

# Mersey Tidal Power

EIA Scoping Report: Volume 2a Figures  
Chapters 1 - 8

September 2024

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# Mersey Tidal Power

EIA Scoping Report: Volume 2a Figures

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## Document History

Version	Author	Reviewer	Approver	Date	Comments
A0	WSP	Mersey Tidal Power	Mersey Tidal Power	13/09/24	Final



## Contents

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### Figures

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Figure 1.1 Scoping Area

Figure 2.1 Development Areas

Figure 2.2 Marine Environment

Figure 2.3 Designated Sites

Figure 2.4 Other Features

Figure 2.5 Grid Connection Points

Figure 3.1 Marine Licence Boundary

Figure 5.1 Coastal Processes Study Areas

Figure 5.2 Locations of baseline data sources

Figure 5.3 Locations of WFD Waterbodies

Figure 5.4 Coastal Processes Designated Sites

Figure 6.1 Benthic Ecology and Plankton Study Area

Figure 6.2 Intertidal habitats within the Benthic Ecology and Plankton Study Area

Figure 6.3 Intertidal habitats within the Benthic Ecology and Plankton Study Area (RSK, 2024)

Figure 6.4 EUSeaMap (2023) seabed habitats and Cefas (2024) OneBenthic faunal clusters within the Benthic Ecology and Plankton Study Area

Figure 6.5 Designated sites within the Study Area

Figure 7.1 INNS Study Area

Figure 7.2 Marine INNS identified within the INNS Study Area

Figure 7.3 Terrestrial INNS identified within the INNS Study Area

Figure 7.4 Freshwater INNS identified within the INNS Study Area

Figure 8.1 Marine Mammal Regional Study Areas - Bottlenose dolphin and Harbour porpoise

Figure 8.2 Marine Mammal Regional Study Areas - Minke whale, Risso's dolphin, Common dolphin, Harbour seal and Grey seal

Figure 8.3 Marine Mammal Study Area

Figure 9.1 Marine and Intertidal Ornithology Study Area

Figure 9.2 Marine and Intertidal Ornithology Survey Areas

Figure 9.3 Marine and Intertidal Ornithology SPA and Ramsar Sites

Figure 9.4 Marine and Intertidal Ornithology SSSIs and NNR Sites

Figure 10.1 Fish and Shellfish Study Area

Figure 10.2 Fish and Shellfish Spawning and Nursery Grounds - Cod, Mackerel, Plaice, Sandeel

Figure 10.3 Fish and Shellfish Spawning and Nursery Grounds - Sole, Whiting, Sprat, Ling

Figure 10.4 Fish and Shellfish Spawning and Nursery Grounds - Herring, Anglerfish, Spotted Ray, Thornback ray

Figure 10.5 Fish and Shellfish Spawning and Nursery Grounds - Tope shark, Spurdog

Figure 10.6 Designated Fish and Shellfish Features

Figure 10.7 Fish and Shellfish Survey Locations

Figure 11.1 Commercial Fisheries Study Area

Figure 13.1 Statutory Designated Biodiversity Sites of International Importance - Special Areas of Conservation

Figure 13.2 Statutory Designated Biodiversity Sites of International Importance – Special Protection Areas and Ramsar

Figure 13.3 Statutory Designated Biodiversity Sites of National Importance

Figure 13.4 Statutory Designated Biodiversity Sites of Local Importance

Figure 13.5 Ancient Woodland and Habitats of Principal Importance

Figure 16.1 Shipping and Navigation Study Area

Figure 16.2 Passenger and Ferry Vessel Tracks

Figure 16.3 Tanker and Cargo Vessel Tracks

Figure 16.4 Tug & Service and Recreational Vessel Tracks

Figure 16.5 Vessel Tracks by Size

Figure 17.1 Marine Cultural Heritage & Archaeology Study Area

Figure 18.1 Terrestrial Cultural Heritage & Archaeology Study Area

Figure 18.2 Terrestrial Cultural Heritage & Archaeology Study Area

Figure 21.1 Baseline Air Quality and Constraints

Figure 22.1 Noise Important Areas

Figure 22.2 Daytime Road Traffic Noise Levels, dB LAeq16hr

Figure 22.3 Night-time Road Traffic Noise Levels, dB Lnight

Figure 23.1 Geology and Ground Conditions - Study Areas

Figure 23.2 Artificial Ground

Figure 23.3 Superficial Deposits

Figure 23.4 Bedrock Geology

Figure 23.5 Agricultural Land Classification (Provisional)

Figure 23.6 Agricultural Land Classification (Post 1988)

Figure 23.7 Authorised and Historic Landfill Sites

Figure 25.1 Mersey Barrage Zone of Theoretical Visibility

Figure 26.1 Offshore Infrastructure

Figure 26.2 Onshore Renewable Energy Projects

Figure 26.3 Utilities - Electricity

Figure 26.4 Water utilities

Figure 26.5 Marine Disposal Sites

Figure 26.6 Recreational activities within the Tidal Barrage Development Area

Figure 26.7 Recreational Activities - Green Spaces

Figure 27.1 Controlled Airspaces

Figure 27.2 Radar locations

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Key  
 Scoping Boundary

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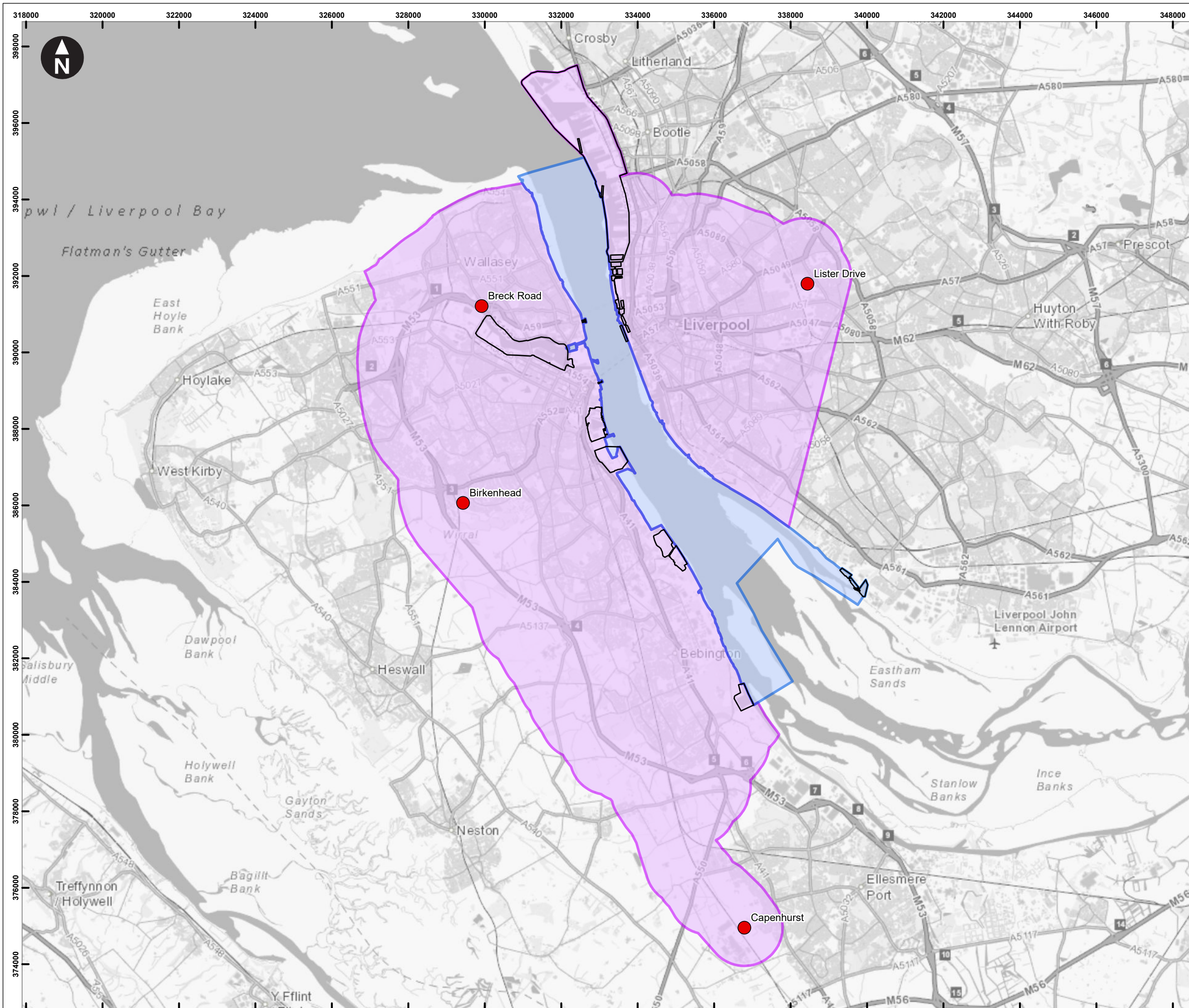


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Mersey Tidal Power Scoping Report  
 Chapter 1: Introduction

**Figure 1.1 Scoping Boundary**





**Key**

- Tidal Barrage Development Area
- Grid Connection Development Area
- Port Facilities and Key Infrastructure Area
- Grid Connection Points

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 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020

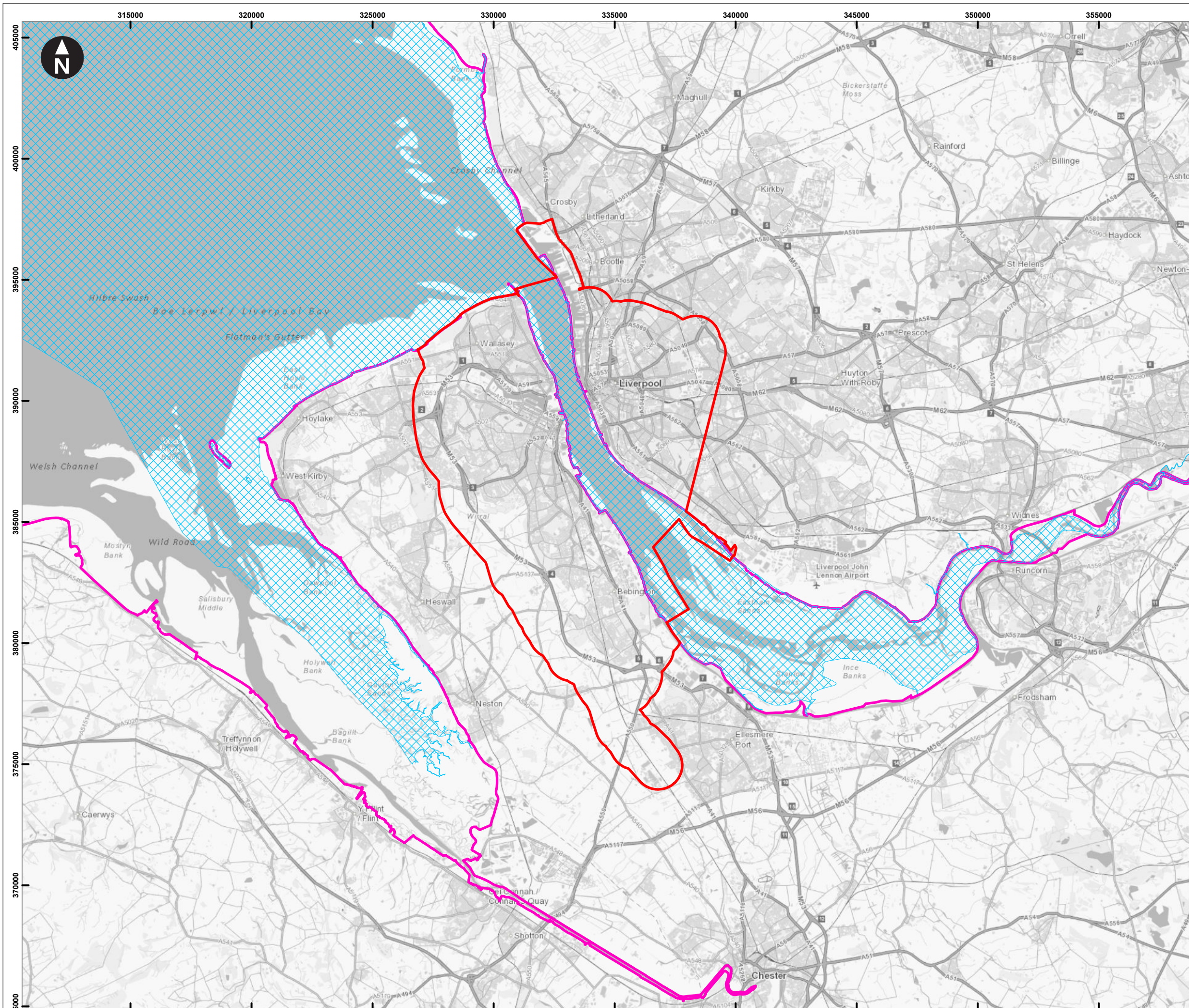


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Mersey Tidal Power Scoping Report  
 Chapter 2: Site Context and Project Description

