



# **Spiorad na Mara Offshore Wind Farm**

## **Offshore Project**

### **Environmental Impact Assessment Report**

#### **Chapter 10: Marine Sediment and Water Quality - Figures, Volume 2b**

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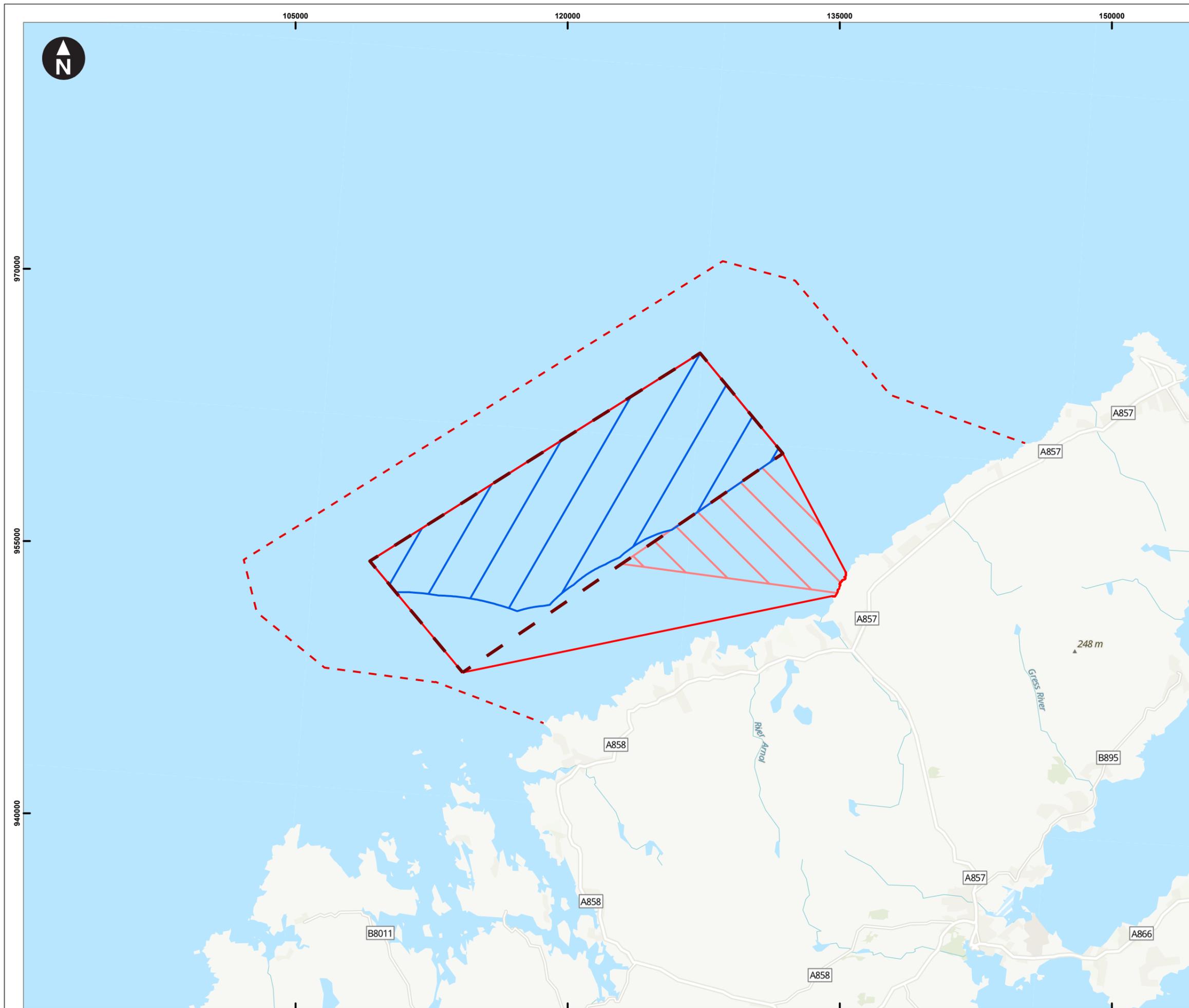
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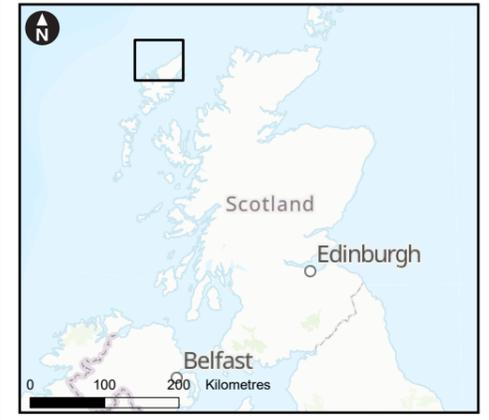
Figure number	Figure Title	Revision	Revision Date
Figure 10.1	Marine Sediment and Water Quality Study Area	Rev A	February 2026
Figure 10.2	Water Framework Directive Protected Areas, Water Bodies, Marine Protected Areas for Marine Sediment and Water Quality	Rev A	February 2026
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Key

