

Outer Dowsing Offshore Wind

Environmental Statement

Chapter 23 Geology and Ground Conditions

Volume 2 Figures

Date: March 2024

Document Reference: 6.2.23

Pursuant to APFP Regulation: 5(2)(a)

Rev: 1.0

Company:	Outer Dowsing Offshore Wind	Asset:	Whole Asset			
Project:	Whole Wind Farm	Sub Project/Package:	Whole Asset			
Document Title or Description:	Chapter 23 Geology and Ground Conditions					
Internal Document Number:	PP1-ODOW-DEV-CS-FIG-0023	3 rd Party Doc No (If applicable):	N/A			
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Rev No.	Date	Status / Reason for Issue	Author	Checked by	Reviewed by	Approved by
1.0	March 2024	DCO Application	Outer Dowsing	SLR	Shepherd and Wedderburn	Outer Dowsing

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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer
- Onshore Substation (OnSS) Footprint
- Landfall Trenchless Works
- Transition Joint Bay Area
- Connection Area



Coordinate System: British National Grid

0 5 10 km

Scale: 1:200,000

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Study Area and ECC Route Segments

Figure 23.1

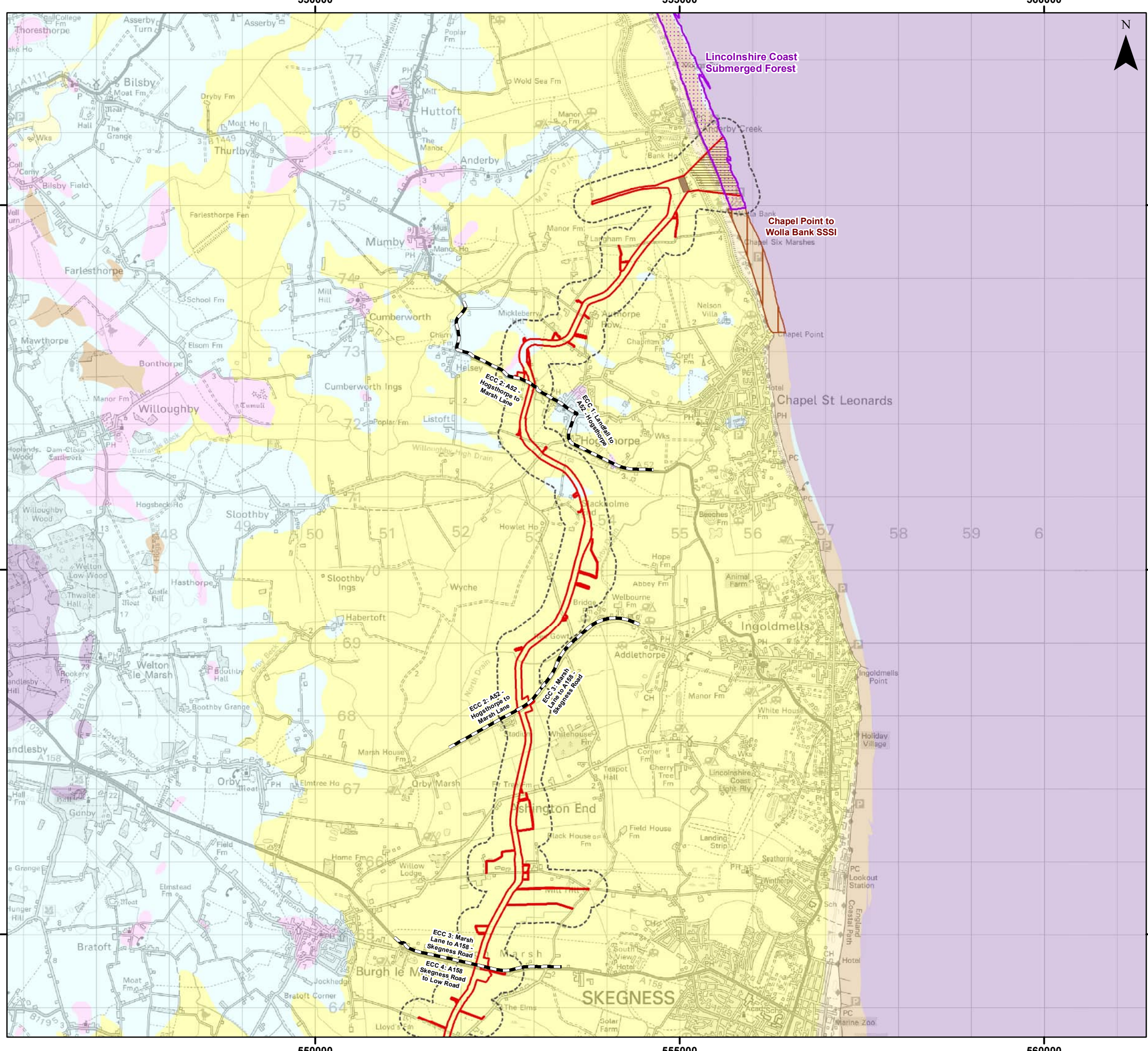


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Document Path: P:\05356 - Gobe Consultants Ltd\0012 GTR4 Outer Dowsing\Tech\GIS\DWG\Wing\2023_09 Environmental Statement\Geology and Ground Conditions\Chapter\05356_00012_0736_0 Study Area and ECC Route Segments.mxd



Legend

- Order Limits
- Onshore Segment Break
- Landfall Trenchless Works
- Transition Joint Bay
- Order Limits 250 m Buffer
- Site of Special Scientific Interest (SSSI) Cited for Geological Features
- Local Geological Site

Superficial Deposits

- Alluvium - Clay, Silt, Sand And Gravel
- Beach And Tidal Flat Deposits - Clay, Silt And Sand
- Bedrock at or Near Surface
- Blown Sand – Sand
- Glaciofluvial Deposits, Devensian - Sand And Gravel
- Peat – Peat
- Tidal Flat Deposits - Clay, Silt And Sand
- Till, Devensian – Diamicton

Sources:
 Superficial Geology data obtained via BGS WMS. British Geological Survey © NERC. All Rights Reserved.