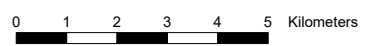
**Figure 2.1 Development Areas**





**Key**

- Scoping Boundary
- Marine plan areas
- Shoreline Management Plan allocations



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 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020

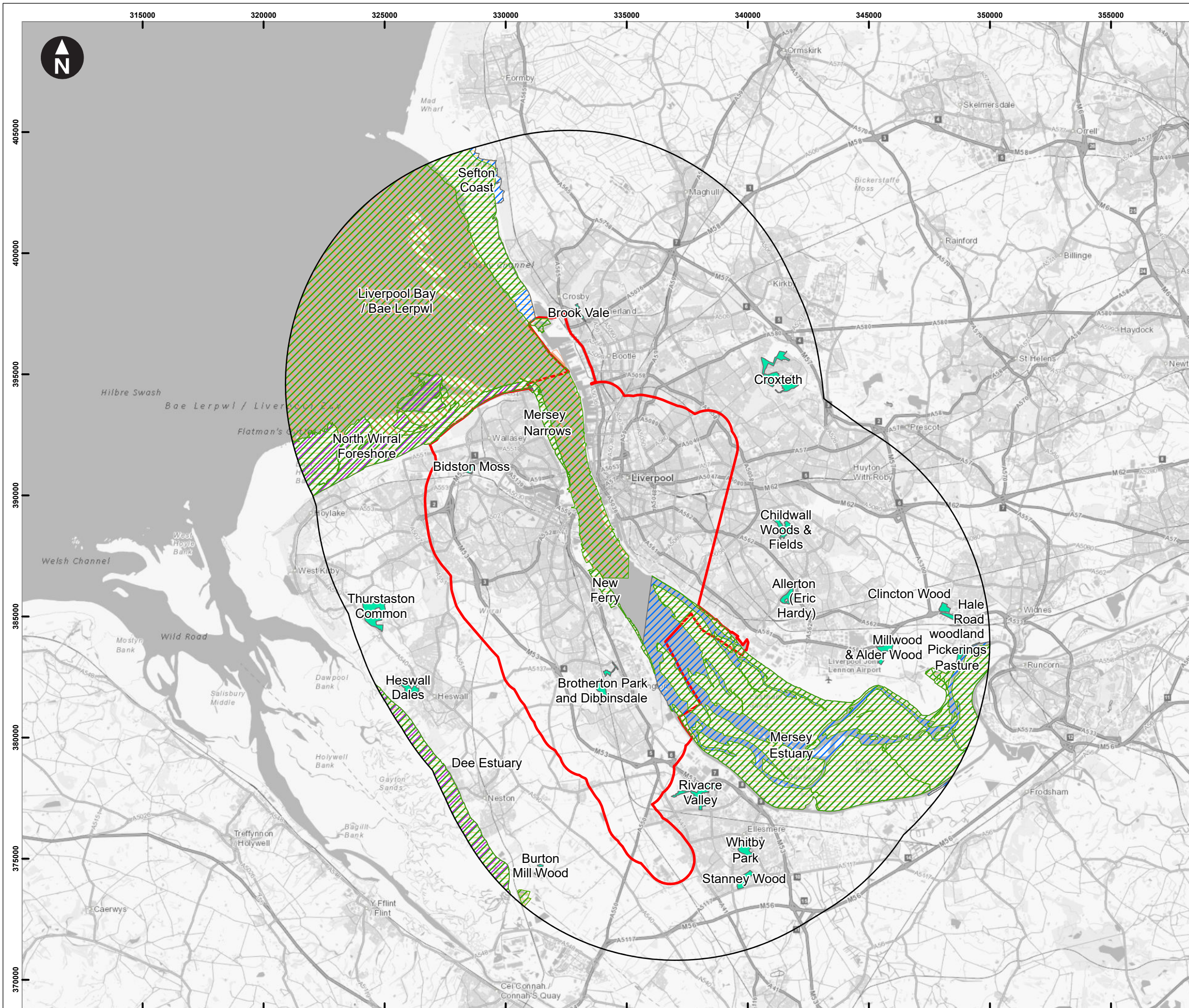


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Mersey Tidal Power Scoping Report  
 Chapter 2: Site Context and Project Description  
**Figure 2.2 Marine Environment**

Document Number	10/09/2024
MTP-WSP-00-ZZ-MP-EN-0002-S8-P04- EIA Scoping-Ch2-Figure 2.2 Marine Development	





- Key**
- Scoping Boundary
  - Tidal Barrage Development Area 10km buffer
  - Ramsar
  - Special Protection Area (SPA)
  - Special Area of Conservation (SAC)
  - Site of Special Scientific Interest (SSSI)
  - Marine Protection Area (MPA)
  - Local Nature Reserve (LNR)

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 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020

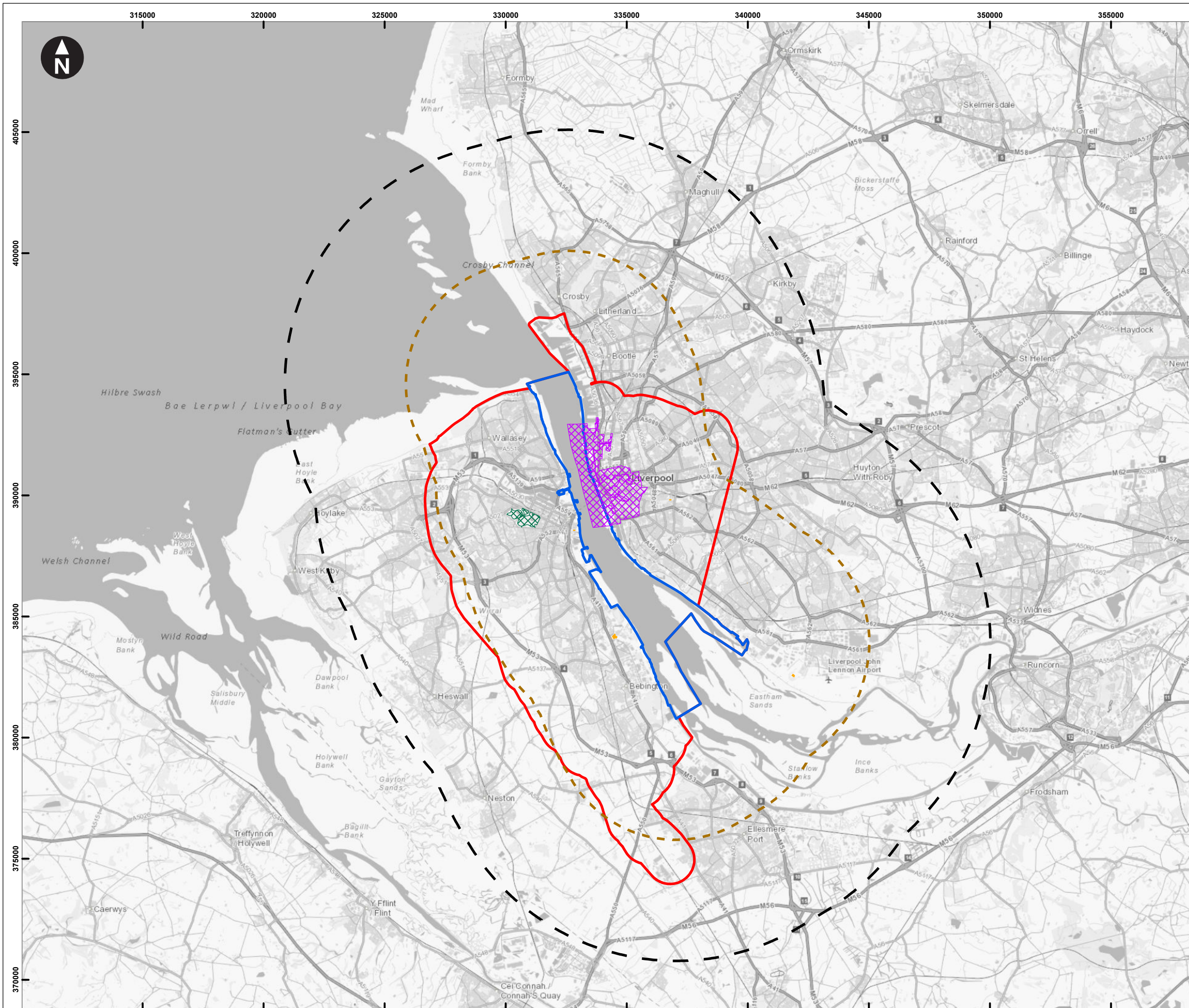


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Mersey Tidal Power Scoping Report  
 Chapter 2: Site Context and Project Description  
**Figure 2.3 Designated Sites**

Document Number <small>MTP-WSP-00-ZZ-MP-EN-0003-S8-P03-          EIA Scoping-Ch2-Figure 2.3 Designated Sites</small>	06/09/2024
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- Key**
- Scoping Boundary
  - Tidal Barrage Development Area
  - Tidal Barrage Development Area 5km buffer
  - Tidal Barrage Development Area 10km buffer
  - Scheduled Monuments
  - Birkenhead Park (proposed UNESCO site)
  - Liverpool - Maritime Mercantile City (former UNESCO site)

0 1 2 3 4 5 Kilometers  
 Scale at A3: 1:150,000  
 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020



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Mersey Tidal Power Scoping Report  
 Chapter 2: Site Context and Project Description  
**Figure 2.4 Other Features**

Document Number <small>MTP-WSP-00-ZZ-MP-EN-0004-S8-P04-          EIA Scoping-Ch2-Figure 2.4 Other Features</small>	09/09/2024
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**Key**

- Scoping Boundary
- Grid Connection Points
- Grid Connection 1km buffer

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 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020

