

Outer Dowsing Offshore Wind

Environmental Statement

Chapter 23 Geology and Ground Conditions

Volume 2 Figures

Date: July 2024

Document Reference: 6.2.23

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

Rev: 2.0

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Project:	Whole Wind Farm		Sub Project/Package:	Whole Asset		
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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
2.0	July 2024	Response to Section 51 Advice	SLR	SLR	Shepherd and Wedderburn	Outer Dowsing

Revision Record

Revision	Date	Reason for Change	Change Made
1.1	08/07/2024	Response to Section 51 Advice	Reference numbers and landfill site names have been added to Figures 23.4.1 – 23.4.4 to allow easy cross-reference between maps and chapter text.

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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
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Environmental Statement
 Study Area and ECC Route Segments
 Figure 23.1

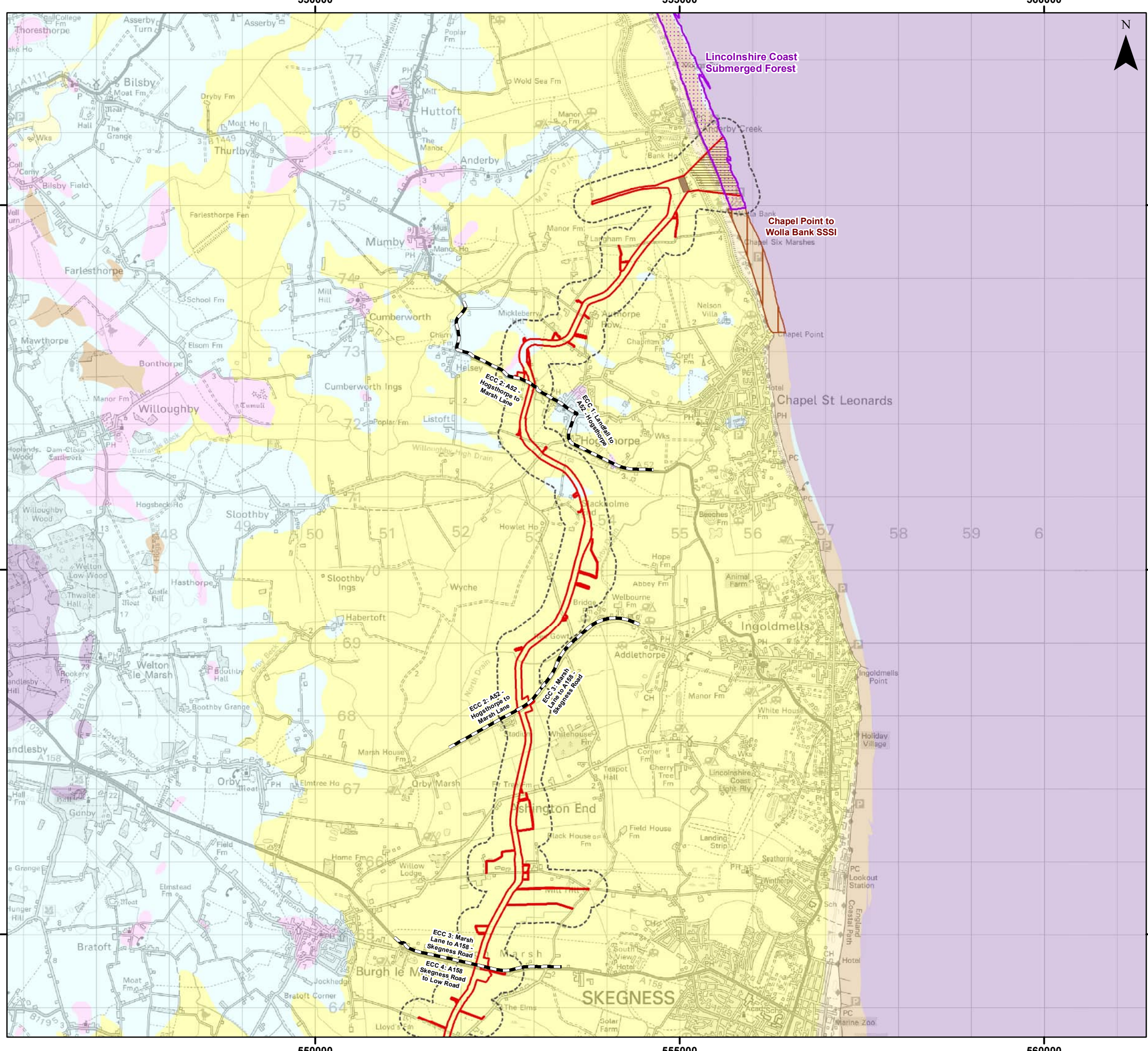
OUTER DOWSING
OFFSHORE WIND

SLR

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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