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Superficial Geology

Figure 23.2.1



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OFFSHORE WIND

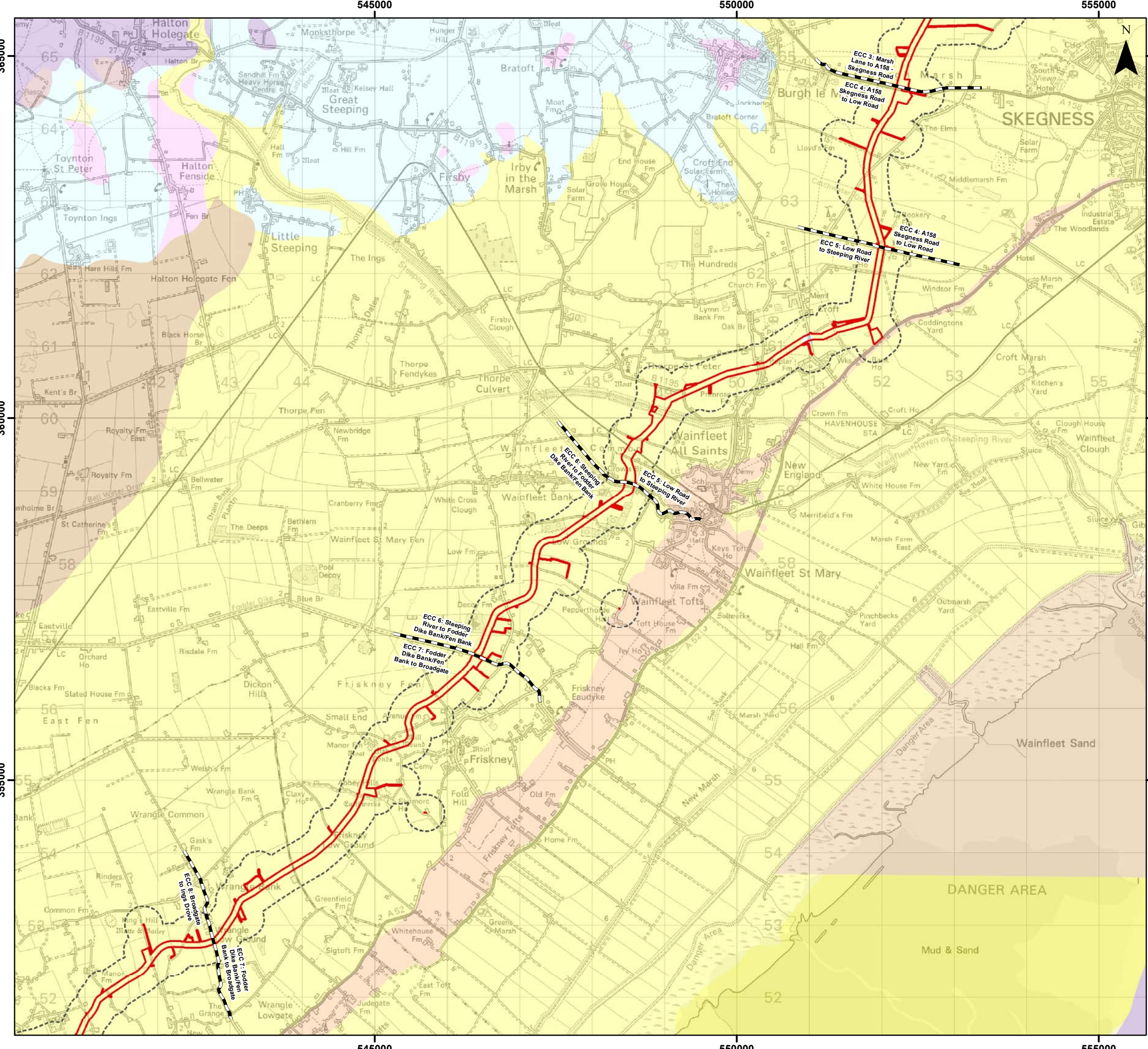


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- ### Legend
- Order Limits
 - Onshore Segment Break
 - Order Limits 250 m Buffer
- #### Superficial Deposits
- Bank Deposits – Sand
 - Beach And Tidal Flat Deposits - Clay, Silt And Sand
 - Bedrock at or Near Surface
 - Blown Sand – Sand
 - Glaciofluvial Deposits, Devensian - Sand And Gravel
 - Peat – Peat
 - Storm Beach Deposits - Sand And Gravel
 - Storm Beach Deposits - Sand And Silt
 - Tidal Flat Deposits - Clay And Silt
 - Till, Devensian – Diamicton

Sources:
Superficial Geology data obtained via BGS WMS. British Geological Survey © NERC. All Rights Reserved.



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Environmental Statement
 Superficial Geology
 Figure 23.2.2

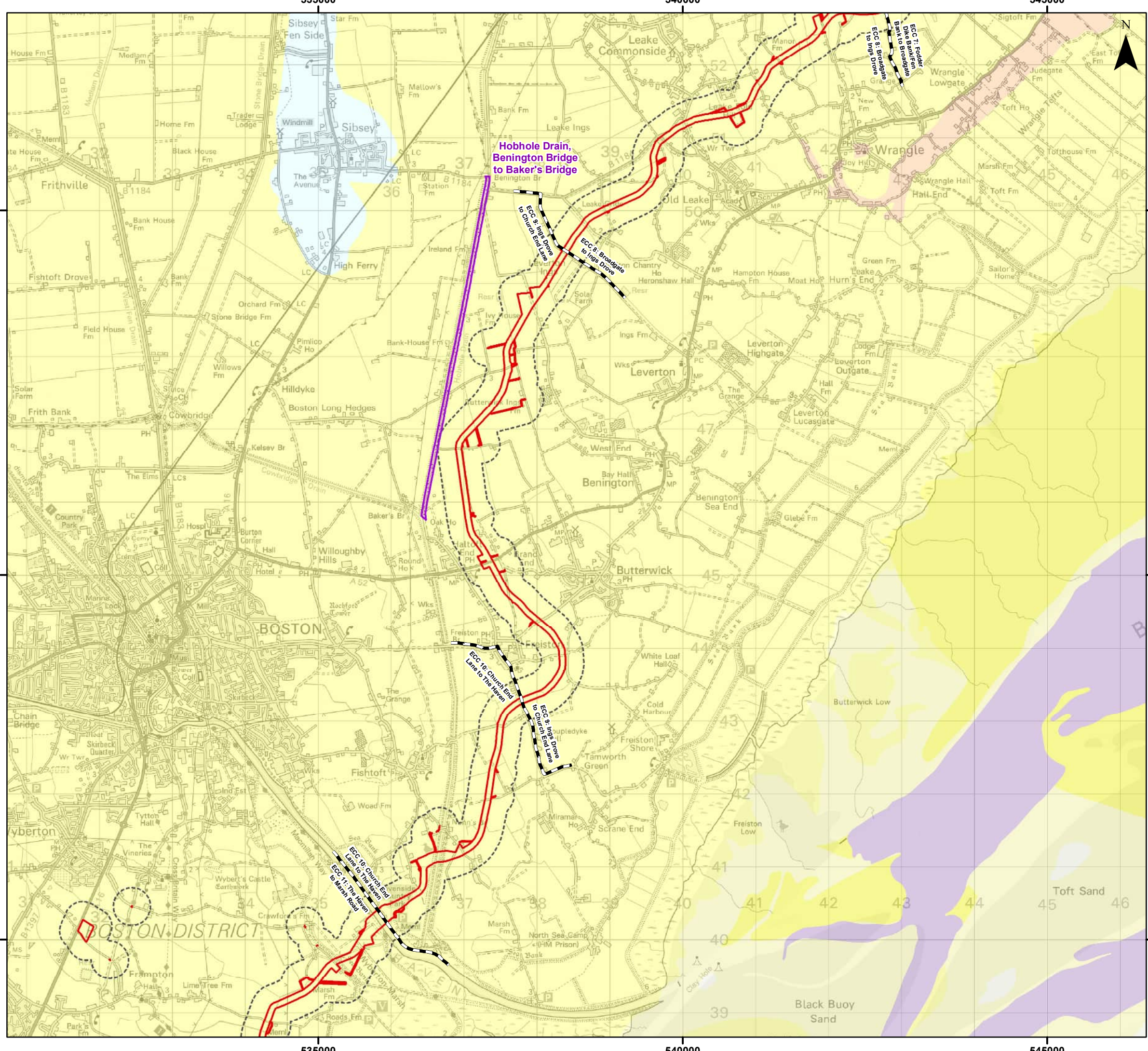


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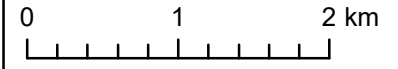
Legend