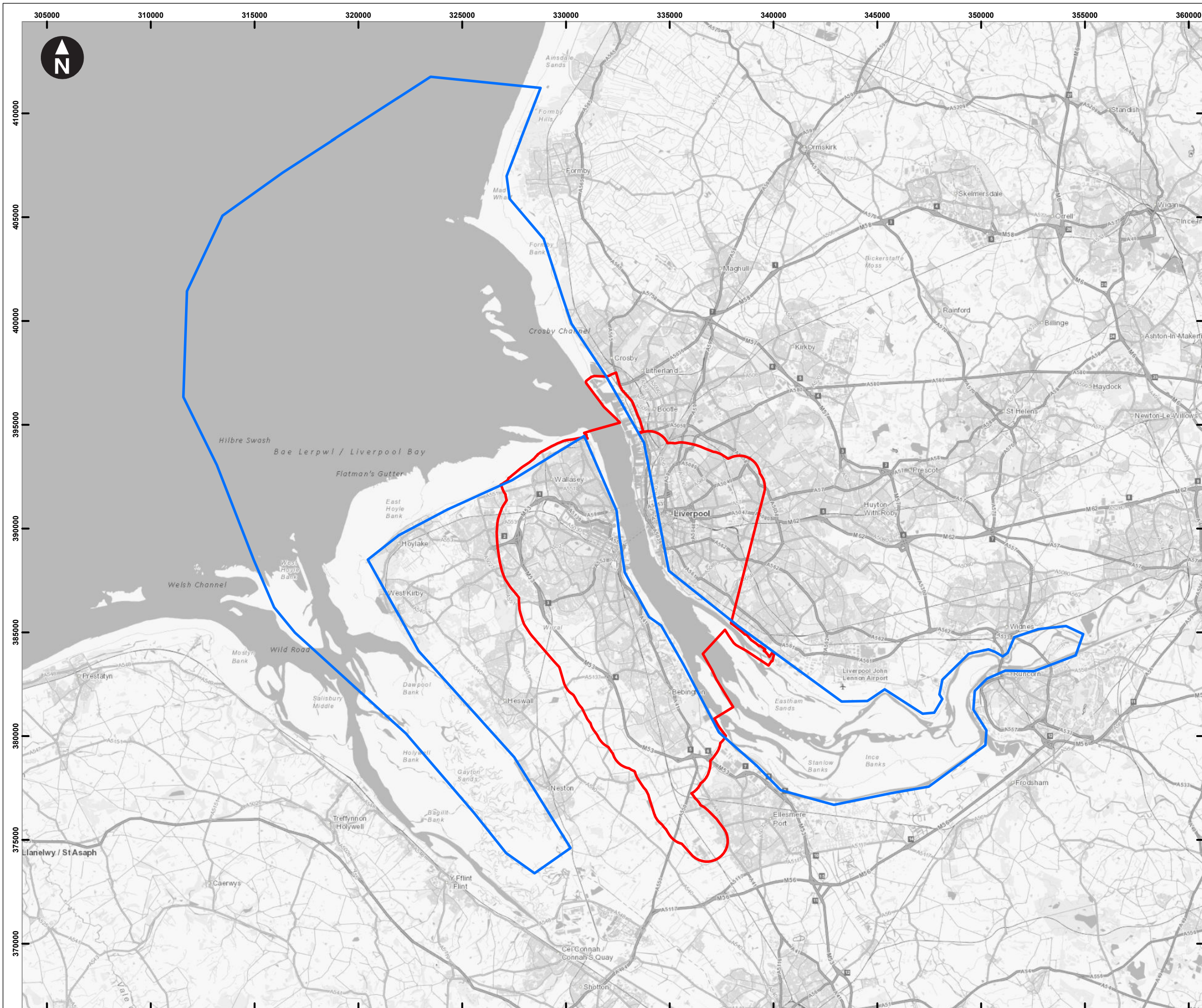


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Mersey Tidal Power Scoping Report  
 Chapter 2: Site Context and Project Description  
**Figure 2.5 Grid Connection Points**

Document Number <small>MTP-WSP-00-ZZ-MP-EN-0005-S8-P03-          EIA Scoping-Ch2-Figure 2.5 Grid Connection Points</small>	06/09/2024
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**Key**

- Scoping Boundary
- Marine Licence Boundary

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 OS Open Greyscale: Contains OS data © Crown Copyright and database right 2020

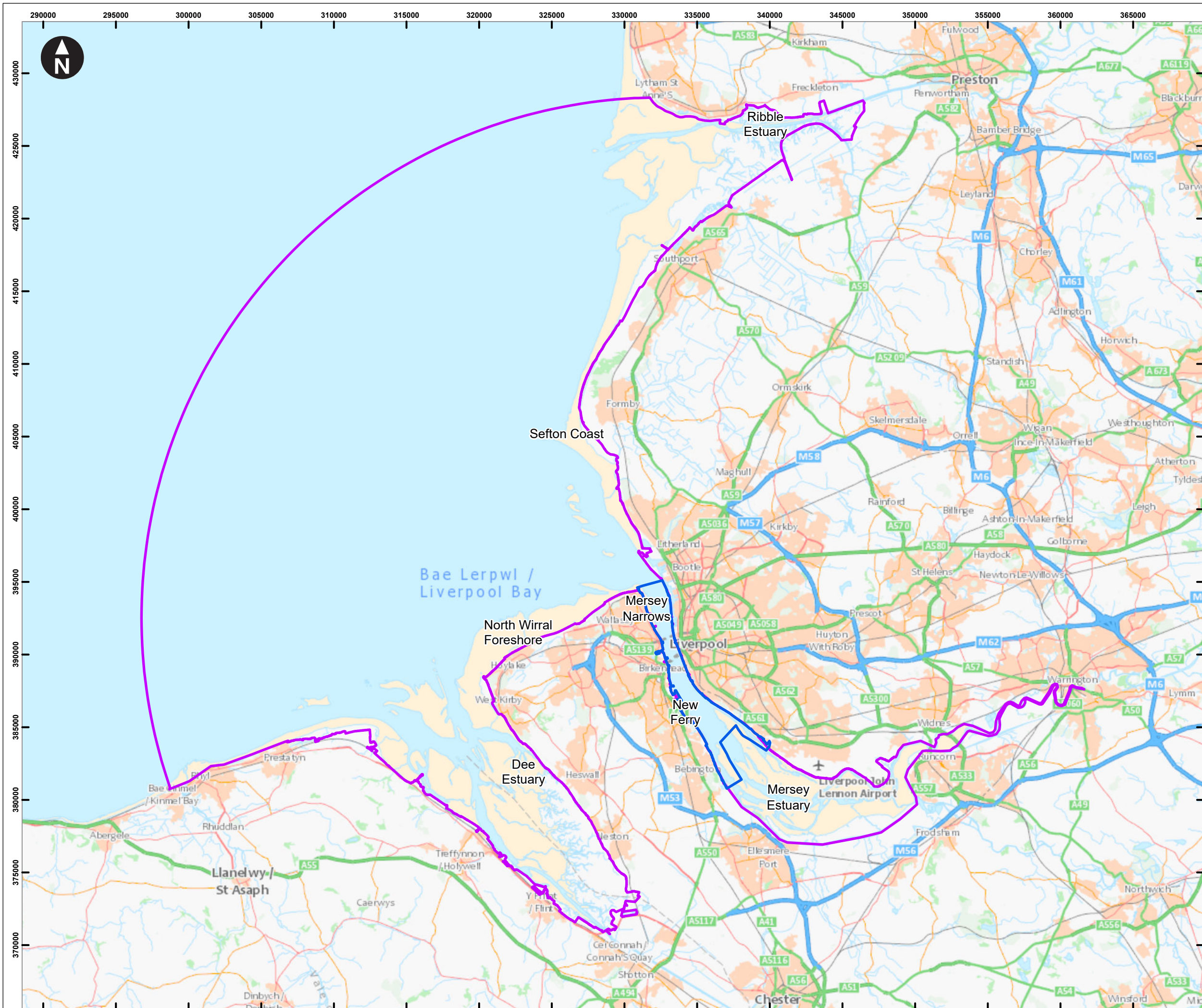


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Mersey Tidal Power Scoping Report  
 Chapter 3: Approach to EIA  
**Figure 3.1 Marine Licence Boundary**

Document Number	23/08/2024
MTP-WSP-00-ZZ-MP-EN-0006-S8-P02- EIA Scoping-Ch3-Figure 3.1 Marine Licence Boundary	





Key

- Tidal Barrage Development Area
- Study Area

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 OS Open Carto: Contains OS data © Crown Copyright and database right 2020

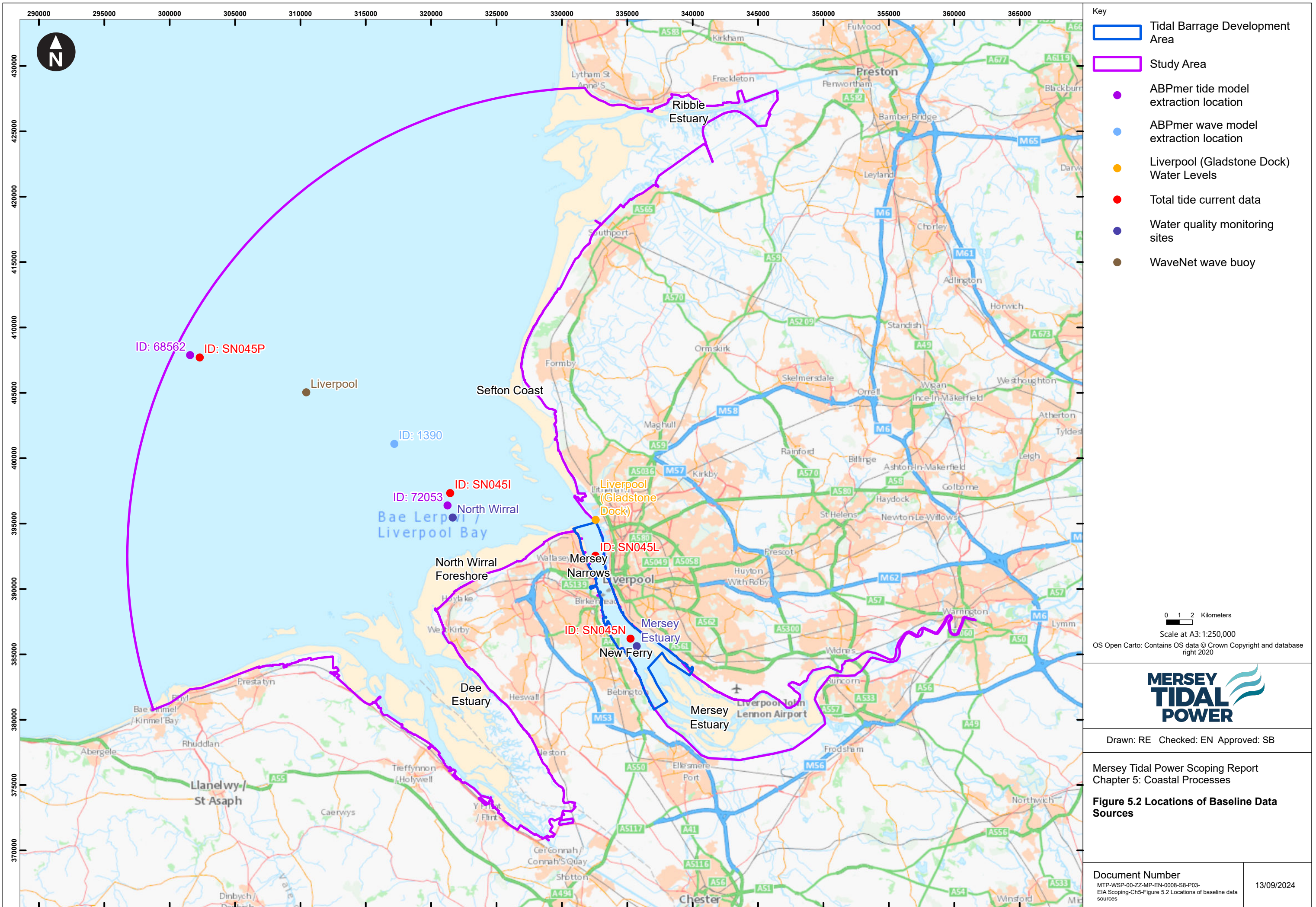


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Mersey Tidal Power Scoping Report  
 Chapter 5: Coastal Processes  
**Figure 5.1 Coastal Processes Study Areas**

Document Number MTP-WSP-00-ZZ-MP-EN-0007-S8-P03- EIA Scoping-Ch5-Figure 5.1 Coastal Processes Study Areas	13/09/2024
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- Key
- Tidal Barrage Development Area
  - Study Area
  - ABPmer tide model extraction location
  - ABPmer wave model extraction location
  - Liverpool (Gladstone Dock) Water Levels
  - Total tide current data
  - Water quality monitoring sites
  - WaveNet wave buoy

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 Scale at A3: 1:250,000  
 OS Open Carto: Contains OS data © Crown Copyright and database right 2020

