

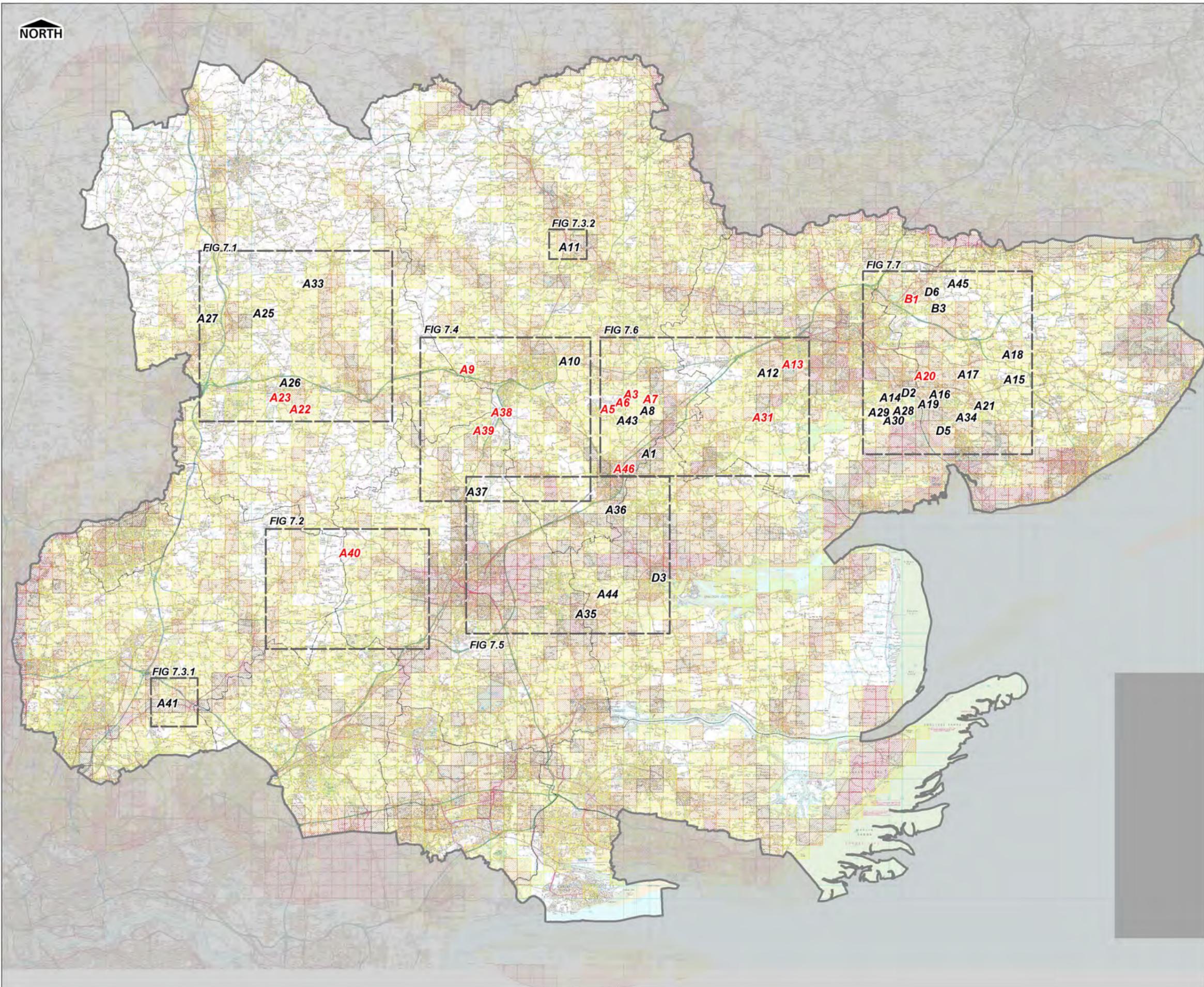
APPENDIX B OVERVIEW FIGURES

Figure 1	Essex County Study Area
Figure 2	Main Rivers
Figure 3.0 – 3.7	EA Flood Zones
Figure 4.0 – 4.7	EA Flood Map for Surface Water (FMfSW)
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Figure 8	Sewer Flooding Records
Figure 9	Flood Warning Areas
Figure 10	Local Flood Risk Management Strategy: Flood Risk Areas

