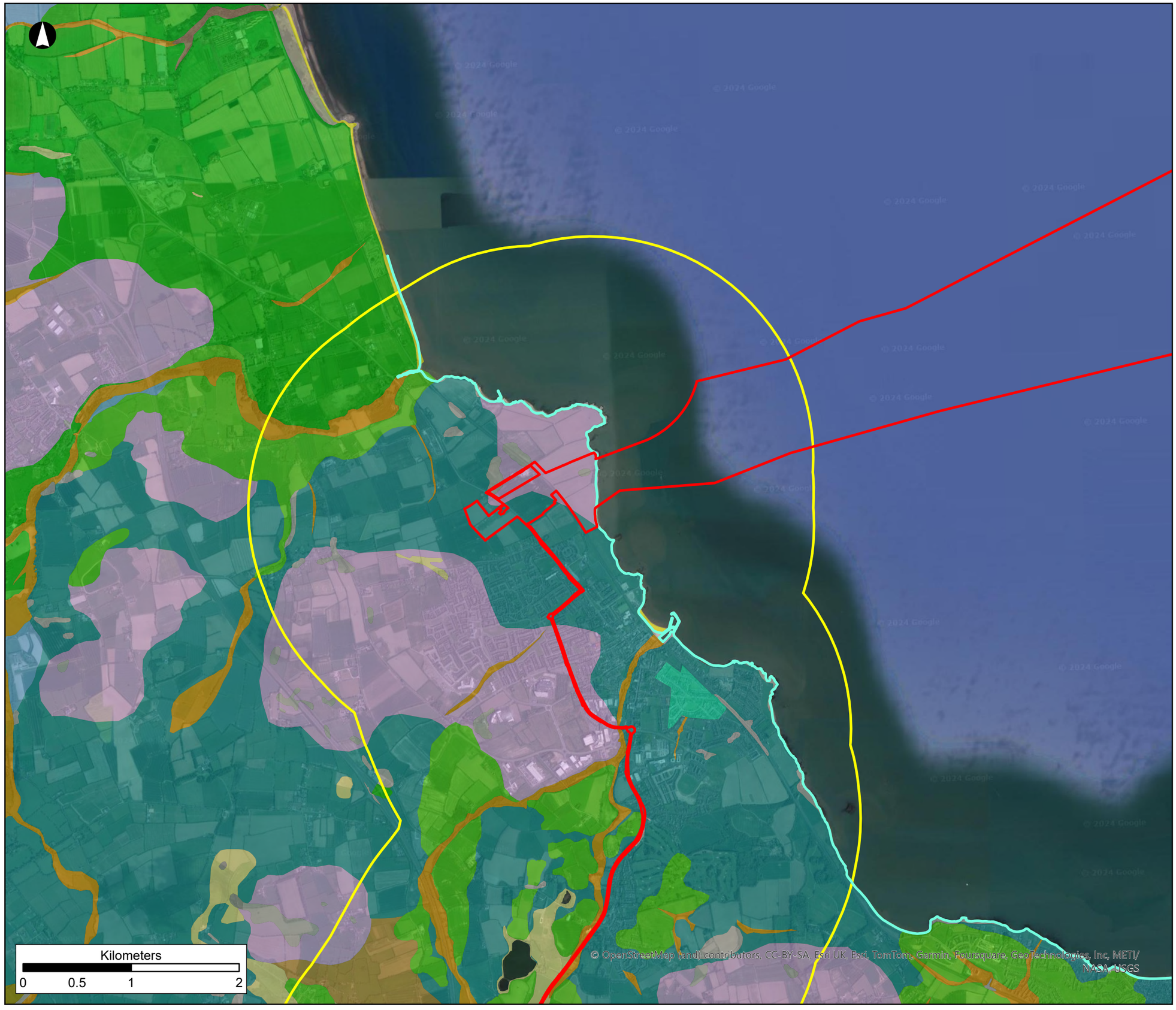


Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Quaternary Sediments

- A, Alluvium
- Ag, Alluvium (gravelly)
- Cut, Cut over raised peat
- GLPSsS, Gravels derived from Lower Palaeozoic sandstones and shales
- GLs, Gravels derived from Limestones
- IrSTBi, Irish Sea Till derived from basic igneous rocks
- IrSTLPSsS, Irish Sea Till derived from Lower Palaeozoic sandstones and shales
- KaRck, Kartsified bedrock outcrop or subcrop
- L, Lacustrine sediments
- Mbs, Marine beach sands
- Mesc, Esturine silts and clays
- Pier
- Rck, Bedrock outcrop or subcrop
- TLPSsS, Till derived from Lower Palaeozoic sandstones and shales
- TLs, Till derived from limestones
- TNSSs, Till derived from Namurian sandstones and shales
- Urban
- Water
- Ws, Windblown sands
- Wsd, Windblown sands and dunes

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North Irish Sea Array

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North Irish Sea Array Offshore Wind Farm

