

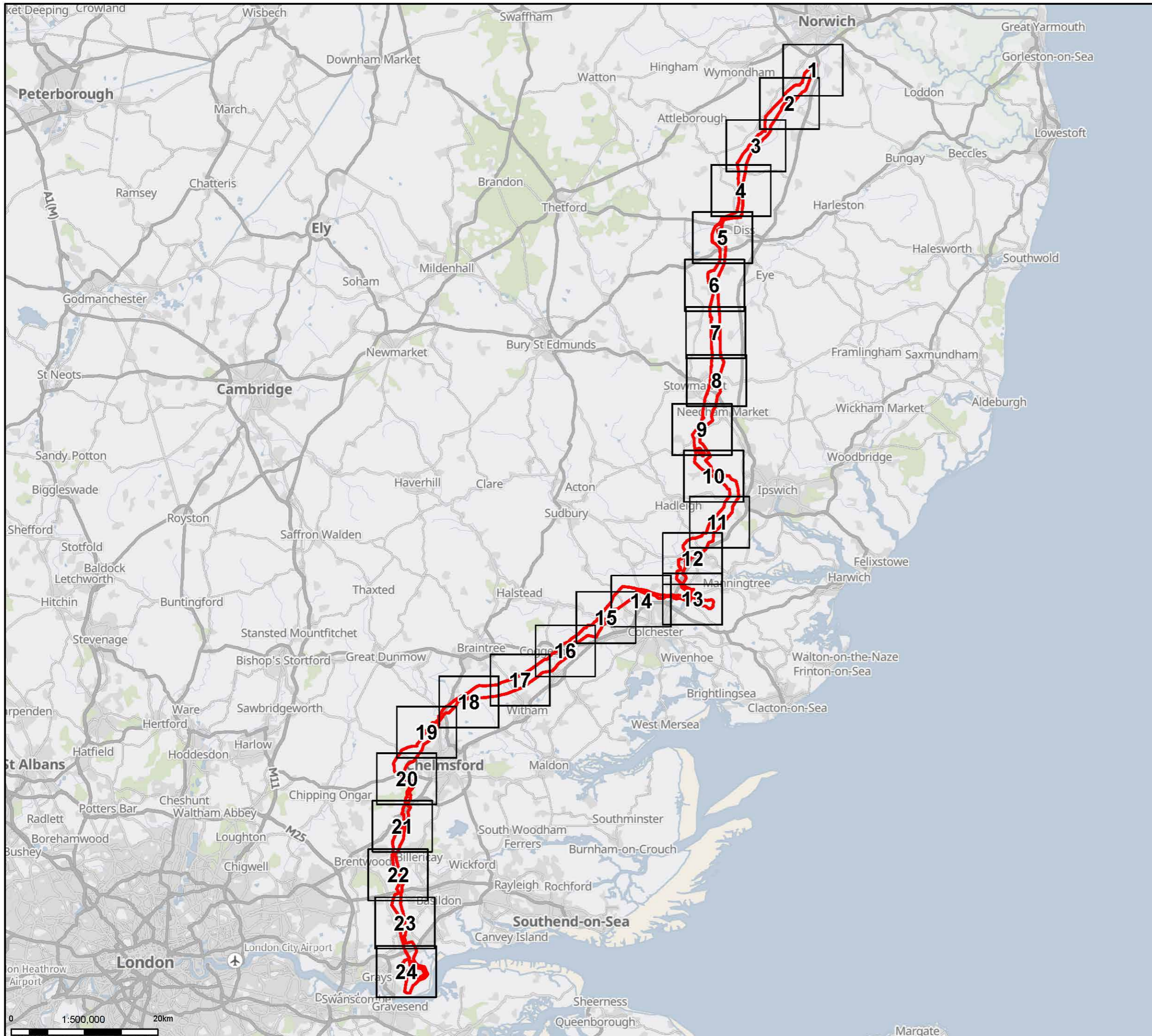
East Anglia Green Energy Enablement (GREEN)

EIA Scoping Report

Appendix A – Part 4 of 8
Figures 9.1 – 9.2 (Chapter 9)

November 2022

nationalgrid



Legend
 Scoping Report Corridor
 Boxes represent the extent of the following pages

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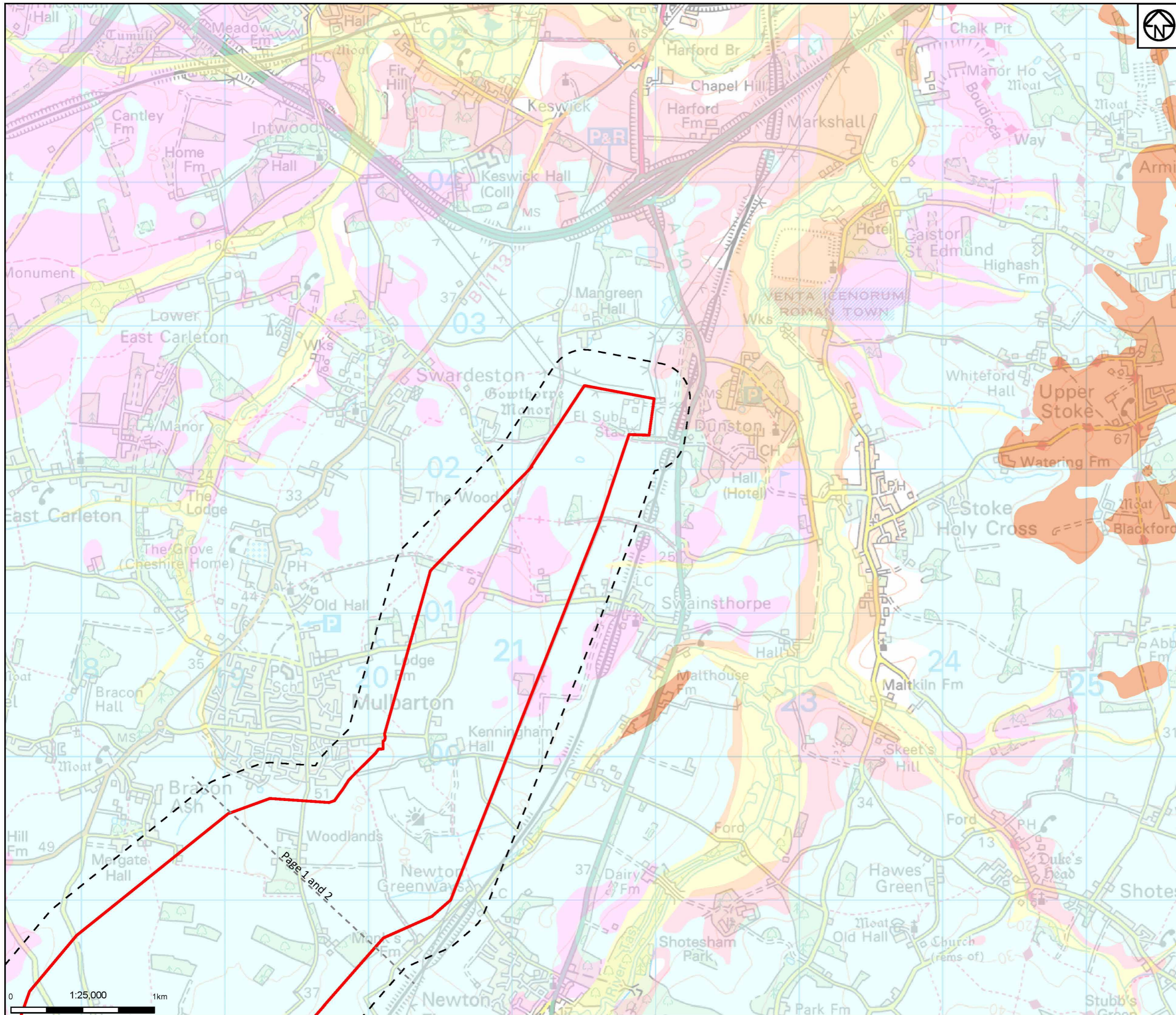
nationalgrid PROJECT: EAST ANGLIA GREEN ENERGY ENABLEMENT PROJECT

Title:
Figure 9.1 Superficial Geology Overview

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Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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Suitability Code:	A2	Project Number:	10051663

Suitability Description:
Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2
 Revision: P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - River Terrace Deposits
 - Sheringham Cliffs Formation
 - Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated)
 - Lowestoft Formation
 - Lowestoft Formation
 - Leet Hill

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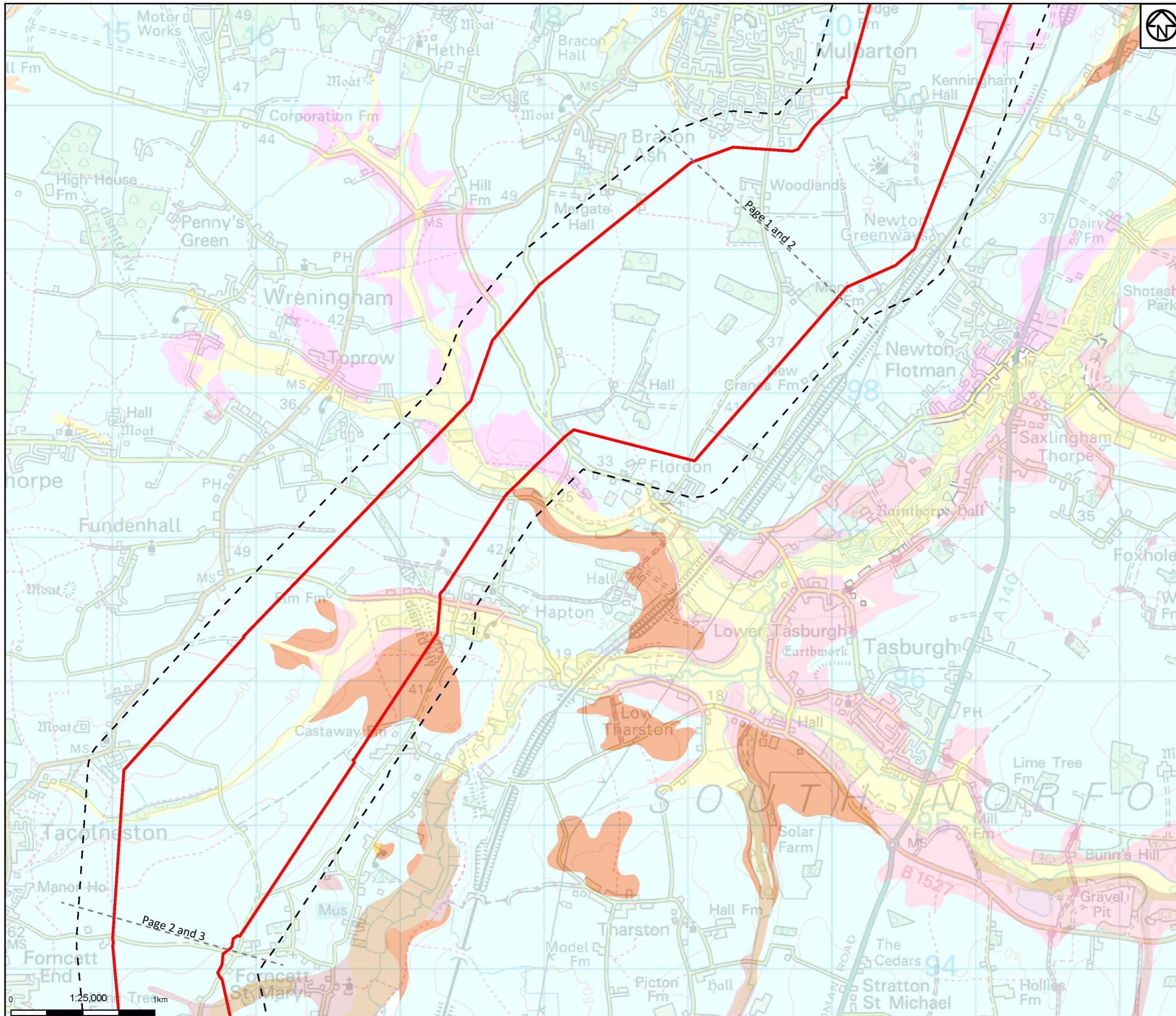
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Title:
**Figure 9.1
 Superficial Geology
 Page 1 of 24**

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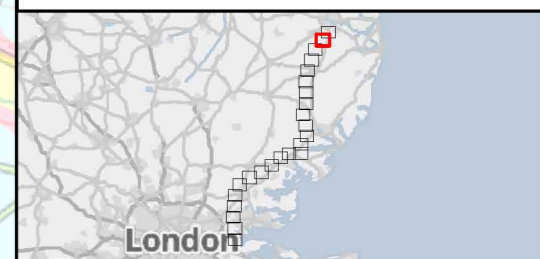
Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Head
- Peat
- River Terrace Deposits
- Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated)
- Lowestoft Formation
- Lowestoft Formation
- Leet Hill Sand and Gravel Member
- Lowestoft Formation
- Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated) - Clay and Silt

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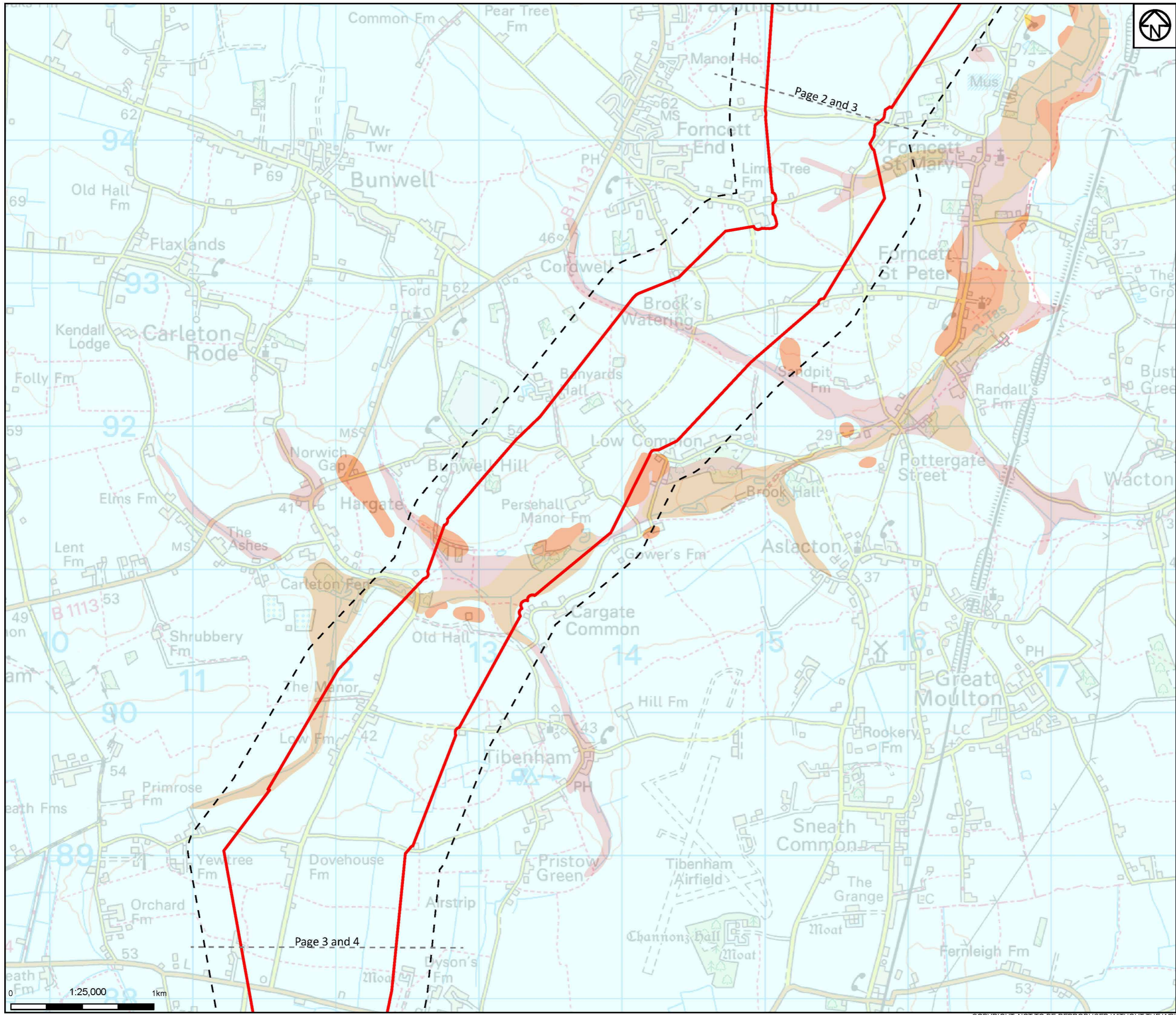
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Title: **Figure 9.1 Superficial Geology**
Page 2 of 24

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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Head
 - Peat
 - Lowestoft Formation
 - Lowestoft Formation
 - Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated) - Clay and Silt

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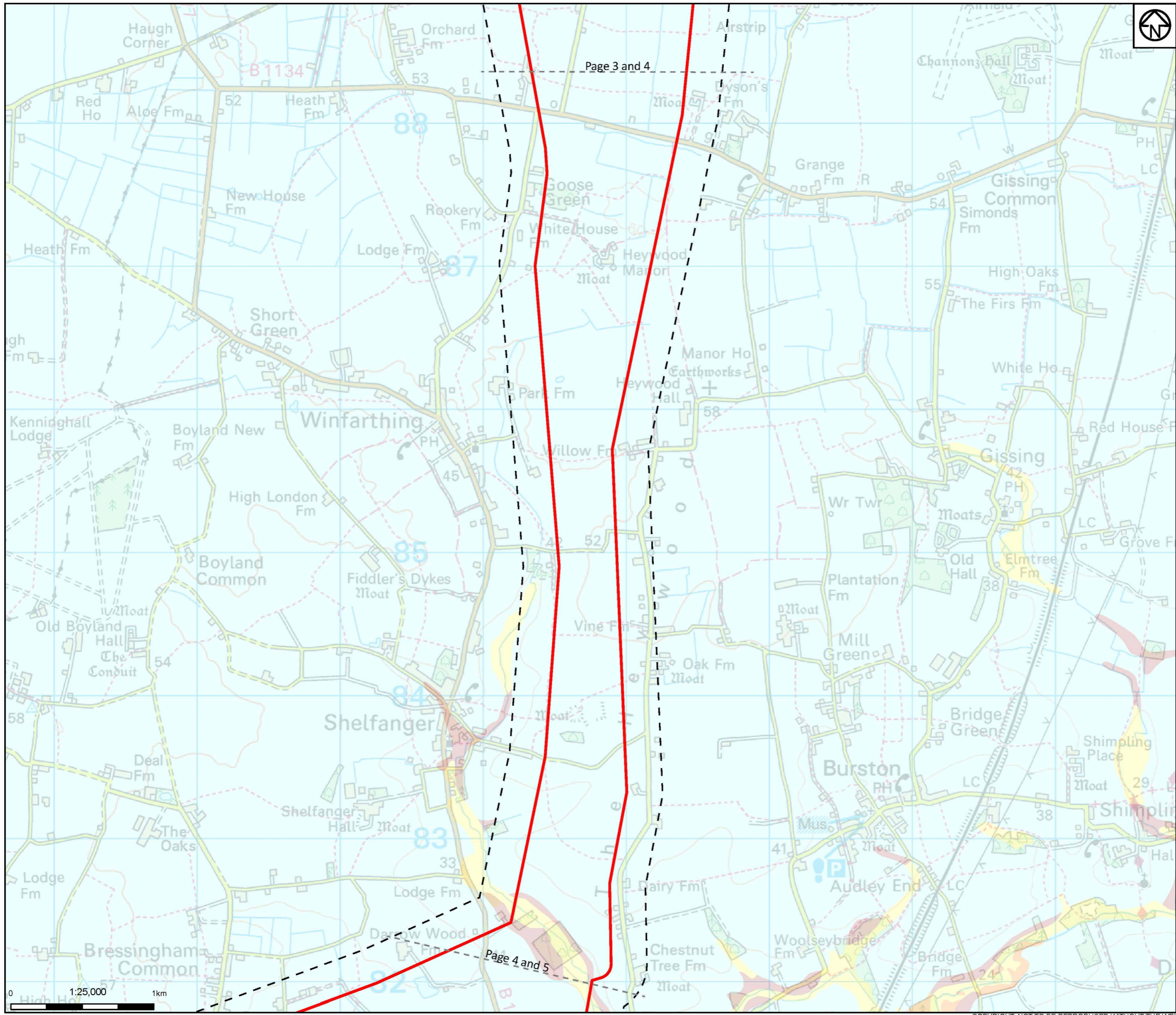
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**Figure 9.1
 Superficial Geology
 Page 3 of 24**

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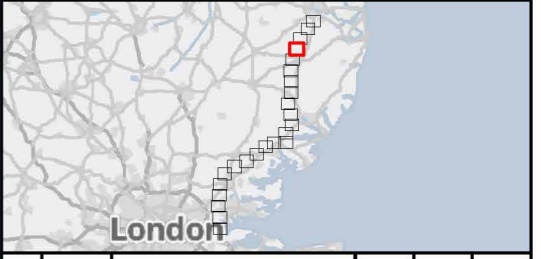
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Head
 - Peat
 - Lowestoft Formation

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Title:
**Figure 9.1
 Superficial Geology**
 Page 4 of 24

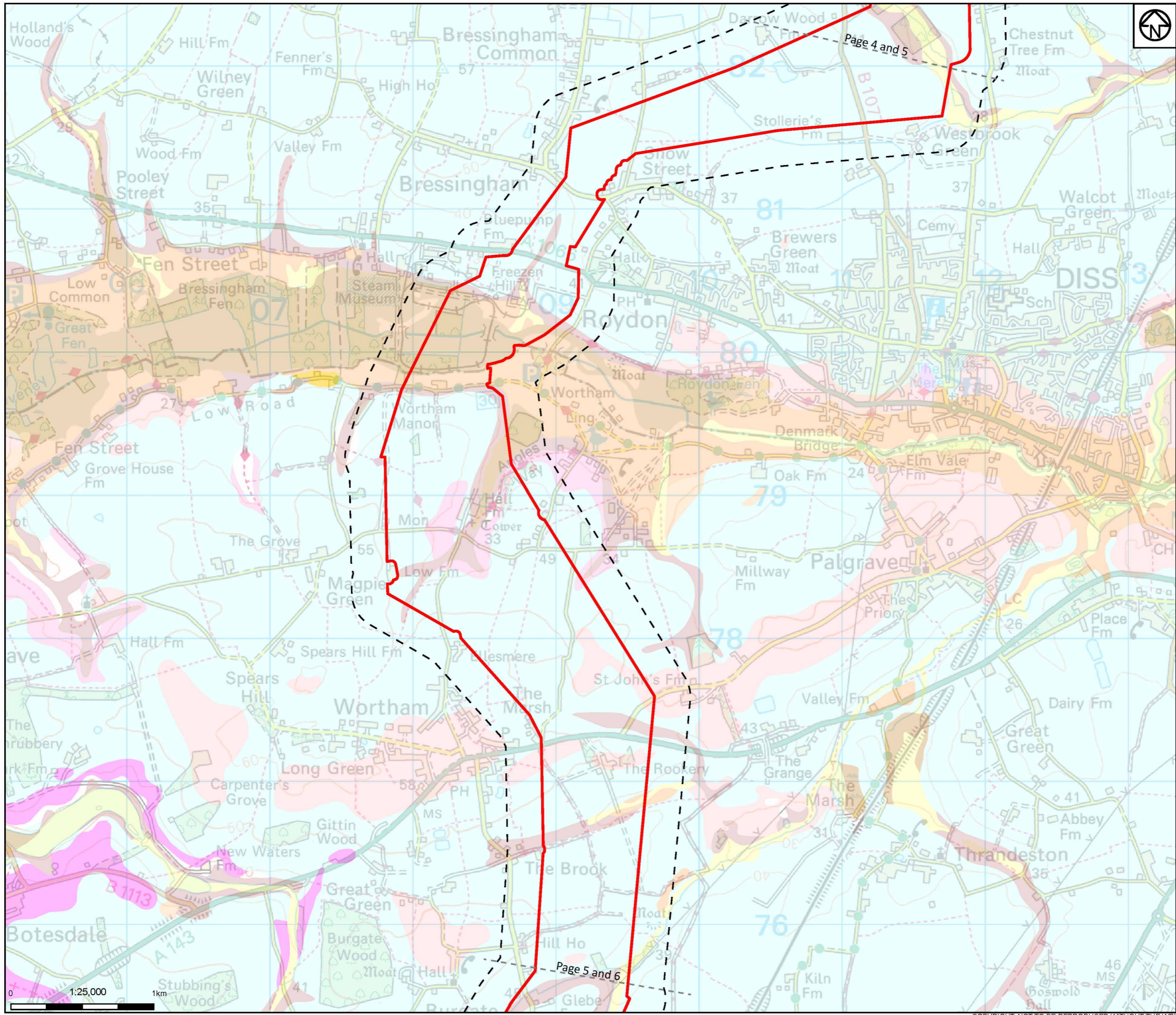
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Head
 - Peat
 - River Terrace Deposits
 - Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated)
 - Lowestoft Formation
 - Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated) - Clay and Silt
 - Ingham Sand and Gravel Formation
 - Croxton Sand and Gravel Member
 - Kesgrave Catchment Subgroup
 - Lodge Farm Silt and Clay Member