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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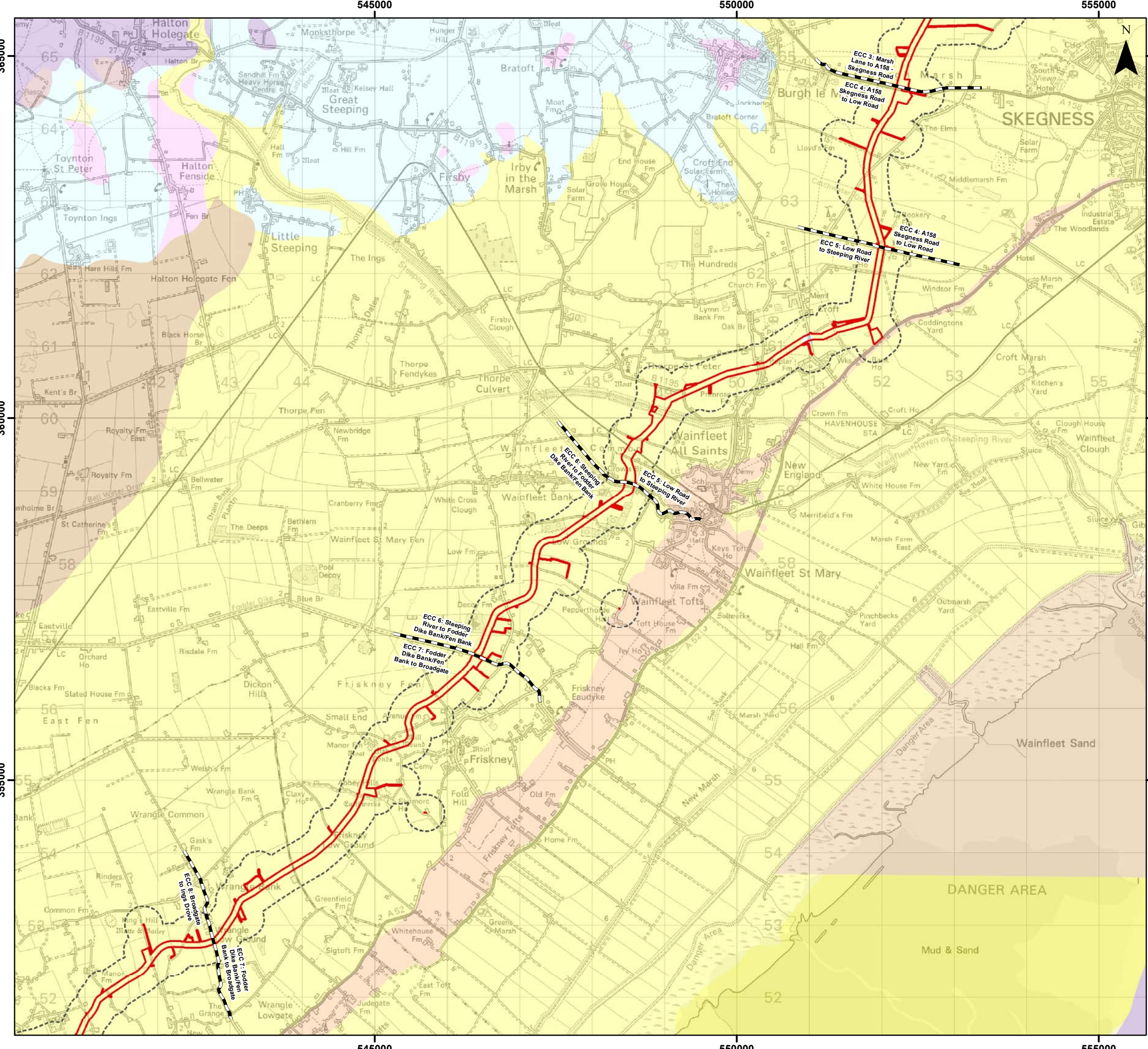
Superficial Geology

Figure 23.2.1

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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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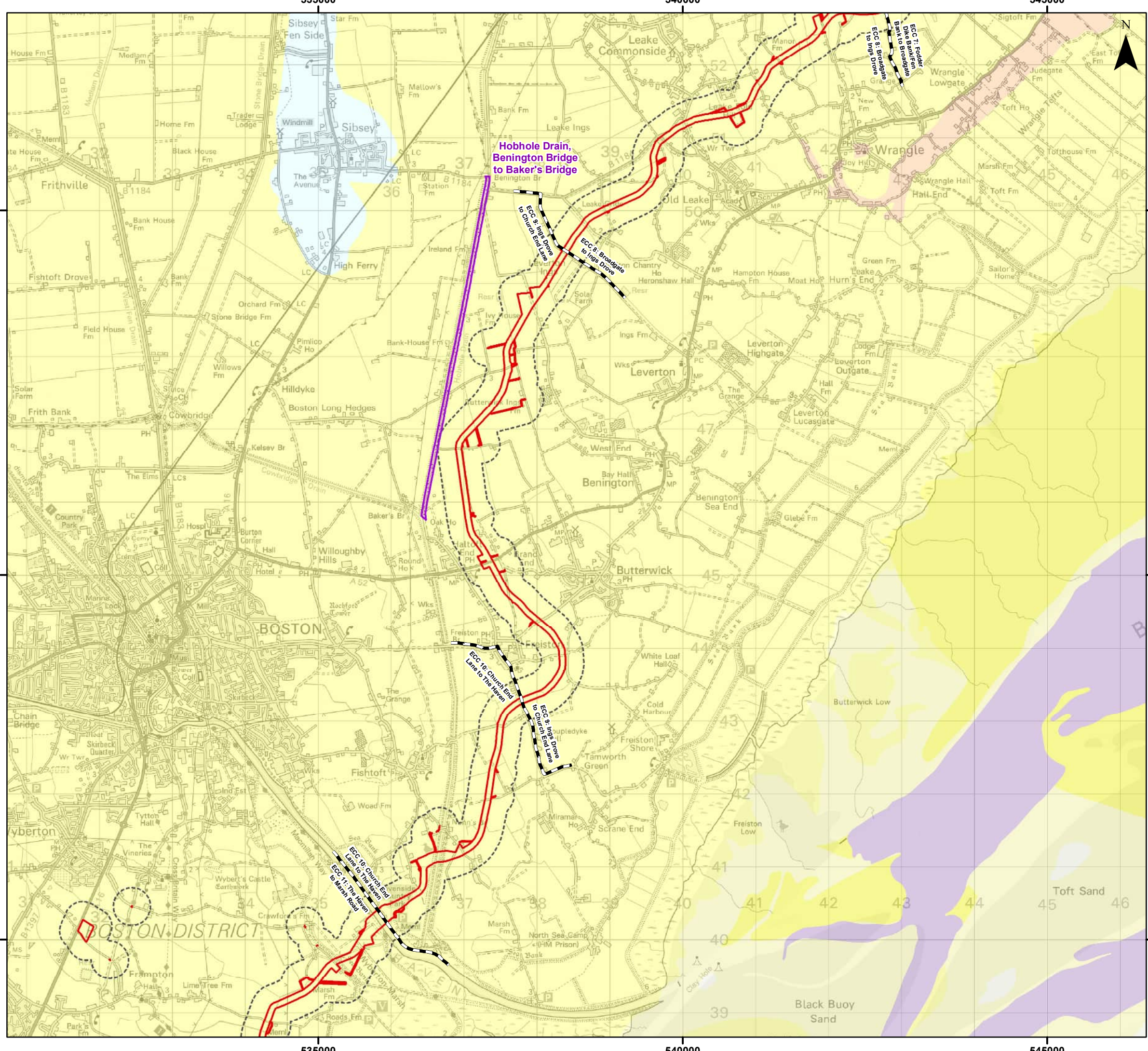
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 Figure 23.2.2

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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