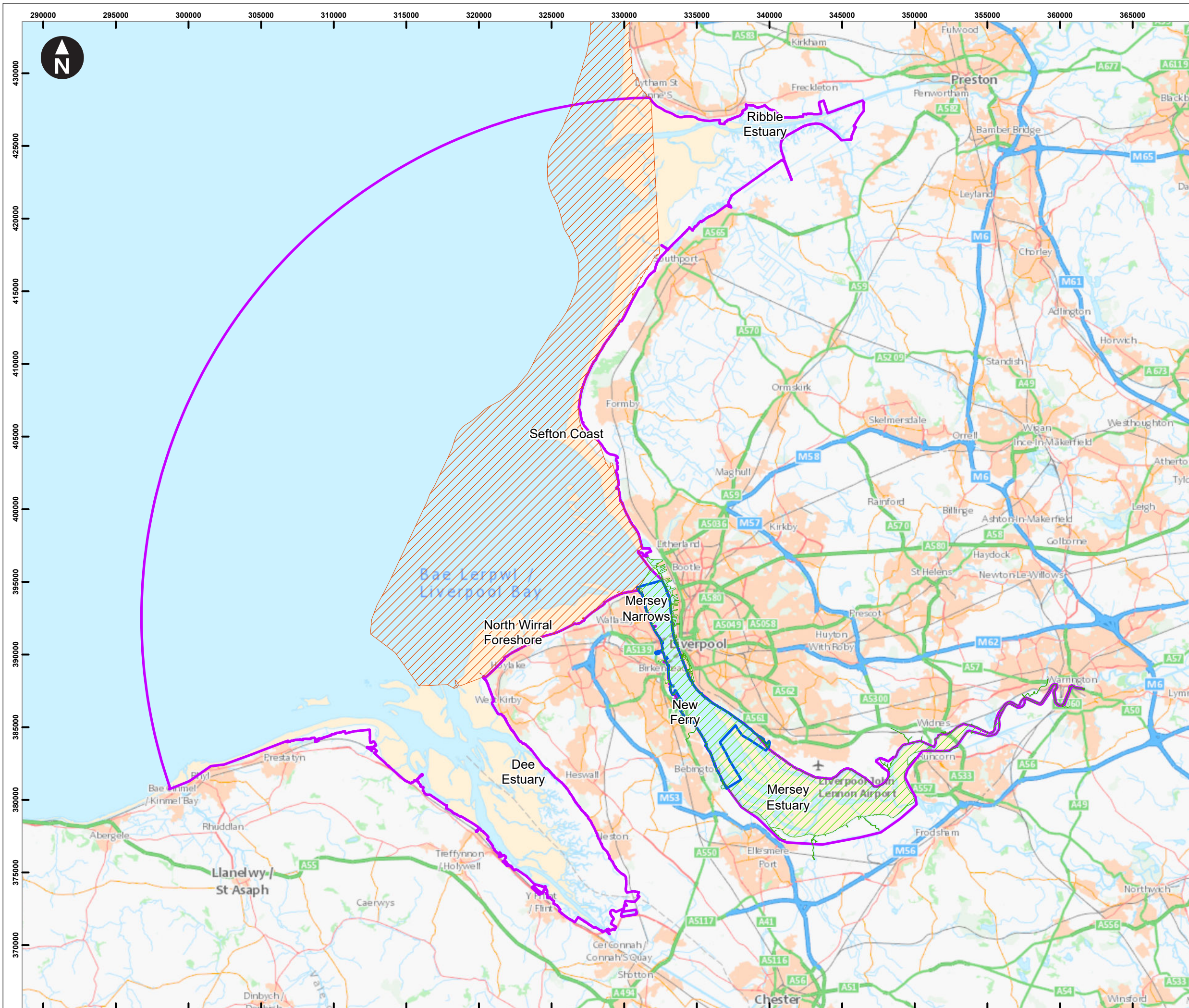


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Mersey Tidal Power Scoping Report  
 Chapter 5: Coastal Processes

**Figure 5.2 Locations of Baseline Data Sources**





Key

- Tidal Barrage Development Area
- Study Area
- Mersey Mouth
- Mersey

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 OS Open Carto: Contains OS data © Crown Copyright and database right 2020

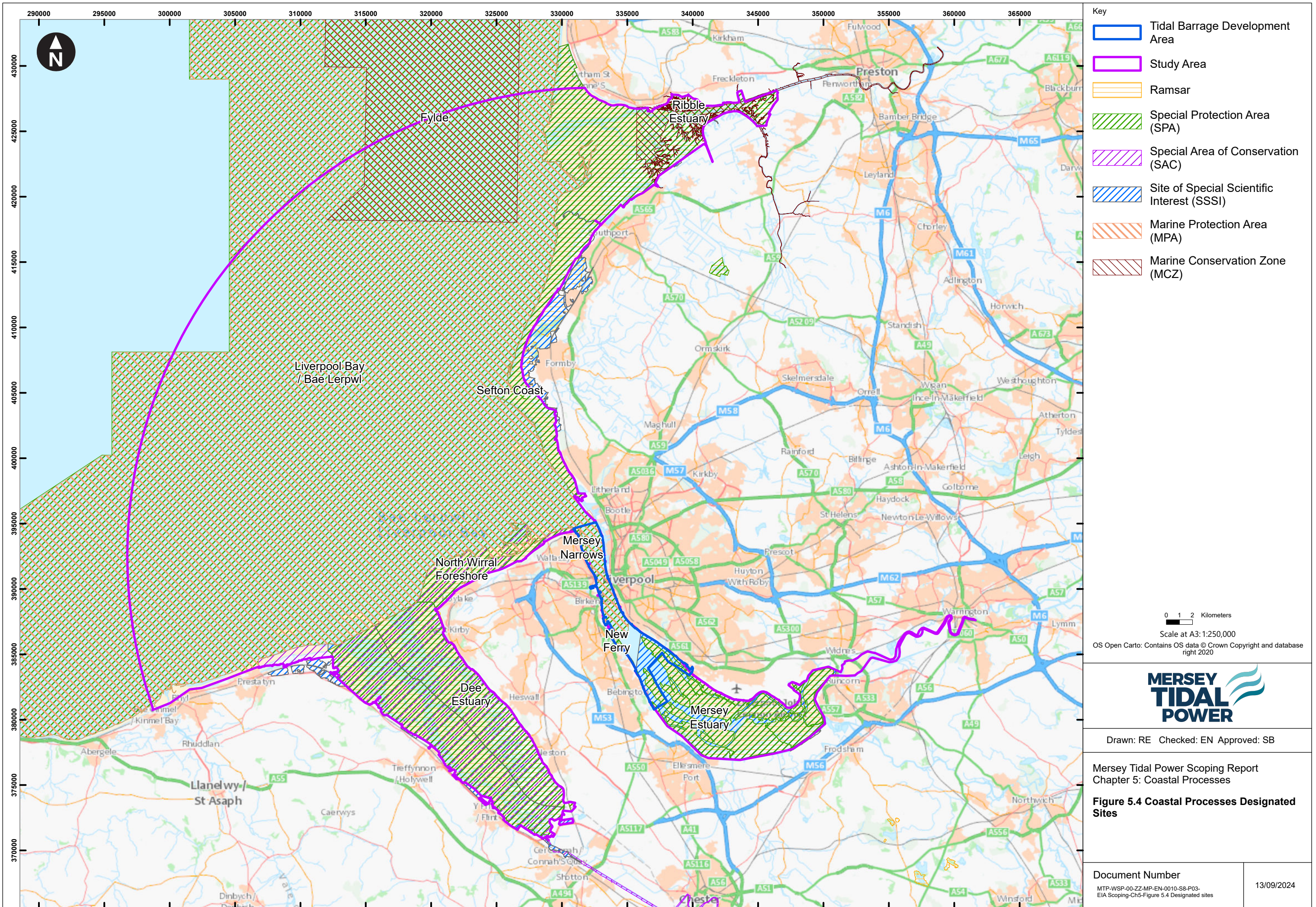


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Mersey Tidal Power Scoping Report  
 Chapter 5: Coastal Processes  
**Figure 5.3 Locations of WFD Waterbodies**

Document Number MTP-WSP-00-ZZ-MP-EN-0009-S8-P03- EIA Scoping-Ch5-Figure 5.3 Locations of WFD Waterbodies	13/09/2024
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Key  
 Scoping Boundary  
 Study Area

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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

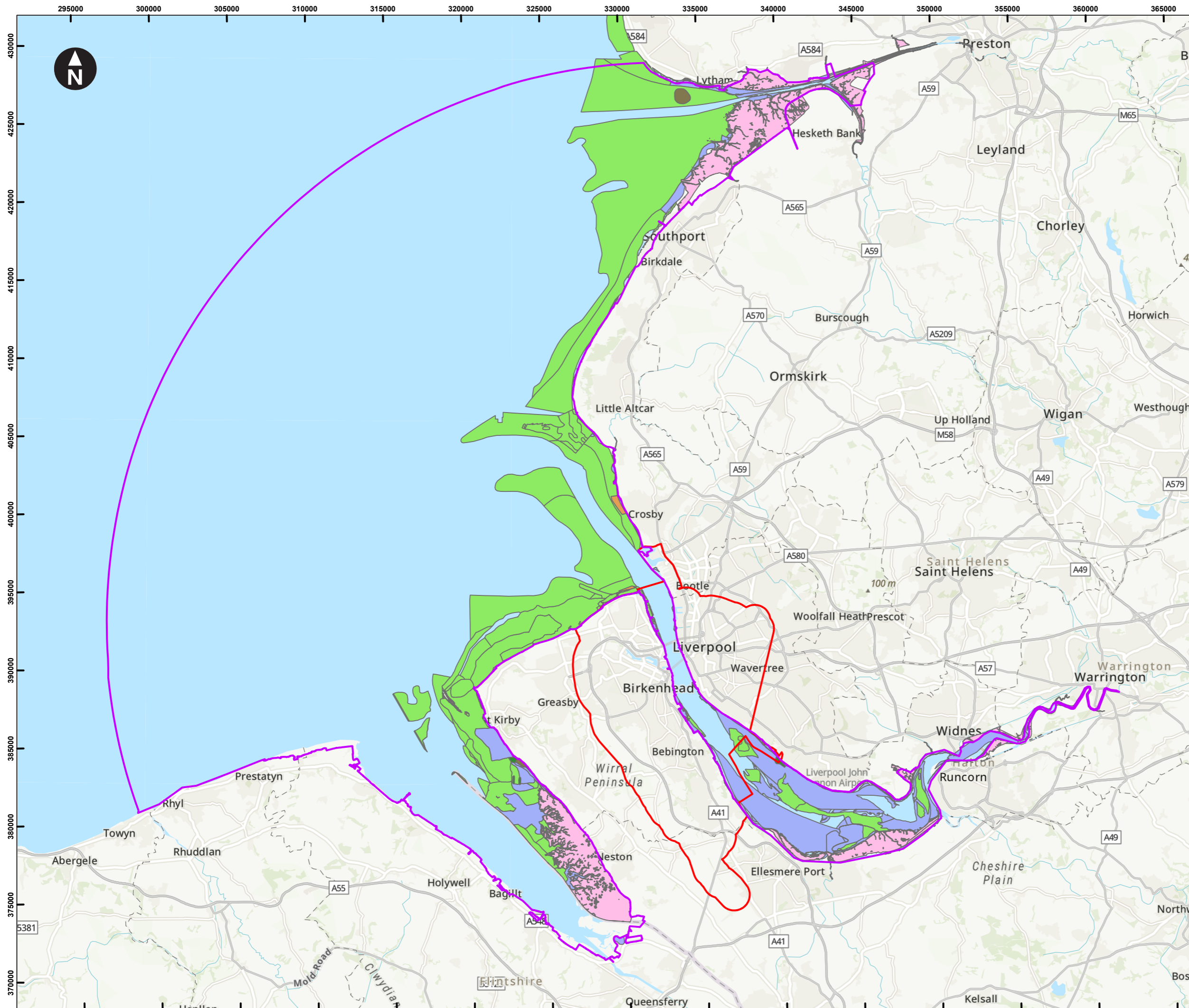


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Mersey Tidal Power Scoping Report Chapter 6: Benthic Ecology and Plankton  
**Figure 6.1 Benthic Ecology and Plankton Study Area**

Document Number MTP-WSP-00-ZZ-MP-EN-0051-S8-P03-EIA Scoping-Ch6-Figure 6.1 Benthic Ecology & Plankton Study Area	13/09/2024
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**Key**

- Scoping Boundary
- Study Area

**Intertidal Habitats and Sediment Types (NE, 2024a; NE 2024b)**

- Intertidal biogenic reef: Sabellaria spp.
- Intertidal biogenic reef: mussel beds
- Intertidal coarse sediment
- Intertidal mixed sediments
- Intertidal mud
- Intertidal rock
- Intertidal sand and muddy sand
- Coastal saltmarsh

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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