Figure Title

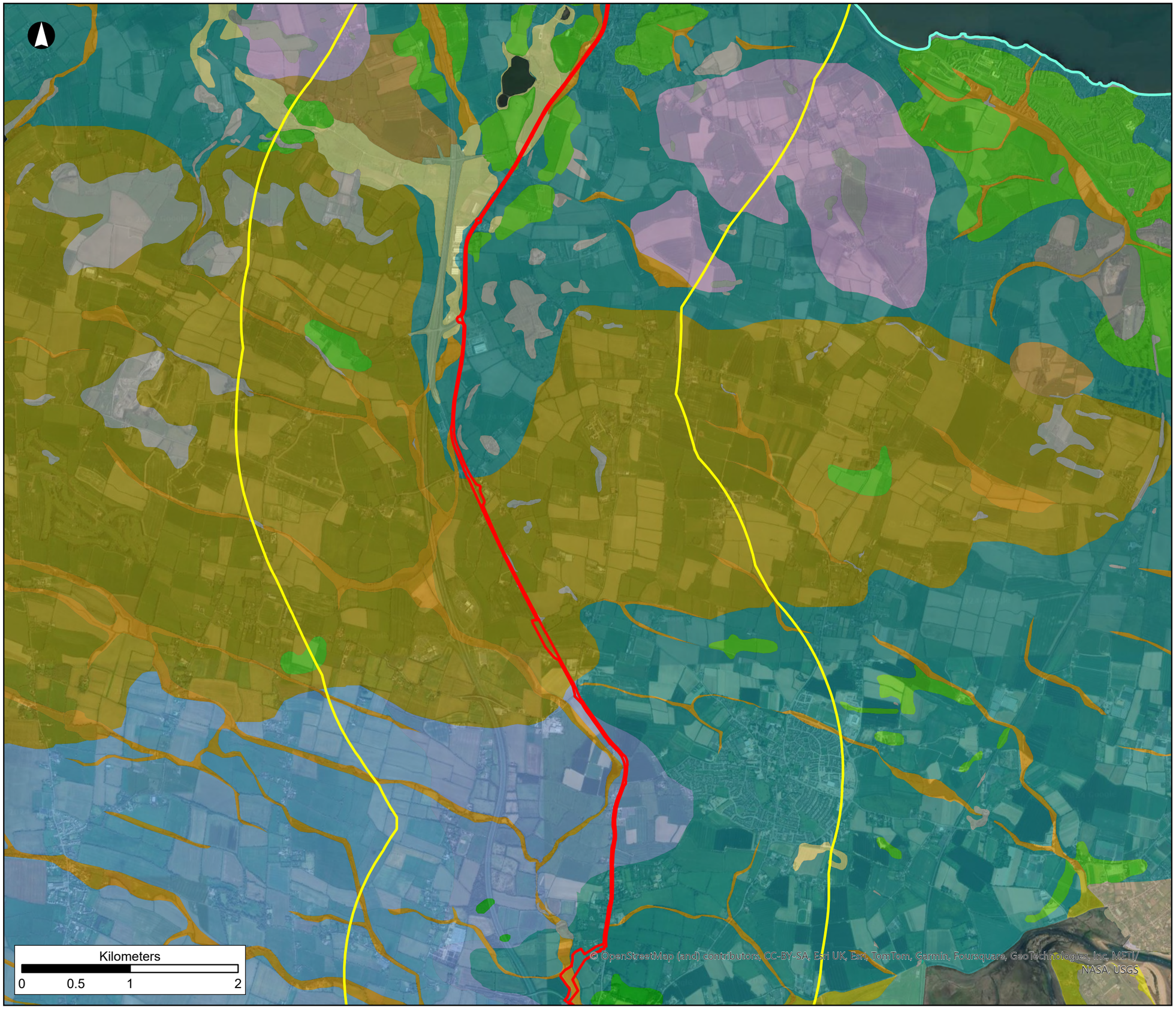
Subsoil Deposits

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21.13



Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Quaternary Sediments

- A, Alluvium
- Ag, Alluvium (gravelly)
- GLPSsS, Gravels derived from Lower Palaeozoic sandstones and shales
- GLs, Gravels derived from Limestones
- GNSSs, Gravels derived from Namurian sandstones and shales
- Hardstand
- IrSTBi, Irish Sea Till derived from basic igneous rocks
- IrSTLPSsS, Irish Sea Till derived from Lower Palaeozoic sandstones and shales
- IrSTLs, Irish Sea Till derived from Limestones
- KaRck, Kartsified bedrock outcrop or subcrop
- L, Lacustrine sediments
- Landfill
- Mbs, Marine beach sands
- Mesc, Esturine silts and clays
- Pier
- Rck, Bedrock outcrop or subcrop
- TLPSsS, Till derived from Lower Palaeozoic sandstones and shales
- TLs, Till derived from limestones
- TNSSs, Till derived from Namurian sandstones and shales
- Urban
- Water
- Ws, Windblown sands
- Wsd, Windblown sands and dunes

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North Irish Sea Array

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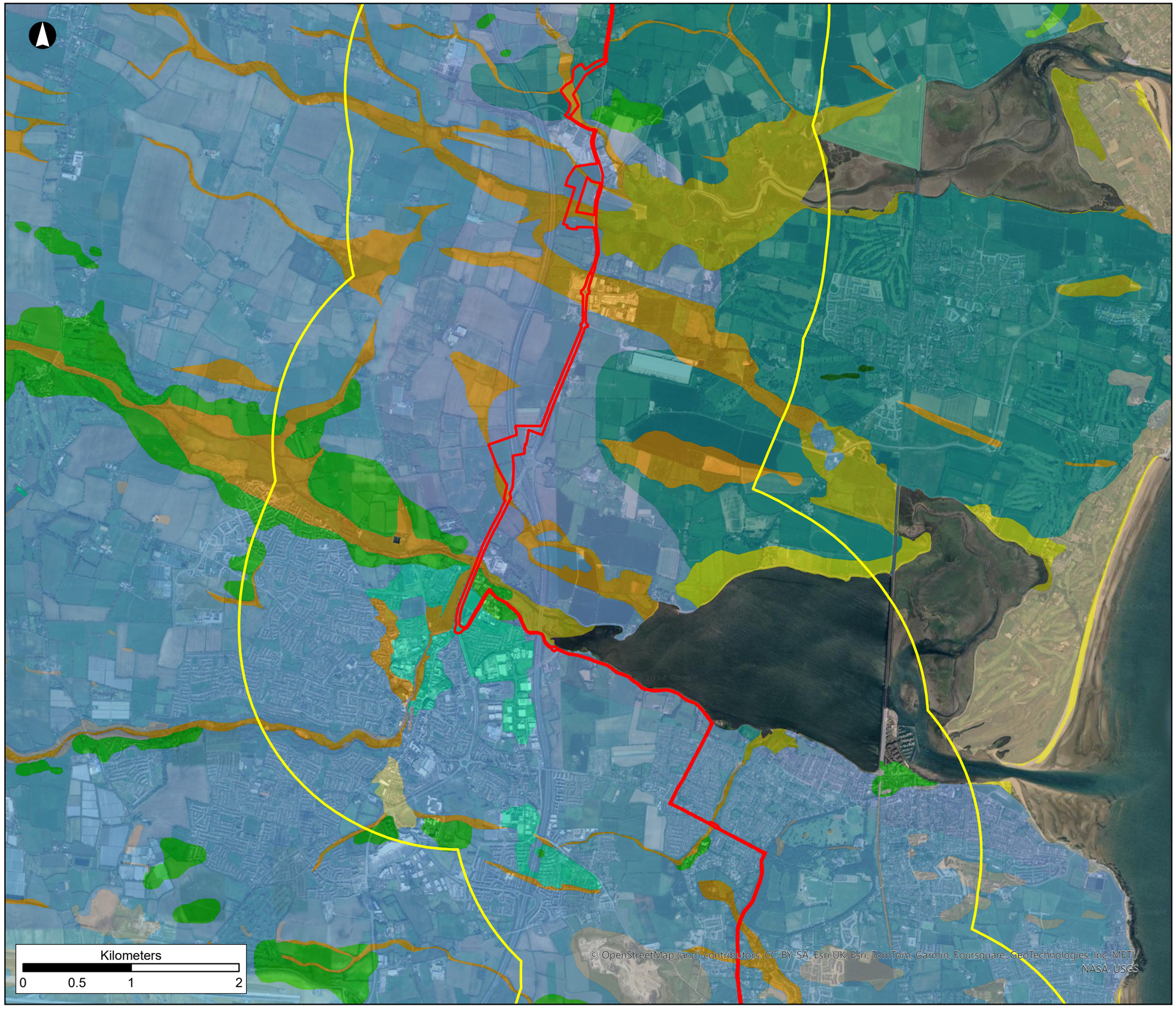
North Irish Sea Array Offshore Wind Farm

