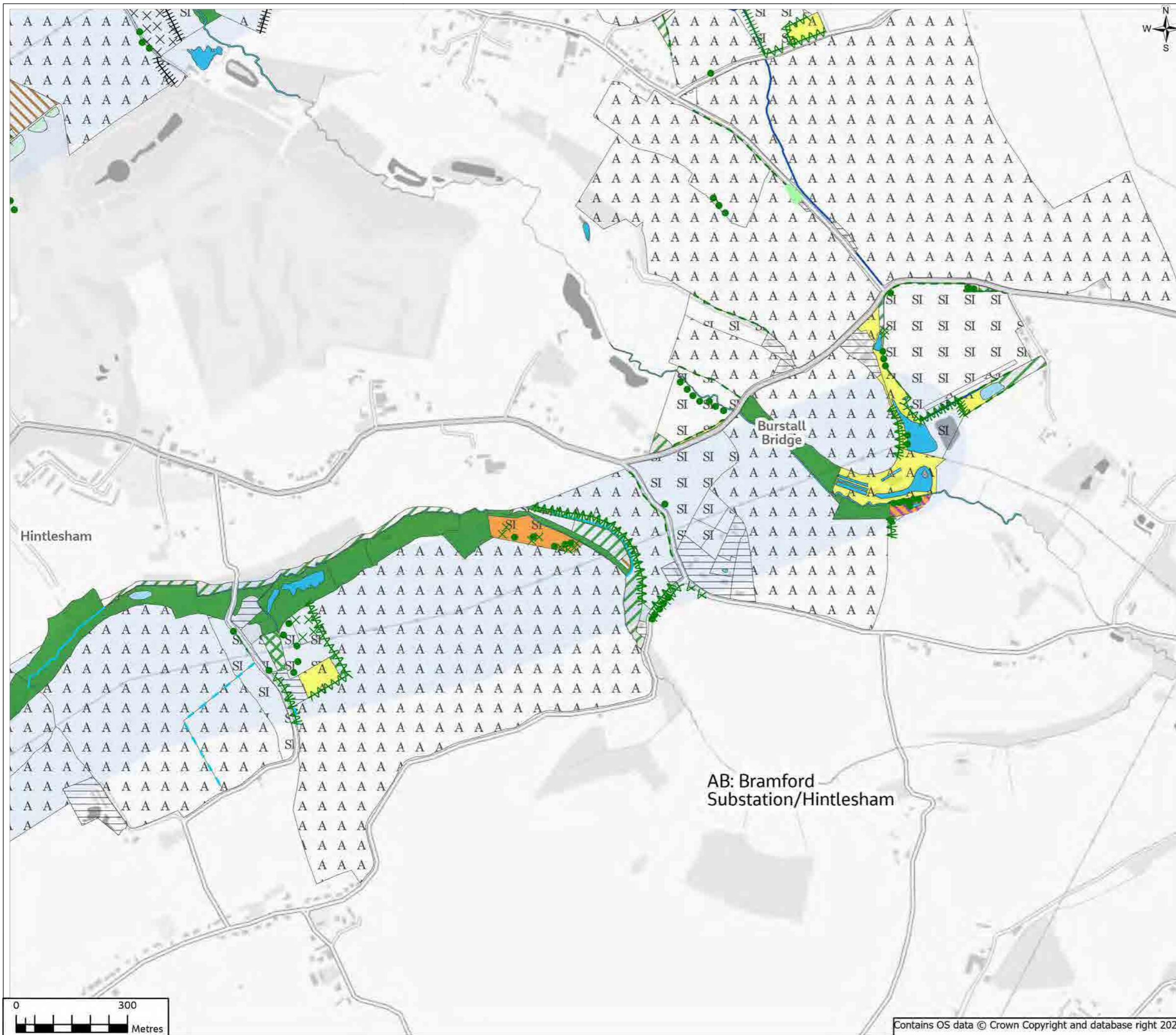
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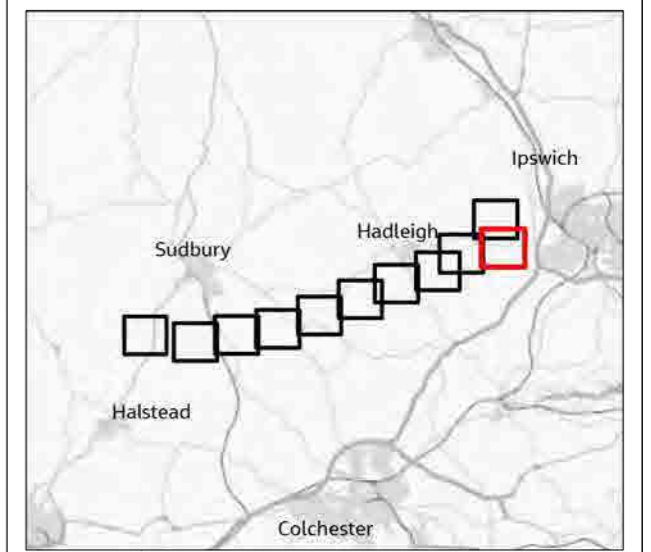


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**FIGURE 7.4**



- Legend**
- Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - A3.2 - Scattered coniferous tree
  - G1 - Standing water
  - G2 - Running water
  - J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.21 - Native species-rich defunct hedge
  - J2.22 - Species-poor defunct hedge
  - J2.31 - Native species-rich hedge and trees
  - J2.32 - Species-poor hedge and trees
  - J2.4 - Fence
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A1.2.2 - Plantation coniferous woodland
  - A1.3.2 - Plantation mixed woodland
  - A2.1 - Dense/continuous scrub
  - B2.2 - Semi-improved neutral grassland
  - B5 - Marsh/marshy grassland
  - B6 - Poor semi-improved grassland
  - C3.1 - Tall ruderal
  - F1 - Swamp
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J1.3 - Ephemeral/short perennial
  - J37 - Track
  - J4 - Bare ground



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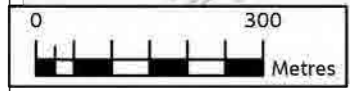
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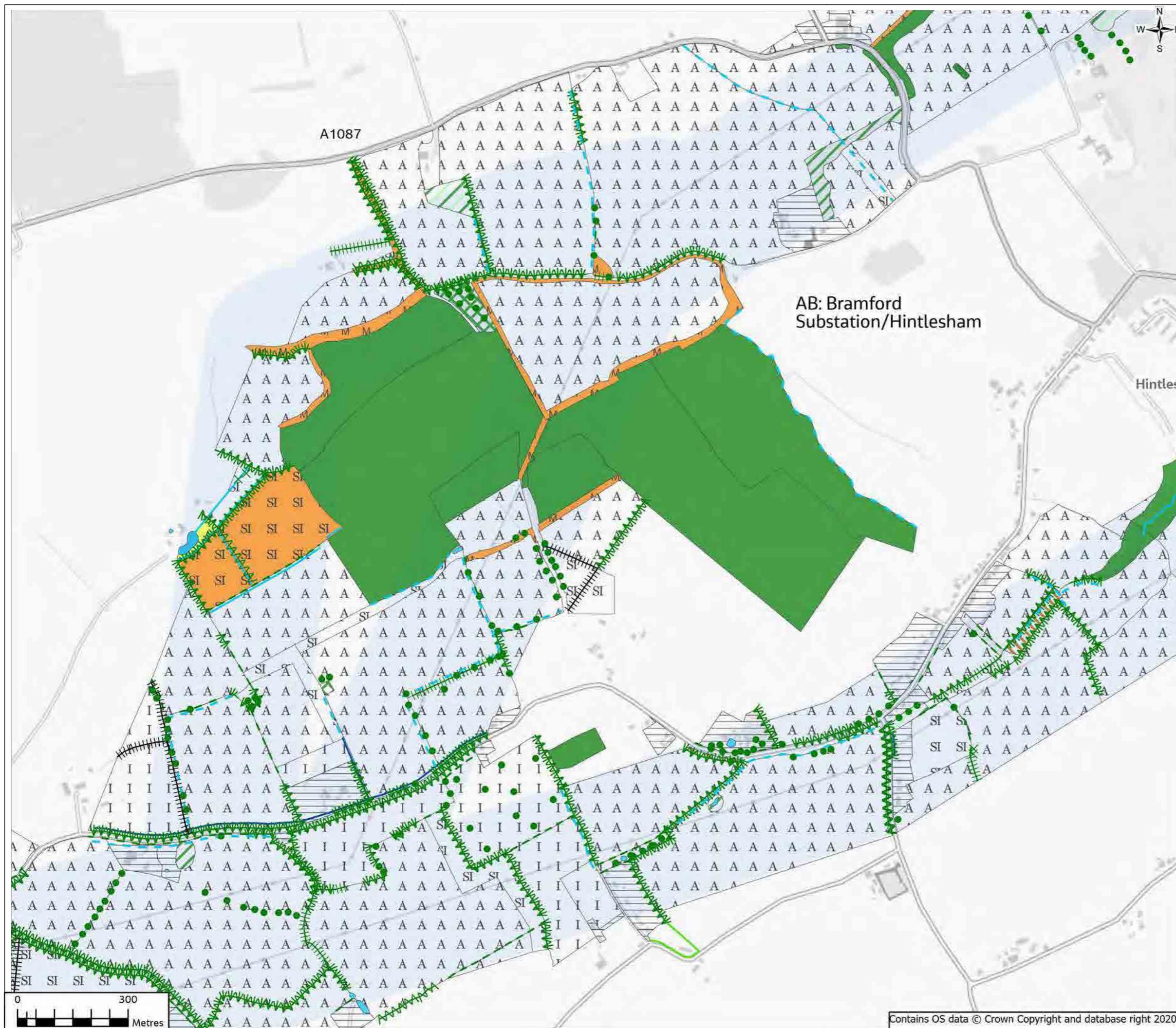
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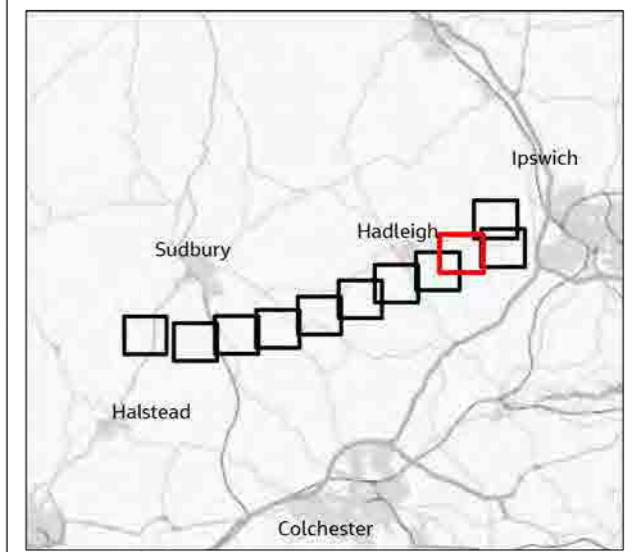
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**FIGURE 7.4**



- Legend**
- Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - Conifer Hedge
  - G1 - Standing water
  - G2 - Running water
  - J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.21 - Native species-rich defunct hedge
  - J2.22 - Species-poor defunct hedge
  - J2.31 - Native species-rich hedge and trees
  - J2.32 - Species-poor hedge and trees
  - J2.4 - Fence
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A1.2.2 - Plantation coniferous woodland
  - A1.3.2 - Plantation mixed woodland
  - A2.1 - Dense/continuous scrub
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B2.4 - Species-poor modified neutral grassland
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - C3.1 - Tall ruderal
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J37 - Track



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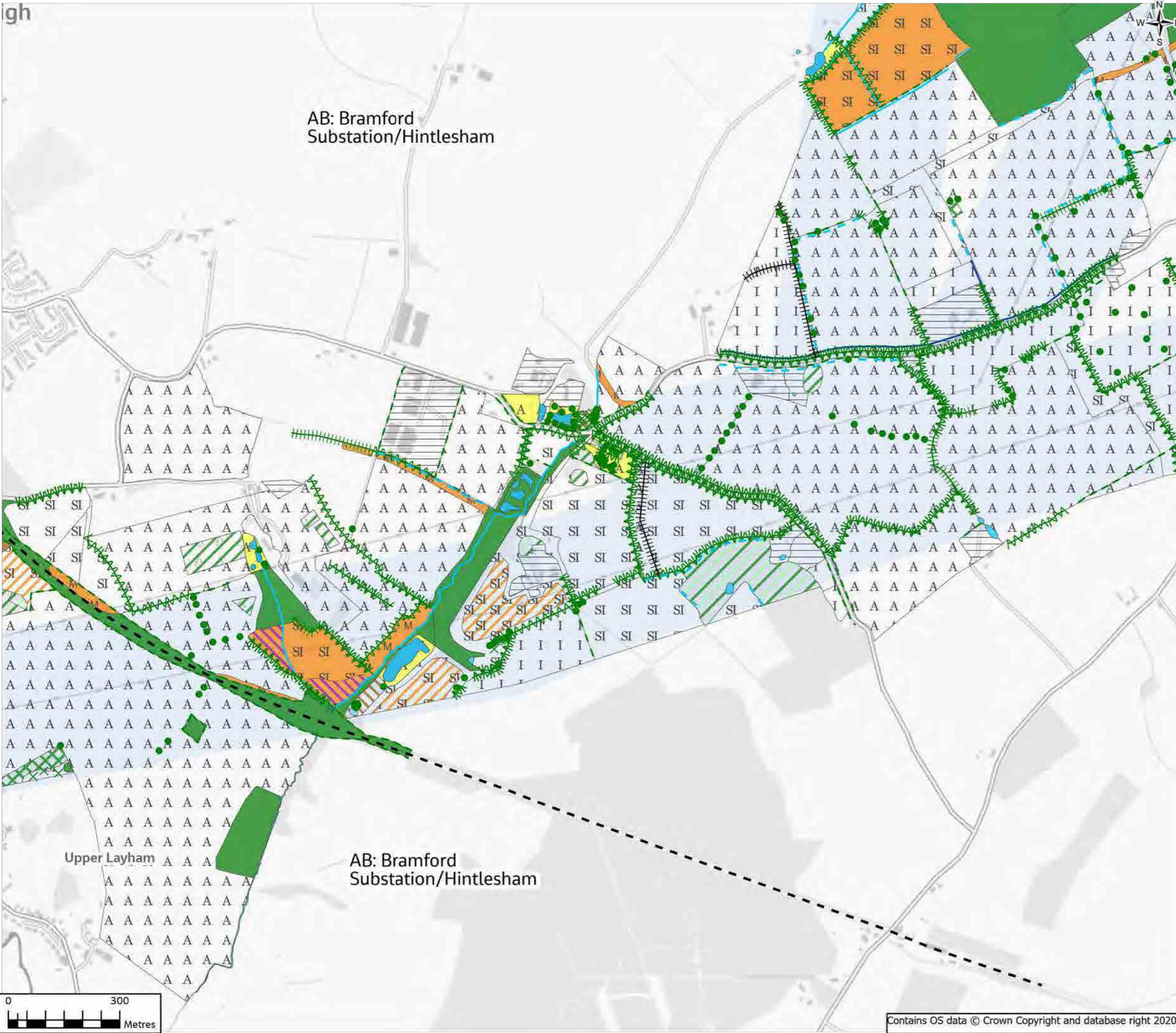
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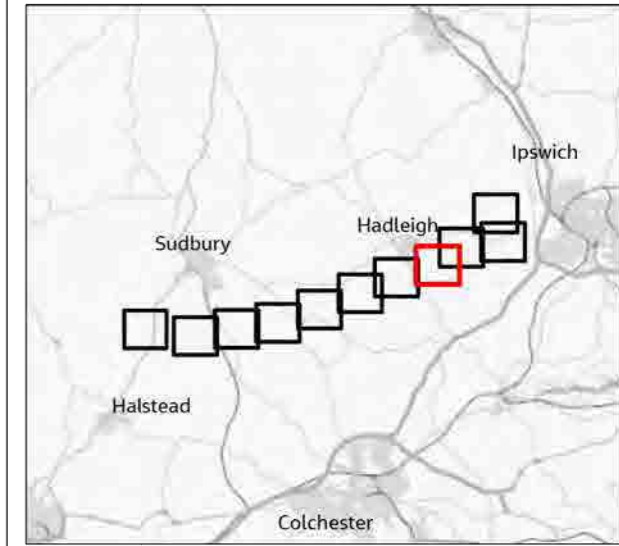
AB: Bramford Substation/Hintlesham



Upper Layham AB: Bramford Substation/Hintlesham

FIGURE 7.4

- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - × A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - G1 - Standing water
  - G2 - Running water
  - W J2.11 - Native species-rich intact hedge
  - W J2.12 - Species-poor intact hedge
  - W J2.21 - Native species-rich defunct hedge
  - W J2.22 - Species-poor defunct hedge
  - W J2.31 - Native species-rich hedge and trees
  - W J2.32 - Species-poor hedge and trees
  - J2.4 - Fence
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A1.2.2 - Plantation coniferous woodland
  - A1.3.2 - Plantation mixed woodland
  - A2.1 - Dense/continuous scrub
  - A5 - Orchard
  - B1.2 - Semi-improved acid grassland
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B4 - Improved grassland
  - B5 - Marsh/marshy grassland
  - B6 - Poor semi-improved grassland
  - C1.1 - Continuous bracken
  - C3.1 - Tall ruderal
  - F1 - Swamp
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J1.4 - Introduced shrub
  - J37 - Track



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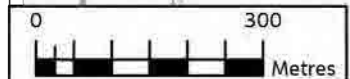
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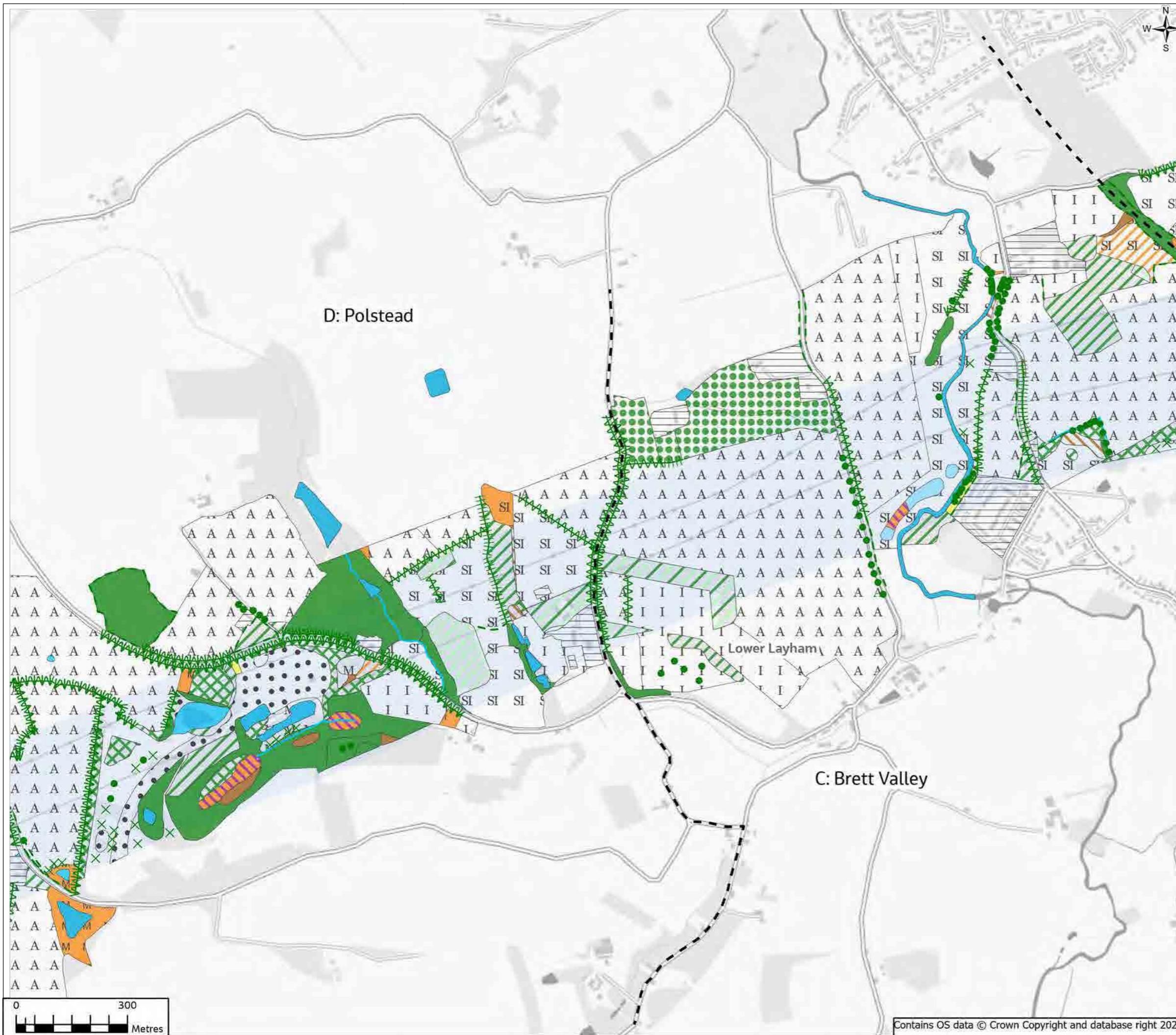
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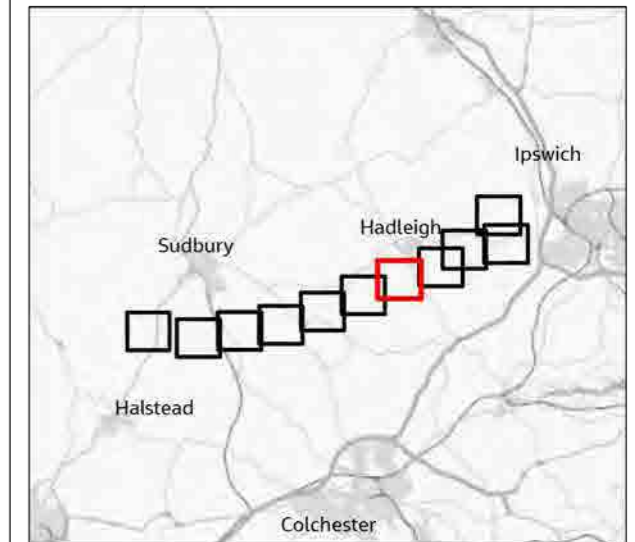




**FIGURE 7.4**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - ✕ A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - G2 - Running water
  - W J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.22 - Species-poor defunct hedge
  - W J2.31 - Native species-rich hedge and trees
  - H J2.32 - Species-poor hedge and trees
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A1.2.2 - Plantation coniferous woodland
  - A1.3.2 - Plantation mixed woodland
  - A2.1 - Dense/continuous scrub
  - A3.1 - Broad-leaved parkland/scattered trees
  - A5 - Orchard
  - B1.1 - Unimproved acid grassland
  - B1.2 - Semi-improved acid grassland
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B2.4 - Species-poor modified neutral grassland
  - B4 - Improved grassland
  - B5 - Marsh/marshy grassland
  - B6 - Poor semi-improved grassland
  - C1.1 - Continuous bracken
  - C3.1 - Tall ruderal
  - E2.1 - Acid/neutral flush
  - F1 - Swamp
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J37 - Track
  - J4 - Bare ground



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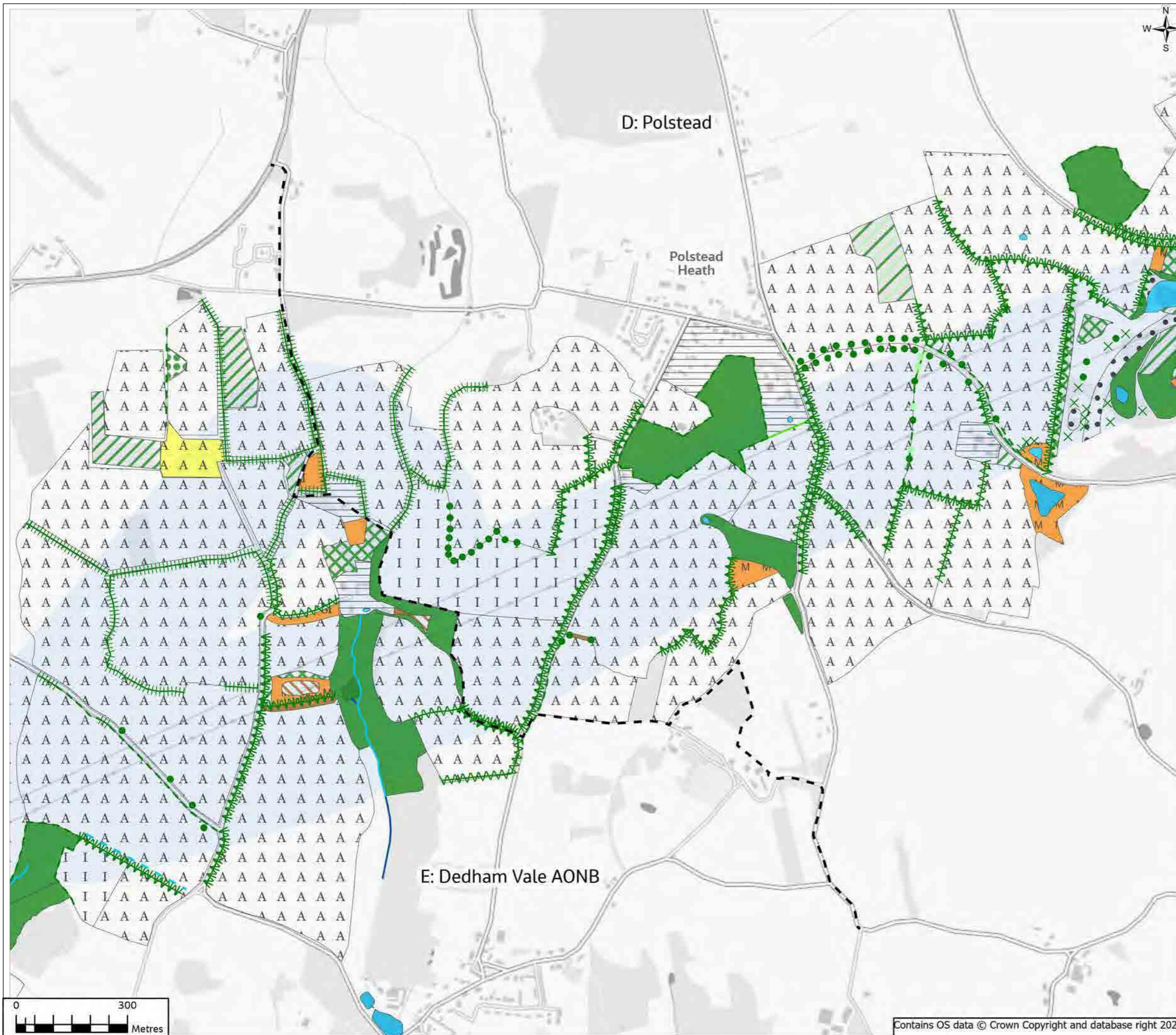
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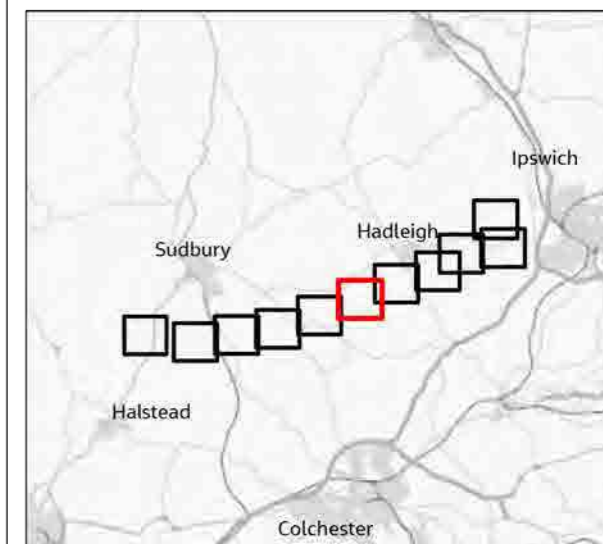
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**FIGURE 7.4**

- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - × A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - A3.2 - Scattered coniferous tree
  - Conifer Hedge
  - G1 - Standing water
  - G2 - Running water
  - W J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.22 - Species-poor defunct hedge
  - W J2.31 - Native species-rich hedge and trees
  - J2.32 - Species-poor hedge and trees
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A1.3.2 - Plantation mixed woodland
  - A2.1 - Dense/continuous scrub
  - A3.1 - Broad-leaved parkland/scattered trees
  - B2.1 - Unimproved neutral grassland
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B4 - Improved grassland
  - B5 - Marsh/marshy grassland
  - C1.1 - Continuous bracken
  - C3.1 - Tall ruderal
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J37 - Track
  - J4 - Bare ground



