



Teesside Flexible Regas Port Limited

TEESSIDE FLEXIBLE REGAS PORT

Environmental Impact Assessment Scoping
Report

Volume III Figures



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MARCH 2024

PUBLIC

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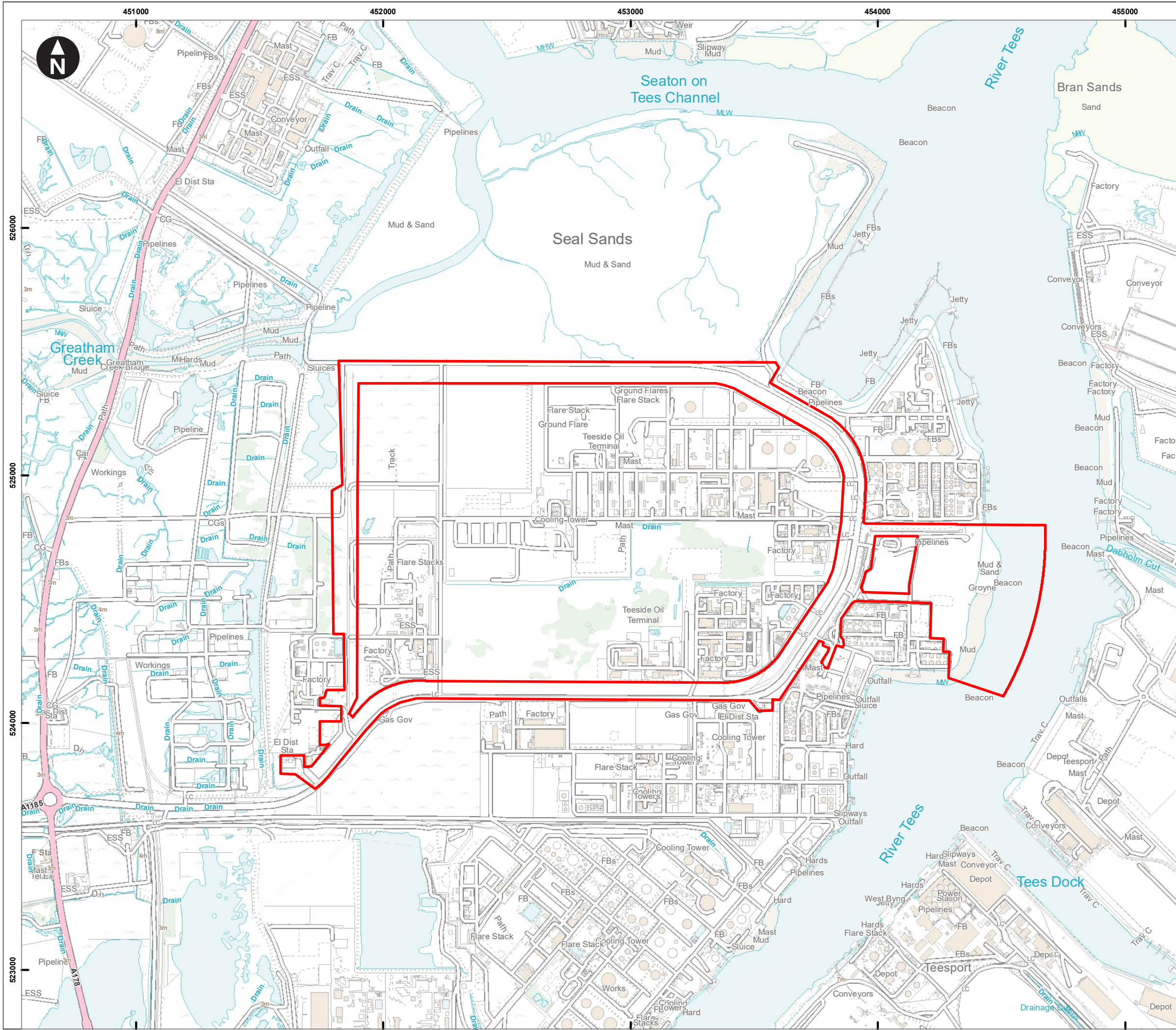
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CHAPTER 1 INTRODUCTION

FIGURE 1.1 SCOPING SITE BOUNDARY



Key
 Proposed site boundary

0 250 500 750 m
 Scale at A3: 1:15,000

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 Teesside Flexible Regas Port
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Figure 1.1
 Scoping site boundary

February 2024





CHAPTER 2 SITE AND PROPOSED SCHEME DESCRIPTION

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FIGURE 2.1b ENVIRONMENTAL CONTEXT: STATUTORY DESIGNATED SITES WITHIN 2KM

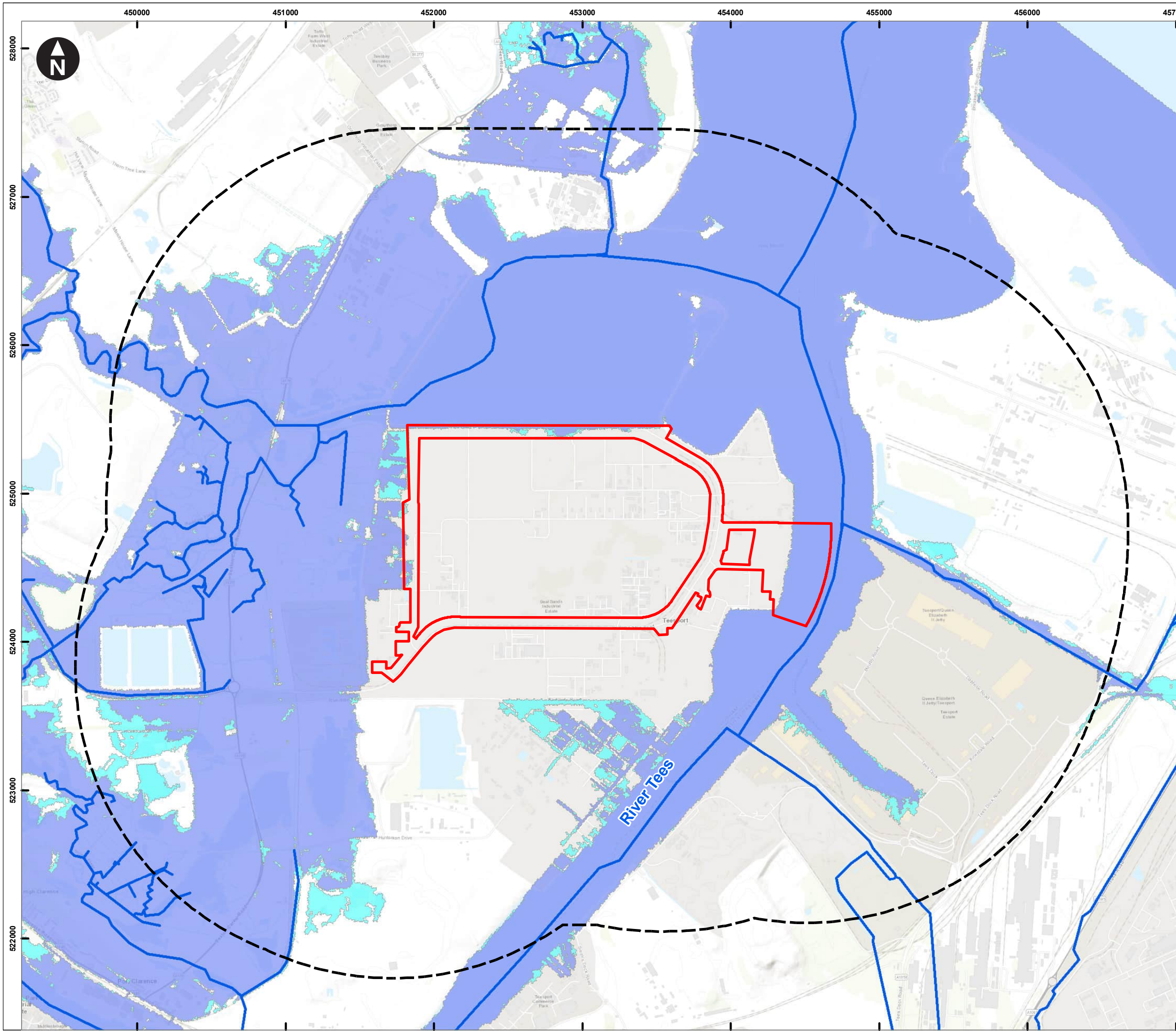
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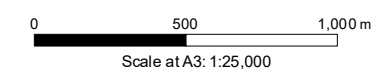
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FIGURE 2.3 LOCATIONS OF EXISTING CAPITAL AND MAINTENANCE DISPOSAL SITES



- Key
- Site boundary
 - 2km search area
 - Main river
 - Environment Agency Flood Zone 3 (> 1% AEP of fluvial flooding)
 - Environment Agency Flood Zone 2 (between 0.1% and 1% AEP of fluvial flooding)
 - Environment Agency Flood Zone 1 (< 0.1% AEP of fluvial flooding)



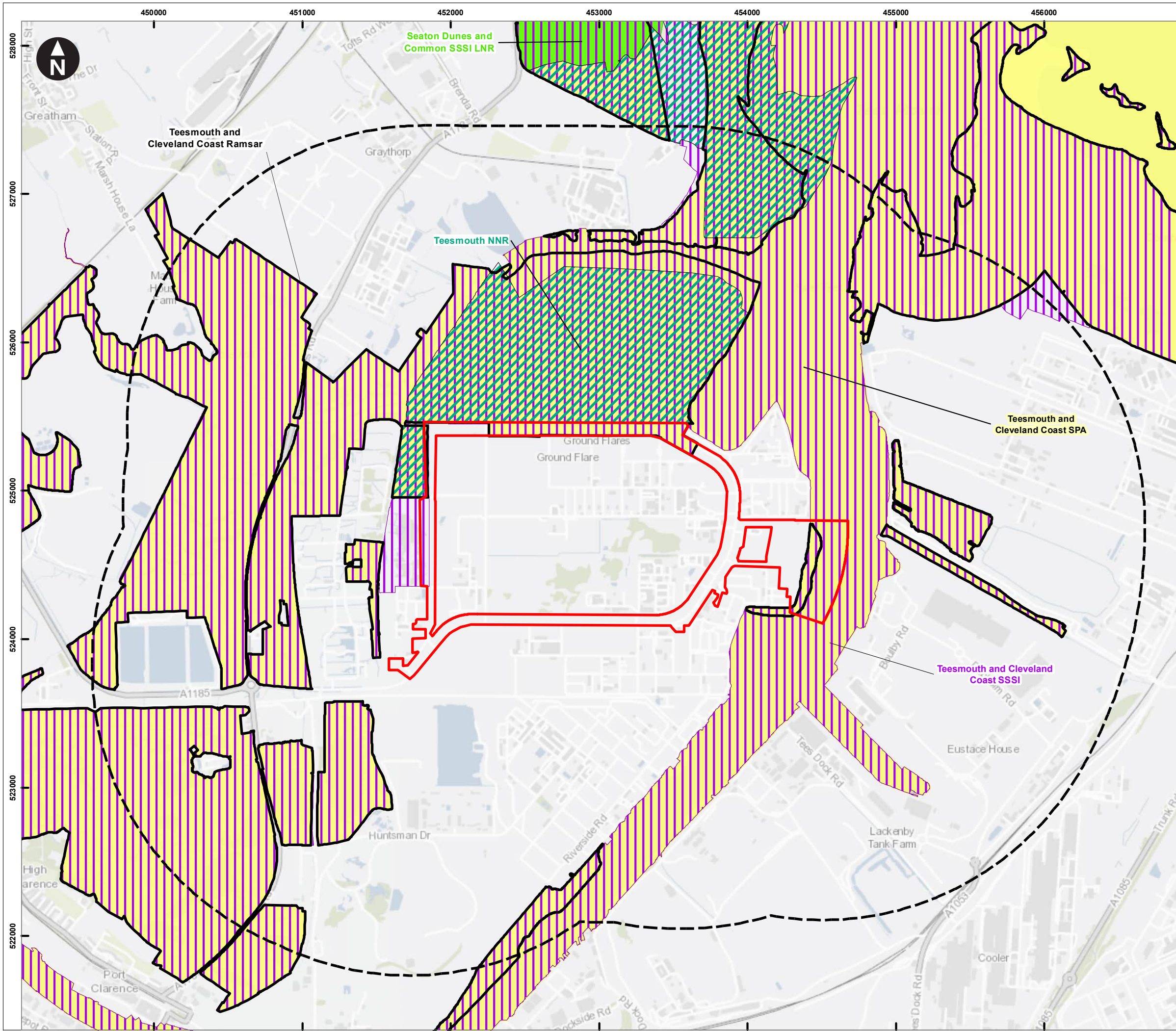
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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Figure 2.1a
Environmental Context:
Flood zones and main rivers

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Key

- Proposed site boundary
- 2km search area
- Ramsar site
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)

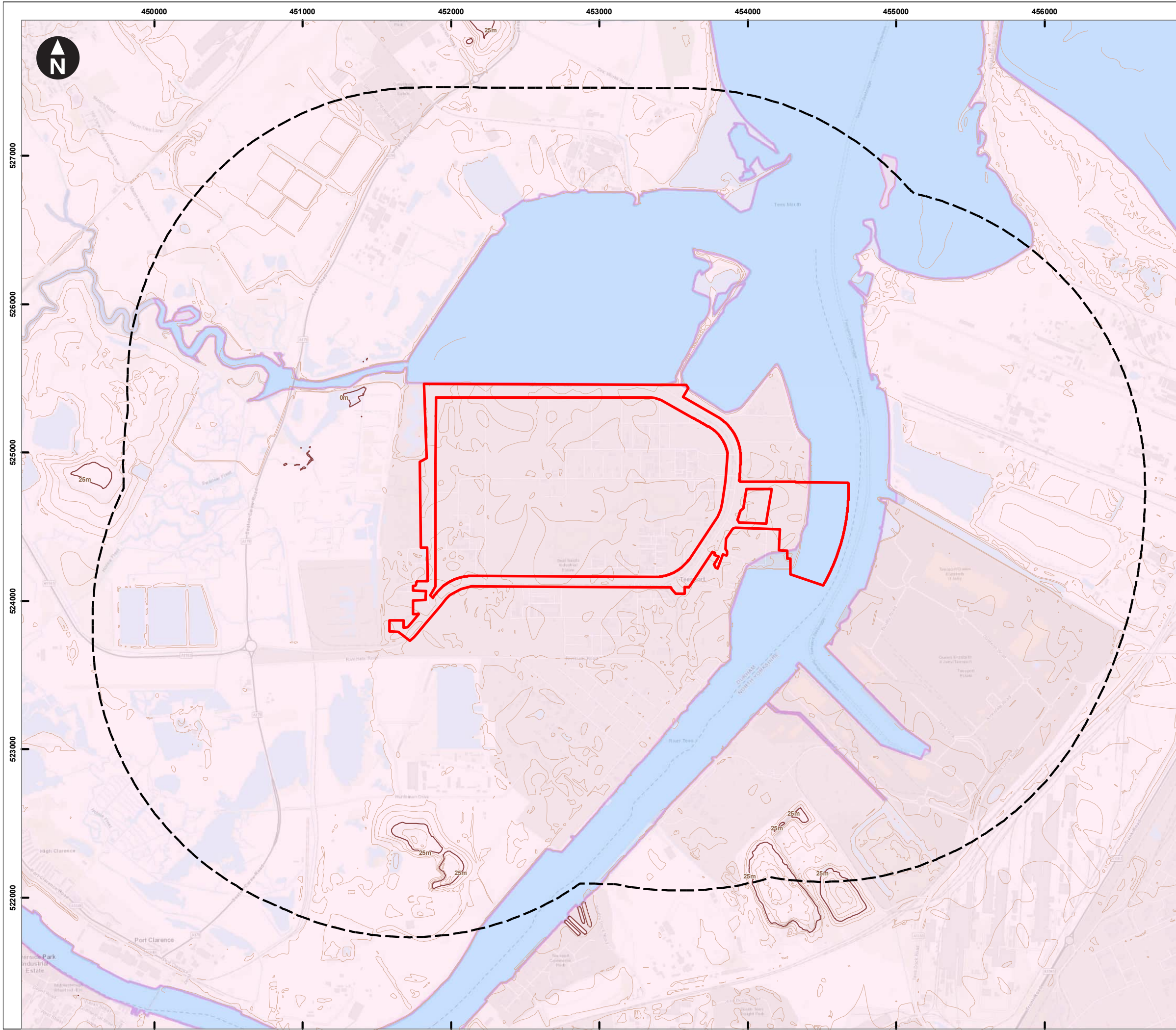
0 250 500 750 1,000 1,250 m
 Scale at A3: 1:25,000
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Figure 2.1b
 Environmental Context: Statutory
 designated sites within 2km