Minerals Sites

Site Ref	Site Name	Figure 3 – Fluvial & Tidal Flood Zones	Figure 4 – Flood Map for Surface Water	Figure 7 – Areas Susceptible to Groundwater Flooding	Mapped in Appendix C
A1	Coleman's Farm, Little Braxted Lane, Witham	Figure 3.6	Figure 4.6	Figure 7.6	✓
A2	Bradwell Quarry, Rivenhall Airfield	Figure 3.6	Figure 4.6	Figure 7.6	✗
A3	Bradwell Quarry, Rivenhall Airfield	Figure 3.6	Figure 4.6	Figure 7.6	✗
A4	Bradwell Quarry, Rivenhall Airfield	Figure 3.6	Figure 4.6	Figure 7.6	✗
A5	Bradwell Quarry, Rivenhall Airfield	Figure 3.6	Figure 4.6	Figure 7.6	✗
A6	Bradwell Quarry, Rivenhall Airfield	Figure 3.6	Figure 4.6	Figure 7.6	✗
A7	Bradwell Quarry, Rivenhall Airfield	Figure 3.6	Figure 4.6	Figure 7.6	✗
A8	Bradwell Quarry, Rivenhall Airfield	Figure 3.6	Figure 4.6	Figure 7.6	✗
A9	Broadfields Farm, Rayne	Figure 3.4	Figure 4.4	Figure 7.4	✓
A10	Covenbrook Hall Farm, Stisted	Figure 3.4	Figure 4.4	Figure 7.4	✗
A11	Tile Kiln, Valley Farm, Sible Hedingham	Figure 3.3.1	Figure 4.3.1	Figure 7.3.1	✗
A12	Bellhouse Farm South	Figure 3.6	Figure 4.6	Figure 7.6	✓
A13	Fiveways Fruit Farm	Figure 3.6	Figure 4.6	Figure 7.6	✗
A14	Holmwood Farm	Figure 3.7	Figure 4.7	Figure 7.7	✗
A15	Admirals Fm, Great Bentley	Figure 3.7	Figure 4.7	Figure 7.7	✗
A16	Church Farm, Alresford	Figure 3.7	Figure 4.7	Figure 7.7	✓
A17	Frating Hall Farm, Frating	Figure 3.7	Figure 4.7	Figure 7.7	✗
A18	Gurnhams, Little Bentley	Figure 3.7	Figure 4.7	Figure 7.7	✓
A19	Lodge Farm, Alresford	Figure 3.7	Figure 4.7	Figure 7.7	✗
A20	Sunnymead, Elmstead & Heath Farms, Alresford	Figure 3.7	Figure 4.7	Figure 7.7	✓
A21	Thorrington Hall Farm, Thorrington	Figure 3.7	Figure 4.7	Figure 7.7	✓
A22	Little Bullocks Farm, Canfield – Area A	Figure 3.1	Figure 4.1	Figure 7.1	✓
A23	Little Bullocks Farm, Canfield – Area B	Figure 3.1	Figure 4.1	Figure 7.1	✗
A25	Elsenham Quarry, Elsenham	Figure 3.1	Figure 4.1	Figure 7.1	✗
A26	Frogs Hall, Takeley	Figure 3.1	Figure 4.1	Figure 7.1	✓
A27	Land at Ugley, Ugley	Figure 3.1	Figure 4.1	Figure 7.1	✓
A28	Tower Field Western Extension, Fingringhoe	Figure 3.7	Figure 4.7	Figure 7.7	✗
A29	30 Acre Field West, Fingringhoe	Figure 3.7	Figure 4.7	Figure 7.7	✗

A30	30 Acre Field South, Fingringhoe	Figure 3.7	Figure 4.7	Figure 7.7	✘
A31	Birch Extraction, Colchester	Figure 3.6	Figure 4.6	Figure 7.6	✓
A33	Armigers Farm	Figure 3.1	Figure 4.1	Figure 7.1	✘
A34	Thorrington Hall Farm	Figure 3.7	Figure 4.7	Figure 7.7	✓
A35	Tyndales Farm, Danbury	Figure 3.5	Figure 4.5	Figure 7.5	✘
A36	Olivers Nurseries	Figure 3.5	Figure 4.5	Figure 7.5	✘
A37	Alsteads Farm	Figure 3.4	Figure 4.4	Figure 7.4	✘
A38	Blackley Quarry, Gate Farm Site 1	Figure 3.4	Figure 4.4	Figure 7.4	✘
A39	Blackley Quarry, Gate Farm, Site 2	Figure 3.4	Figure 4.4	Figure 7.4	✘
A40	Shellow Cross Farm	Figure 3.2	Figure 4.2	Figure 7.2	✓
A41	Patch Park Farm	Figure 3.3.1	Figure 4.3.1	Figure 7.3.1	✓
A43	Parkgate Farm West	Figure 3.6	Figure 4.6	Figure 7.6	✘
A44	White House Farm	Figure 3.5	Figure 4.5	Figure 7.5	✓
A45	Ardleigh Site A	Figure 3.7	Figure 4.7	Figure 7.7	✓
A46	Colemans Farm	Figure 3.6	Figure 4.6	Figure 7.6	✓
B1	Slough Fm, Ardleigh - Area 1	Figure 3.7	Figure 4.7	Figure 7.7	✘
B3	Slough Fm, Ardleigh - Area 3	Figure 3.7	Figure 4.7	Figure 7.7	✘
D2	Ballast Quay, Fingringhoe	Figure 3.7	Figure 4.7	Figure 7.7	✓
D3	Sadds Wharf, Maldon	Figure 3.5	Figure 4.5	Figure 7.5	✓
D5	Brightlingsea Quarry Wharf	Figure 3.7	Figure 4.7	Figure 7.7	✓
D6	Ardleigh Transhipment Site	Figure 3.7	Figure 4.7	Figure 7.7	✘



LEGEND

Essex County Boundary

A123 Non-Selected Site

A123 Preferred Site

Areas Susceptible to Groundwater Flooding (AStGWf)
Proportion of 1km square that is susceptible to groundwater flood emergence (%)

- <25%
- 25 - 50%
- 50 - 75%
- >75%

USER NOTE

AStGWf is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring. In common with the majority of datasets showing areas which may experience groundwater emergence, this dataset covers a large area of land, and only isolated locations within the overall susceptible area are likely to suffer the consequences of groundwater flooding. The data should not be interpreted as identifying areas where groundwater is actually likely to flow or pond, thus causing flooding, but may be of use to LLFAs in identifying where, for example, further studies may be useful.