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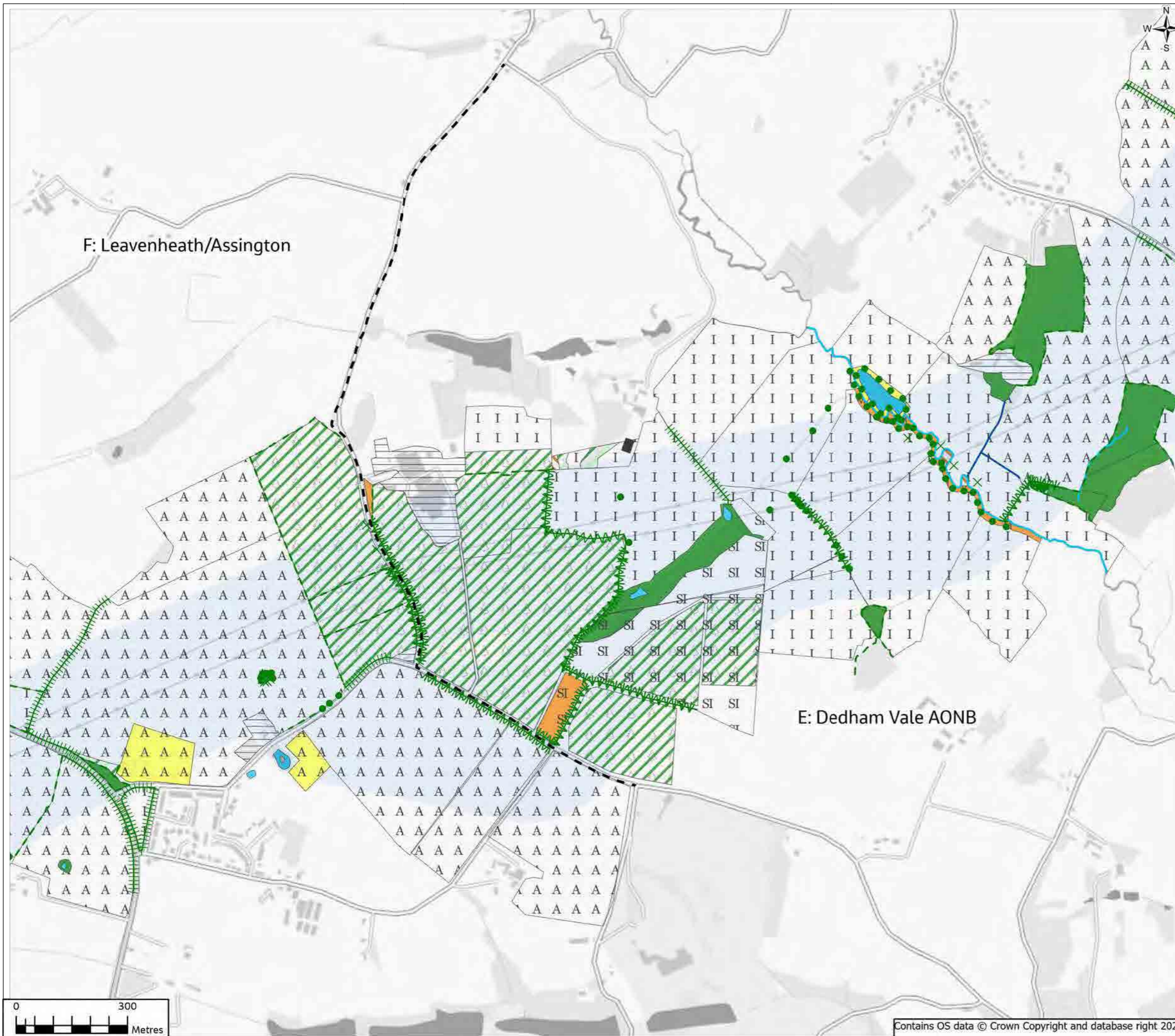
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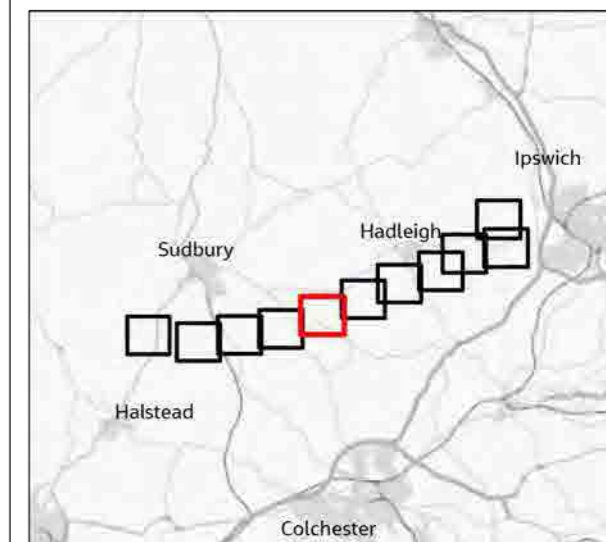
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**FIGURE 7.4**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - × A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - G1 - Standing water
  - G2 - Running water
  - W J2.11 - Native species-rich intact hedge
  - W J2.12 - Species-poor intact hedge
  - W J2.22 - Species-poor defunct hedge
  - W J2.31 - Native species-rich hedge and trees
  - W J2.32 - Species-poor hedge and trees
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.3.2 - Plantation mixed woodland
  - A5 - Orchard
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - C3.1 - Tall ruderal
  - F1 - Swamp
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J3.6 - Buildings
  - J37 - Track



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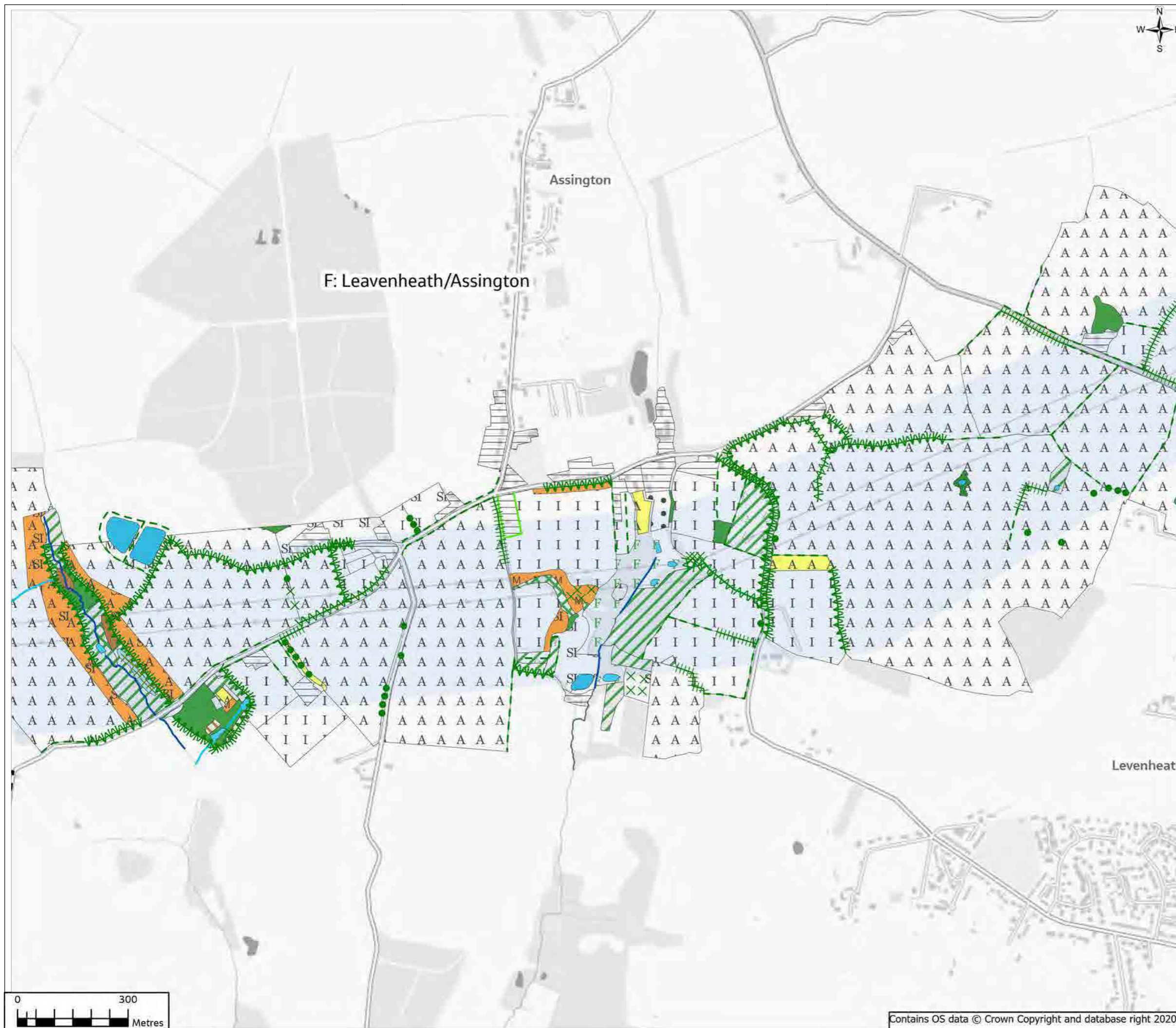
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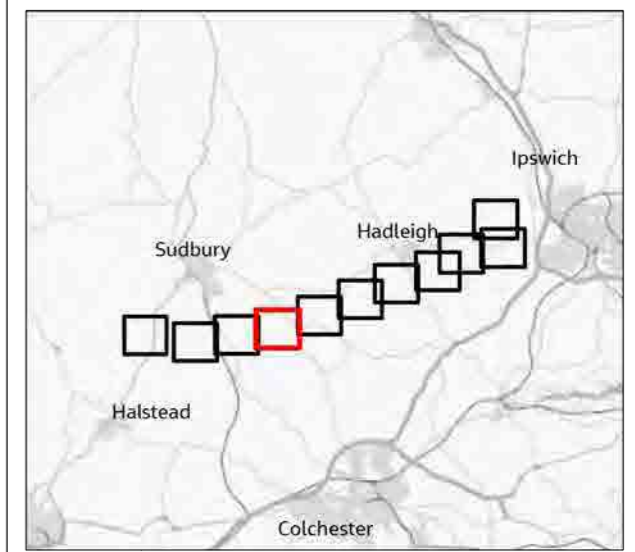
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**FIGURE 7.4**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP)
  - × A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - × C1.2 - Scattered bracken
  - Conifer Hedge
  - G1 - Standing water
  - G2 - Running water
  - J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.22 - Species-poor defunct hedge
  - J2.31 - Native species-rich hedge and trees
  - J2.32 - Species-poor hedge and trees
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A2.1 - Dense/continuous scrub
  - A4.1 - Broadleaved woodland - recently felled
  - A5 - Orchard
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B2.4 - Species-poor modified neutral grassland
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - C1.1 - Continuous bracken
  - C3.1 - Tall ruderal
  - F1 - Swamp
  - G1 - Standing water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J37 - Track
  - J4 - Bare ground



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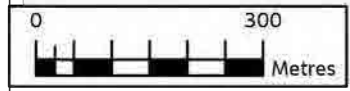
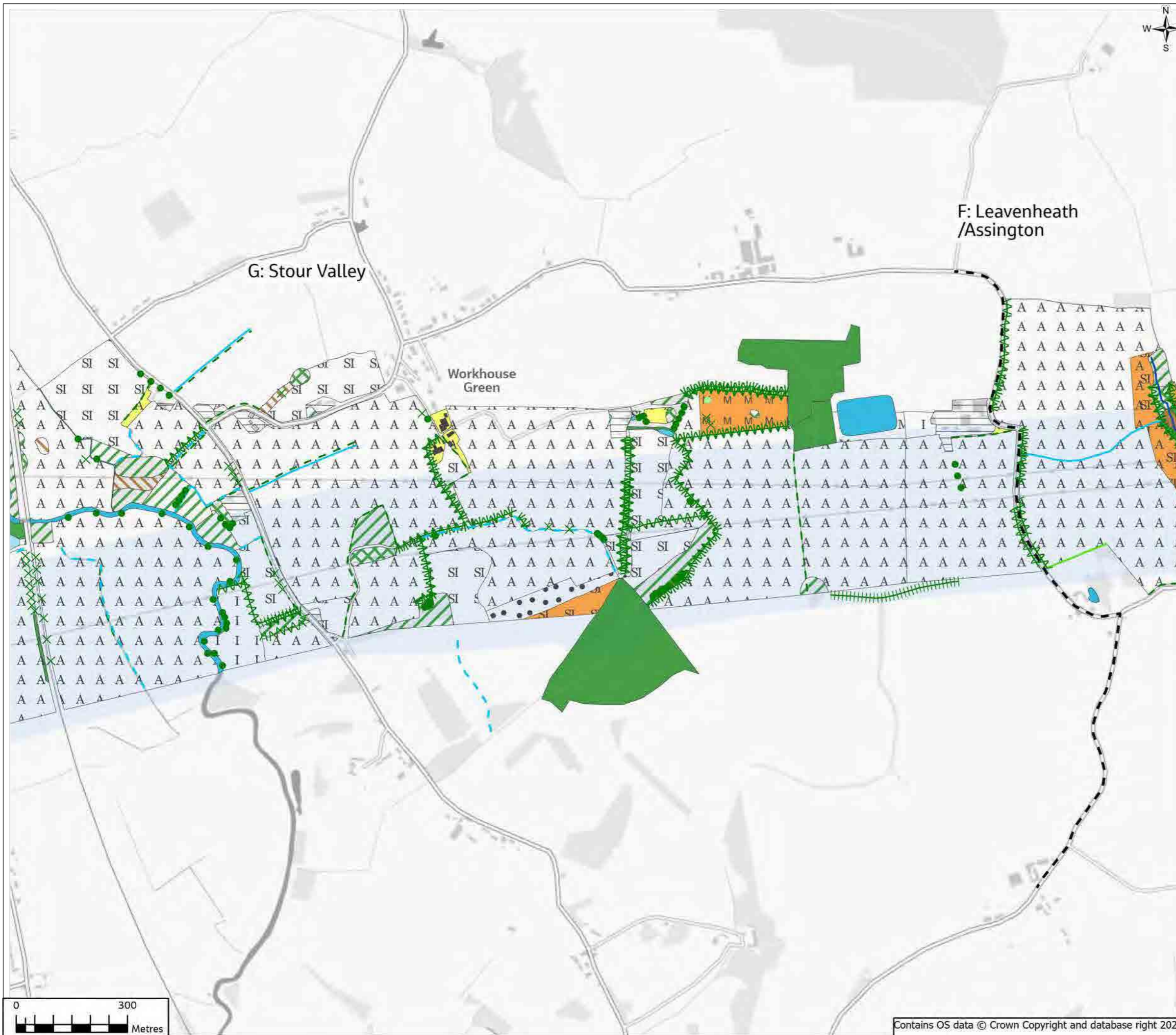
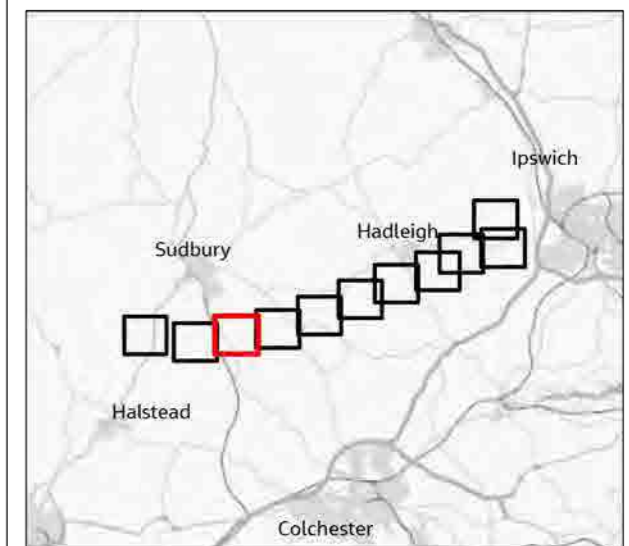


FIGURE 7.4



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - × A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - A3.2 - Scattered coniferous tree
  - Conifer Hedge
  - G1 - Standing water
  - G2 - Running water
  - W J2.11 - Native species-rich intact hedge
  - W J2.12 - Species-poor intact hedge
  - W J2.21 - Native species-rich defunct hedge
  - W J2.22 - Species-poor defunct hedge
  - W J2.31 - Native species-rich hedge and trees
  - W J2.32 - Species-poor hedge and trees
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A2.1 - Dense/continuous scrub
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B2.4 - Species-poor modified neutral grassland
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - C1.1 - Continuous bracken
  - C3.1 - Tall ruderal
  - F1 - Swamp
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland and trees
  - J3.6 - Buildings
  - J37 - Track
  - J4 - Bare ground



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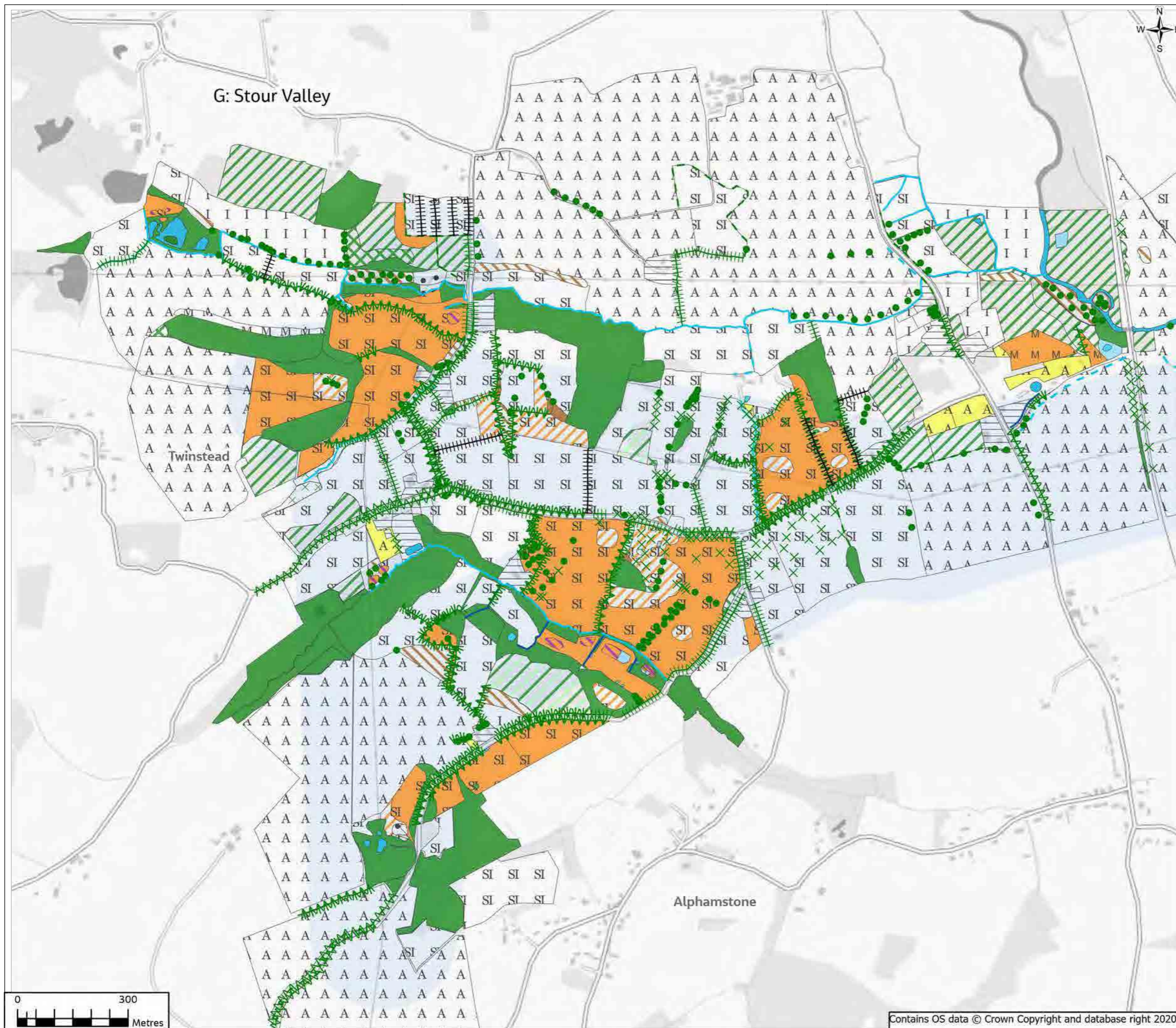
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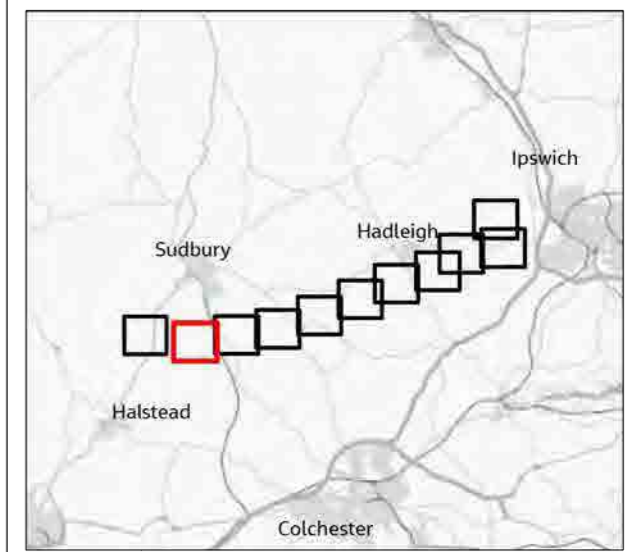
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**FIGURE 7.4**



- Legend**
- Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - A2.2 - Scattered scrub
  - A3.1 - Scattered broad-leaved tree
  - A2.1 - Scrub - dense/continuous
  - G1 - Standing water
  - G2 - Running water
  - J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.21 - Native species-rich defunct hedge
  - J2.22 - Species-poor defunct hedge
  - J2.31 - Native species-rich hedge and trees
  - J2.32 - Species-poor hedge and trees
  - J2.4 - Fence
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A1.3.2 - Plantation mixed woodland
  - A2.1 - Dense/continuous scrub
  - A2.2 - Scattered scrub
  - A5 - Orchard
  - B1.2 - Semi-improved acid grassland
  - B2.1 - Unimproved neutral grassland
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B2.4 - Species-poor modified neutral grassland
  - B4 - Improved grassland
  - B5 - Marsh/marshy grassland
  - B6 - Poor semi-improved grassland
  - C1.1 - Continuous bracken
  - C3.1 - Tall ruderal
  - F1 - Swamp
  - G1 - Standing water
  - G2 - Running Water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J1.4 - Introduced shrub
  - J37 - Track
  - J4 - Bare ground



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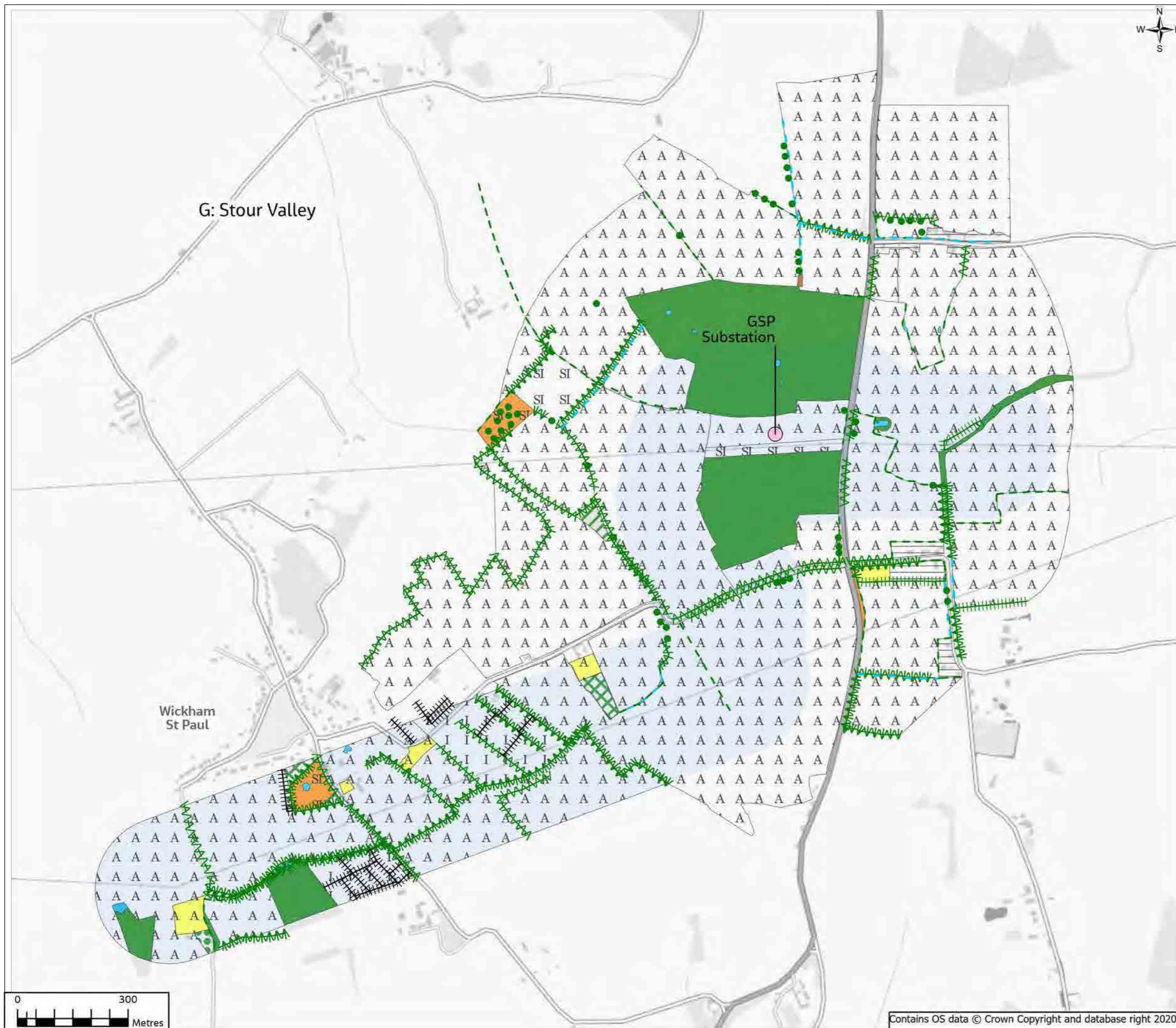
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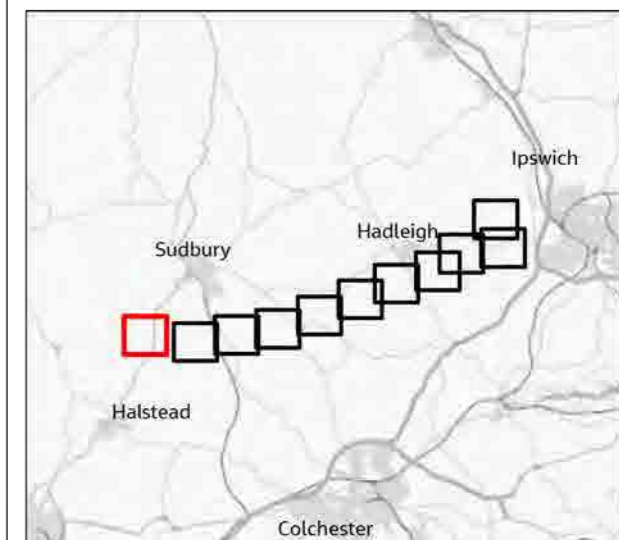


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**FIGURE 7.4**



- Legend**
- Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - A3.1 - Scattered broad-leaved tree
  - G2 - Running water
  - J2.11 - Native species-rich intact hedge
  - J2.12 - Species-poor intact hedge
  - J2.21 - Native species-rich defunct hedge
  - J2.22 - Species-poor defunct hedge
  - J2.31 - Native species-rich hedge and trees
  - J2.32 - Species-poor hedge and trees
  - J2.4 - Fence
  - J2.6 - Dry ditch
  - A1.1.1 - Semi-natural broad-leaved woodland
  - A1.1.2 - Plantation broad-leaved woodland
  - A2.1 - Dense/continuous scrub
  - A3.1 - Broad-leaved parkland/scattered trees
  - B2.2 - Semi-improved neutral grassland
  - B2.3 - Species-rich modified neutral grassland
  - B4 - Improved grassland
  - B6 - Poor semi-improved grassland
  - C1.1 - Continuous bracken
  - G1 - Standing water
  - J1.1 - Arable
  - J1.2 - Amenity grassland
  - J37 - Track



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## **Figure 7.5: Biodiversity Baseline for Selected Receptors (CONFIDENTIAL)**

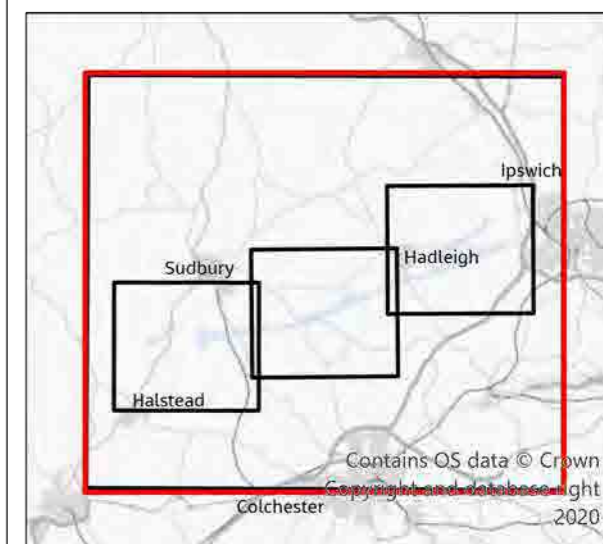
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**FIGURE 8.1**