-  Offshore Project Boundary
-  Array Area
-  Turbine Area
-  Offshore Cable Area of Search
-  Sediment Transport Worst Case Scenario



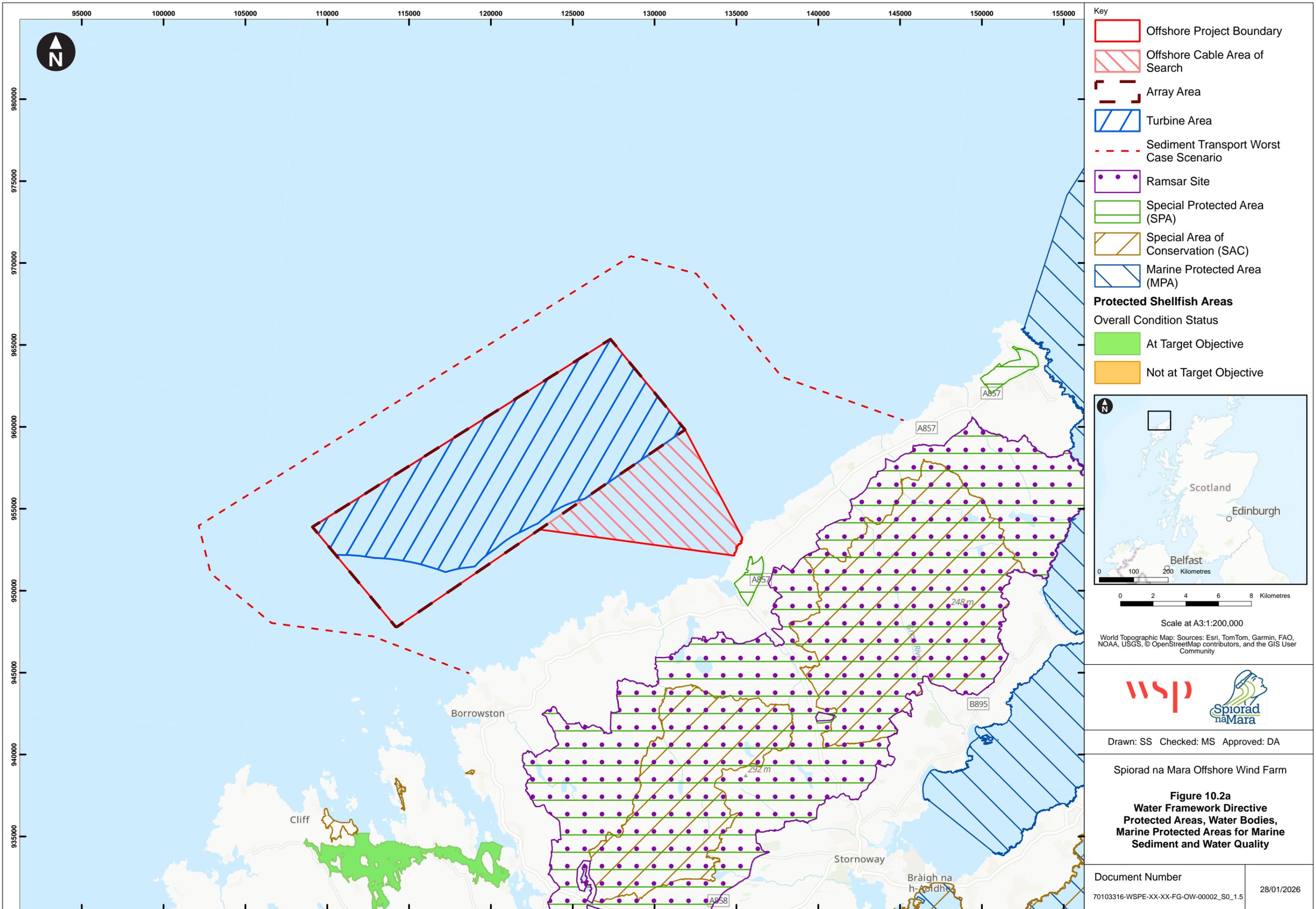
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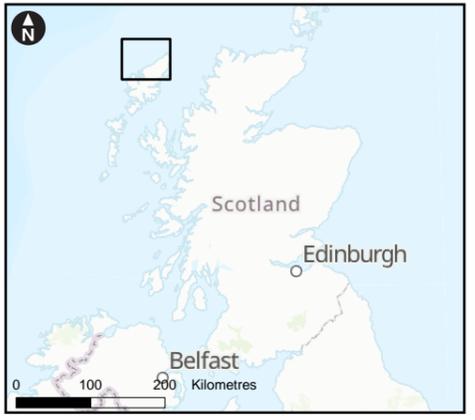
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**Figure 10.1**  
**Marine Sediment and Water Quality**  
**Study Area**