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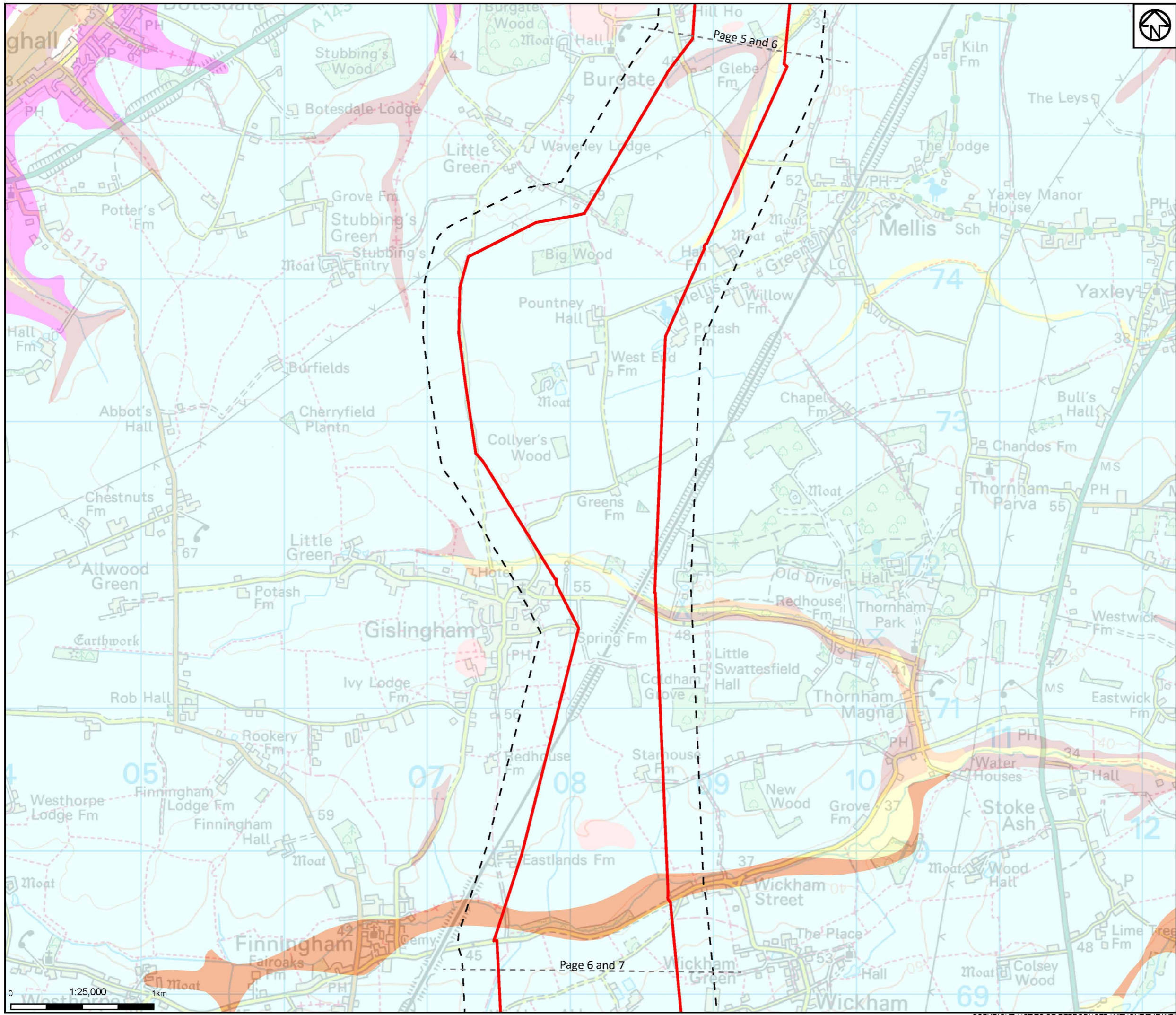
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Head
 - Peat
 - River Terrace Deposits
 - Lowestoft Formation
 - Lowestoft Formation
 - Croxton Sand and Gravel Member
 - Kesgrave Catchment Subgroup

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**Figure 9.1
 Superficial Geology**
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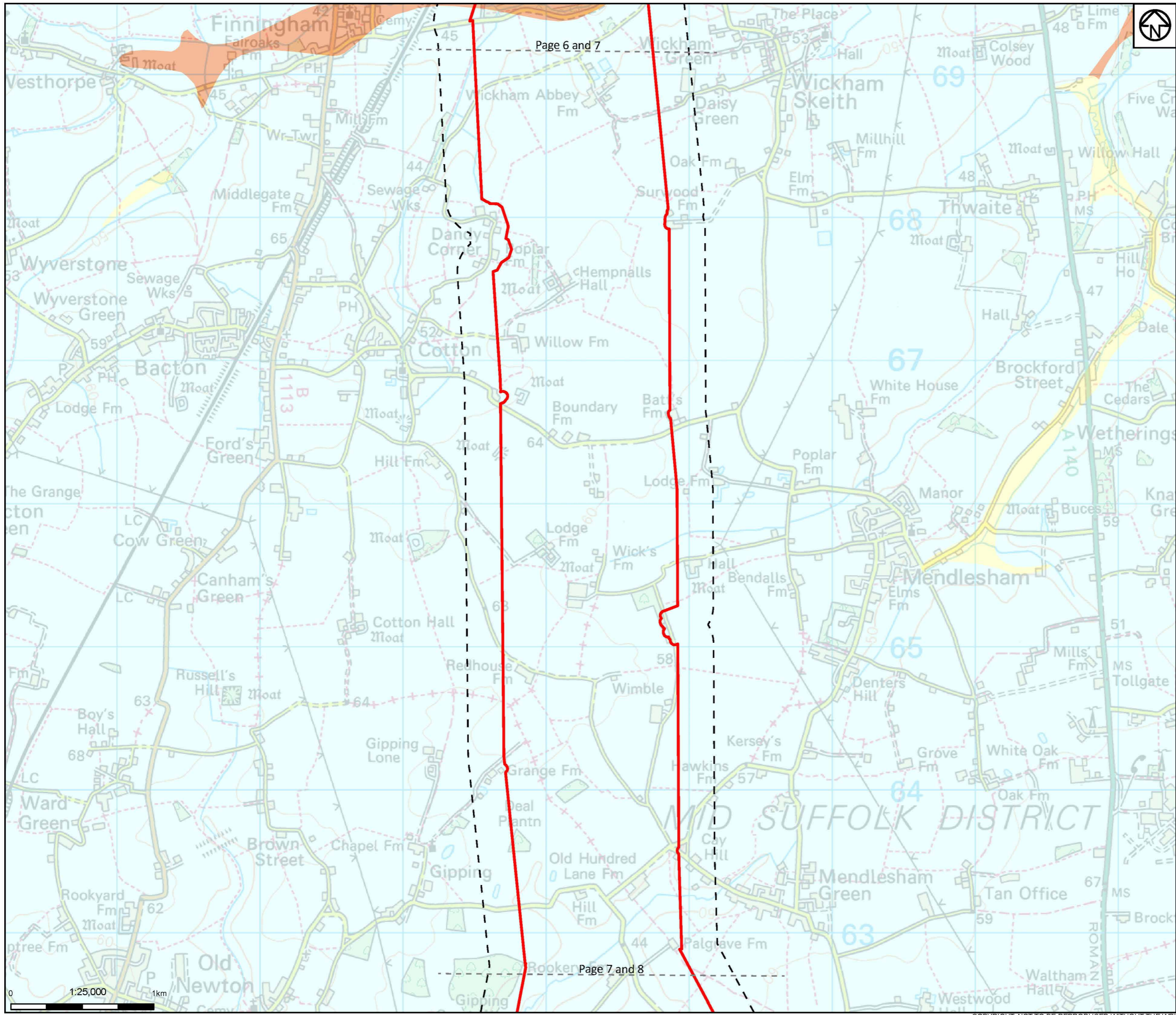
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Lowestoft Formation
- Lowestoft Formation

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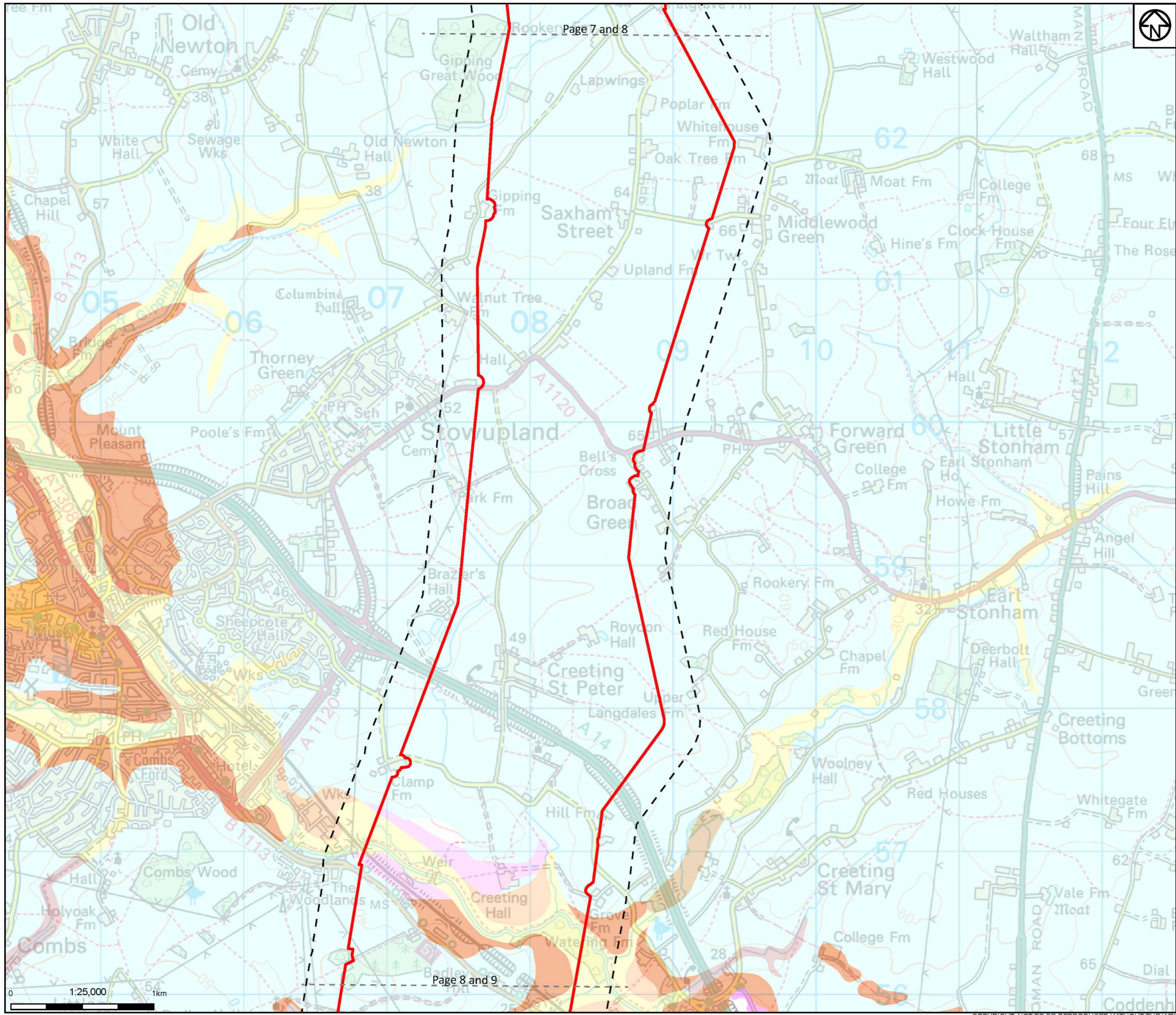
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 Superficial Geology**
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Glaciofluvial Deposits, Midpleistocene
- Head
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Lowestoft Formation

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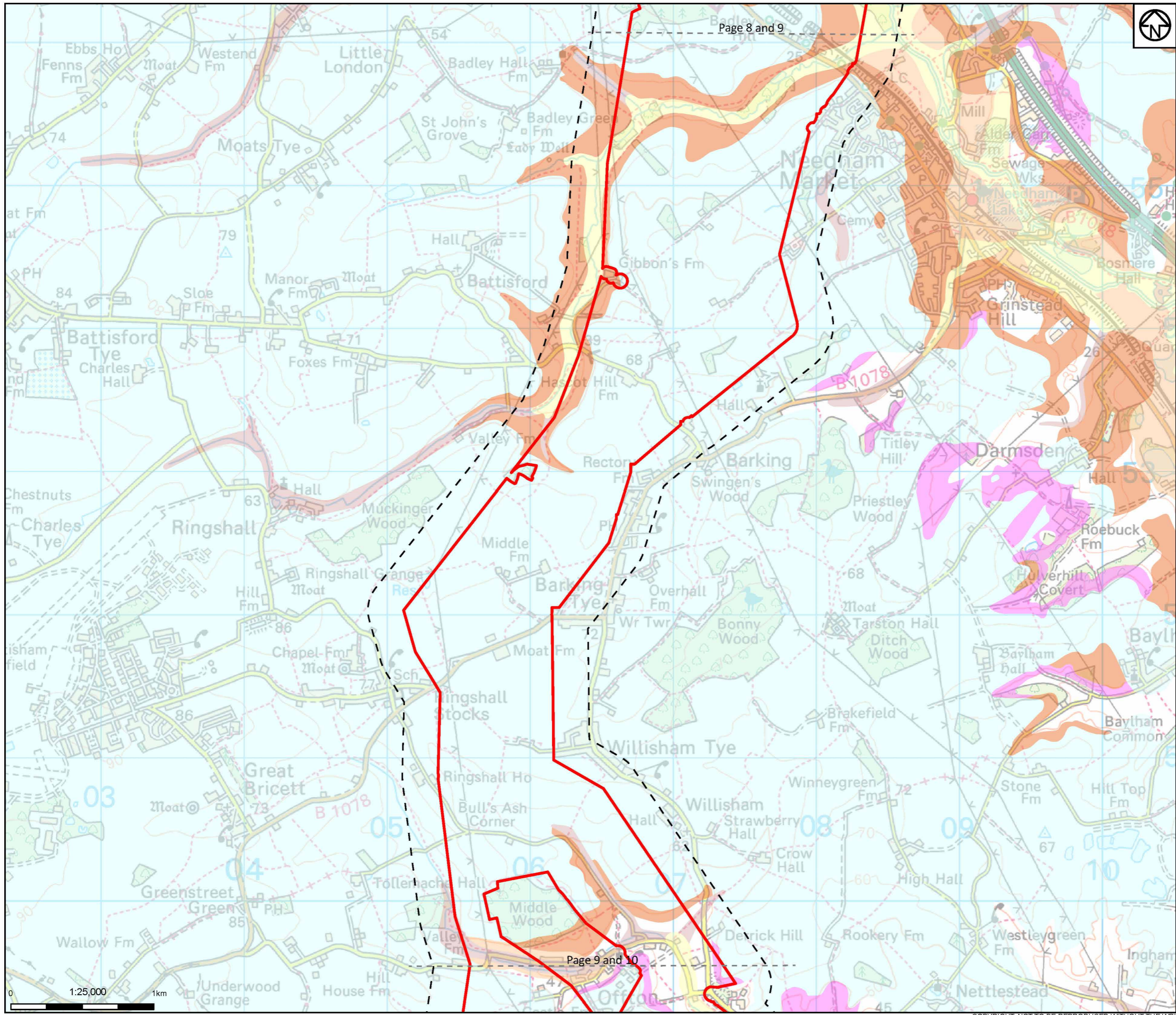
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Title: **Figure 9.1 Superficial Geology**
Page 8 of 24

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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Glaciolacustrine Deposits, Middlepleistocene
 - Head
 - River Terrace Deposits
 - Lowestoft Formation
 - Lowestoft Formation
 - Kesgrave Catchment Subgroup

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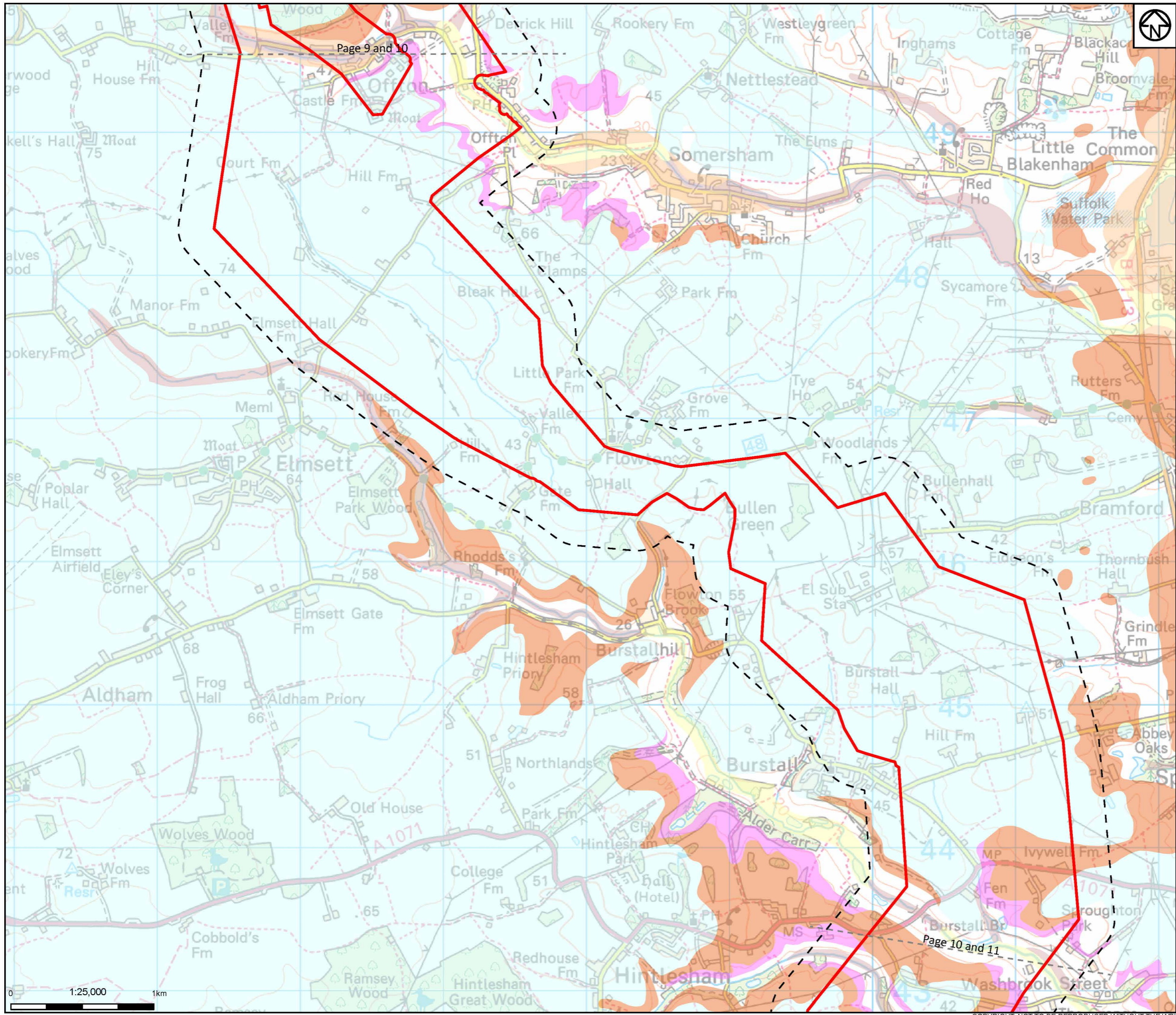
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Title:
**Figure 9.1
 Superficial Geology**
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 Revision:
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Page 9 and 10

Page 10 and 11



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Head
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup

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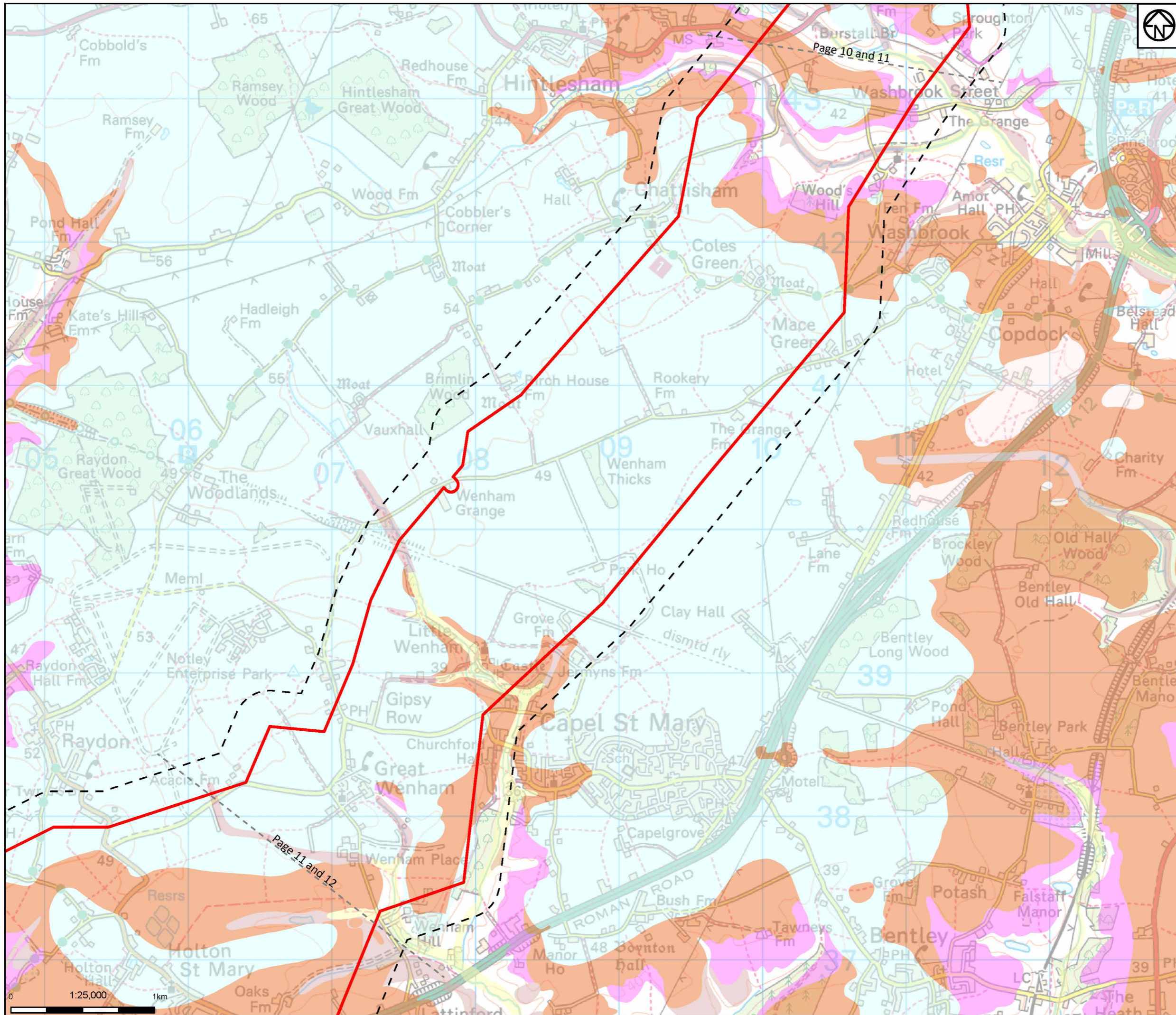
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Title: **Figure 9.1 Superficial Geology**
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Glaciolacustrine Deposits, Middlepleistocene
 - Head
 - Peat
 - Lowestoft Formation
 - Lowestoft Formation
 - Kesgrave Catchment Subgroup

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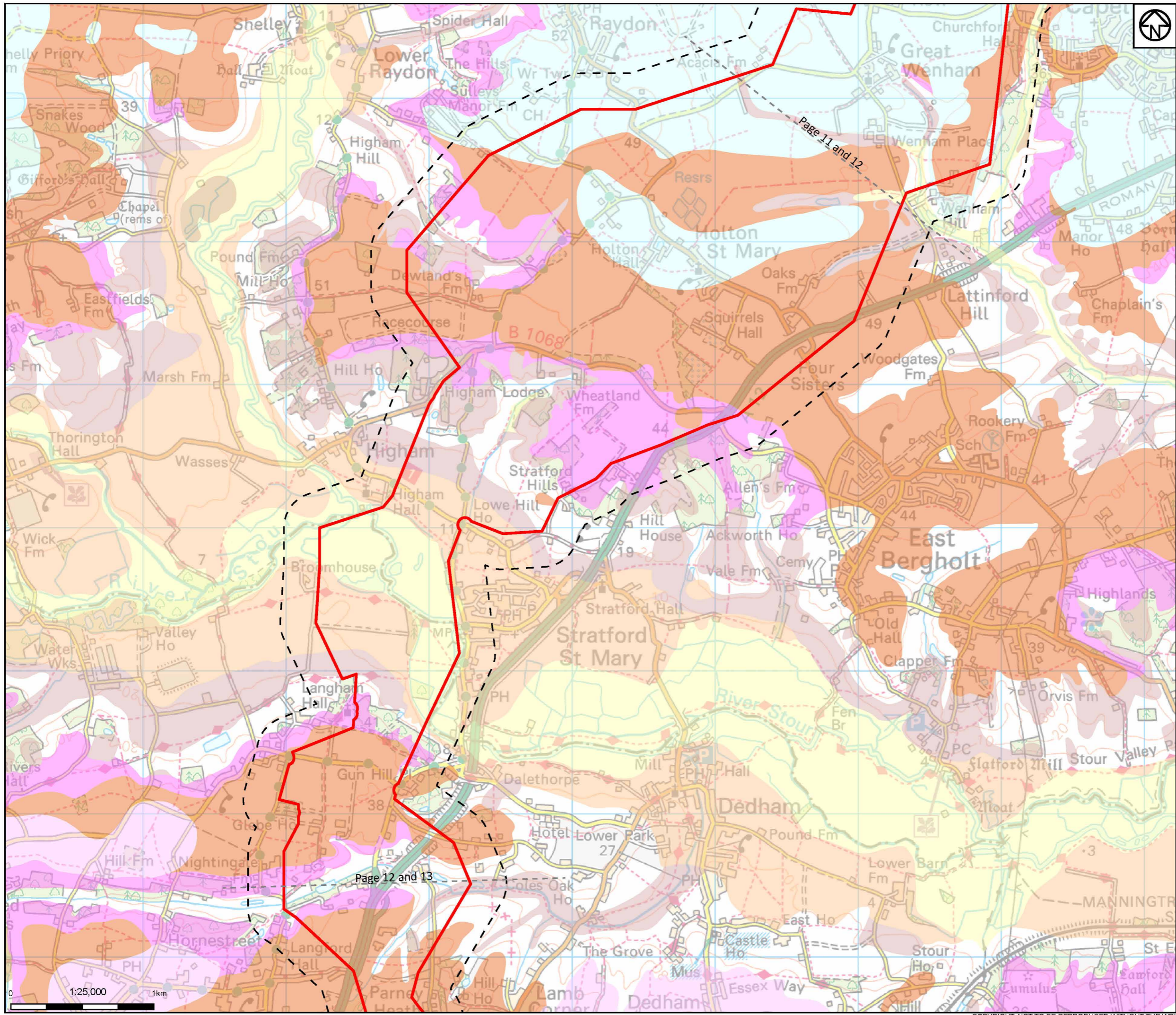
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Title:
**Figure 9.1
 Superficial Geology**
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Head
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Intertidal Deposits (Undifferentiated)
- Cover sand