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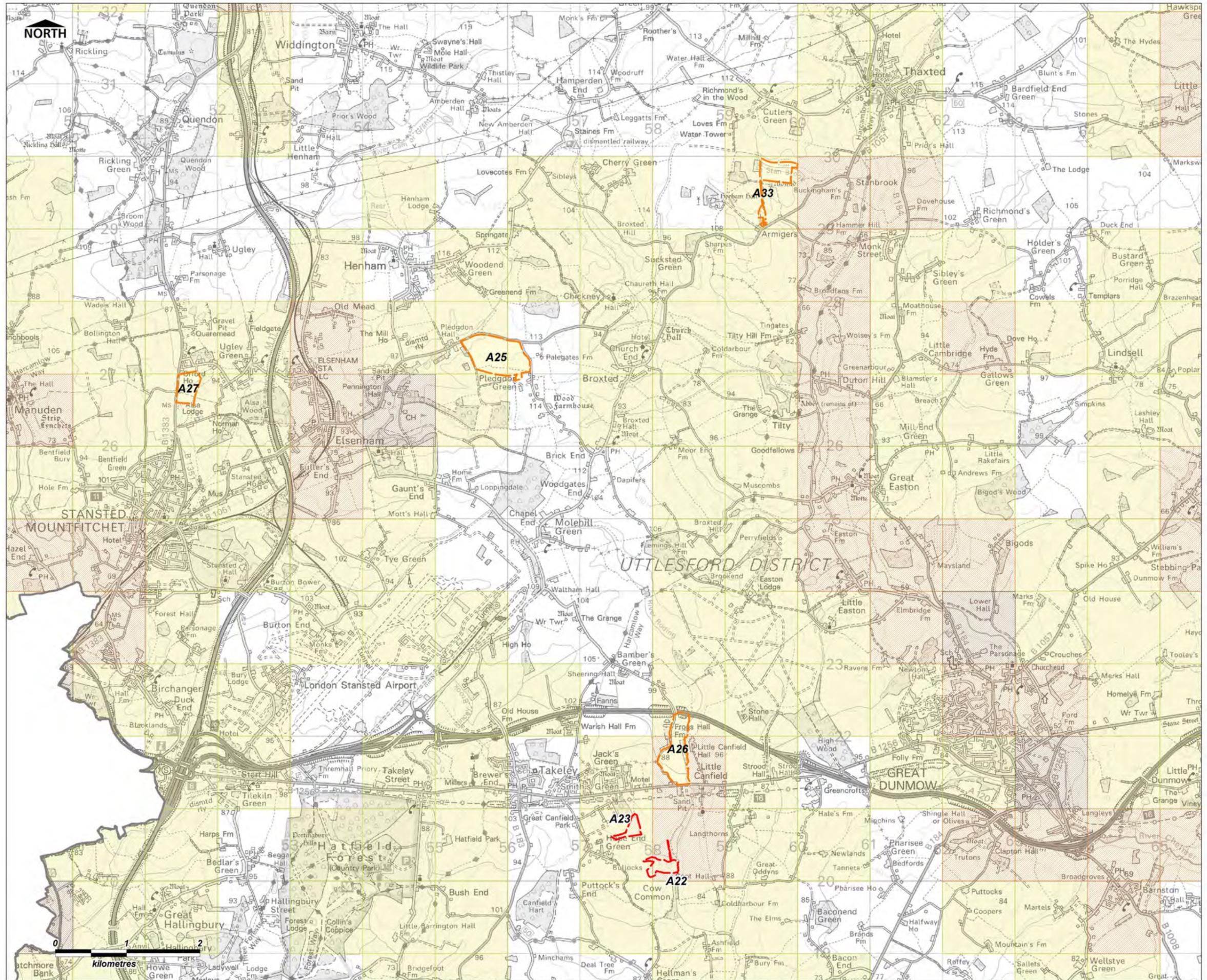
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LEGEND

-  Essex County Boundary
-  Non-Selected Site
-  Preferred Site

Areas Susceptible to Groundwater Flooding (AS_TGW_F)

Proportion of 1km square that is susceptible to groundwater flood emergence (%)

-  <25%
-  25 - 50%
-  50 - 75%
-  >75%

USER NOTE

AS_TGW_F is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater flooding. It does not show the likelihood of groundwater flooding occurring. In common with the majority of datasets showing areas which may experience groundwater emergence, this dataset covers a large area of land, and only isolated locations within the overall susceptible area are likely to suffer the consequences of groundwater flooding. The data should not be interpreted as identifying areas where groundwater is actually likely to flow or pond, thus causing flooding, but may be of use to LLFAs in identifying where, for example, further studies may be useful.