Figure Title

Subsoil Deposits

Sheet 2 of 4

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Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Quaternary Sediments

- A, Alluvium
- Ag, Alluvium (gravelly)
- BasEsk, Eskers comprised of gravels of basic reaction
- Embankment
- GLPSsS, Gravels derived from Lower Palaeozoic sandstones and shales
- GLs, Gravels derived from Limestones
- IrSTLPSsS, Irish Sea Till derived from Lower Palaeozoic sandstones and shales
- IrSTLs, Irish Sea Till derived from Limestones
- L, Lacustrine sediments
- Landfill
- Mbs, Marine beach sands
- Mesc, Esturine silts and clays
- Pier
- Rck, Bedrock outcrop or subcrop
- TLs, Till derived from limestones
- Urban
- Water
- Ws, Windblown sands
- Wsd, Windblown sands and dunes

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North Irish Sea Array

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North Irish Sea Array Offshore Wind Farm

Figure Title

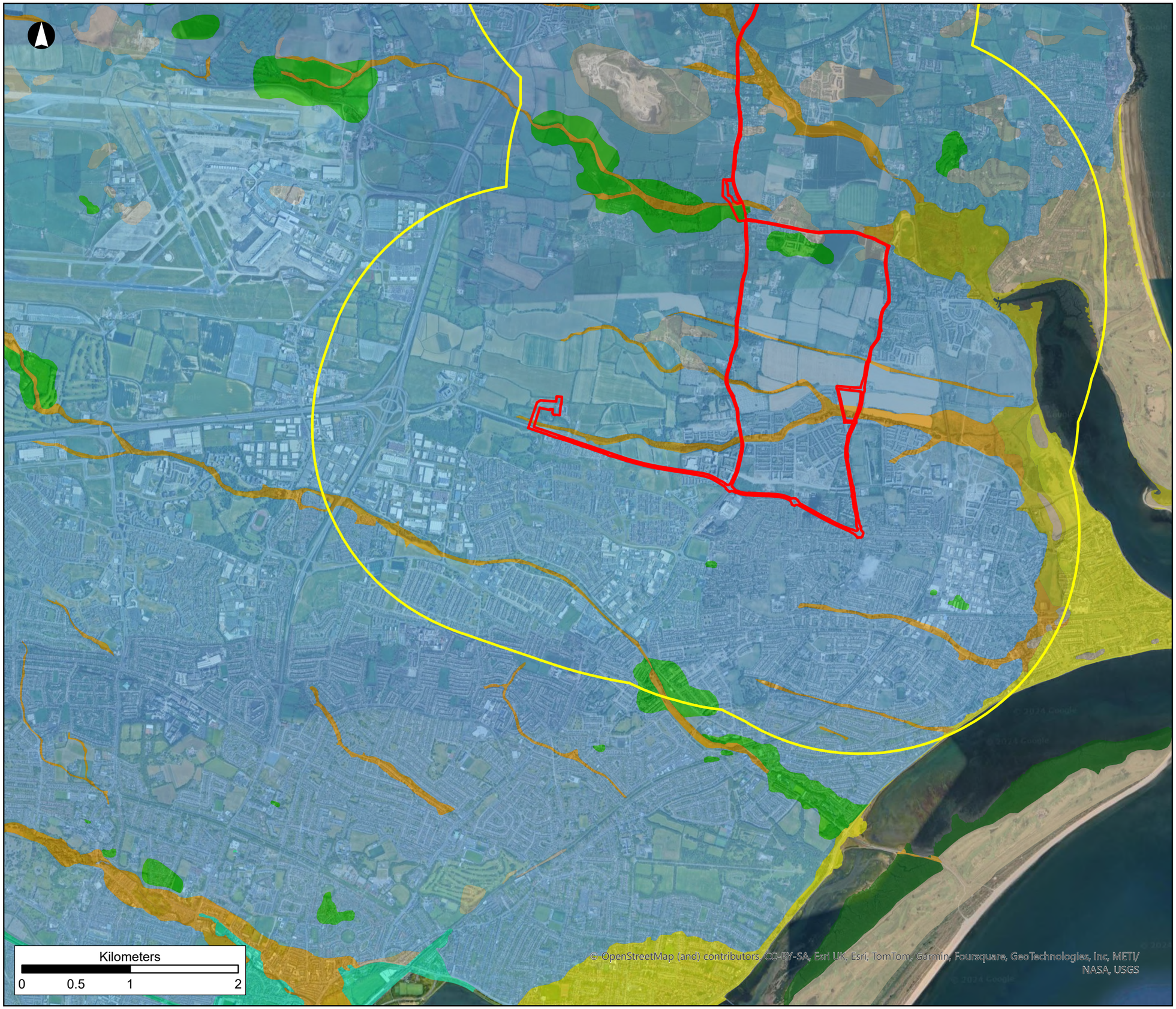
Subsoil Deposits

Sheet 3 of 4

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21.13



Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Quaternary Sediments

- A, Alluvium
- Ag, Alluvium (gravelly)
- As, Alluvium (sandy)
- Embankment
- GLs, Gravels derived from Limestones
- IrSTLs, Irish Sea Till derived from Limestones
- Mbs, Marine beach sands
- Mesc, Esturine silts and clays
- Rck, Bedrock outcrop or subcrop
- TLs, Till derived from limestones
- TdlMr, Tidal Marsh
- Urban
- Ws, Windblown sands
- Wsd, Windblown sands and dunes

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North Irish Sea Array

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North Irish Sea Array Offshore Wind Farm

Figure Title

Subsoil Deposits

Sheet 4 of 4

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Legend

- Study Area
- Proposed Development Boundary

Bedrock Outcrops 100K ITM 2018

- Bedrock Outcrops 100K ITM 2018

Bedrock Linework 100k ITM 2018

- Anticlinal Axis
- Fault
- Synclinal Axis

Bedrock Polygons 100k ITM 2018

- Lucan Formation
- Malahide Formation
- Tober Colleen Formation
- Waulsortian Limestones