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Key

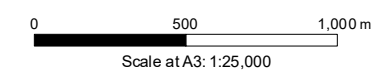
- Proposed site boundary
- 2km search area
- Index Contour Line
- Standard Contour Line

MMO Marine Character Areas

- Tyne, Tees and Wear Estuaries and Coastal Waters

National Character Area

- Tees Lowlands



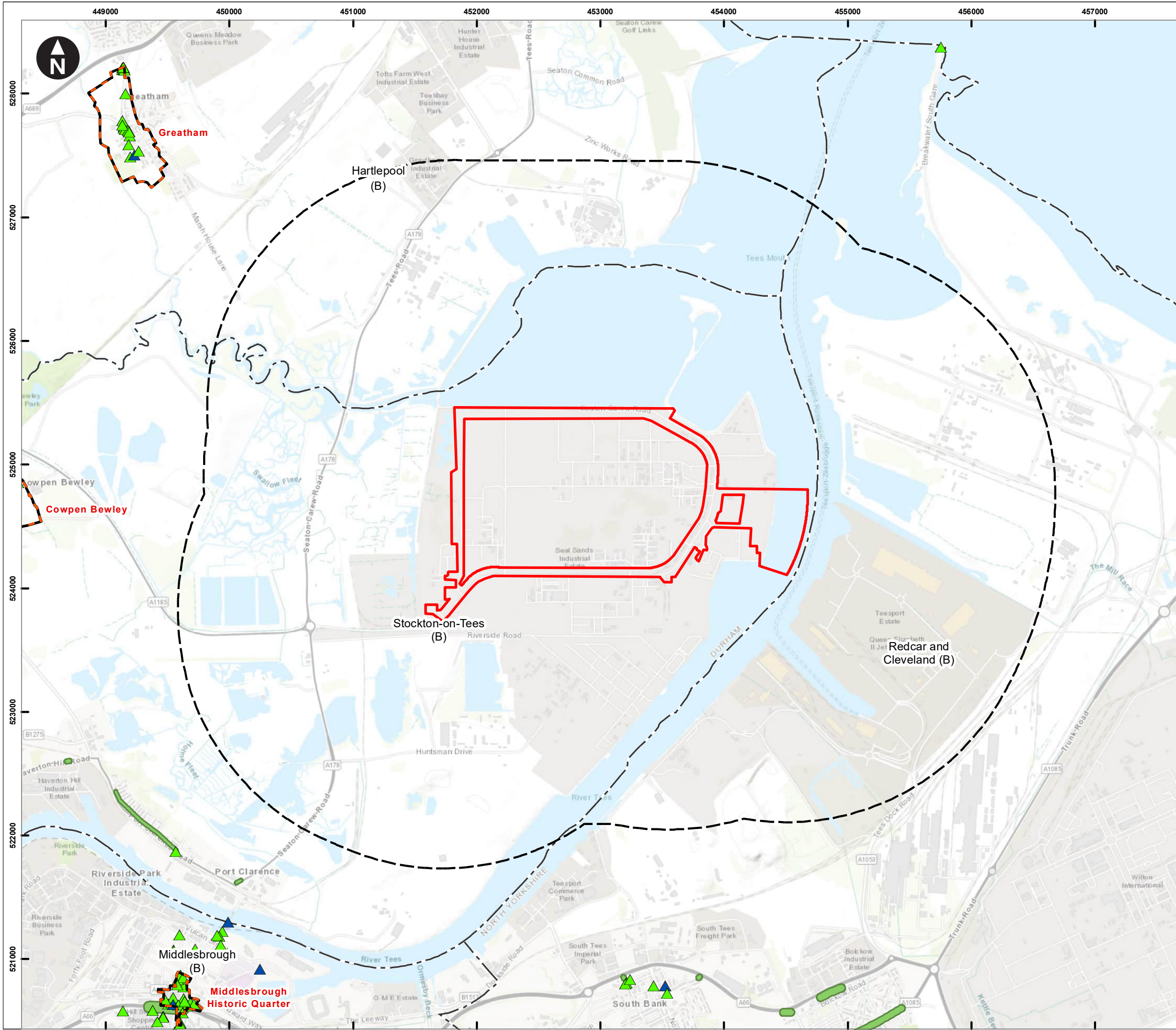
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**Figure 2.1c
Environmental Context:
Topography; National and Marine
Landscape Character Areas**

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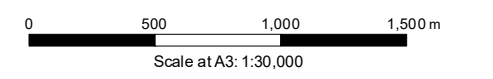


Key

- Proposed site boundary
- 2km search area
- Local Authority Boundary
- Noise Important Area Round 3
- Conservation Area

Listed Building

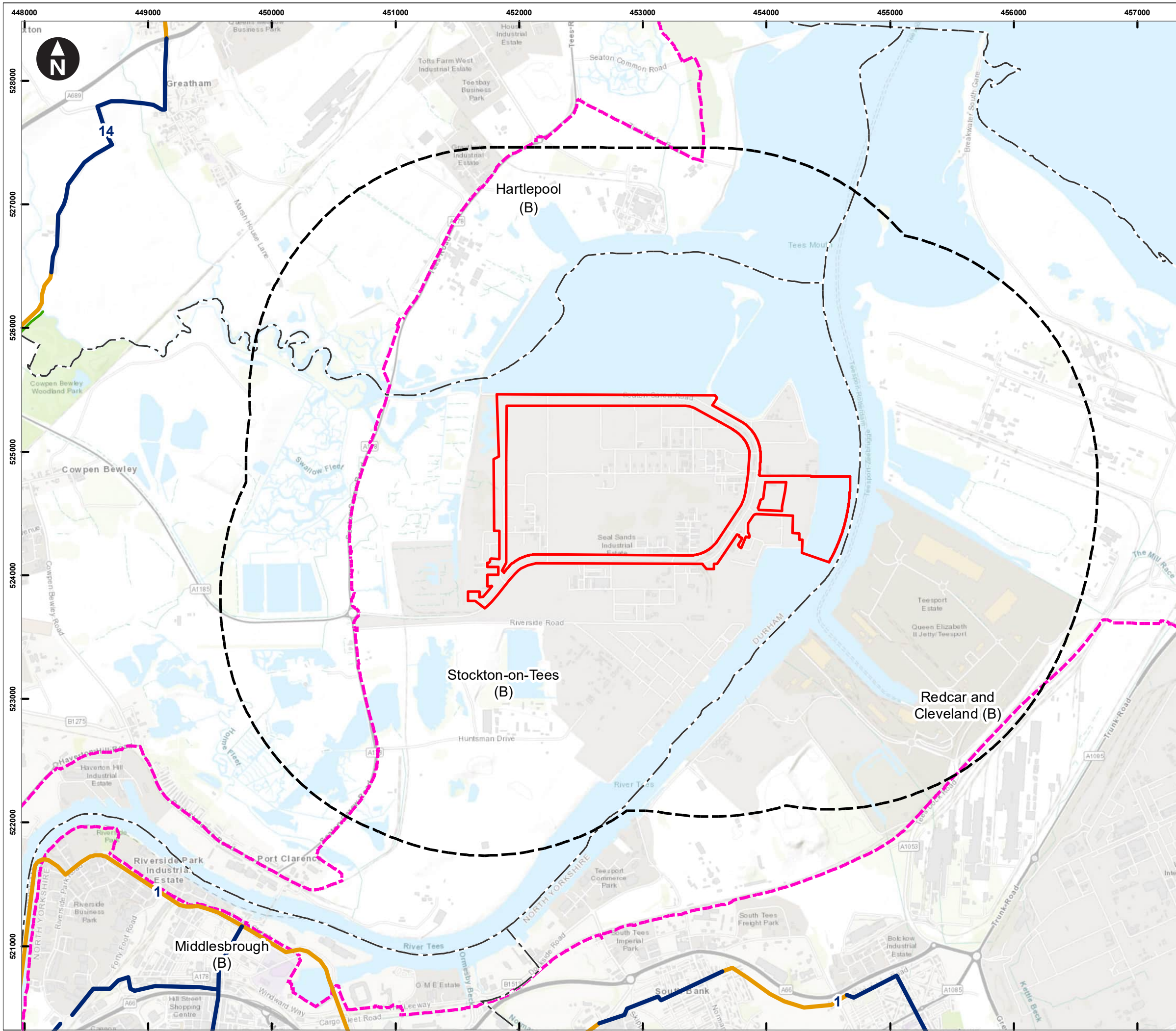
- ▲ Grade II*
- ▲ Grade II



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
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**Figure 2.1d
Environmental Context:
Cultural heritage and Noise Important
Areas**



Key

- Proposed site boundary
- 2km search area
- Local Authority
- England Coast Path
- Public Right of Way (PRoW)

National Cycle Route

- On road
- Traffic free


0 500 1,000 1,500 m
Scale at A3: 1:30,000

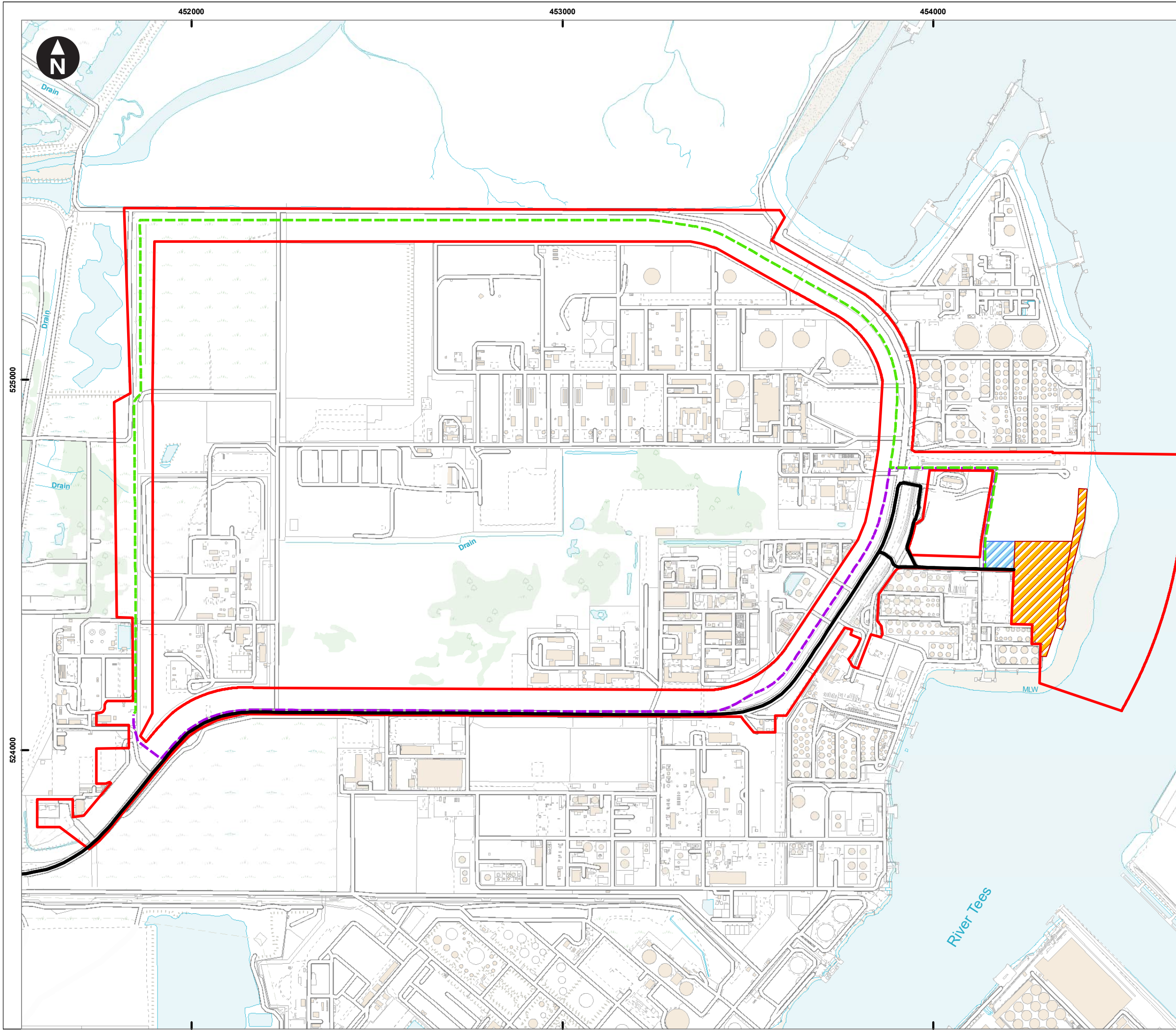
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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Figure 2.1e
Environmental Context:
Public Rights of Way, Recreational Routes
and National Cycle Network

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- Key
- Proposed site boundary
 - Northern Export Pipeline route option
 - Southern Export Pipeline route option
 - Regas and Storage Area
 - Welfare/laydown
 - Construction access route

0 250 500 m
Scale at A3: 1:10,000

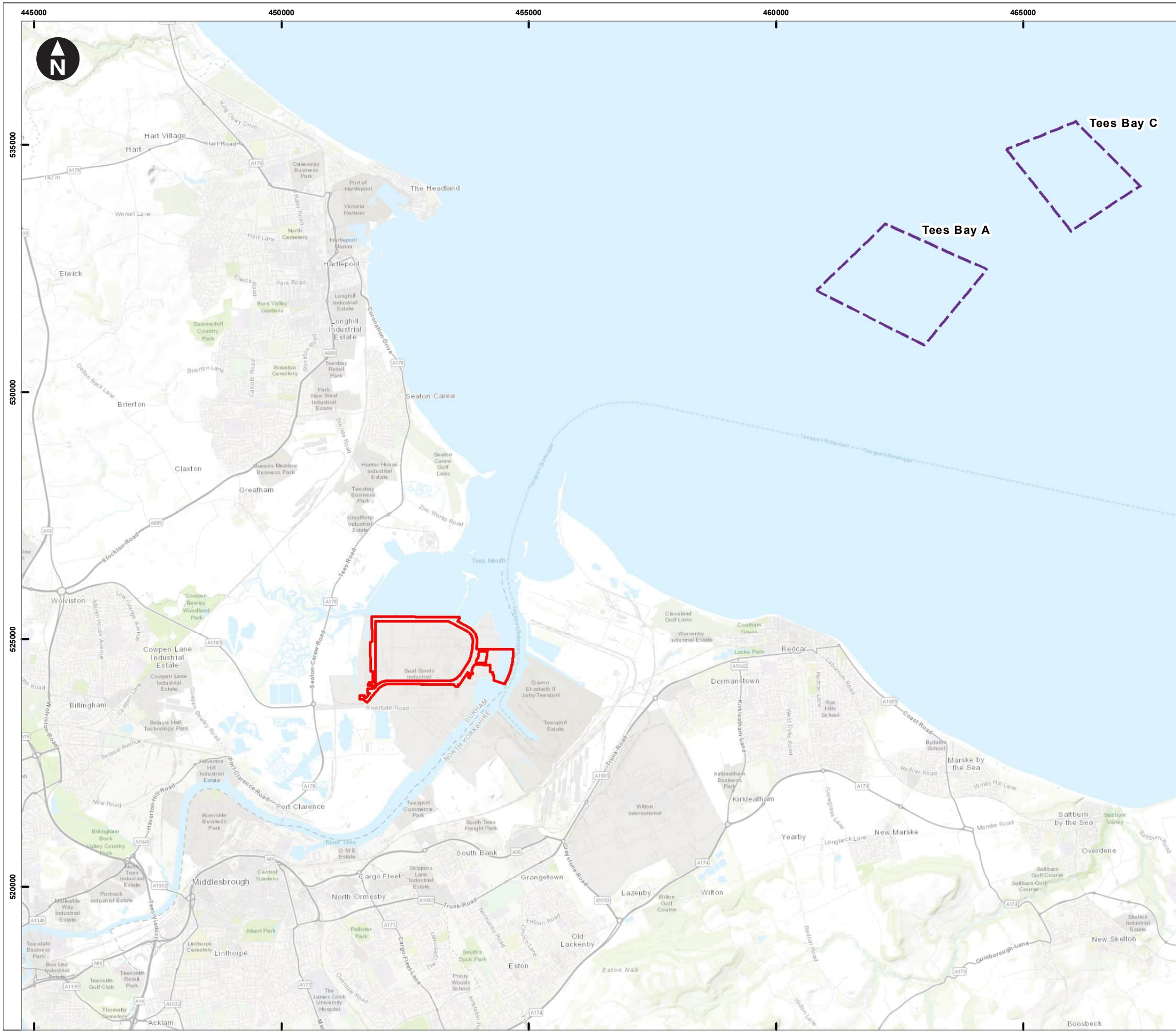
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Figure 2.2
Indicative site allocation