OVERVIEW MAP



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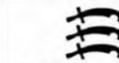
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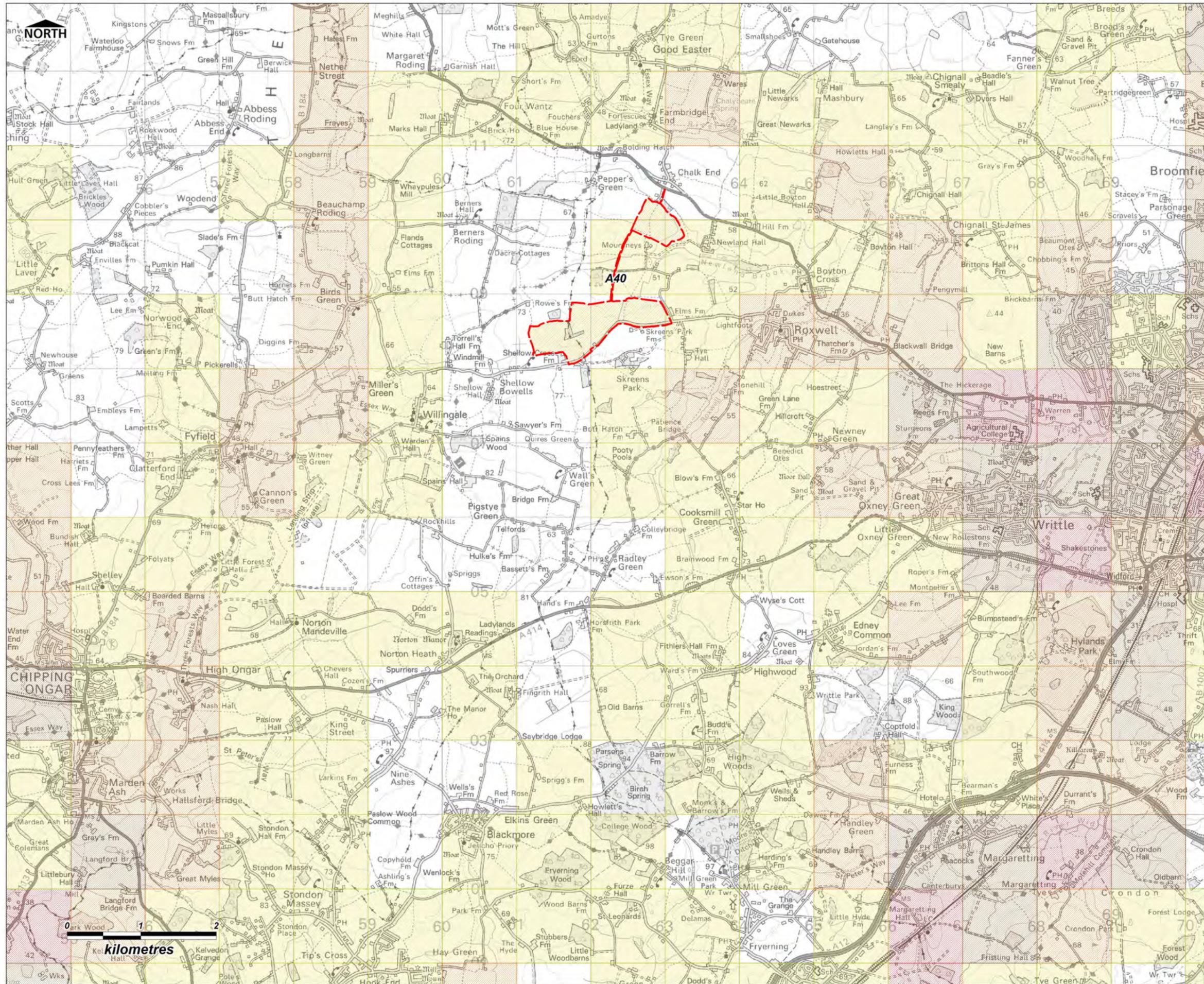
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FIGURE 7.1



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Areas Susceptible to Groundwater Flooding (AS_TGW_F)
 Proportion of 1km square that is susceptible to groundwater flood emergence (%)

- <25%
- 25 - 50%
- 50 - 75%
- >75%

USER NOTE

AS_TGW_F is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring.