- Key**
- Offshore Project Boundary
  - Offshore Cable Area of Search
  - Array Area
  - Turbine Area
  - Sediment Transport Worst Case Scenario
  - Ramsar Site
  - Special Protected Area (SPA)
  - Special Area of Conservation (SAC)
  - Marine Protected Area (MPA)
- Protected Shellfish Areas**
- Overall Condition Status**
- At Target Objective
  - Not at Target Objective



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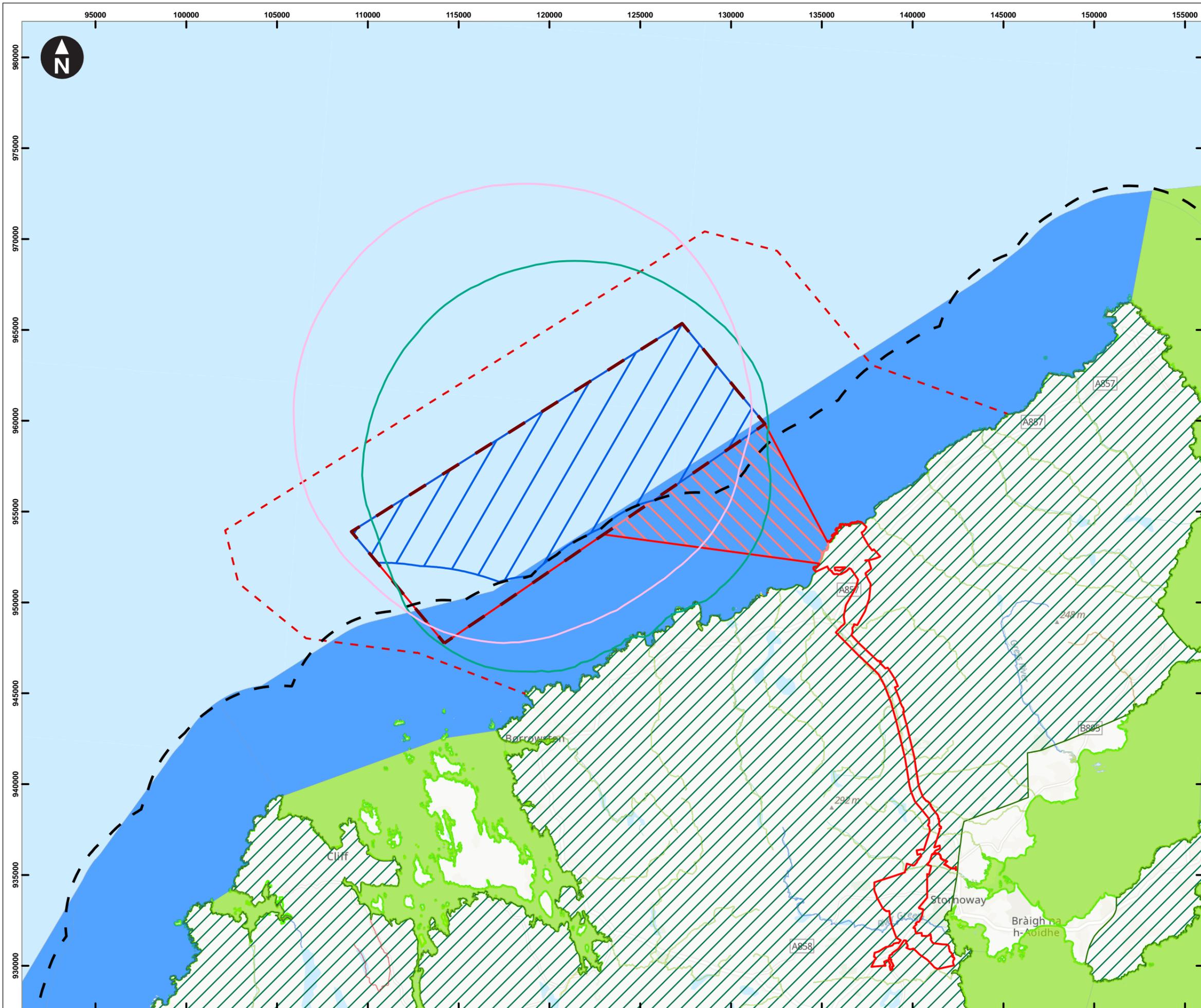
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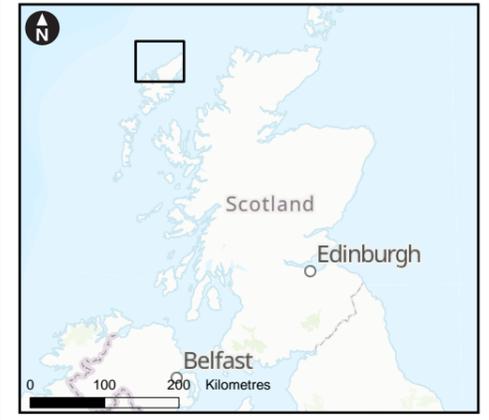
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**Figure 10.2a**  
**Water Framework Directive**  
**Protected Areas, Water Bodies,**  
**Marine Protected Areas for Marine**  
**Sediment and Water Quality**