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North Irish Sea Array

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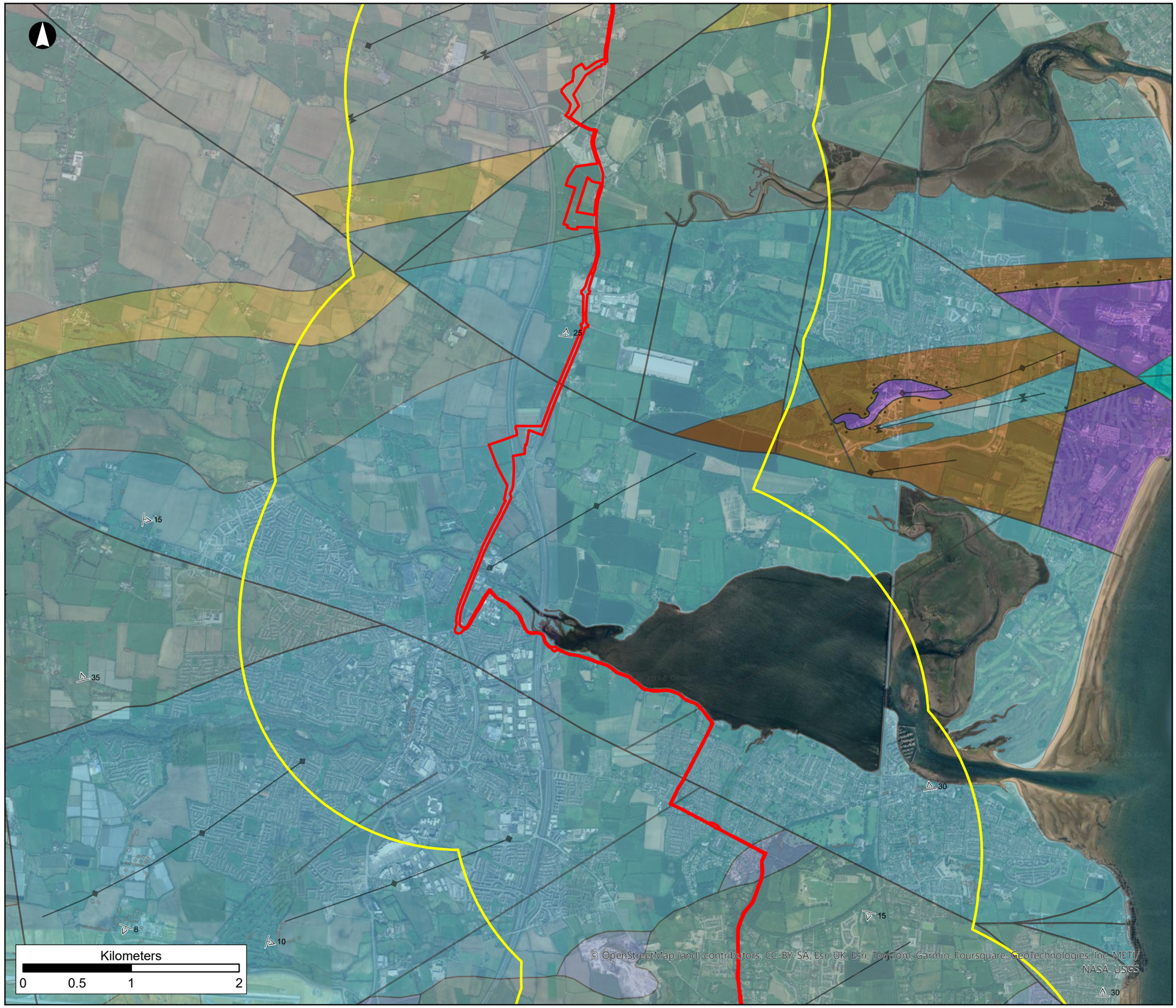
North Irish Sea Array Offshore Wind Farm

Figure Title

Bedrock Geology

Sheet 1 of 4

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Legend

- Study Area
- Proposed Development Boundary

Bedrock Outcrops 100K ITM 2018

- Bedrock Outcrops 100K ITM 2018

Bedrock Linework 100k ITM 2018

- Anticlinal Axis
- Fault
- Synclinal Axis
- Unconformity, dots on younger side

Bedrock Polygons 100k ITM 2018

- Donabate Formation
- Lucan Formation
- Malahide Formation
- Rush Congomerate Formation
- Tober Colleen Formation
- Waulsortian Limestones
- Portrane Volcanic Formation