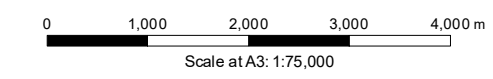
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Key

- Proposed site boundary
- Existing offshore disposal site (approximate location)



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**Figure 2.3
Locations of Existing Capital and
Maintenance disposal sites**

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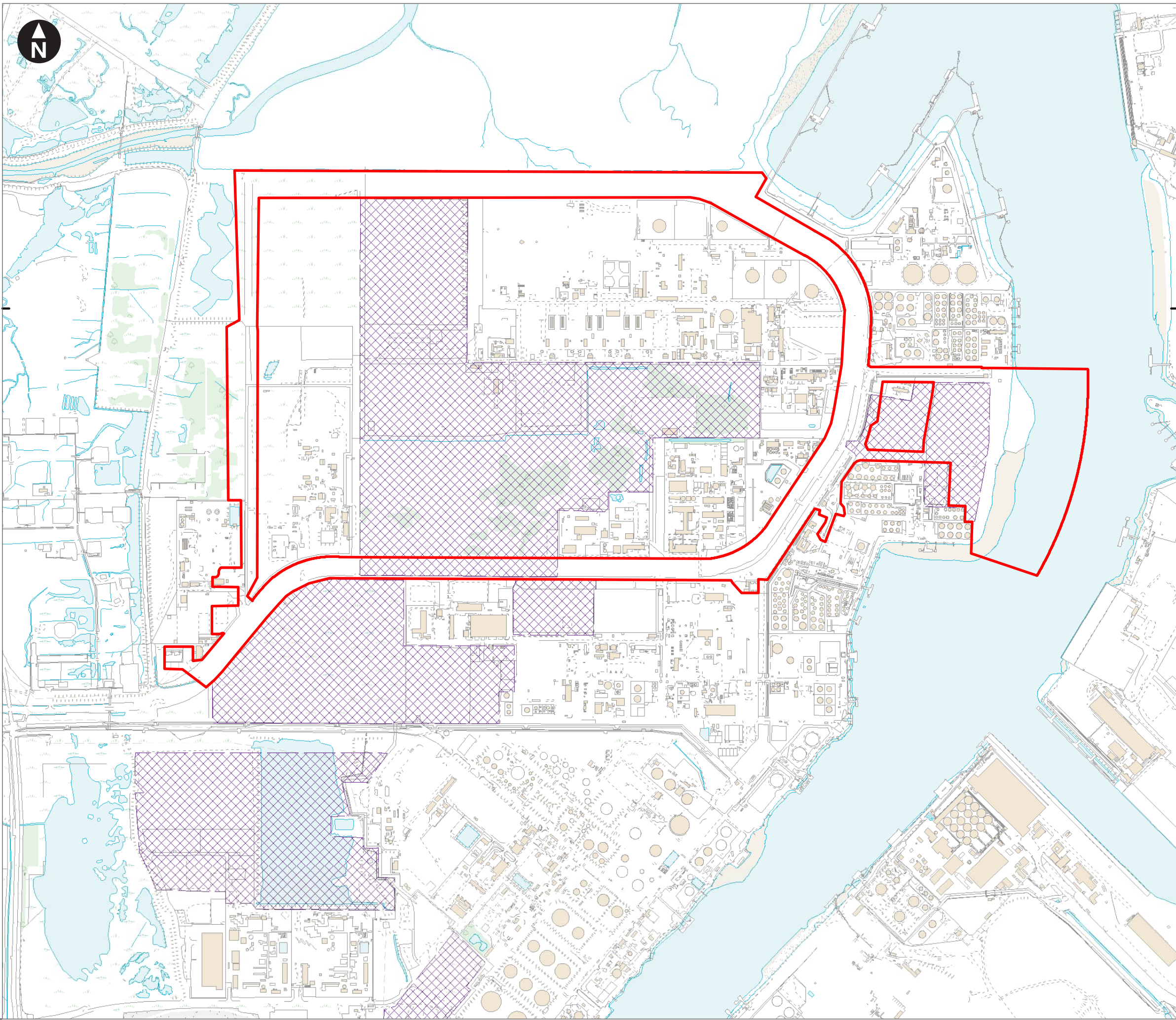




CHAPTER 3 REGULATORY, PLANNING AND ENERGY POLICY

FIGURE 3.1 LOCAL PLAN POLICIES RELEVANT TO THE SITE

525000



Key

- Proposed site boundary
- Employment allocation

Information taken from Stockton on Tees Borough Council "Local Plan Policies Map" adopted 30 January 2019

0 250 500 m
Scale at A3: 1:12,500

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Figure 3.1
Local Plan Policies Relevant to the Site

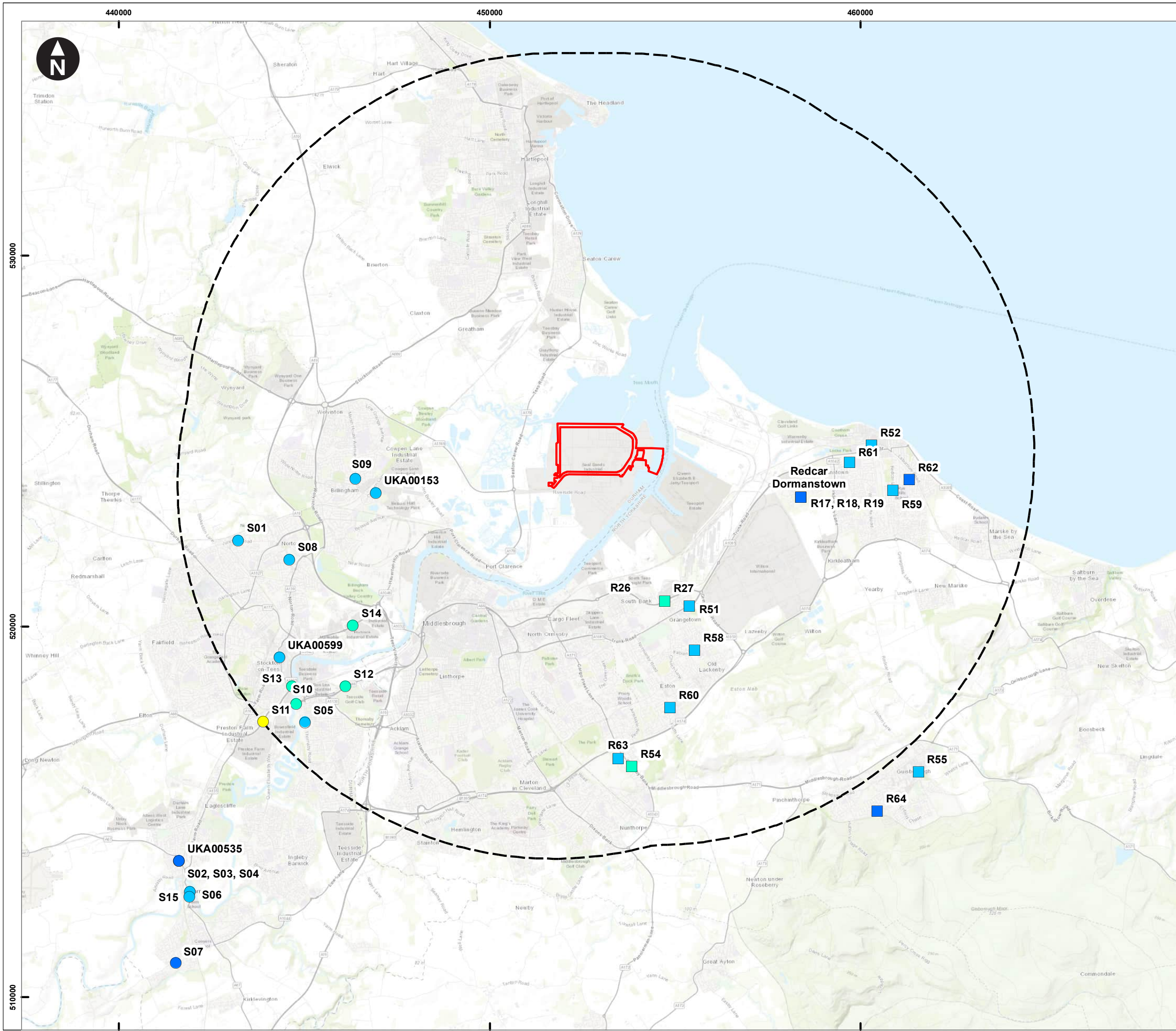
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CHAPTER 5 AIR QUALITY

FIGURE 5.1 AIR QUALITY MONITORING



Key

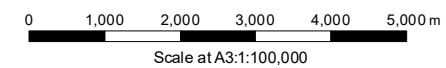
- Proposed site boundary
- Air quality study area

SoTBC Monitored Annual Mean NO2 ($\mu\text{g}/\text{m}^3$)

- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 36
- 36 - 40
- >40

RCBC Monitored Annual Mean NO2 ($\mu\text{g}/\text{m}^3$)

- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 36
- 36 - 40
- >40



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

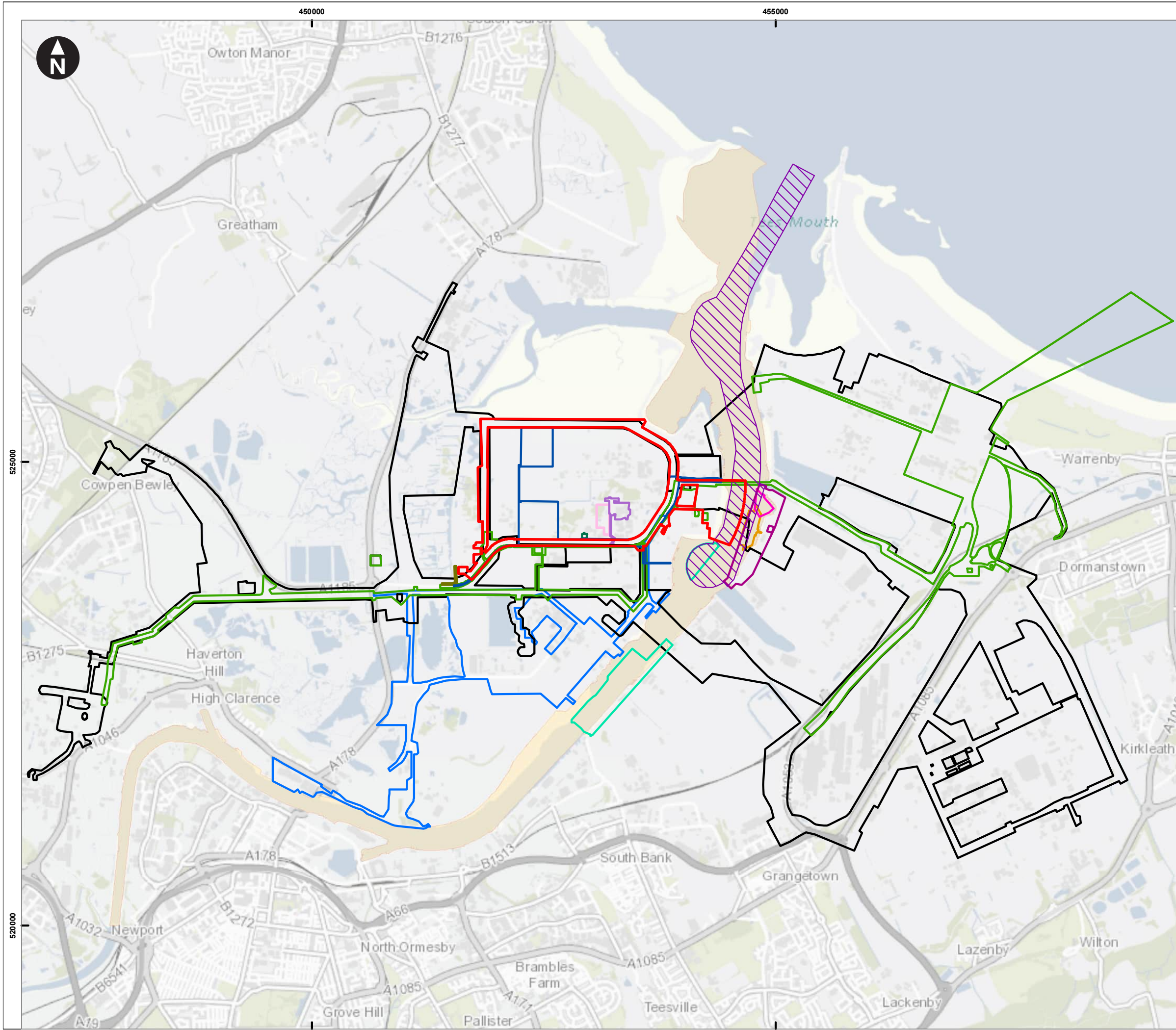
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**Figure 5.1
Air quality monitoring**



CHAPTER 7 BIODIVERSITY

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- FIGURE 7.7 BTO WEBS – TEES ESTUARY HIGH TIDE COUNT SECTORS**
- FIGURE 7.8 MARINE ZOI AND STUDY AREA**



Key


- Proposed site boundary
- Northern Gateway Container Terminal MLA_2020_00079
- NGCT Proposed dredge footprint MLA_2020_00079
- Riverside Ro-Ro MLA_2021_00405
- Teesside Gas Port MLA_2019_00469
- Seal Sands LPG Container 22_0339_FUL
- Land at Seal Sands, Enzygo 23_1019_EIS
- South Bank Quay MLA_2020_00506 & MLA_2020_00507
- Tees and Hartlepool Maintenance Dredge Disposal L_2015_00427
- Navigator Terminals, Seal Sands 23_1156_FUL
- Net Zero Teesside
- H2 Teesside (December 2023 consultation boundary)
- Epax Pharma UK 20_0867_FUL (Seal Sands)
- Lianhetech 19_2161_FUL Seal Sands
- Lighthouse Greenfuels (Scoping boundary)
- Land at Seal Sands Energy Recovery Facility 22_01525_EIS