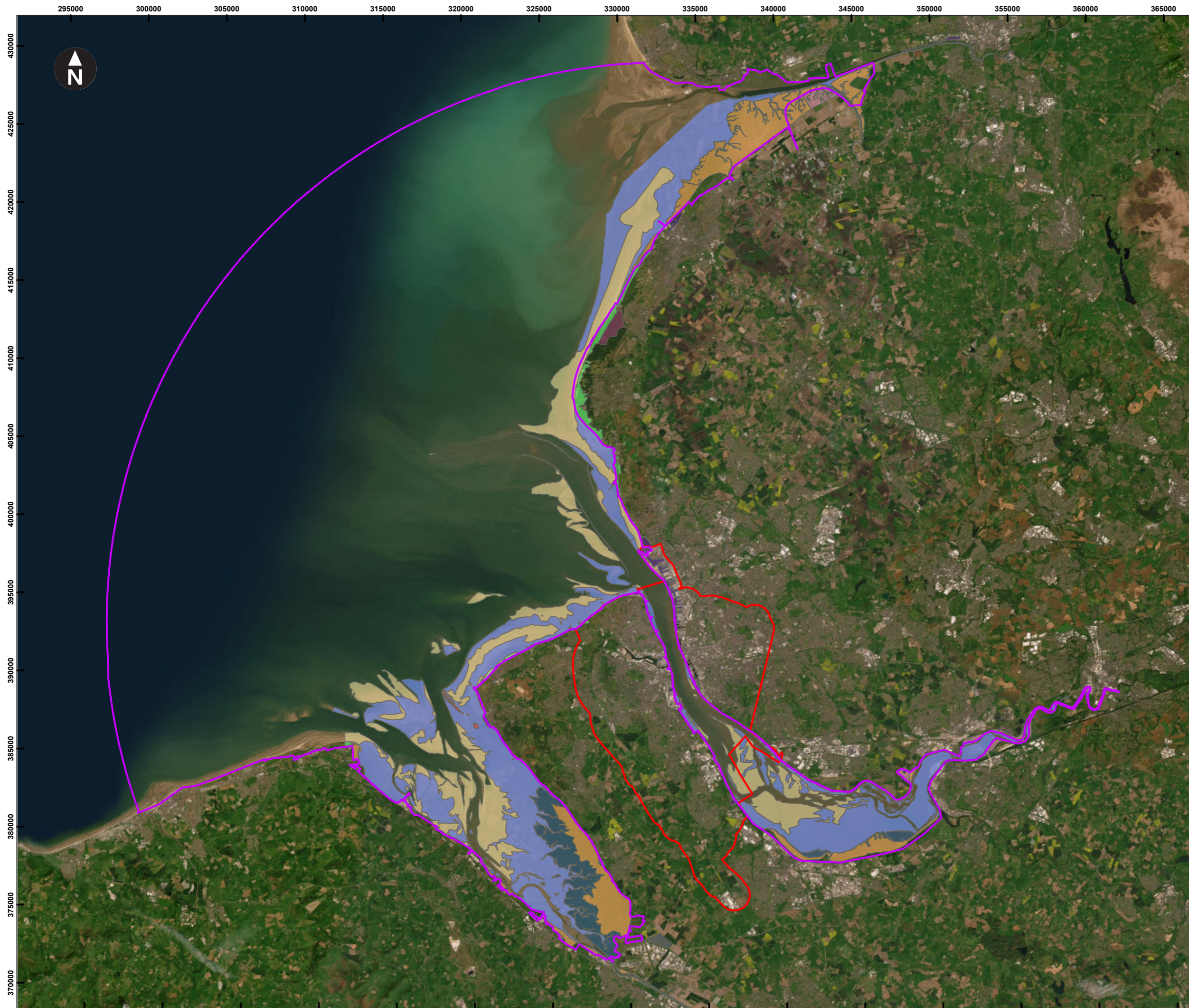


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Mersey Tidal Power Scoping Report Chapter 6: Benthic Ecology and Plankton

**Figure 6.2 Intertidal habitats within the Benthic Ecology and Plankton Study Area**





- Key**
- Scoping Boundary
  - Study Area
- Habitat classification**
- Bedrock
  - Bedrock / boulder scar
  - Boulder dominated intertidal shoreline
  - Embryonic saltmarsh
  - Embryonic sand dune
  - Eroding supralittoral cliffs
  - Established salt marsh
  - Established sand dune
  - Established sand hills (terrestrial habitat)
  - Hard engineering
  - Mud and boulder dominated shoreline
  - Mudflats and sandflats
  - Mudflats and sandflats with patches of embryonic salt marsh and/or grassland
  - Reedbed dominated coastal marsh
  - Semi-enclosed marine influenced lagoon/dock
  - Supralittoral sandy beach
  - Upper salt marsh and coastal sward vegetation
  - Wave / tide dominated mudflats and sandflats

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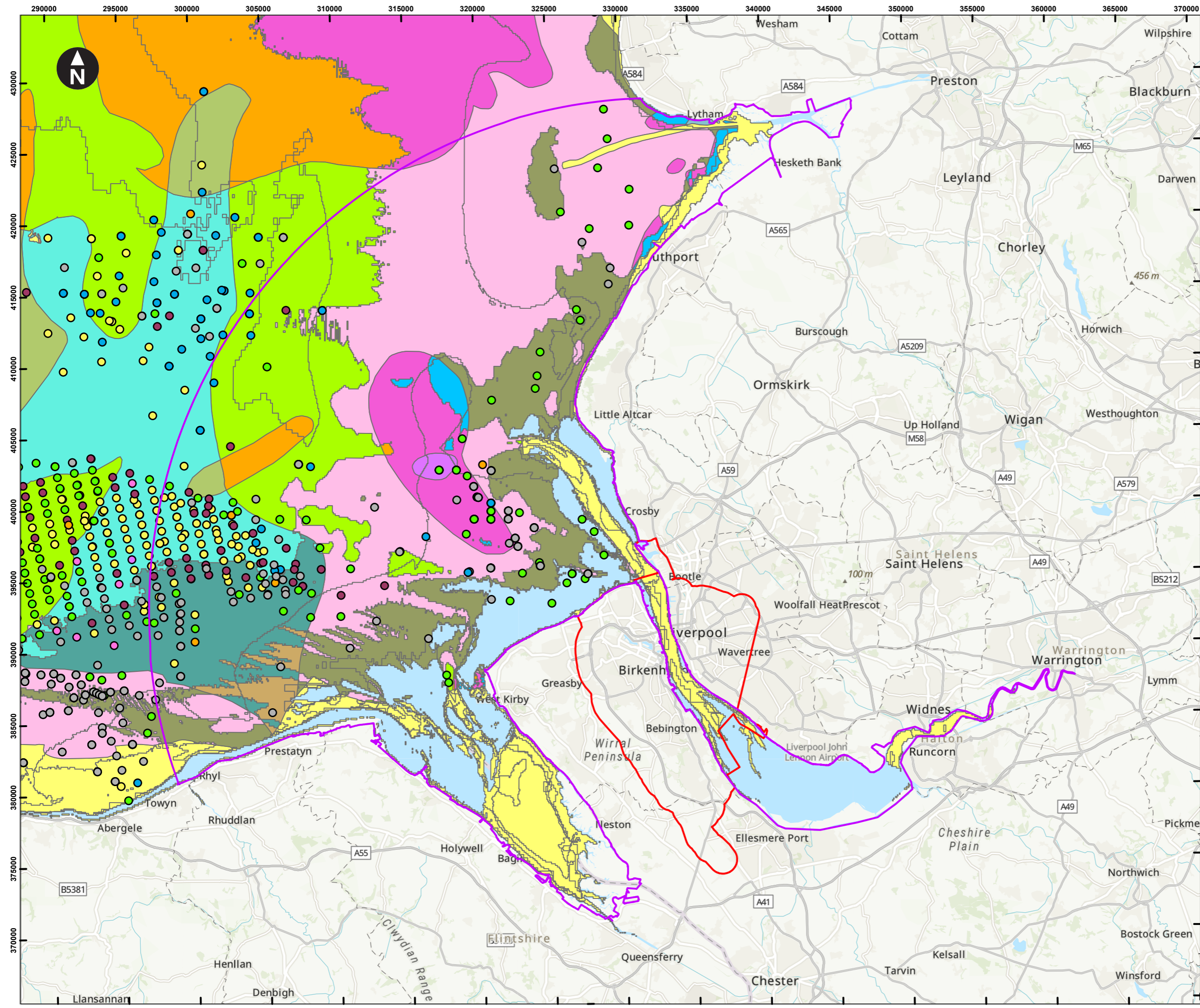


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Mersey Tidal Power Scoping Report Chapter 6: Benthic Ecology and Plankton

**Figure 6.3 Intertidal habitats within the Benthic Ecology and Plankton Study Area (RSK, 2024)**





**Key**

- Scoping Boundary
- Study Area

**Faunal Clusters (CEFAS 2024)**

- A2b
- C1a
- C1b
- D1
- D2a
- D2b
- D2c
- D2d

**EUNIS 2019 Habitat (EUSeaMap 2023)**

- MB12: Atlantic infralittoral rock
- MB2223: Mussel beds on Atlantic infralittoral sediment
- MB32: Atlantic infralittoral coarse sediment
- MB42: Atlantic infralittoral mixed sediment
- MB52: Atlantic infralittoral sand
- MB62: Atlantic infralittoral mud
- MC12: Atlantic circalittoral rock
- MC32: Atlantic circalittoral coarse sediment
- MC42: Atlantic circalittoral mixed sediment
- MC52: Atlantic circalittoral sand
- MC62: Atlantic circalittoral mud
- MD12: Atlantic offshore circalittoral rock
- MD32: Atlantic offshore circalittoral coarse sediment
- MD42: Atlantic offshore circalittoral mixed sediment
- MD52: Atlantic offshore circalittoral sand
- MD62: Atlantic offshore circalittoral mud

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World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

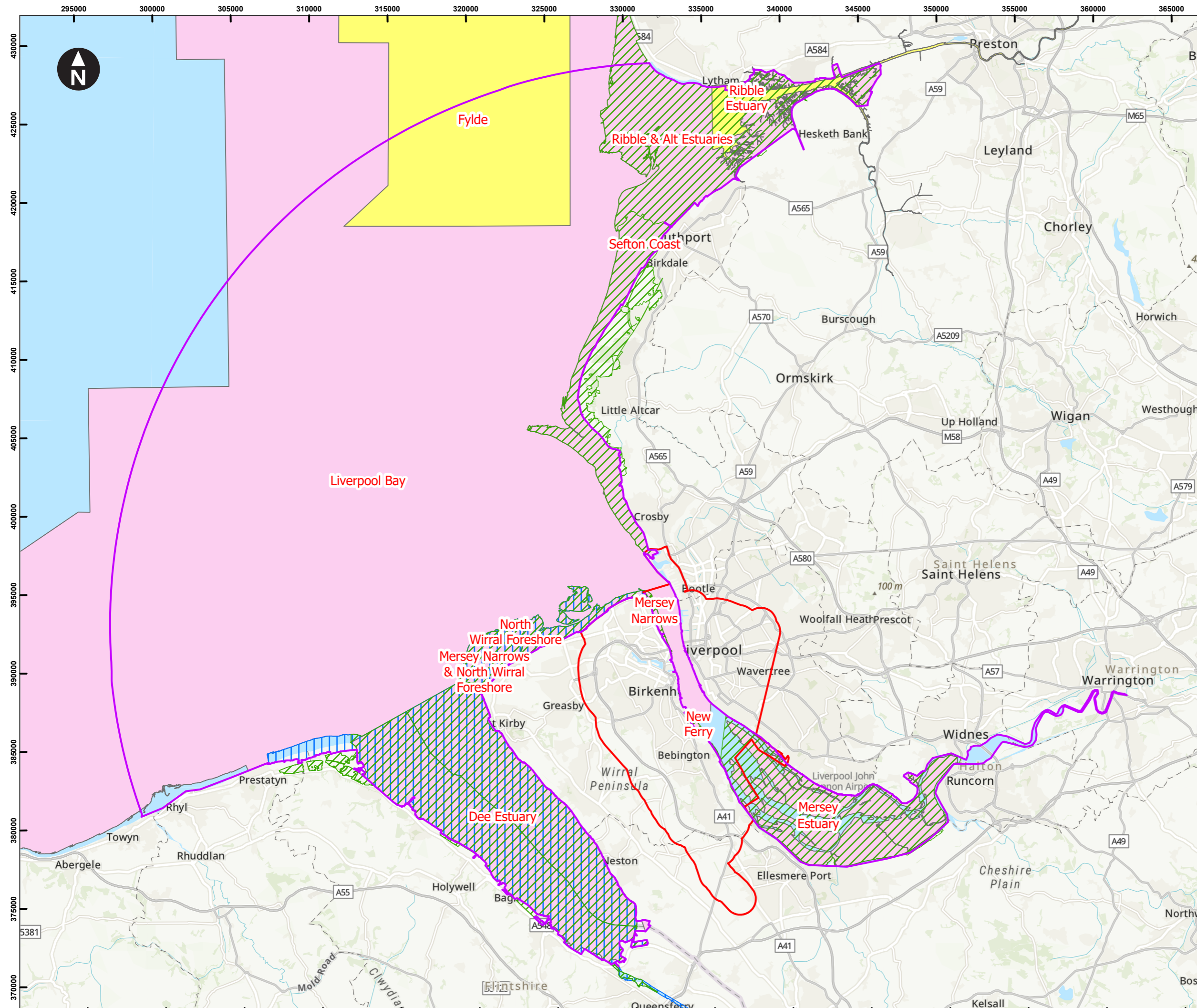


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Mersey Tidal Power Scoping Report Chapter 6: Benthic Ecology and Plankton