- Key**
- Project Boundary
  - Offshore Cable Area of Search
  - Turbine Area
  - Peak Spring Tidal Excursion Ellipse
  - Sediment Transport Worst Case Scenario
  - L1 UW SEL -12dB 186 dBht Level
  - L4 UW SEL -12dB 186 dBht Level
- Water Classification; Coastal Waters**
- High Status/Potential
  - Good Status/Potential
- Water Classification: Groundwater**
- Good Status/Potential
- Water Classification; Rivers**
- High Status/Potential
  - Good Status/Potential
  - Moderate Status/Potential
  - Poor Status/Potential
  - Bad Status/Potential



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 Open Hydrography:  
 World Topographic Map: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



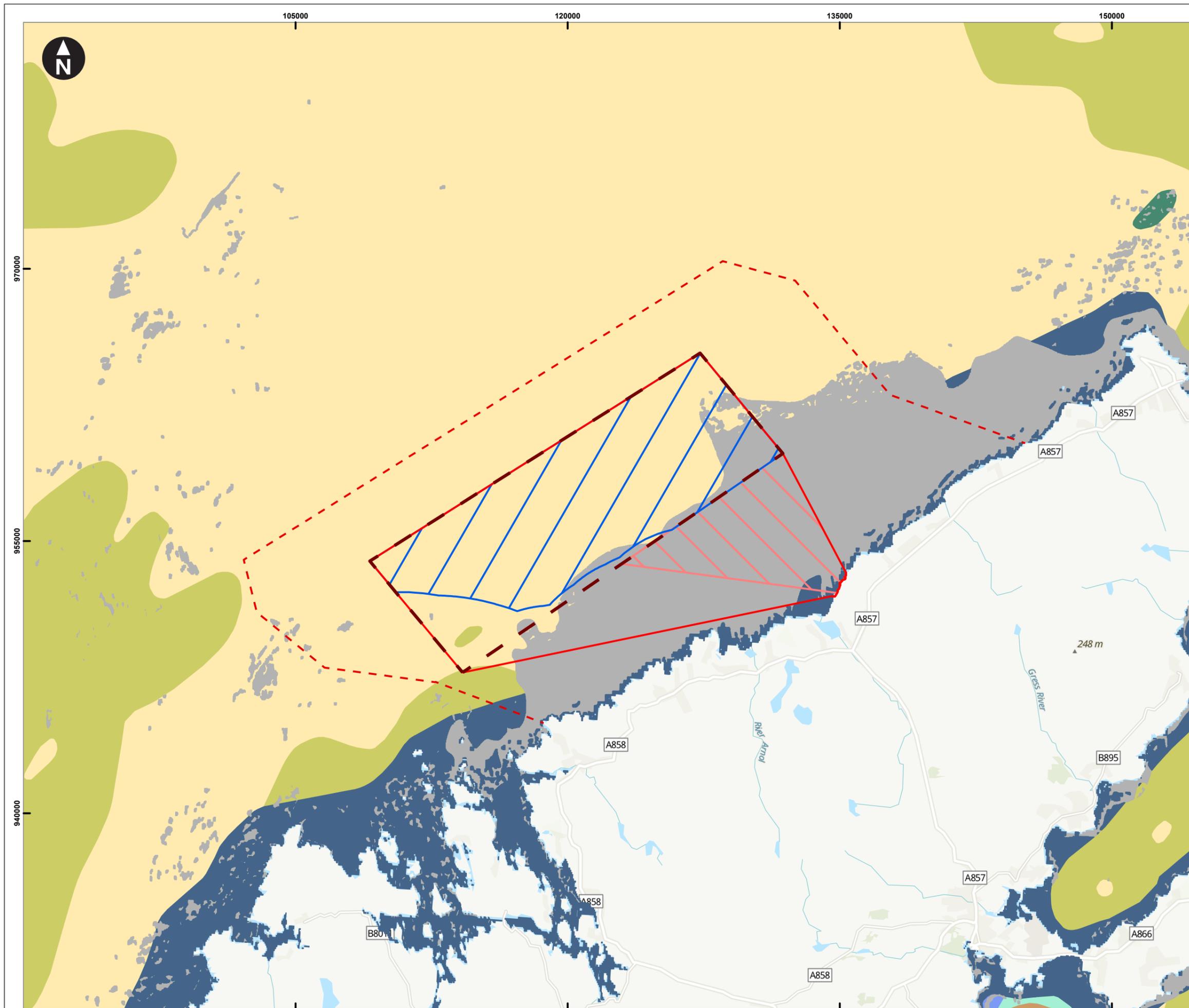
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**Figure 10.2b**  
**Water Framework Directive**  
**Protected Areas, Water Bodies,**  
**Marine Protected Areas for Marine**  
**Sediment and Water Quality**

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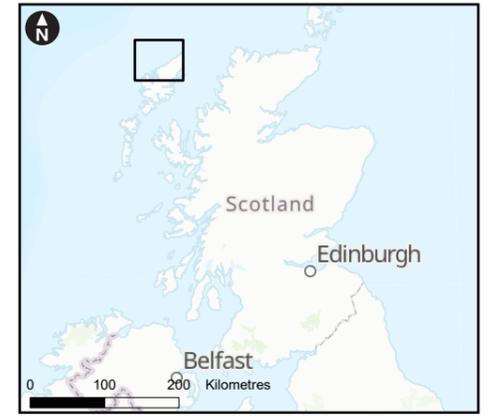


**Key**

- Offshore Project Boundary
- Offshore Cable Area of Search
- Array Area
- Turbine Area
- Sediment Transport Worst Case Scenario

**Substrate**

- Coarse substrate
- Mixed sediment
- Muddy sand
- Rock or other hard substrata
- Sand
- Sandy mud
- Seabed