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



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Superficial Geology

Figure 23.2.3



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OFFSHORE WIND

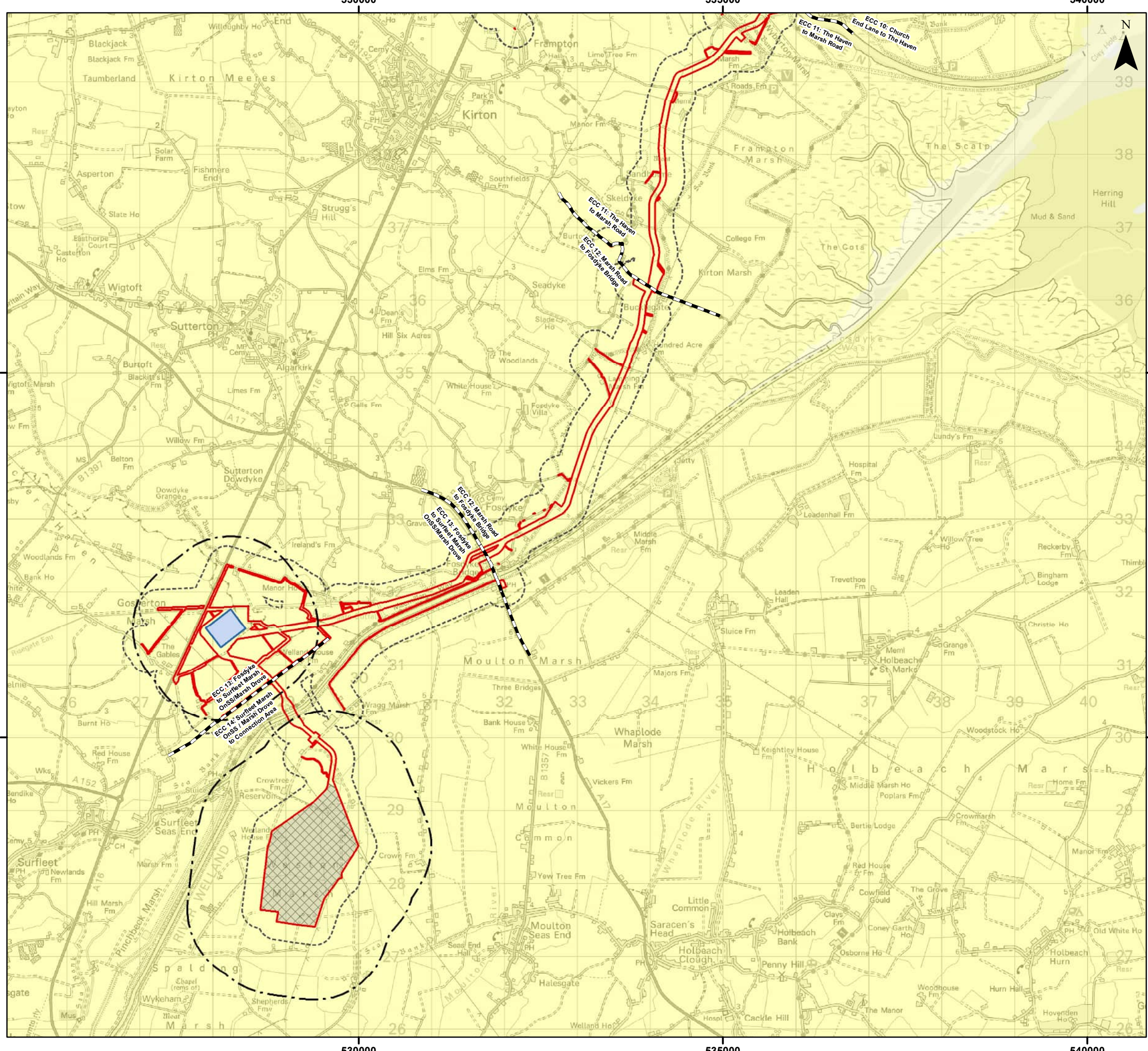


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Legend

- 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

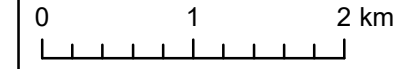
Superficial Deposits