**Figure 6.4 EUSeaMap within Benthic Ecology & Plankton Study Area**





- Key
- Scoping Boundary
  - Study Area
  - Special Protection Areas
  - Special Areas of Conservation
  - Sites of Special Scientific Interest
  - Marine Conservation Zones

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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

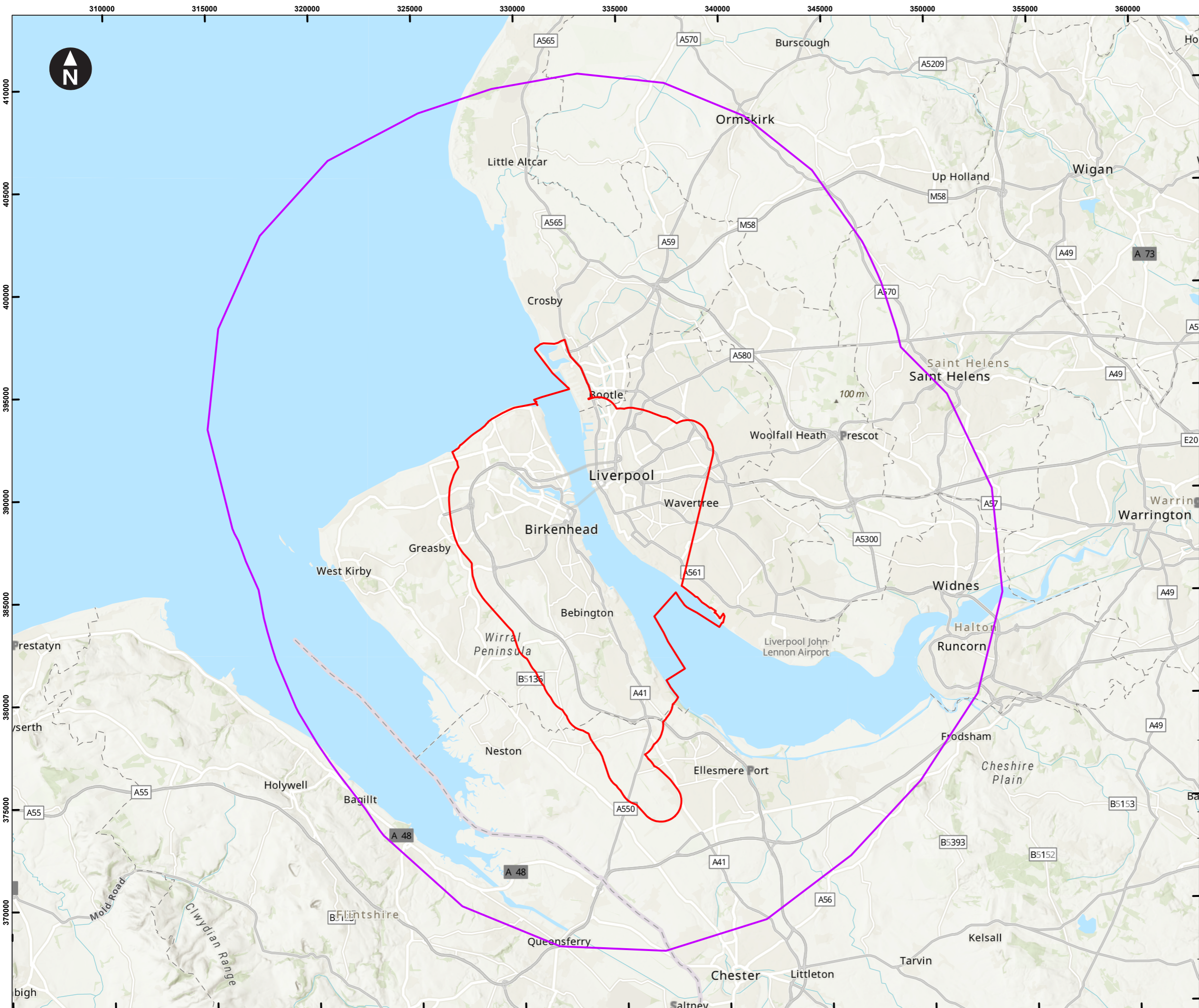


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Mersey Tidal Power Scoping Report Chapter 6: Benthic Ecology and Plankton

**Figure 6.5 Designated sites within the Study Area**





Key  
 Scoping Boundary  
 Study Area

0 1 2 Kilometers

Scale at A3: 1:175,000

World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS  
 World Hillshade: Esri, CGIAR, USGS



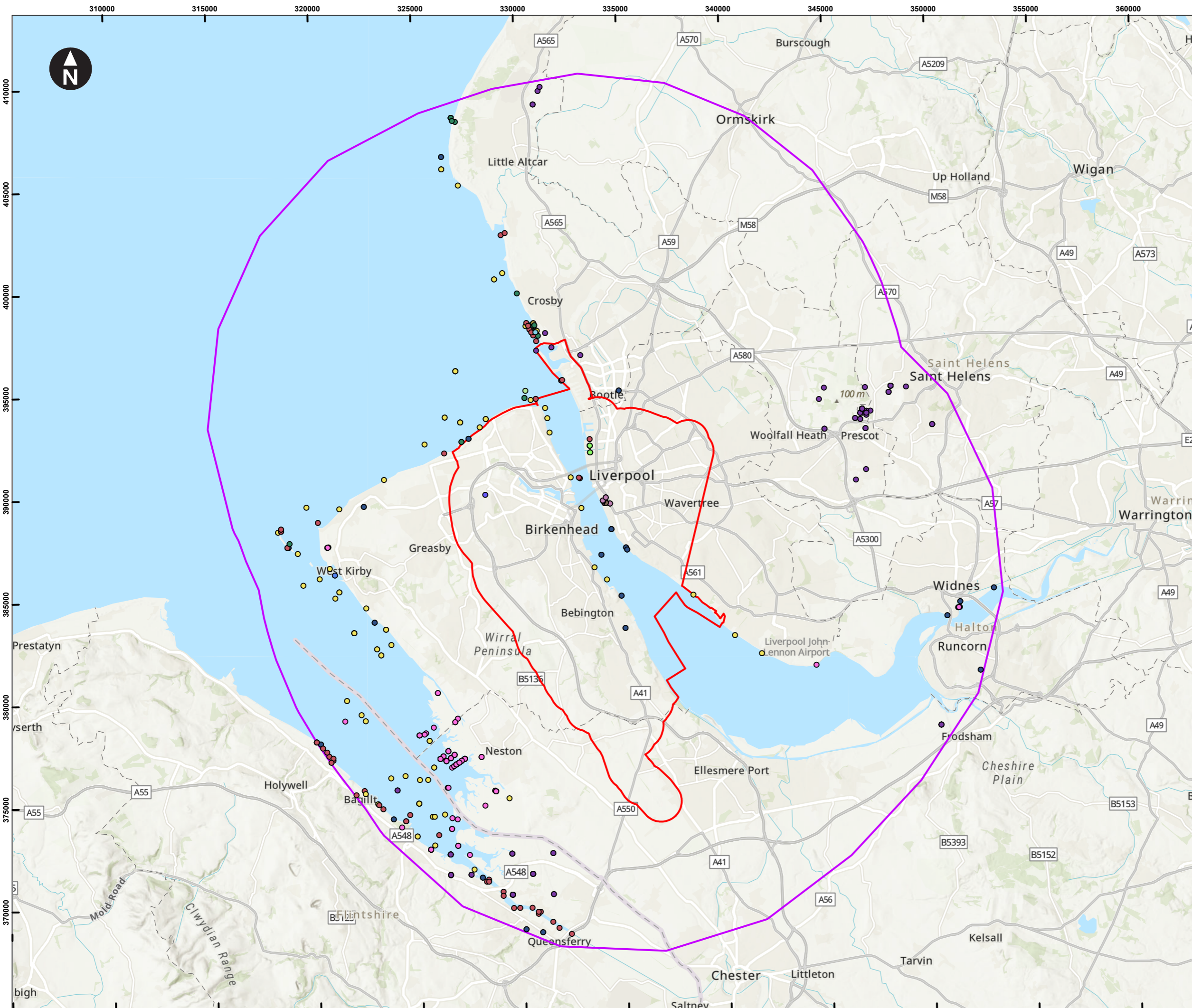
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Mersey Tidal Power Scoping Report Chapter 7: INNS

**Figure 7.1 INNS Study Area**

Document Number MTP-WSP-00-ZZ-MP-EN-0056-S8-P02-EIA Scoping-Ch7-Figure 7.1 INNS Study area	30/08/2024
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- Key**
- Scoping Boundary
  - Study Area
  - Darwin's barnacle (*Austrominius modestus*)
  - Trumpet tube worm (*Ficopomatus enigmaticus*)
  - Diatom (*Pleurosigma*)
  - American piddock (*Petricolaria pholadiformis*)
  - American slipper limpet (*Crepidula fornicata*)
  - Chinese mitten crab (*Eriocheir sinensis*)
  - Common cord-grass (*Spartina anglica*)
  - American jackknife clam (*Ensis leei*)
  - Leathery sea squirt (*Styela clava*)
  - Orange-striped anemone (*Diadumene lineata*)
  - Pacific oyster (*Magallana gigas*)
  - Ruddy duck (*Oxyura jamaicensis*)
  - Soft-shell clam (*Mya arenaria*)
  - Japanese wireweed (*Sargassum muticum*)

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 Scale at A3: 1:175,000  
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 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

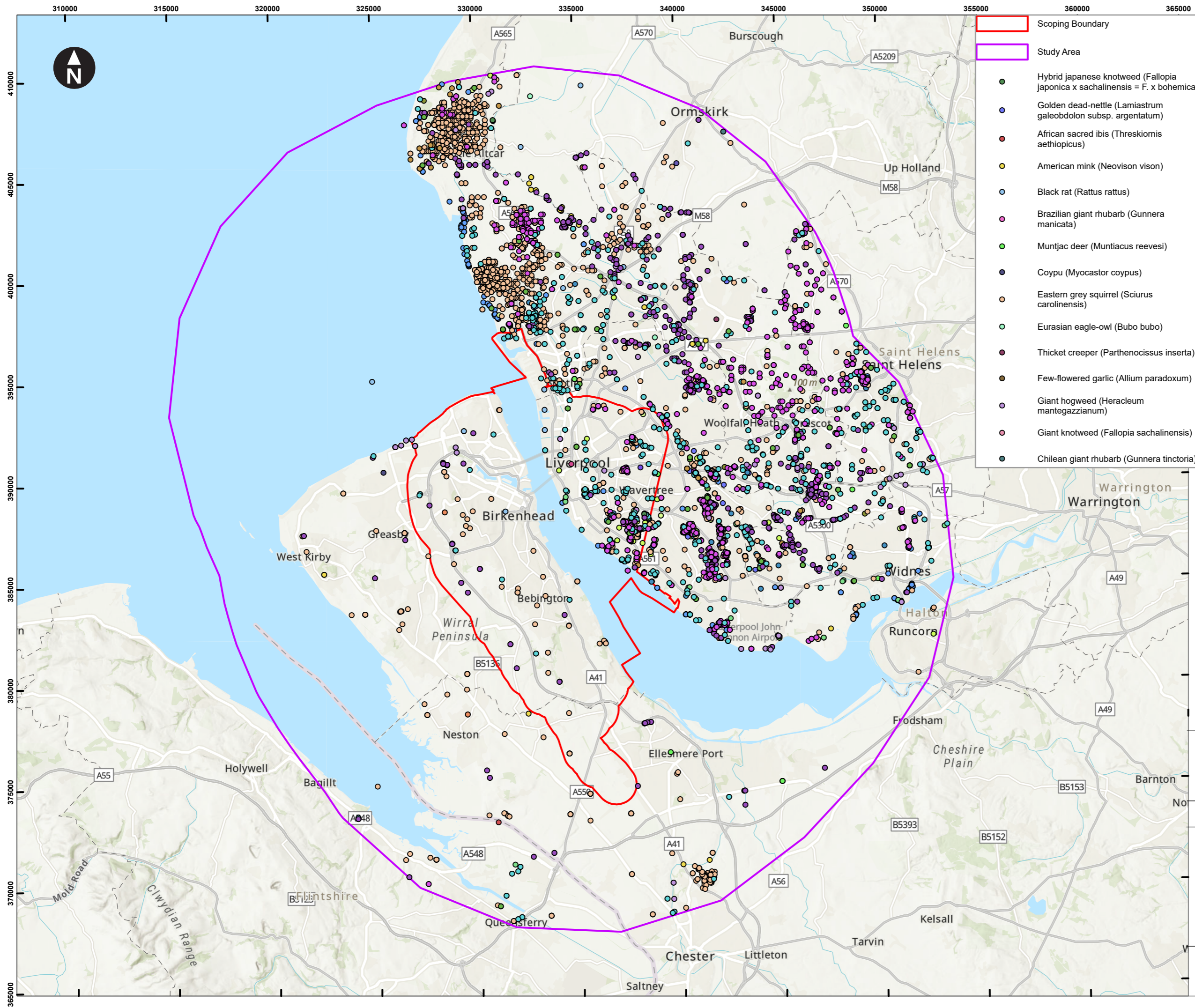


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Mersey Tidal Power Scoping Report Chapter 7: INNS