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North Irish Sea Array

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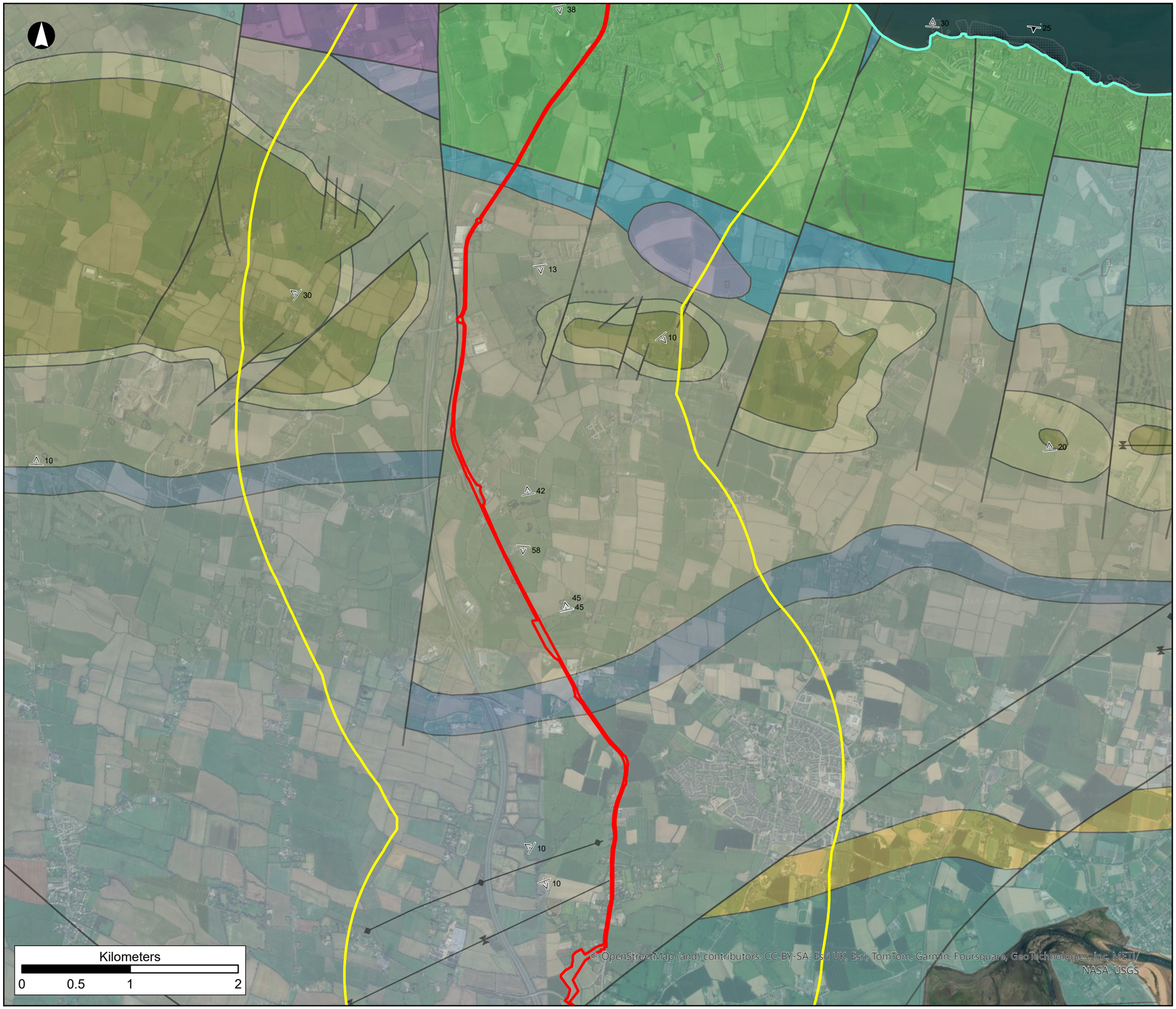
North Irish Sea Array Offshore Wind Farm

Figure Title

Bedrock Geology

Sheet 2 of 4

Job No:	281240	**Figure No:**	**21.14**
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Legend

- Study Area
- Proposed Development Boundary

Bedrock Outcrops 100K ITM 2018

- Bedrock Outcrops 100K ITM 2018

Bedrock Linework 100k ITM 2018

- Anticlinal Axis
- Fault
- Synclinal Axis

Bedrock Polygons 100k ITM 2018

- Belcamp Formation
- Holmpatrick Formation
- Loughshinny Formation
- Lucan Formation
- Mullaghfin Formation
- Naul Formation
- Rush Congomerate Formation
- Tober Colleen Formation
- Balrickard Formation
- Walshestown Formation
- Mudbank Limestone
- Skerries Formation

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North Irish Sea Array

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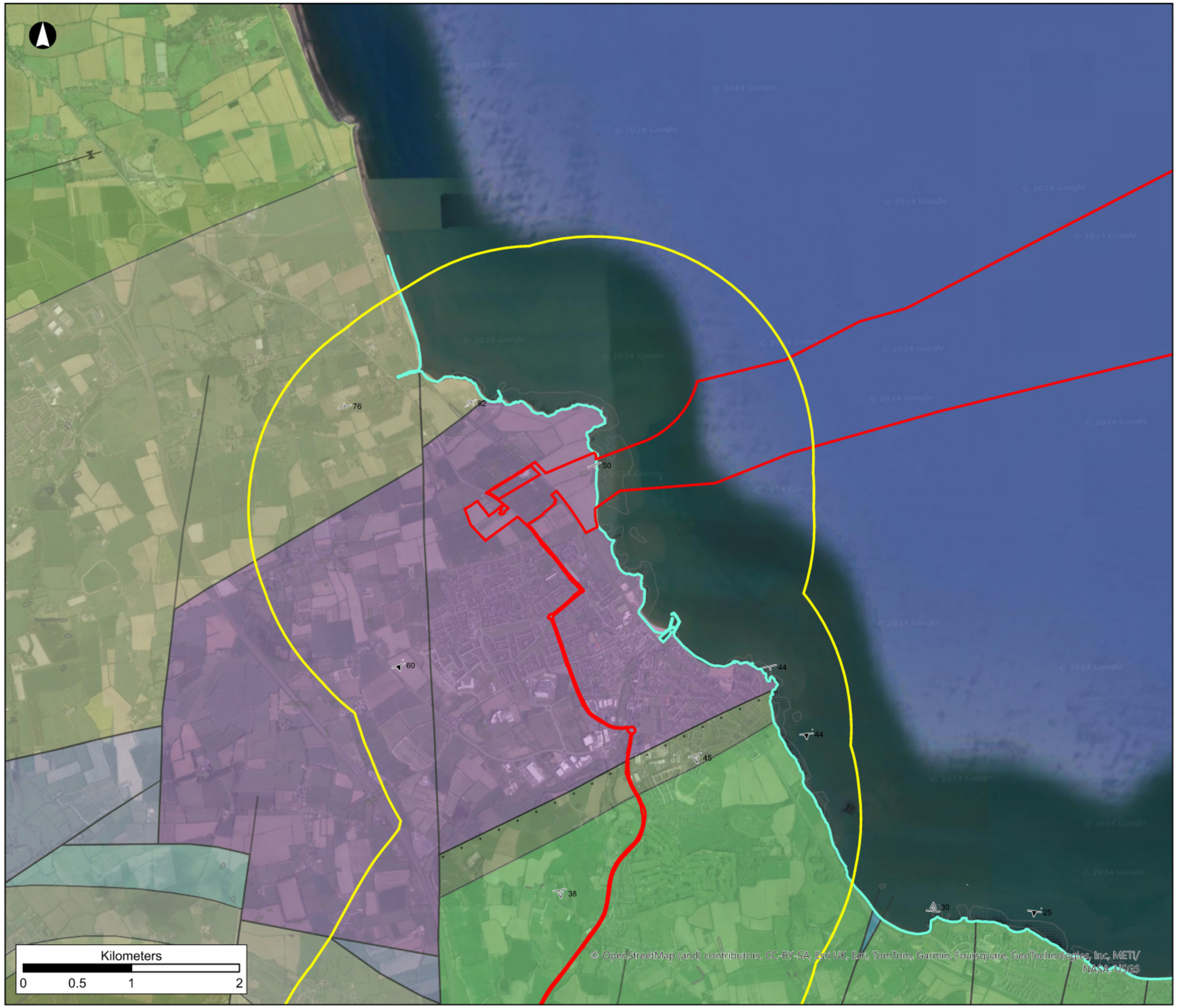
North Irish Sea Array Offshore Wind Farm