**Legend**

- - Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Distance marker (250m)
- Distance marker (2km)
- Wider study area (5km)
- Protected Lanes
- Conservation Areas
- Registered Parks and Gardens
- Scheduled Monuments
- Grade I Listed Buildings



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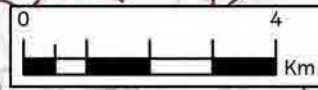
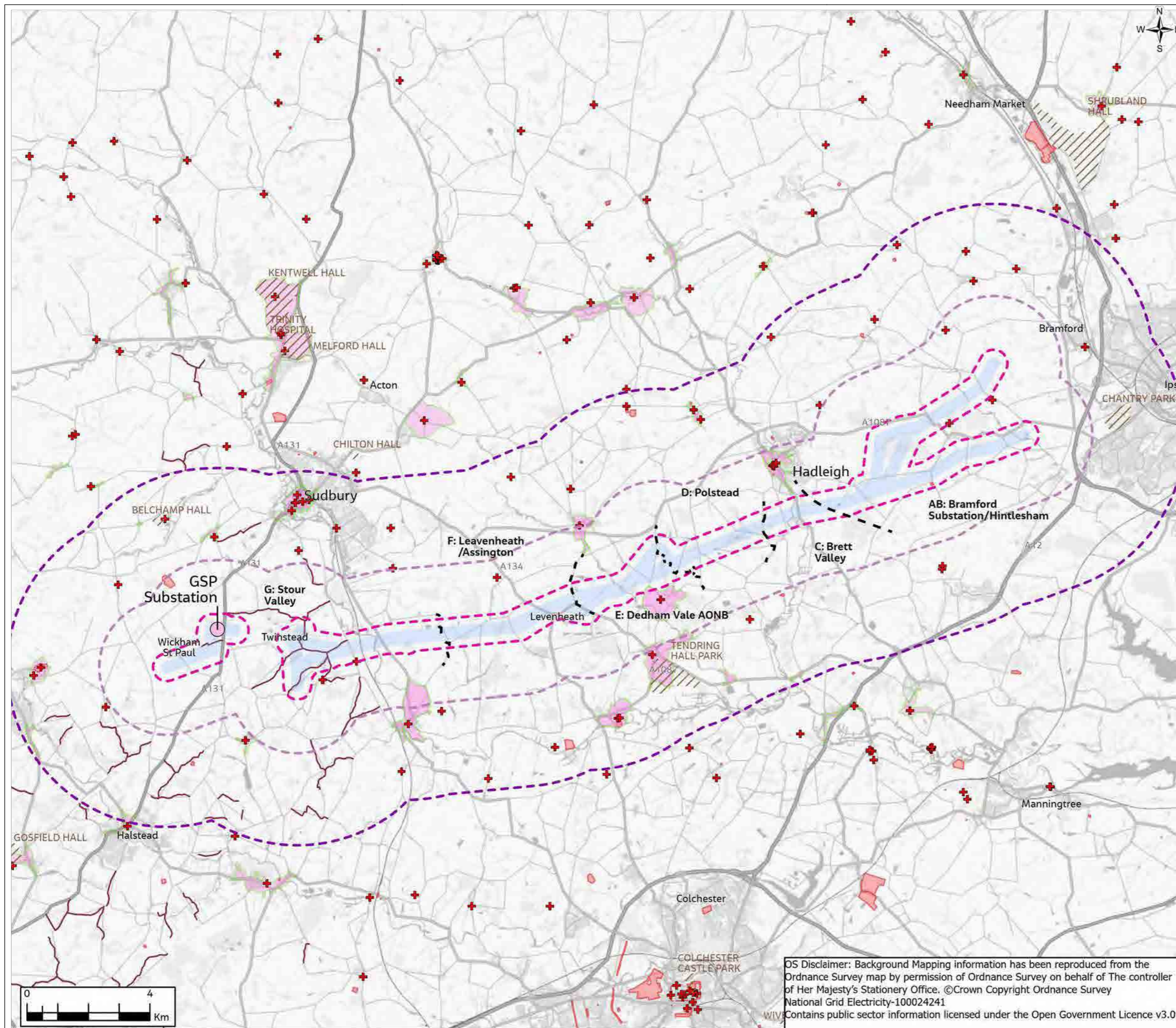
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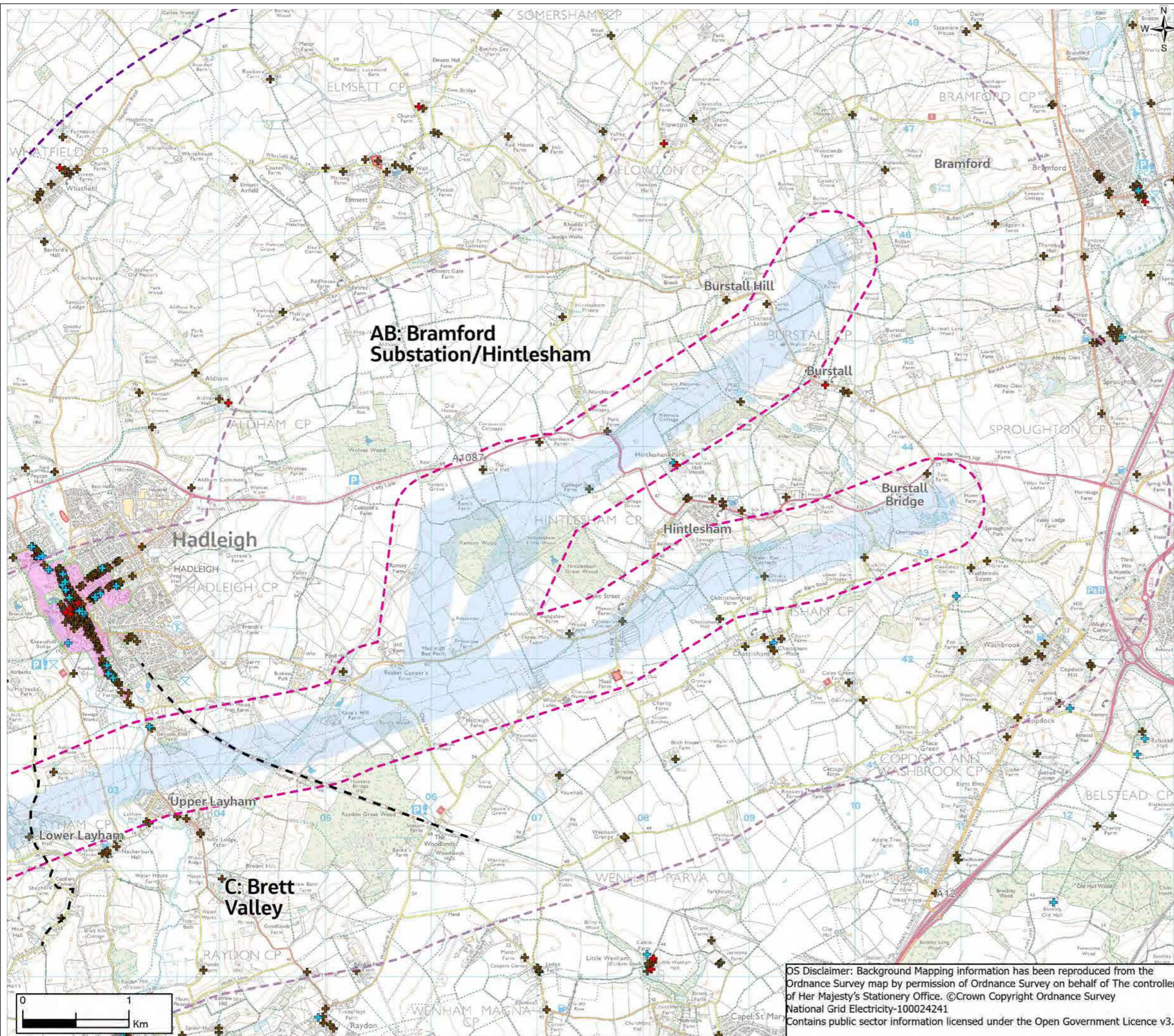
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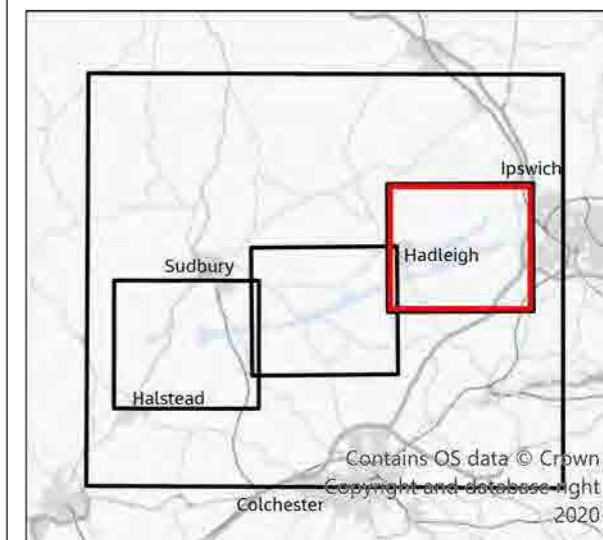


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**FIGURE 8.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Distance marker (250m)
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  - Scheduled Monuments
  - Grade I Listed Buildings
  - Grade II\* Listed Buildings
  - Grade II Listed Buildings



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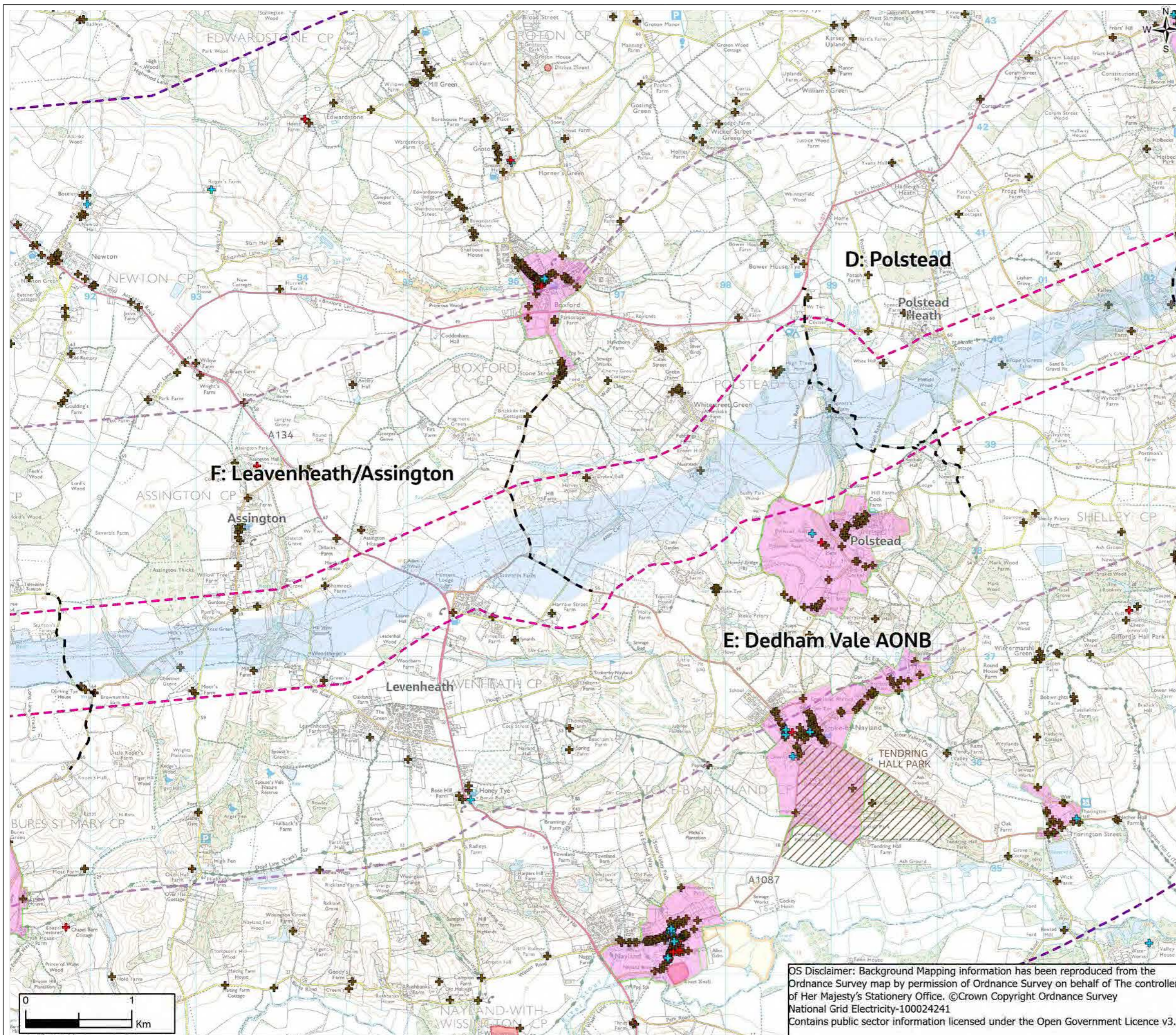
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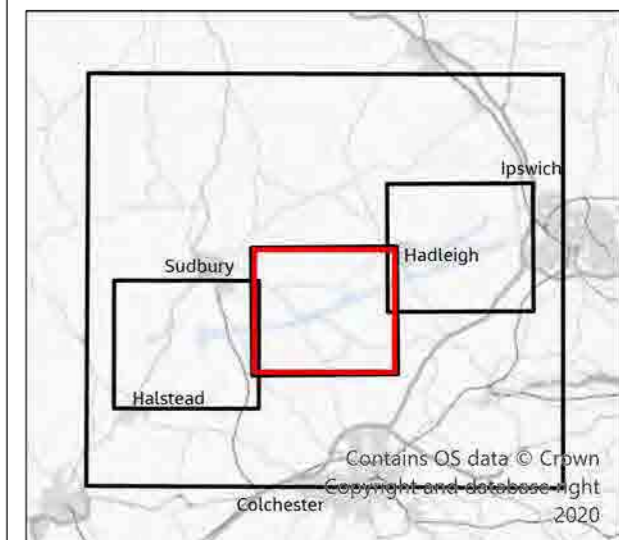
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**FIGURE 8.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Distance marker (250m)
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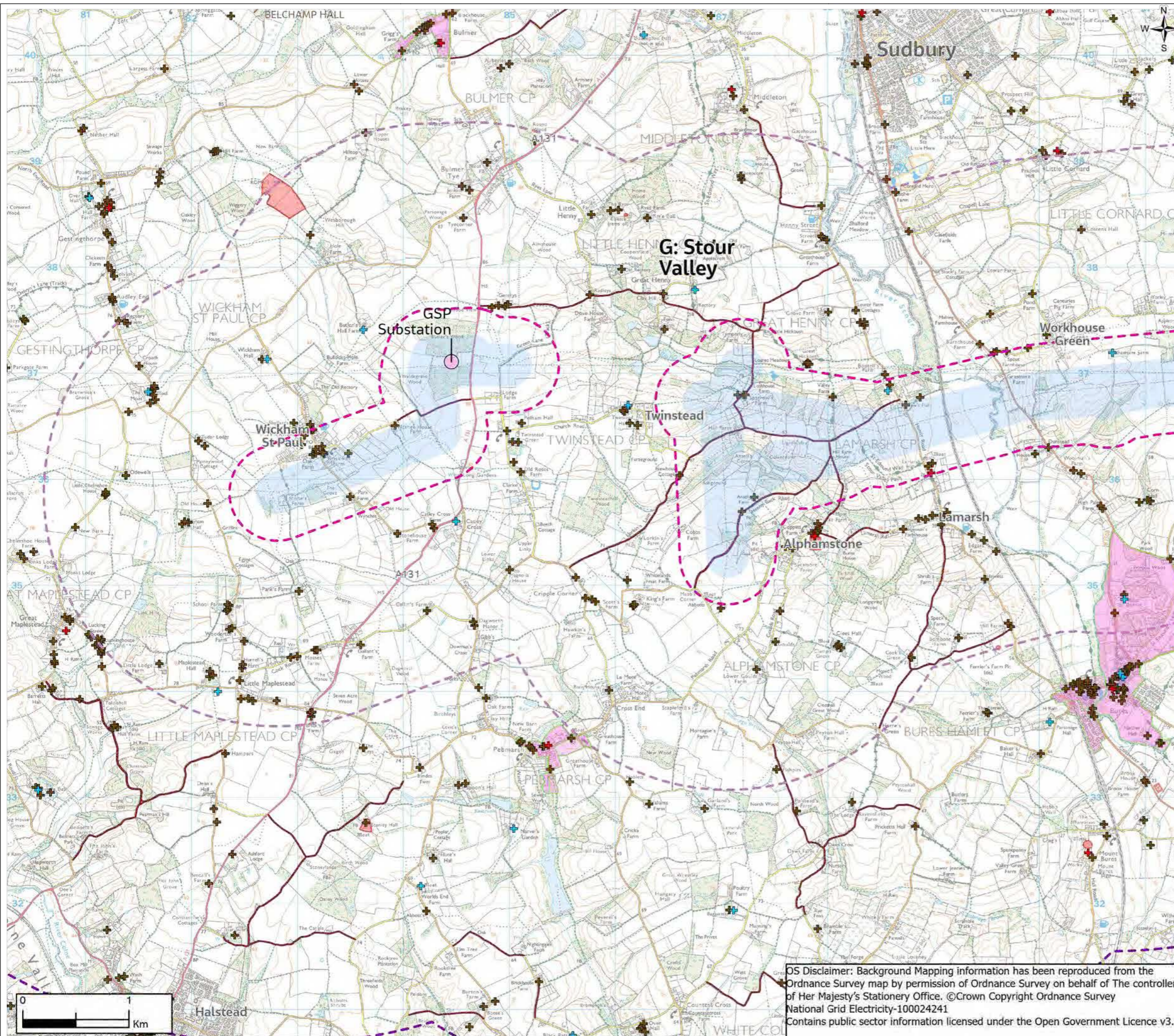
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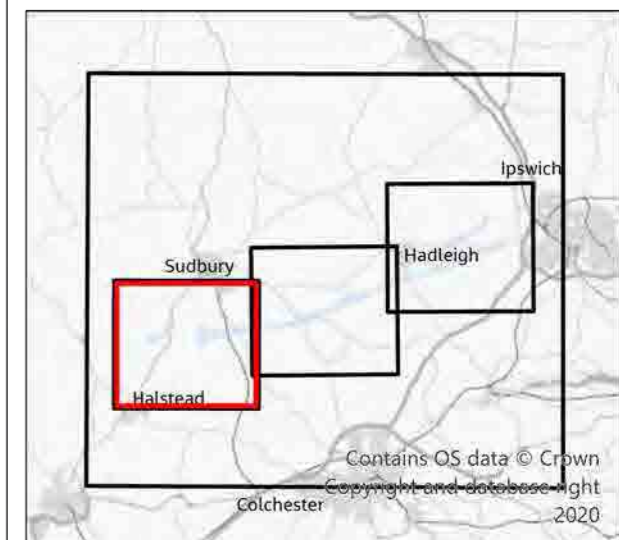
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**FIGURE 8.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
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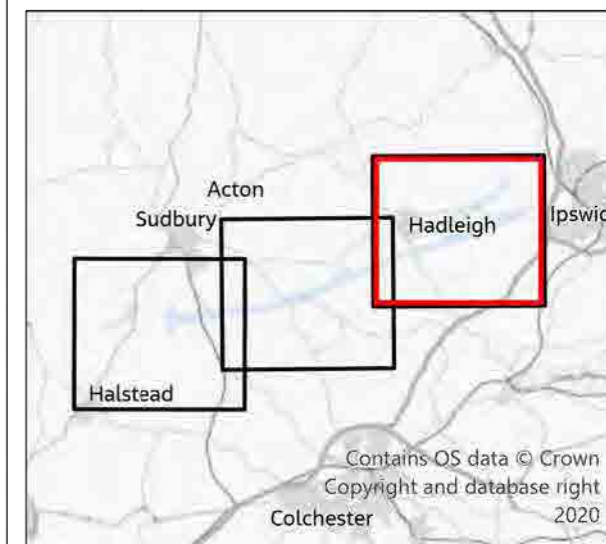
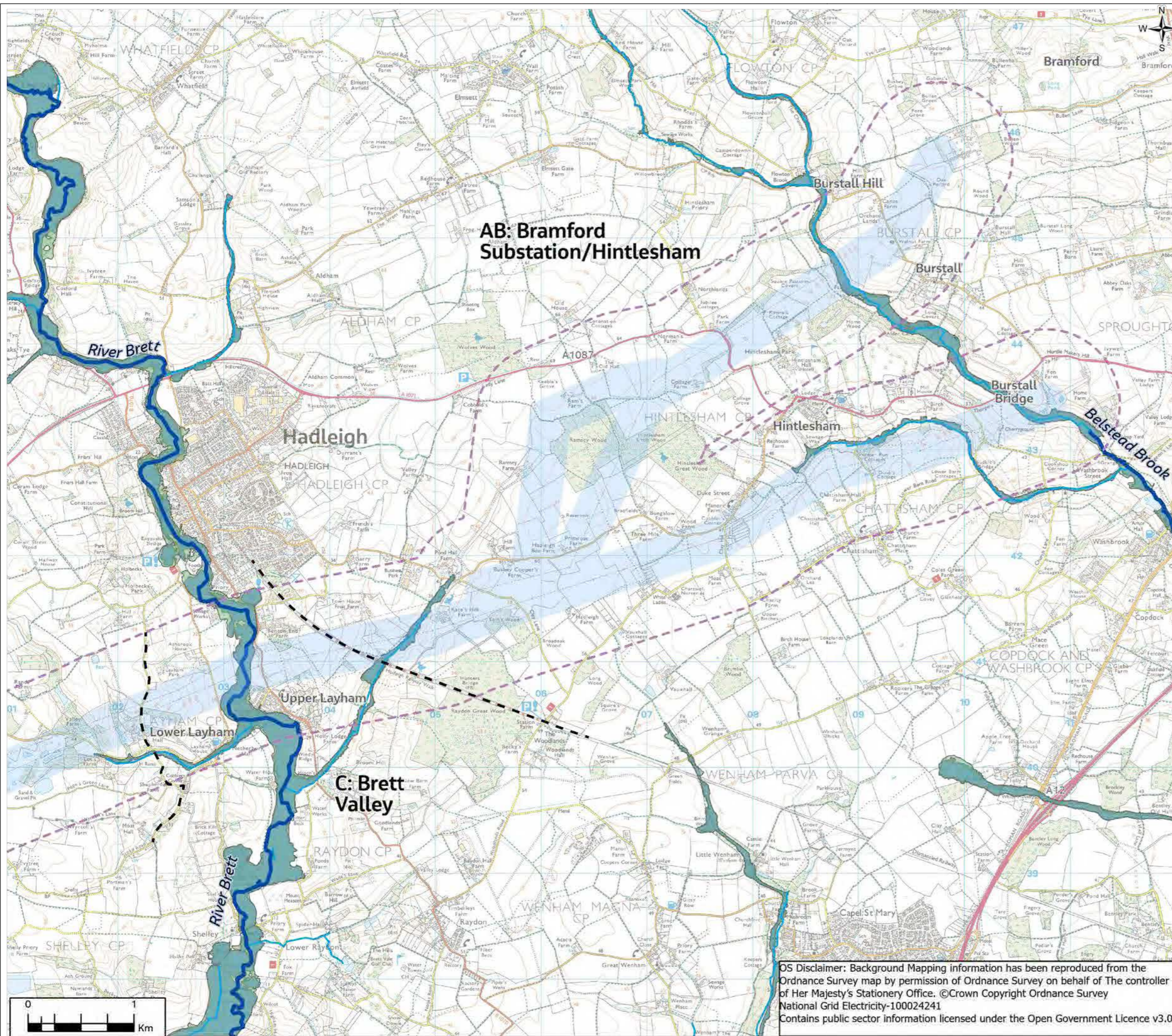
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**FIGURE 9.1**

**Legend**

- Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Study area (500m)
- Main Rivers
- Non-Main Rivers
- Environment Agency flood zone 2
- Environment Agency flood zone 3



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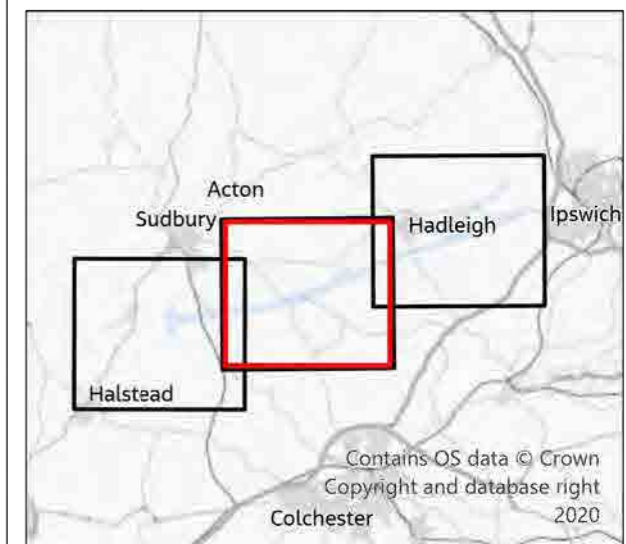
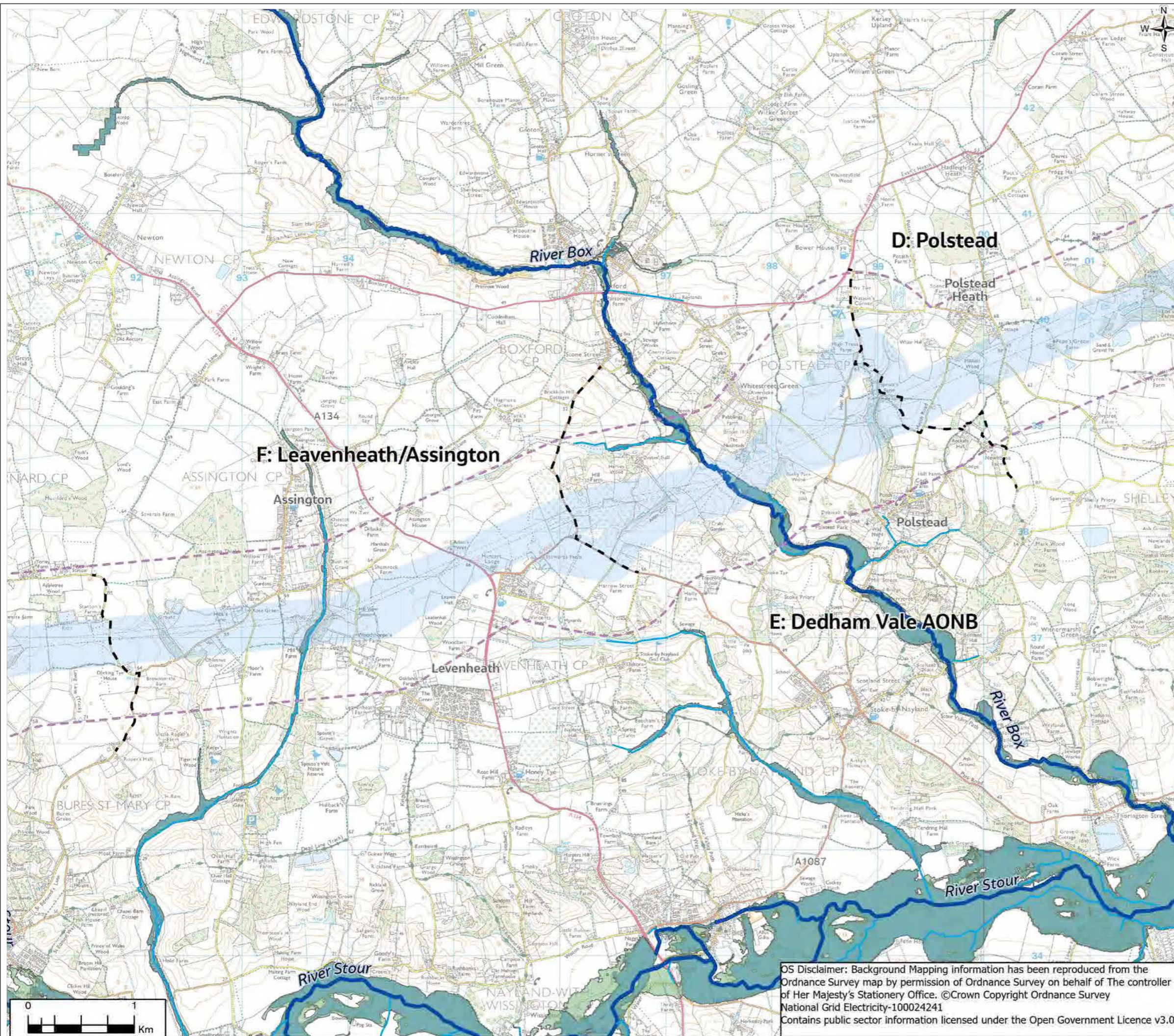
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**FIGURE 9.1**