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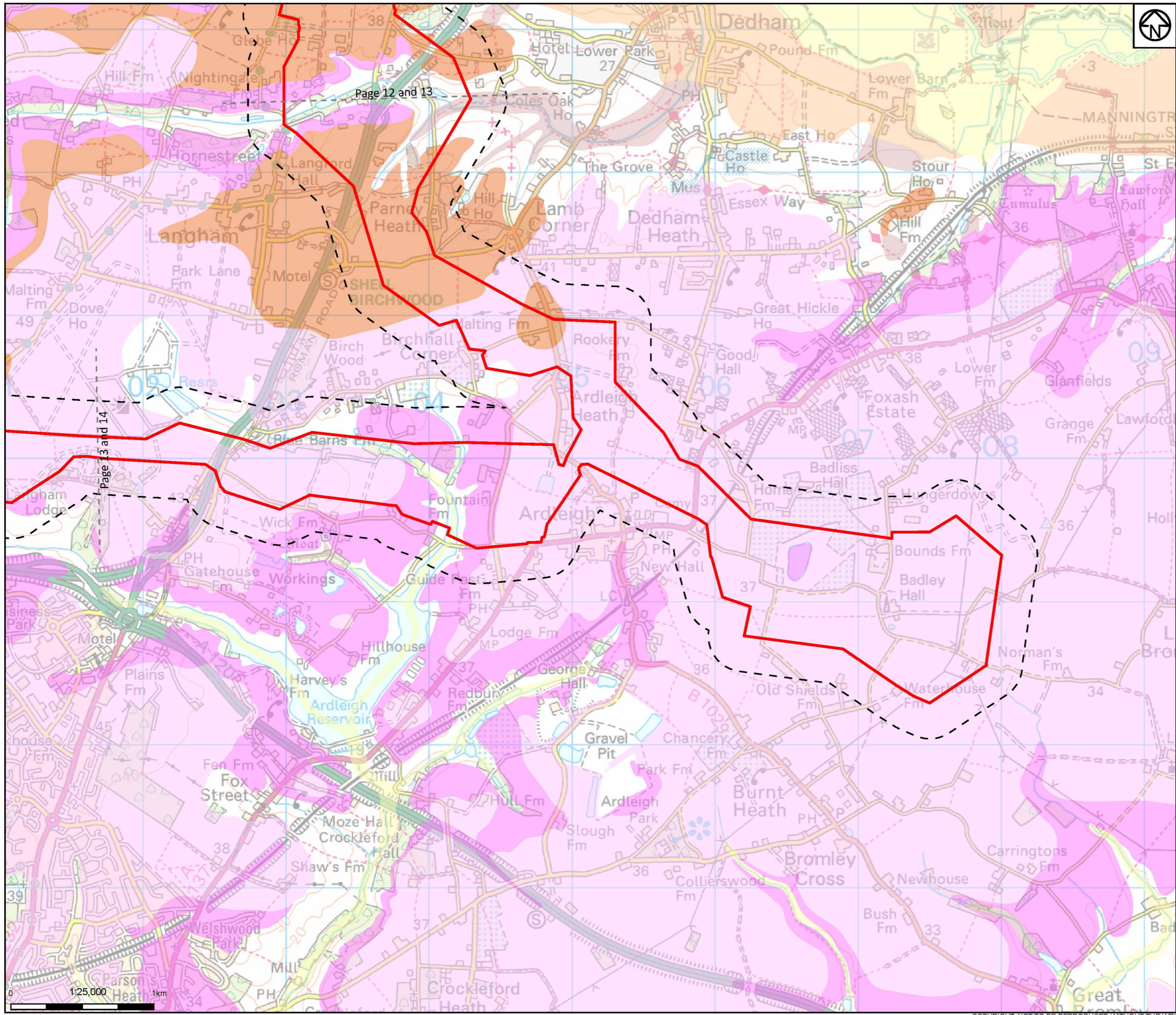
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
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- Peat
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- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Intertidal Deposits (Undifferentiated)
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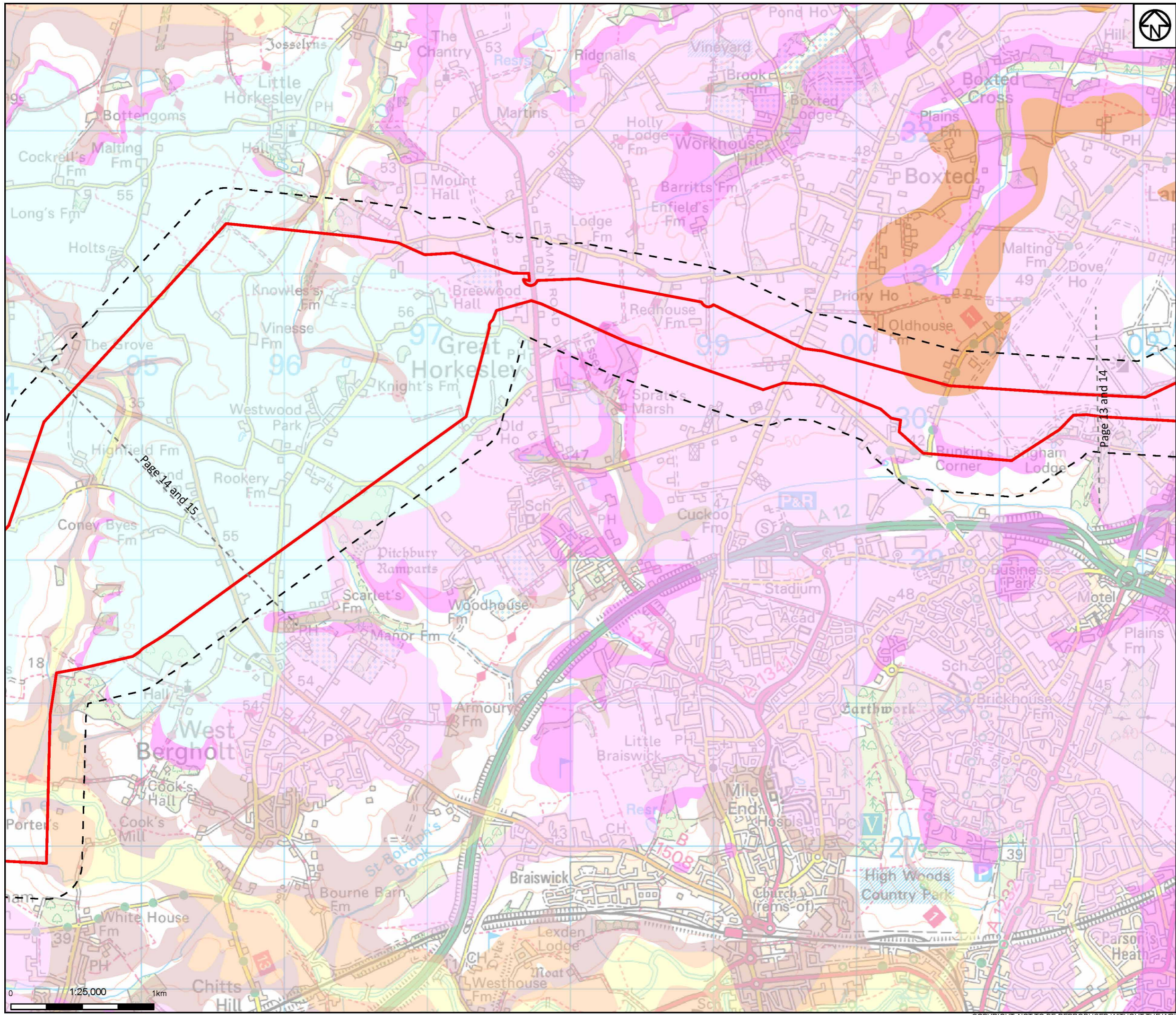
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Legend

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Geology

- Alluvium
- Head
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
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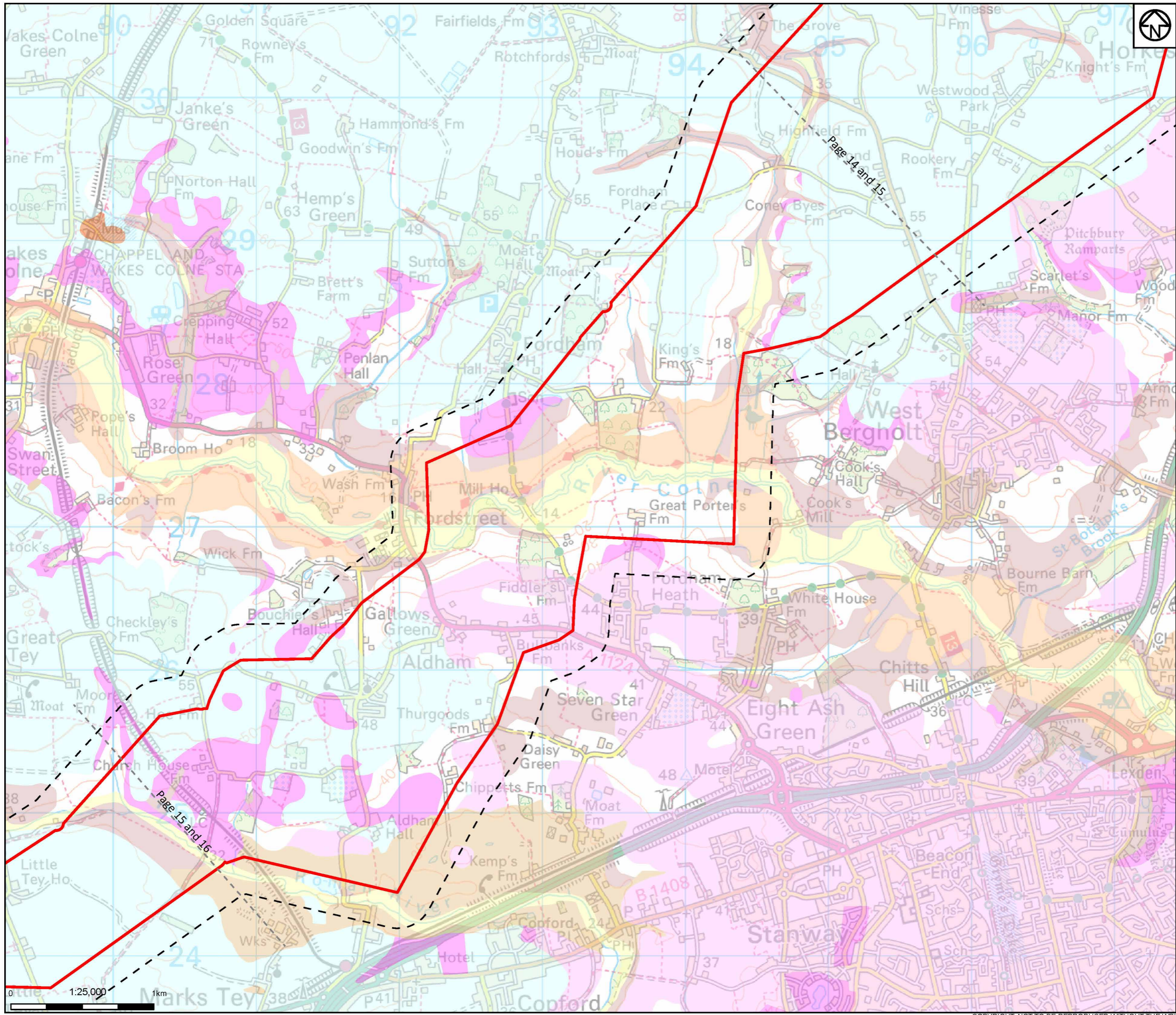
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- Geology**
- Alluvium
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 - River Terrace Deposits
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 - Lowestoft Formation
 - Kesgrave Catchment Subgroup
 - Cover sand
 - Interglacial Lacustrine Deposits

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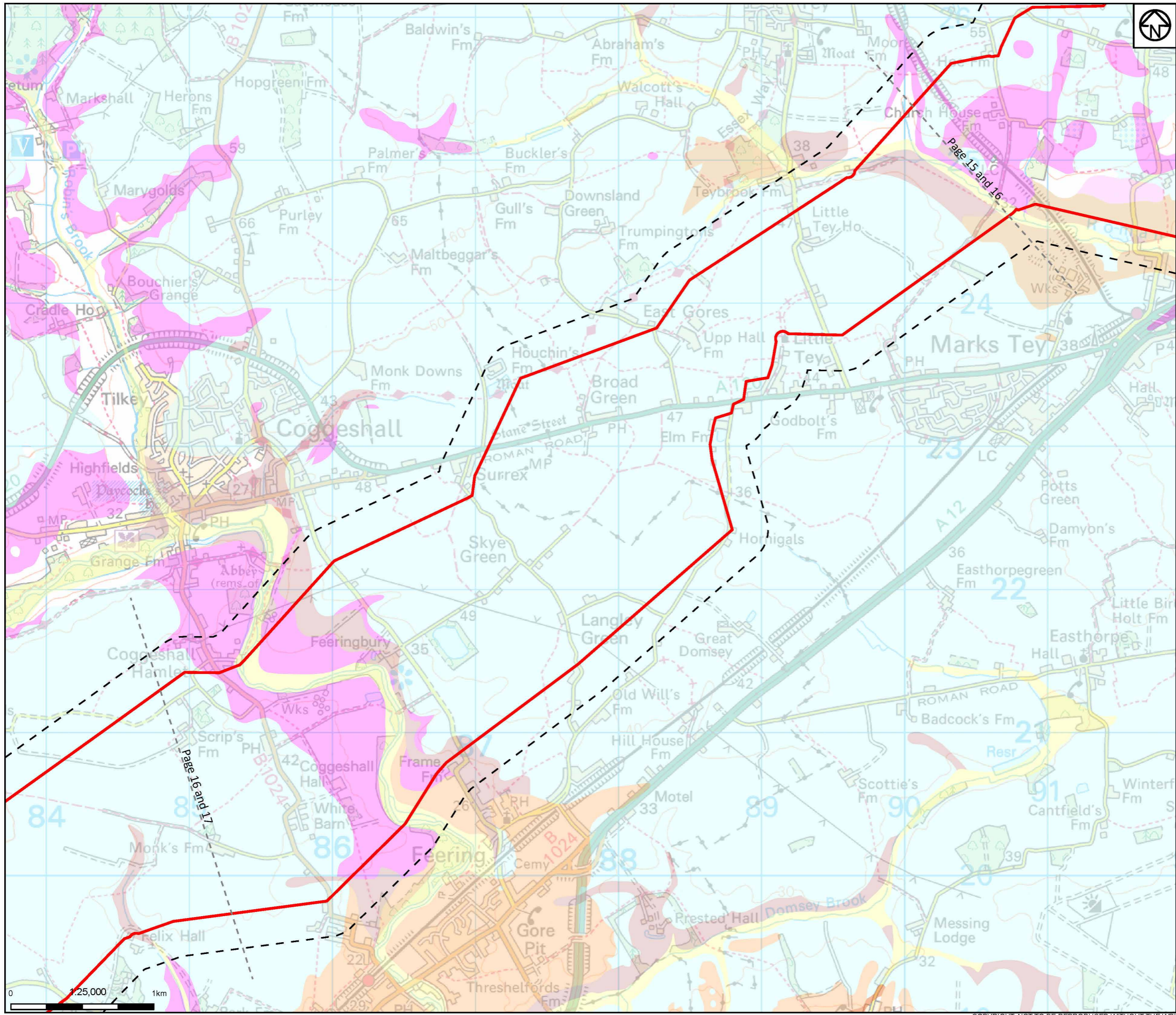
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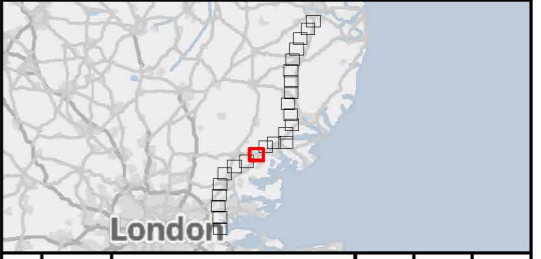
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Geology

- Alluvium
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- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Cover sand
- Interglacial Lacustrine Deposits

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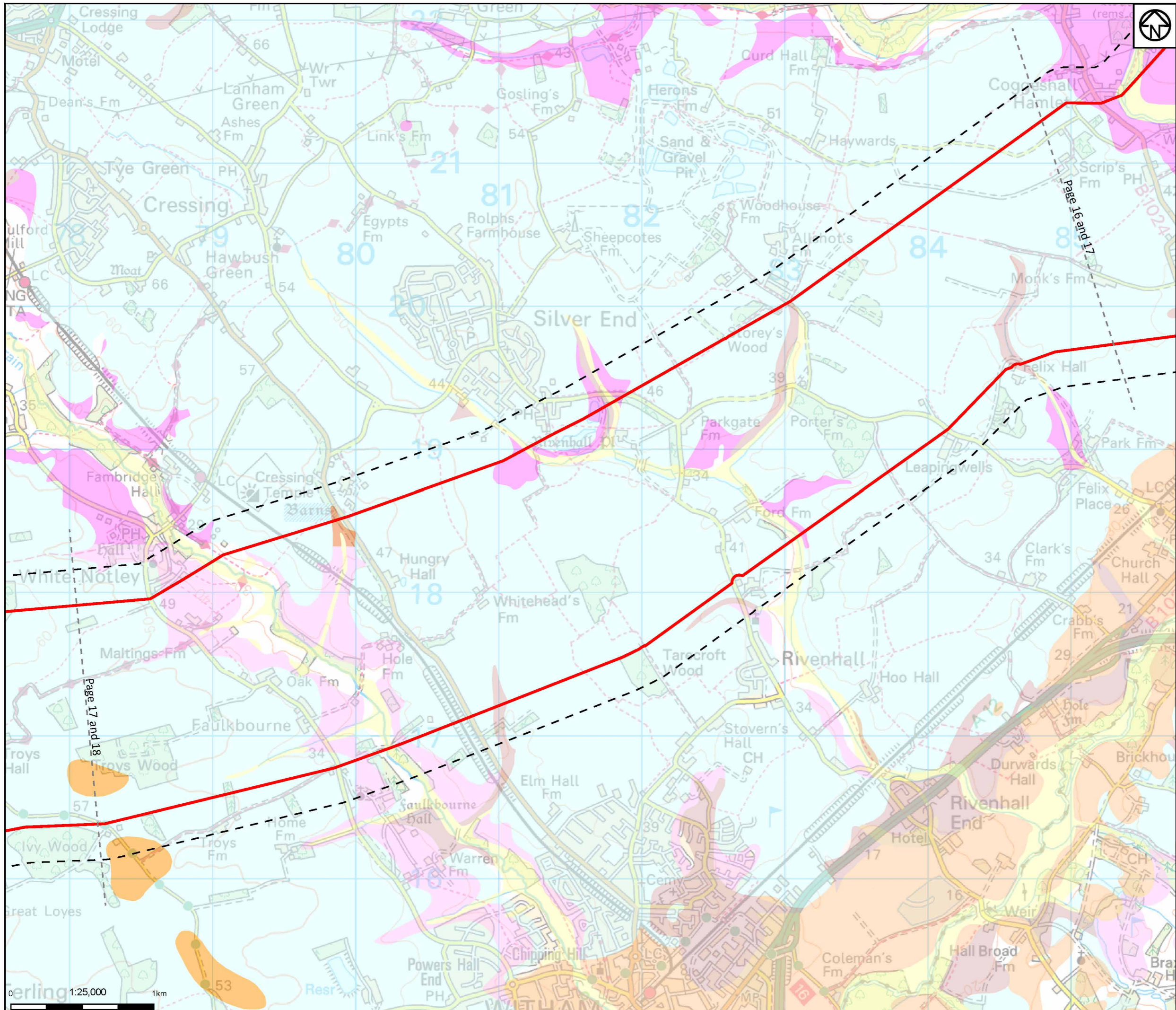
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**Figure 9.1
 Superficial Geology**
 Page 16 of 24

Designed	N.Caton	Date	02 NOV 22
Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
Scale:	1:25,000	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	A2	Project Number:	10051663

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2

Revision:
 P01



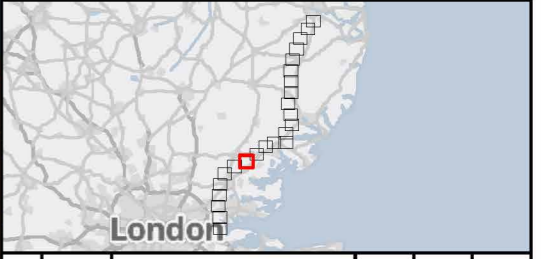
Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Glaciofluvial Deposits, Middleistocene
- Glaciolacustrine Deposits, Middleistocene
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Tufa
- Interglacial Lacustrine Deposits
- Brickearth

Notes: Superficial Geology:
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01	02/11/22	INITIAL ISSUE	KF	AF	KB

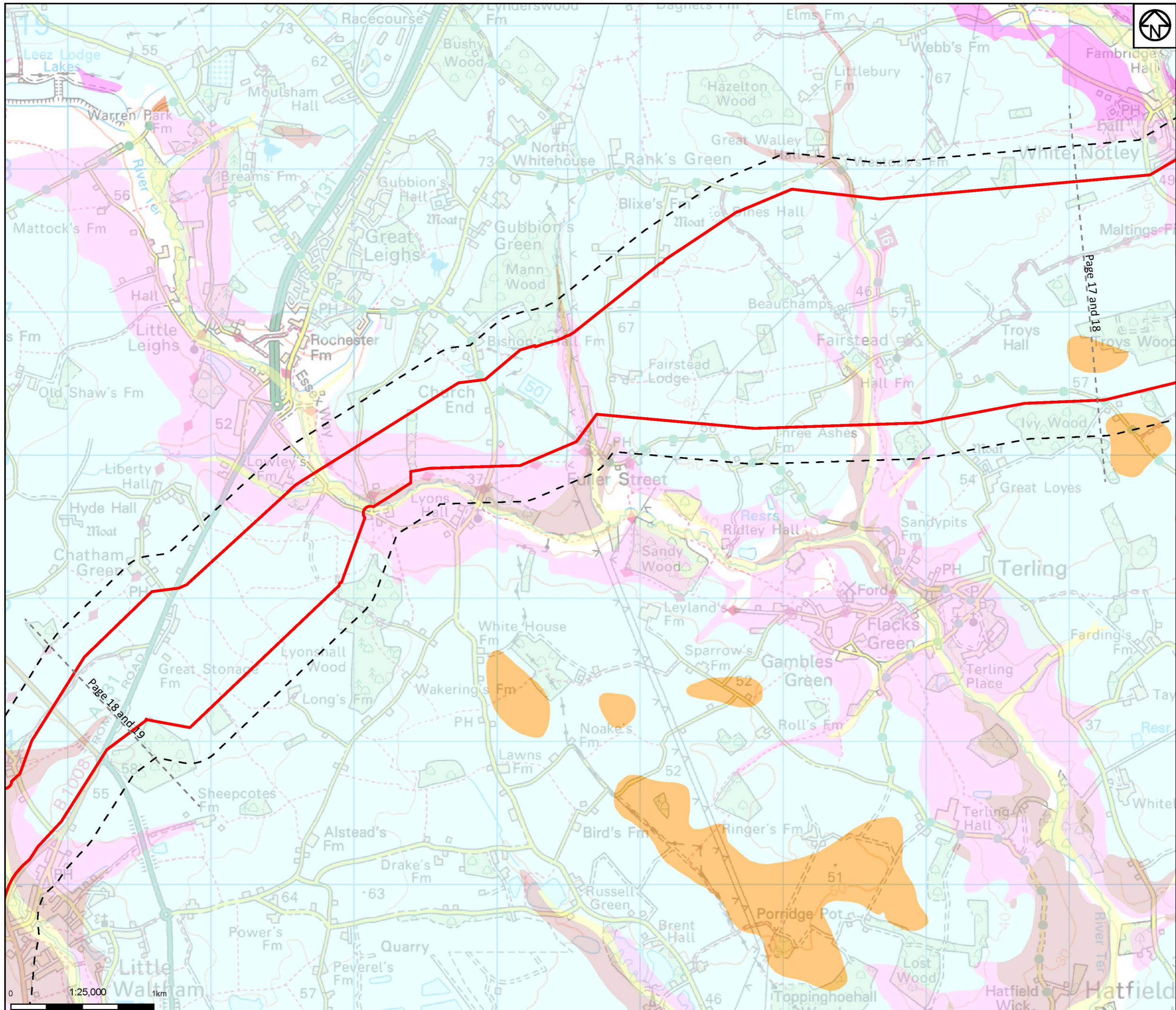
nationalgrid PROJECT: EAST ANGLIA GREEN ENERGY ENABLEMENT PROJECT

Title: **Figure 9.1 Superficial Geology**
Page 17 of 24

Designed	N.Caton	Date	02 NOV 22
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Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
Scale:	1:25,000	Datum:	AOD
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Suitability Code:	A2	Project Number:	10051663

Suitability Description: **Accepted as Concept Stage**

Drawing Number: **10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2** Revision: **P01**



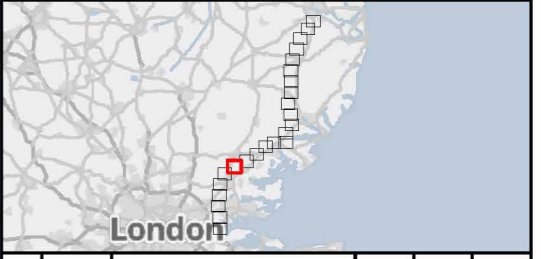
Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Glaciofluvial Deposits, Midpleistocene
- Head
- Peat
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Tufa
- Brickearth