- Order Limits
 - Onshore Segment Break
 - Order Limits 250 m Buffer
 - Local Geological Site
- Superficial Deposits**
- Bank Deposits – Sand
 - Bedrock at or Near Surface
 - Blown Sand – Sand
 - Intertidal Deposits - Sand, Silt And Clay
 - Shell Bank - Sediment, Shell (Shells)
 - Storm Beach Deposits - Sand And Silt
 - Tidal Flat Deposits - Clay And Silt
 - Tidal Flat Deposits, 1 - Clay And Silt
 - Till, Devensian – Diamicton

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Superficial Geology

Figure 23.2.3

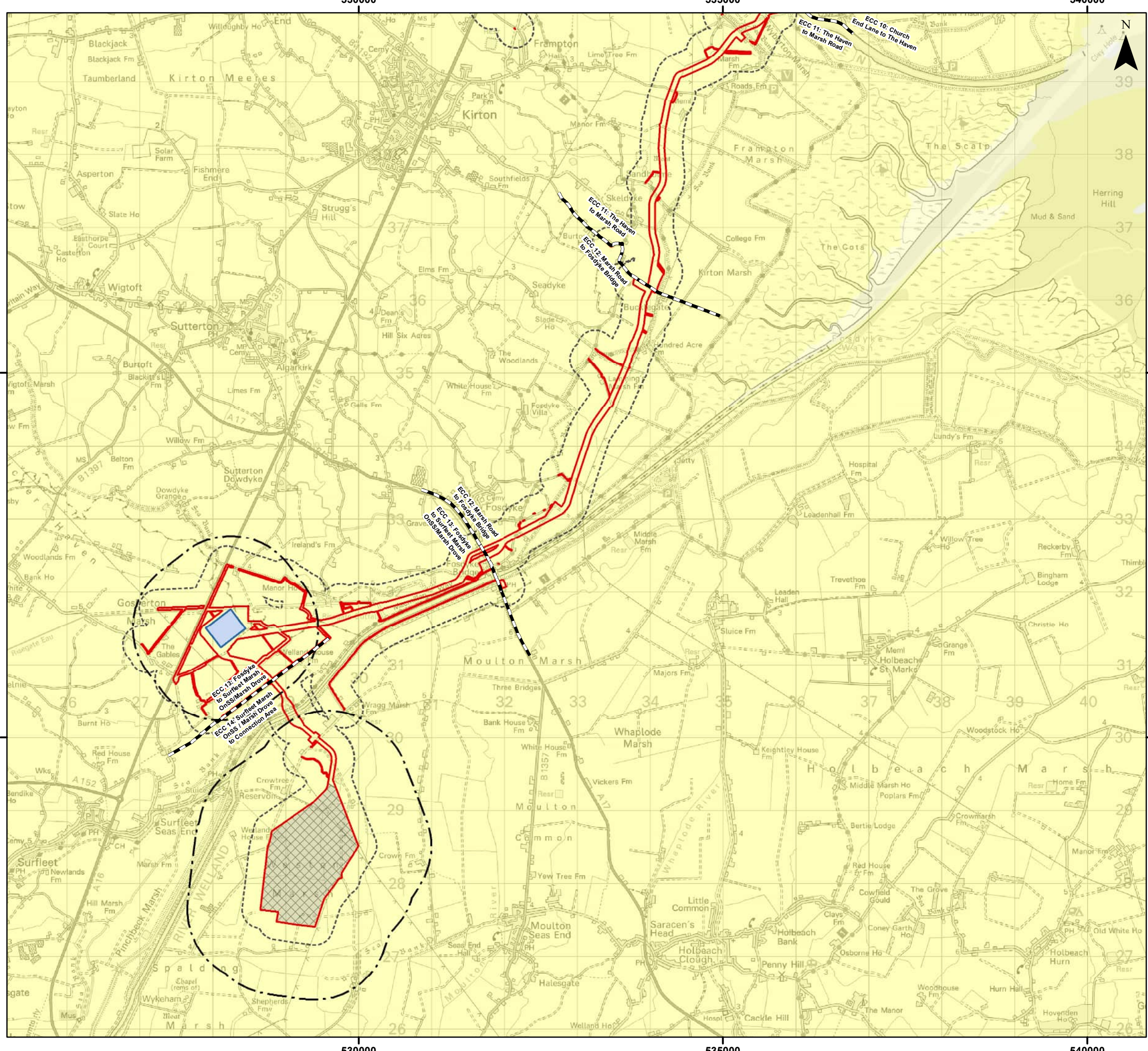


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Legend

- Order Limits
- Onshore Segment Break
- Onshore Substation (OnSS) Footprint
- Connection Area
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer

Superficial Deposits

- Intertidal Deposits - Sand, Silt And Clay
- Shell Bank - Sediment, Shell (Shells)
- Tidal Flat Deposits - Clay And Silt
- Tidal Flat Deposits - Clay, Silt And Sand

Sources:
 Superficial Geology data obtained via BGS WMS. British Geological Survey © NERC. All Rights Reserved.



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Environmental Statement
 Superficial Geology
 Figure 23.2.4