**Legend**

- Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Study area (500m)
- Main Rivers
- Non-Main Rivers
- Environment Agency flood zone 2
- Environment Agency flood zone 3



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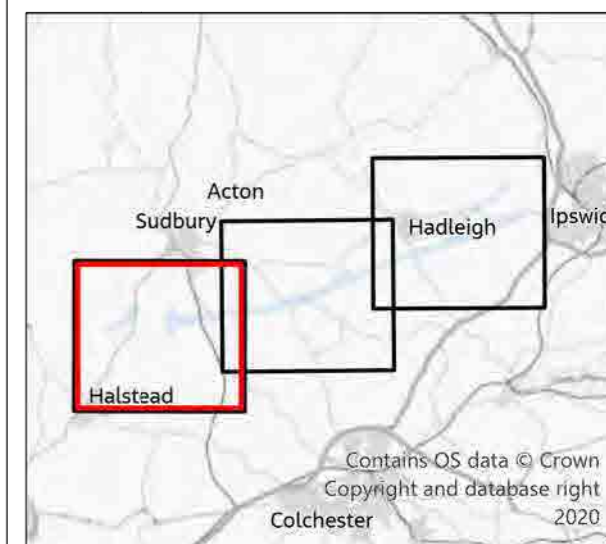
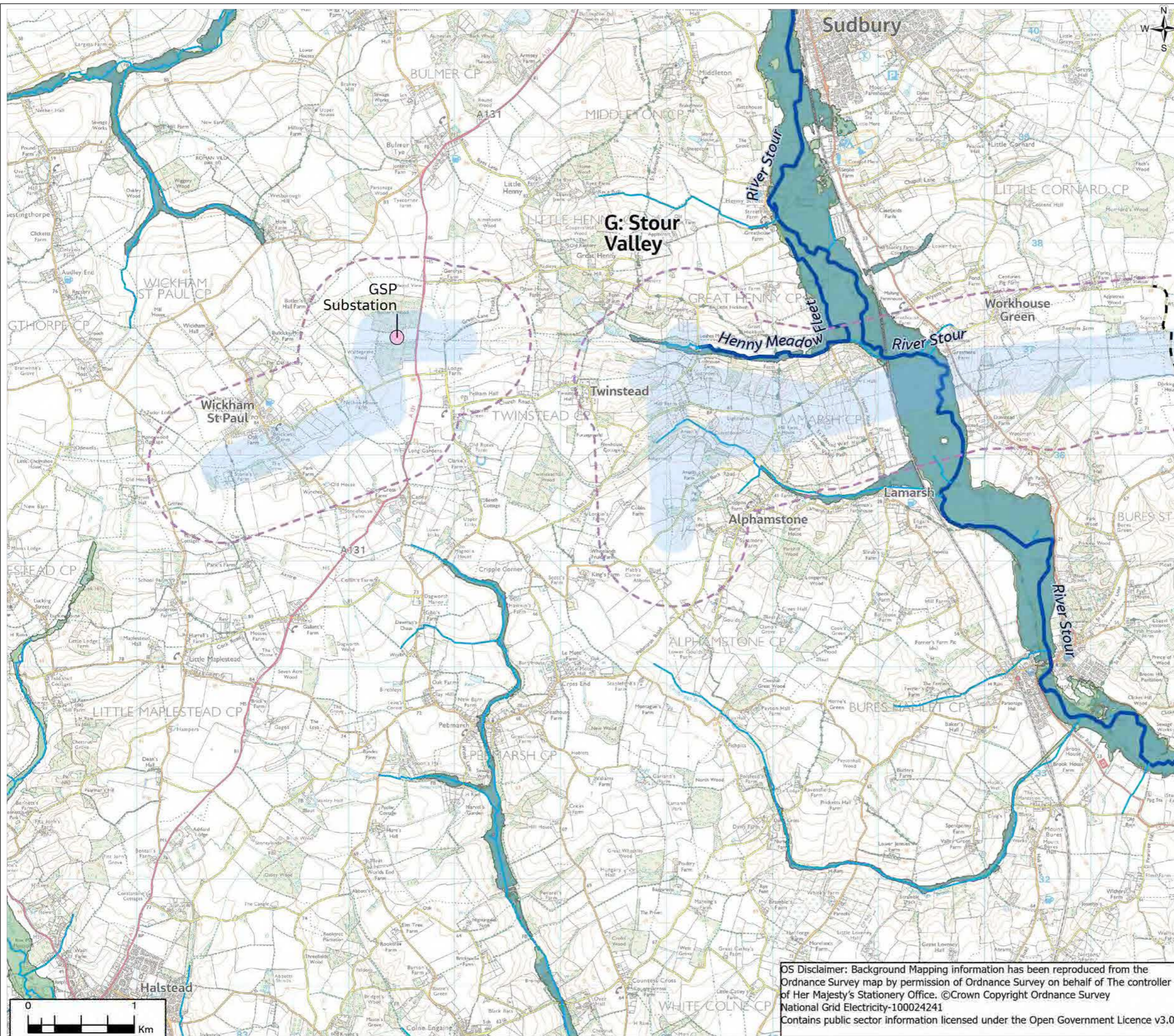
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**FIGURE 9.1**

**Legend**

- - Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Study area (500m)
- Main Rivers
- Non-Main Rivers
- Environment Agency flood zone 2
- Environment Agency flood zone 3



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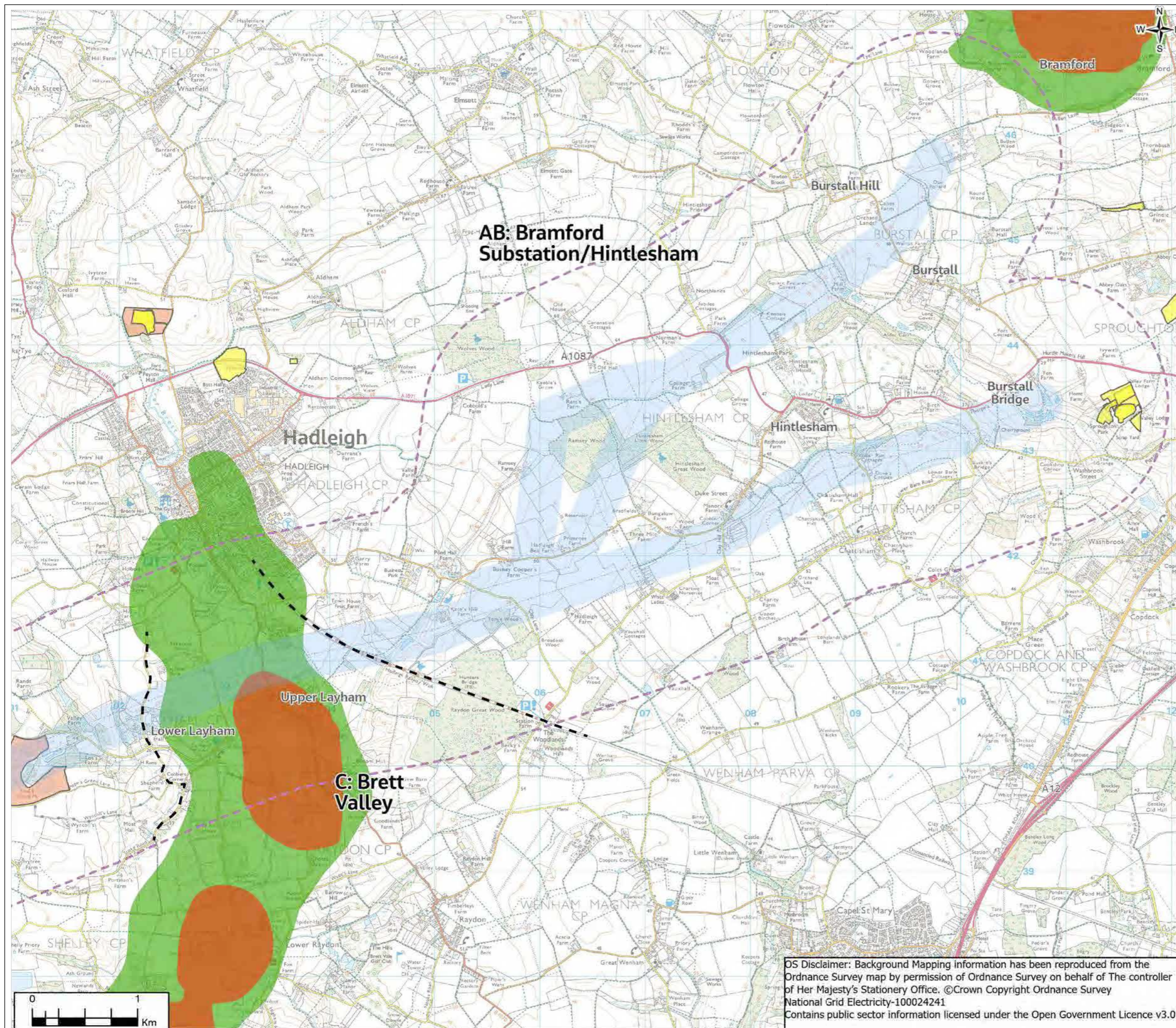
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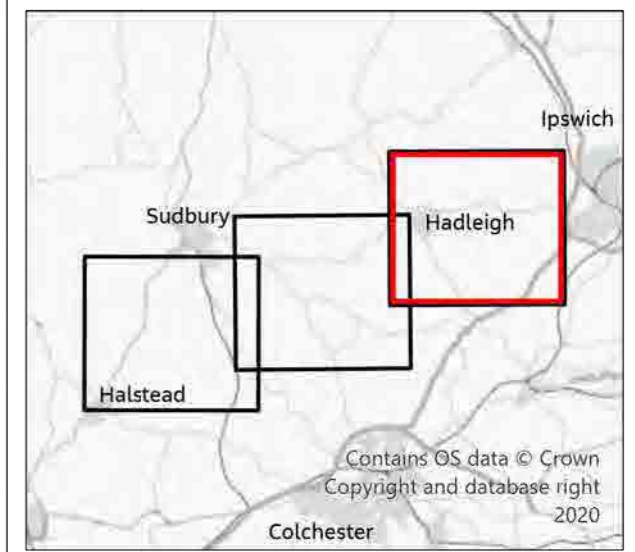
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**FIGURE 10.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Wider study area (1km)
  - Authorised Landfill Sites
  - Historic Landfill Sites
- Source Protection Zones**
- Zone I - Inner Protection Zone
  - Zone II - Outer Protection



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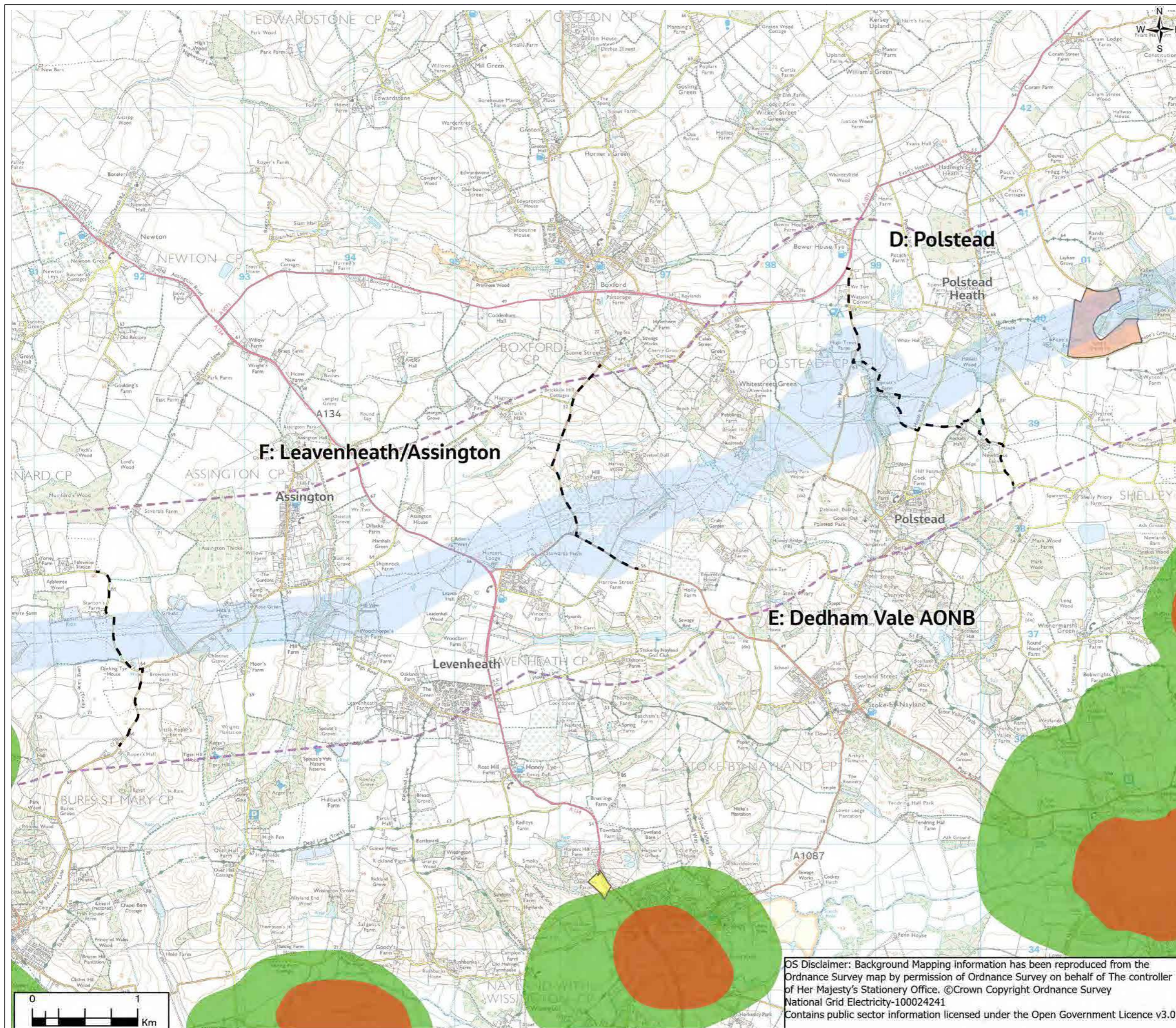
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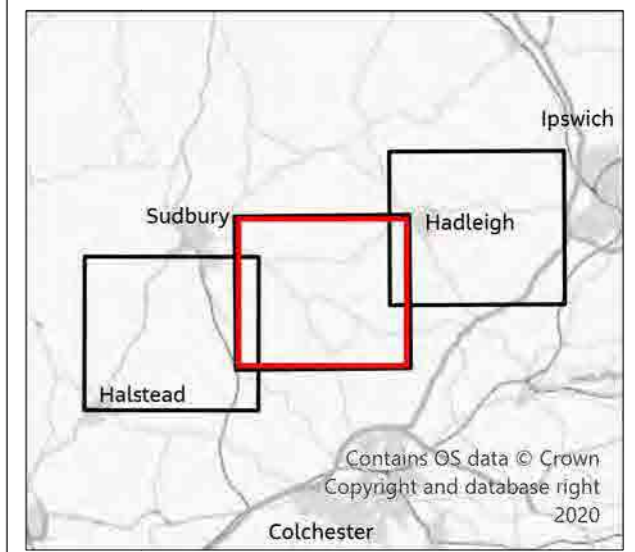
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**FIGURE 10.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Wider study area (1km)
  - Authorised Landfill Sites
  - Historic Landfill Sites
- Source Protection Zones**
- Zone I - Inner Protection Zone
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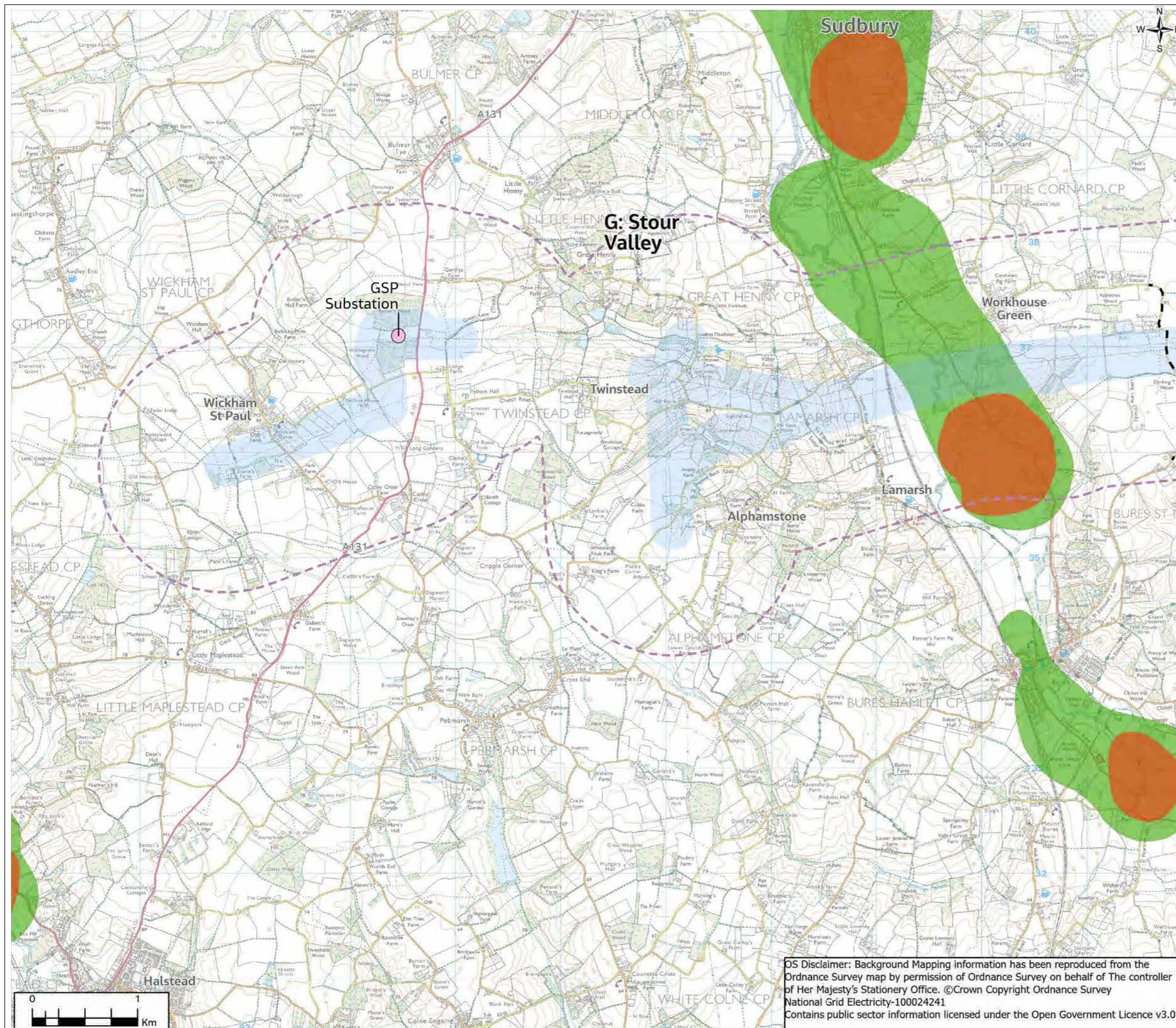
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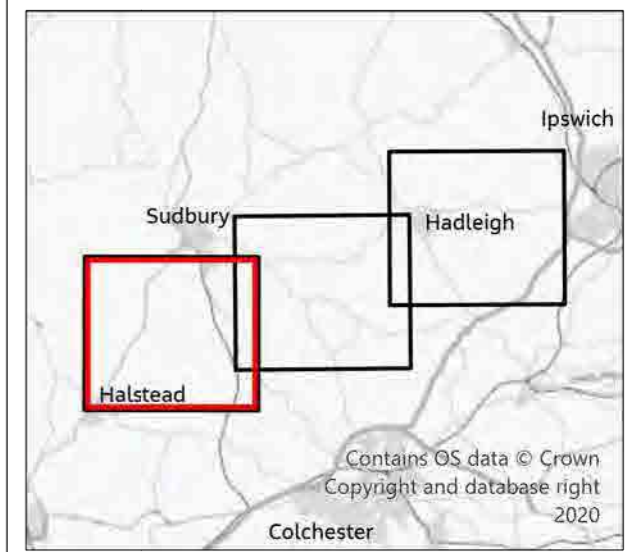
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**FIGURE 10.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Wider study area (1km)
  - Authorised Landfill Sites
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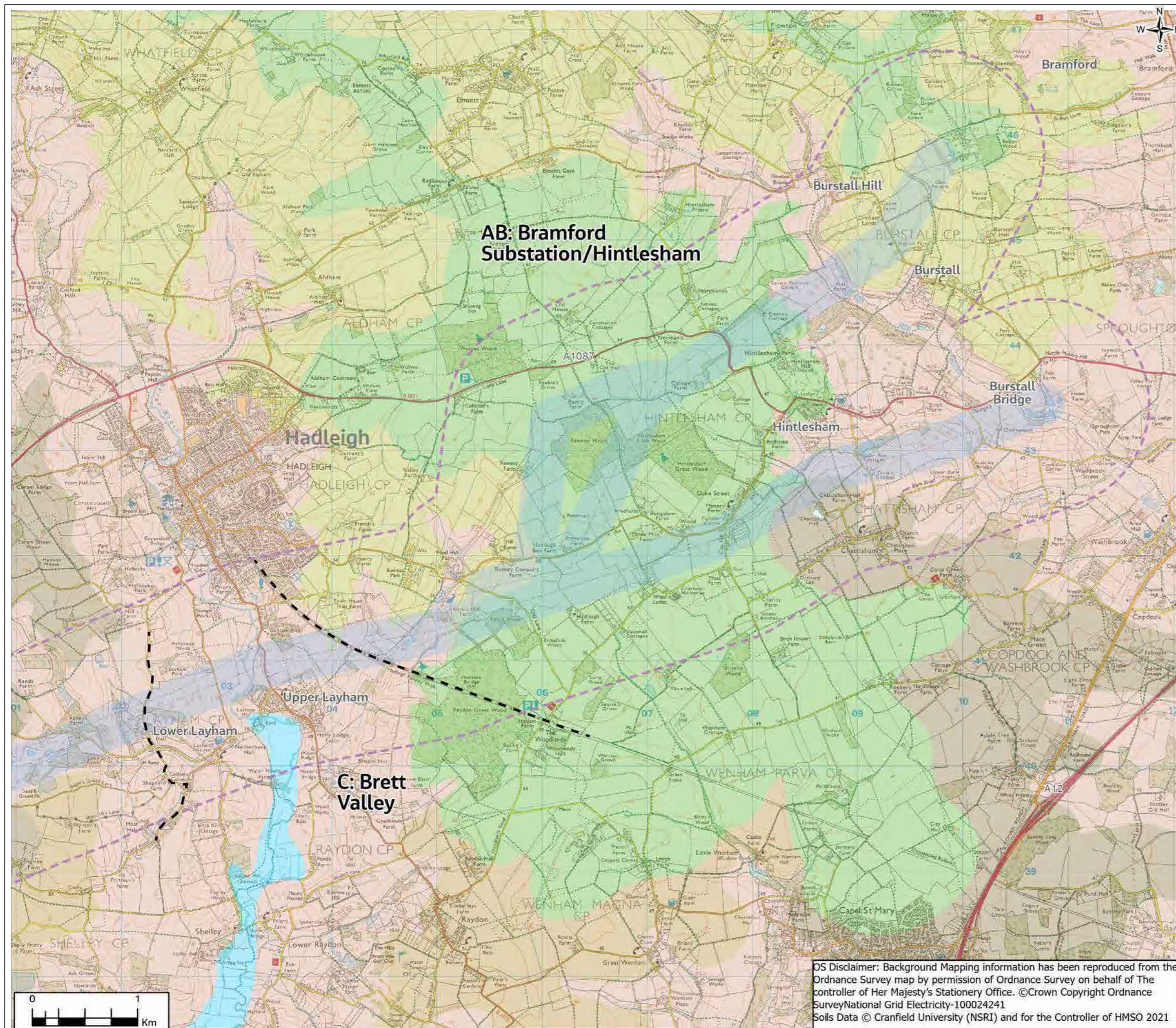
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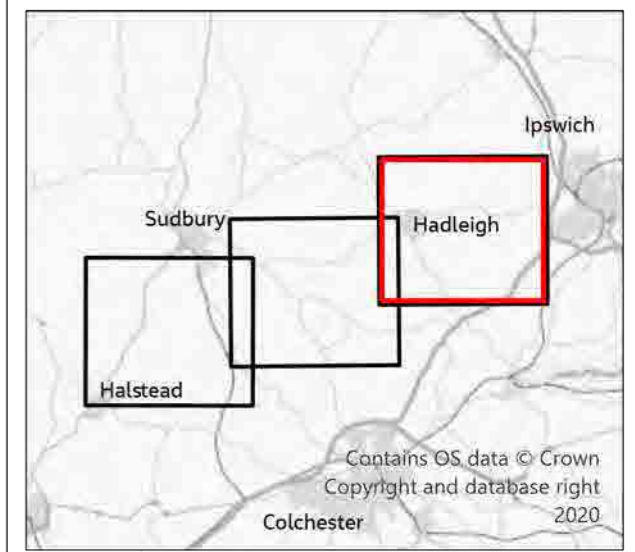


**Legend**

- - Section boundaries
- ▬ Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- ▭ Study area (1km)

**Soilscapes**

- ▭ Freely draining slightly acid loamy soils
- ▭ Lime-rich loamy and clayey soils with impeded drainage
- ▭ Slightly acid loamy and clayey soils with impeded drainage
- ▭ Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils
- ▭ Freely draining slightly acid but base-rich soils
- ▭ Loamy and clayey floodplain soils with naturally high groundwater
- ▭ Water



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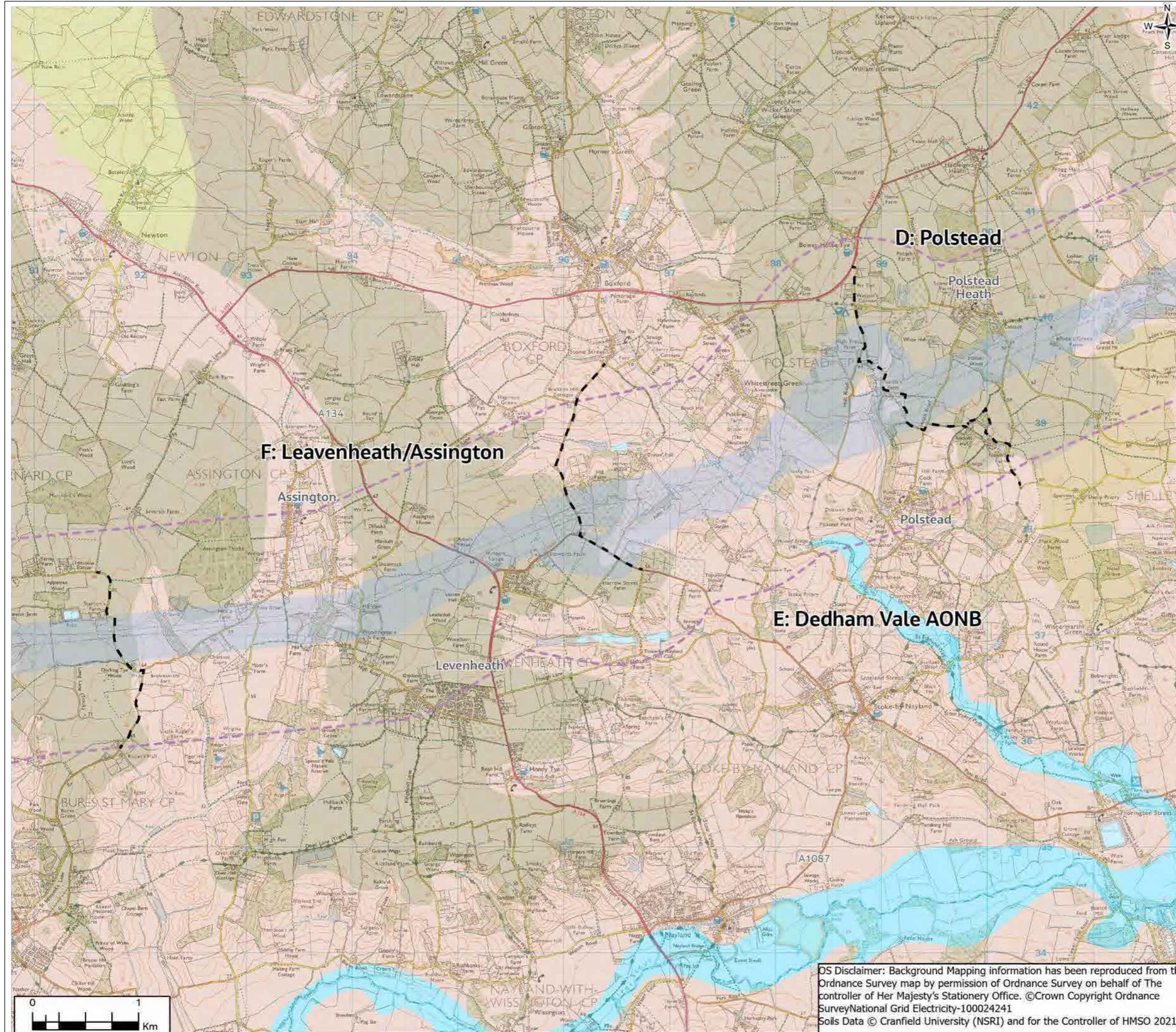
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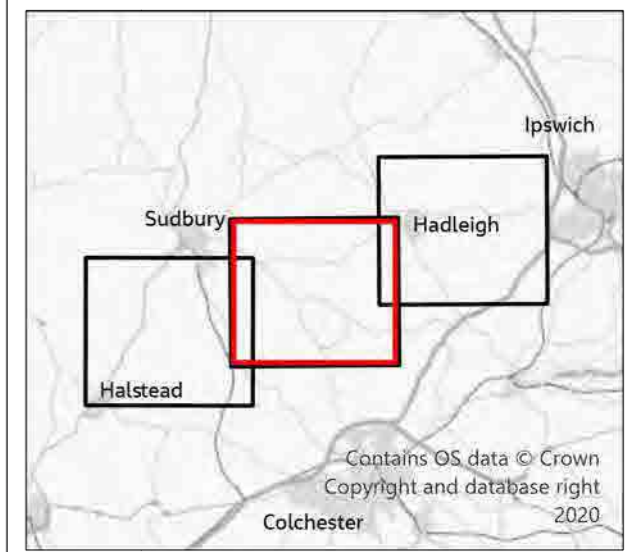
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**FIGURE 11.1**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - ▭ Study area (1km)
- Soilscapes**
- Freely draining slightly acid loamy soils
  - Lime-rich loamy and clayey soils with impeded drainage
  - Slightly acid loamy and clayey soils with impeded drainage
  - Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils
  - Freely draining slightly acid but base-rich soils
  - Loamy and clayey floodplain soils with naturally high groundwater
  - Water