Notes: Superficial Geology:
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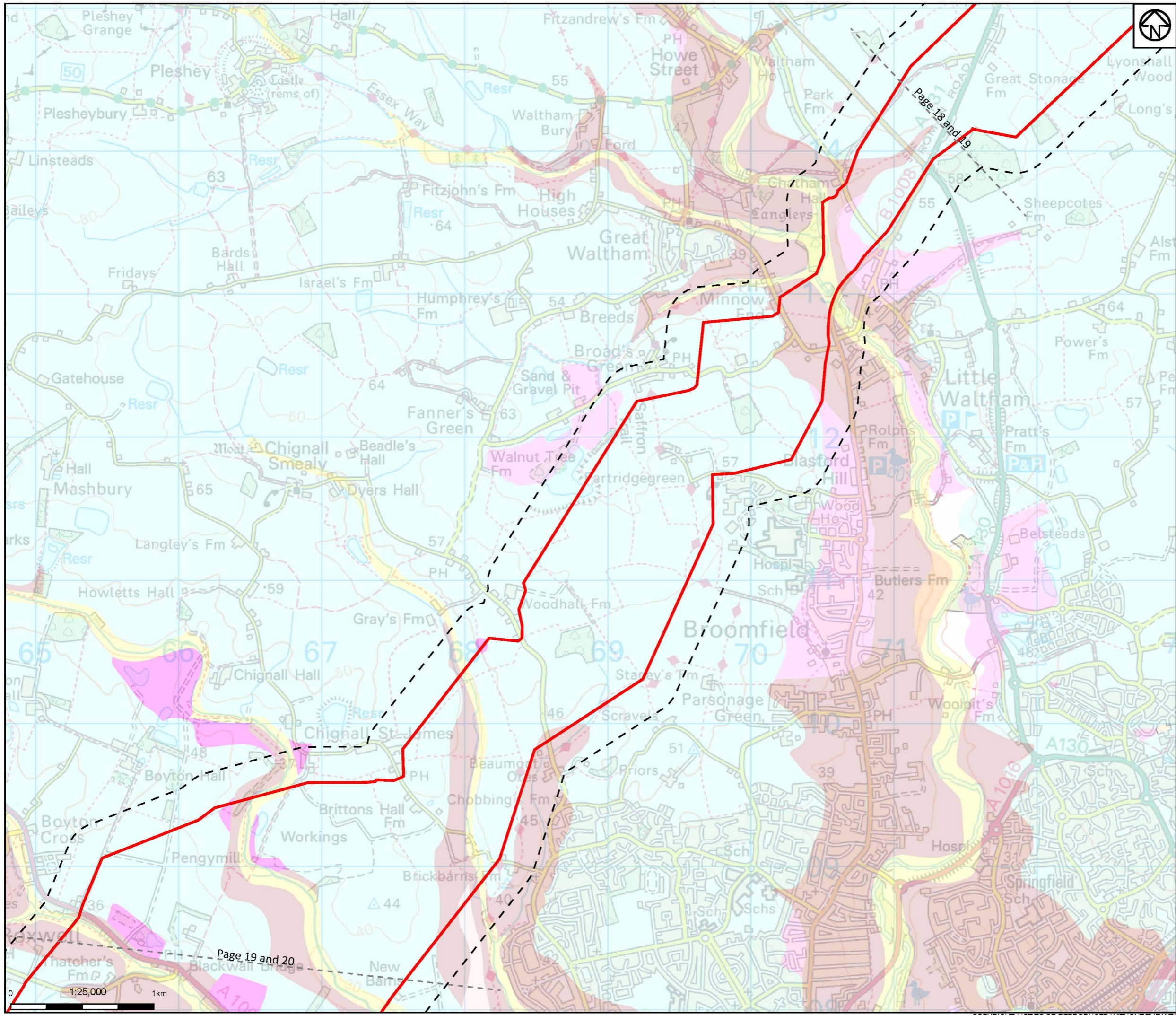
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Title:
**Figure 9.1
 Superficial Geology**
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Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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Suitability Code:	A2	Project Number:	10051663

Suitability Description:
 Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2	Revision: P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Glaciofluvial Deposits, Middlepleistocene
 - Glaciolacustrine Deposits, Middlepleistocene
 - Head
 - River Terrace Deposits
 - Lowestoft Formation
 - Kesgrave Catchment Subgroup

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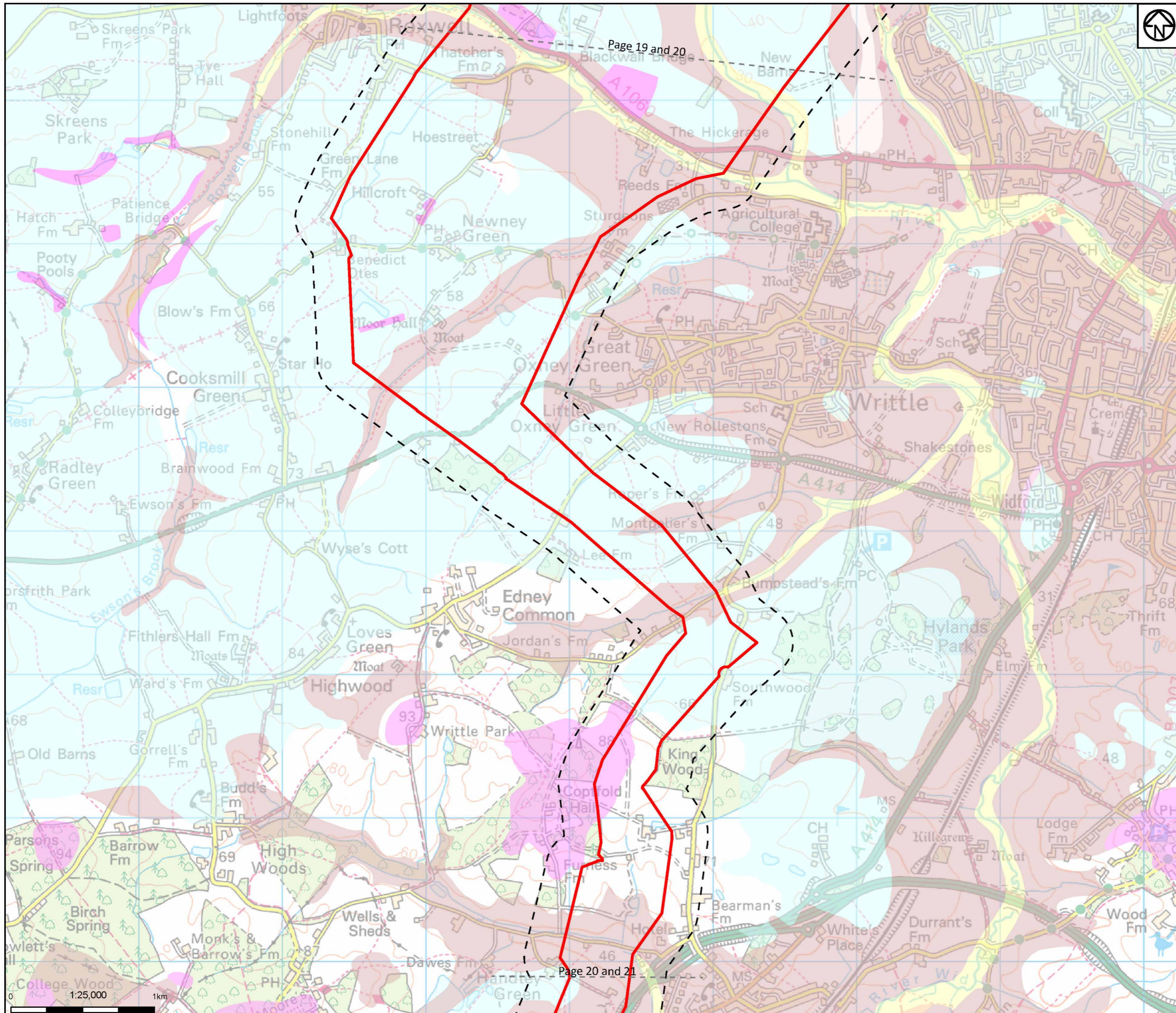
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Title:
**Figure 9.1
 Superficial Geology**
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Approved	K.Burrows	Date	02 NOV 22
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Suitability Code:	A2	Project Number:	10051663

Suitability Description:
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Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2	Revision: P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Glaciofluvial Deposits, Middlepleistocene
 - Glaciolacustrine Deposits, Middlepleistocene
 - Head
 - Peat
 - River Terrace Deposits
 - Lowestoft Formation
 - Kesgrave Catchment Subgroup
 - Stanmore Gravel Formation

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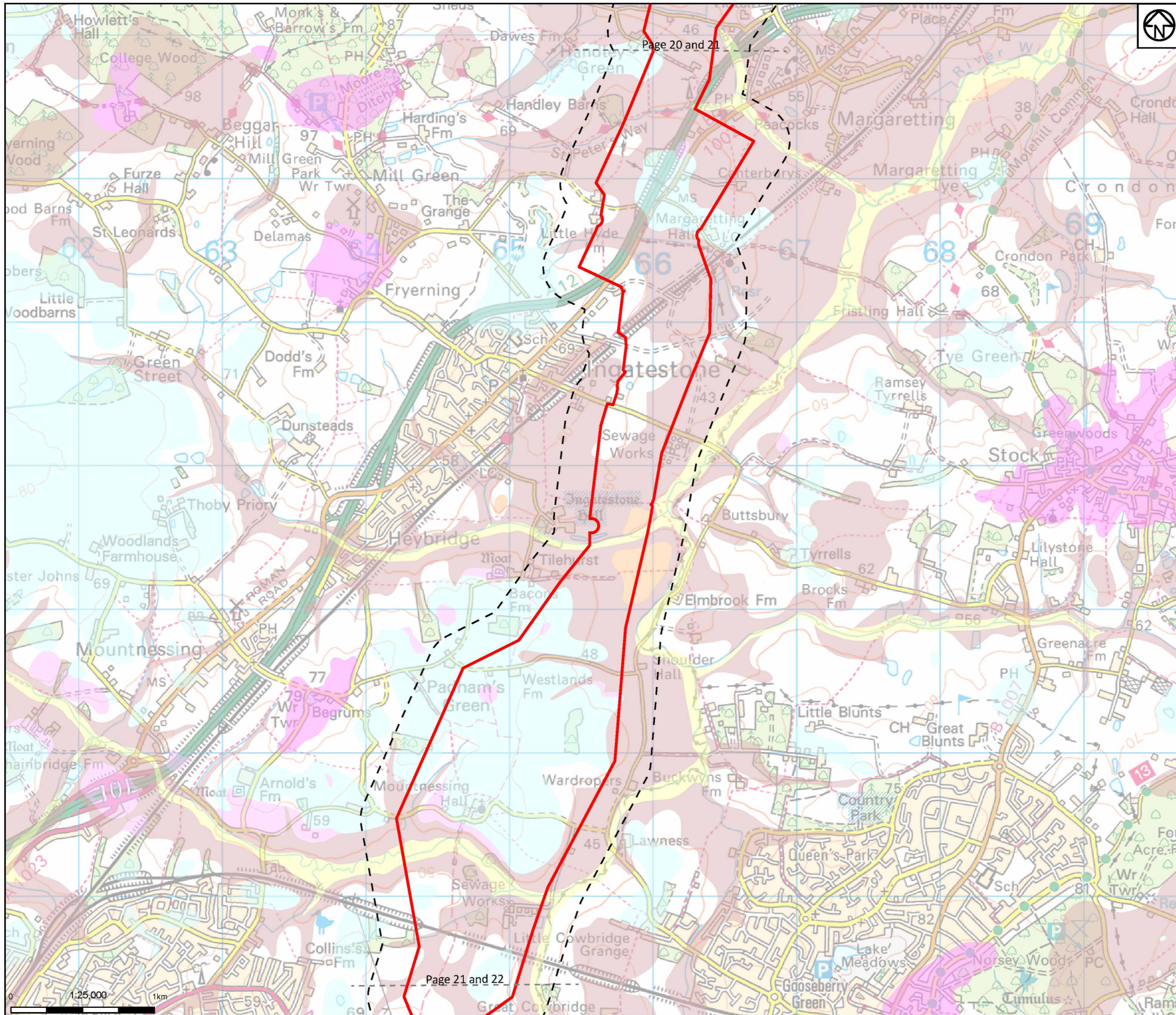
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Title:
**Figure 9.1
 Superficial Geology**
 Page 20 of 24

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Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2
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 P01



Page 20 and 21

Page 21 and 22



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Glaciofluvial Deposits, Middlepleistocene
 - Head
 - River Terrace Deposits
 - Lowestoft Formation
 - Stanmore Gravel Formation

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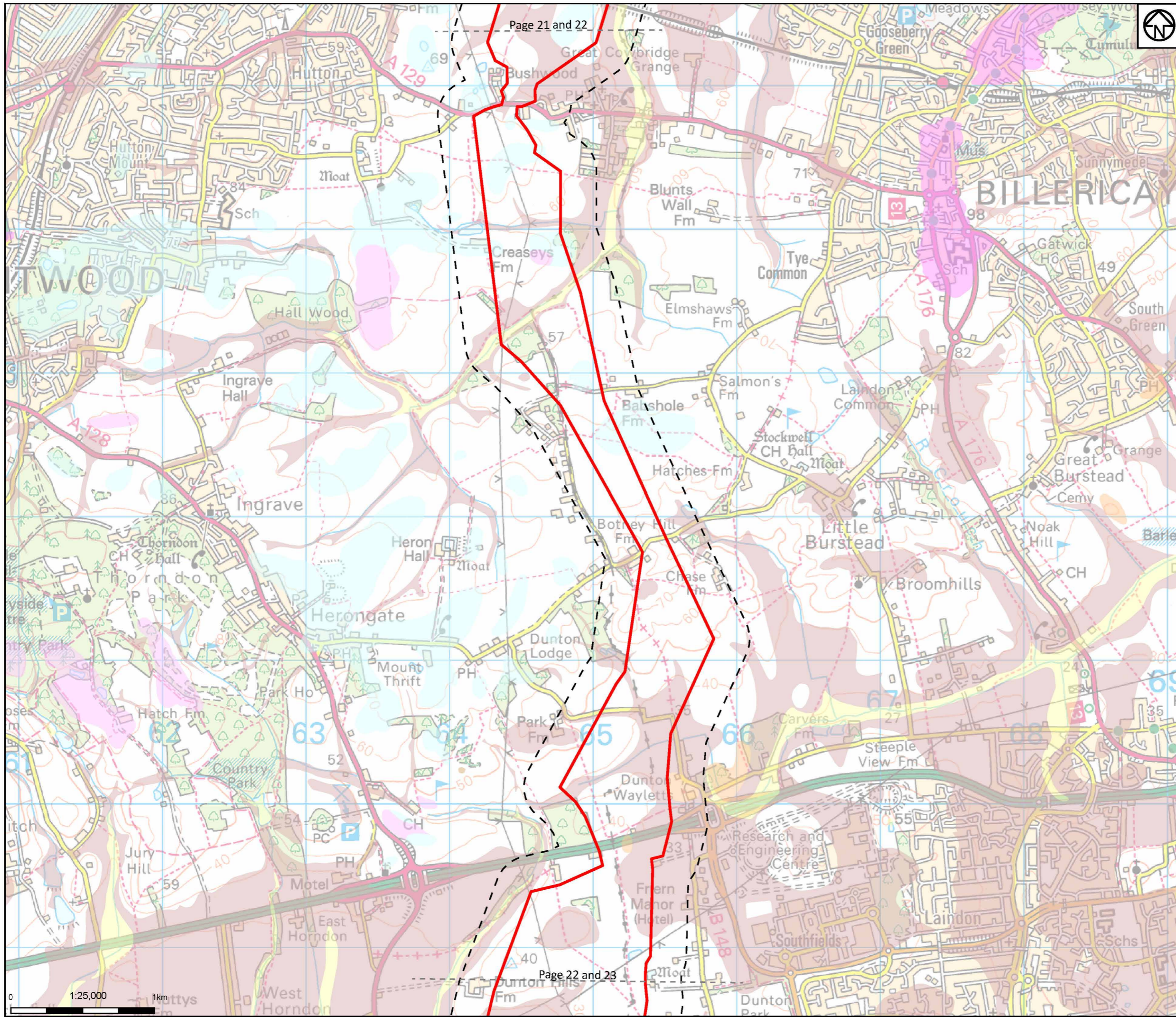
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Title:
**Figure 9.1
 Superficial Geology
 Page 21 of 24**

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Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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Suitability Code:	A2	Project Number:	10051663

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Drawing Number:
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Glaciofluvial Deposits, Middlepleistocene
 - Head
 - Peat
 - River Terrace Deposits
 - Lowestoft Formation
 - Stanmore Gravel Formation

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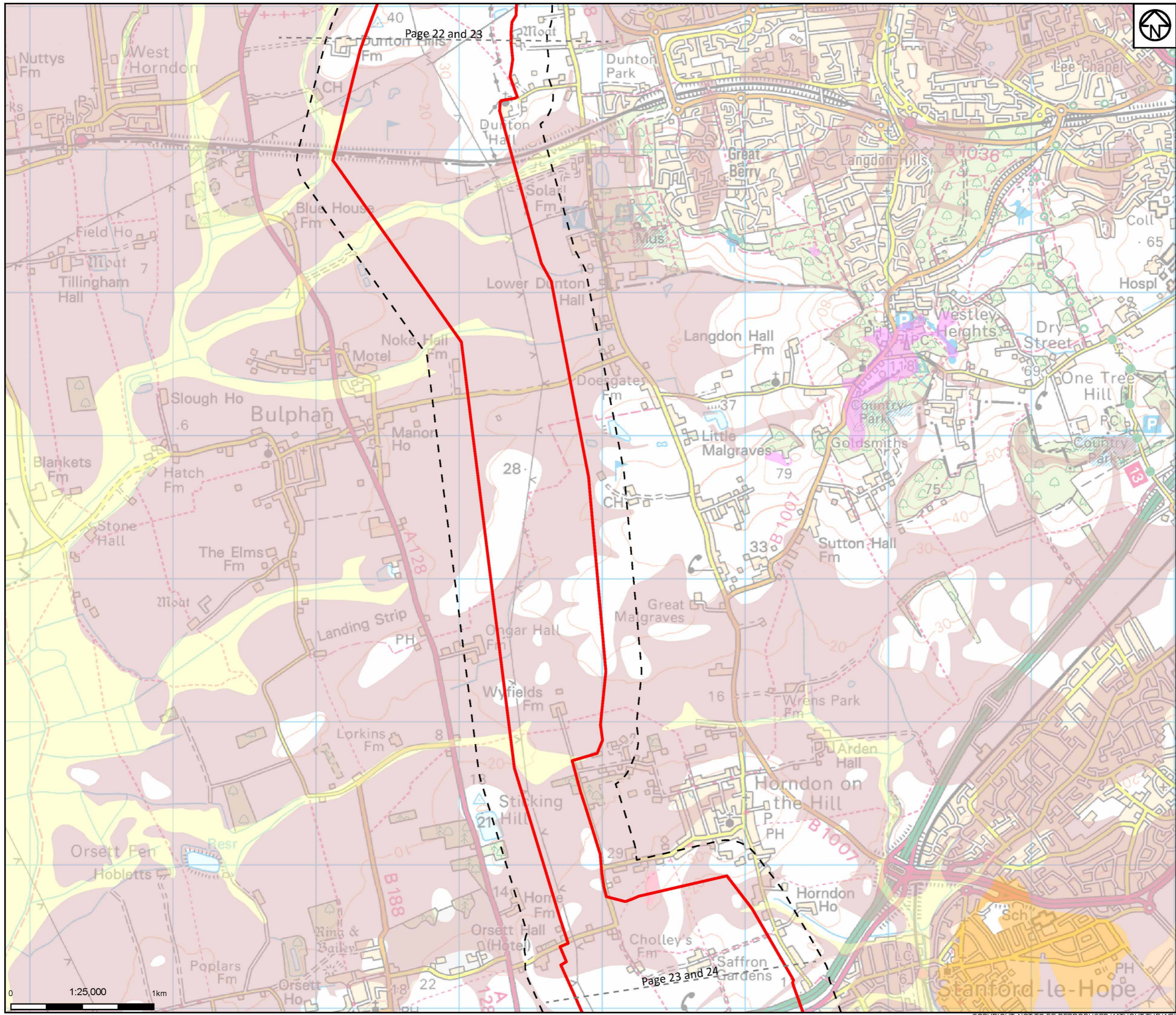
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Title:
**Figure 9.1
 Superficial Geology**
 Page 22 of 24

Designed	N.Caton	Date	02 NOV 22
Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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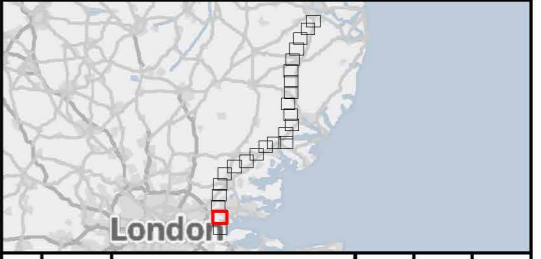
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Drawing Number:
 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2
 Revision:
 P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Head
 - River Terrace Deposits
 - Stanmore Gravel Formation
 - Lynch Hill Gravel Member
 - Black Park Gravel Member

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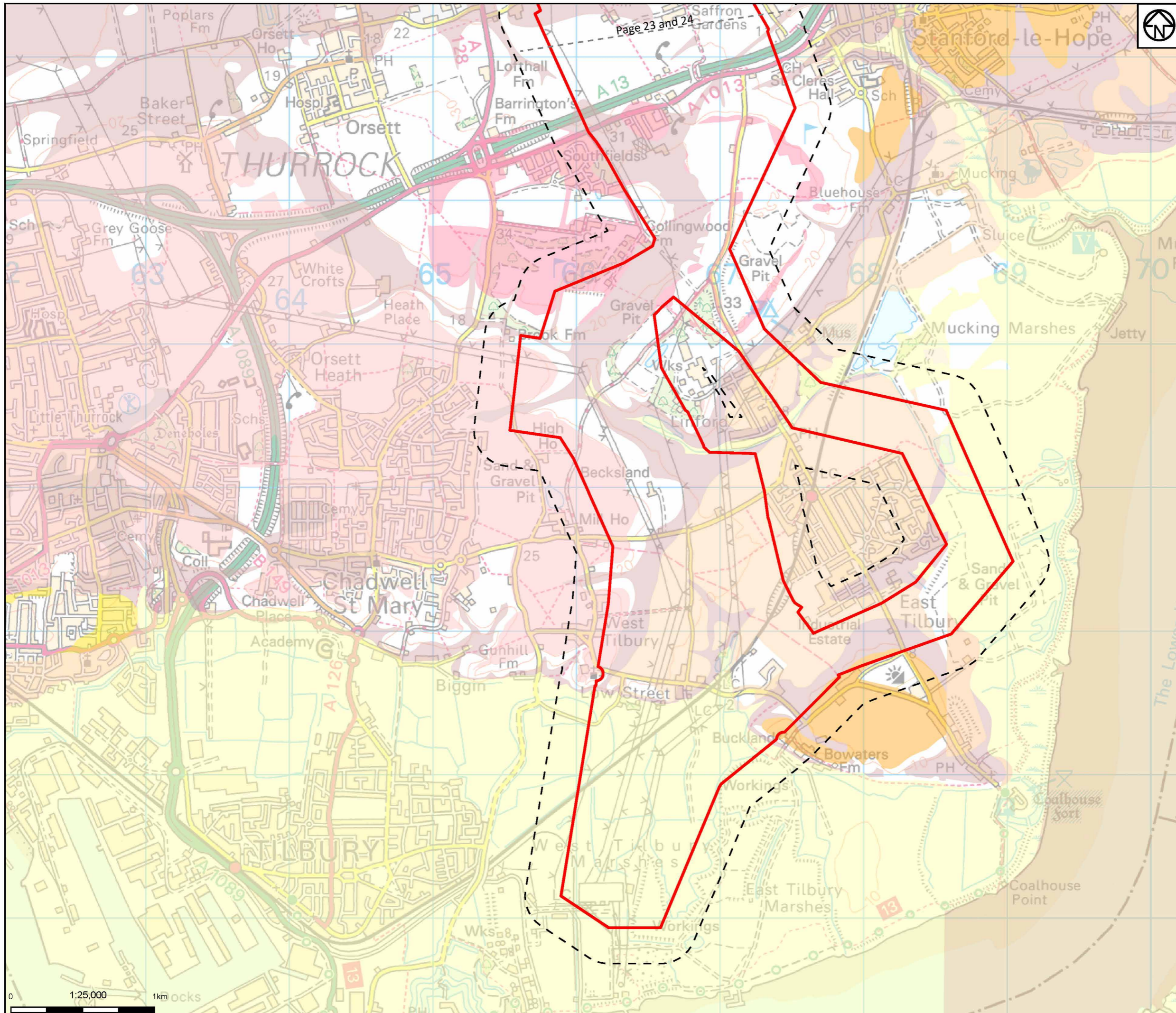
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Title:
**Figure 9.1
 Superficial Geology**
 Page 23 of 24

Designed	N.Caton	Date	02 NOV 22
Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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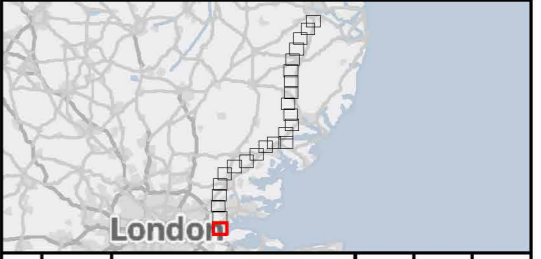
Suitability Description:
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Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2	Revision: P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Beach and Tidal Flat Deposits
 - Head
 - River Terrace Deposits
 - Lynch Hill Gravel Member
 - Black Park Gravel Member
 - Ilford Silt Member
 - Taplow Gravel Member
 - Kempton Park Gravel Member
 - Boyn Hill Gravel Member
 - Tidal River or Creek Deposits