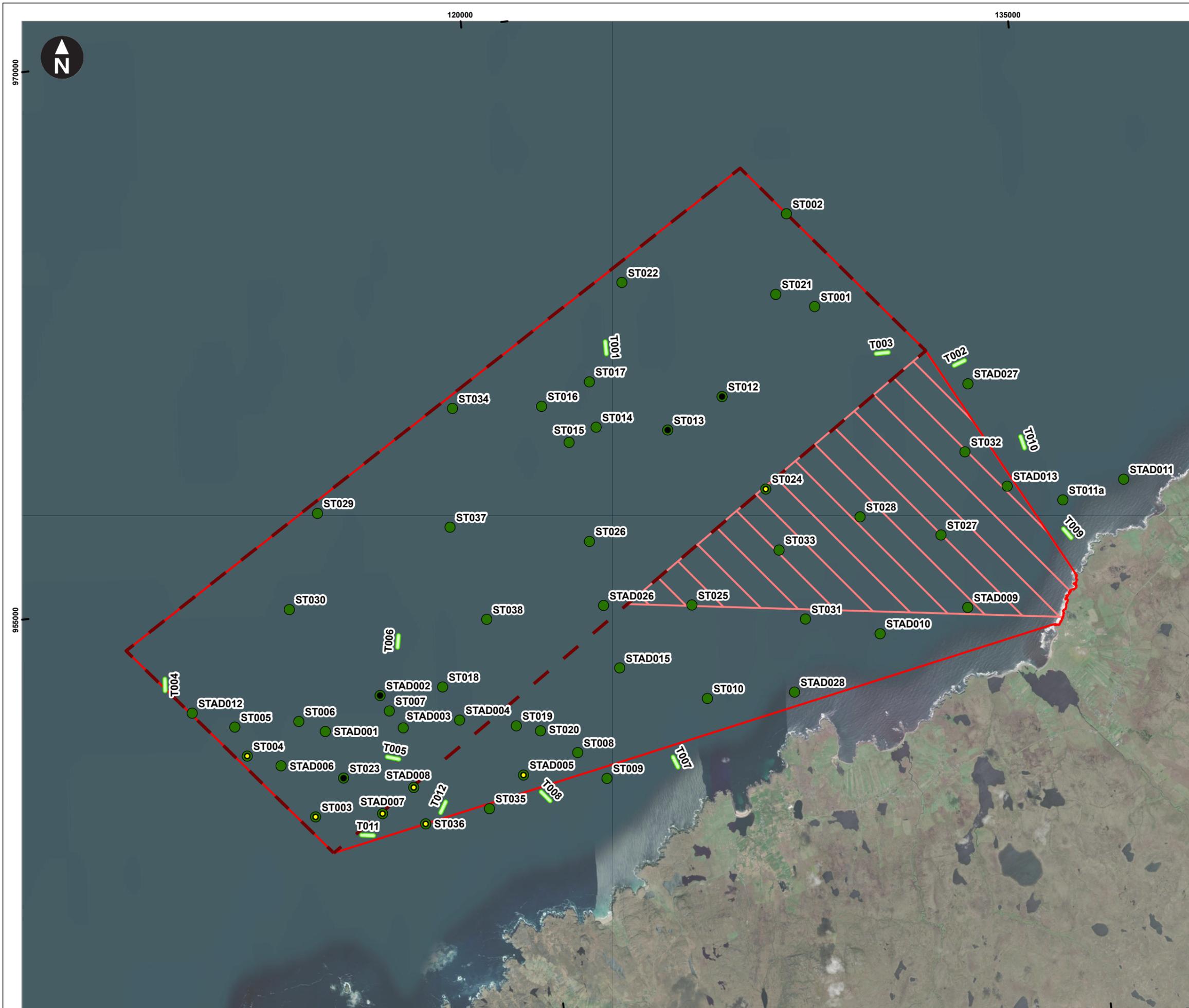
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**Figure 10.3**  
**Seabed and Habitat Types from**  
**EMODnet**

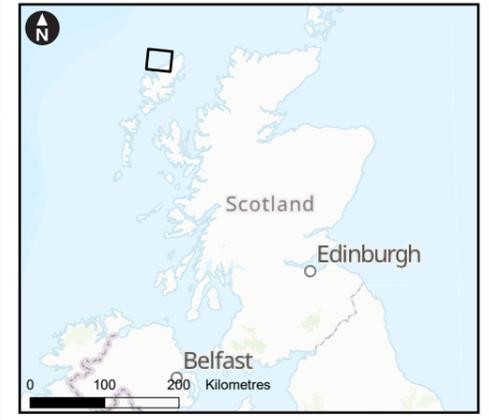


**Key**

- Offshore Development Area Boundary
- Offshore Cable Area of Search
- Array Area
- DDC Stations
- DDC Transects