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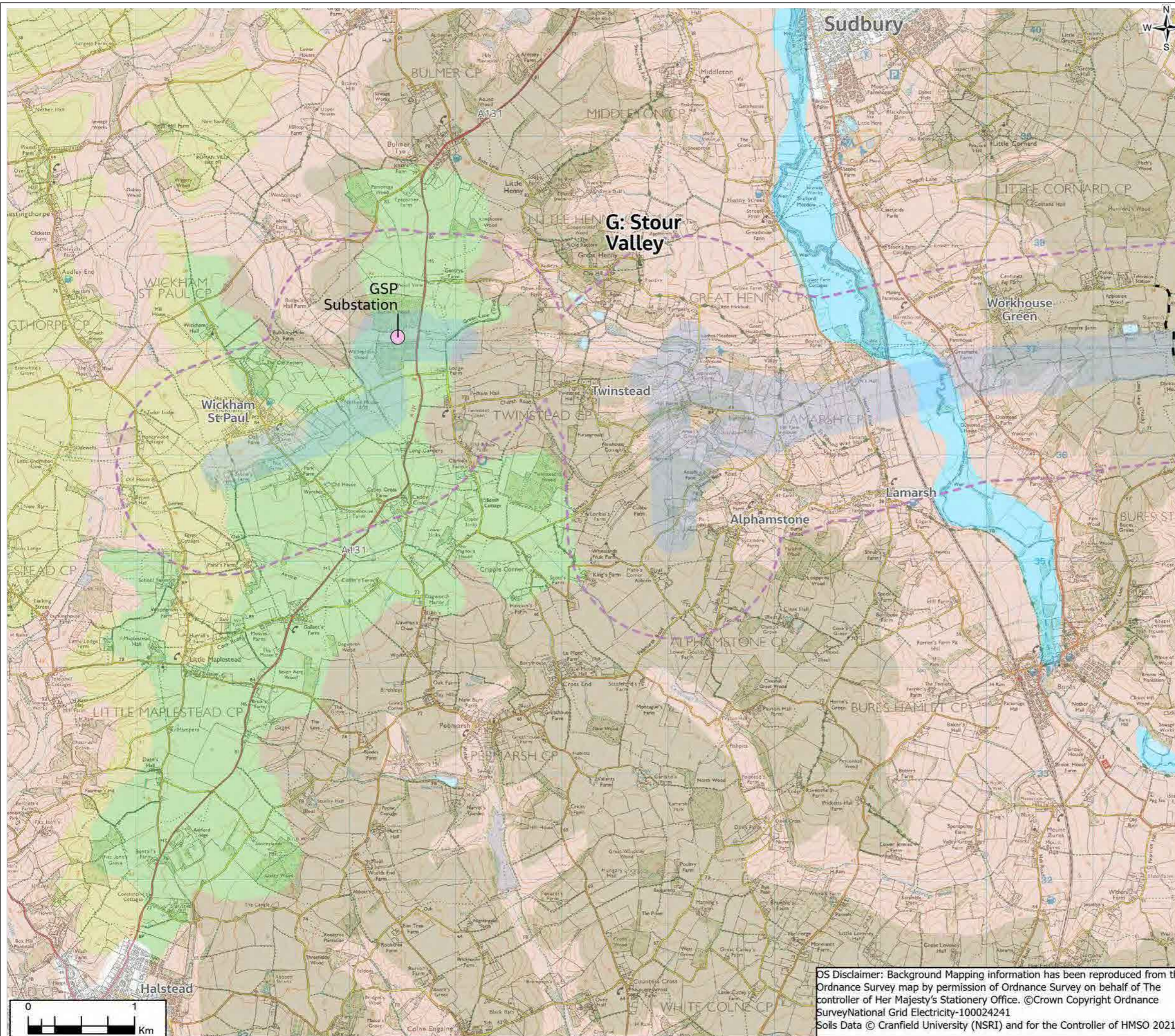
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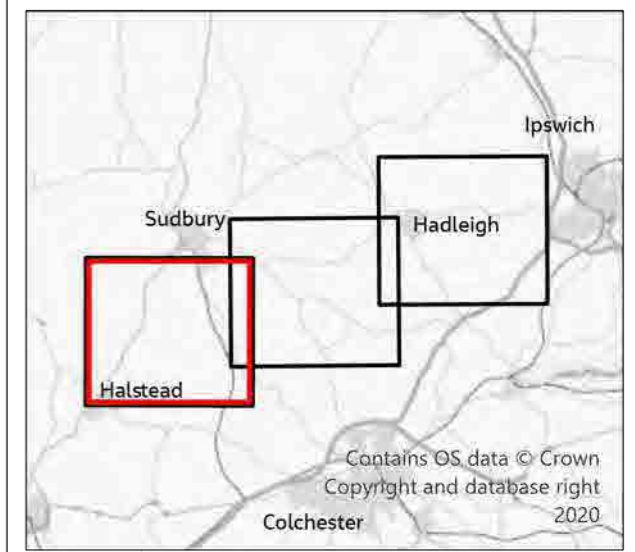
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**FIGURE 11.1**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - ▭ Study area (1km)
- Soilscapes**
- Freely draining slightly acid loamy soils
  - Lime-rich loamy and clayey soils with impeded drainage
  - Slightly acid loamy and clayey soils with impeded drainage
  - Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils
  - Freely draining slightly acid but base-rich soils
  - Loamy and clayey floodplain soils with naturally high groundwater
  - Water



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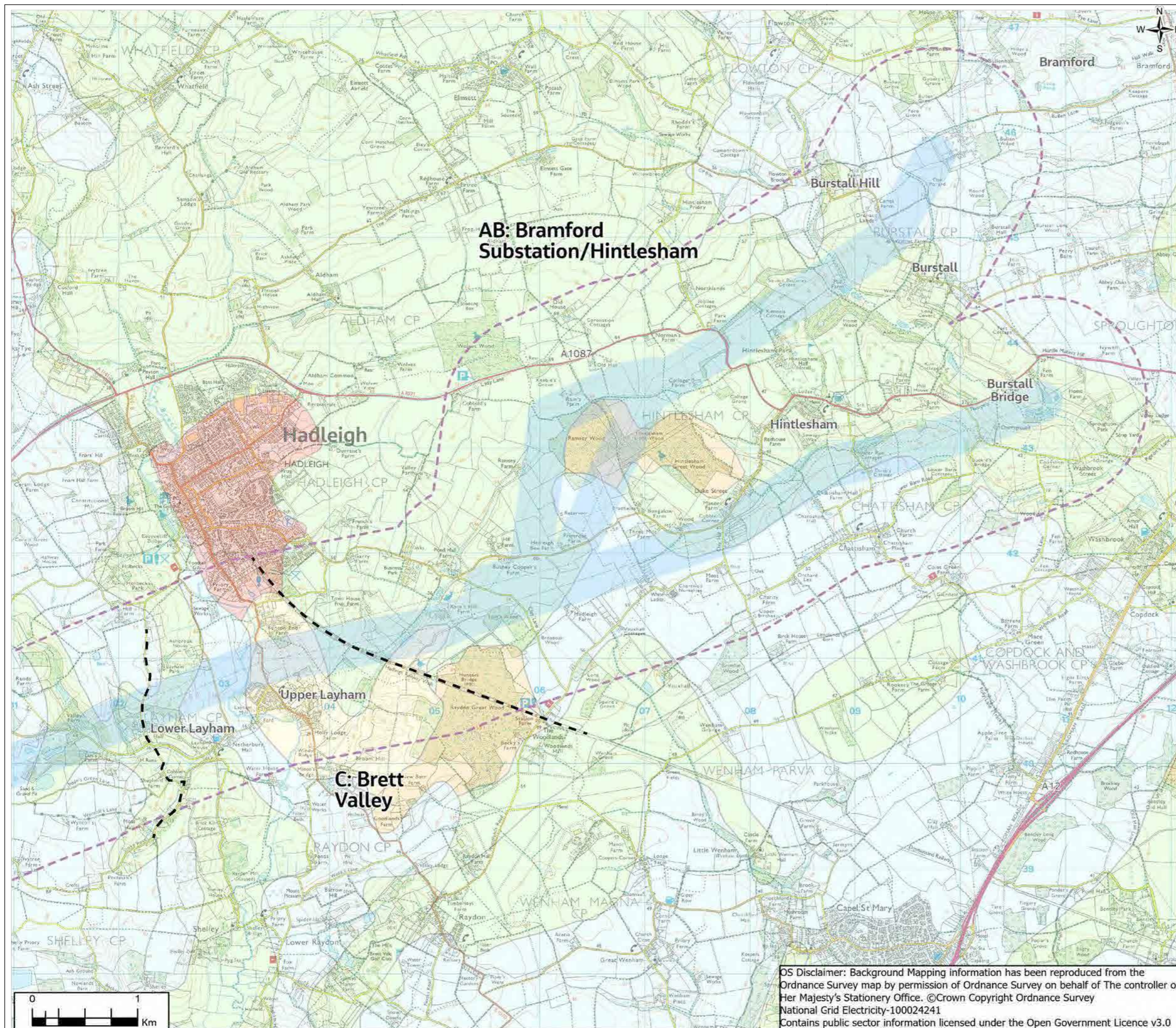
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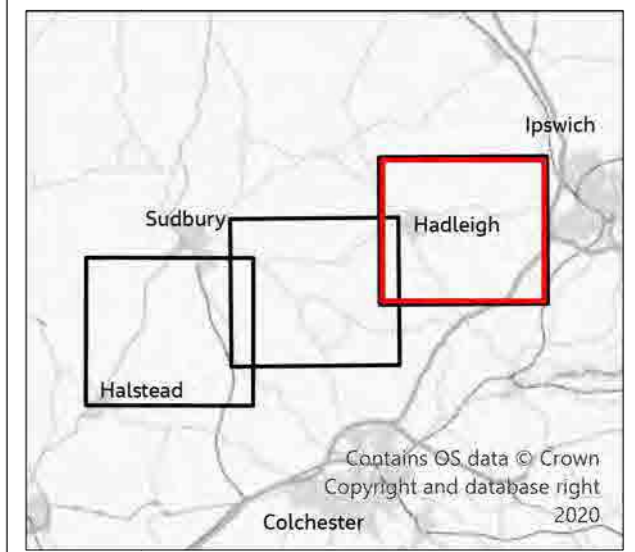
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**FIGURE 11.2**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area (1km)
- Agricultural Land Classification (ALC)**
- Grade 2
  - Grade 3
  - Grade 4
  - Non Agricultural
  - Urban



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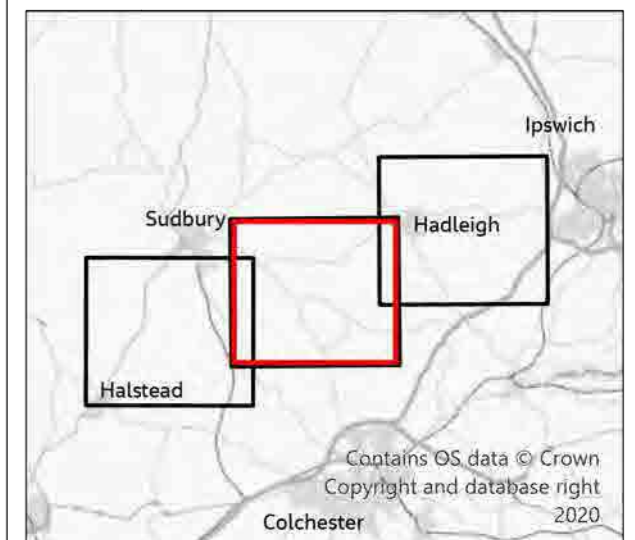
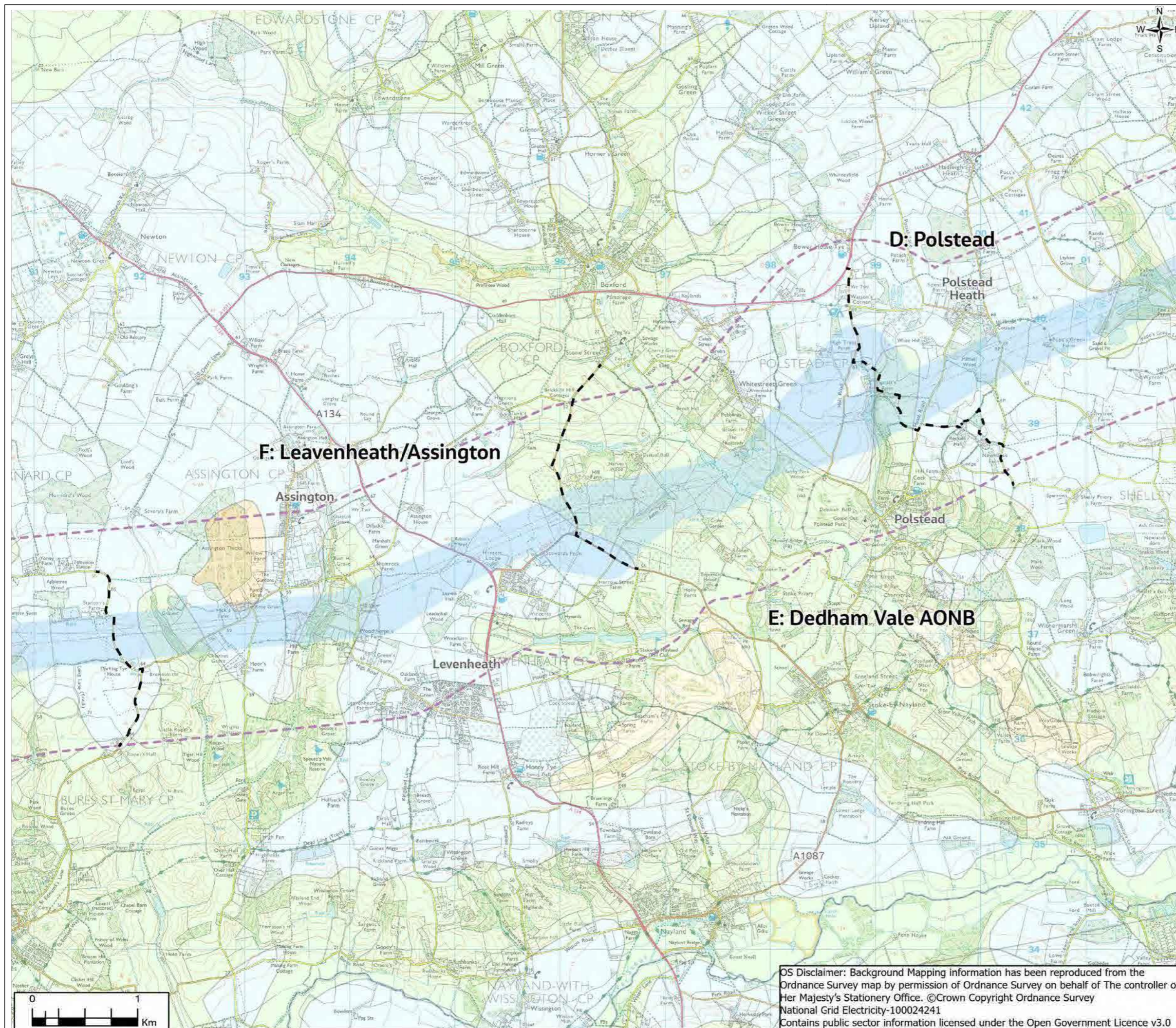
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**FIGURE 11.2**

- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area (1km)
- Agricultural Land Classification (ALC)**
- Grade 2
  - Grade 3
  - Grade 4
  - Non Agricultural



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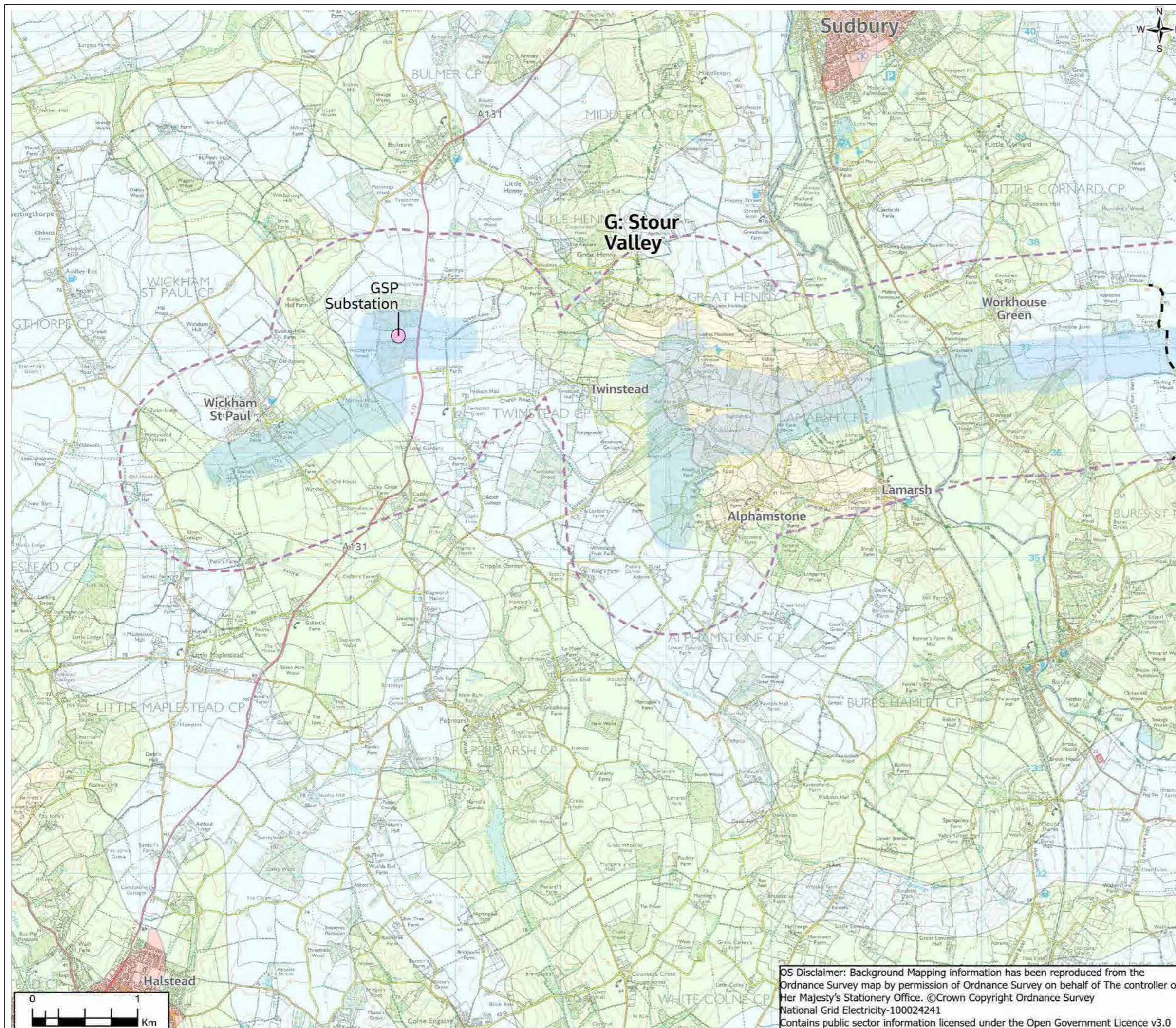
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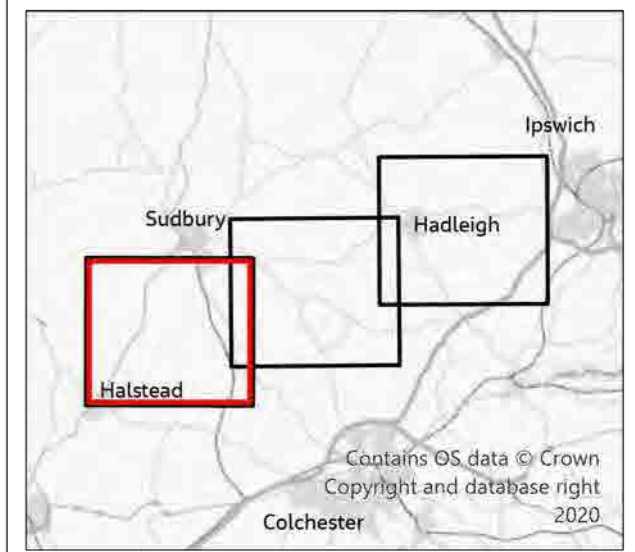
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**FIGURE 11.2**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area (1km)
- Agricultural Land Classification (ALC)**
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  - Grade 3
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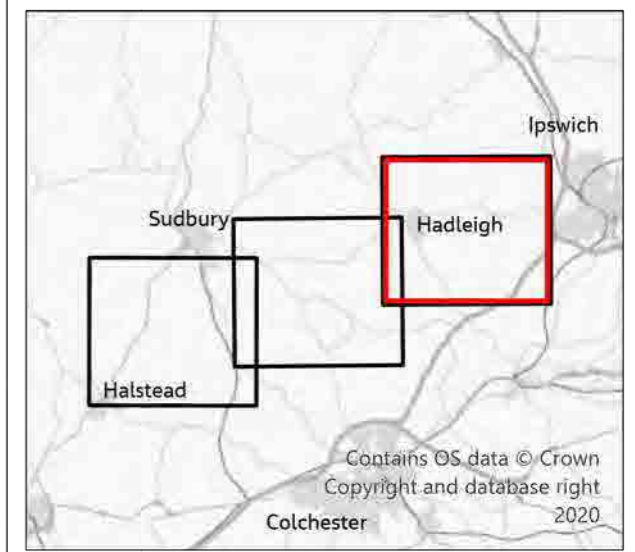
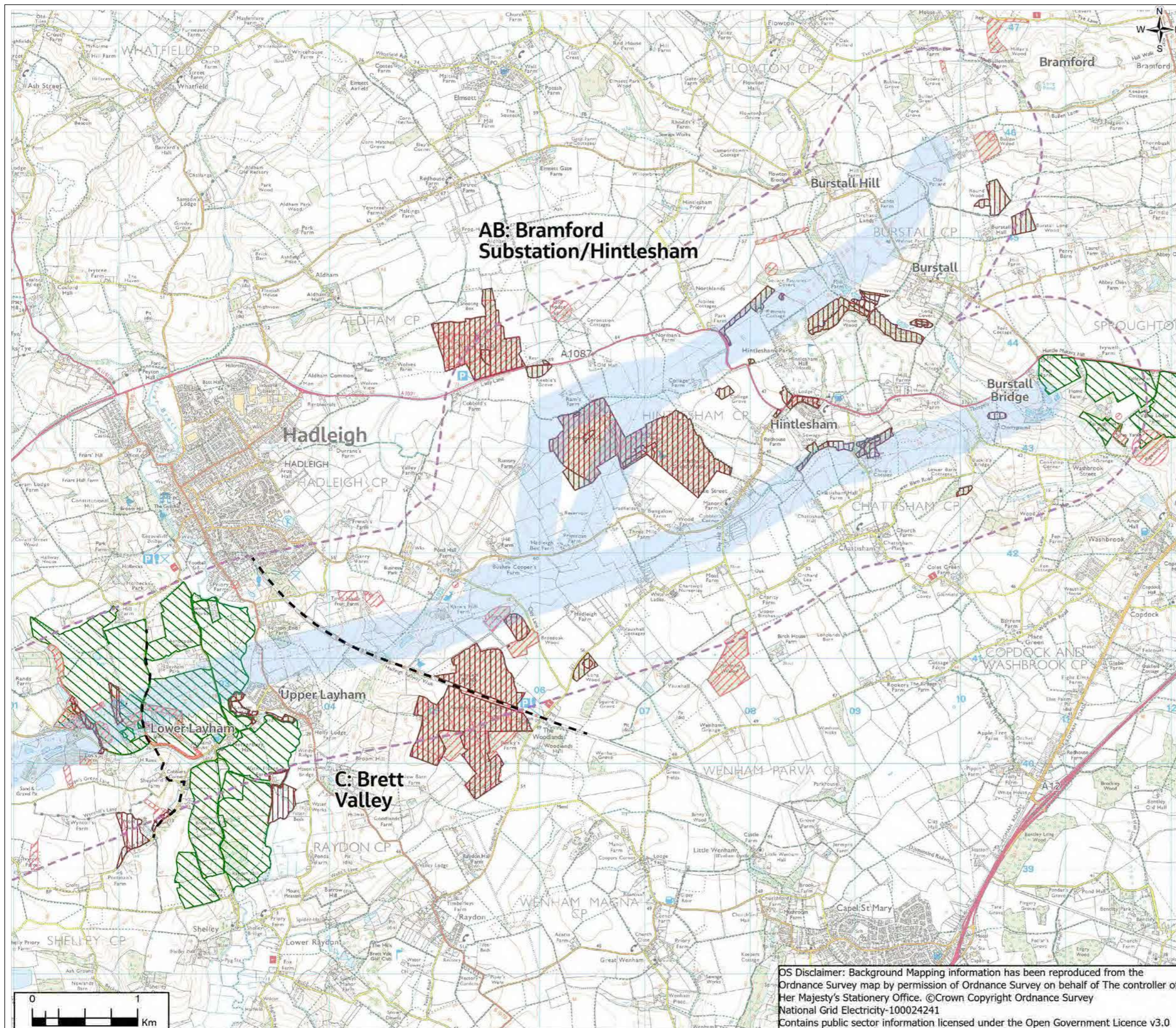
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**FIGURE 11.3**

**Legend**

- - Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Study area (1km)
- Felling licence applications
- Woodland grant schemes
- Environmental stewardship agreements
- Entry level plus higher level stewardship