**Figure 7.2 Marine INNS identified within the INNS Study Area**





Key	
[Red outline]	Scoping Boundary
[Purple outline]	Study Area
[Green dot]	Hybrid japanese knotweed ( <i>Fallopia japonica</i> x <i>sachalinensis</i> = <i>F. x bohemica</i> )
[Blue dot]	Golden dead-nettle ( <i>Lamium galeobdolon</i> subsp. <i>argentatum</i> )
[Red dot]	African sacred ibis ( <i>Threskiornis aethiopicus</i> )
[Yellow dot]	American mink ( <i>Neovison vison</i> )
[Light blue dot]	Black rat ( <i>Rattus rattus</i> )
[Purple dot]	Brazilian giant rhubarb ( <i>Gunnera manicata</i> )
[Green dot]	Muntjac deer ( <i>Muntiacus reevesi</i> )
[Dark blue dot]	Coypu ( <i>Myocastor coypus</i> )
[Light orange dot]	Eastern grey squirrel ( <i>Sciurus carolinensis</i> )
[Light green dot]	Eurasian eagle-owl ( <i>Bubo bubo</i> )
[Dark red dot]	Thicket creeper ( <i>Parthenocissus inserta</i> )
[Dark orange dot]	Few-flowered garlic ( <i>Allium paradoxum</i> )
[Light purple dot]	Giant hogweed ( <i>Heracleum mantegazzianum</i> )
[Pink dot]	Giant knotweed ( <i>Fallopia sachalinensis</i> )
[Dark blue dot]	Chilean giant rhubarb ( <i>Gunnera tinctoria</i> )
[Light green dot]	Himalayan balsam ( <i>Impatiens glandulifera</i> )
[Light orange dot]	Himalayan cotoneaster ( <i>Cotoneaster simonsii</i> )
[Dark green dot]	Hollyberry cotoneaster ( <i>Cotoneaster bullatus</i> )
[Light blue dot]	Japanese knotweed ( <i>Fallopia japonica</i> )
[Blue dot]	Japanese rose ( <i>Rosa rugosa</i> )
[Light green dot]	Montbretia ( <i>Crocsmia pottsii</i> x <i>aurea</i> = <i>C. x crocosmiiflora</i> )
[Light orange dot]	New Zealand flatworm ( <i>Arthurdendyus triangulatus</i> )
[Dark orange dot]	Orange balsam ( <i>Impatiens capensis</i> )
[Yellow dot]	Pink Purslane ( <i>Claytonia sibirica</i> )
[Purple dot]	Rhododendron ( <i>Rhododendron ponticum</i> )
[Light green dot]	Rose-ringed parakeet ( <i>Psittacula kramera</i> )
[Light blue dot]	Sweet flag ( <i>Acorus calamus</i> )
[Dark blue dot]	Three-cornered garlic ( <i>Allium triquetrum</i> )
[Pink dot]	Tree-of-heaven ( <i>Ailanthus altissima</i> )
[Dark blue dot]	Virginia creeper ( <i>Parthenocissus quinquefolia</i> )
[Light green dot]	Wall cotoneaster ( <i>Cotoneaster horizontalis</i> )
[Light orange dot]	Yellow azalea ( <i>Rhododendron luteum</i> )

0 1 2 Kilometers  
 Scale at A3: 1:175,000  
 World Hillshade: Esri, Intermap, NASA, NGA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

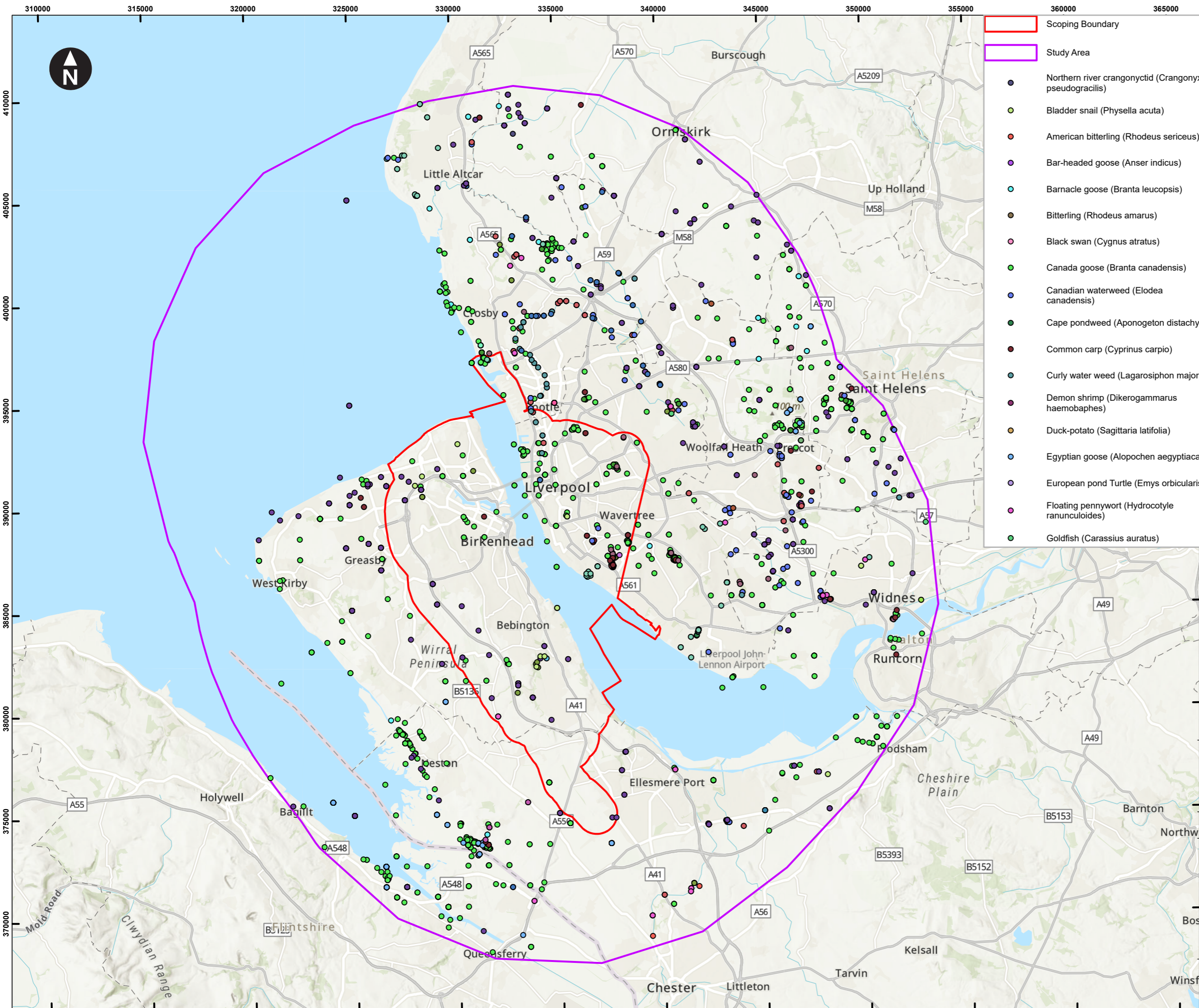


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Mersey Tidal Power Scoping Report Chapter 7: INNS

**Figure 7.3 Terrestrial INNS identified within the INNS Study Area**





Key	
	Scoping Boundary
	Study Area
	Northern river crangonyctid ( <i>Crangonyx pseudogracilis</i> )
	Bladder snail ( <i>Physella acuta</i> )
	American bitterling ( <i>Rhodeus sericeus</i> )
	Bar-headed goose ( <i>Anser indicus</i> )
	Barnacle goose ( <i>Branta leucopsis</i> )
	Bitterling ( <i>Rhodeus amarus</i> )
	Black swan ( <i>Cygnus atratus</i> )
	Canada goose ( <i>Branta canadensis</i> )
	Canadian waterweed ( <i>Elodea canadensis</i> )
	Cape pondweed ( <i>Aponogeton distachyos</i> )
	Common carp ( <i>Cyprinus carpio</i> )
	Curly water weed ( <i>Lagarosiphon major</i> )
	Demon shrimp ( <i>Dikerogammarus haemobaphes</i> )
	Duck-potato ( <i>Sagittaria latifolia</i> )
	Egyptian goose ( <i>Alopochen aegyptiaca</i> )
	European pond Turtle ( <i>Emys orbicularis</i> )
	Floating pennywort ( <i>Hydrocotyle ranunculoides</i> )
	Goldfish ( <i>Carassius auratus</i> )
	Grass carp ( <i>Ctenopharyngodon idella</i> )
	New Zealand mudsnail ( <i>Potamopyrgus antipodarum</i> )
	Least duckweed ( <i>Lemna minuta</i> )
	Mandarin duck ( <i>Aix galericulata</i> )
	Musk rat ( <i>Ondatra zibethicus</i> )
	New Zealand pygmyweed ( <i>Crassula helmsii</i> )
	Nuttall's waterweed ( <i>Elodea nuttallii</i> )
	Oblong orb mussel ( <i>Sphaerium transversum</i> )
	Ide / Orfe ( <i>Leuciscus idus</i> )
	Parrot's-feather ( <i>Myriophyllum aquaticum</i> )
	Red-crested pochard ( <i>Netta rufina</i> )
	Red-eared terrapin ( <i>Trachemys scripta</i> )
	Red-eared terrapin ( <i>Trachemys scripta</i> subsp. <i>elegans</i> )
	Ruddy shelduck ( <i>Tadorna ferruginea</i> )
	American signal crayfish ( <i>Pacifastacus leniusculus</i> )
	Snow goose ( <i>Anser caerulescens</i> )
	Water fern ( <i>Azolla filiculoides</i> )
	Wautier's limpet ( <i>Ferrissia (Petancyclus) californica</i> )
	Wood duck ( <i>Aix sponsa</i> )
	Zebra mussel ( <i>Dreissena polymorpha</i> )

0 1 2 Kilometers  
 Scale at A3: 1:175,000  
 World Hillshade: Esri, Ordnance Survey, NASA, NGA, USGS  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS

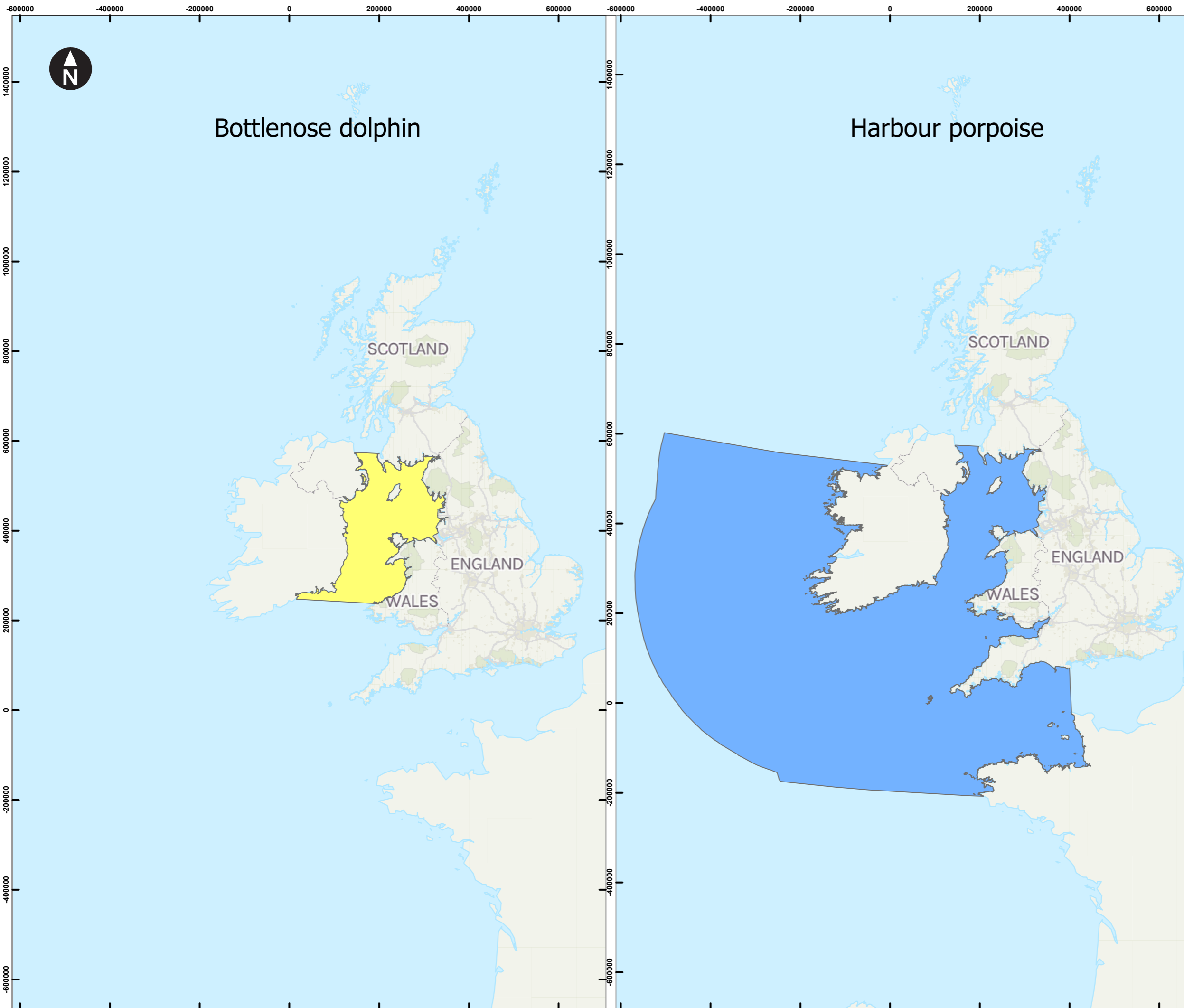


Drawn: RM Checked: PS Approved: NT

Mersey Tidal Power Scoping Report Chapter 7: INNS

**Figure 7.4 Freshwater INNS identified within the INNS Study Area**





- Key
- Harbour porpoise: Celtic and Irish Sea (CIS) MU
  - Bottlenose dolphin: Irish Sea (IS) MU

0 50 100 Kilometers

Scale at A3: 1:8,000,000

GB Topographic: Contains OS data © Crown Copyright and database right 2023  
Contains data from OS Zoomstack



Drawn: RM Checked: RC Approved: NT

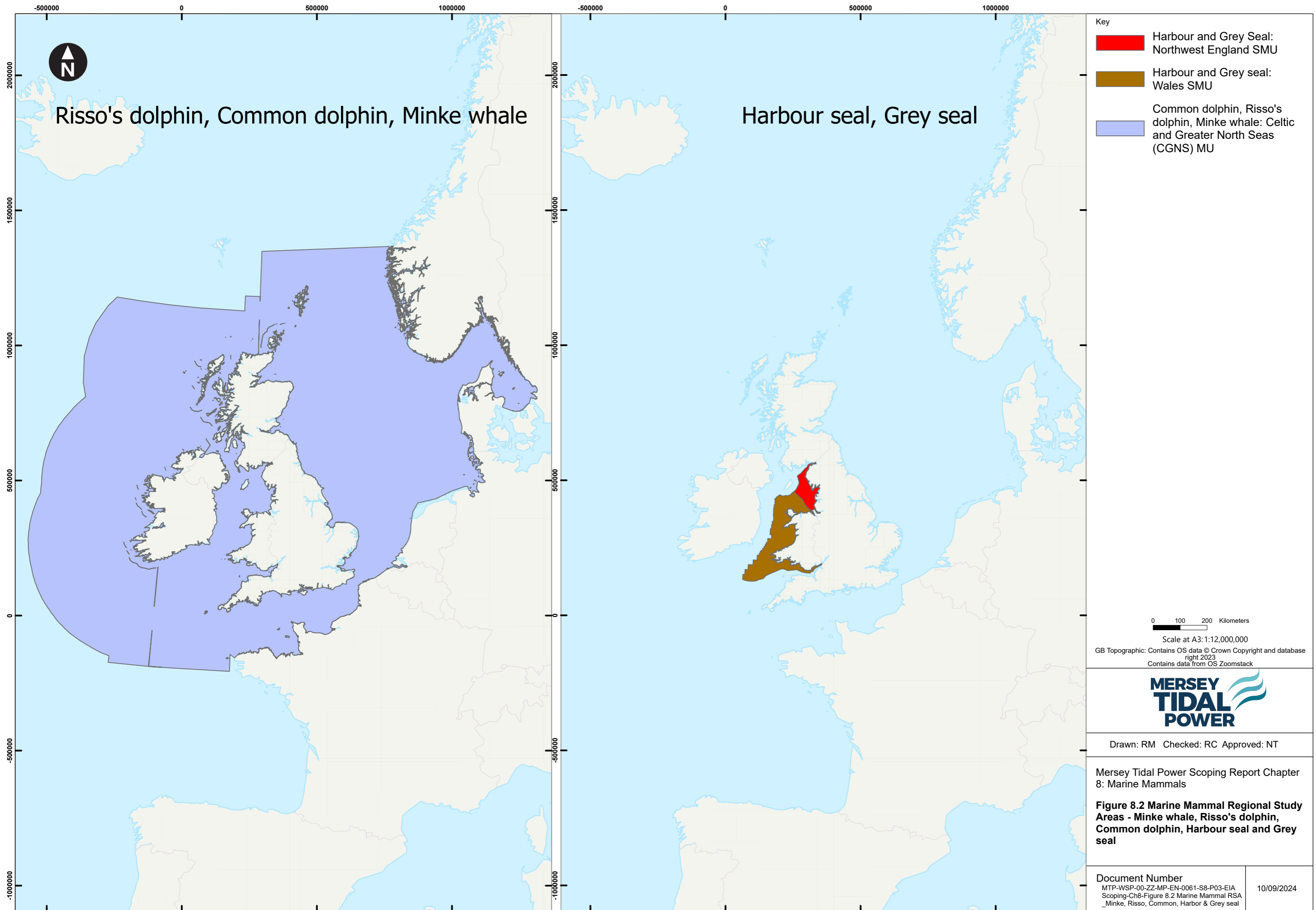
Mersey Tidal Power Scoping Report Chapter 8: Marine Mammals

**Figure 8.1 Marine Mammal Regional Study Areas - Bottlenose dolphin and Harbour porpoise**

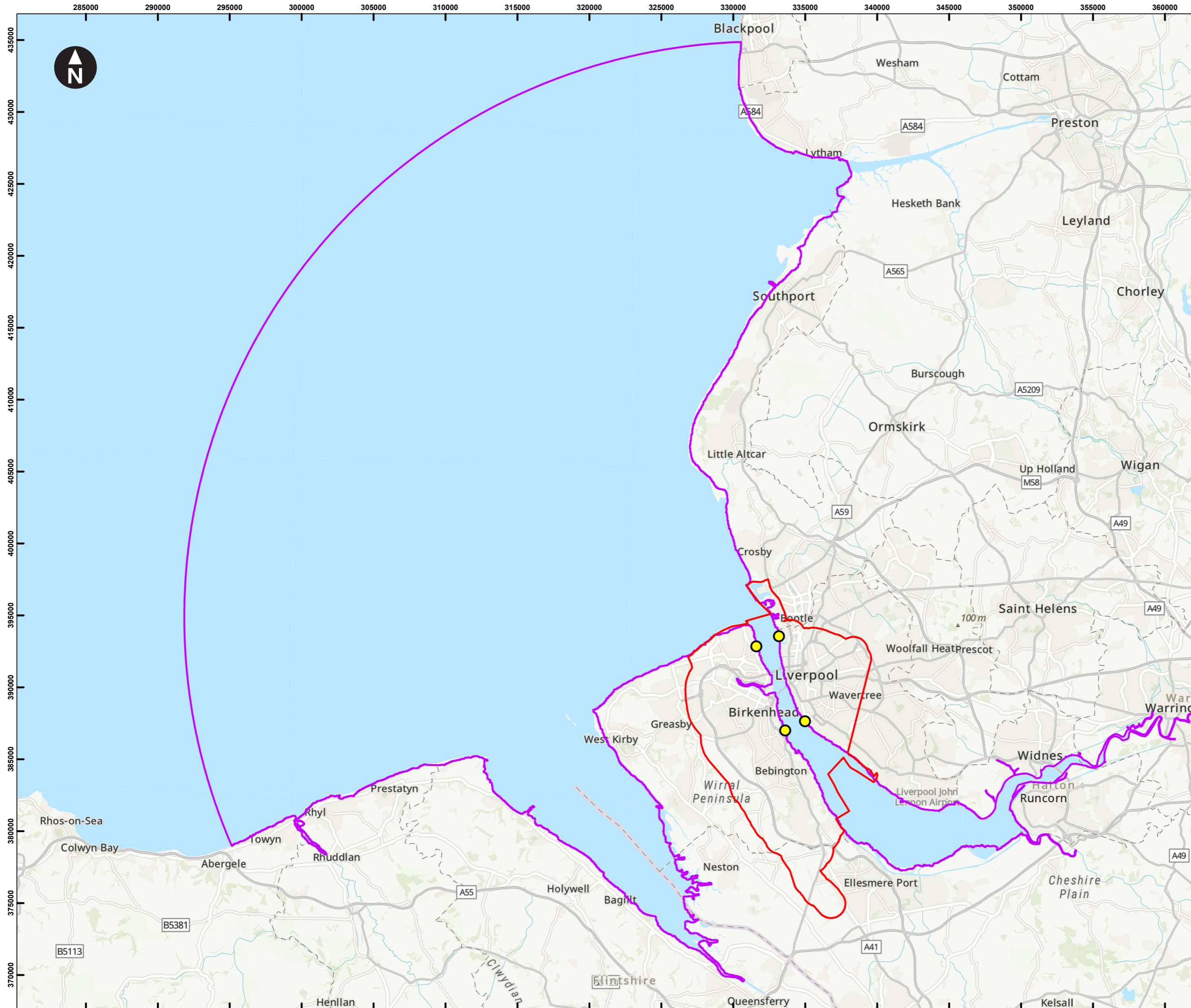
Document Number  
MTP-WSP-00-ZZ-MP-EN-0060-S8-P03-EIA  
Scoping-Ch8-Figure 8.1 Marine Mammal RSA  
\_Bottlenose Dolphin & Harbour Porpoise

10/09/2024









- Key
- Scoping Boundary
  - Study Area
  - Shoreline Observations

0 1 2 Kilometers  
 Scale at A3: 1:250,000  
 World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS



Drawn: RM Checked: RC Approved: NT

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**Figure 8.3 Marine Mammal Study Area**

Document Number MTP-WSP-00-ZZ-MP-EN-0062-S8-P02-EIA Scoping-Ch8-Figure 8.3 Marine Mammal Study area	06/09/2024
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ITS TIME  FOR TIDAL