Figure Title

Bedrock Geology

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Job No: 281240	**Figure No:**
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Legend

- Study Area
- Proposed Development Boundary

Bedrock Outcrops 100K ITM 2018

- Bedrock Outcrops 100K ITM 2018

Bedrock Linework 100k ITM 2018

- Fault
- Synclinal Axis
- Unconformity, dots on younger side

Bedrock Polygons 100k ITM 2018

- Balbriggan Formation
- Belcamp Formation
- Holmpatrick Formation
- Loughshinny Formation
- Mullaghfin Formation
- Clashford House Formation
- Balrickard Formation
- Clatterstown Formation
- Denhamstown Formation
- Mudbank Limestone
- Skerries Formation

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North Irish Sea Array

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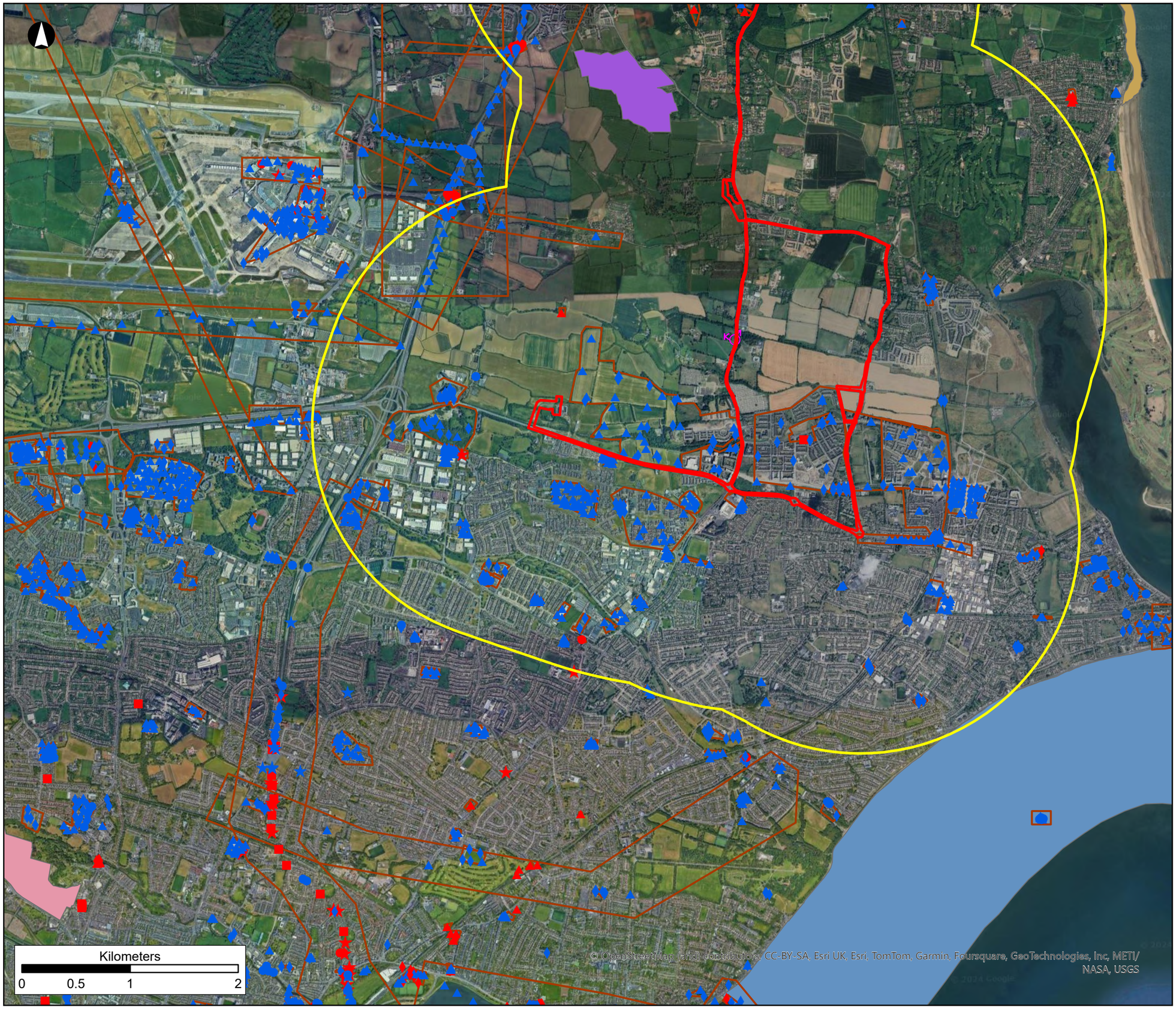
North Irish Sea Array Offshore Wind Farm

Figure Title

Bedrock Geology

Sheet 4 of 4

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Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Geological Heritage Site

- Feltrim Quarry
- Glasnevin Cemetery
- Malahide Coast
- North Bull Island

KARST

- Spring

GSI Geotechnical Boreholes

Hole Depth (metres)

- 0-5m Bedrock Met
- 5-10m Bedrock Met
- 10-20m Bedrock Met
- 20-30m Bedrock Met
- 30-1000m Bedrock Met
- 0-5m Bedrock Not Met
- 5-10m Bedrock Not Met
- 10-20m Bedrock Not Met
- 20-30m Bedrock Not Met
- 30-1000m Bedrock Not Met
- GSI Geotechnical Sites