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Drawing Status **Final**

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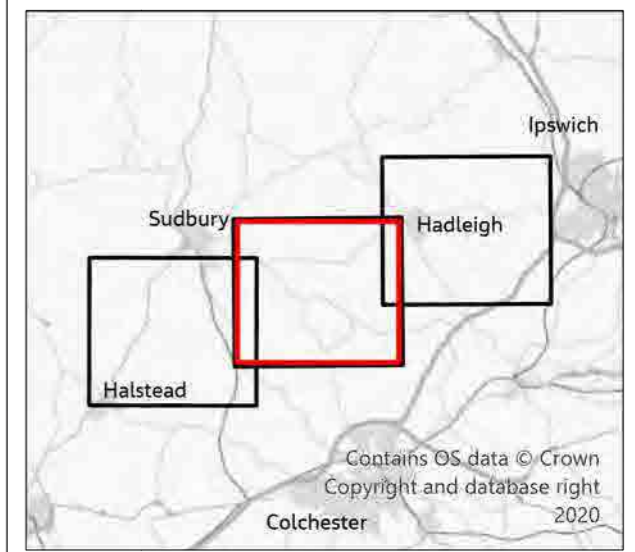
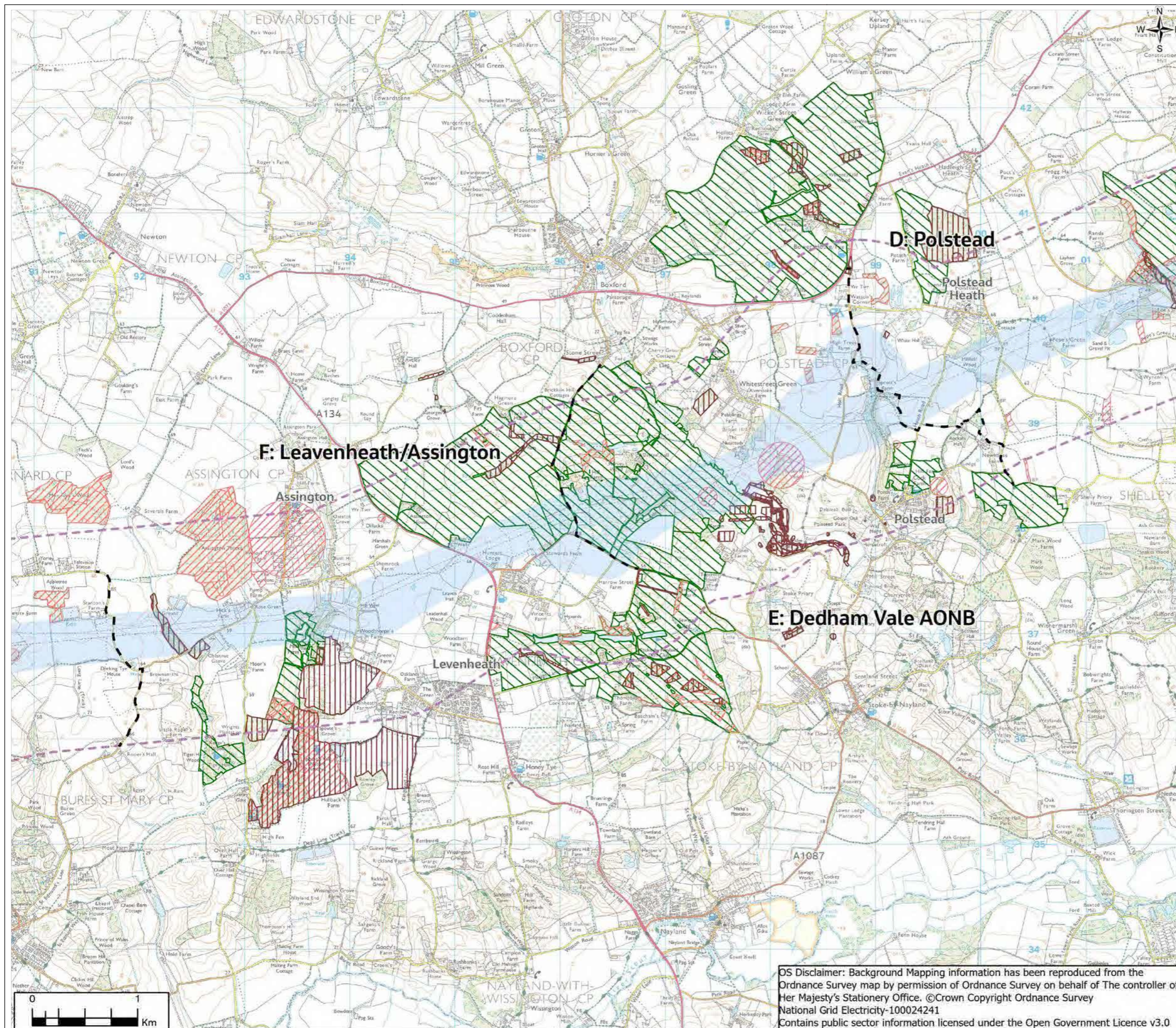
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**FIGURE 11.3**

**Legend**

- Section boundaries
- Scoping Boundary
- Proposed Grid Supply Point (GSP) Substation
- Study area (1km)
- Felling licence applications
- Woodland grant schemes
- Environmental stewardship agreements
- Entry level plus higher level stewardship



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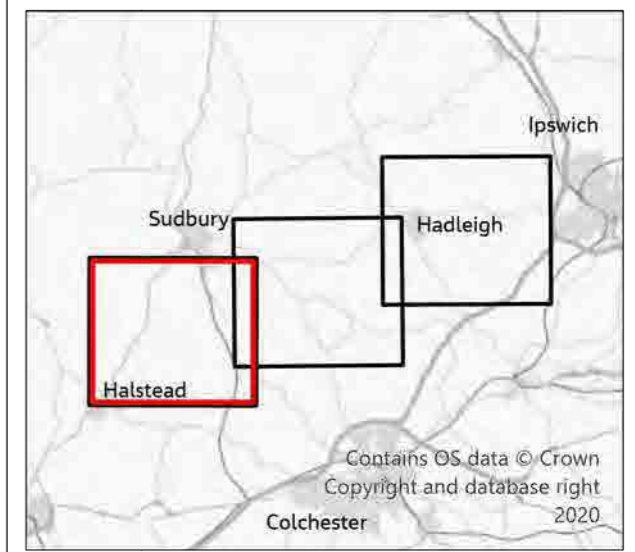
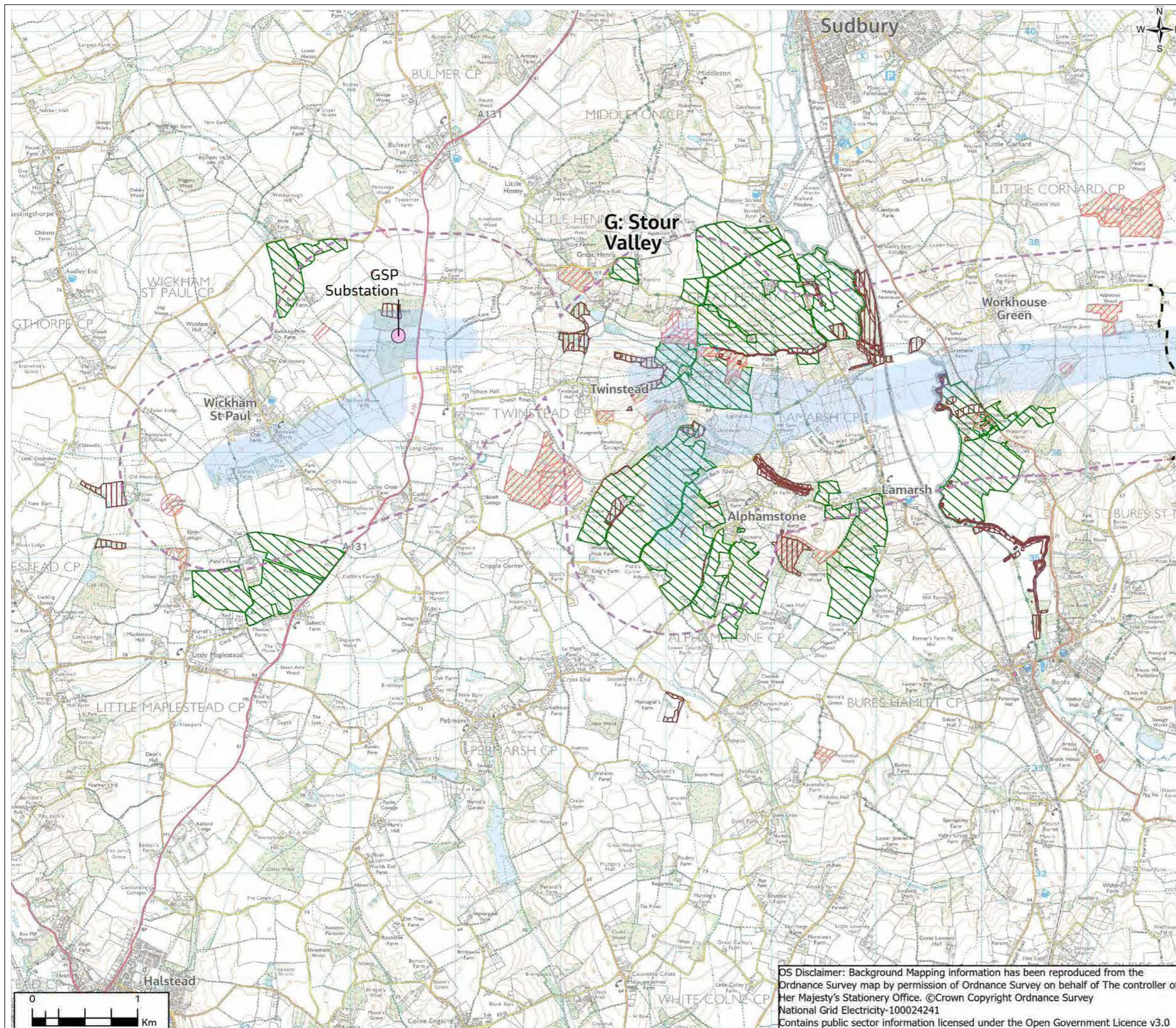
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**FIGURE 11.3**

- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Study area (1km)
  - Felling licence applications
  - Woodland grant schemes
  - Environmental stewardship agreements
  - Entry level plus higher level stewardship



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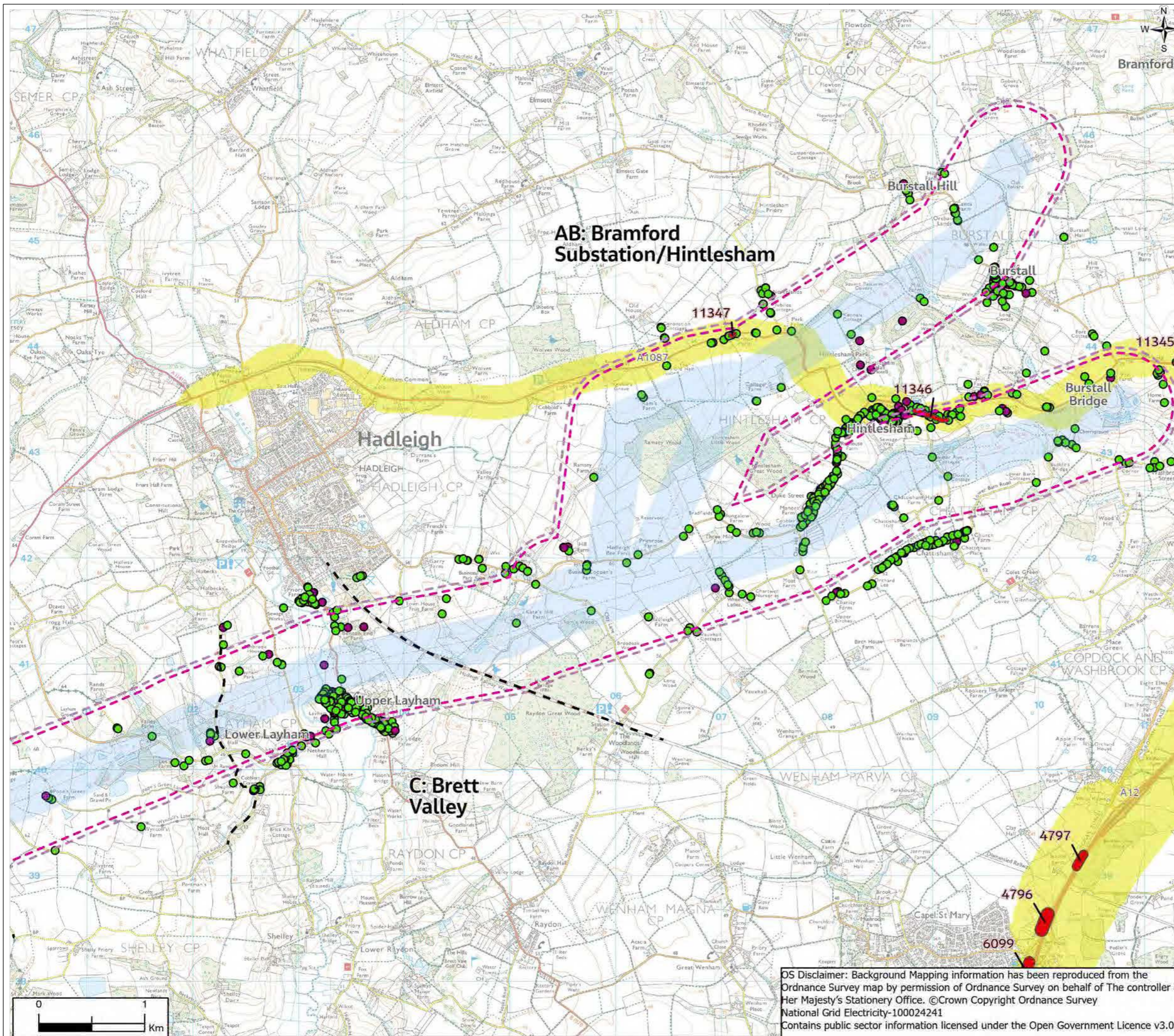
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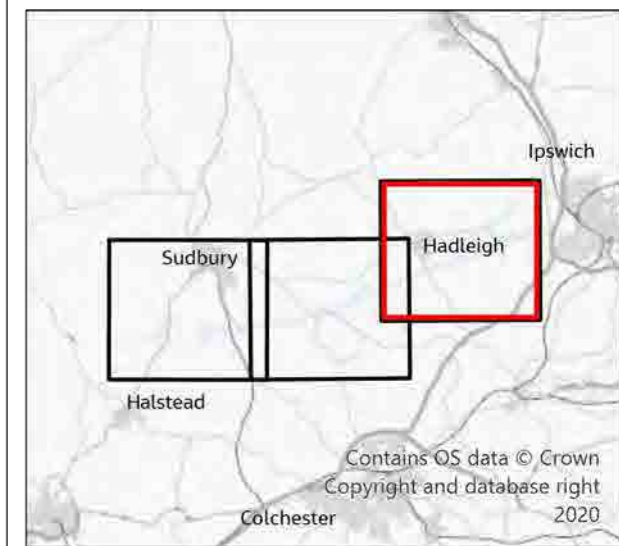
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**FIGURE 14.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Noise study area (300m)
  - Air Quality study area (350m)
  - Noise Important Area (NIA)
  - 11345 NIA reference number
  - Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Noise sensitive receptors (NSR) within 600m of the Scoping Boundary**
- Non-residential NSR
  - Residential NSR



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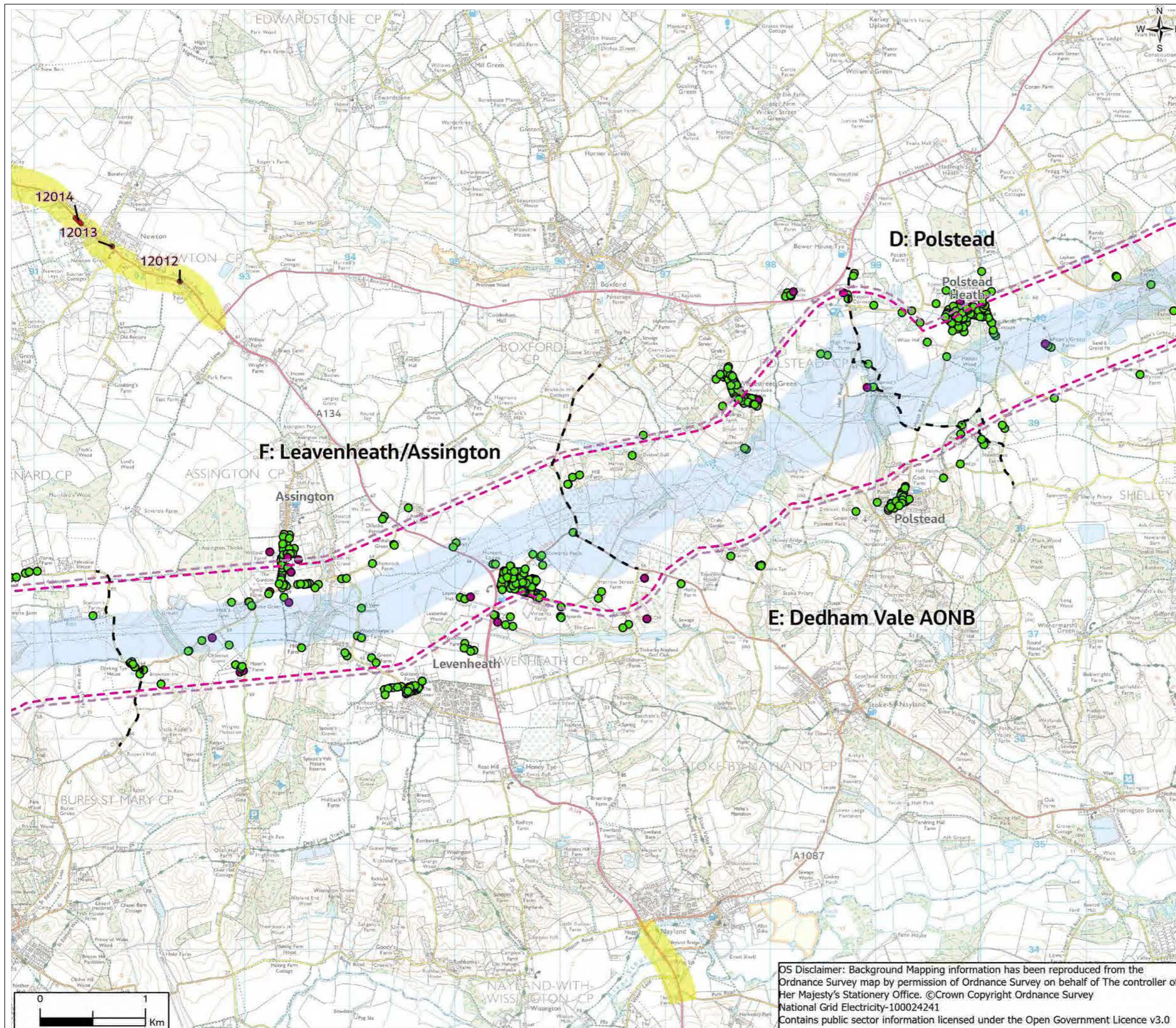
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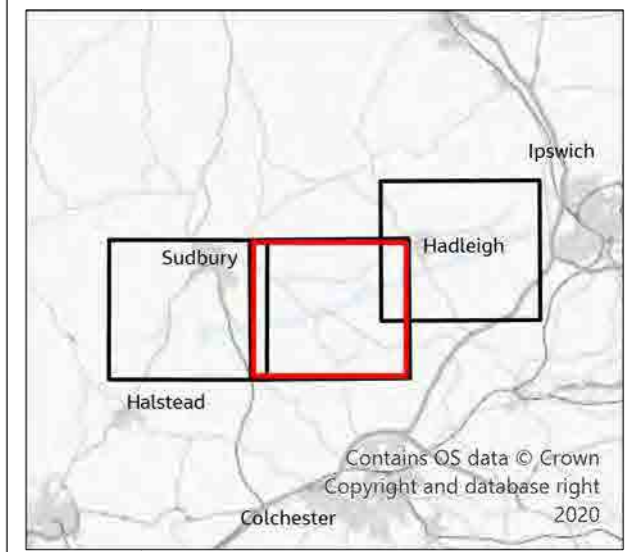
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**FIGURE 14.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Noise study area (300m)
  - Air Quality study area (350m)
  - Noise Important Area (NIA)
  - 11345 NIA reference number
  - Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Noise sensitive receptors (NSR) within 600m of the Scoping Boundary**
- Non-residential NSR
  - Residential NSR



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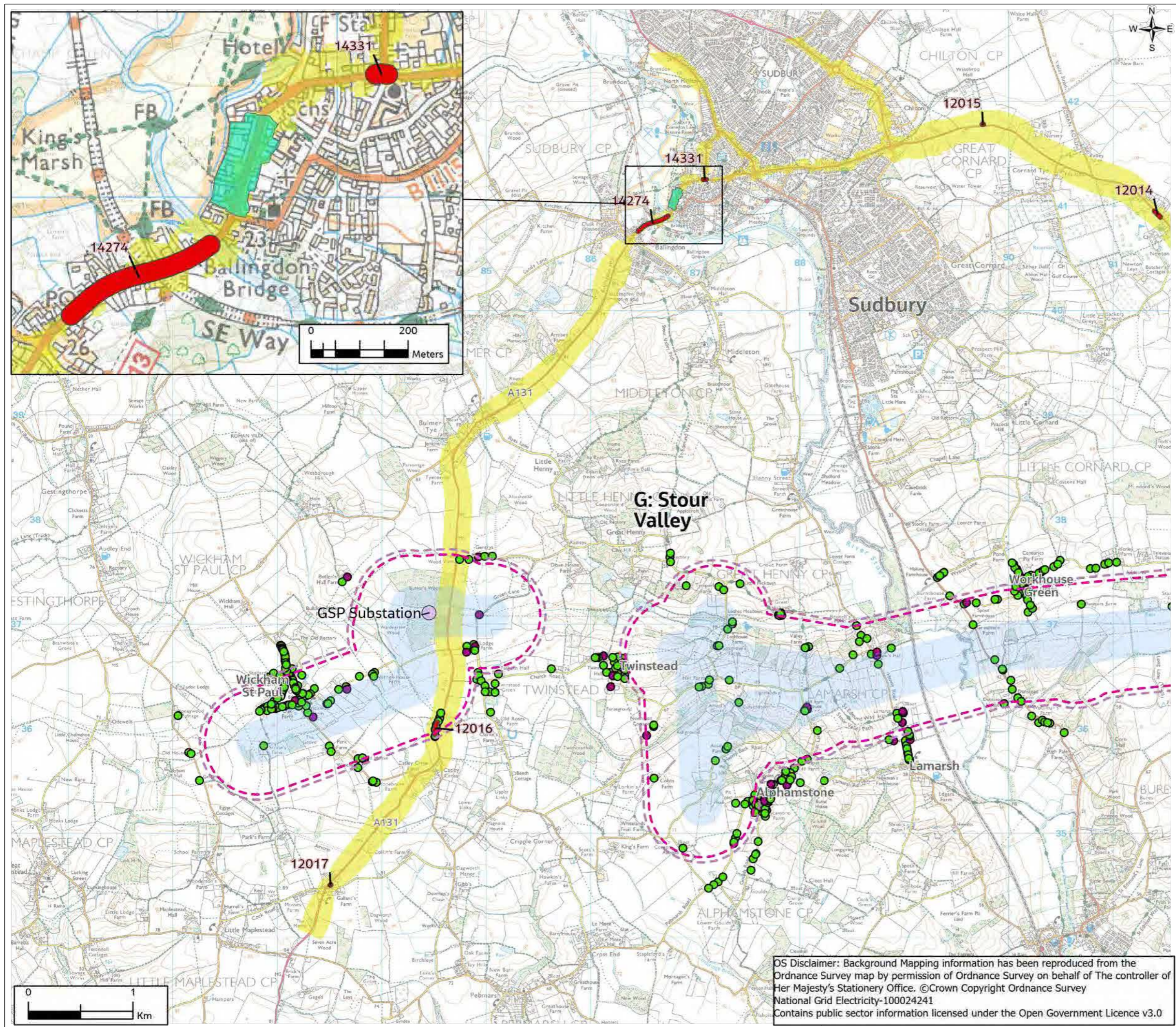
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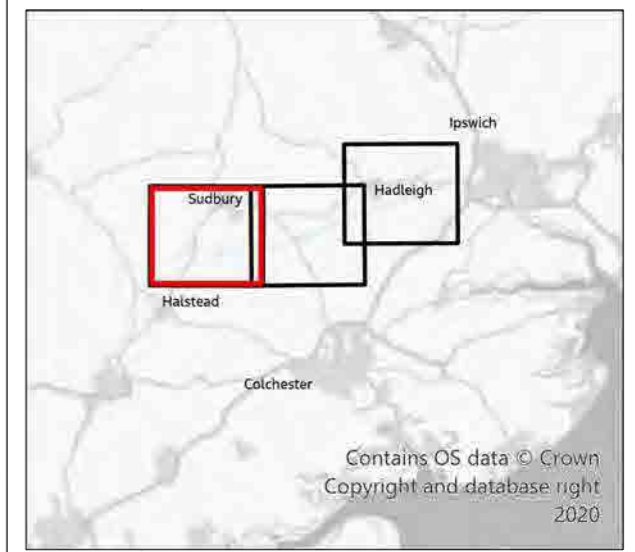
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**FIGURE 14.1**



- Legend**
- - Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Noise study area (300m)
  - Air Quality study area (350m)
  - Air Quality Management Area (AQMA)
  - Noise Important Area (NIA)
  - 11345 NIA reference number
  - Daytime dB LAeq 16 hr greater than 55dB (Defra, 2017)
- Noise sensitive receptors (NSR) within 600m of the Scoping Boundary**
- Non-residential NSR
  - Residential NSR



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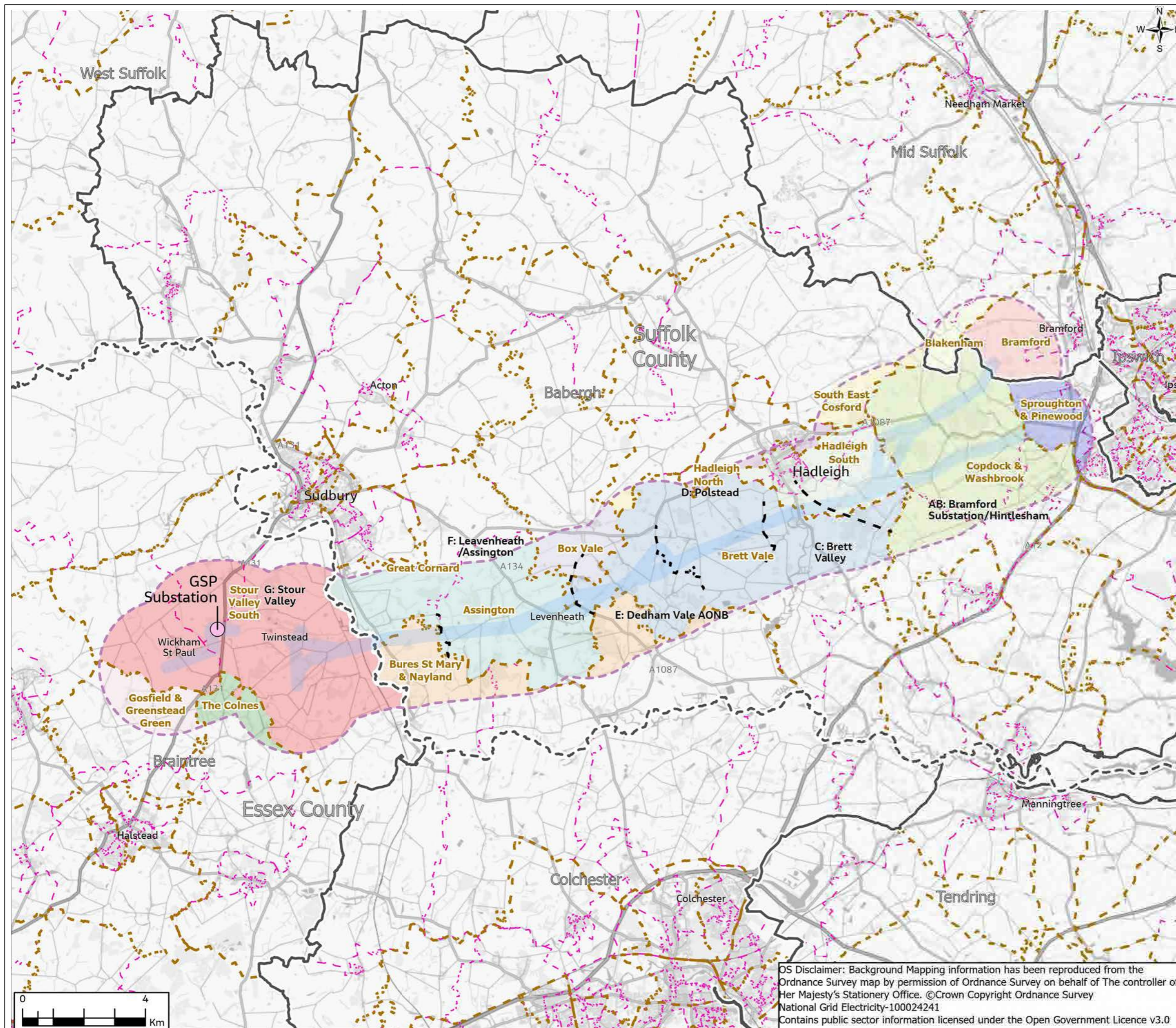
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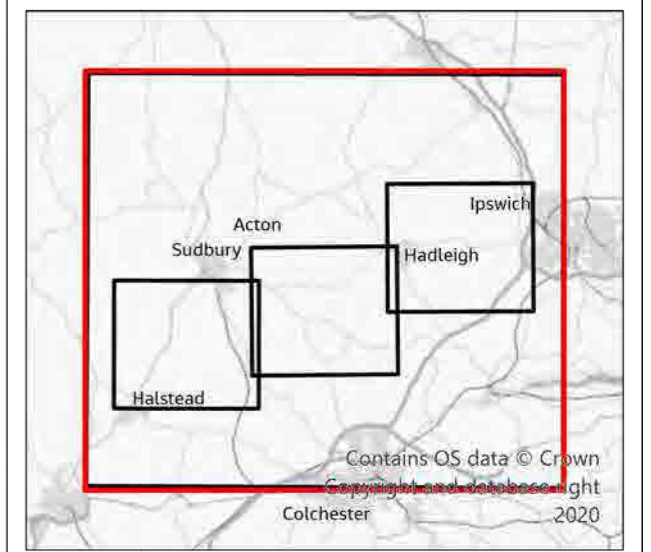
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**FIGURE 15.1**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Wider study area (2km)
  - County Council
  - Local authority districts
  - Wards
  - Ward name
  - Lower Layer Super Output Areas
  - Wards within 2km of Proposed Corridor
  - Assington
  - Blakenham
  - Box Vale
  - Bramford
  - Brett Vale
  - Bures St Mary & Nayland
  - Copdock & Washbrook
  - Gosfield & Greenstead Green
  - Great Cornard
  - Hadleigh North
  - Hadleigh South
  - South East Cosford
  - Sproughton & Pinewood
  - Stour Valley South
  - The Colnes