- 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

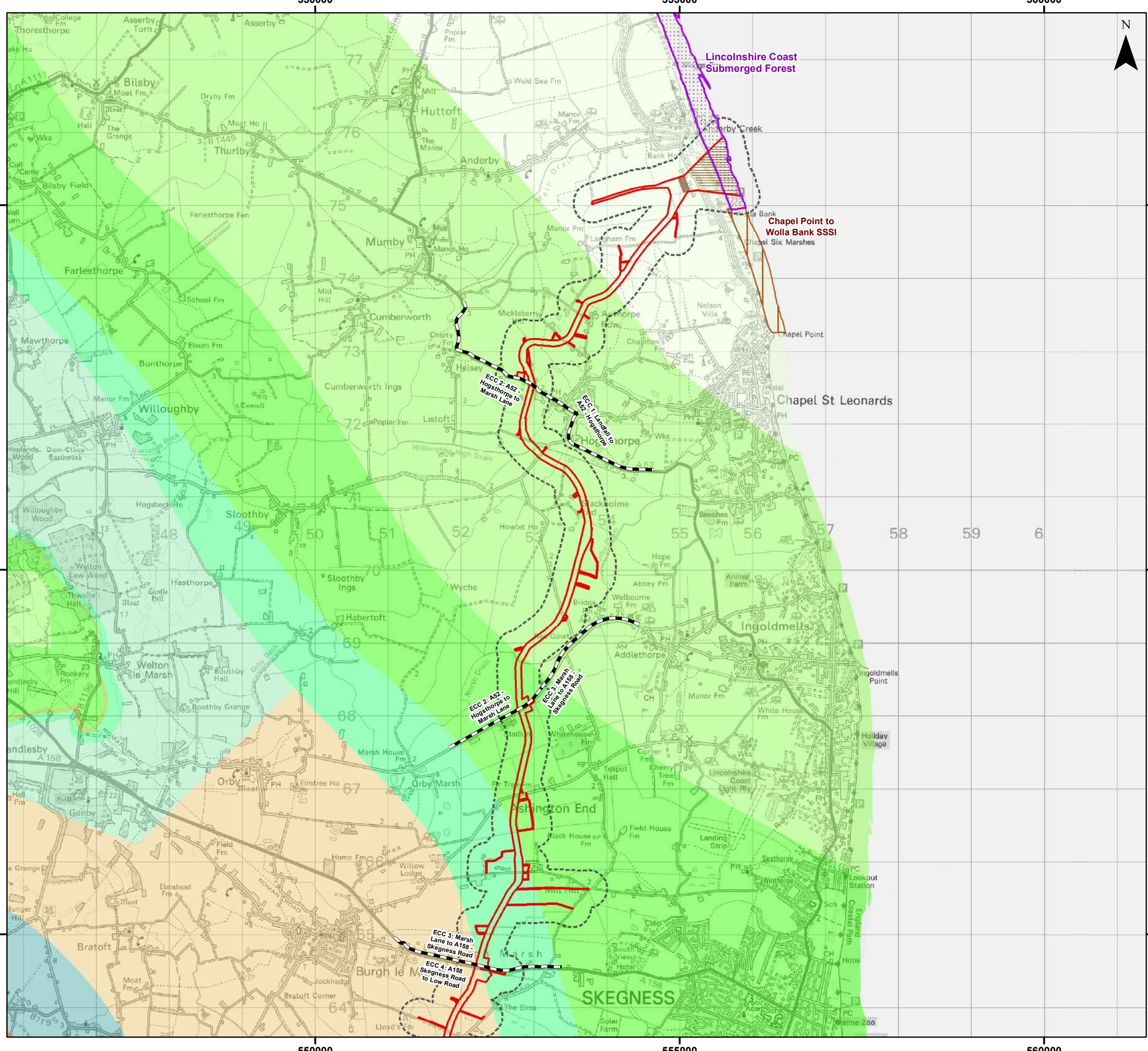


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Legend

- 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
- Spilsby Sandstone Formation – Sandstone

Cretaceous
Jurassic

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



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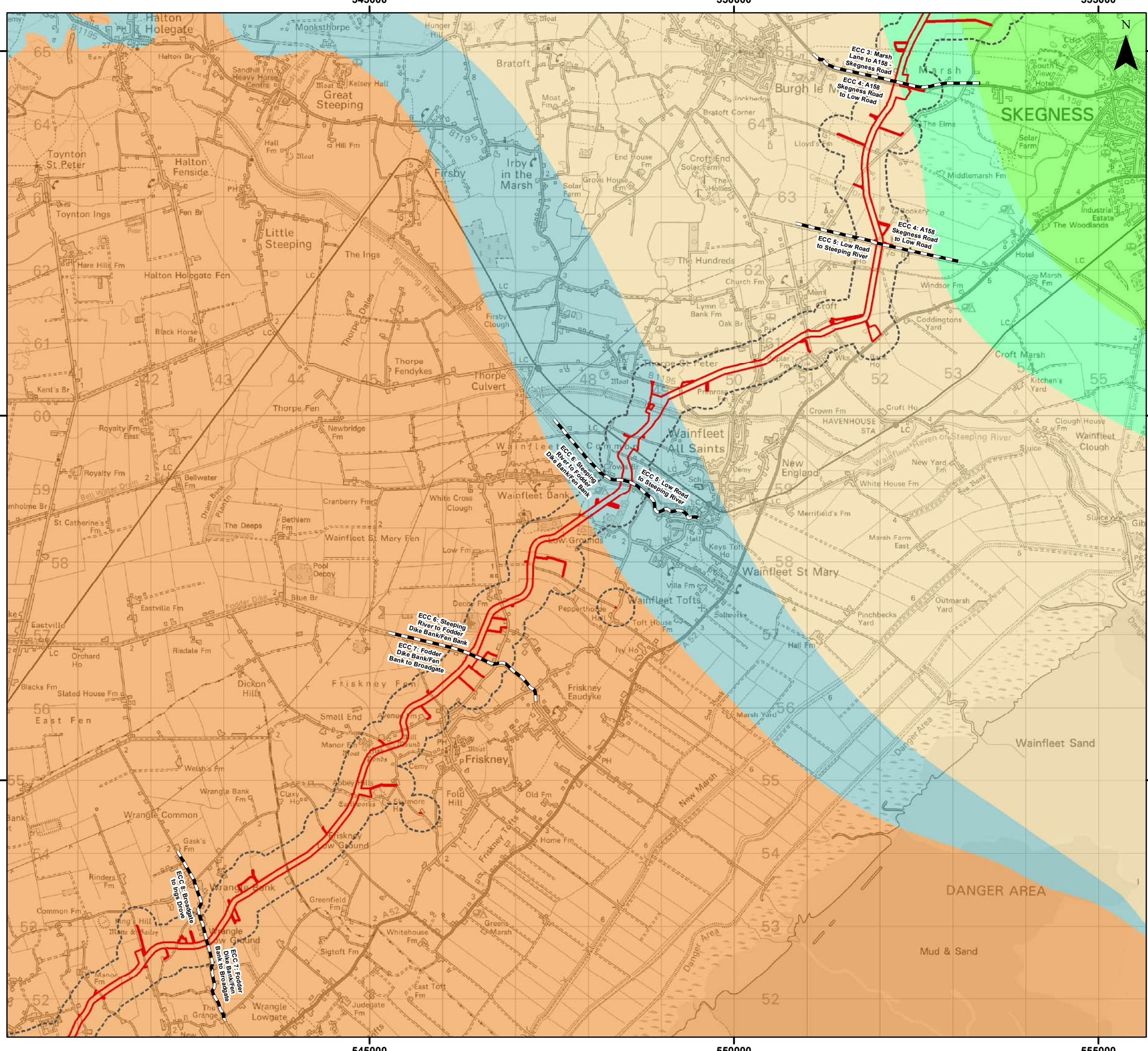
Environmental Statement