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North Irish Sea Array

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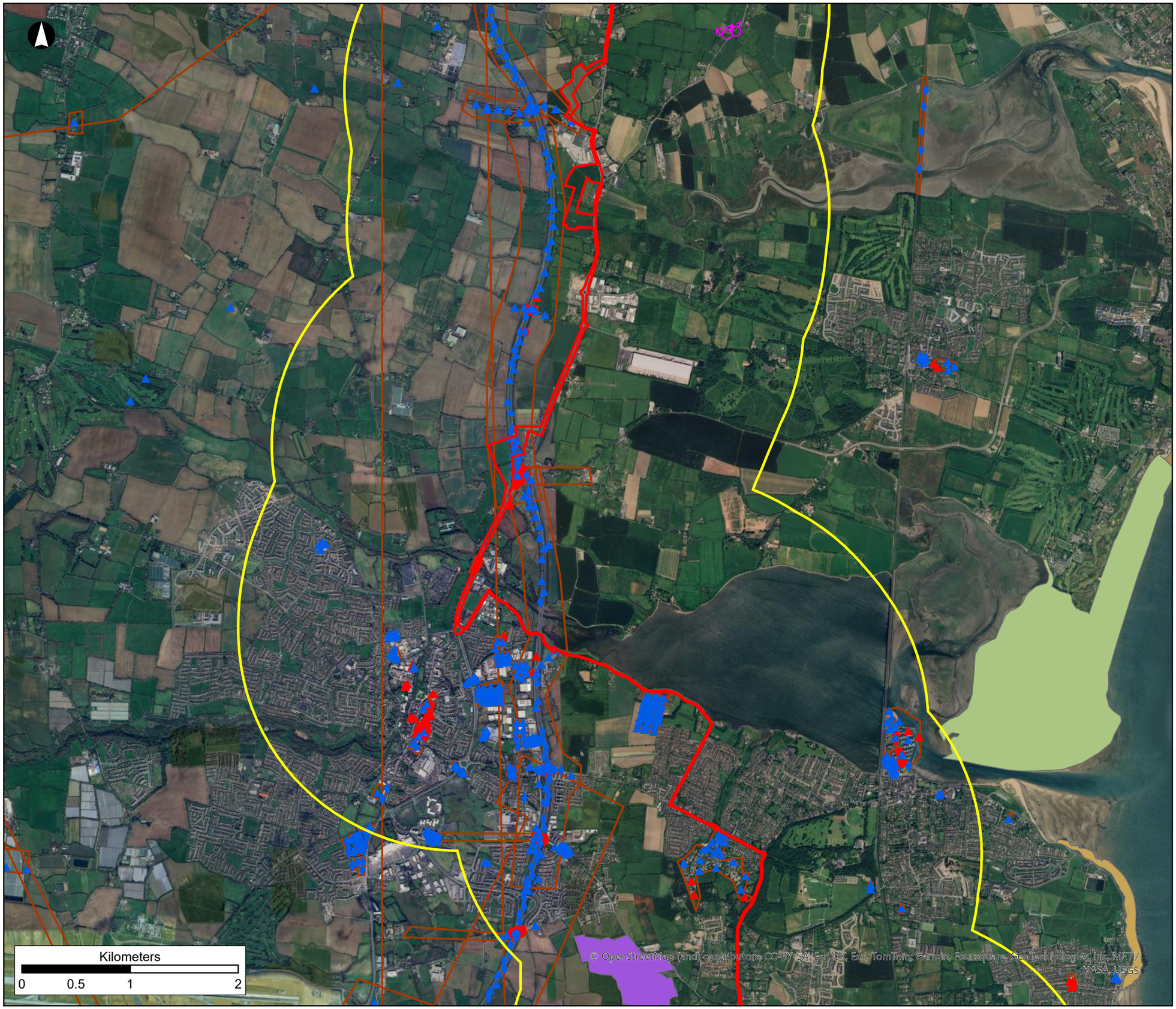
North Irish Sea Array Offshore Wind Farm

Figure Title

Geological Features

Sheet 1 of 4

Job No:	281240	**Figure No:**	**21.15**
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Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Geological Heritage Site

- Feltrim Quarry
- Malahide Coast
- Malahide Point
- Portraine Shore

KARST

- Spring

GSI Geotechnical Boreholes

Hole Depth (metres)

- 0-5m Bedrock Met
- 5-10m Bedrock Met
- 10-20m Bedrock Met
- 20-30m Bedrock Met
- 30-1000m Bedrock Met
- 0-5m Bedrock Not Met
- 5-10m Bedrock Not Met
- 10-20m Bedrock Not Met
- 20-30m Bedrock Not Met
- 30-1000m Bedrock Not Met
- GSI Geotechnical Sites

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North Irish Sea Array

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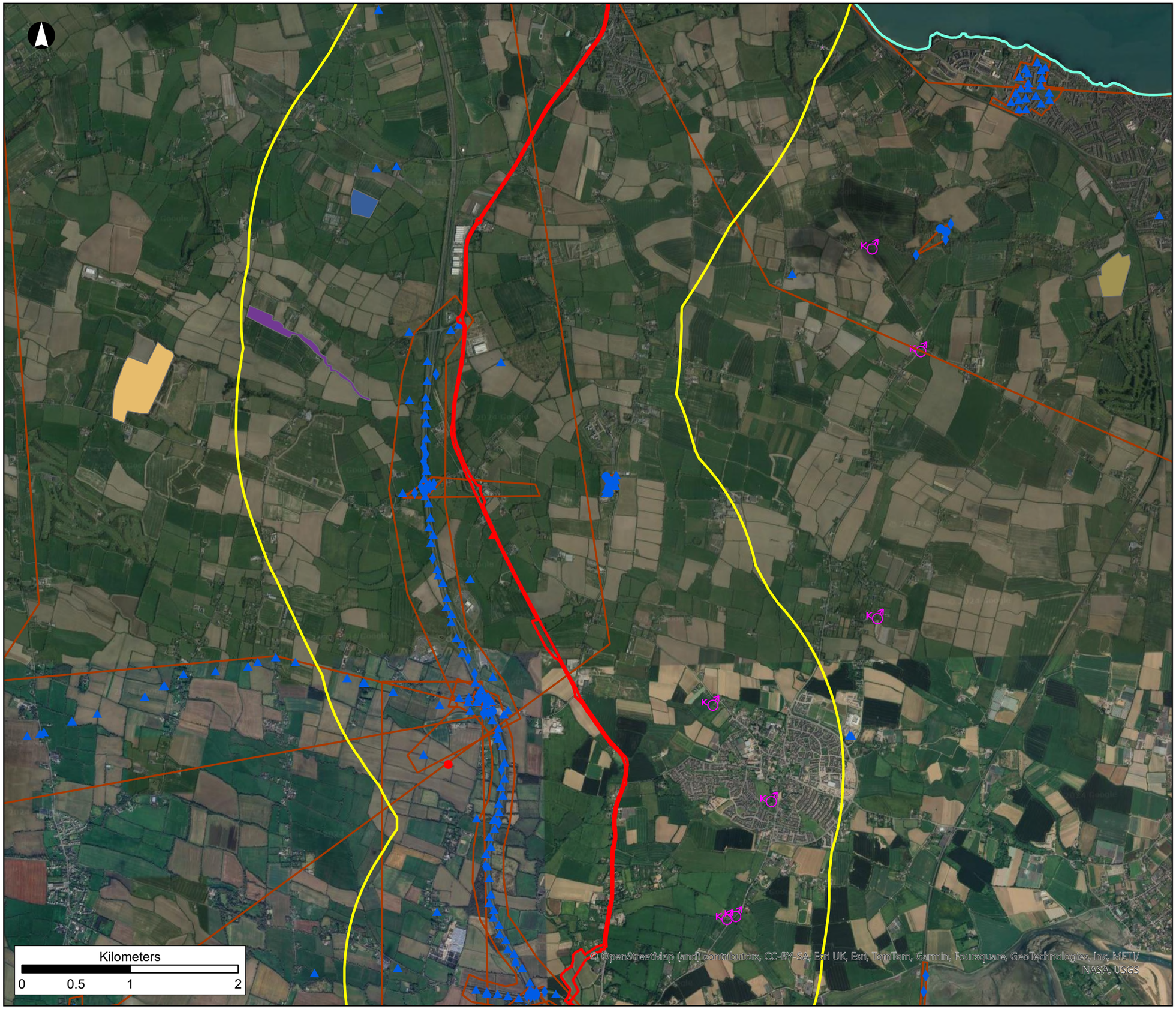
North Irish Sea Array Offshore Wind Farm