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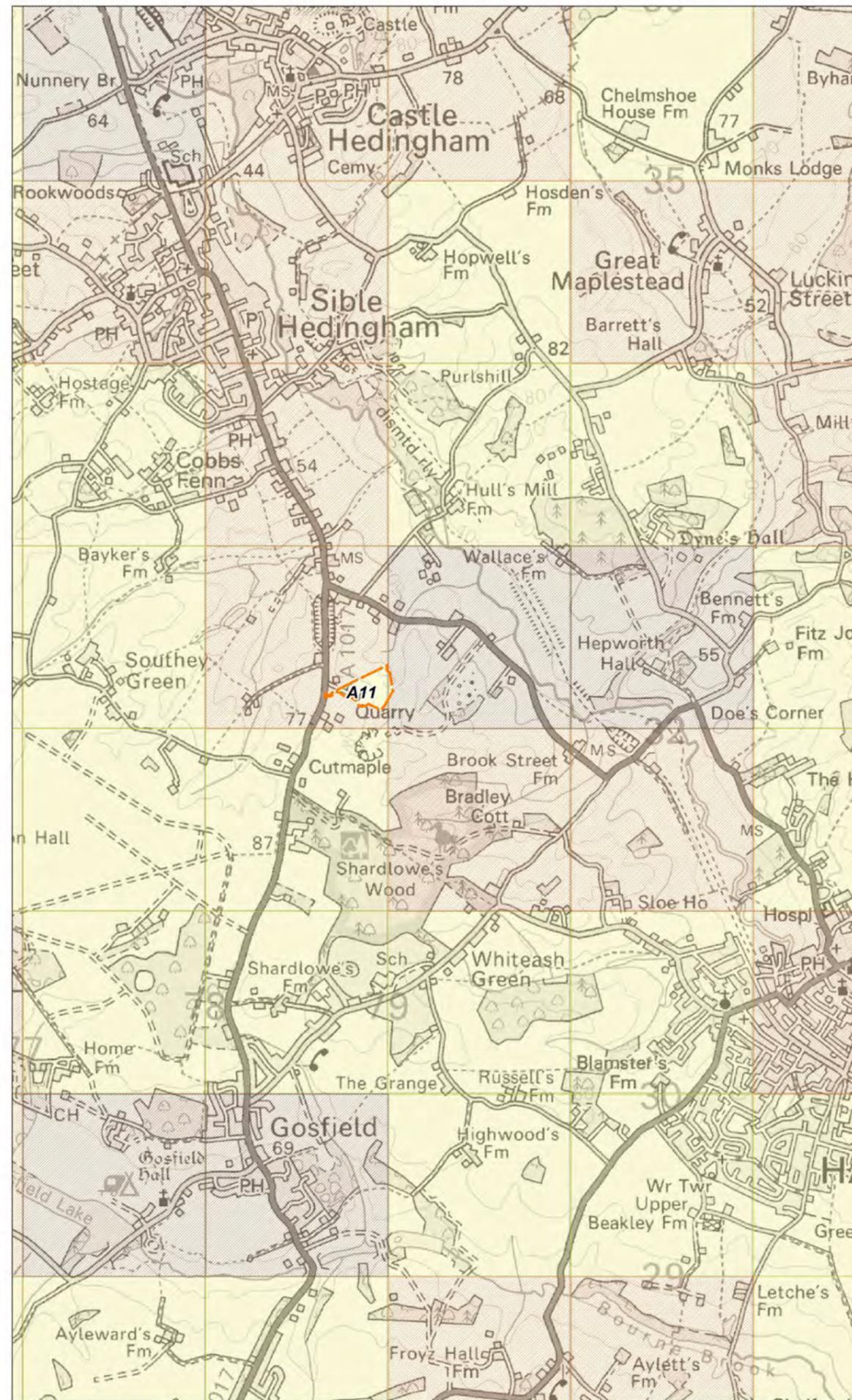
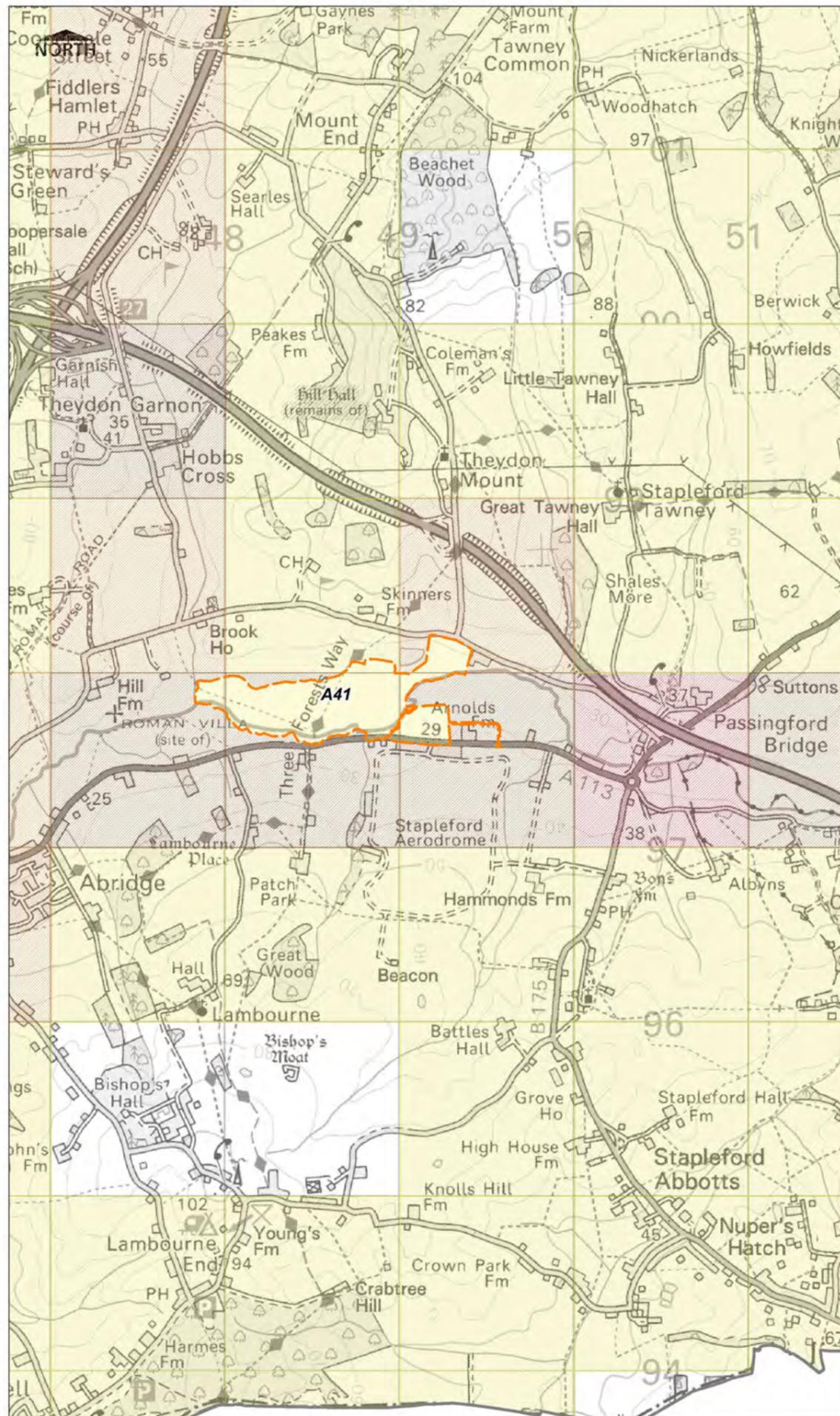
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FIGURE 7.2



LEGEND

- Essex County Boundary
- Non-Selected Site
- Preferred Site

Areas Susceptible to Groundwater Flooding (AStGWF)
Proportion of 1km square that is susceptible to groundwater flood emergence (%)

- <25%
- 25 - 50%
- 50 - 75%
- >75%

USER NOTE

AStGWF is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring.