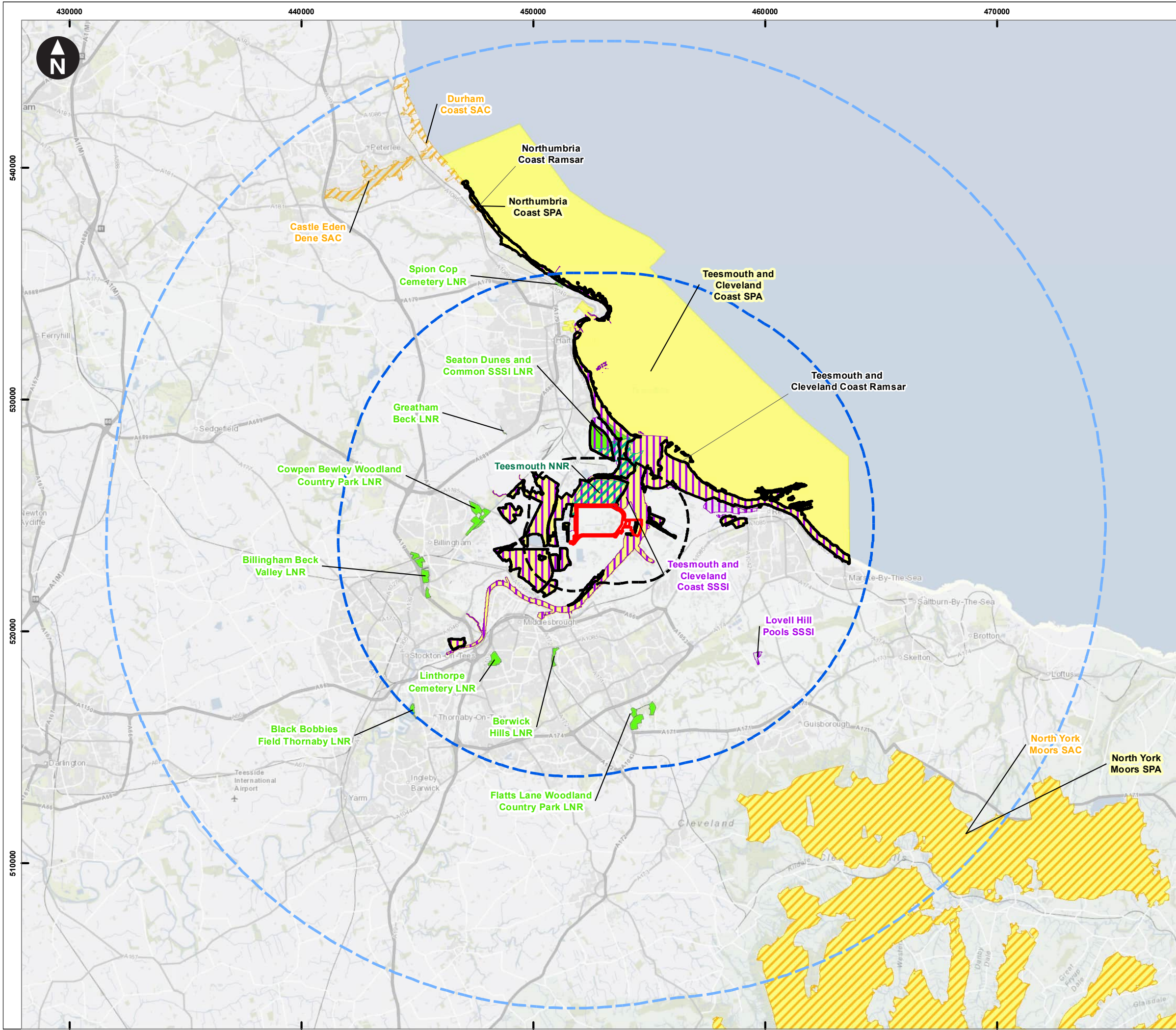
0 500 1,000 1,500 2,000 m
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Figure 7.1
Site and other planning application boundaries

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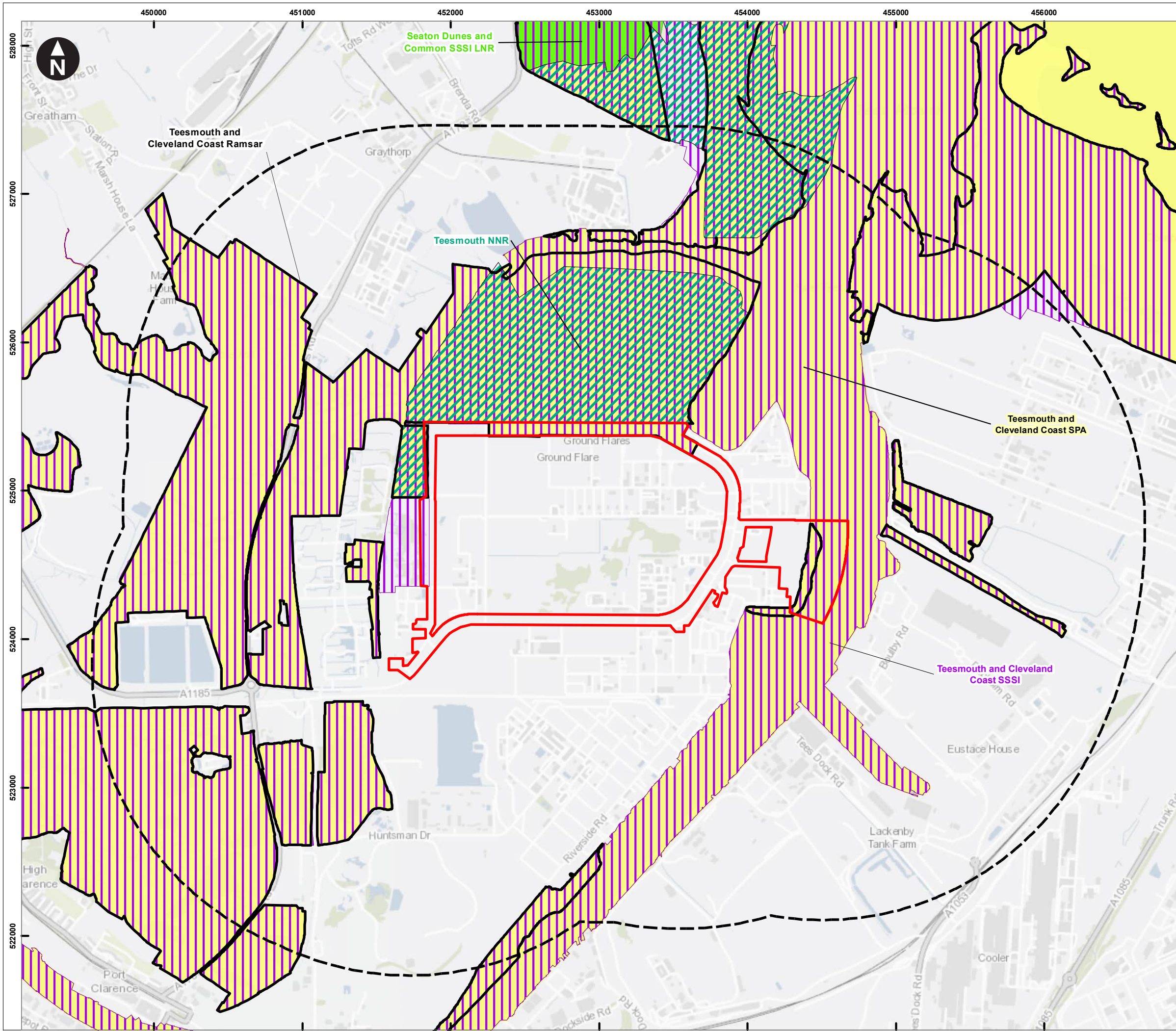
Key

- Proposed site boundary
- 2km search area
- 10km search area
- 20km search area
- Ramsar site
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)

0 2,000 4,000 6,000 8,000 m
Scale at A3:1:160,000
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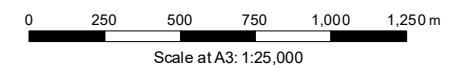
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Figure 7.2a
Statutory designated sites



Key

- Proposed site boundary
- 2km search area
- Ramsar site
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)



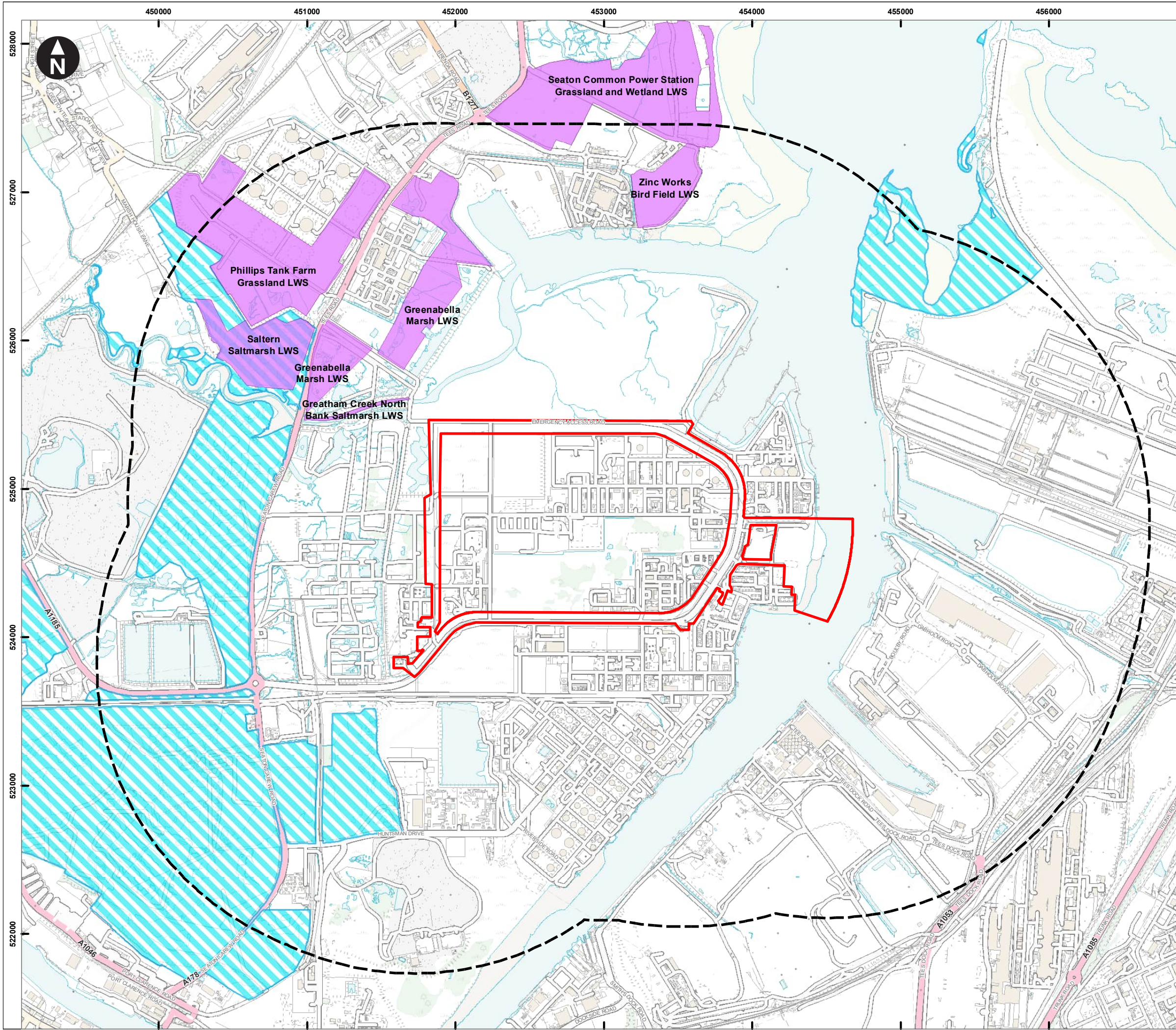
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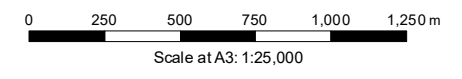
Figure 7.2b
Statutory designated sites within 2km

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- Key
- Proposed site boundary
 - 2km search area
 - RSPB Salthome Reserve
 - Local Wildlife Site (LWS)



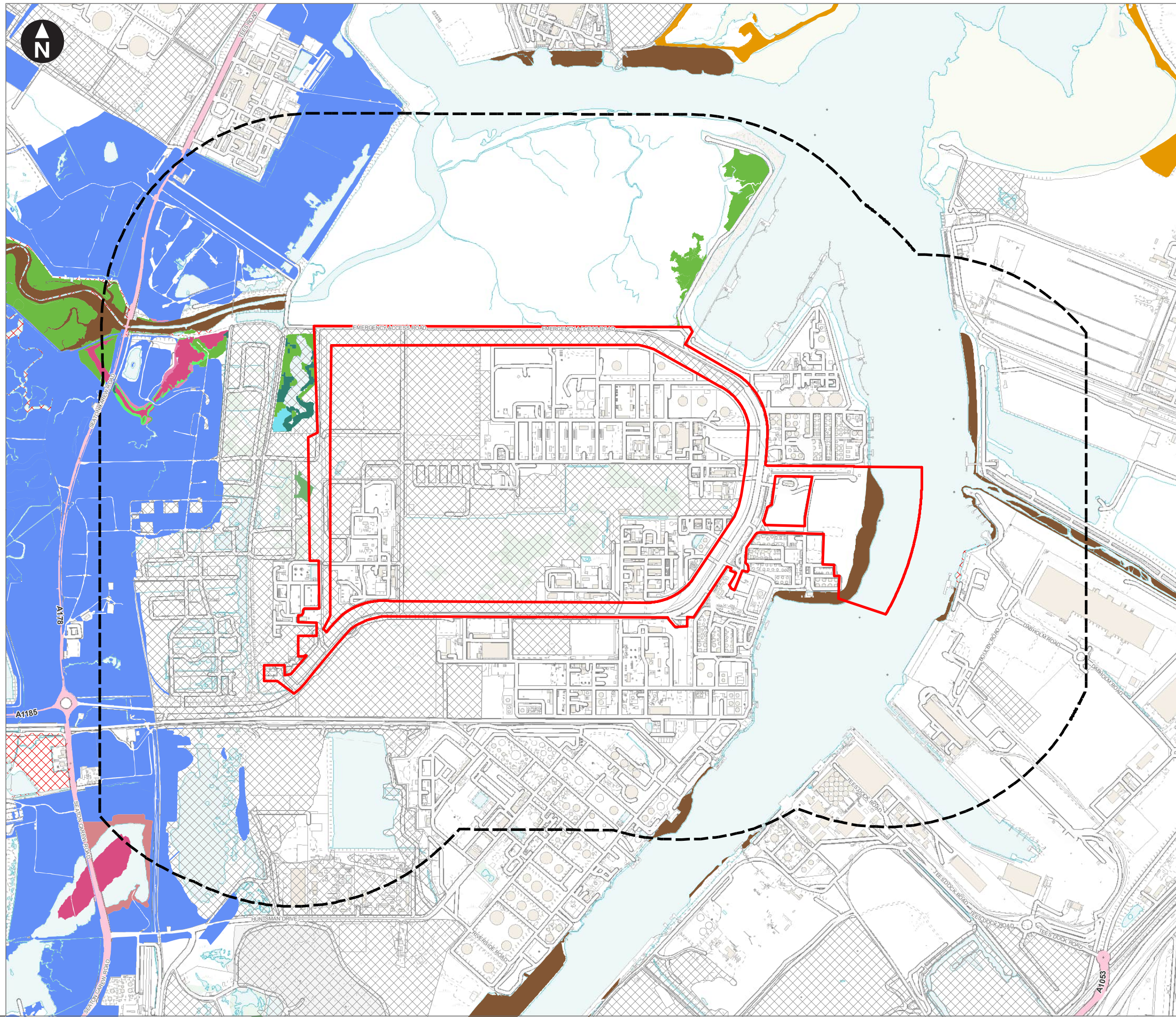
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Figure 7.3
Non-statutory designated sites

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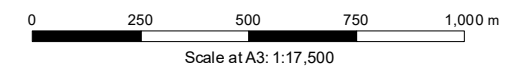


Key

- Proposed site boundary
- 1km search area

Priority habitat

- Coastal and floodplain grazing marsh
- Coastal and floodplain grazing marsh, Coastal saltmarsh
- Coastal saltmarsh
- Coastal saltmarsh, Saline lagoons
- Coastal sand dunes
- Deciduous woodland
- Lowland fens
- Mudflats
- Reedbeds
- Reedbeds, Coastal saltmarsh
- Saline lagoons
- No main habitat but additional habitats present
- Open mosaic