**Grab Stations**

- Mac/PSD Only
- Mac/PSD/Chemical



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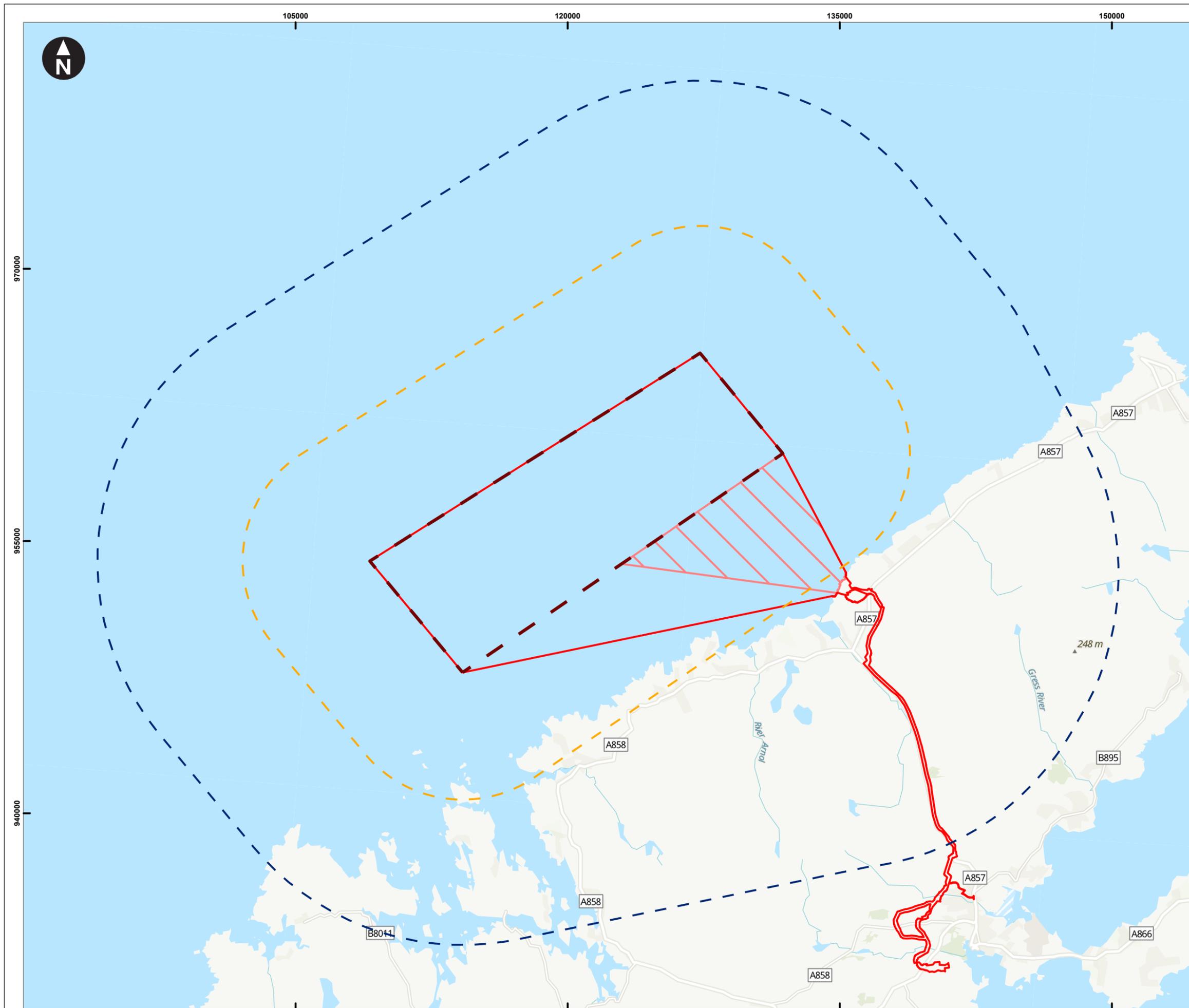
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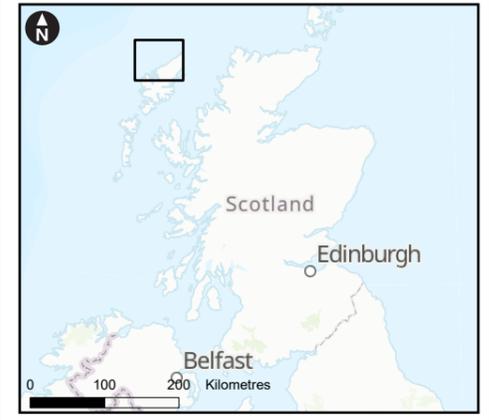
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**Figure 10.4**  
**Locations of successful grab sampling**



- Key
- Project Development Area Boundary
  - Offshore Cable Area of Search
  - Array Area
  - Water Quality Study Area
  - Marine Sediment and Water Quality Zone of Influence (ZOI)



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**Figure 10.5**  
**Marine Sediment and Water Quality**  
**Zone of Influence**