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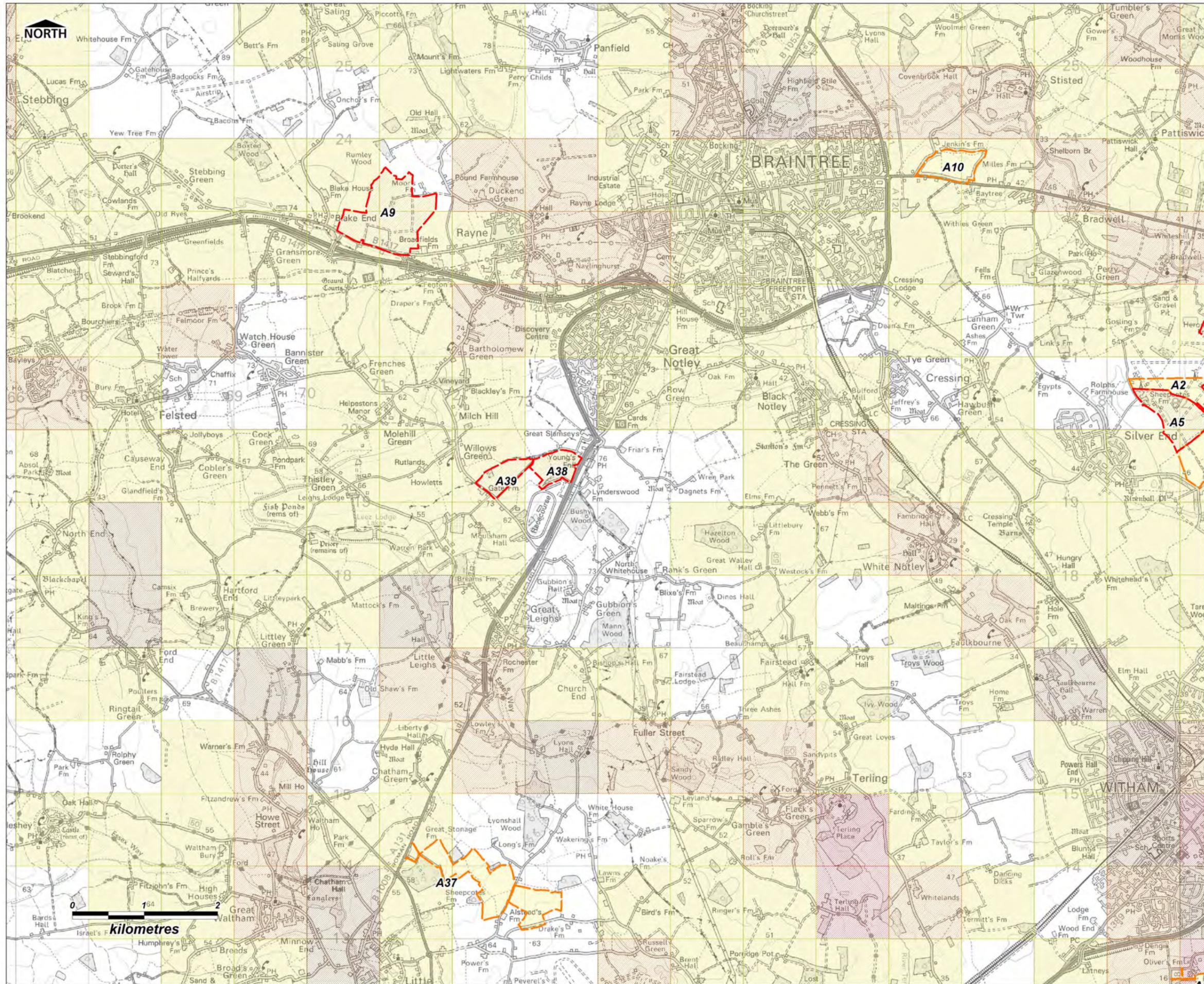
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FIGURE 7.3



LEGEND

- Essex County Boundary
- Non-Selected Site
- Preferred Site

Areas Susceptible to Groundwater Flooding (AStGWF)
Proportion of 1km square that is susceptible to groundwater flood emergence (%)

- <25%
- 25 - 50%
- 50 - 75%
- >75%

USER NOTE

AStGWF is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring. In common with the majority of datasets showing areas which may experience groundwater emergence, this dataset covers a large area of land, and only isolated locations within the overall susceptible area are likely to suffer the consequences of groundwater flooding. The data should not be interpreted as identifying areas where groundwater is actually likely to flow or pond, thus causing flooding, but may be of use to LLFAs in identifying where, for example, further studies may be useful.



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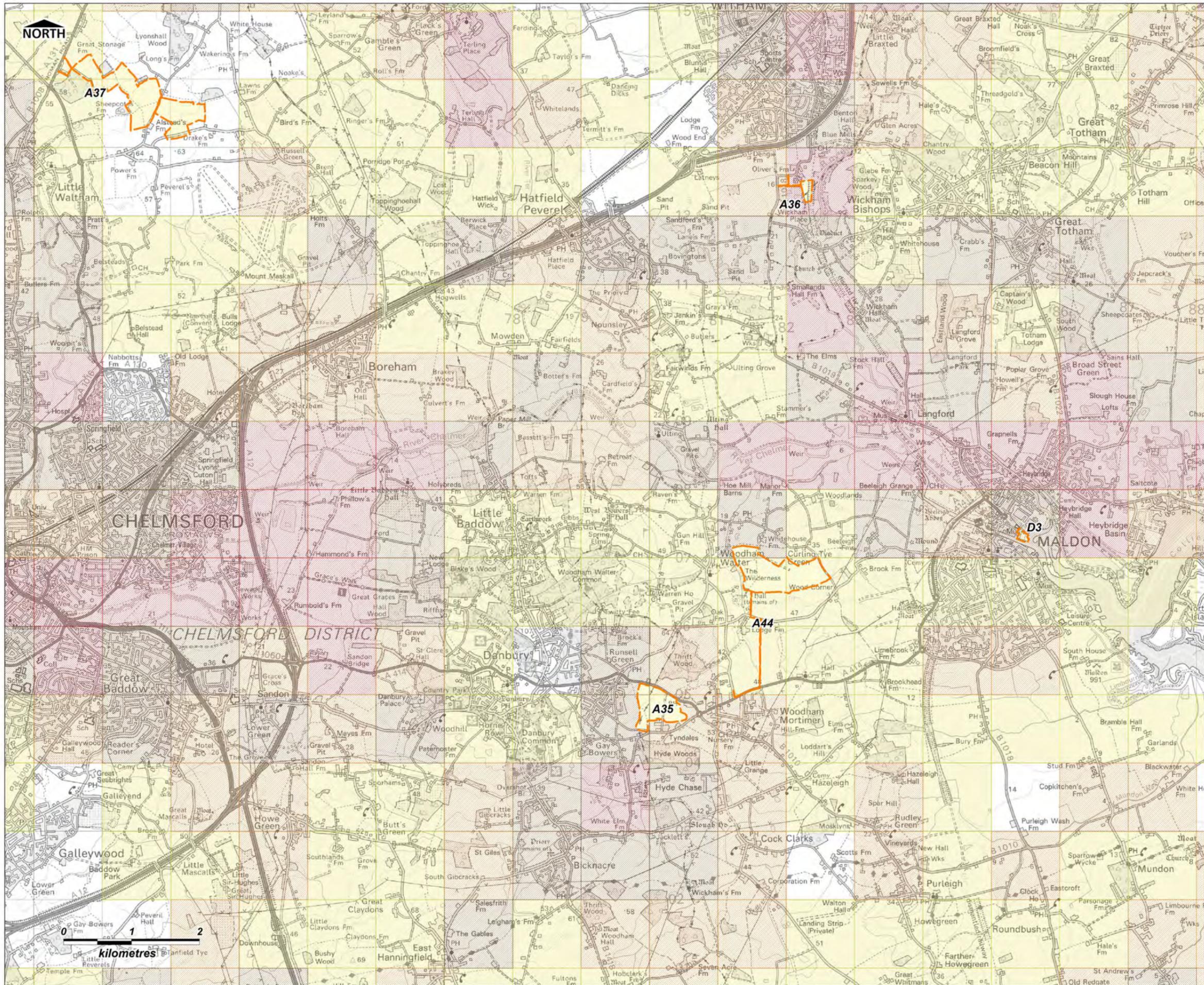
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FIGURE 7.4