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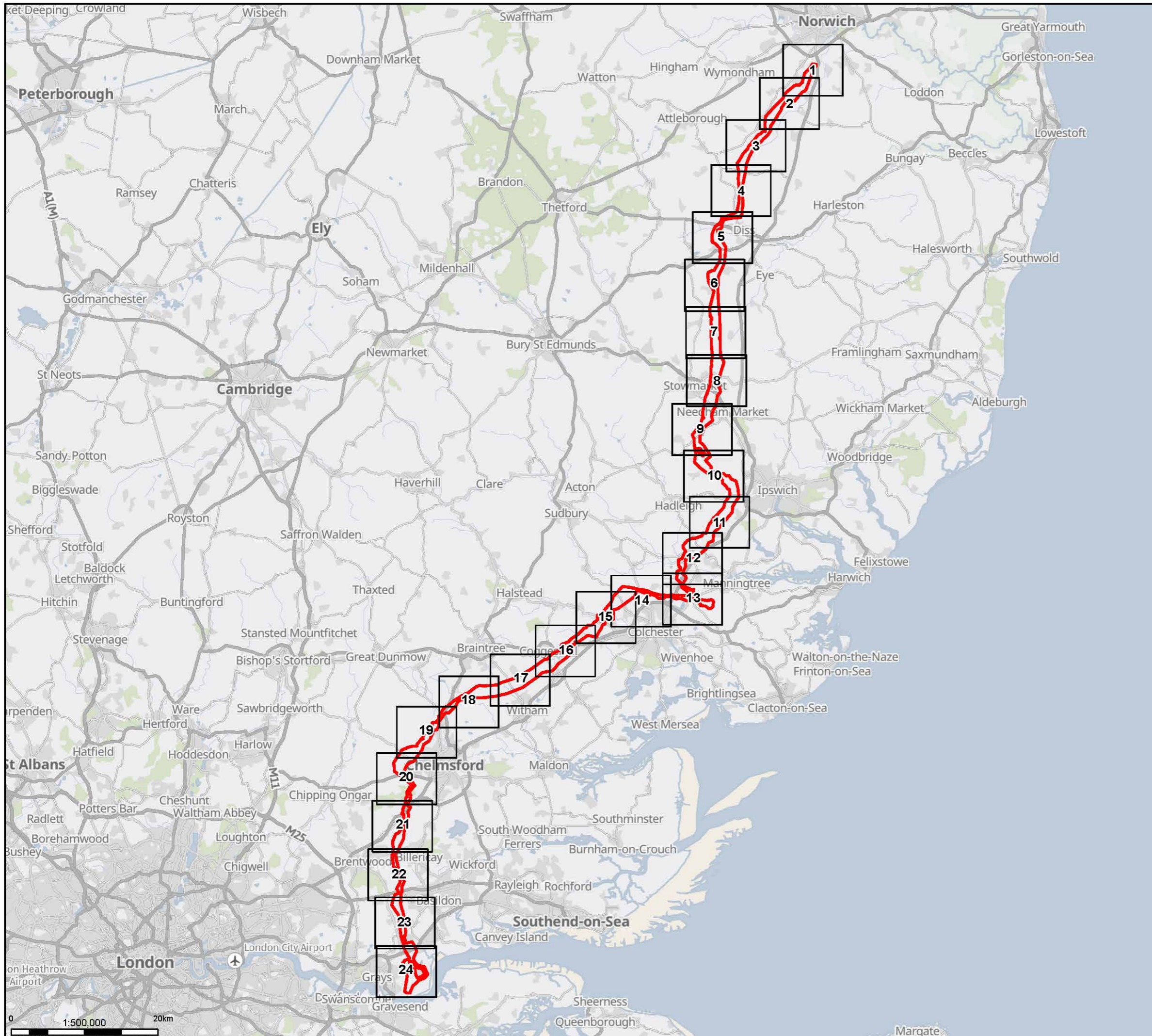
Title:
Figure 9.1 Superficial Geology
Page 24 of 24


Designed	N.Caton	Date	02 NOV 22
Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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Suitability Code:	A2	Project Number:	10051663

Suitability Description:
Accepted as Concept Stage

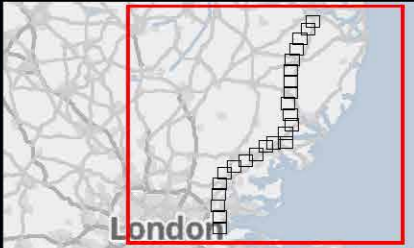
Drawing Number:
10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2
Revision:
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0 1:25,000 1km



Legend
 Scoping Report Corridor
 Boxes represent the extent of the following pages

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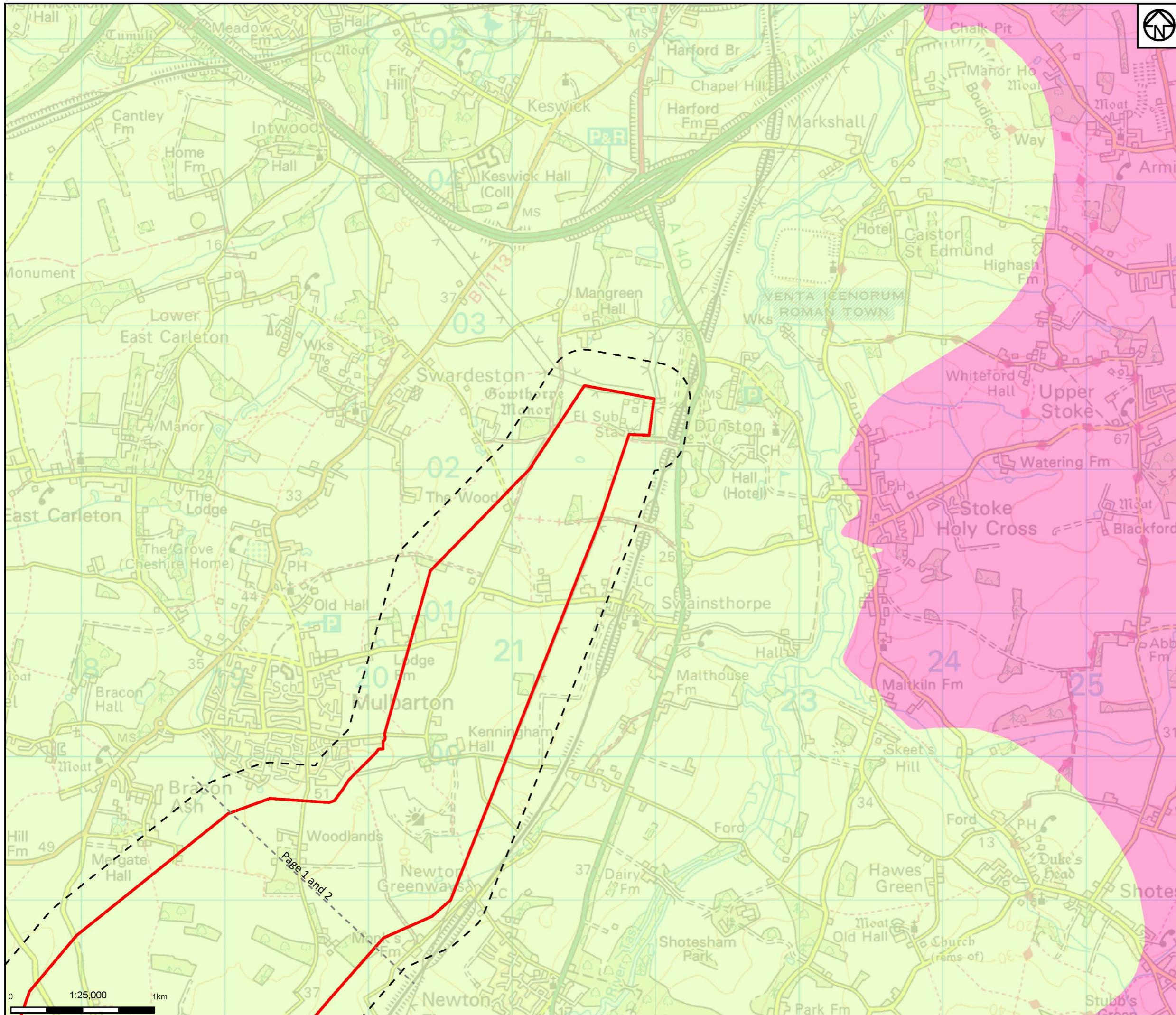
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Title:
**Figure 9.2
 Bedrock Geology
 Overview**

Designed	N.Caton	Date	02 NOV 22
Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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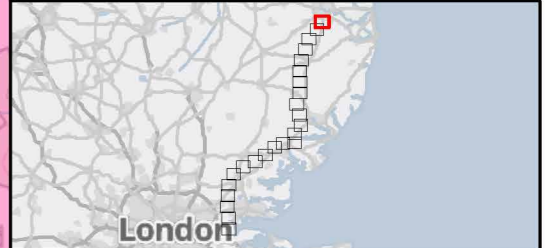
Suitability Description:
Accepted as Concept Stage

Drawing Number: **10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2** Revision: **P01**



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
 - Crag Group

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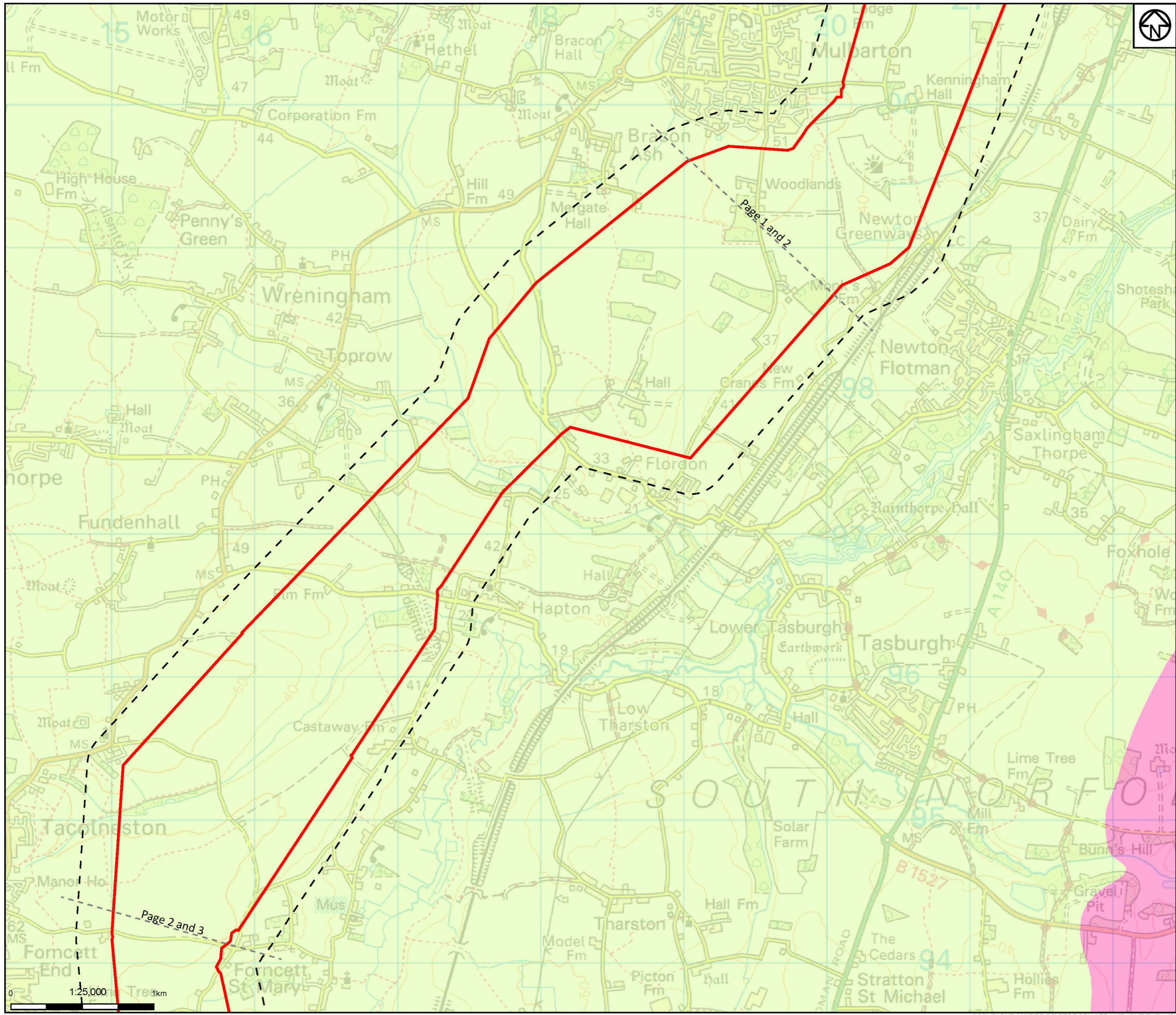
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Title:
**Figure 9.2
Bedrock Geology
Page 1 of 24**

Designed	N.Caton	Date	02 NOV 22
Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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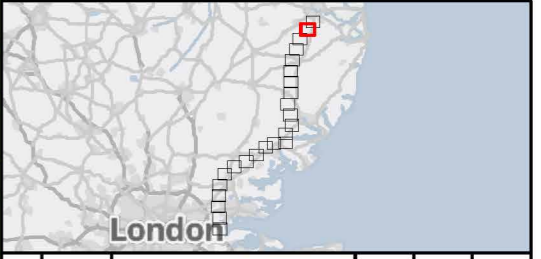
Suitability Description:
Accepted as Concept Stage

Drawing Number:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2 Revision:
P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
 - Crag Group
 - Norwich Crag Formation

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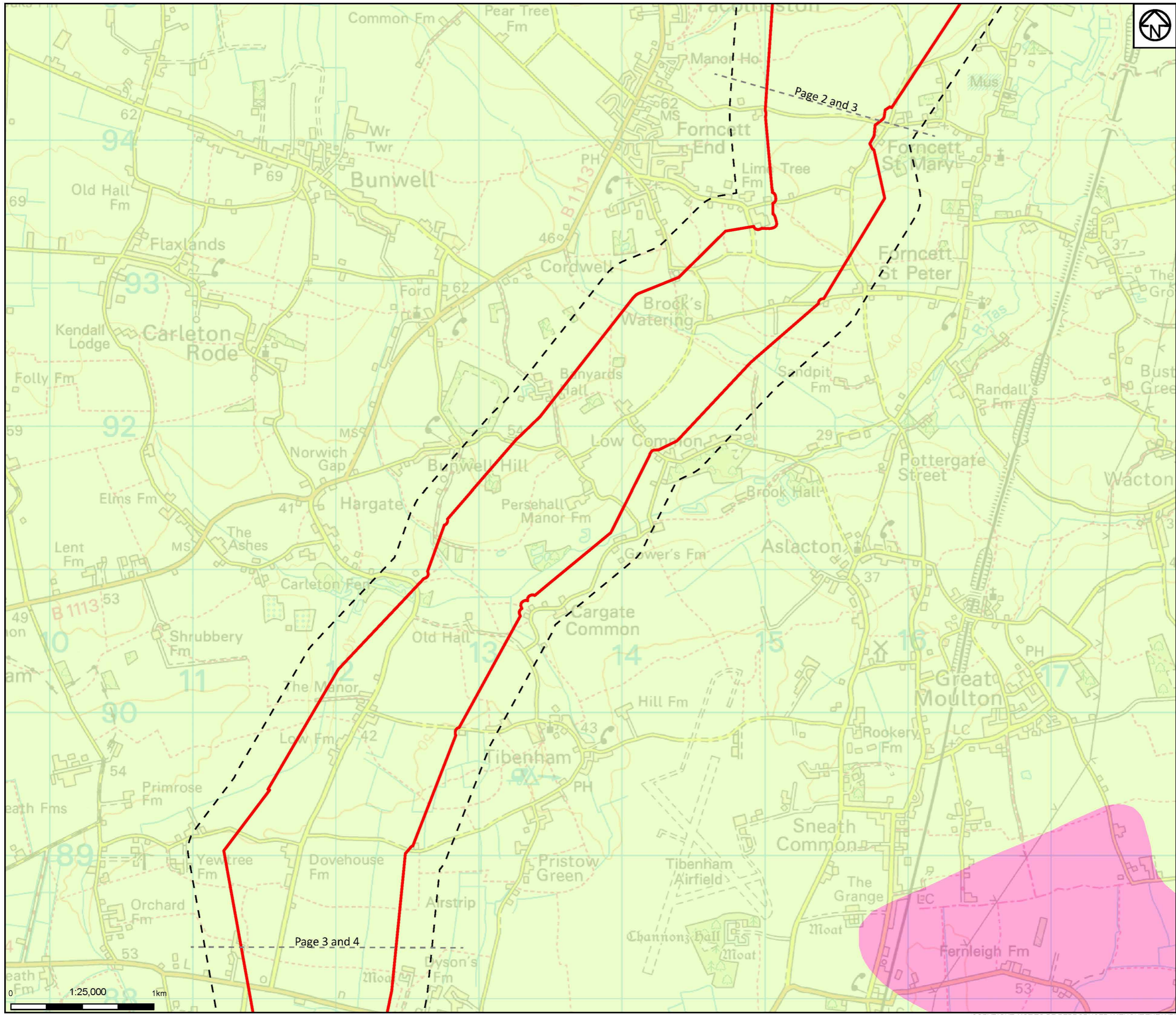
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Title: **Figure 9.2 Bedrock Geology**
Page 2 of 24

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Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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Suitability Code:	A2	Project Number:	10051663

Suitability Description: Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2
 Revision: P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - - - - - Cut line
- Geology**
- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
 - Norwich Crag Formation

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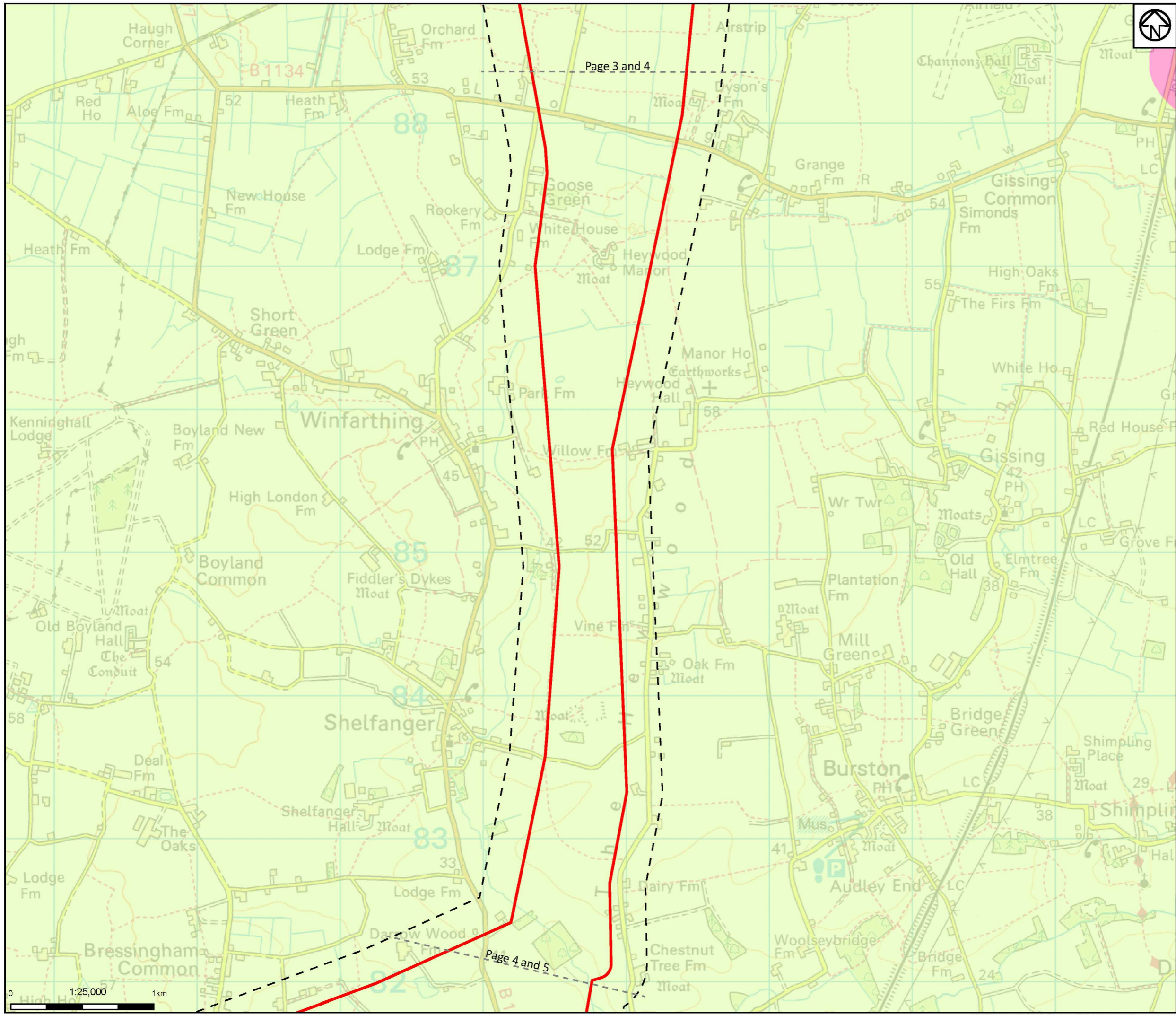
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Title:
**Figure 9.2
 Bedrock Geology
 Page 3 of 24**

Designed	N.Caton	Date	02 NOV 22
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Checked	A.Fell	Date	02 NOV 22
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Suitability Code:	A2	Project Number:	10051663

Suitability Description:
 Accepted as Concept Stage

Drawing Number:
 10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2 Revision:
 P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
 - Norwich Crag Formation

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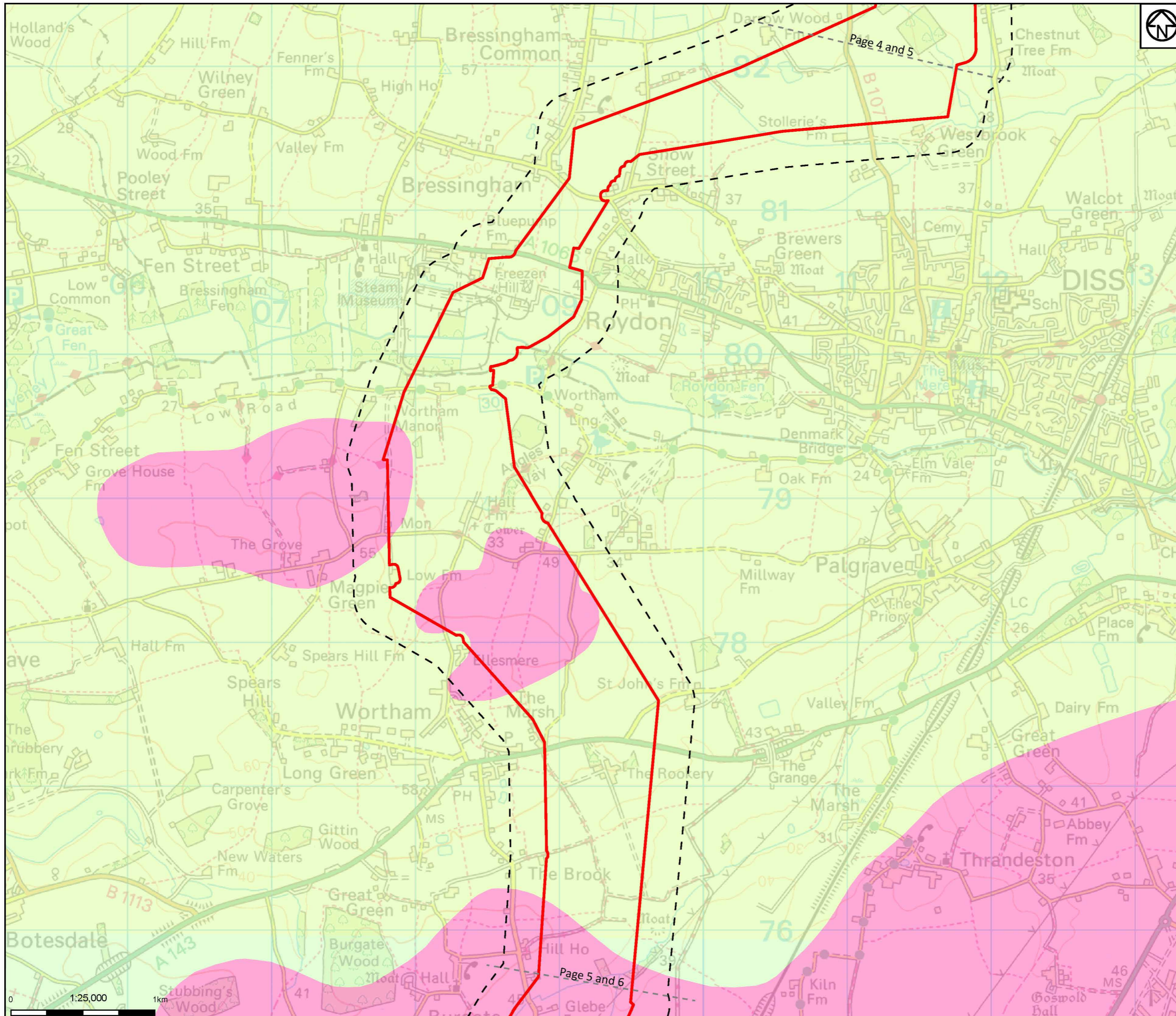
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Title:
**Figure 9.2
 Bedrock Geology
 Page 4 of 24**

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Suitability Code:	A2	Project Number:	10051663

Suitability Description:
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Drawing Number:
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P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
- Crag Group
- Norwich Crag Formation
- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)