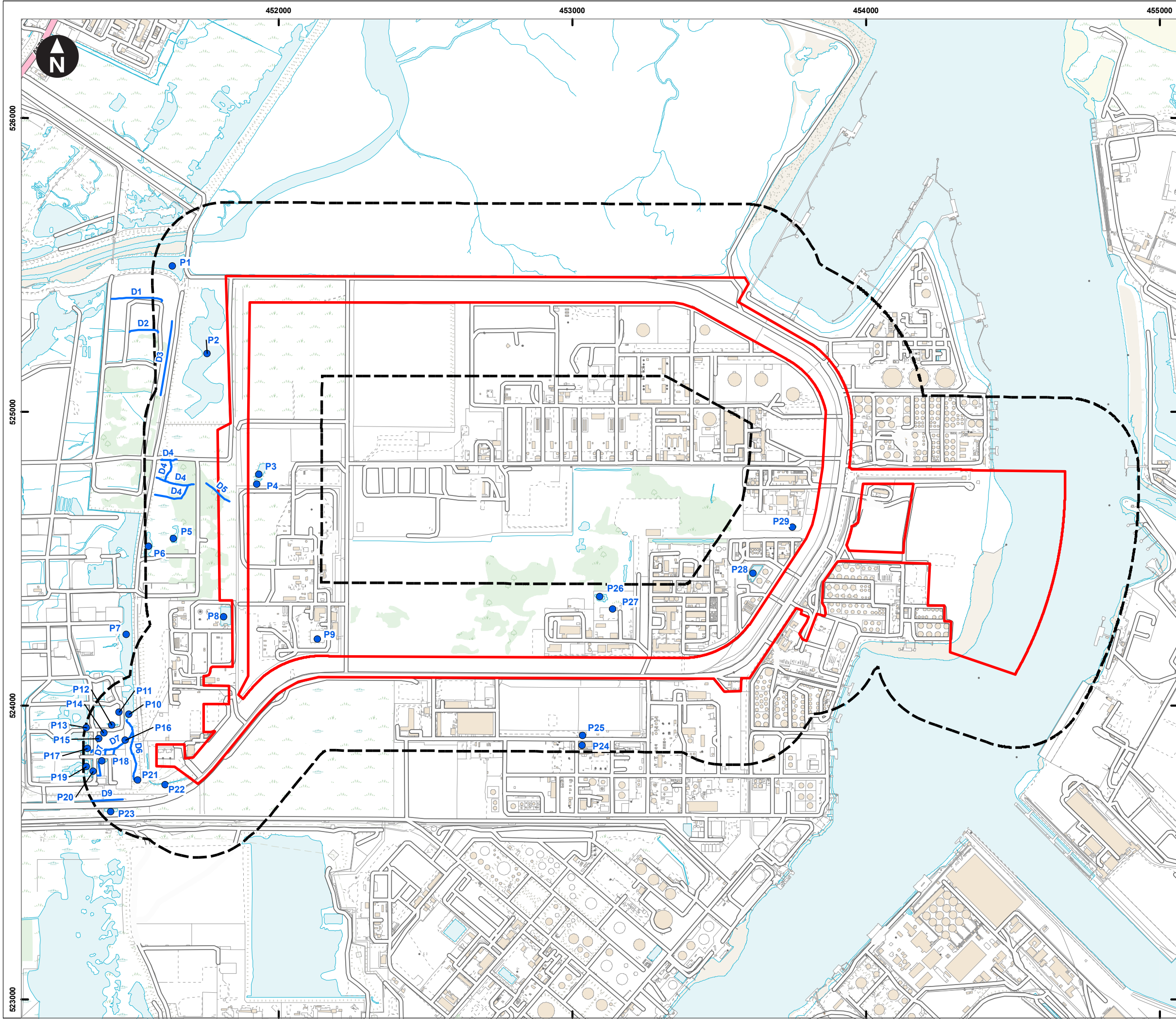
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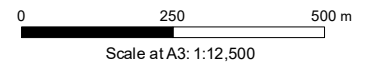
Figure 7.4
Habitats of Principal Importance

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- Key
- Proposed site boundary
 - 250m search area
 - Potential pond
 - Potential ditch



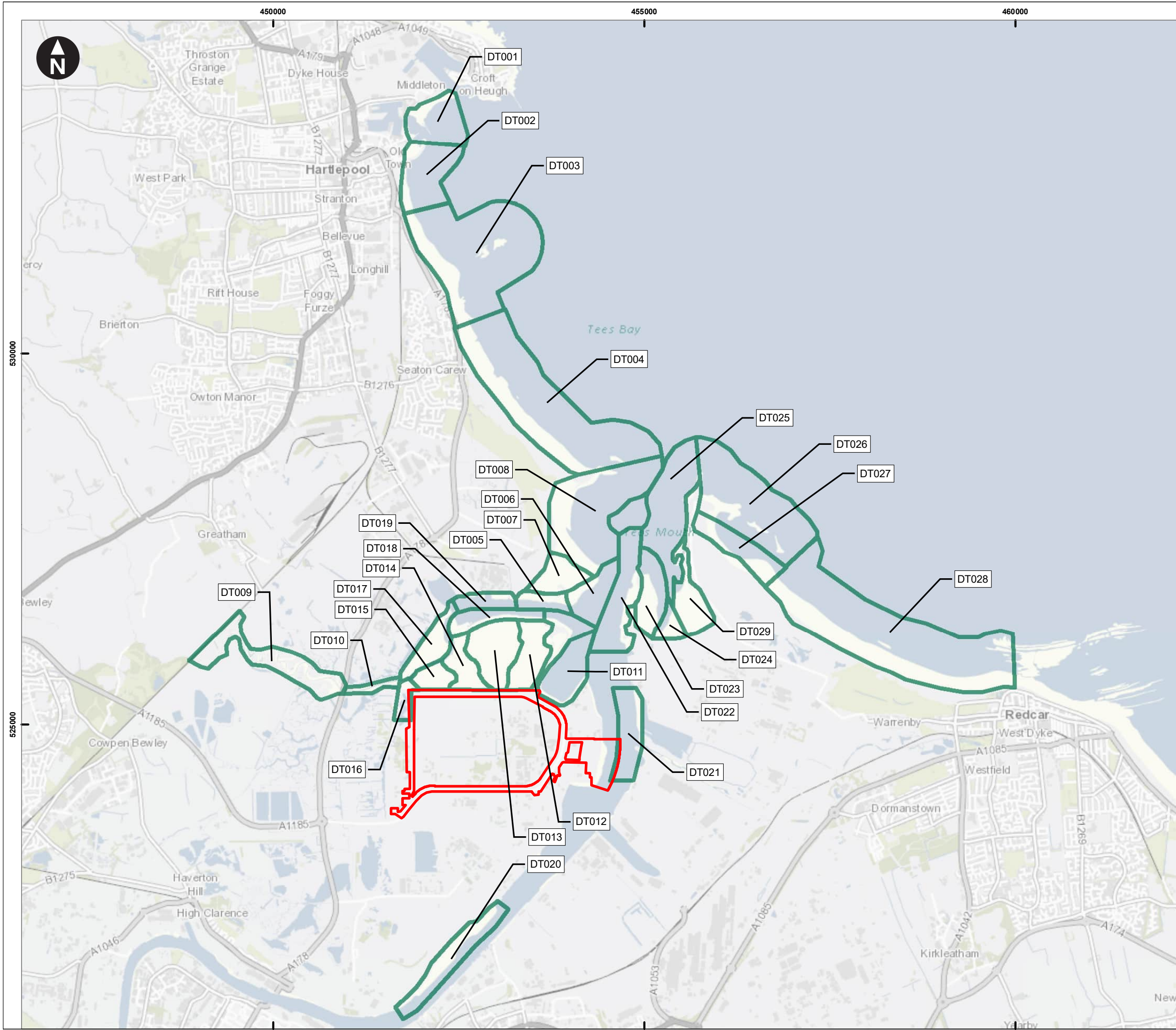
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Figure 7.5
Waterbodies

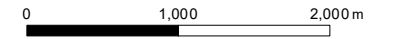
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Key

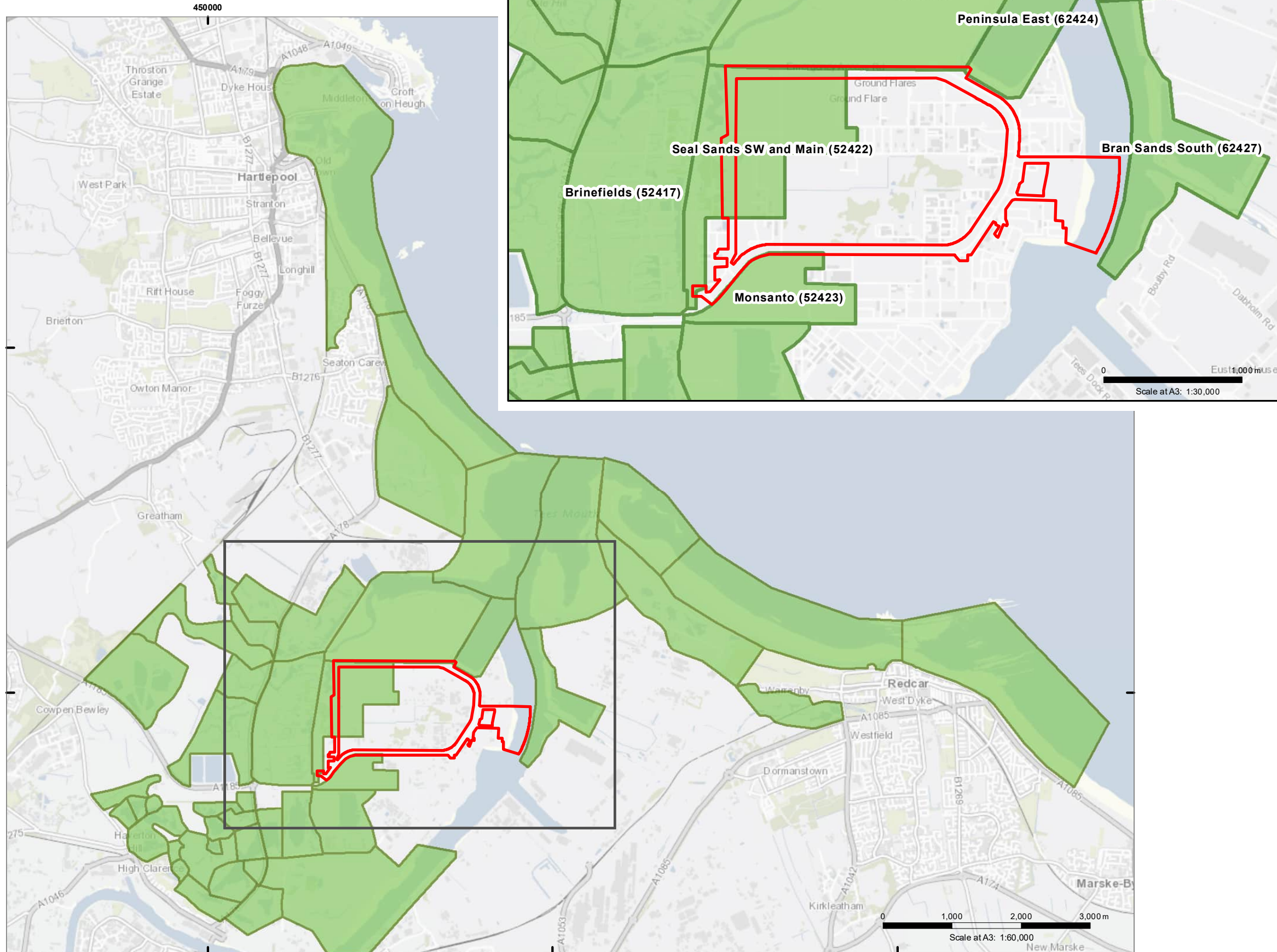
- Proposed site boundary
- BTO sector



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 Sectors derived from British Trust for Ornithology Website. © British Trust for Ornithology

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Figure 7.6
BTO WeBS - Tees Estuary Low Tide Count Sectors



- Key
- Proposed site
 - BTO sector

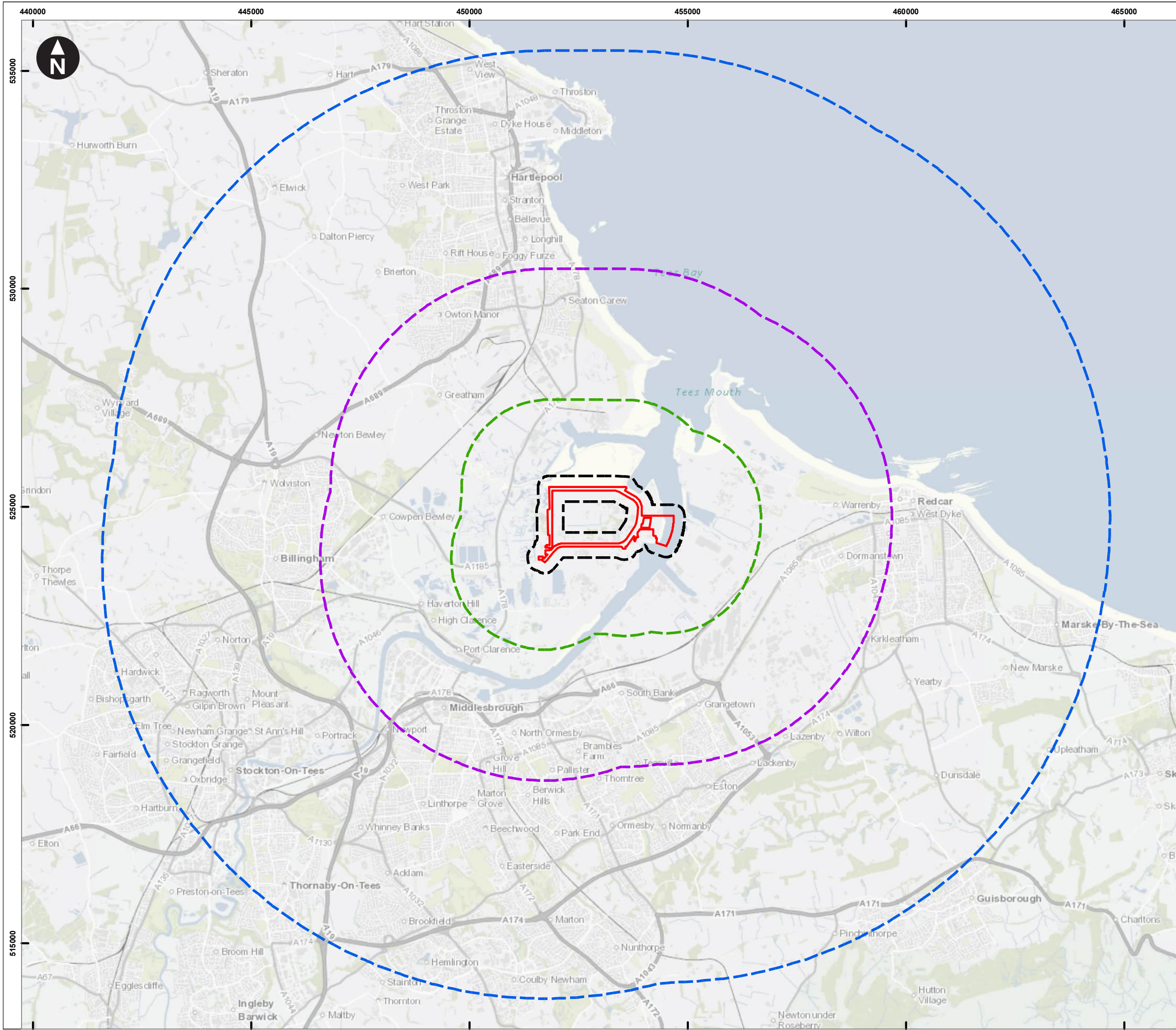
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Figure 7.7
BTO WeBS - Tees Estuary High Tide Count Sectors