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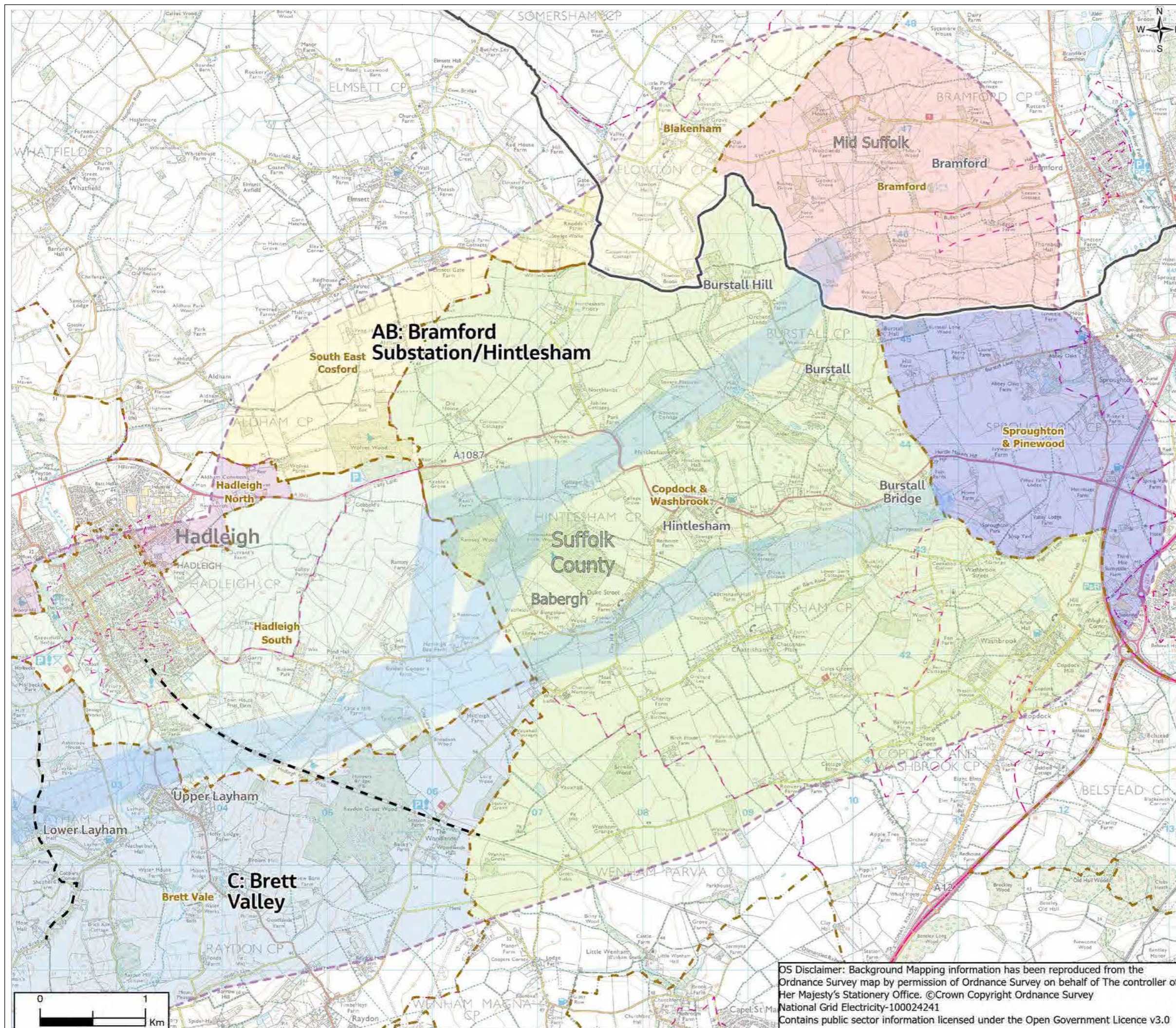
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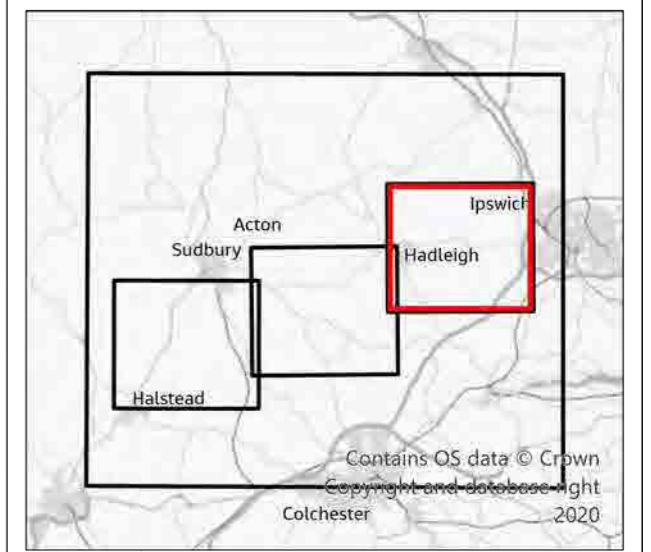
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**FIGURE 15.1**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - ▭ Wider study area (2km)
  - ▭ County Council
  - ▭ Local authority districts
  - ▭ Wards
  - ▭ Ward name
  - ▭ Lower Layer Super Output Areas
  - ▭ Assington
  - ▭ Blakenham
  - ▭ Box Vale
  - ▭ Bramford
  - ▭ Brett Vale
  - ▭ Bures St Mary & Nayland
  - ▭ Copdock & Washbrook
  - ▭ Gosfield & Greenstead Green
  - ▭ Great Cornard
  - ▭ Hadleigh North
  - ▭ Hadleigh South
  - ▭ South East Cosford
  - ▭ Sprooughton & Pinewood
  - ▭ Stour Valley South
  - ▭ The Colnes



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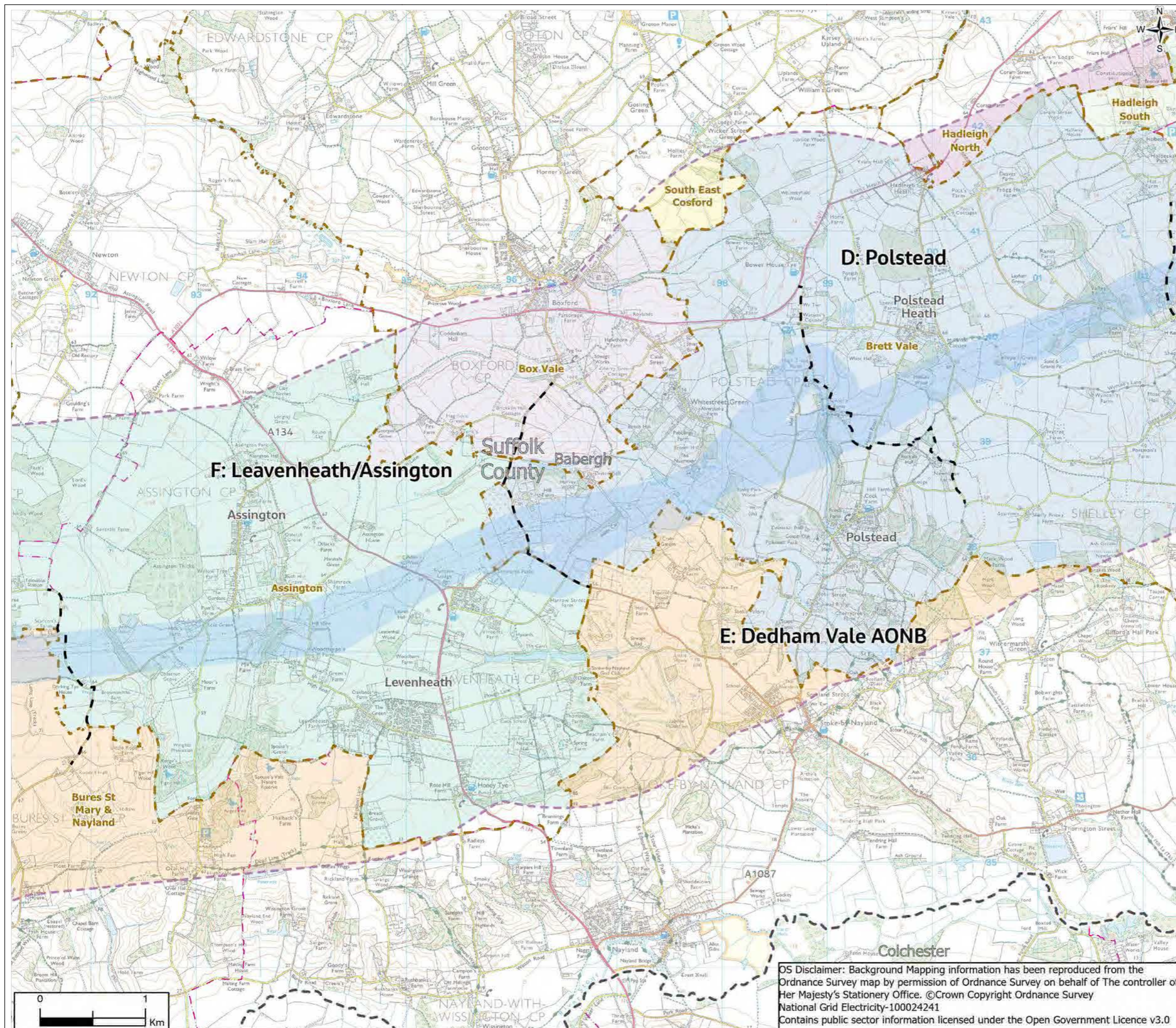
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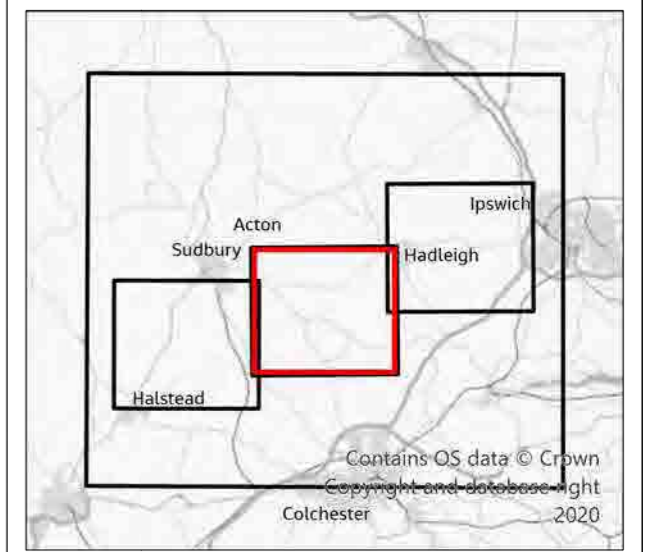
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**FIGURE 15.1**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Wider study area (2km)
  - County Council
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  - Ward name
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  - South East Cosford
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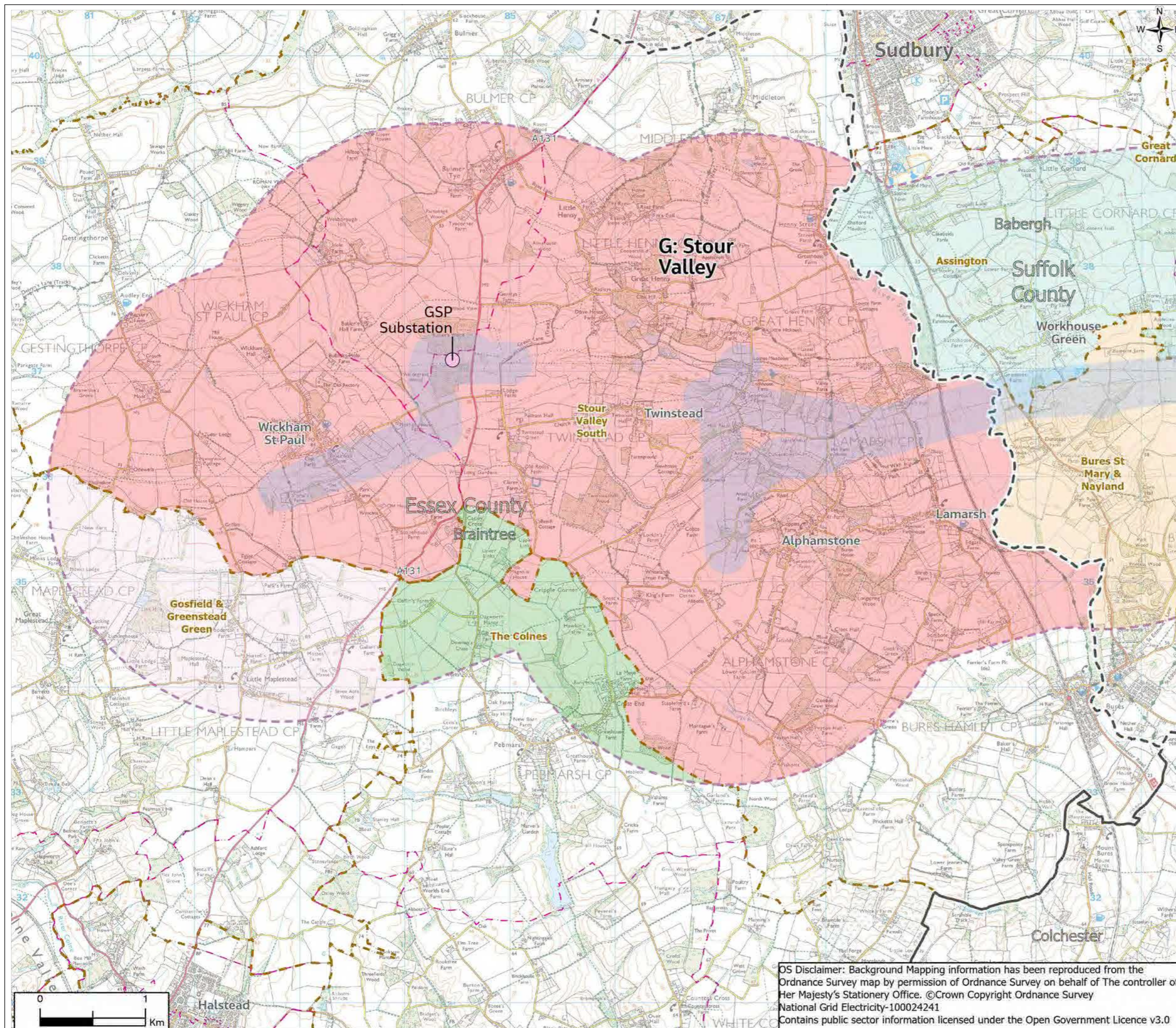
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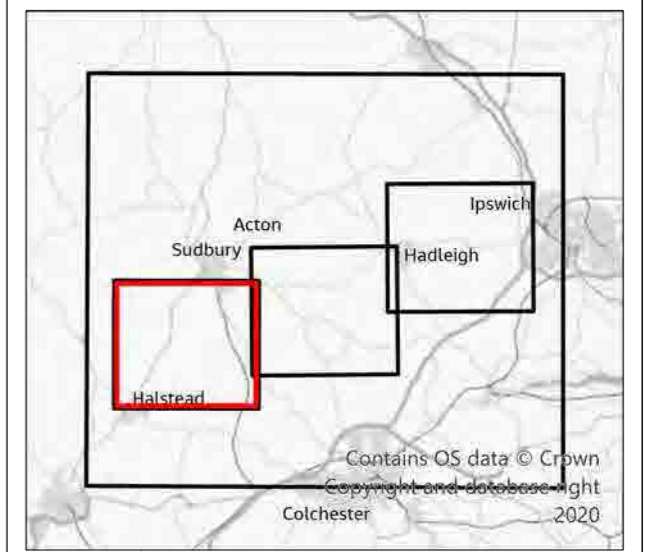
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**FIGURE 15.1**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
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  - Stour Valley South
  - The Colnes



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Administrative Boundaries

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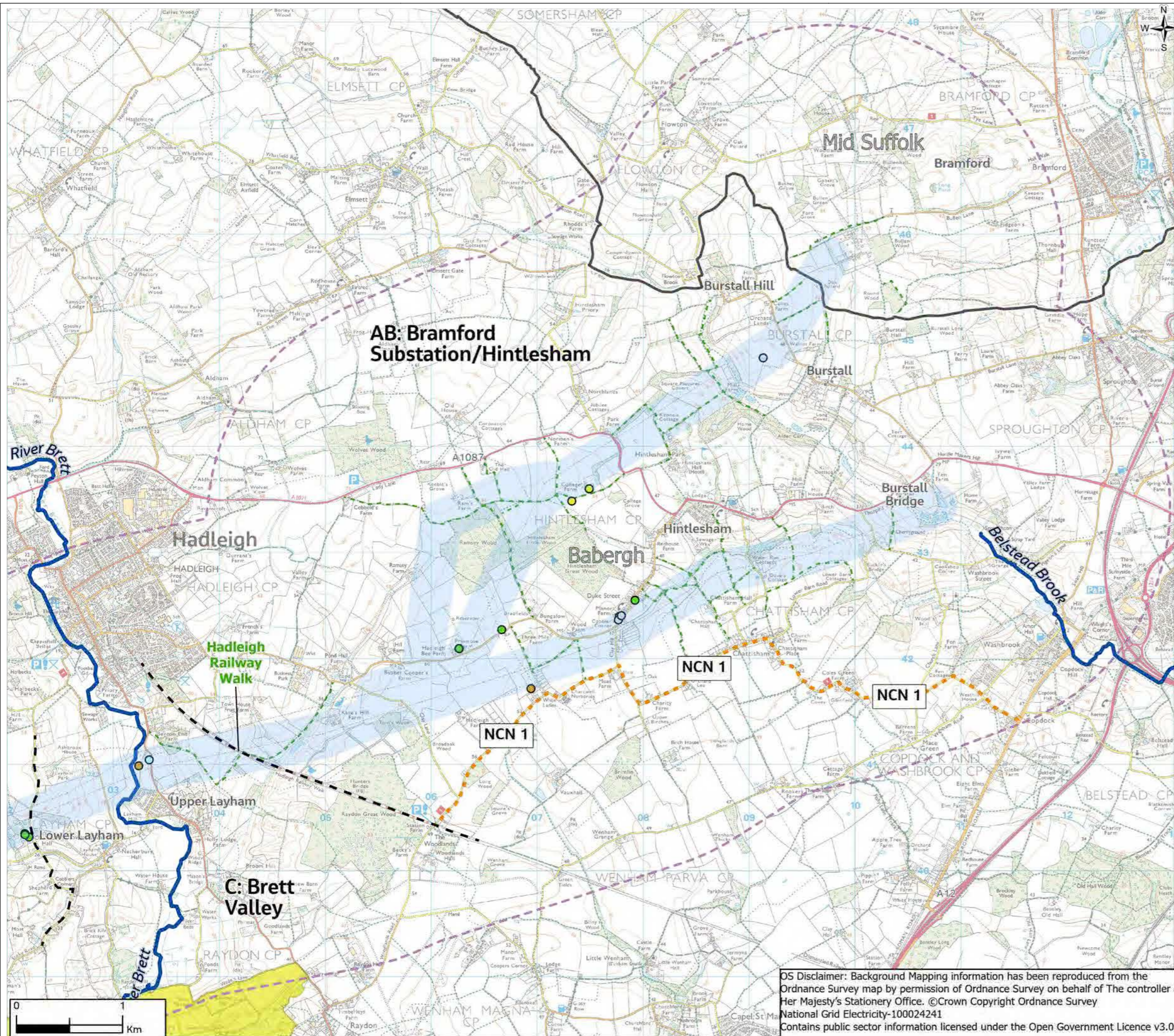
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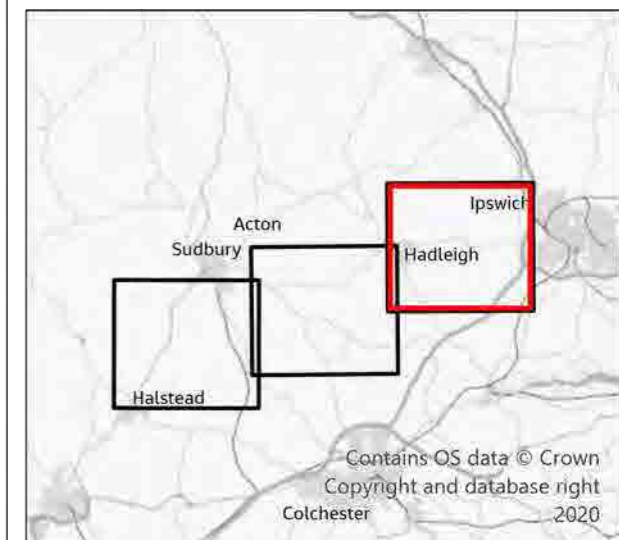
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FIGURE 15.2



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - ▭ Wider study area (2km)
  - ▭ Local authority districts
  - ▬ Main rivers
  - ▬ National Cycle Network (NCN)
  - ▬ Suffolk public rights of way \*
  - ▬ Long distance paths/promoted walks
  - ▭ Area of Outstanding Natural Beauty (AONB)
- Socio-economic features within the Scoping Boundary**
- Accommodation
  - Commercial
  - Commercial - Agricultural
  - Development
  - Dual Use
  - Dual Use - Agricultural
- \* Data requested from Essex Council but currently not supplied



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Drawing Title  
Socio-economics, Recreation and Tourism Features

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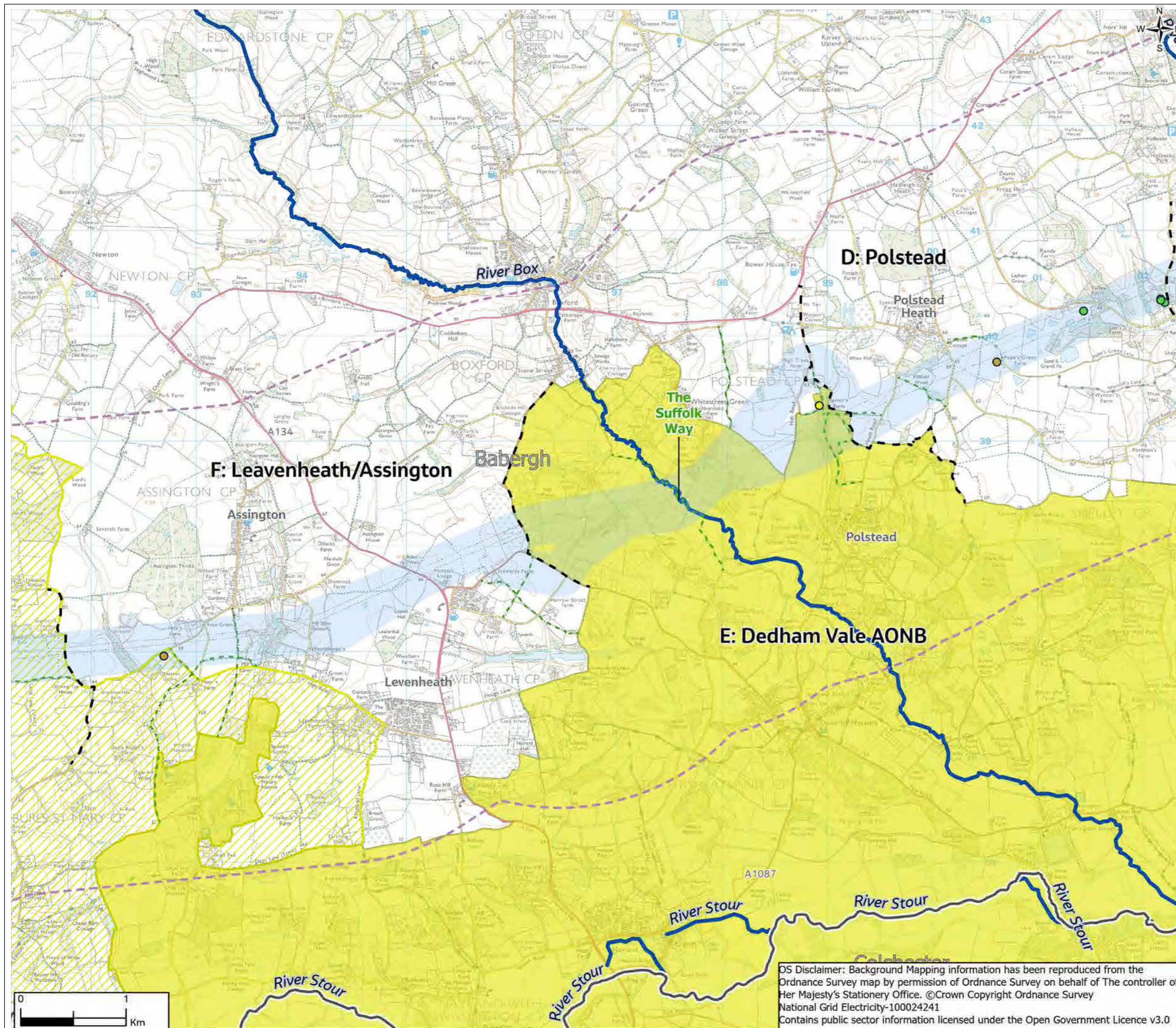
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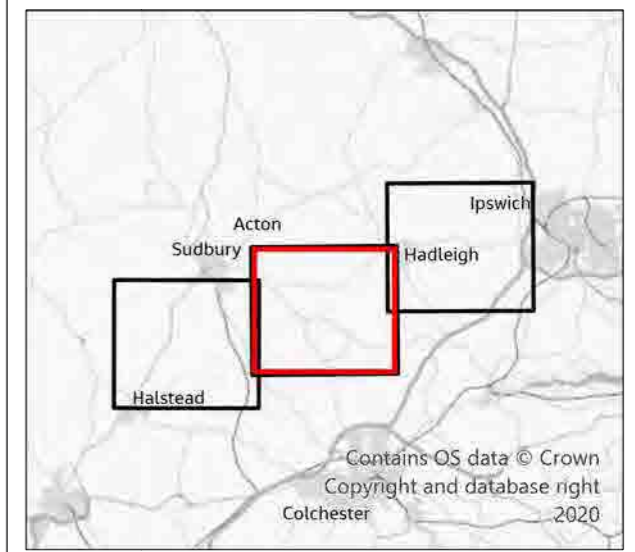
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**FIGURE 15.2**



- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Wider study area (2km)
  - Local authority districts
  - Main rivers
  - Suffolk public rights of way \*
  - Long distance paths/promoted walks
  - Area of Outstanding Natural Beauty (AONB)
  - Stour Valley Project Area
- Socio-economic features within the Scoping Boundary**
- Accommodation
  - Commercial
  - Commercial - Agricultural

\* Data requested from Essex Council but currently not supplied



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Drawing Title **Socio-economics, Recreation and Tourism Features**