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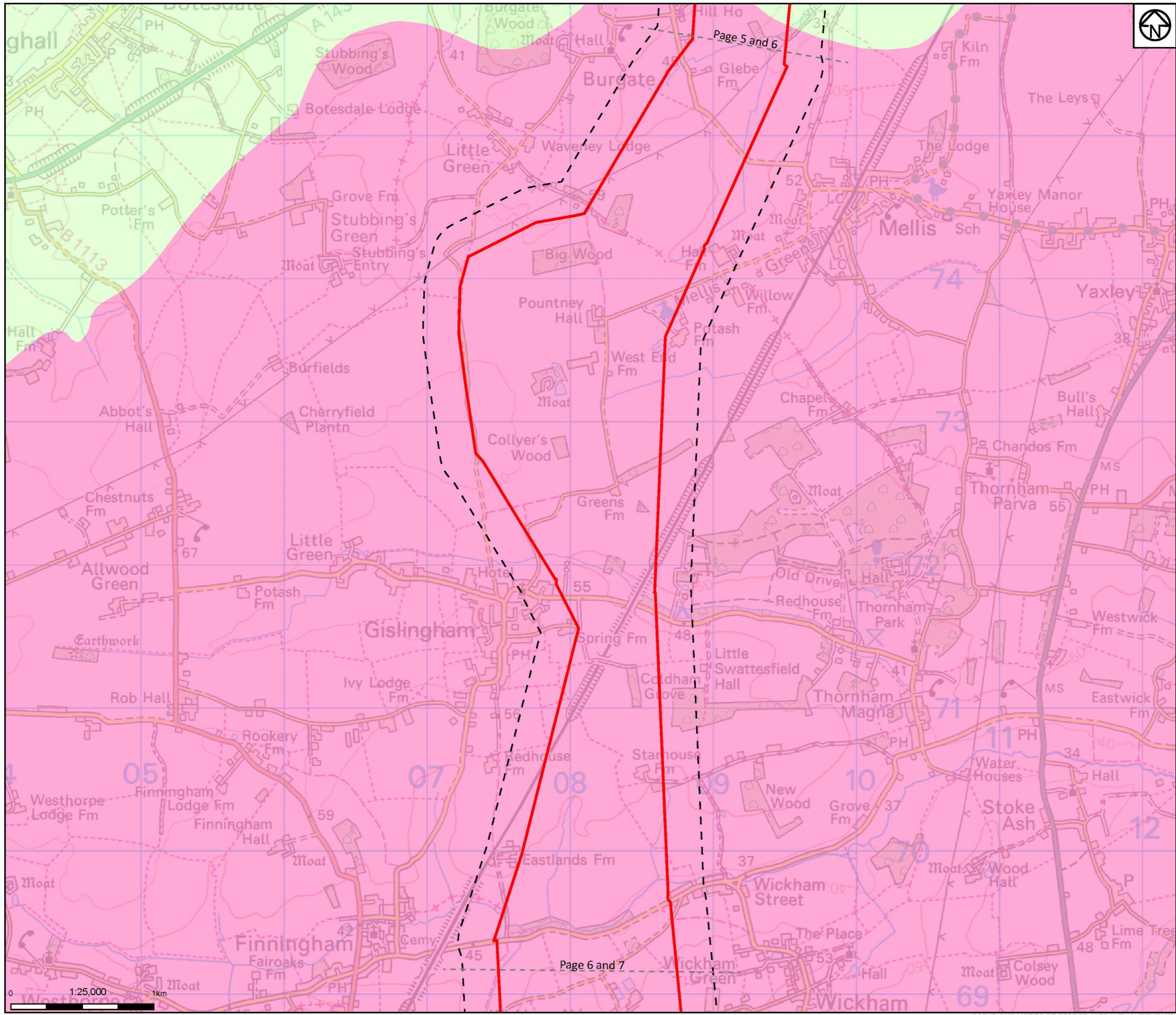
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Title: **Figure 9.2 Bedrock Geology**
Page 5 of 24

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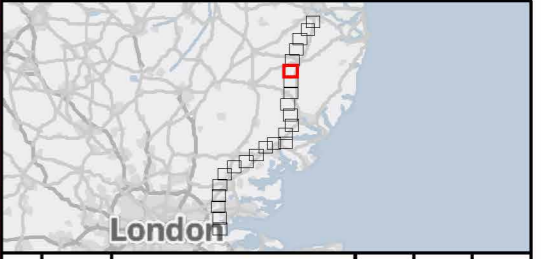
Suitability Description: Accepted as Concept Stage

Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2 Revision: P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Crag Group
 - Norwich Crag Formation
 - Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)

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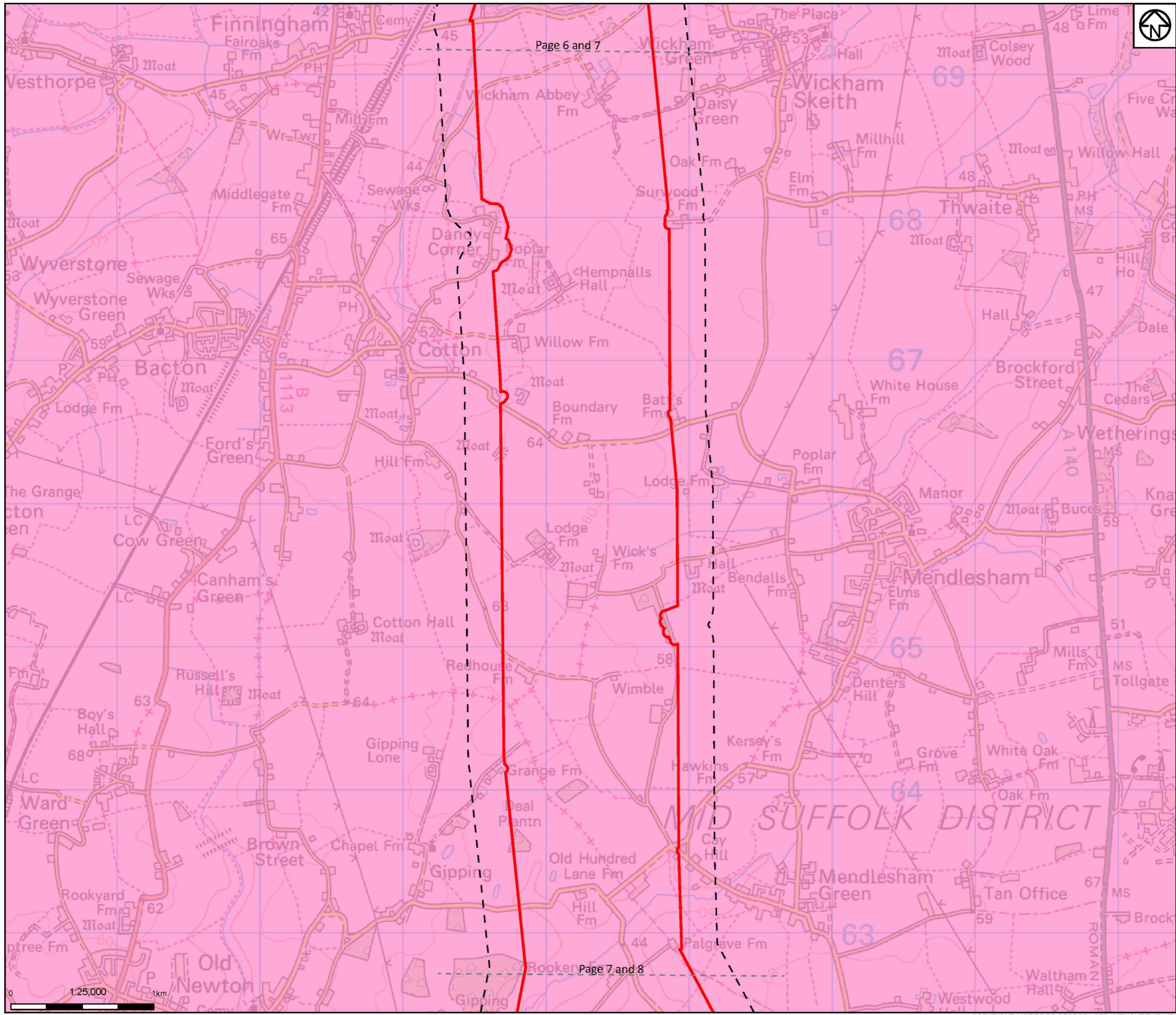
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Title: **Figure 9.2 Bedrock Geology**
Page 6 of 24

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Suitability Code:	A2	Project Number:	10051663

Suitability Description: Accepted as Concept Stage

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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Crag Group

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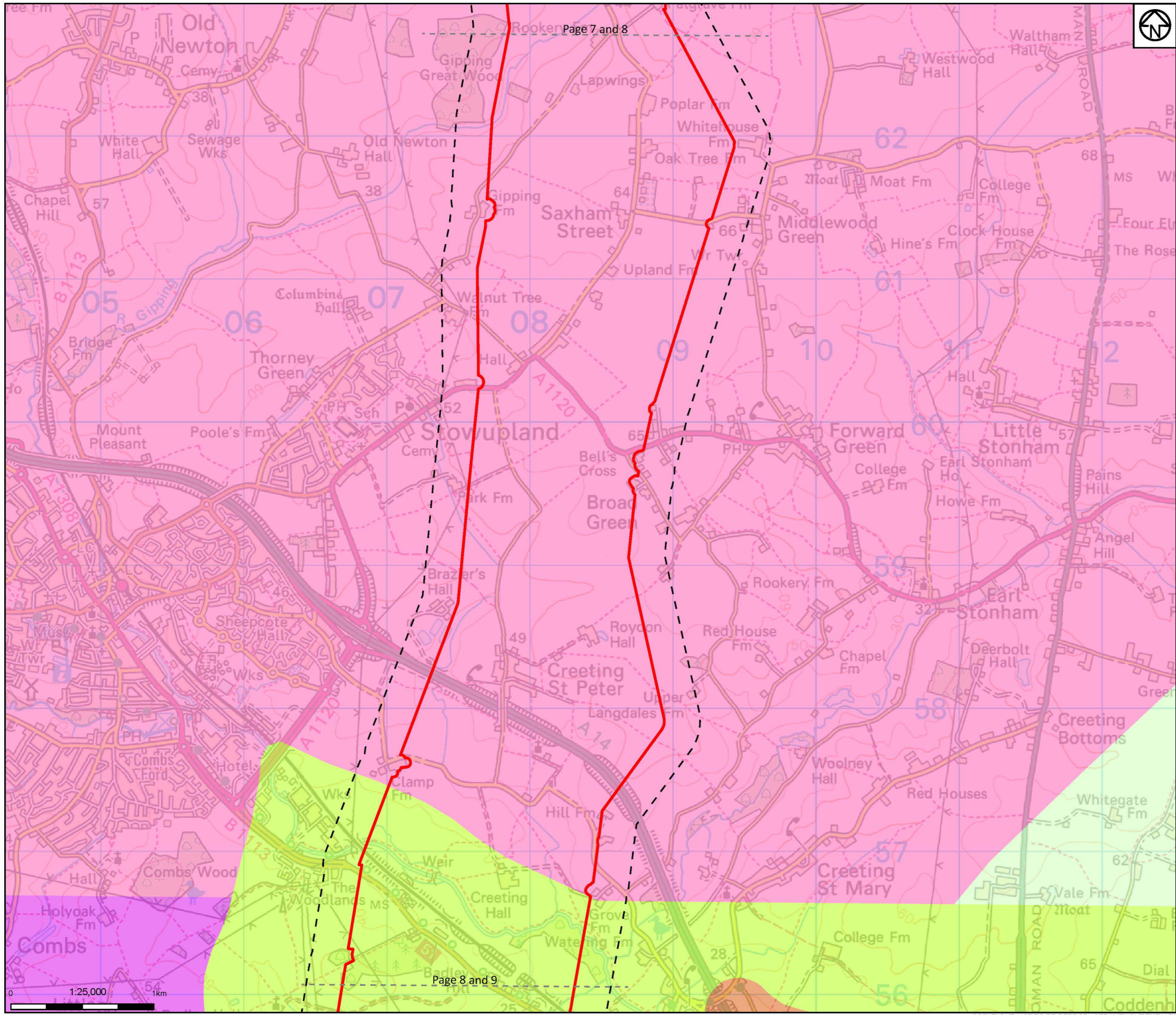
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Title:
**Figure 9.2
 Bedrock Geology
 Page 7 of 24**

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Suitability Code:	A2	Project Number:	10051663

Suitability Description:
 Accepted as Concept Stage

Drawing Number:	10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision:	P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Crag Group
 - Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)
 - Newhaven Chalk Formation
 - Red Crag Formation
 - Chillesford Church Sand Member

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 Bedrock Geology: . Ordnance Survey 0100031673



Rev	Date	Description	Drawn	Check	Approv
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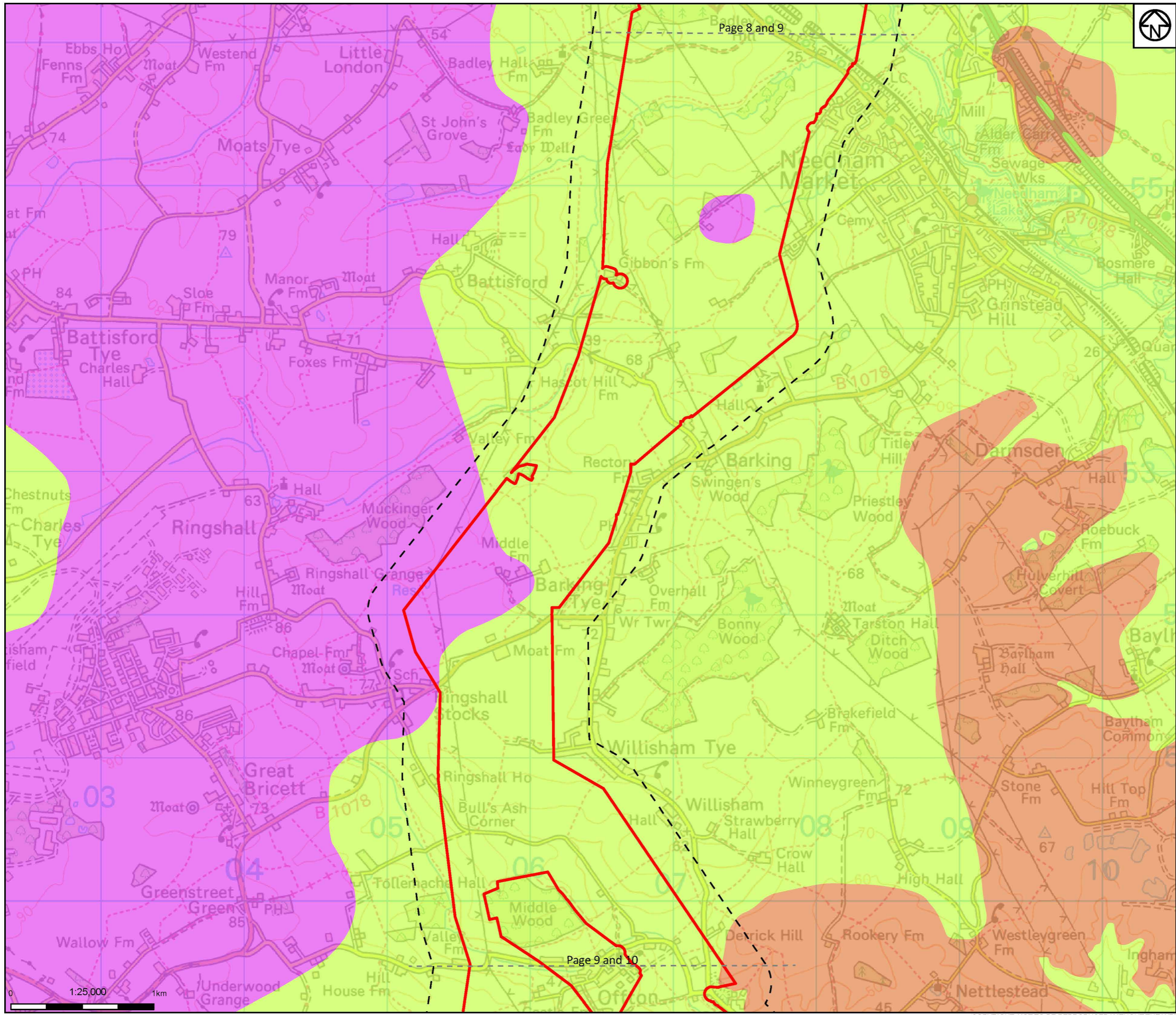
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**Figure 9.2
Bedrock Geology
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Drawn	K.Fischer	Date	02 NOV 22
Checked	A.Fell	Date	02 NOV 22
Approved	K.Burrows	Date	02 NOV 22
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - - - - - Cut line
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- Newhaven Chalk Formation
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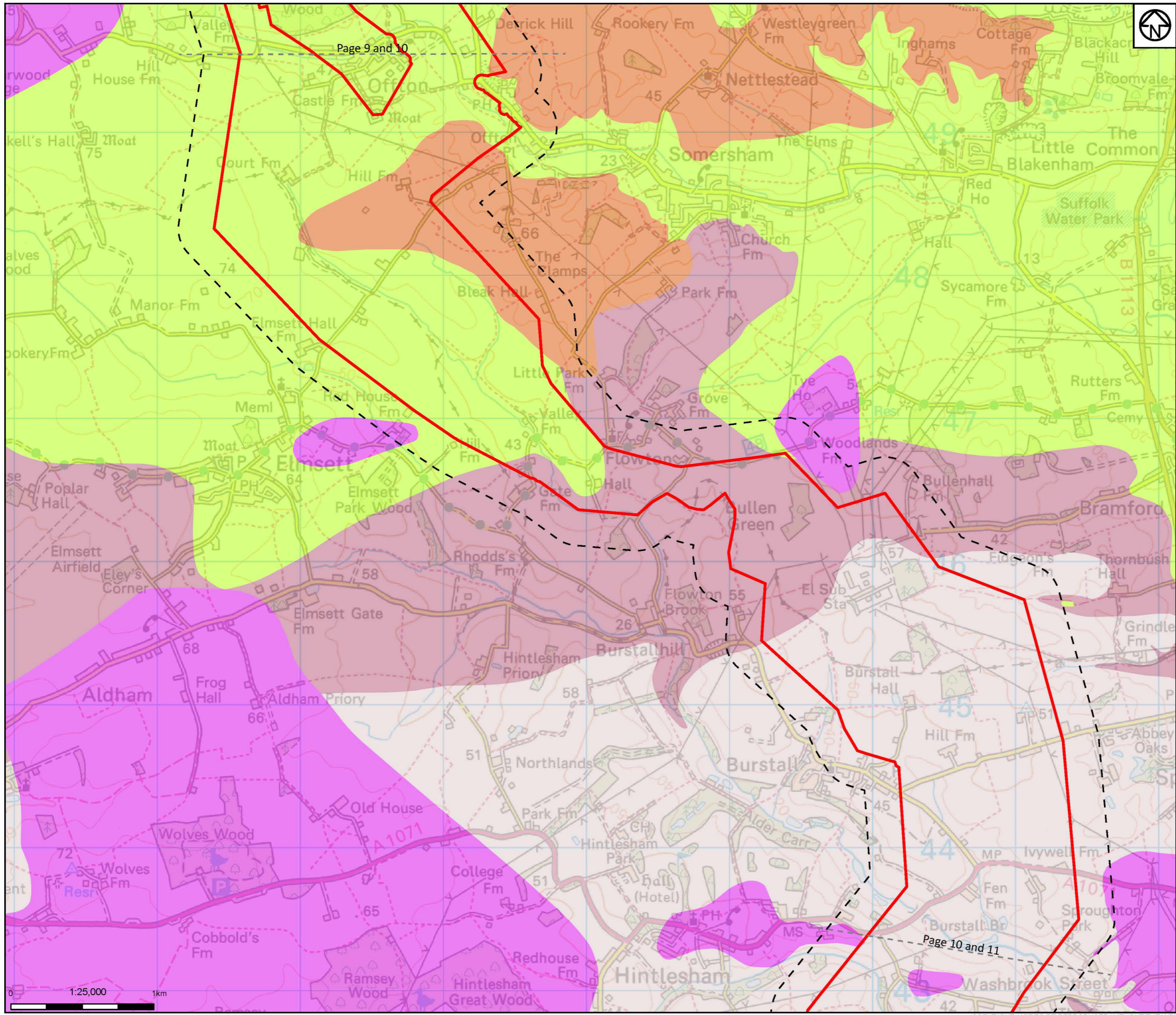
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**Figure 9.2
 Bedrock Geology
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Page 9 and 10

Page 10 and 11



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Newhaven Chalk Formation
 - Red Crag Formation
 - Chillesford Church Sand Member
 - Thanet Formation and Lambeth Group (Undifferentiated)
 - Thames Group