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

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

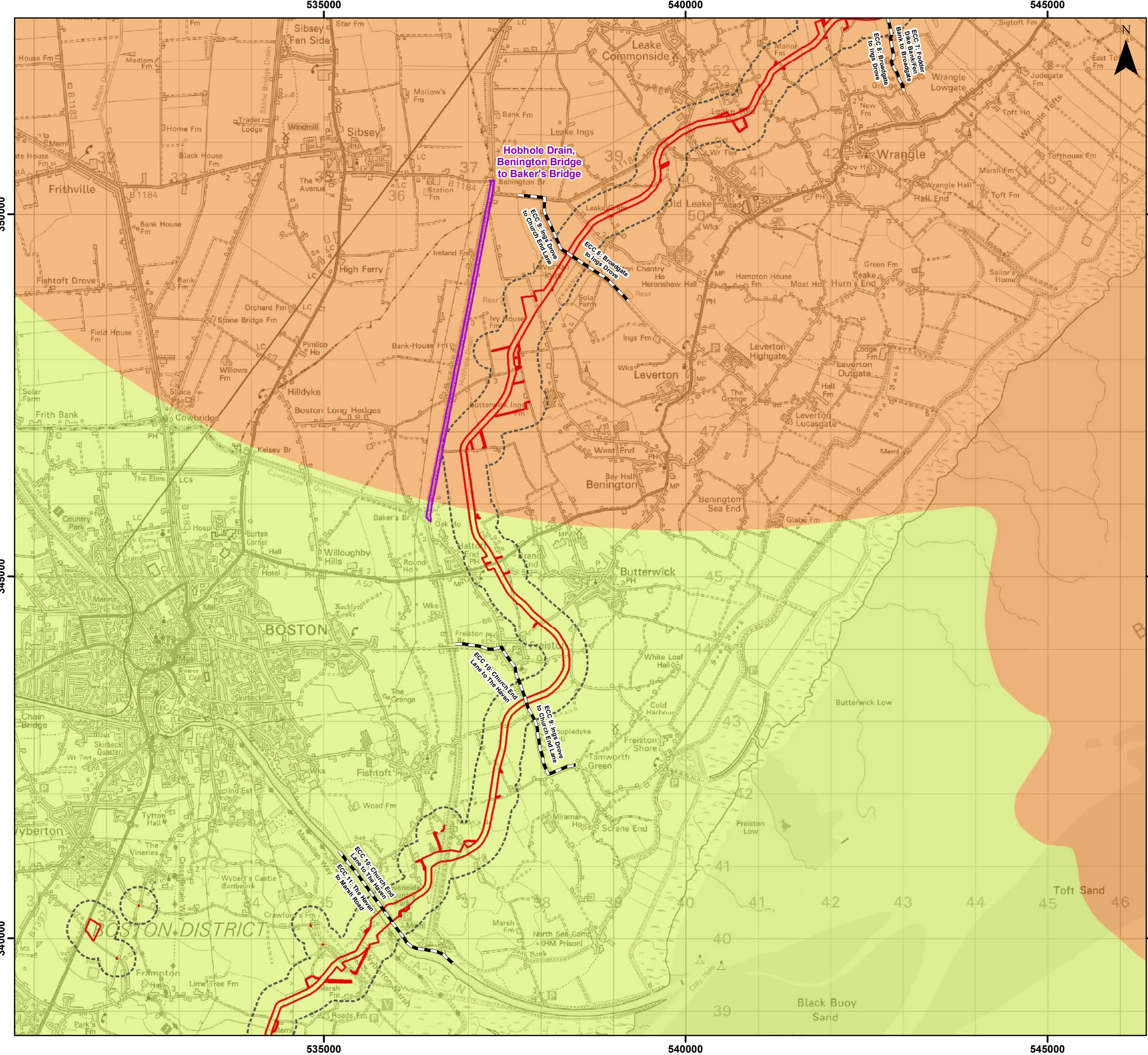


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Environmental Statement
 Bedrock Geology
 Figure 23.3.2



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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