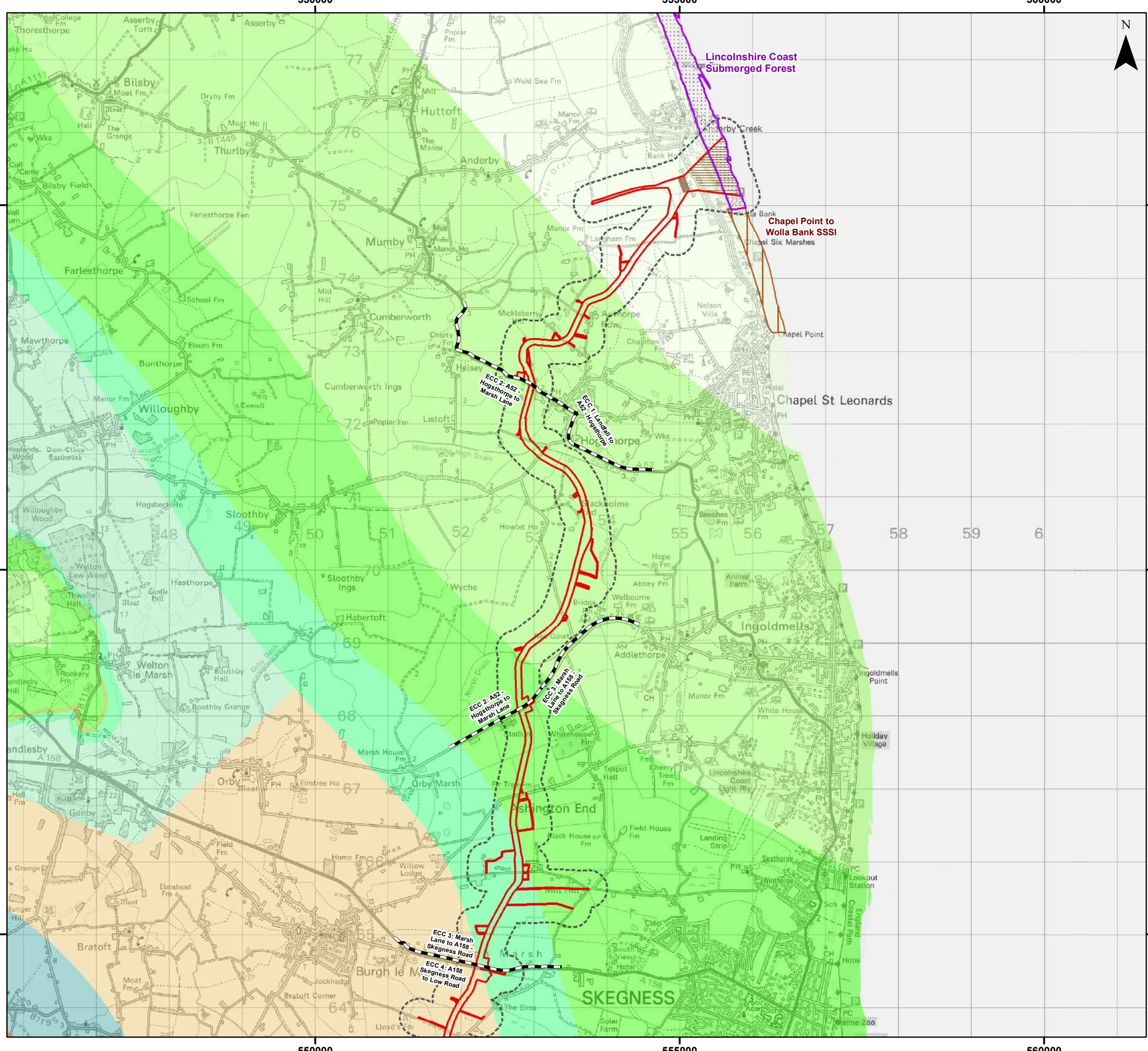


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Legend

- Order Limits
- Onshore Segment Break
- Landfall Trenchless Works
- Transition Joint Bay
- Order Limits 250 m Buffer
- Site of Special Scientific Interest (SSSI) Cited for Geological Features
- Local Geological Site

Sedimentary Bedrock

- Burnham Chalk Formation – Chalk
- Welton Chalk Formation – Chalk
- Ferriby Chalk Formation – Chalk
- Hunstanton Formation – Chalk
- Carstone Formation – Sandstone
- Roach Formation - Mudstone And Limestone, Interbedded
- Claxby Ironstone Formation, Tealby Formation And Roach Formation - Mudstone And Limestone, Interbedded
- Spilby Sandstone Formation – Sandstone

Cretaceous
Jurassic

Sources:
Bedrock Geology data obtained via BGS WMS. British Geological Survey © NERC. All Rights Reserved.



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Environmental Statement

Bedrock Geology

Figure 23.3.1

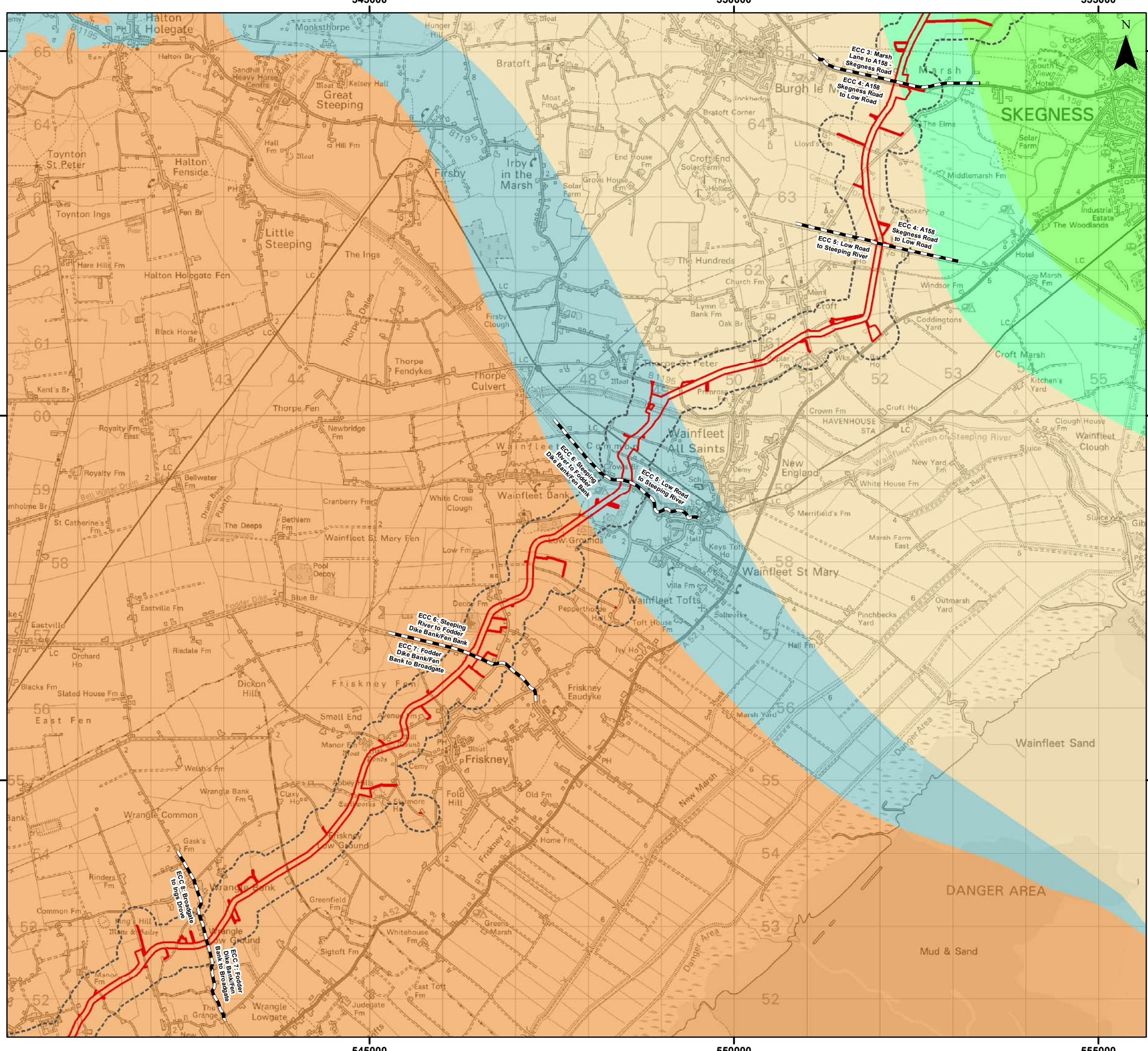


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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer

Sedimentary Bedrock

- Ferriby Chalk Formation – Chalk
- Carstone Formation – Sandstone
- Claxby Ironstone Formation, Tealby Formation And Roach Formation - Mudstone And Limestone, Interbedded
- Spilby Sandstone Formation – Sandstone
- Kimmeridge Clay Formation – Mudstone

Cretaceous
Jurassic

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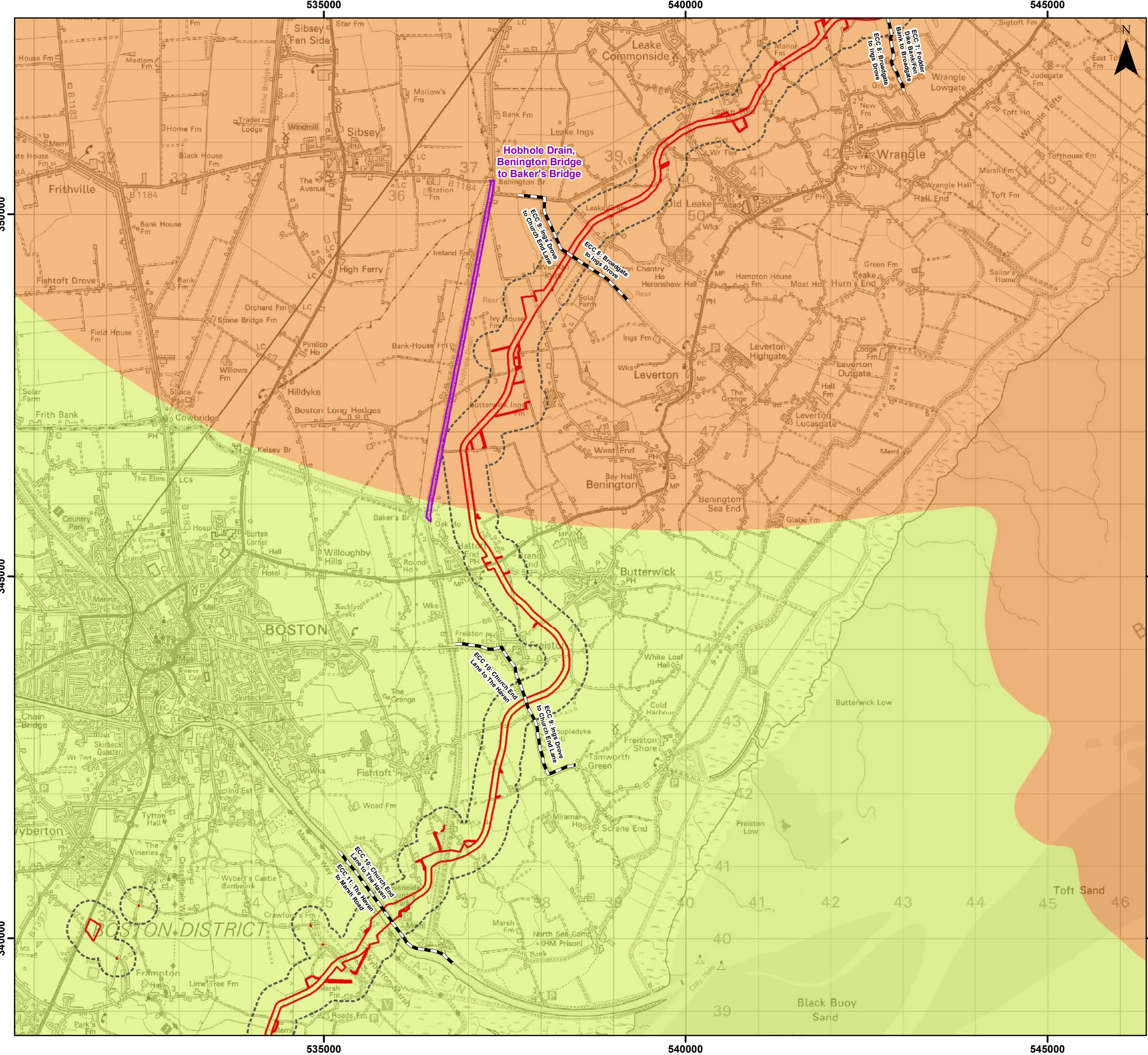
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Bedrock Geology

Figure 23.3.2



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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Local Geological Site