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Key

- Proposed site boundary

Zone of influence for Freshwater and Marine Receptors


- 250m search area
- 2km search area
- 5km search area
- 10km search area

0 1,000 2,000 3,000 4,000 m
Scale at A3: 1:85,000
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Figure 7.8
Marine and freshwater biodiversity study area

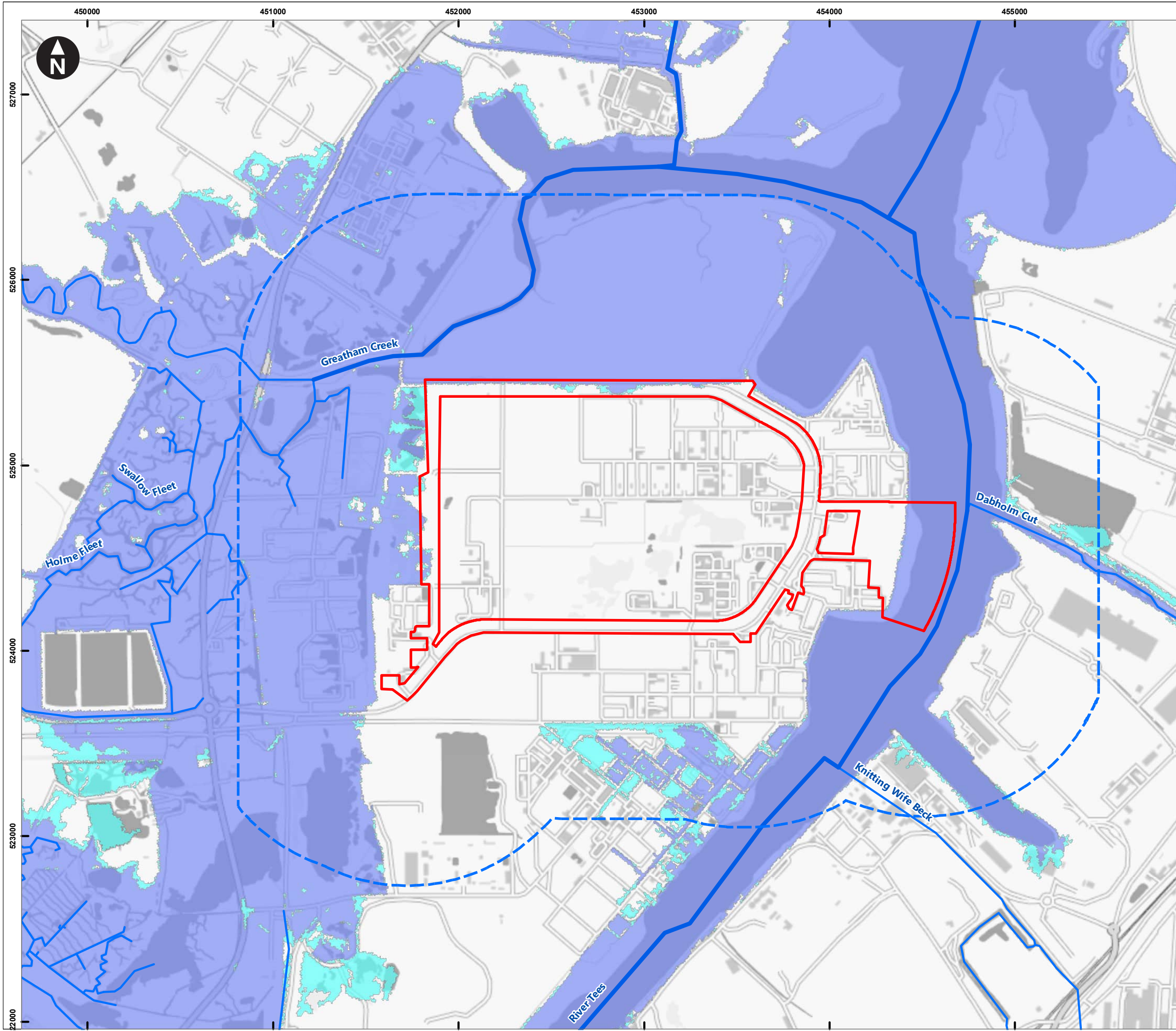
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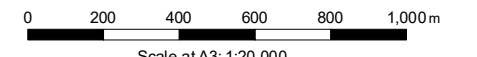


CHAPTER 8 WATER ENVIRONMENT AND FLOOD RISK

- FIGURE 8.1 FLOOD ZONE AND RIVERS**
- FIGURE 8.2 RISK OF FLOODING FROM SURFACE WATER**
- FIGURE 8.3 RISK OF FLOODING FROM RESERVOIRS**
- FIGURE 8.4 GROUNDWATER BODIES**
- FIGURE 8.5 DESIGNATED SITES WITHIN 5KM**
- FIGURE 8.6 SURFACE WATER FEATURES**
- FIGURE 8.7 SURFACE AND GROUNDWATER ABSTRACTION AND DISCHARGE CONSENTS**



- Key
- Proposed site boundary
 - Surface water study area (1km buffer zone)
 - Main river
 - Ordinary watercourse
 - Environment Agency Flood Zone 3
 - Environment Agency Flood Zone 2
 - Environment Agency Flood Zone 1

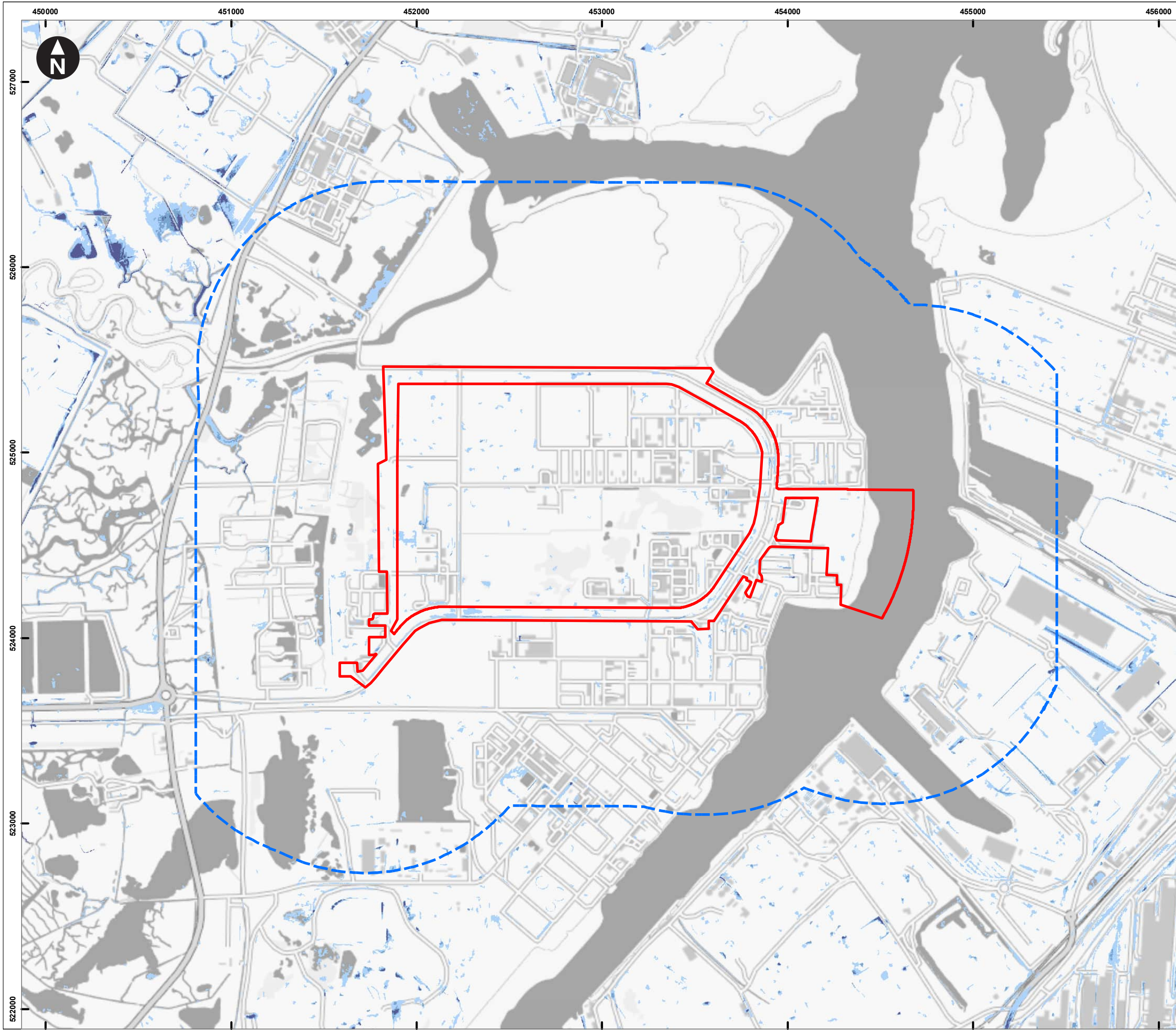


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Figure 8.1
Flood Zones and Rivers

\\uk.wspgroup.com\central_data\Projects\70118xxx\70118932 - Wave Crest Energy - Energy Security project\03 WIP\Drawings\GIS\MXD\70118932-WSPE-FG-OW-00002_P01.mxd Originator: UKJXP782



- Key
- Proposed site boundary
 - Surface water study area (1km buffer zone)
 - High Risk (Greater than 1 in 30 years, >3.3% AEP)
 - Medium Risk (Between 1 in 30 and 1 in 100 years, 3.3 - 1% AEP)
 - Low Risk (Between 1 in 100 and 1 in 1000 years, 1 - 0.1% AEP)

0 200 400 600 800 1,000m

Scale at A3: 1:20,000

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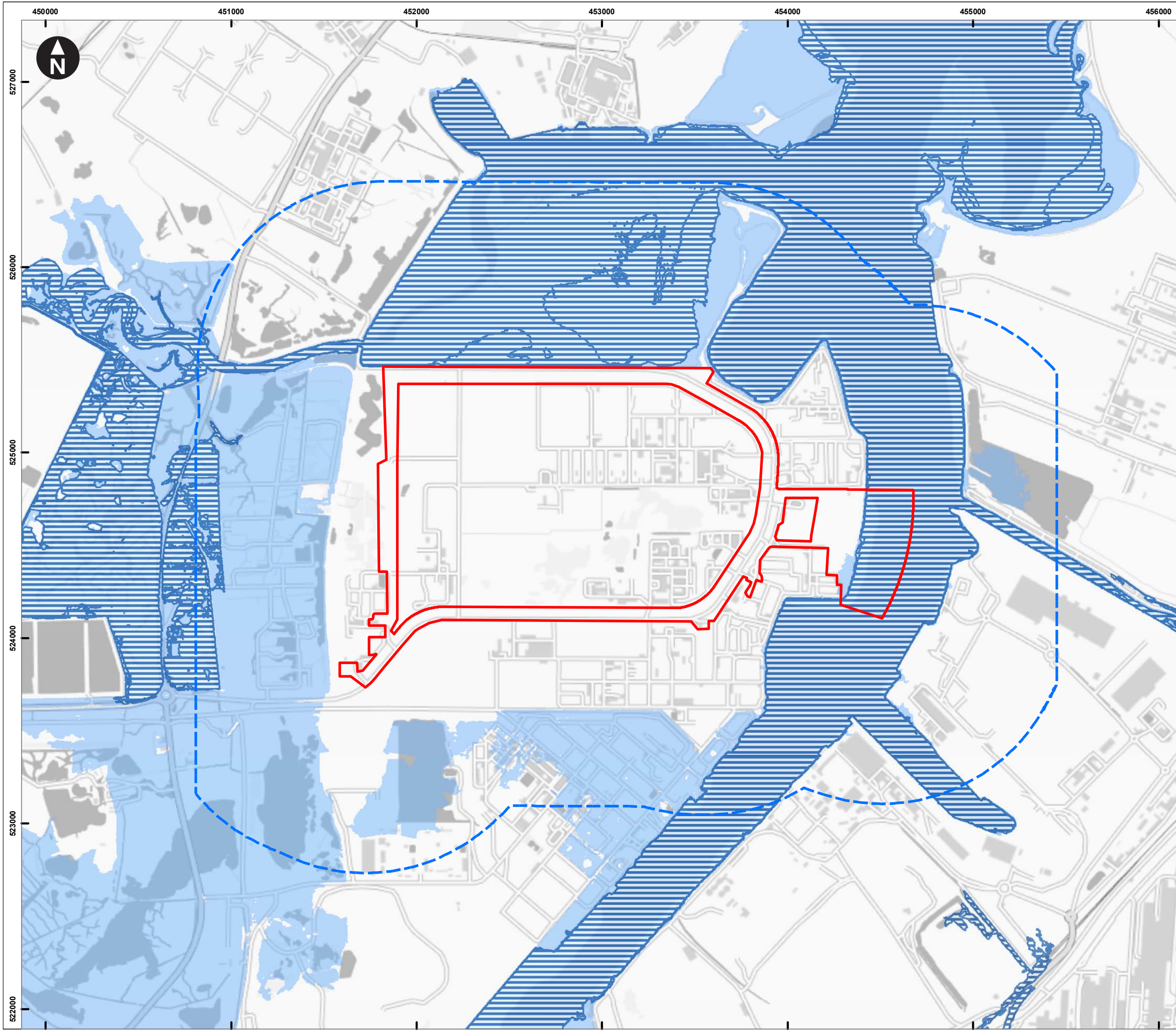
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Figure 8.2
Risk of flooding from surface water

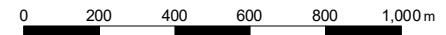
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- Key
- Surface water study area (1km buffer zone)
 - Proposed site boundary
 - Flood Risk From Reservoirs when river levels are normal (Dry day scenario)
 - Flood Risk from Reservoirs when there is also flooding from the rivers (Wet day scenario)



Scale at A3: 1:20,000

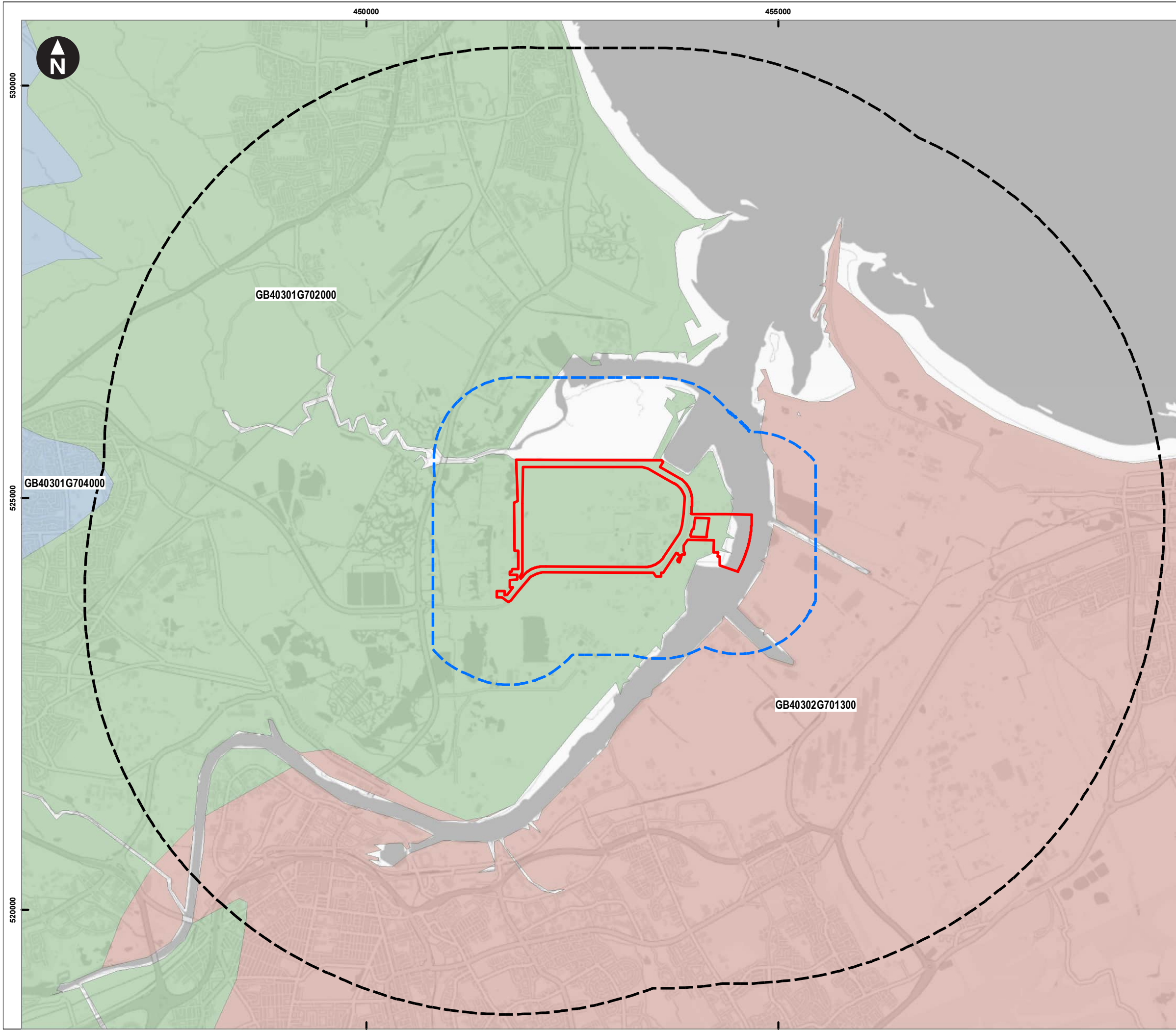
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Figure 8.3
Risk of Flooding from Reservoirs