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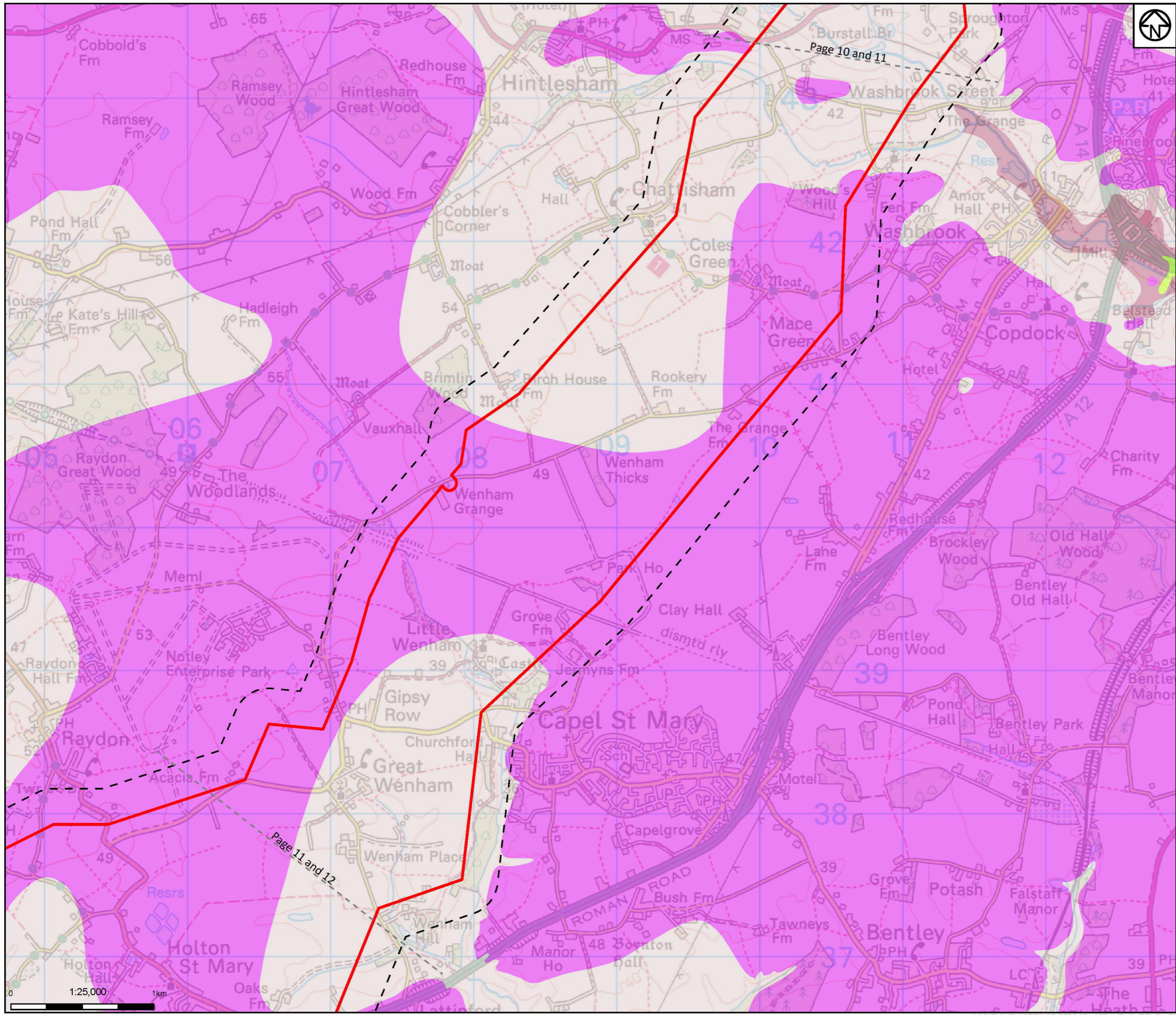
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**Figure 9.2
 Bedrock Geology
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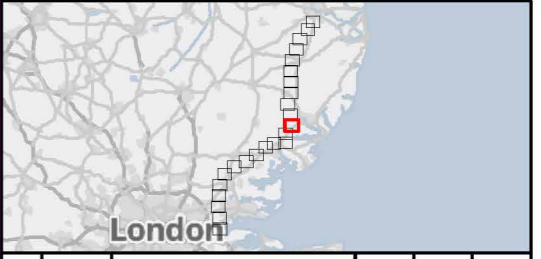
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Drawing Number:
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 Revision:
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
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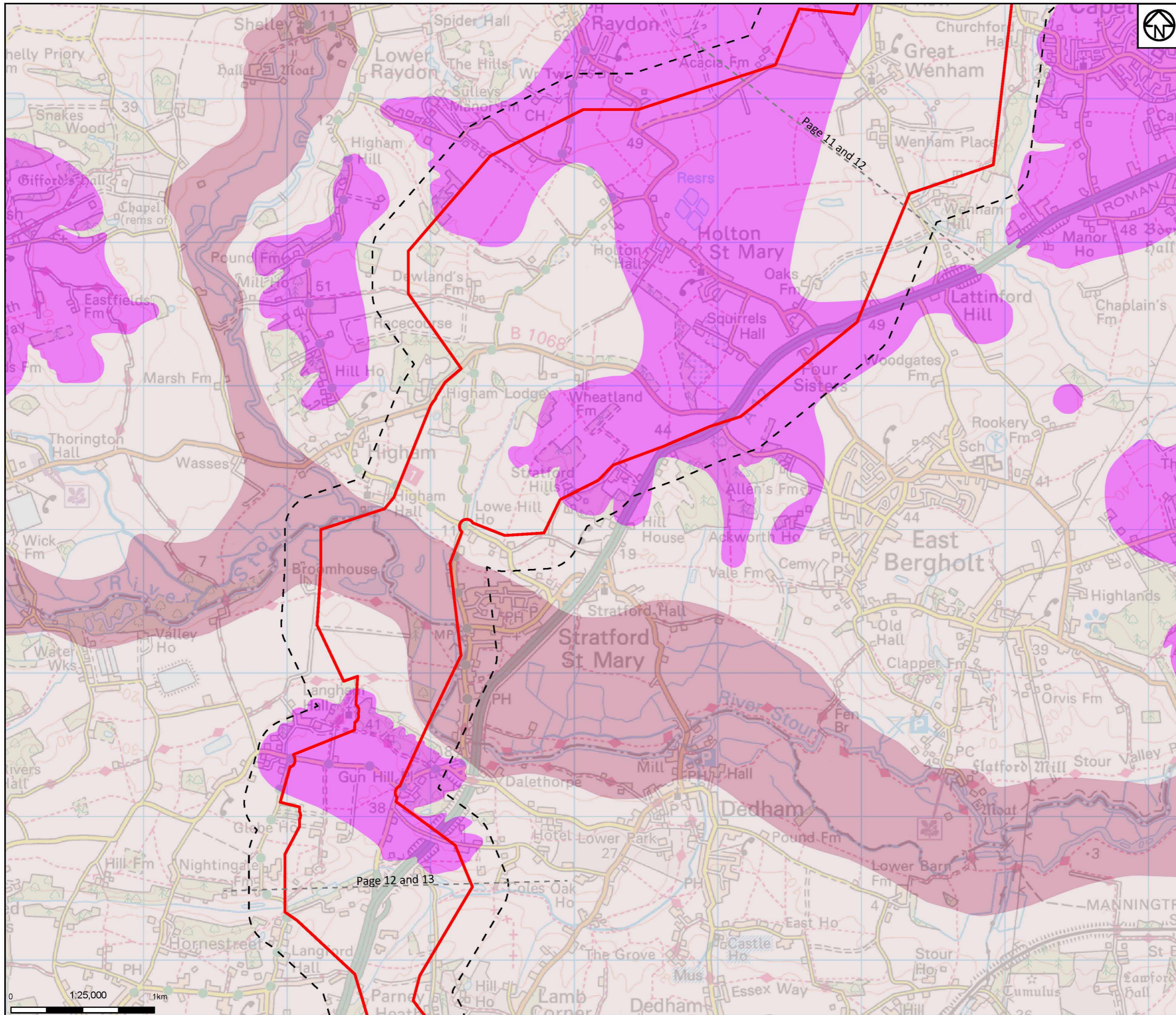
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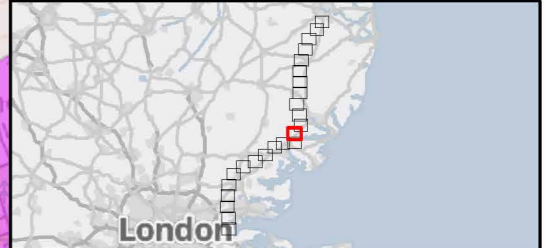
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
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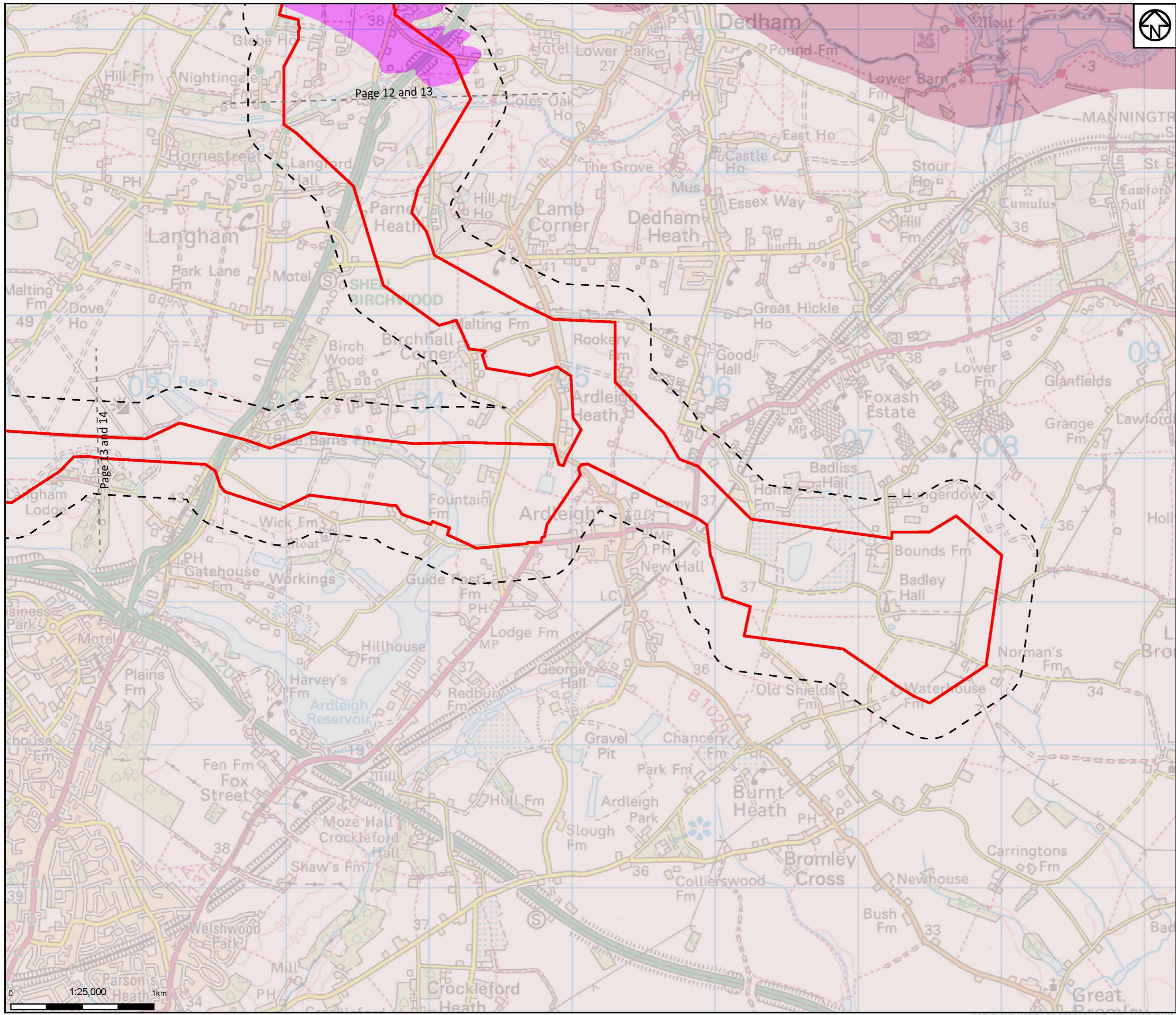
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**Figure 9.2
 Bedrock Geology
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Red Crag Formation
 - Thanet Formation and Lambeth Group (Undifferentiated)
 - Thames Group

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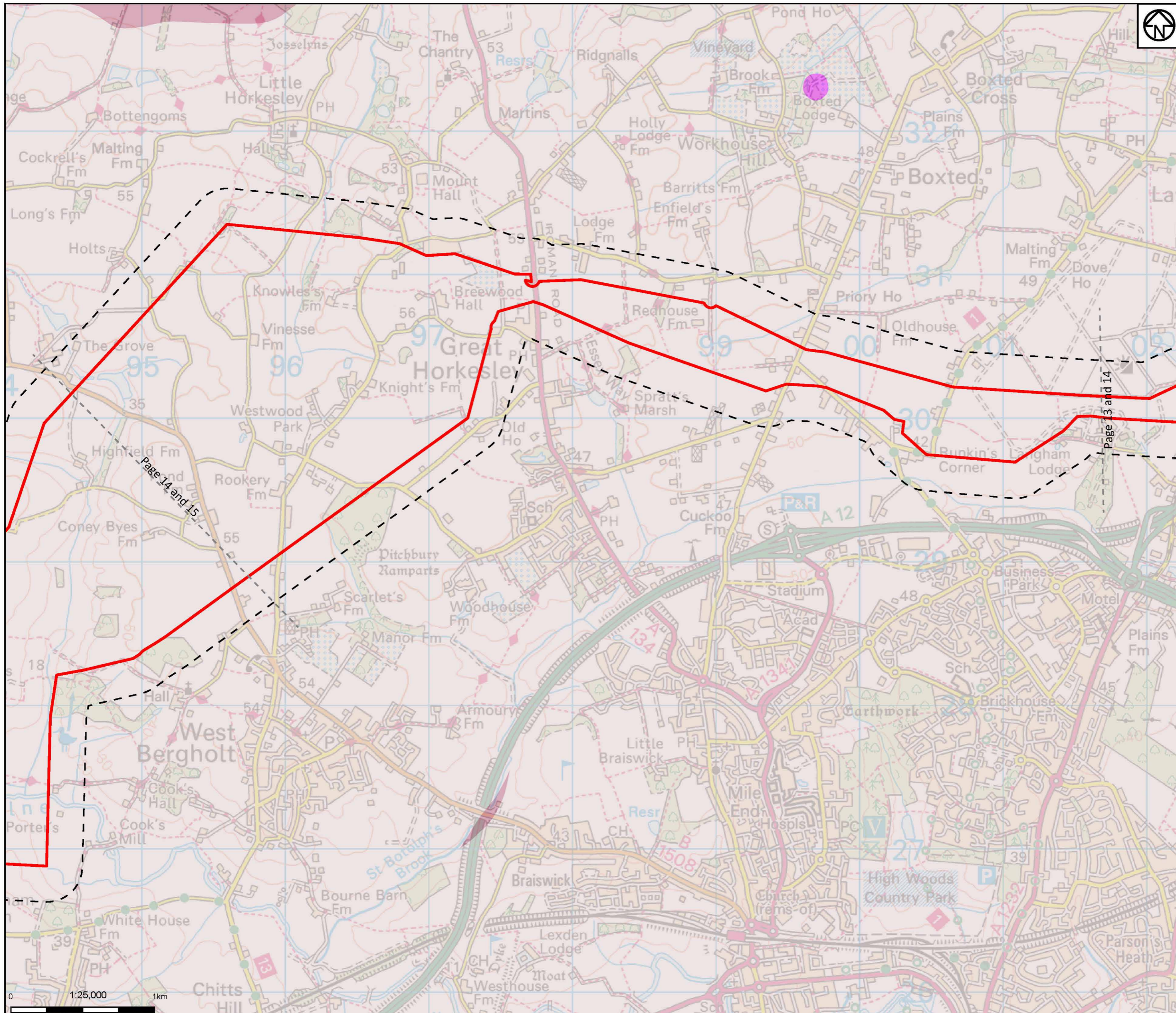
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**Figure 9.2
 Bedrock Geology
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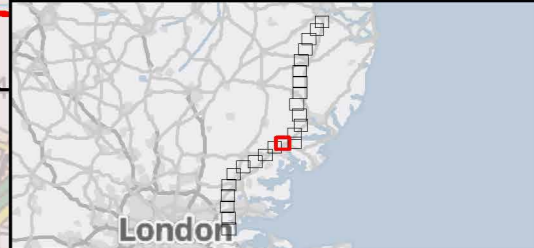
Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Red Crag Formation
- Thanet Formation and Lambeth Group (Undifferentiated)
- Thames Group
- London Clay Formation

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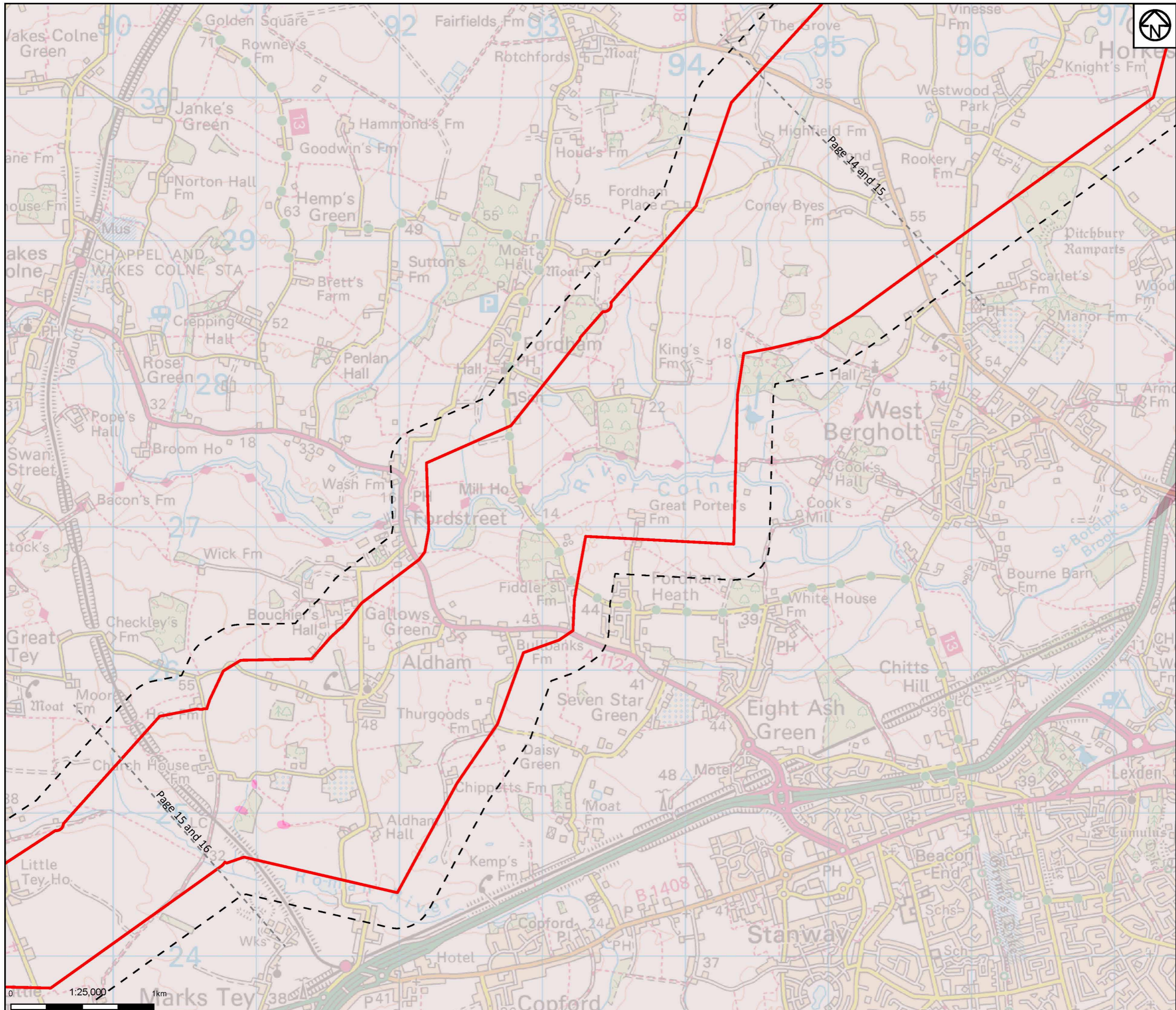
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Crag Group
- Thanet Formation and Lambeth Group (Undifferentiated)
- London Clay Formation

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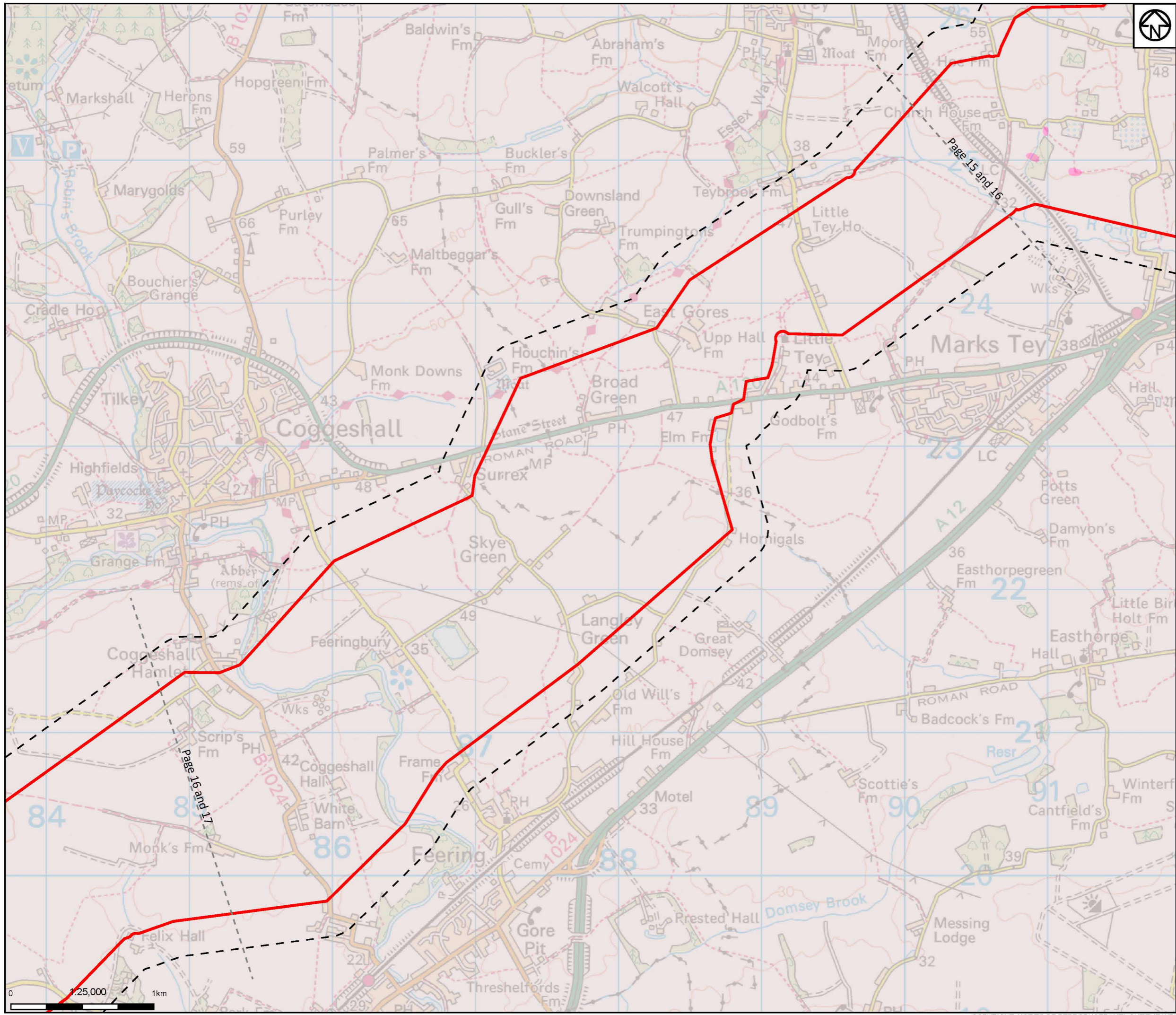
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**Figure 9.2
 Bedrock Geology
 Page 15 of 24**

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Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision: P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Crag Group
 - Thanet Formation and Lambeth Group (Undifferentiated)
 - London Clay Formation

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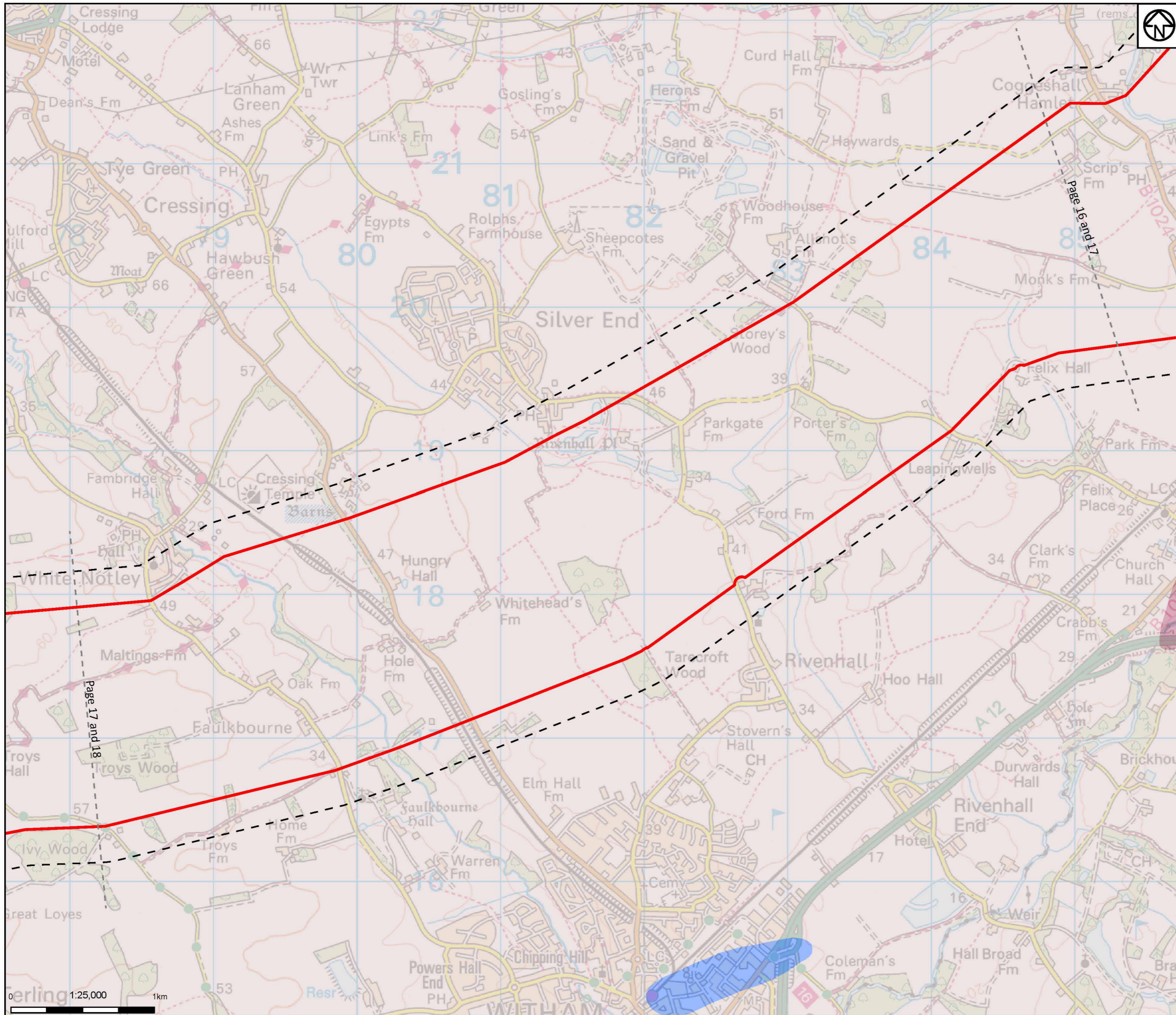
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Title:
**Figure 9.2
 Bedrock Geology**
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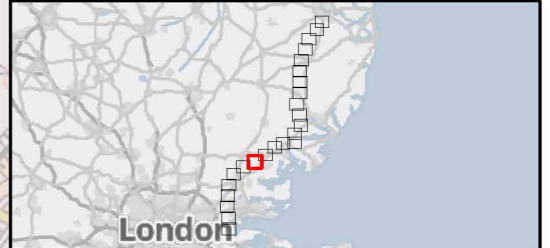
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Thanet Formation and Lambeth Group (Undifferentiated)
 - London Clay Formation
 - Thanet Formation

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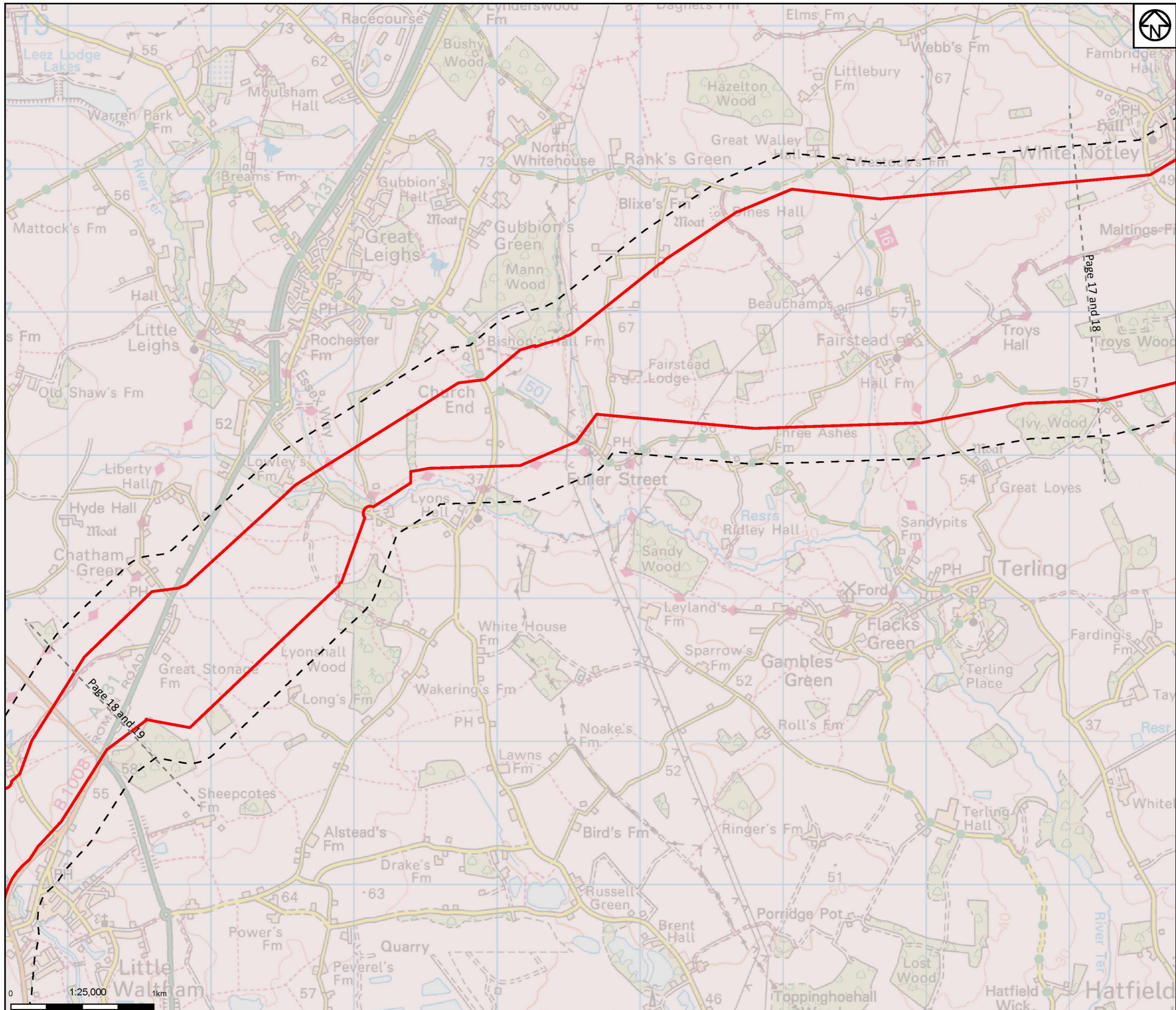
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**Figure 9.2
 Bedrock Geology
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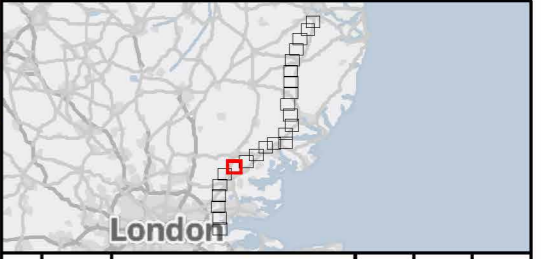
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- London Clay Formation