Sedimentary Bedrock

- Kimmeridge Clay Formation – Mudstone
- Amphill Clay Formation – Mudstone

Jurassic

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Bedrock Geology

Figure 23.3.3

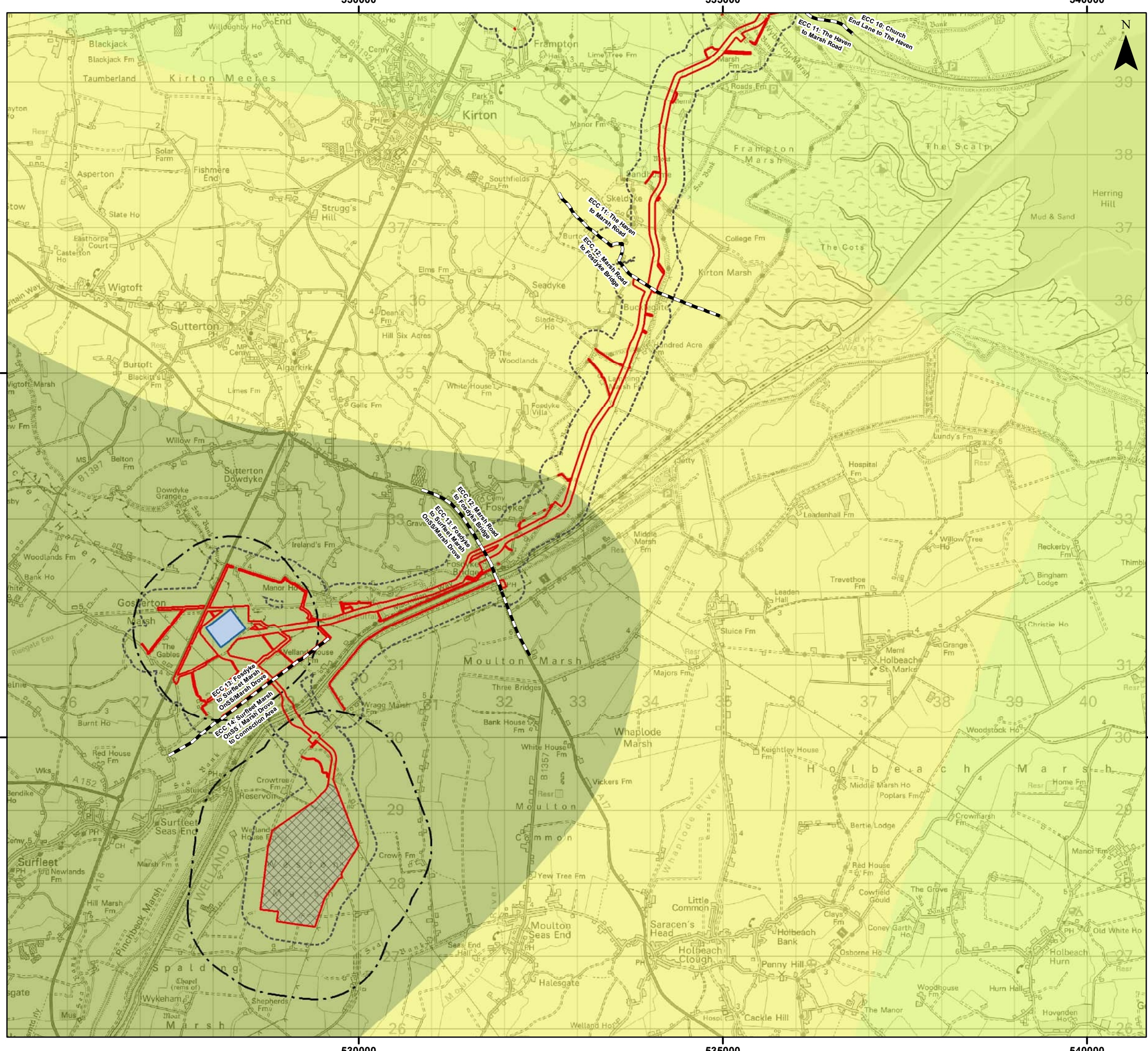


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Legend

- Order Limits
- Onshore Segment Break
- Onshore Substation (OnSS) Footprint
- Connection Area
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer

Sedimentary Bedrock

- Amphill Clay Formation – Mudstone
- West Walton Formation - Mudstone And Siltstone
- Oxford Clay Formation – Mudstone

Jurassic

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Bedrock Geology data obtained via BGS WMS. British Geological Survey © NERC. All Rights Reserved.

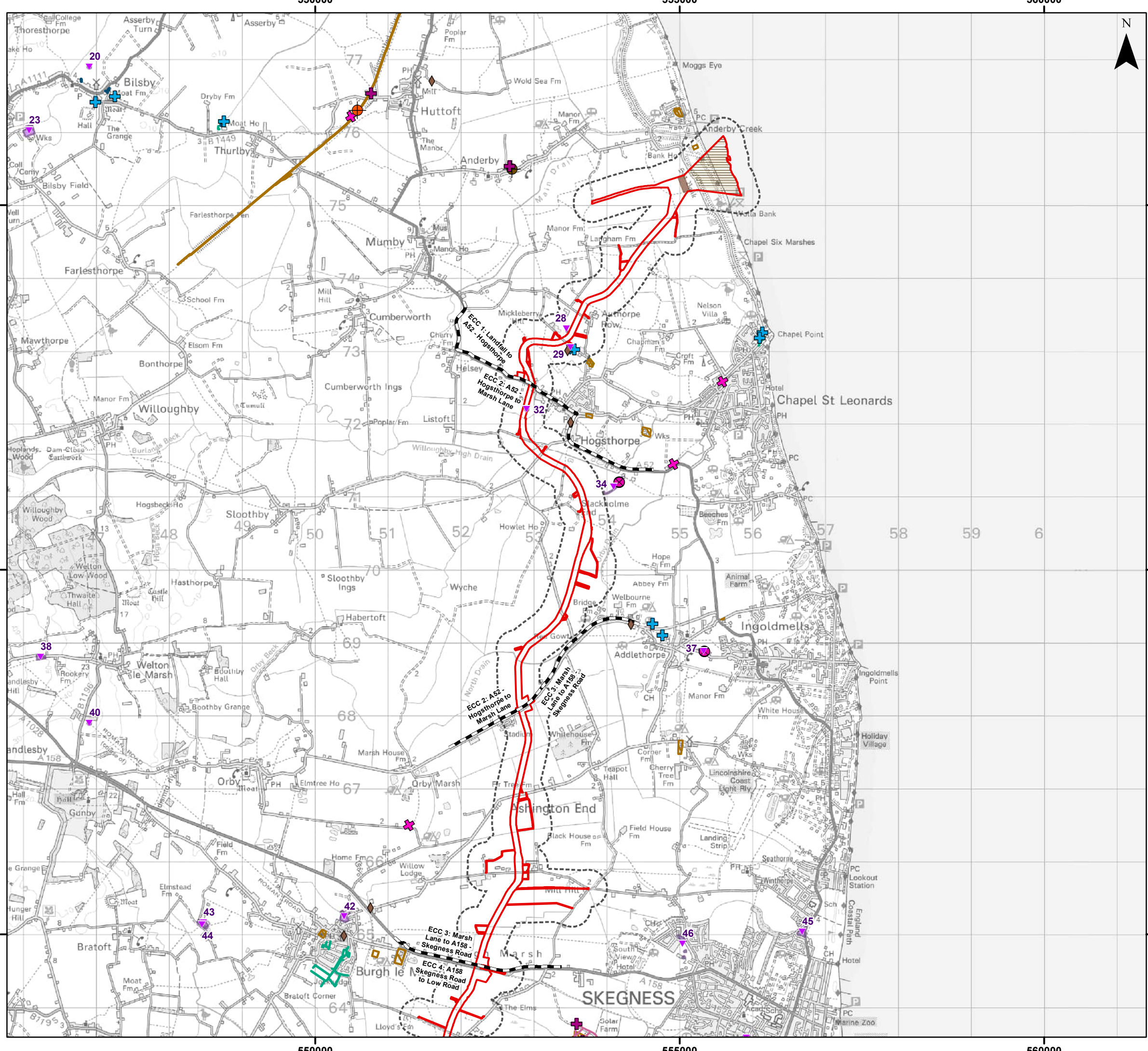


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 Bedrock Geology
 Figure 23.3.4



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Legend

- Order Limits
- Onshore Segment Break
- Landfall Trenchless Works
- Transition Joint Bay
- Order Limits 250 m Buffer
- ▼ Historic Landfill Site (Centroid)
- Historic Landfill Site (Boundary)
- ◆ Potentially Contaminative Industrial Uses (Past Land Use) Point
- Potentially Contaminative Industrial Uses (Past Land Use) Line
- Potentially Contaminative Industrial Uses (Past Land Use)
- + Licensed Waste Management Facilities Location
- Licensed Waste Management Facilities Landfill Boundary
- Potentially Infilled Land (Non-water)
- + Potentially Infilled Land (Water) Point
- Infilled Ground (Water) Line
- Potentially Infilled Land (Water)
- ⊗ Registered Landfill Site
- Registered Waste Treatment Site
- ⊗ Registered Waste Transport Site
- ✕ Substantiated Pollution Incident Register