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



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Bedrock Geology

Figure 23.3.3

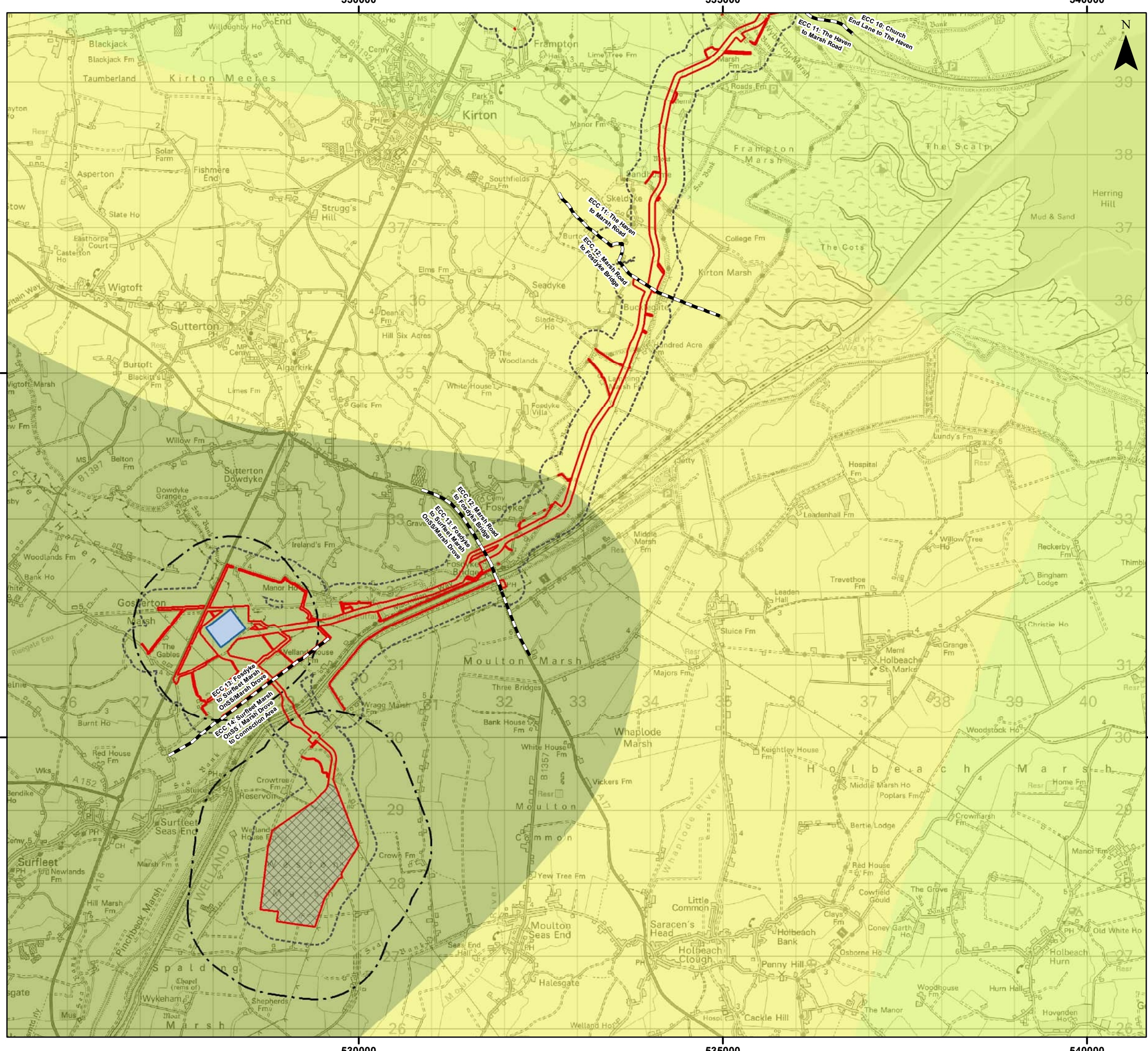


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Legend

- 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

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

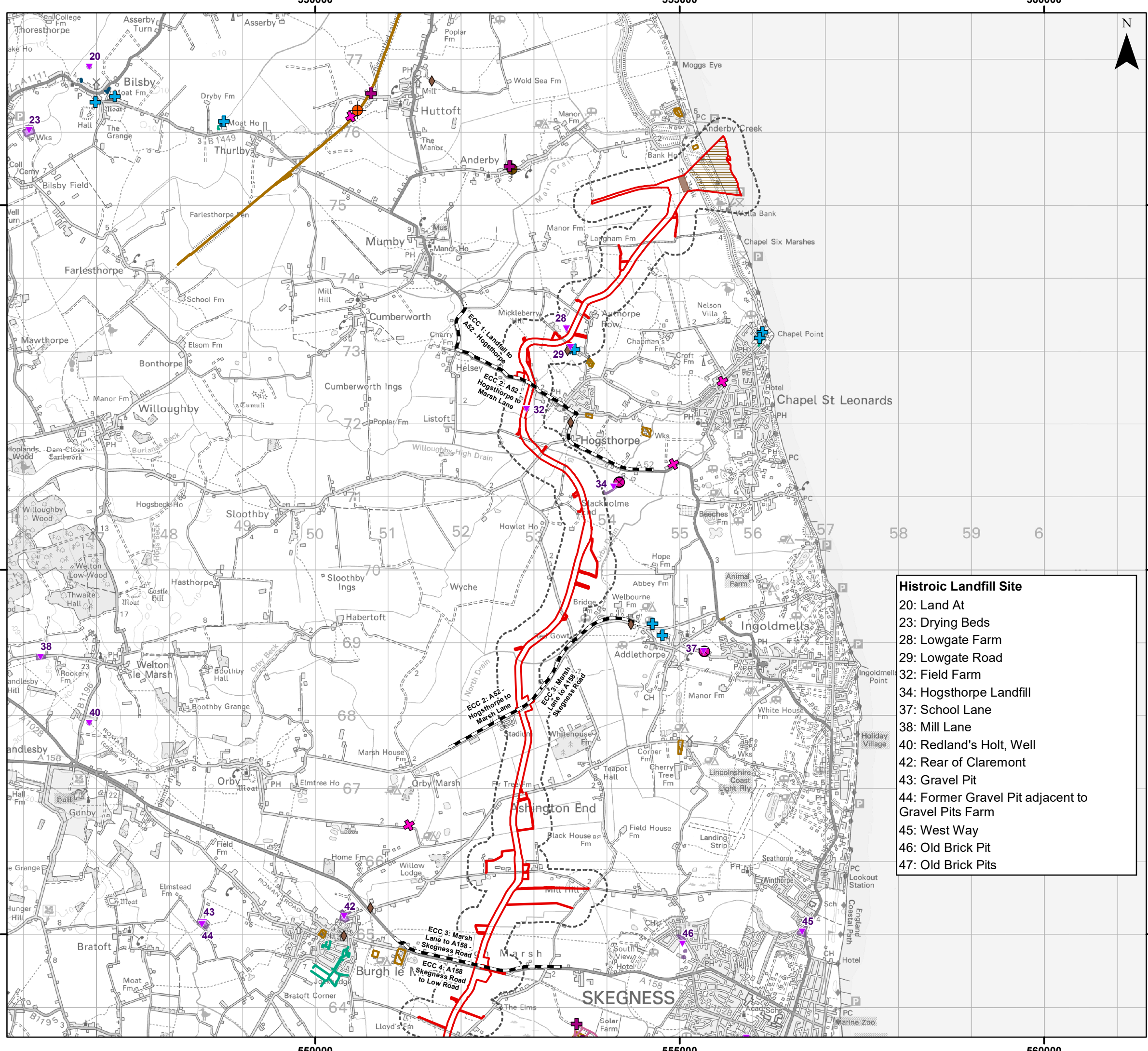


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Environmental Statement
 Bedrock Geology
 Figure 23.3.4



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Legend

- Order Limits
- Onshore Segment Break
- Landfall Trenchless Works
- Transition Joint Bay Area
- 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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- #### Histoic Landfill Site
- 20: Land At
 - 23: Drying Beds
 - 28: Lowgate Farm
 - 29: Lowgate Road
 - 32: Field Farm
 - 34: Hogsthorpe Landfill
 - 37: School Lane
 - 38: Mill Lane
 - 40: Redland's Holt, Well
 - 42: Rear of Claremont
 - 43: Gravel Pit
 - 44: Former Gravel Pit adjacent to Gravel Pits Farm
 - 45: West Way
 - 46: Old Brick Pit
 - 47: Old Brick Pits