Figure Title

Geological Features

Sheet 2 of 4

Job No:	281240	**Figure No:**	**21.15**
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Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Geological Heritage Site

- Ardgillan House Boulder
- Balrickard Quarry
- Milverton Quarry
- Nags Head Quarry
- Walshestown Stream Section

KARST

- Spring

GSI Geotechnical Boreholes

Hole Depth (metres)

- 0-5m Bedrock Met
- 5-10m Bedrock Met
- 10-20m Bedrock Met
- 20-30m Bedrock Met
- 30-1000m Bedrock Met
- 0-5m Bedrock Not Met
- 5-10m Bedrock Not Met
- 10-20m Bedrock Not Met
- 20-30m Bedrock Not Met
- 30-1000m Bedrock Not Met
- GSI Geotechnical Sites

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North Irish Sea Array

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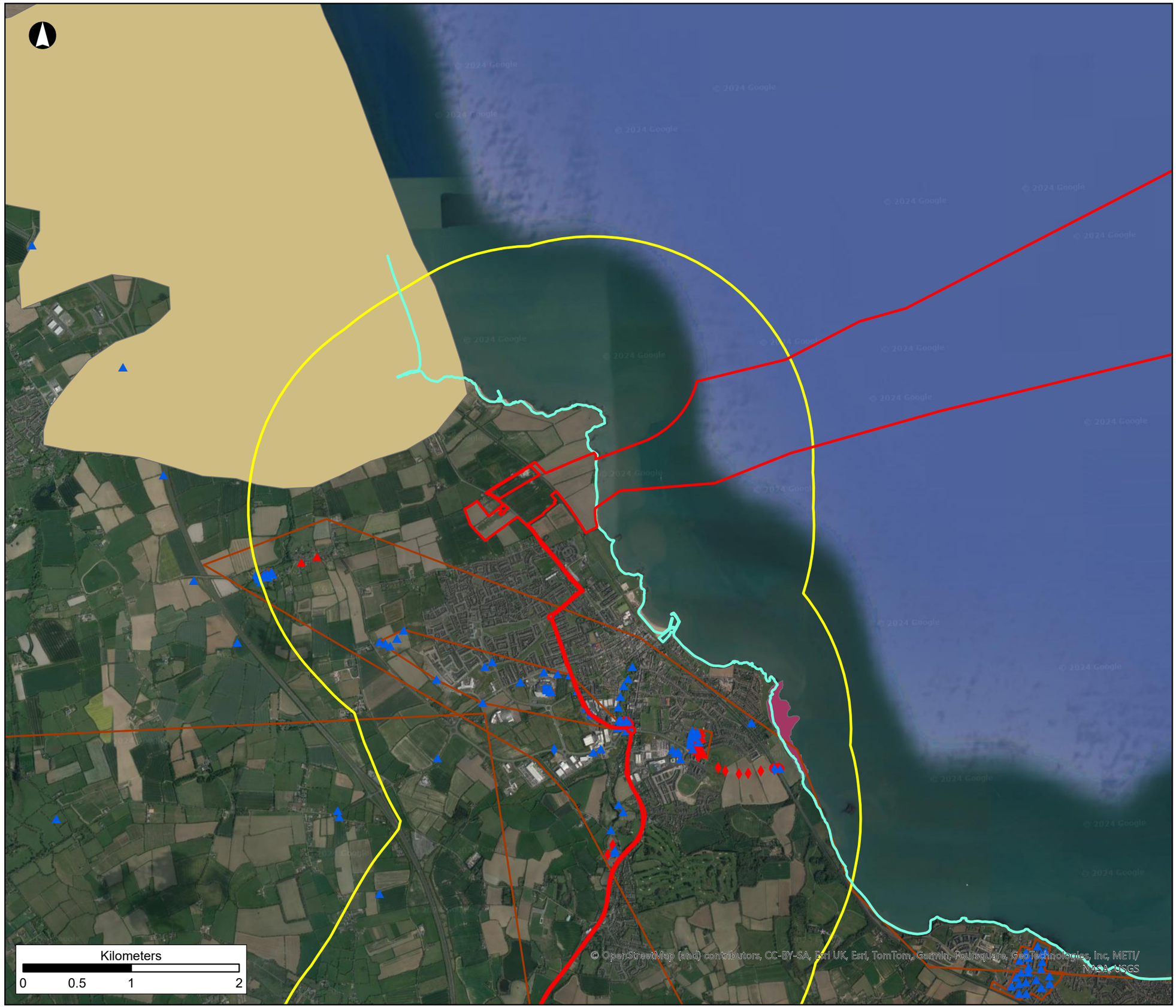
North Irish Sea Array Offshore Wind Farm

Figure Title

Geological Features

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Legend

- Study Area
- Proposed Development Boundary
- High Water Mark

GSI Geological Heritage Site

- Ardgillan House Boulder
- Benhead
- Fancourt Shore
- Laytown to Gormanston

GSI Geotechnical Boreholes

Hole Depth (metres)

- 0-5m Bedrock Met
- 5-10m Bedrock Met
- 10-20m Bedrock Met
- 20-30m Bedrock Met
- 30-1000m Bedrock Met
- 0-5m Bedrock Not Met
- 5-10m Bedrock Not Met
- 10-20m Bedrock Not Met
- 20-30m Bedrock Not Met
- 30-1000m Bedrock Not Met
- GSI Geotechnical Sites

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North Irish Sea Array

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North Irish Sea Array Offshore Wind Farm

Figure Title

Geological Features

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