LEGEND

- Essex County Boundary
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- Preferred Site

Areas Susceptible to Groundwater Flooding (ASTGWF)
Proportion of 1km square that is susceptible to groundwater flood emergence (%)

- <25%
- 25 - 50%
- 50 - 75%
- >75%

USER NOTE

ASTGWF is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring.

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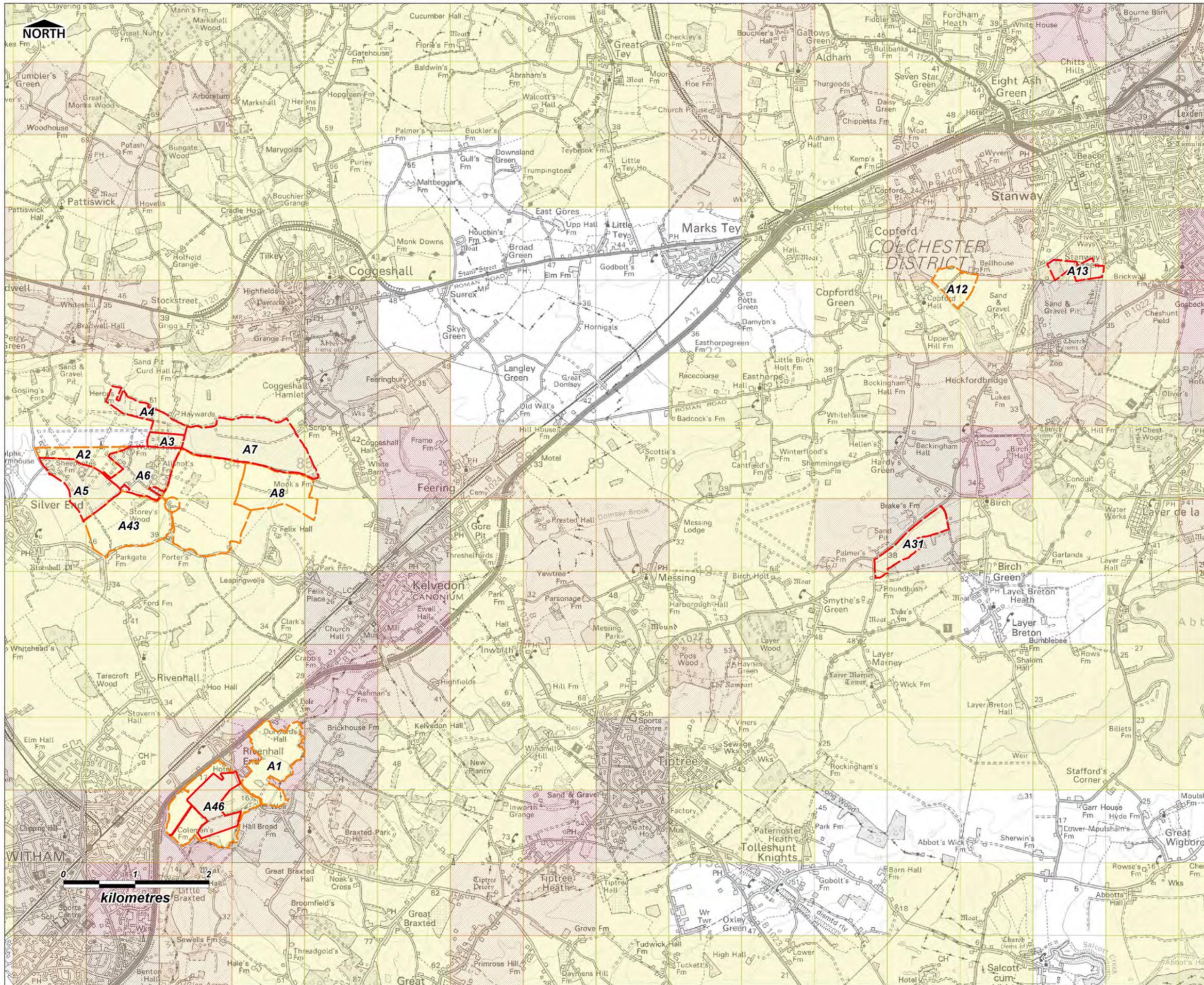
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FIGURE 7.5



LEGEND

- Essex County Boundary
- Non-Selected Site
- Preferred Site

Areas Susceptible to Groundwater Flooding (AStGW)
Proportion of 1km square that is susceptible to groundwater flood emergence (%)

- <25%
- 25 - 50%
- 50 - 75%
- >75%

USER NOTE

AStGW is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring.