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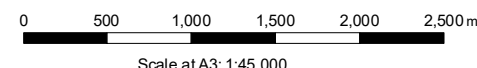


Key

- Proposed site boundary
- Groundwater study area (5km buffer zone)
- Surface water study area (1km buffer zone)

Groundwater Body

- Tees Sherwood Sandstone (GB40301G702000)
- Skerne Magnesian Limestone (GB40301G704000)
- Tees Mercia Mudstone & Redcar Mudstone (GB40302G701300)



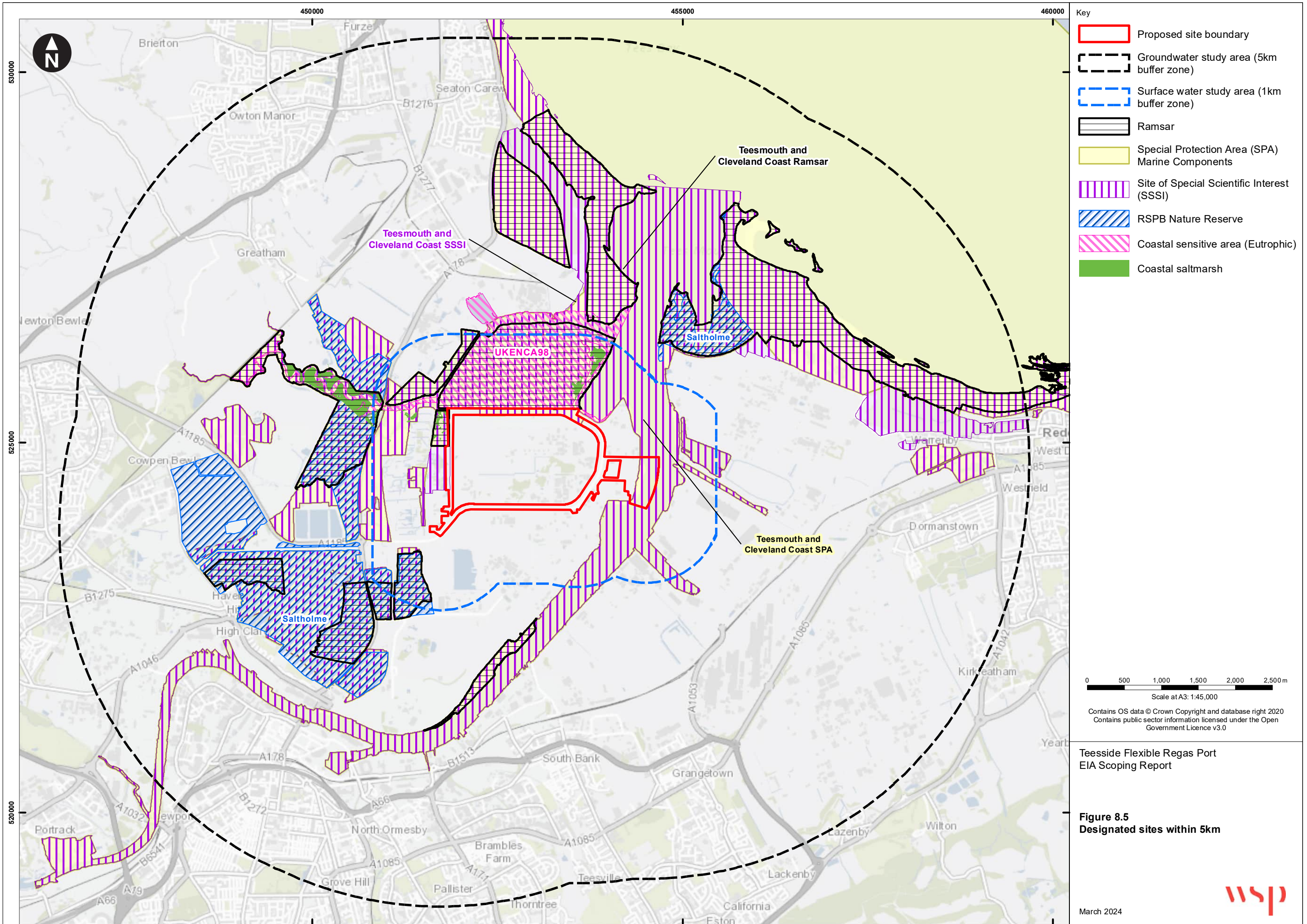
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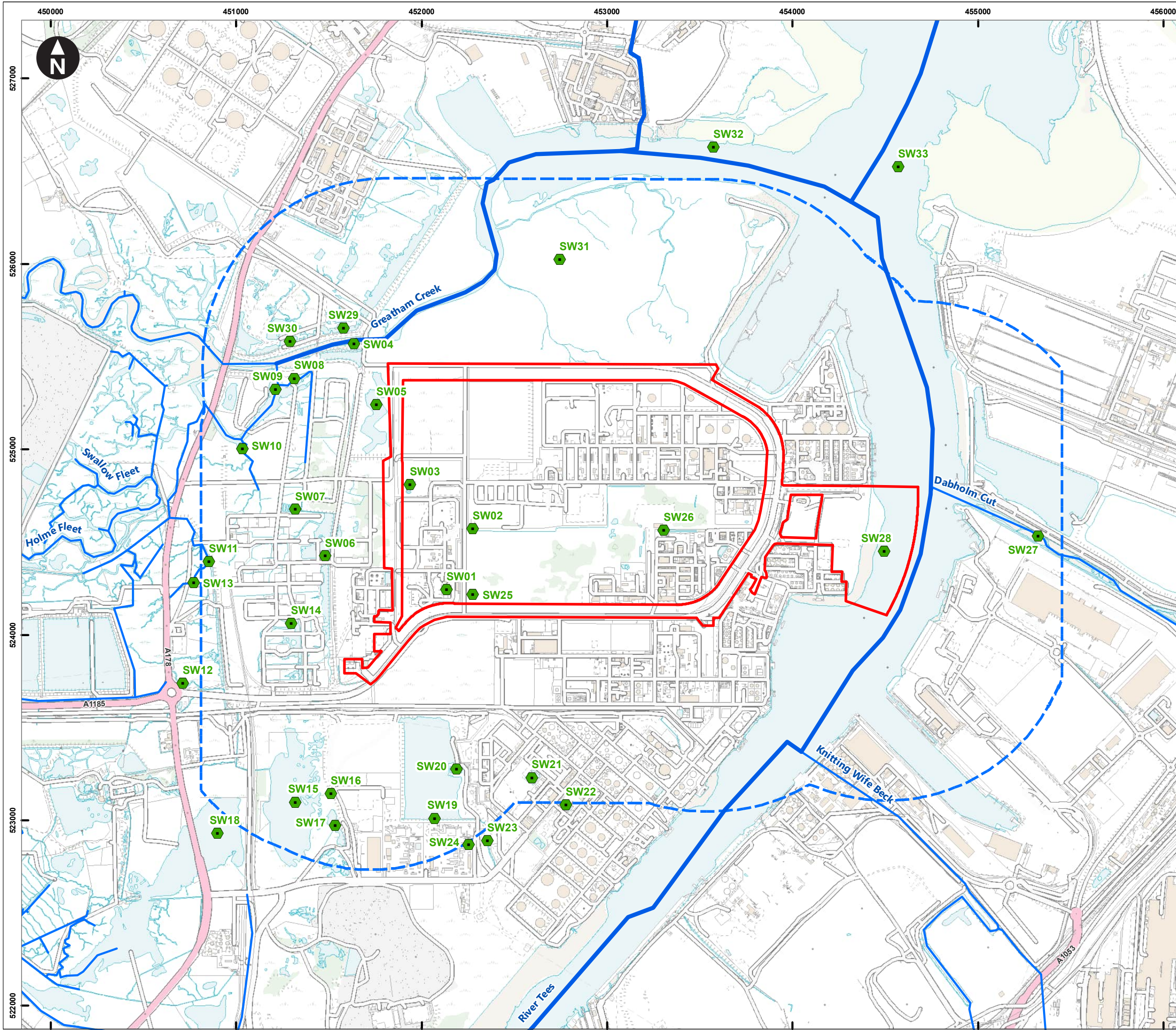
Figure 8.4
Groundwater bodies

March 2024

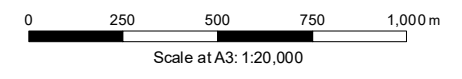




\\uk.wspgroup.com\central_data\Projects\70118932 - Wave Crest Energy - Energy Security project\03 WIP\Drawings\GIS\MXD\70118932-WSPE-FG-OW-00006_P01.mxd Originator: UKJXP782



- Key
- Proposed site boundary
 - Surface water study area (1km buffer zone)
 - Main river
 - Ordinary watercourse
 - Surface water feature: Watercourse / ditch / pond



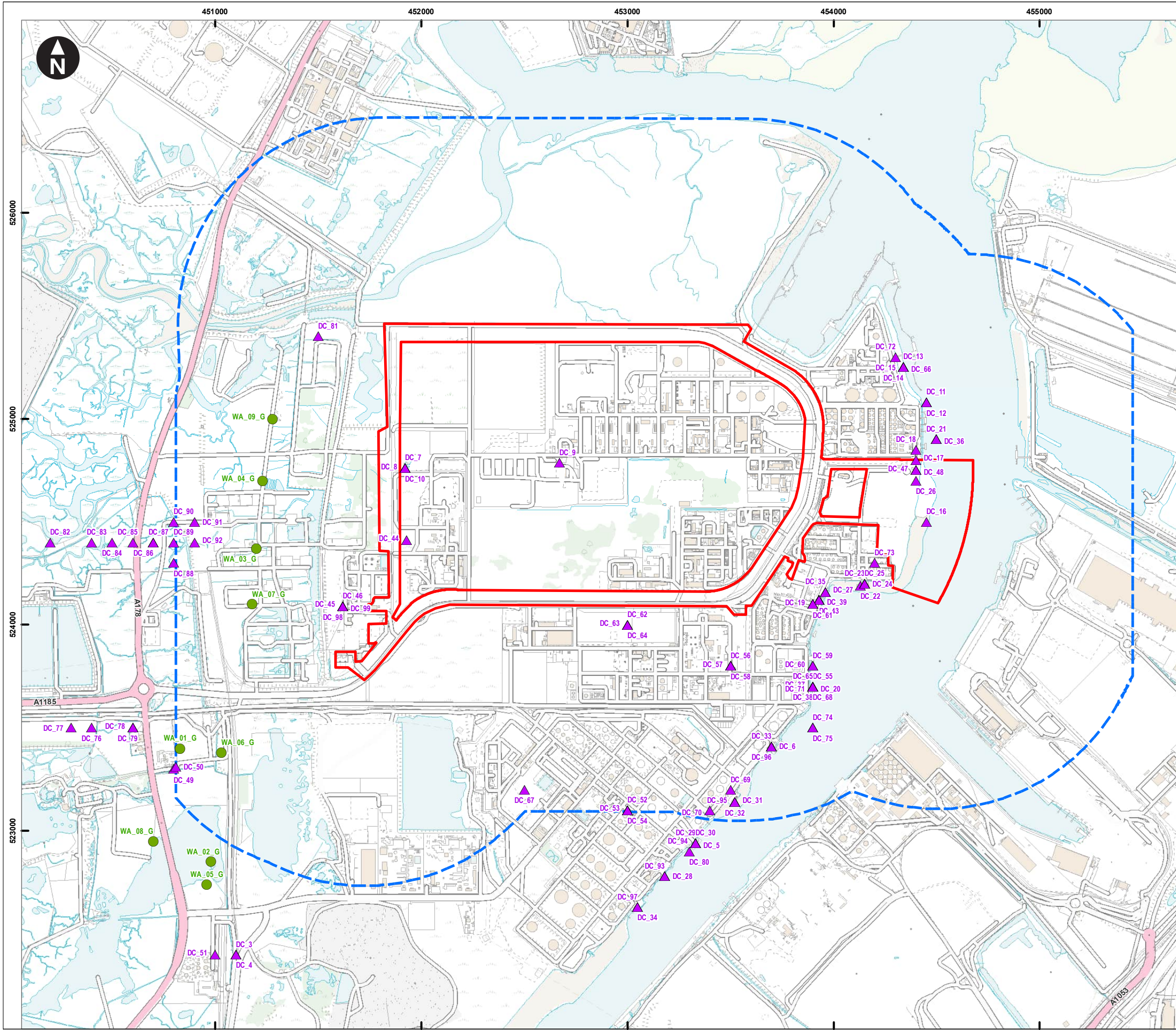
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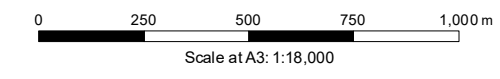
Figure 8.6
Surface water features

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- Key
- Proposed site boundary
 - Groundwater study area (5km buffer zone)
 - Surface water study area (1km buffer zone)
 - Groundwater abstraction
 - Discharge consent



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Figure 8.7
Surface and groundwater abstraction and discharge consents