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Drawing Status **Final**

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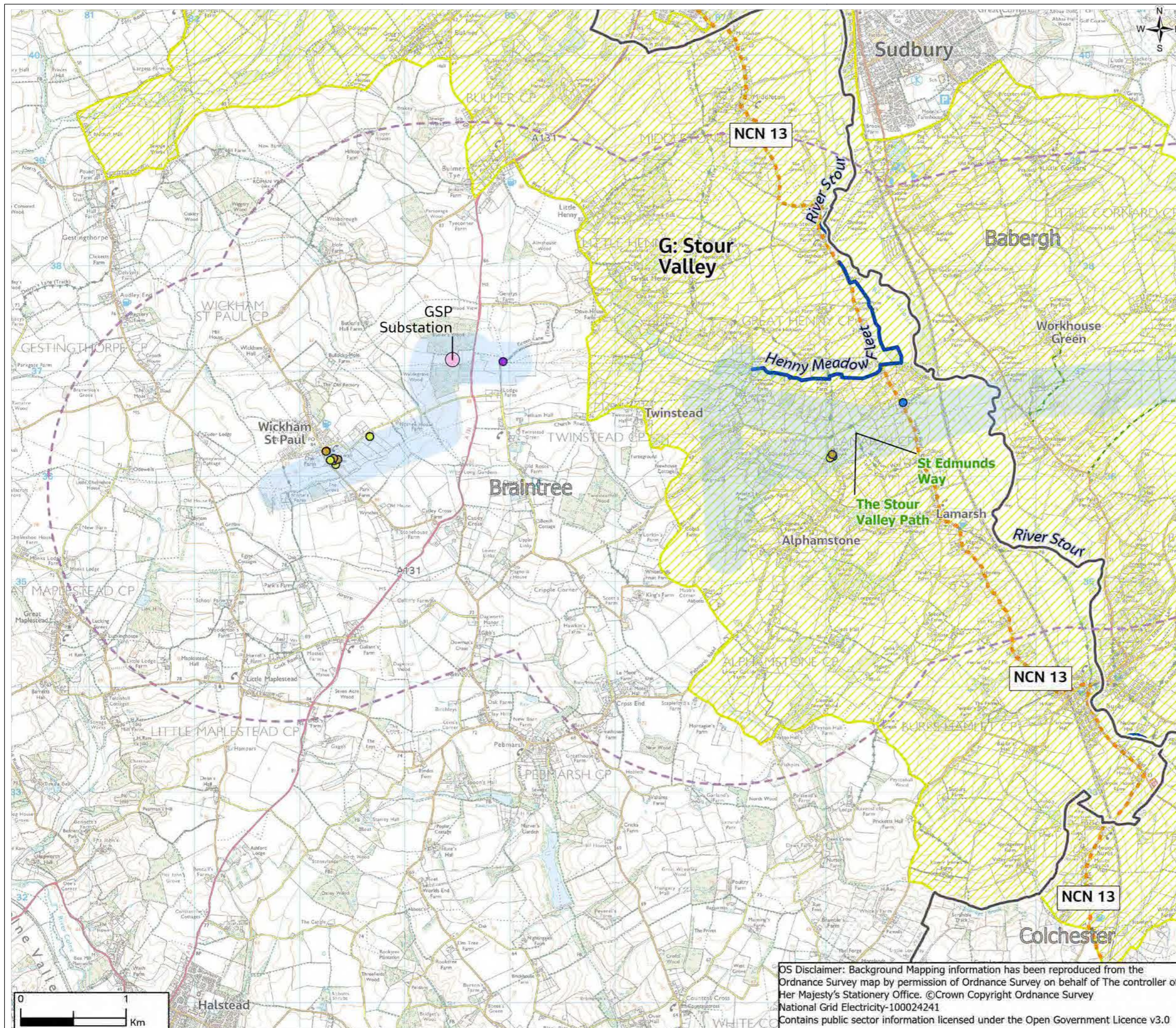
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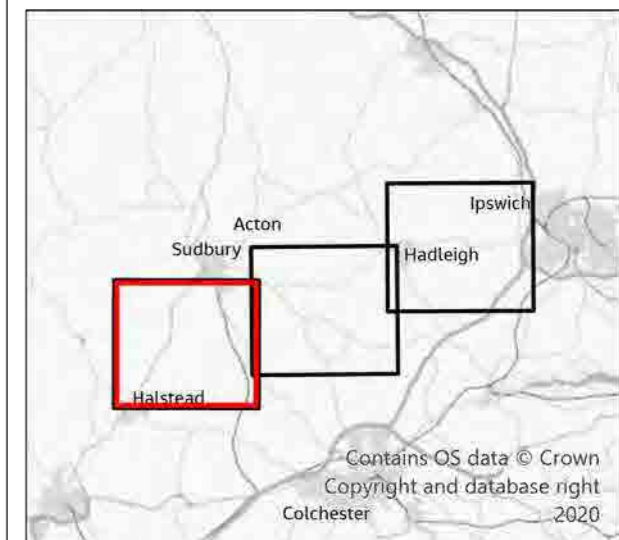
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**FIGURE 15.2**



- Legend**
- Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Wider study area (2km)
  - Local authority districts
  - Main rivers
  - National Cycle Network (NCN)
  - Suffolk public rights of way \*
  - Long distance paths/promoted walks
  - Stour Valley Project Area
- Socio-economic features within the Scoping Boundary**
- Accommodation
  - Commercial - Agricultural
  - Community
  - Education
- \* Data requested from Essex Council but currently not supplied



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Socio-economics, Recreation and Tourism Features

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Drawing Status  
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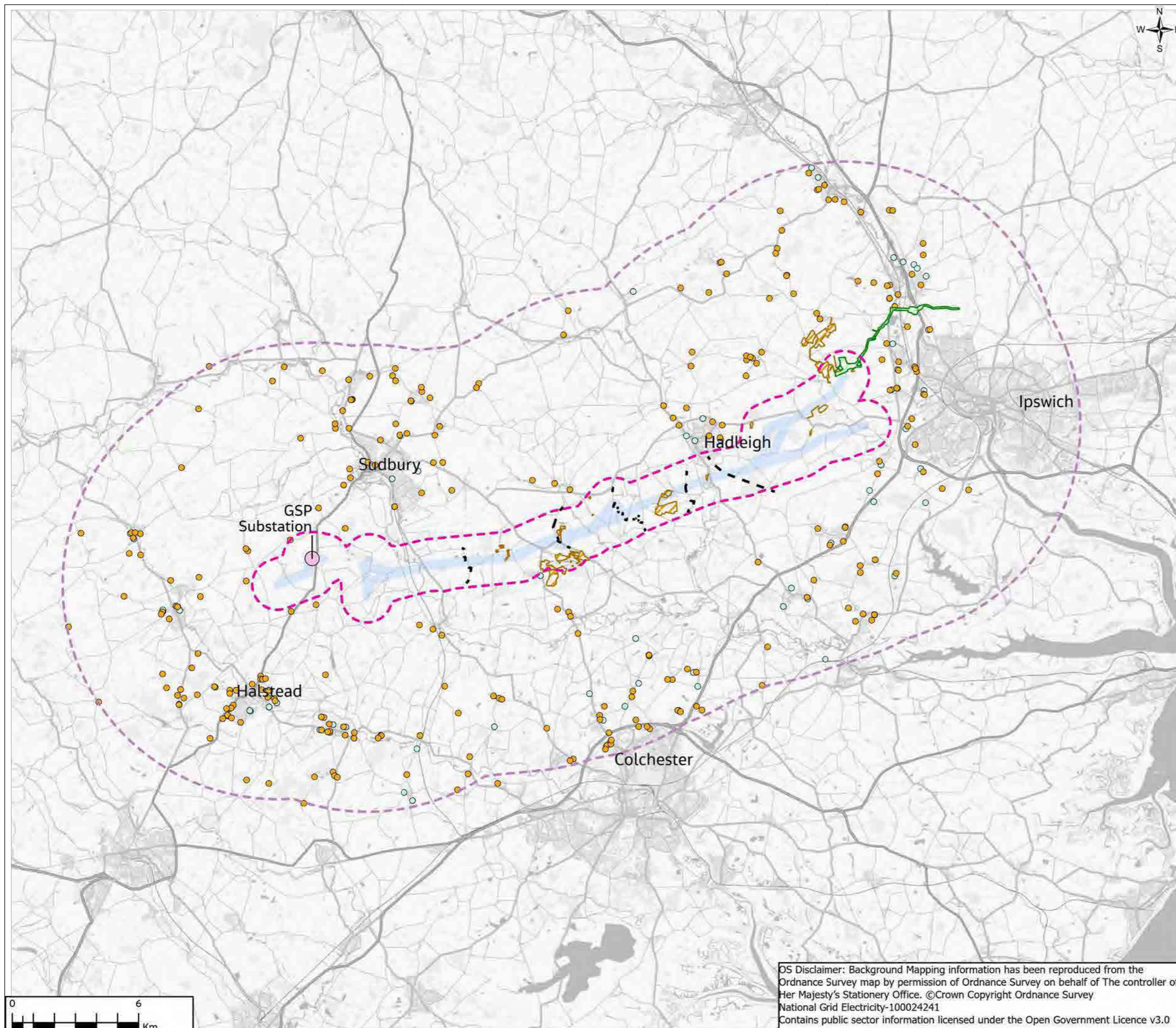
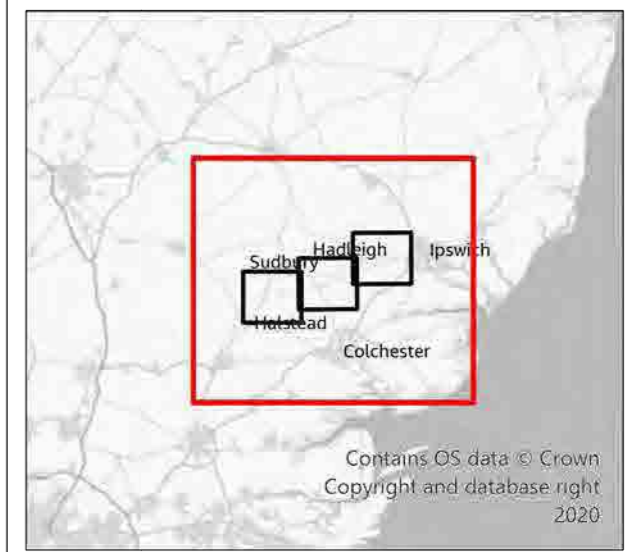
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**FIGURE 18.1**

- Legend**
- Section boundaries
  - Scoping Boundary
  - Proposed Grid Supply Point (GSP) Substation
  - Zone of Influence (1km)
  - Study area (10km)
- Applications within 1km of the Indicative Alignment**
- DCO applications
  - Planning applications
- Applications/Allocations between 1-10km of the Indicative Alignment**
- Planning applications
  - Development allocations



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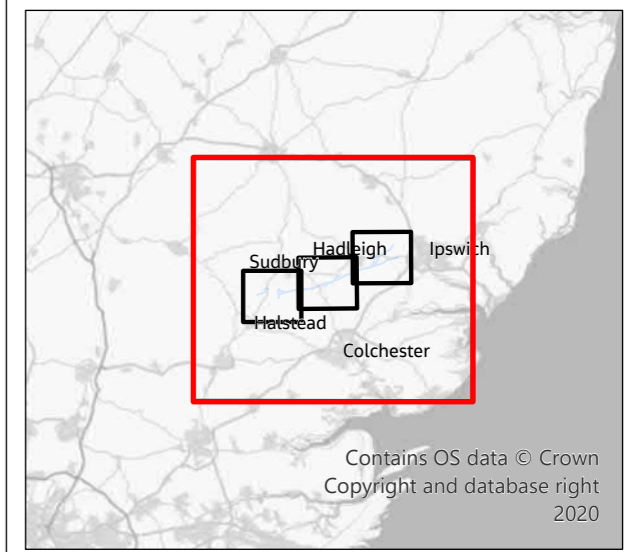
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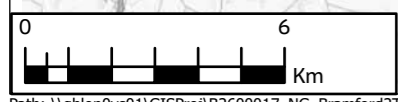
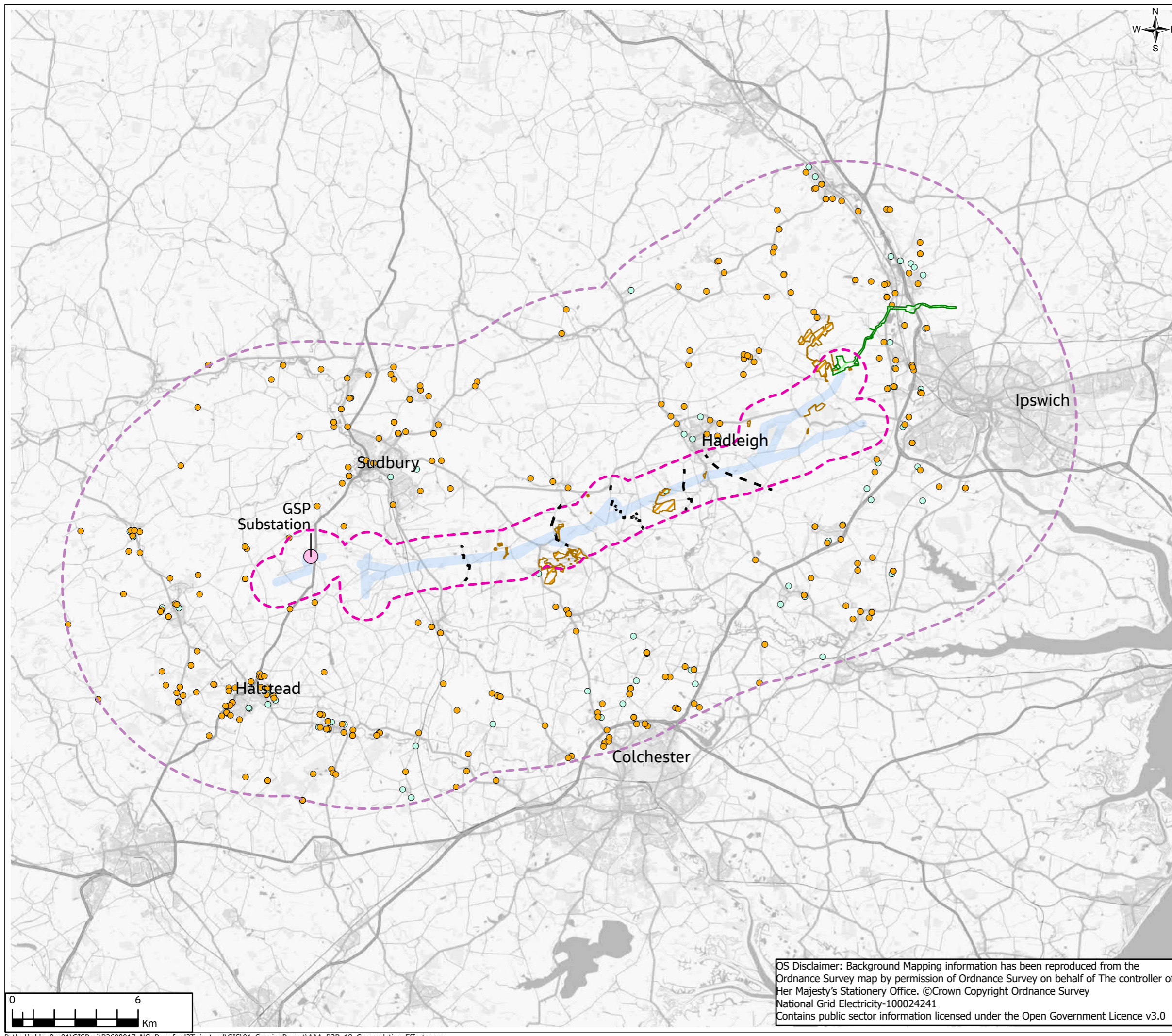
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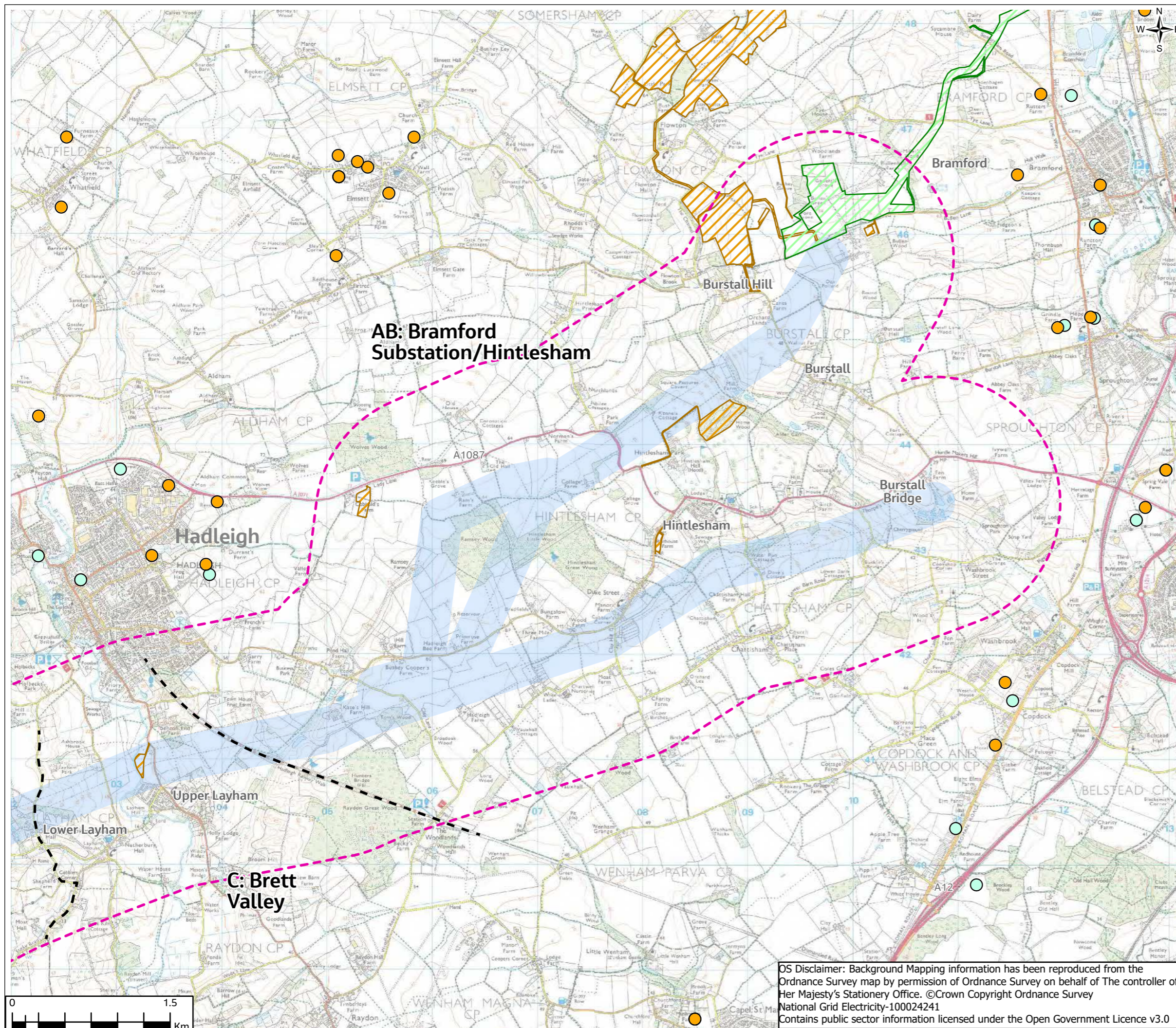
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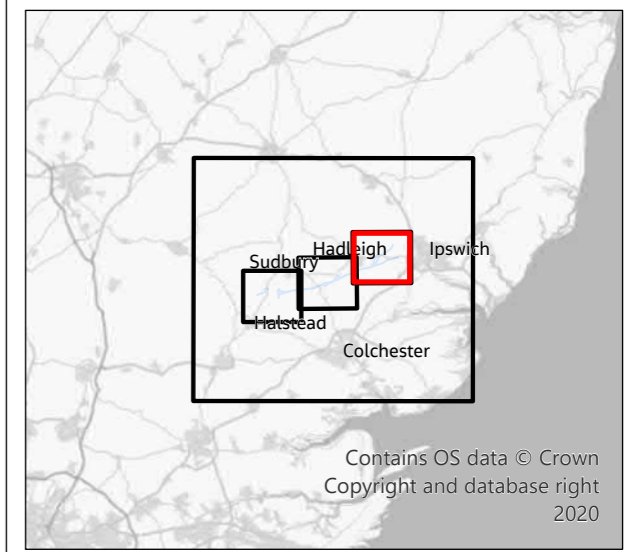


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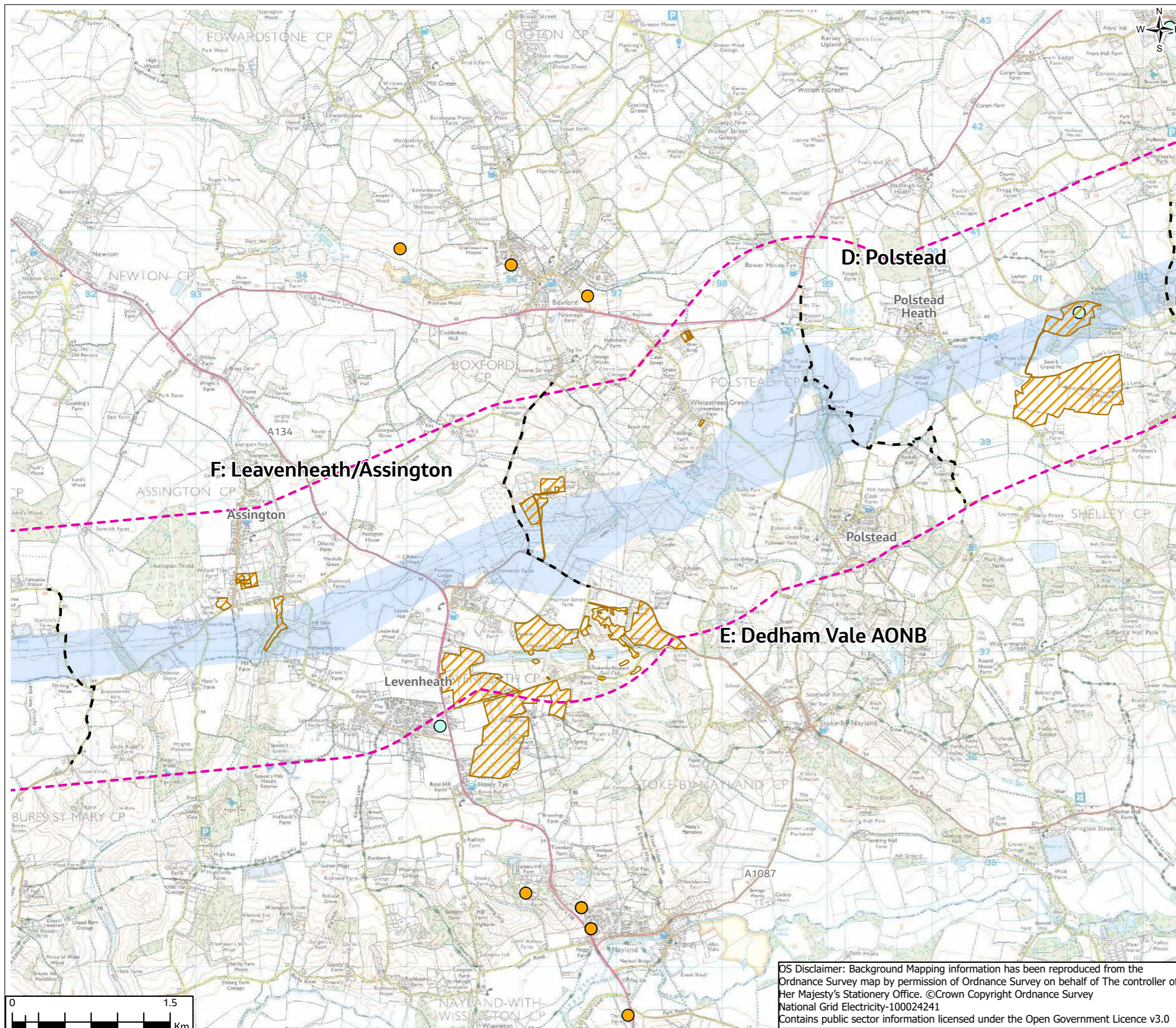
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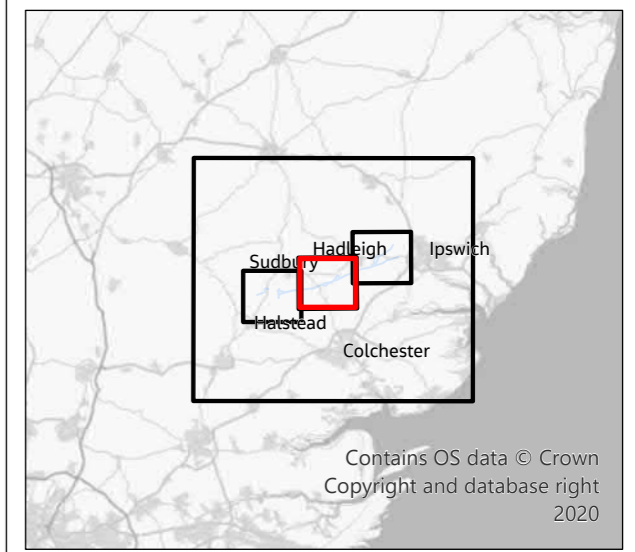
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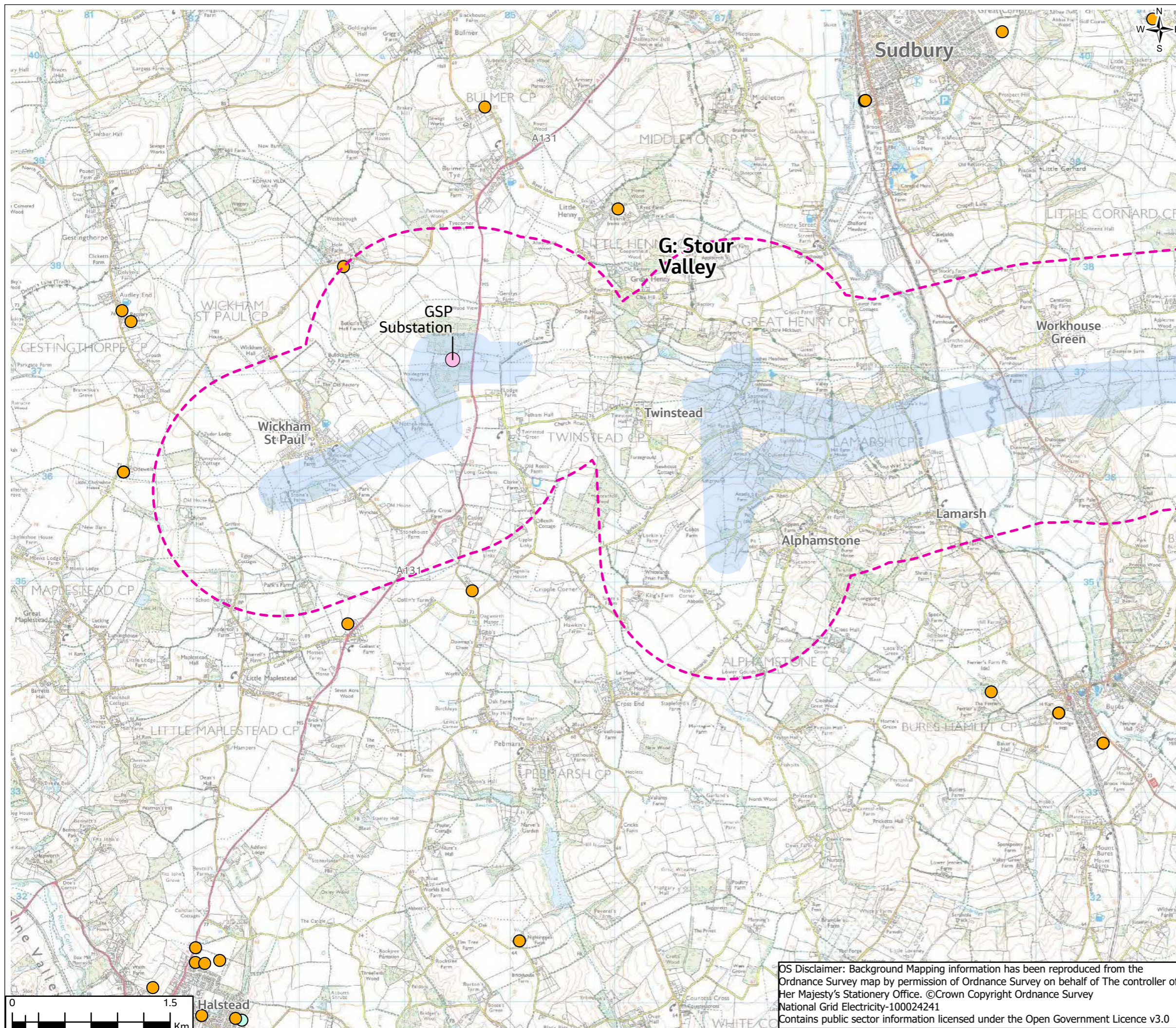
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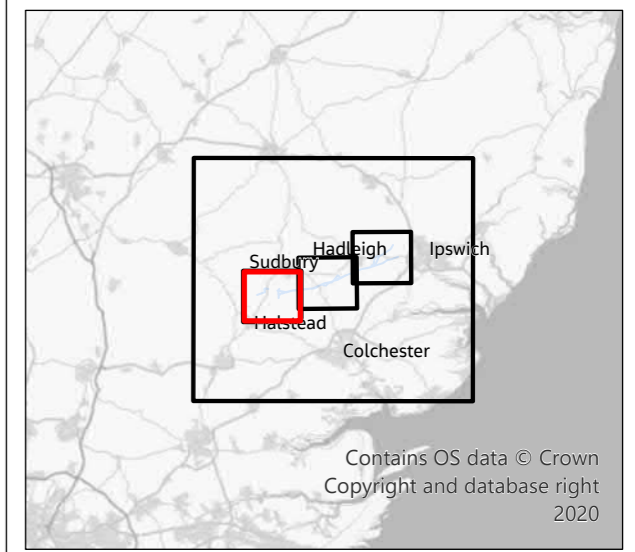


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Warwick Technology Park  
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CV34 6DA United Kingdom

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