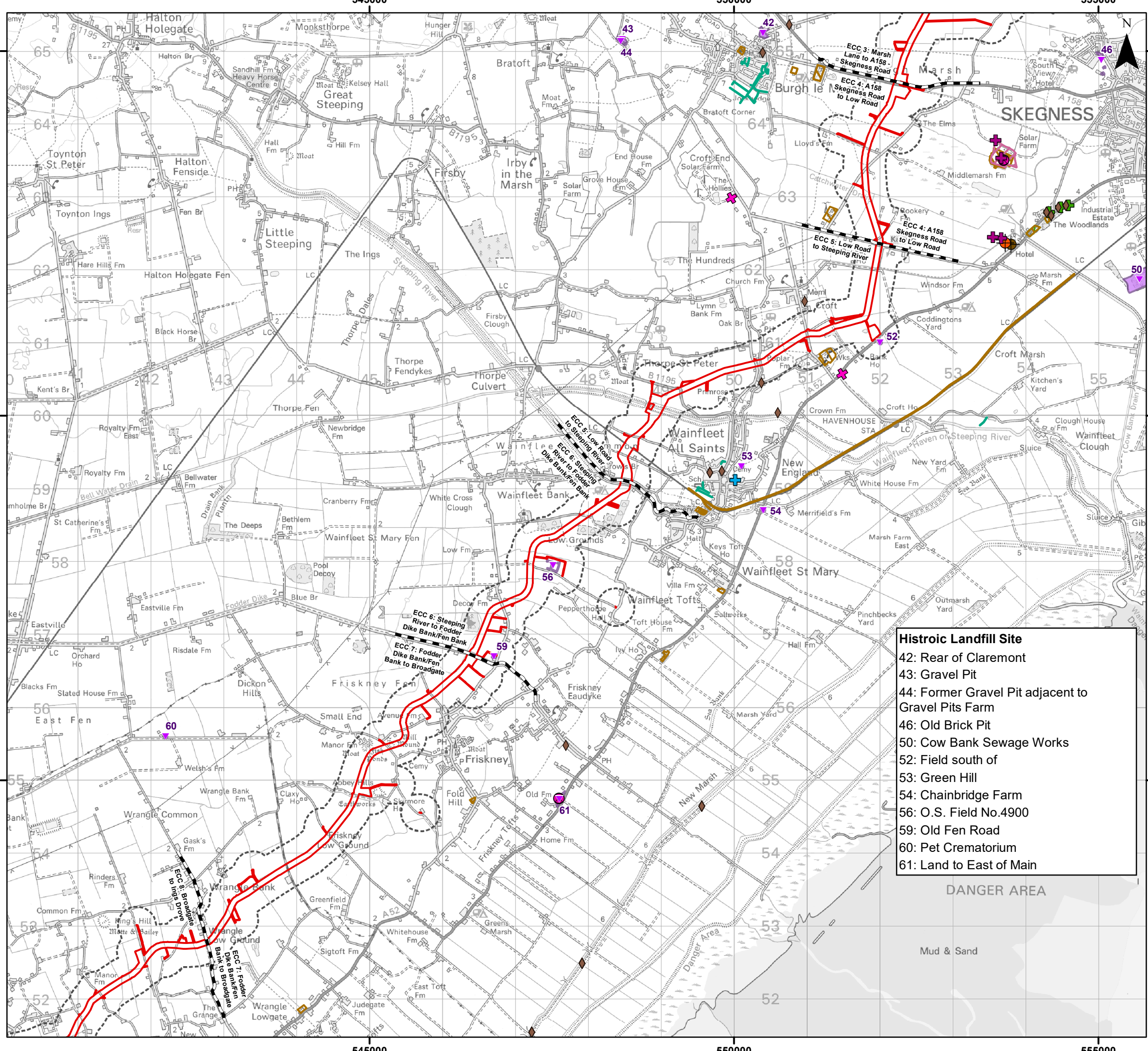
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Environmental Statement
 Potential Sources of Contamination
 Figure 23.4.1

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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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- Historic Landfill Site**
- 42: Rear of Claremont
 - 43: Gravel Pit
 - 44: Former Gravel Pit adjacent to Gravel Pits Farm
 - 46: Old Brick Pit
 - 50: Cow Bank Sewage Works
 - 52: Field south of
 - 53: Green Hill
 - 54: Chainbridge Farm
 - 56: O.S. Field No.4900
 - 59: Old Fen Road
 - 60: Pet Crematorium
 - 61: Land to East of Main

Coordinate System: British National Grid
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 Scale: 1:50,000
 A3 Page Size