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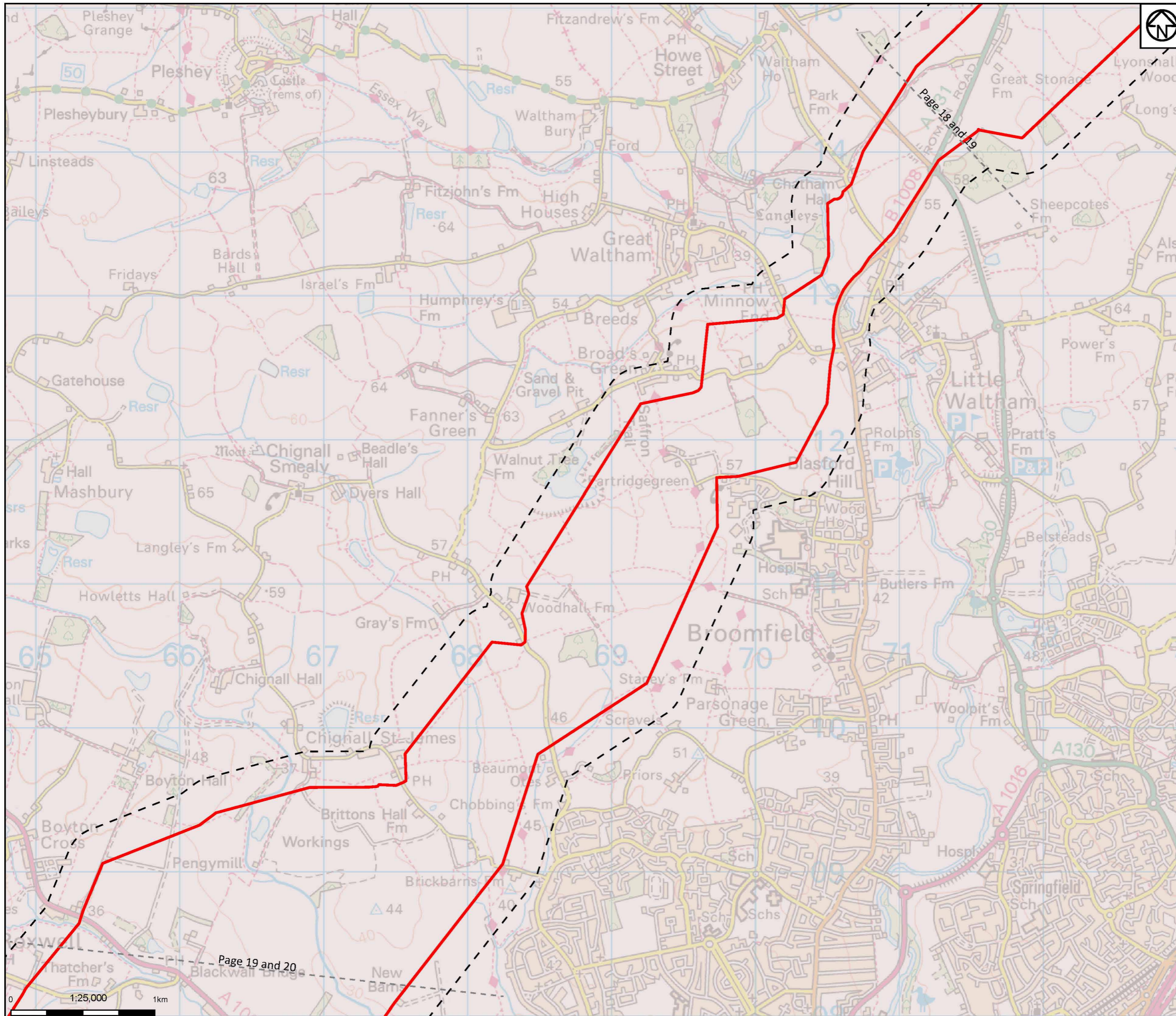
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
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- London Clay Formation

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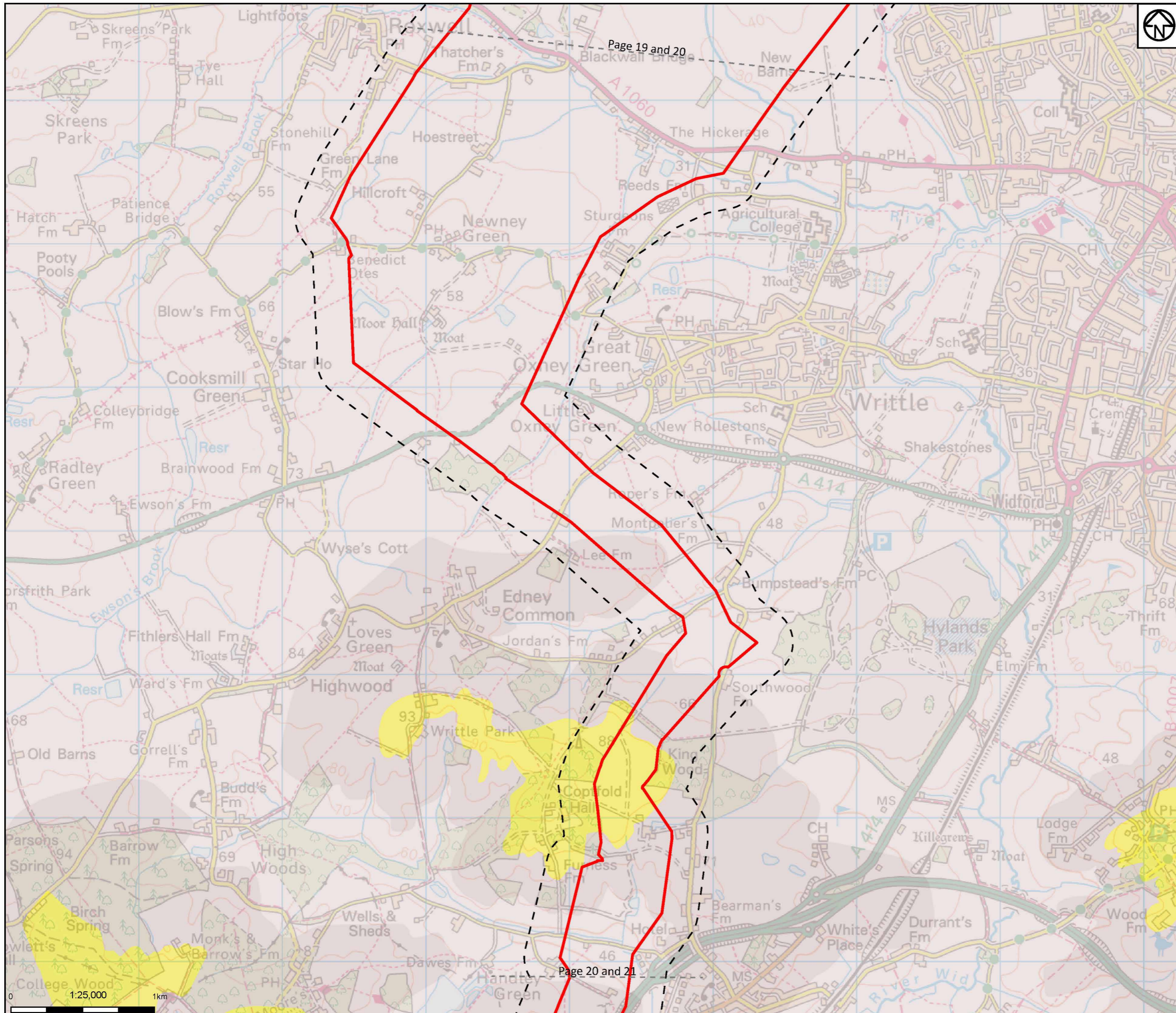
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- London Clay Formation
 - Claygate Member
 - Bagshot Formation

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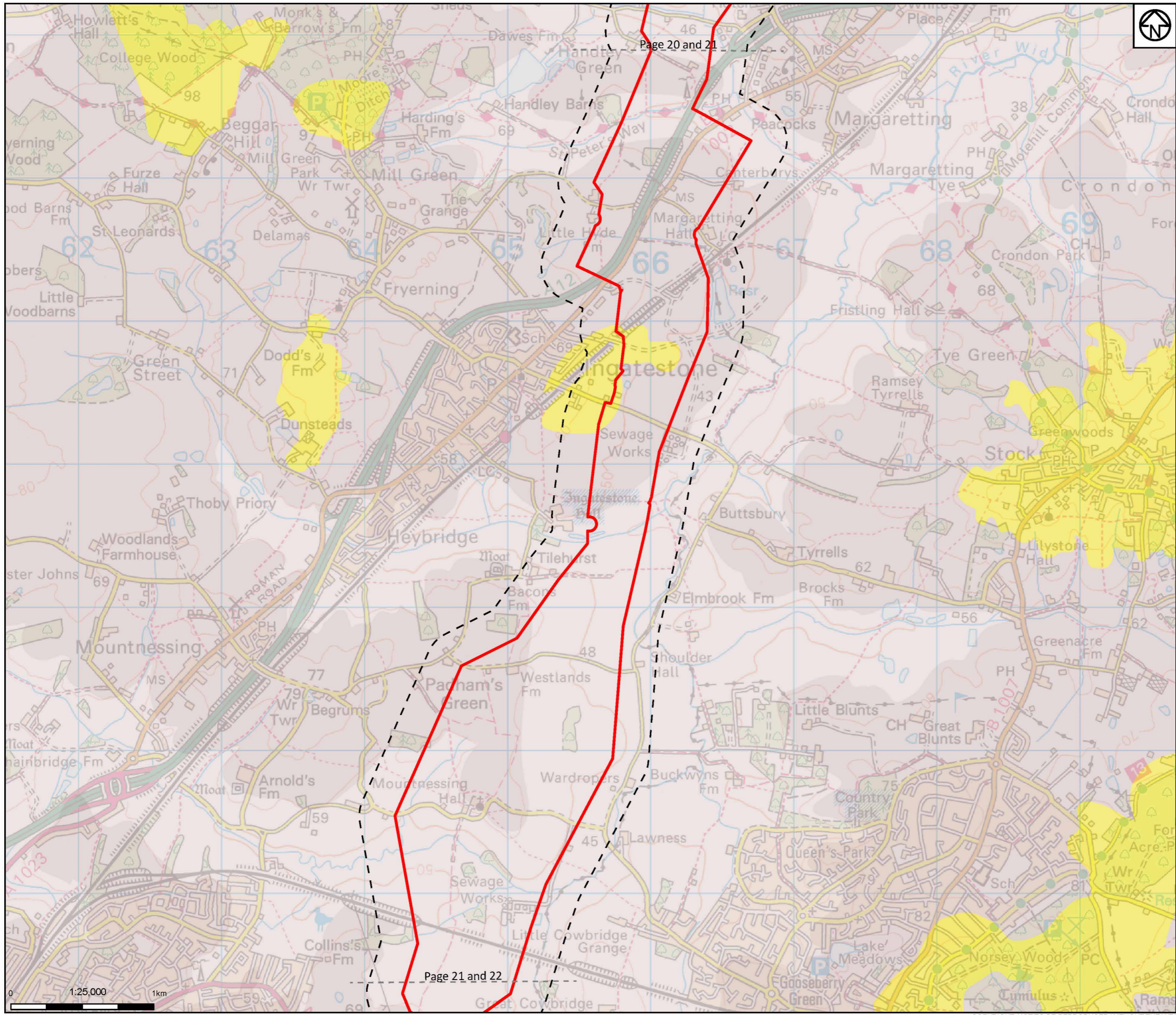
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**Figure 9.2
 Bedrock Geology
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Legend

- Scoping Report Corridor
- Study Area (250m)
- - - - - Cut line

Geology

- London Clay Formation
- Claygate Member
- Bagshot Formation

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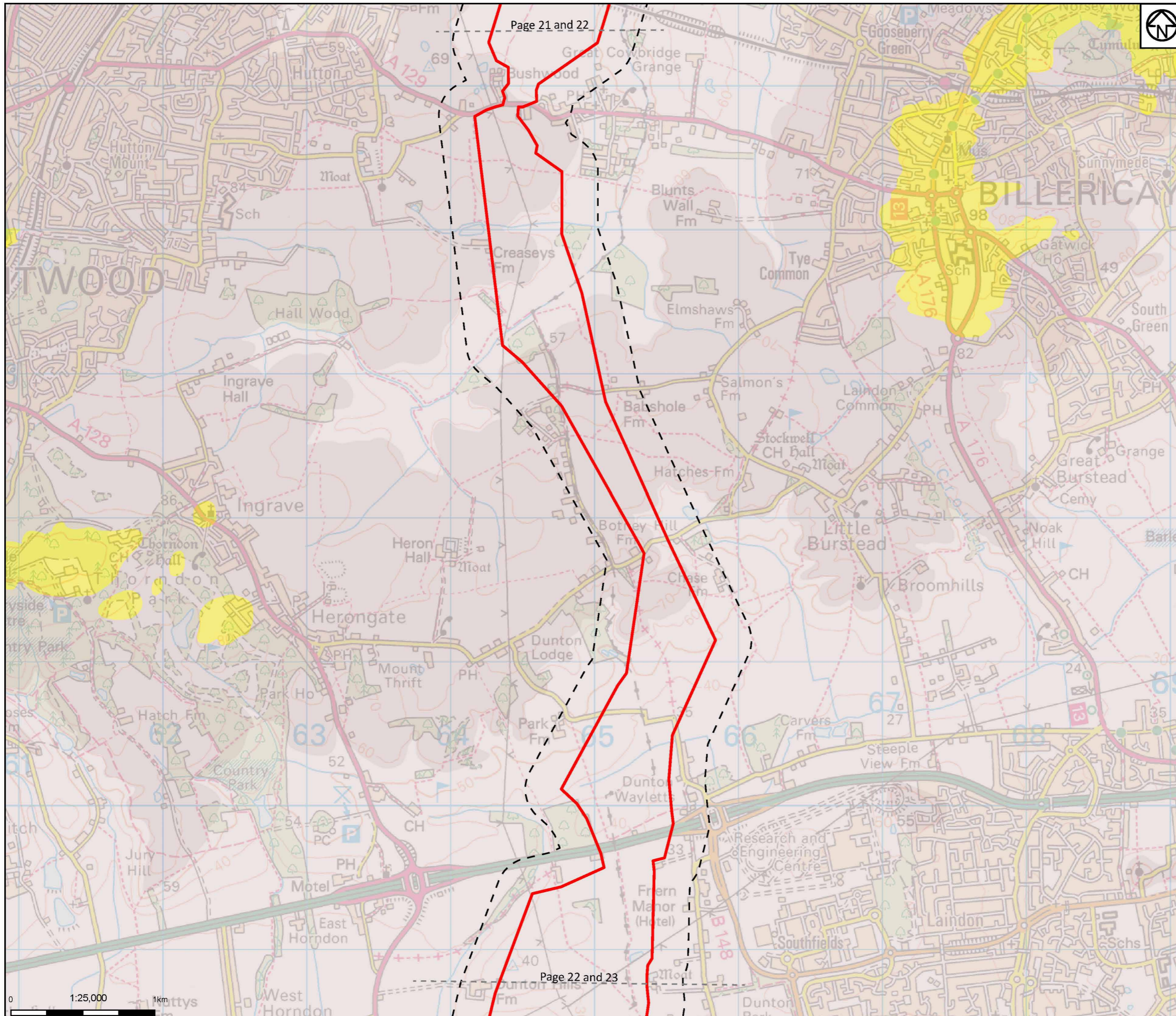
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**Figure 9.2
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Legend

- Scoping Report Corridor
- Study Area (250m)
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Geology

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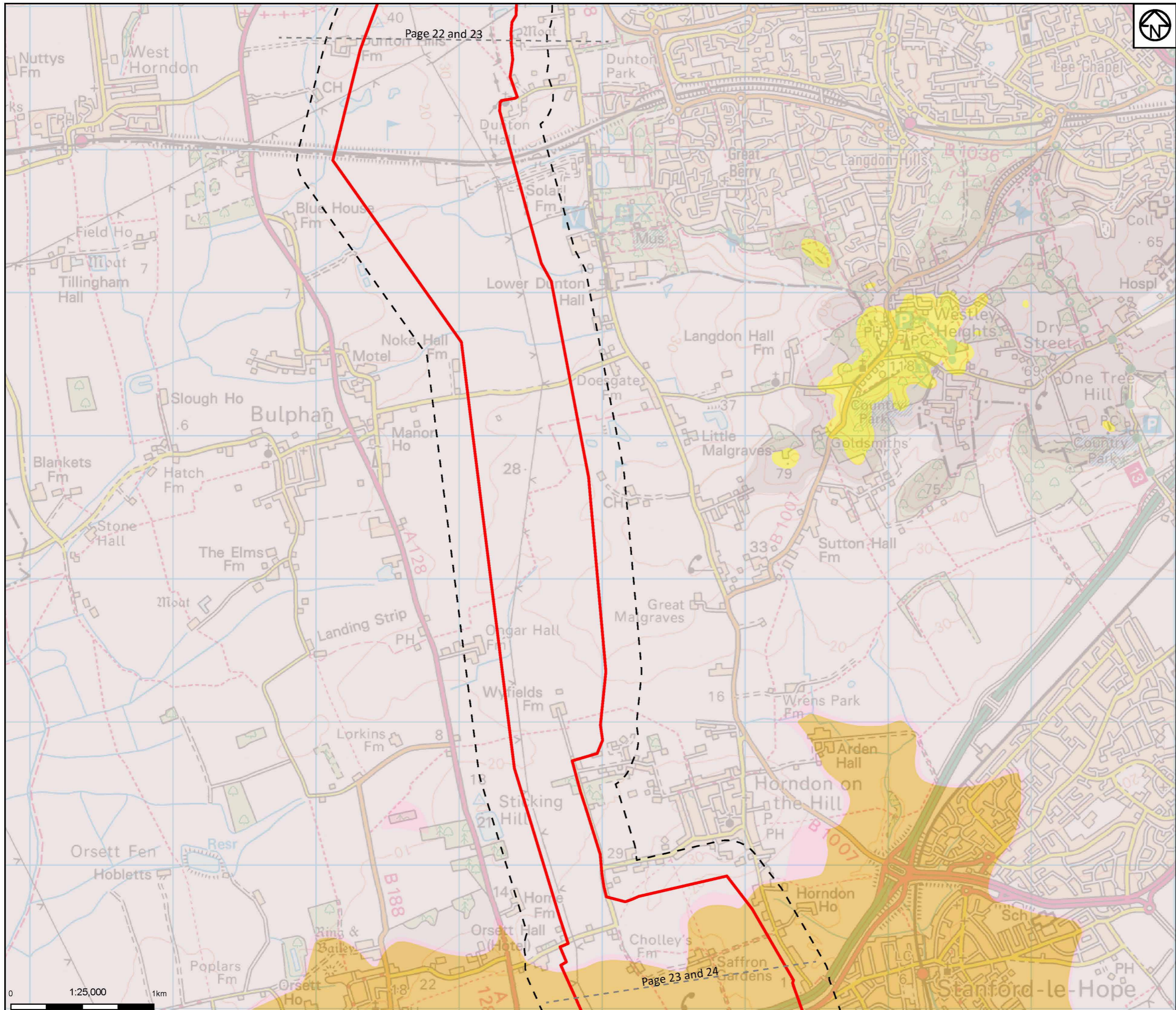
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 Bedrock Geology
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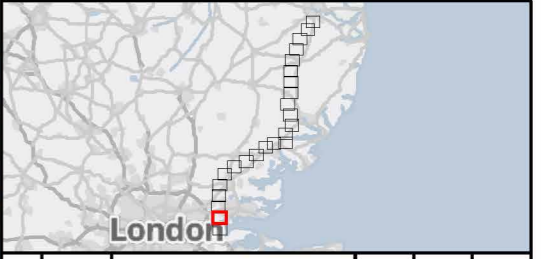
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0 1:25,000 1km



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
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- Geology**
- London Clay Formation
 - Claygate Member
 - Bagshot Formation
 - Lambeth Group
 - Harwich Formation

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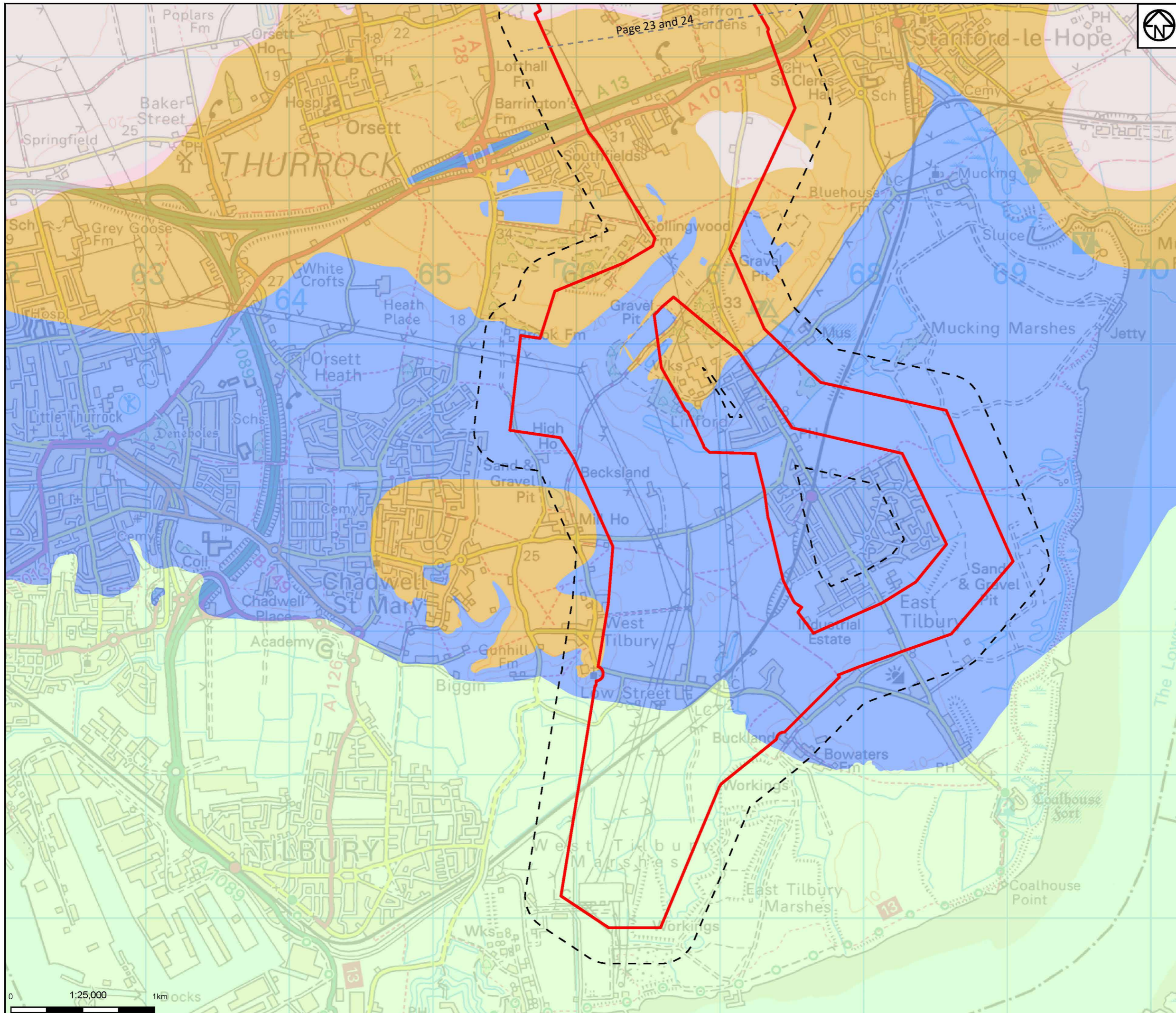
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**Figure 9.2
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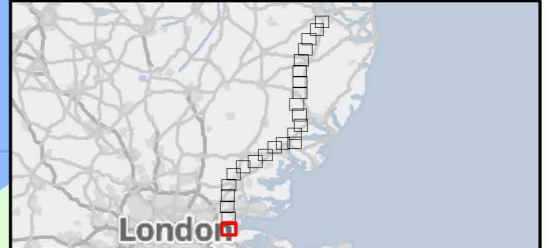
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- Legend**
- Scoping Report Corridor
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 - - - - - Cut line
- Geology**
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 - London Clay Formation
 - Thanet Formation
 - Lambeth Group
 - Harwich Formation
 - Seaford Chalk Formation

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**Figure 9.2
 Bedrock Geology
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