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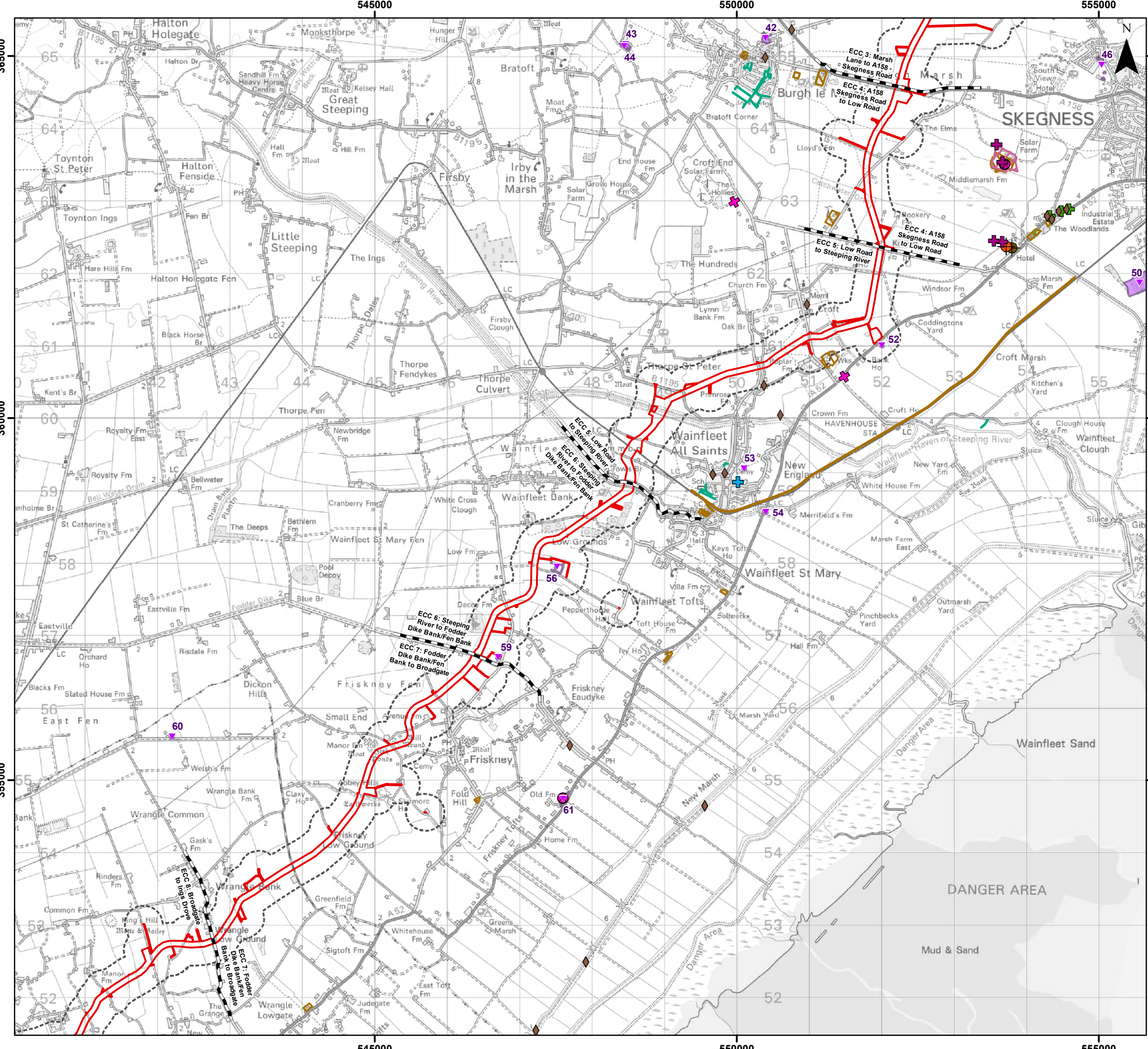
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 Potential Sources of Contamination
 Figure 23.4.1




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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- ▼ Historic Landfill Site (Centroid)
- Historic Landfill Site (Boundary)
- ◆ Potentially Contaminative Industrial Uses (Past Land Use) Point
- Potentially Contaminative Industrial Uses (Past Land Use) Line
- Potentially Contaminative Industrial Uses (Past Land Use)
- + Licensed Waste Management Facilities Location
- Licensed Waste Management Facilities Landfill Boundary
- + Potentially Infilled Land (Non-water) Point
- Potentially Infilled Land (Non-water)
- + Potentially Infilled Land (Water) Point
- Infilled Ground (Water) Line
- ⊗ Registered Landfill Site
- ◆ Registered Waste Treatment Site
- ◆ Registered Waste Transport Site
- ✕ Substantiated Pollution Incident Register

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Environmental Statement
 Potential Sources of Contamination
 Figure 23.4.2