Environmental Statement
 Potential Sources of Contamination
 Figure 23.4.2

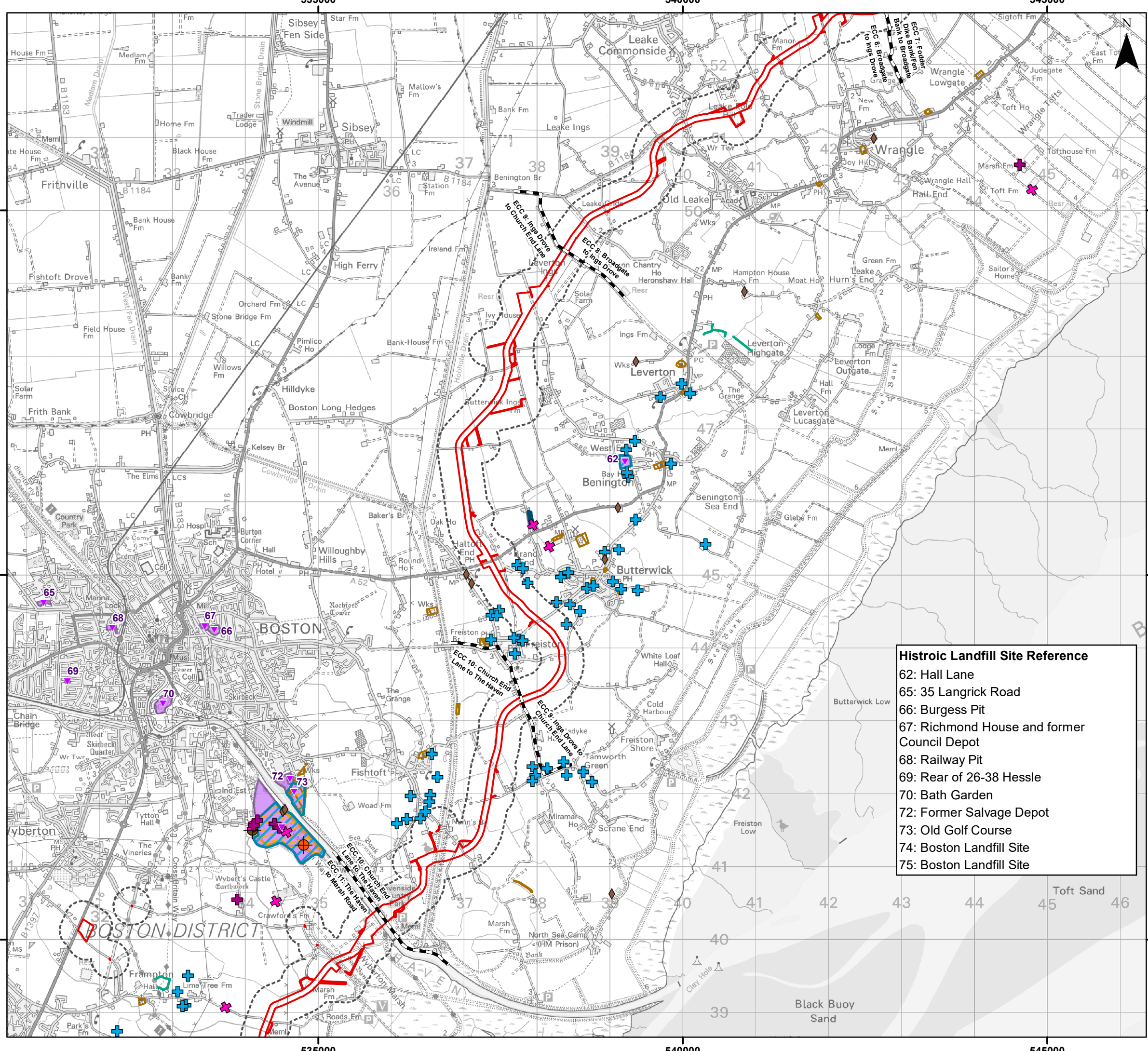




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- ### Legend
- Order Limits
 - Onshore Segment Break
 - Order Limits 250 m Buffer
 - ▼ Historic Landfill Site (Centroid)
 - Historic Landfill Site (Boundary)
 - BGS Recorded Landfill Site
 - ◆ Potentially Contaminative Industrial Uses (Past Land Use) 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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- #### Histoic Landfill Site Reference
- 62: Hall Lane
 - 65: 35 Langrick Road
 - 66: Burgess Pit
 - 67: Richmond House and former Council Depot
 - 68: Railway Pit
 - 69: Rear of 26-38 Hessele
 - 70: Bath Garden
 - 72: Former Salvage Depot
 - 73: Old Golf Course
 - 74: Boston Landfill Site
 - 75: Boston Landfill Site

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Environmental Statement
 Potential Sources of Contamination
 Figure 23.4.3

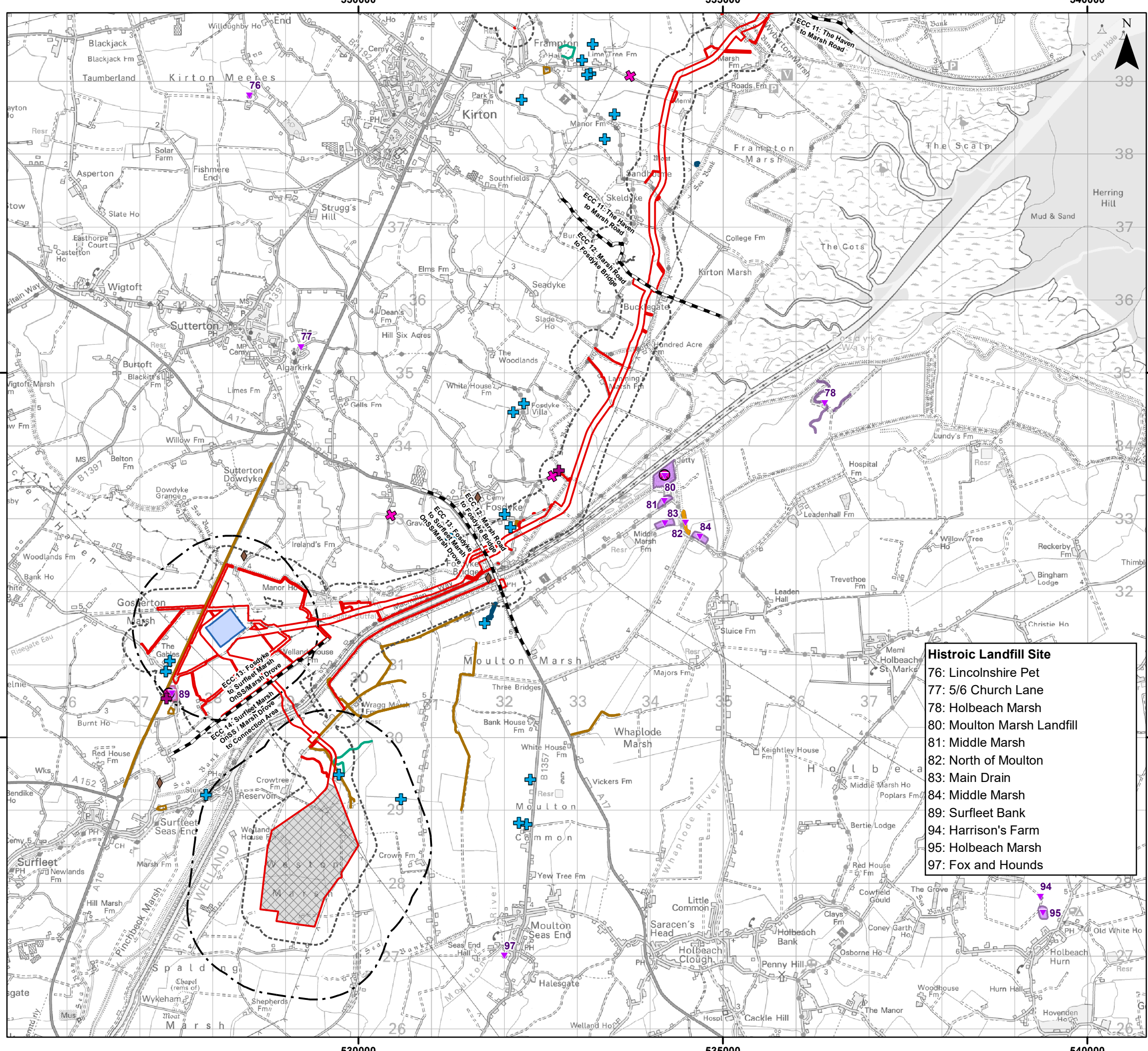


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Legend

- 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
- ▼ 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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- Historic Landfill Site**
- 76: Lincolnshire Pet
 - 77: 5/6 Church Lane
 - 78: Holbeach Marsh
 - 80: Moulton Marsh Landfill
 - 81: Middle Marsh
 - 82: North of Moulton
 - 83: Main Drain
 - 84: Middle Marsh
 - 89: Surfleet Bank
 - 94: Harrison's Farm
 - 95: Holbeach Marsh
 - 97: Fox and Hounds

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Environmental Statement
 Potential Sources of Contamination
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