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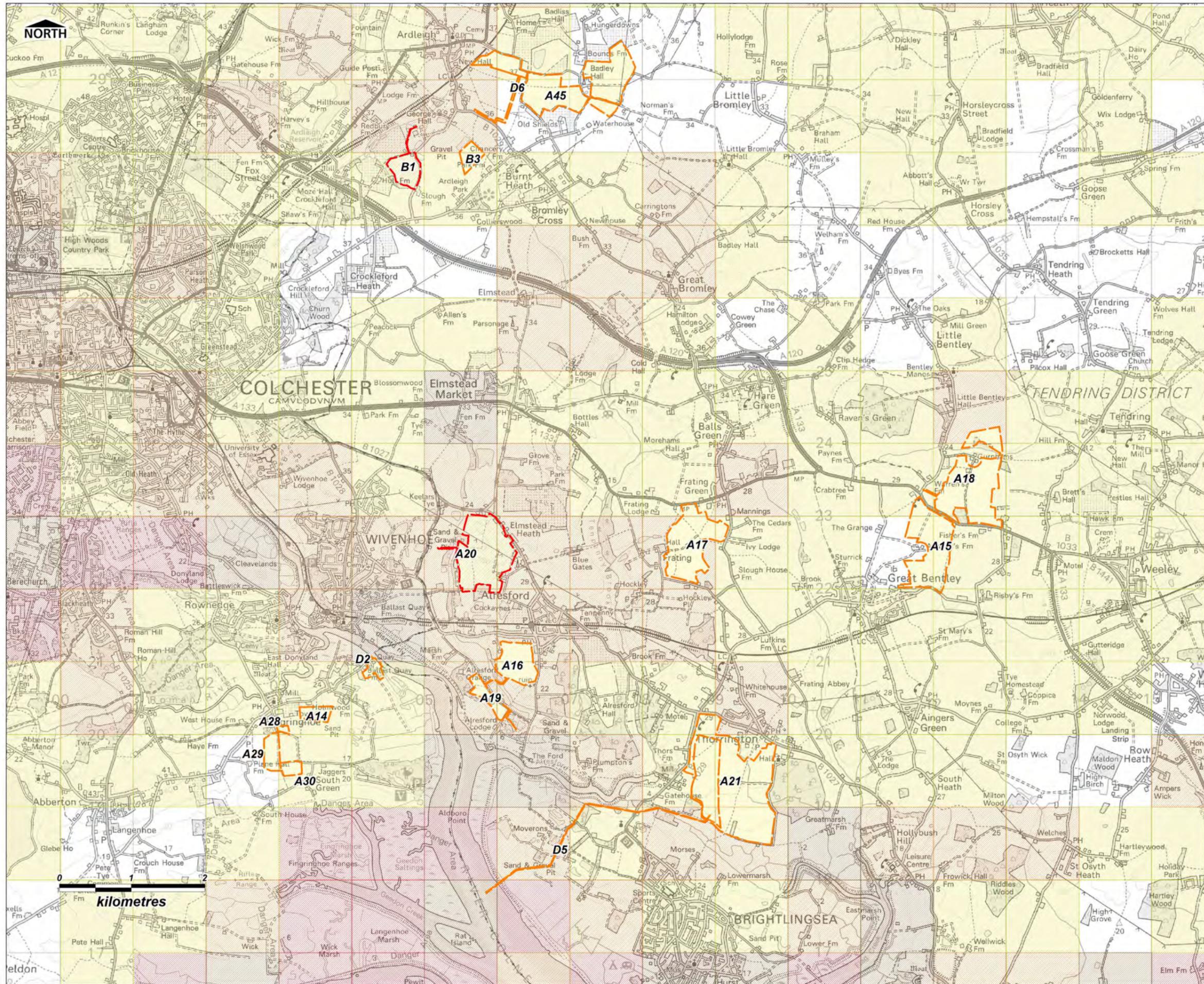
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FIGURE 7.6



LEGEND

- Essex County Boundary
- Non-Selected Site
- Preferred Site

Areas Susceptible to Groundwater Flooding (AStGWF)
Proportion of 1km square that is susceptible to groundwater flood emergence (%)

- <25%
- 25 - 50%
- 50 - 75%
- >75%

USER NOTE

AStGWF is a strategic scale map showing groundwater flood areas on a 1km square grid. It was developed specifically by the EA for use by LLFAs for use in PFRAs as required under the Flood Risk Regulations and so that LLFAs can obtain a broad feel for the wider areas which might be at risk from groundwater flooding. This data has used the top two susceptibility bands of the BGS 1:50,000 Groundwater Flood Susceptibility Map and thus covers consolidated aquifers and superficial deposits. It does not take account of the chance of flooding from groundwater rebound. It shows the proportion of each 1km grid square where geological and hydrogeological conditions show that groundwater might emerge. The susceptible areas are represented by one of four area categories showing the proportion of each 1km square that is susceptible to groundwater emergence. It does not show the likelihood of groundwater flooding occurring.

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