OUTER DOWSING
OFFSHORE WIND

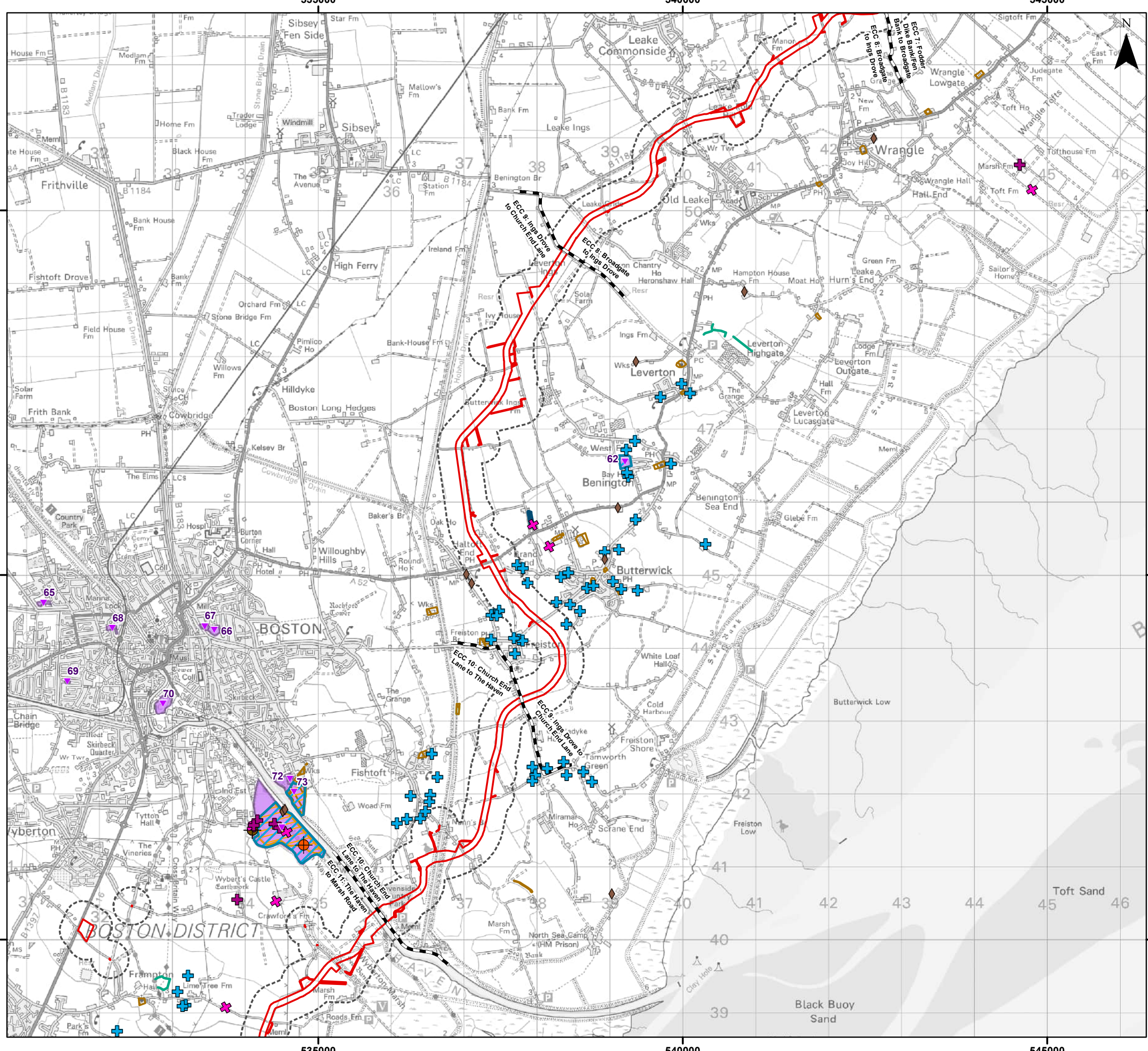


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- ### Legend
- Order Limits
 - Onshore Segment Break
 - Order Limits 250 m Buffer
 - ▼ Historic Landfill Site (Centroid)
 - Historic Landfill Site (Boundary)
 - BGS Recorded Landfill Site
 - ◆ Potentially Contaminative Industrial Uses (Past Land Use) Point
 - Potentially Contaminative Industrial Uses (Past Land Use)
 - + Licensed Waste Management Facilities Location
 - Licensed Waste Management Facilities Landfill Boundary
 - Potentially Infilled Land (Non-water)
 - + Potentially Infilled Land (Water) Point
 - Infilled Ground (Water) Line
 - Potentially Infilled Land (Water)
 - Local Authority Landfill Sites
 - Registered Waste Treatment Site
 - Registered Waste Transport Site
 - ✦ Substantiated Pollution Incident Register

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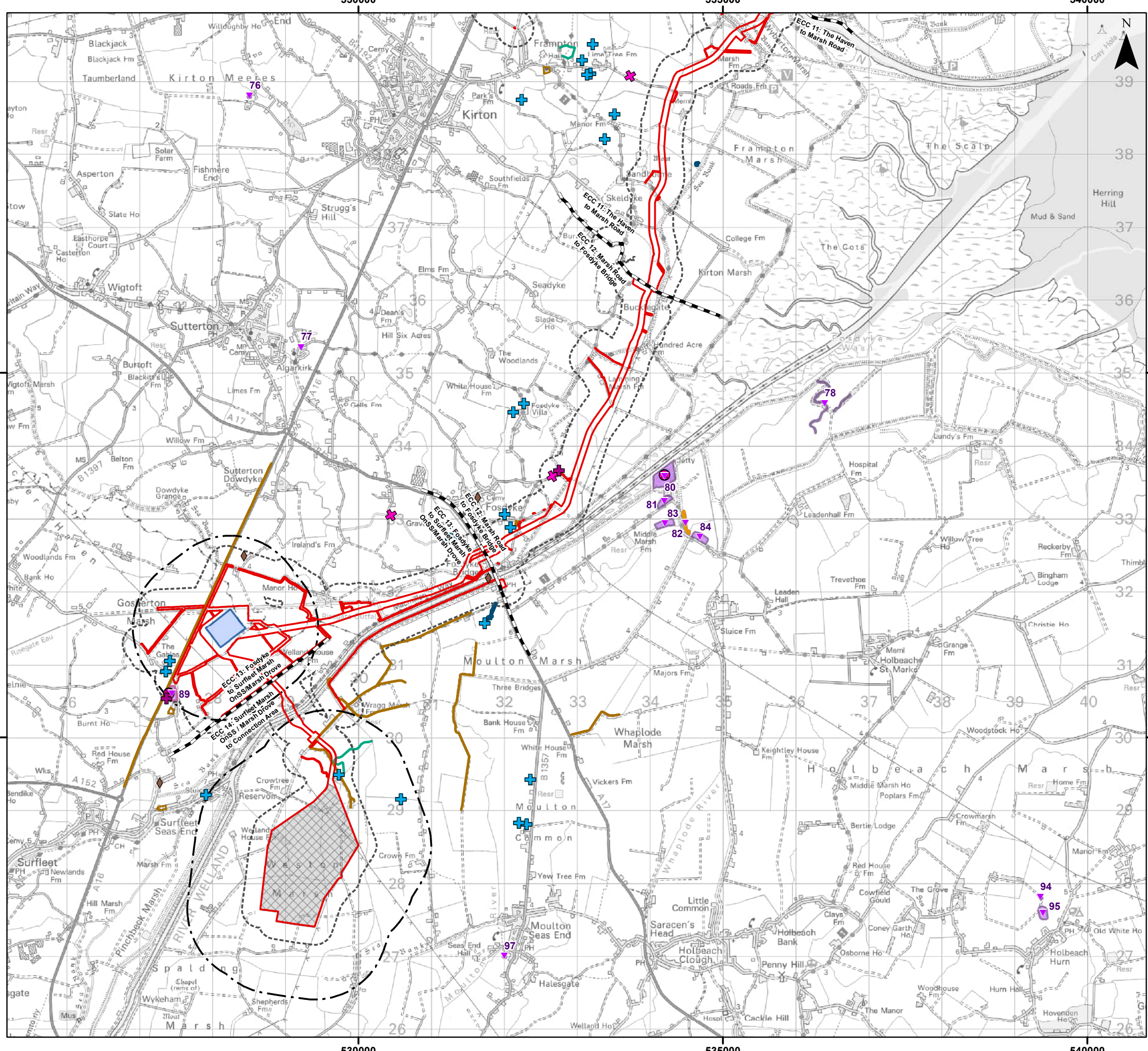
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Legend

- Order Limits
- Onshore Segment Break
- Onshore Substation (OnSS) Footprint
- Connection Area
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer
- Historic Landfill Site (Centroid)
- Historic Landfill Site (Boundary)
- BGS Recorded Landfill Site
- Potentially Contaminative Industrial Uses (Past Land Use) Point
- Potentially Contaminative Industrial Uses (Past Land Use) Line
- Potentially Contaminative Industrial Uses (Past Land Use)
- Licensed Waste Management Facilities Location
- Licensed Waste Management Facilities Landfill Boundary
- Potentially Infilled Land (Water) Point
- Infilled Ground (Water) Line
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Substantiated Pollution Incident Register

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 Potential Sources of Contamination
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OFFSHORE WIND



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