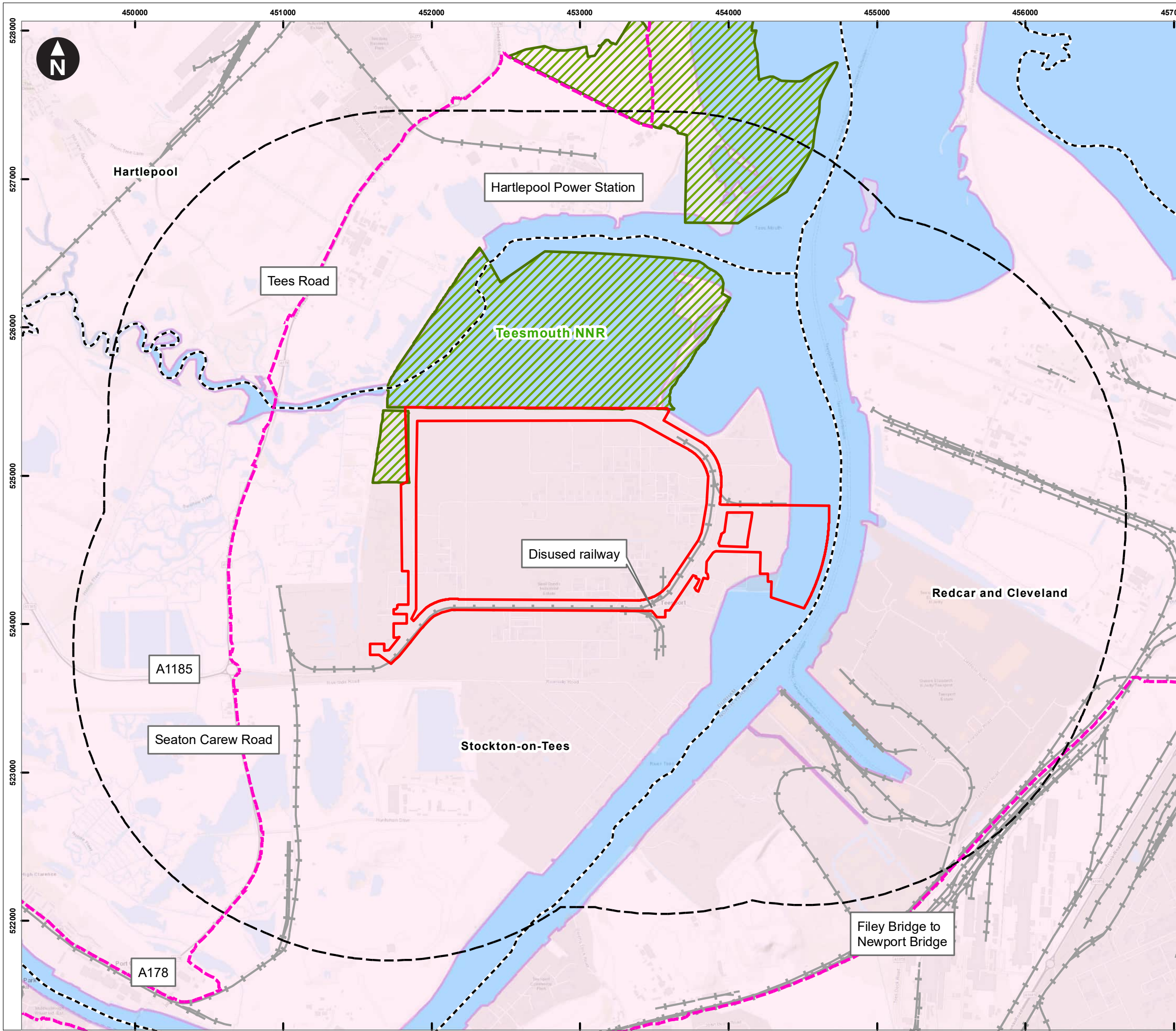
March 2024





CHAPTER 10 LANDSCAPE AND VISUAL

FIGURE 10.1 SITE CONSTRAINTS WITHIN 2KM



Key

- Proposed site boundary
- 2km Study
- District boundary
- Railway line
- England Coast Path

LCA Classification

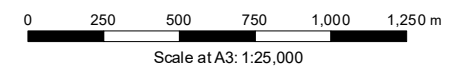
- Tees Lowlands National Character Area

MMO Marine Character Area

- Tyne, Tees and Wear Estuaries and Coastal Waters (MCA22)

Landscape Designations

- National Nature Reserve (NNR)



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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**Figure 10.1
Site constraints within 2km**

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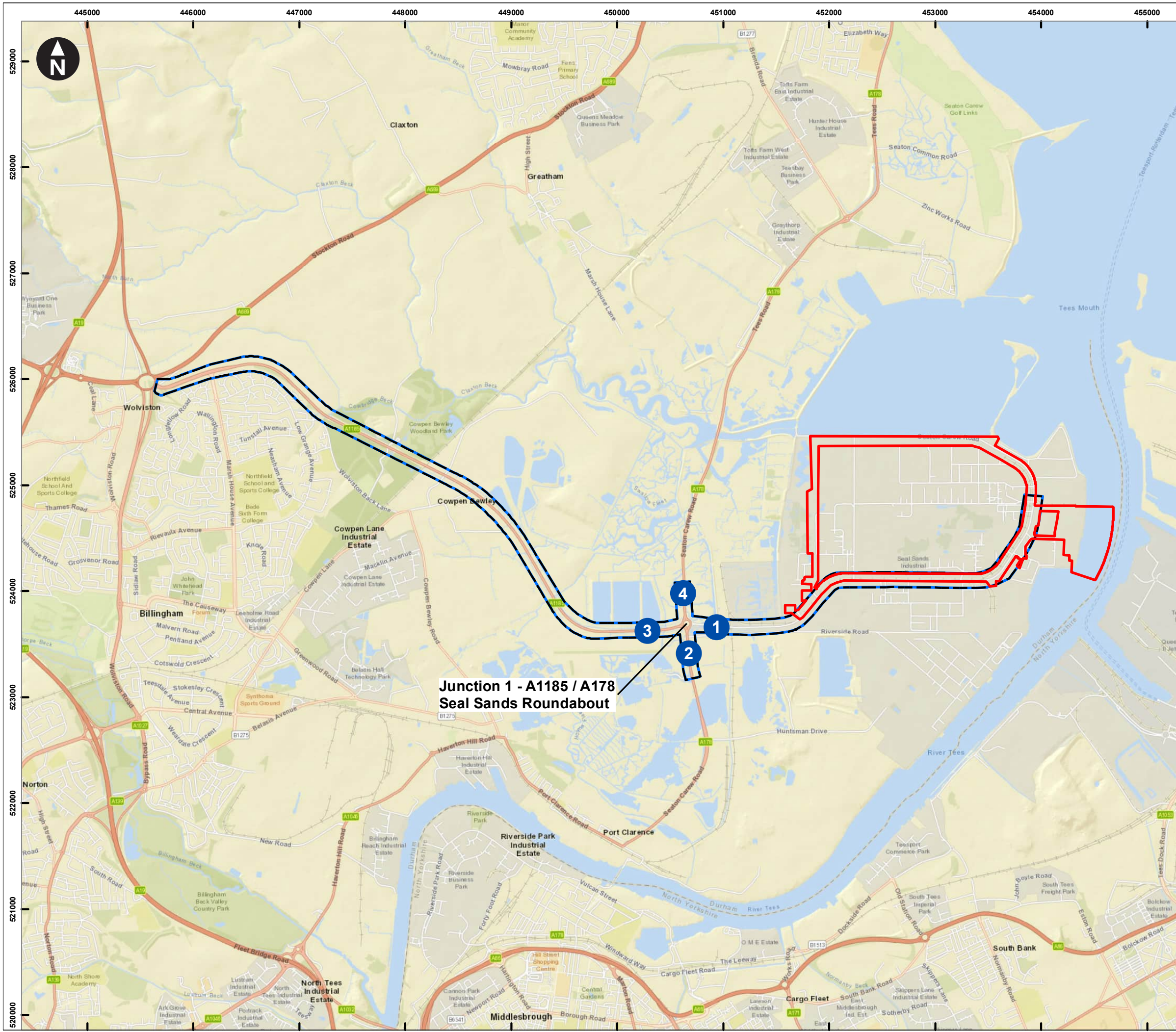
CHAPTER 13 TRAFFIC AND TRANSPORT

FIGURE 13.1 TRANSPORT STUDY AREA

FIGURE 13.2 CONSTRUCTION HGV ROUTES

FIGURE 13.3 WALKING AND CYCLING ACTIVE TRAVEL NETWORK

FIGURE 13.4 DEPARTMENT FOR TRANSPORT TRAFFIC COUNT LOCATIONS



- Key
- Proposed site boundary
 - Transport study area
 - Transport link
 - Link 1 - Seal Sands Main Road
 - Link 2 - A178 Seaton Carew Road South
 - Link 3 - A1185
 - Link 4 - A178 Seaton Carew Road North

0 500 1,000 1,500 2,000 m
Scale at A3: 1:35,000

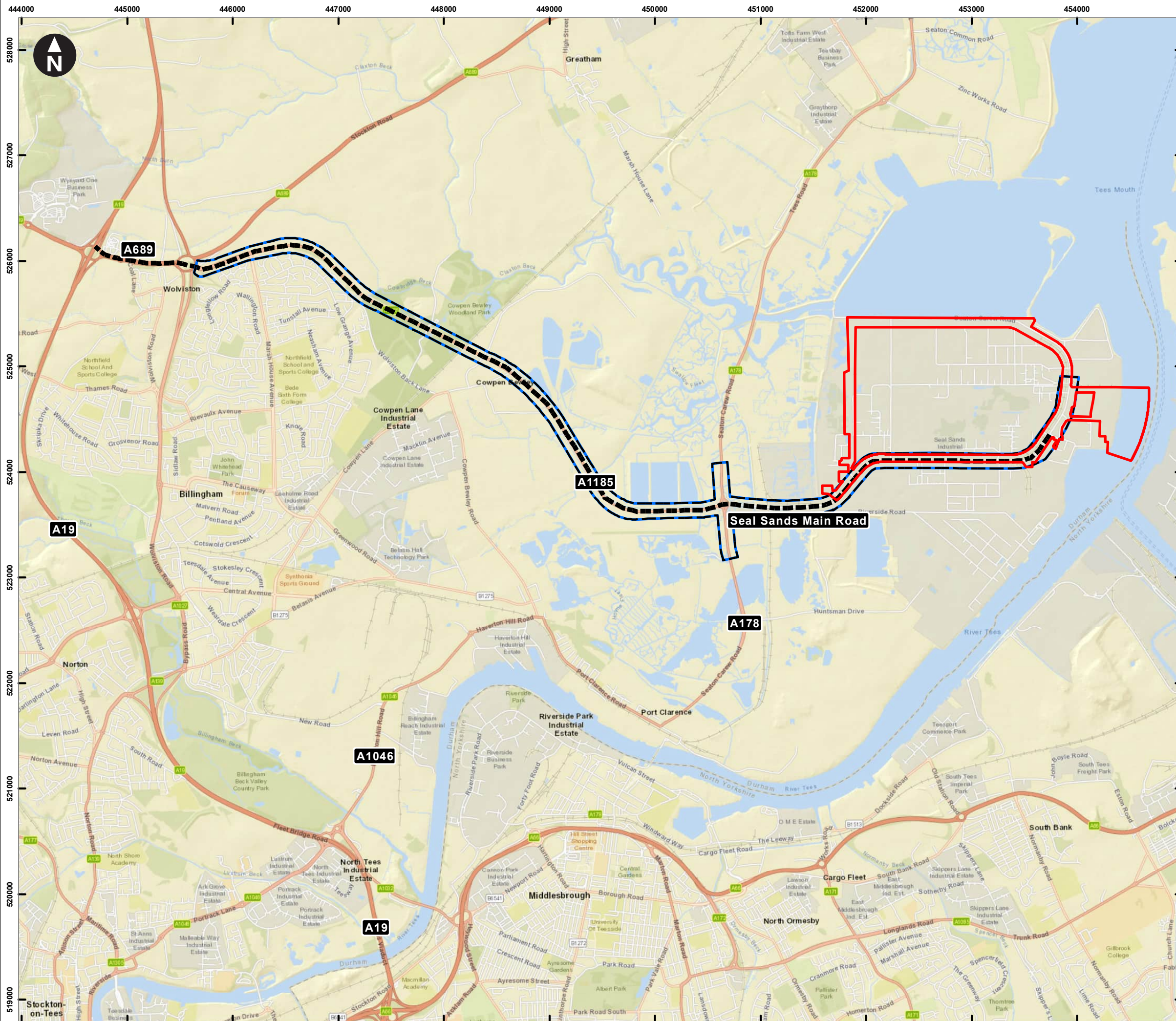
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCAn, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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Figure 13.1
Transport Study Area

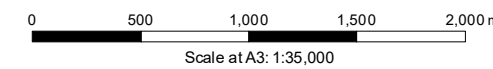
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Key

- Site boundary
- Transport study area
- Preferred construction HGV route



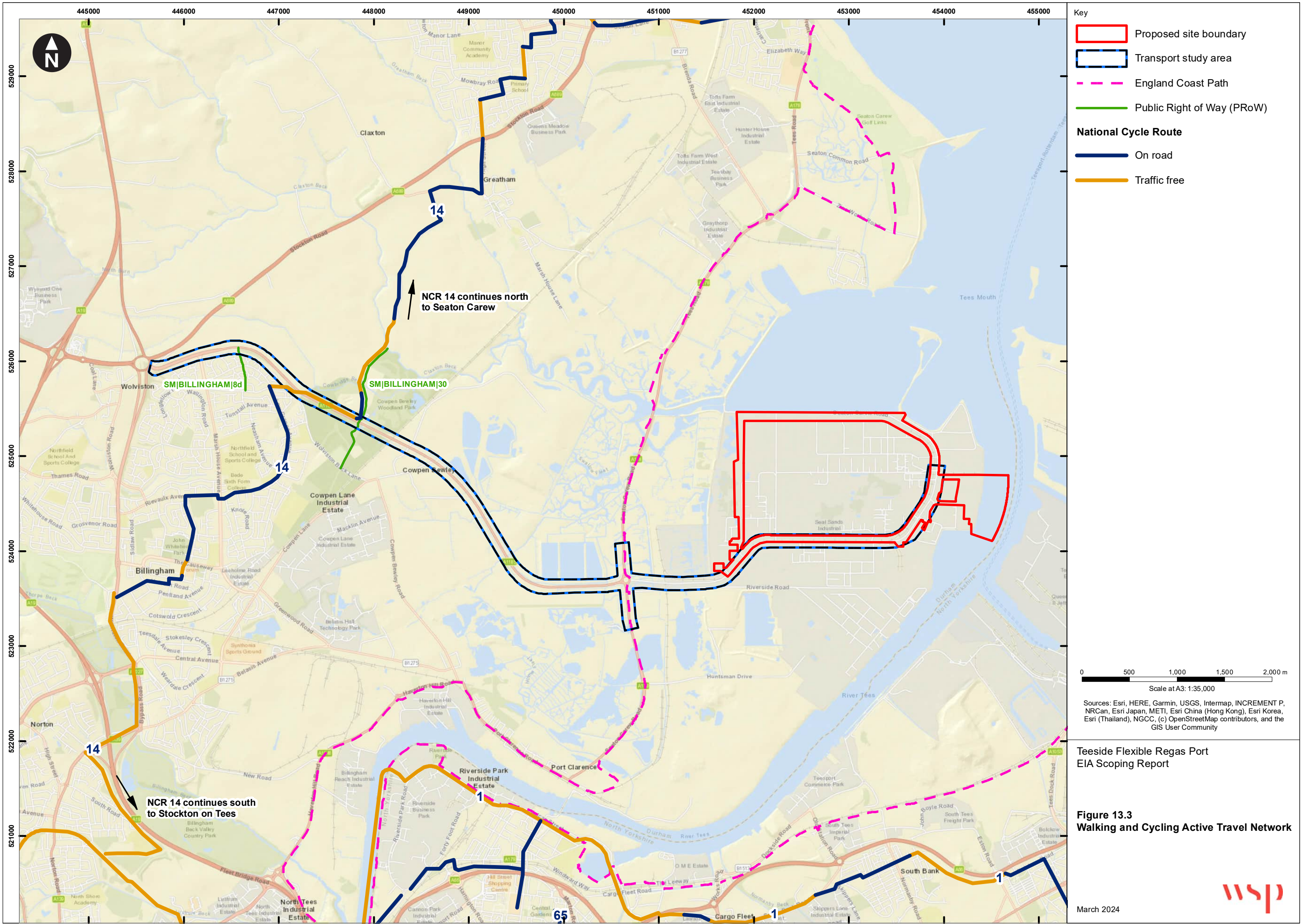
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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**Figure 13.2
Construction HGV Routes**

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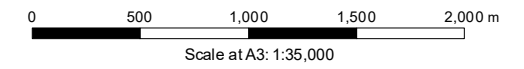


Key

- Proposed site boundary
- Transport study area
- England Coast Path
- Public Right of Way (PRoW)

National Cycle Route

- On road
- Traffic free



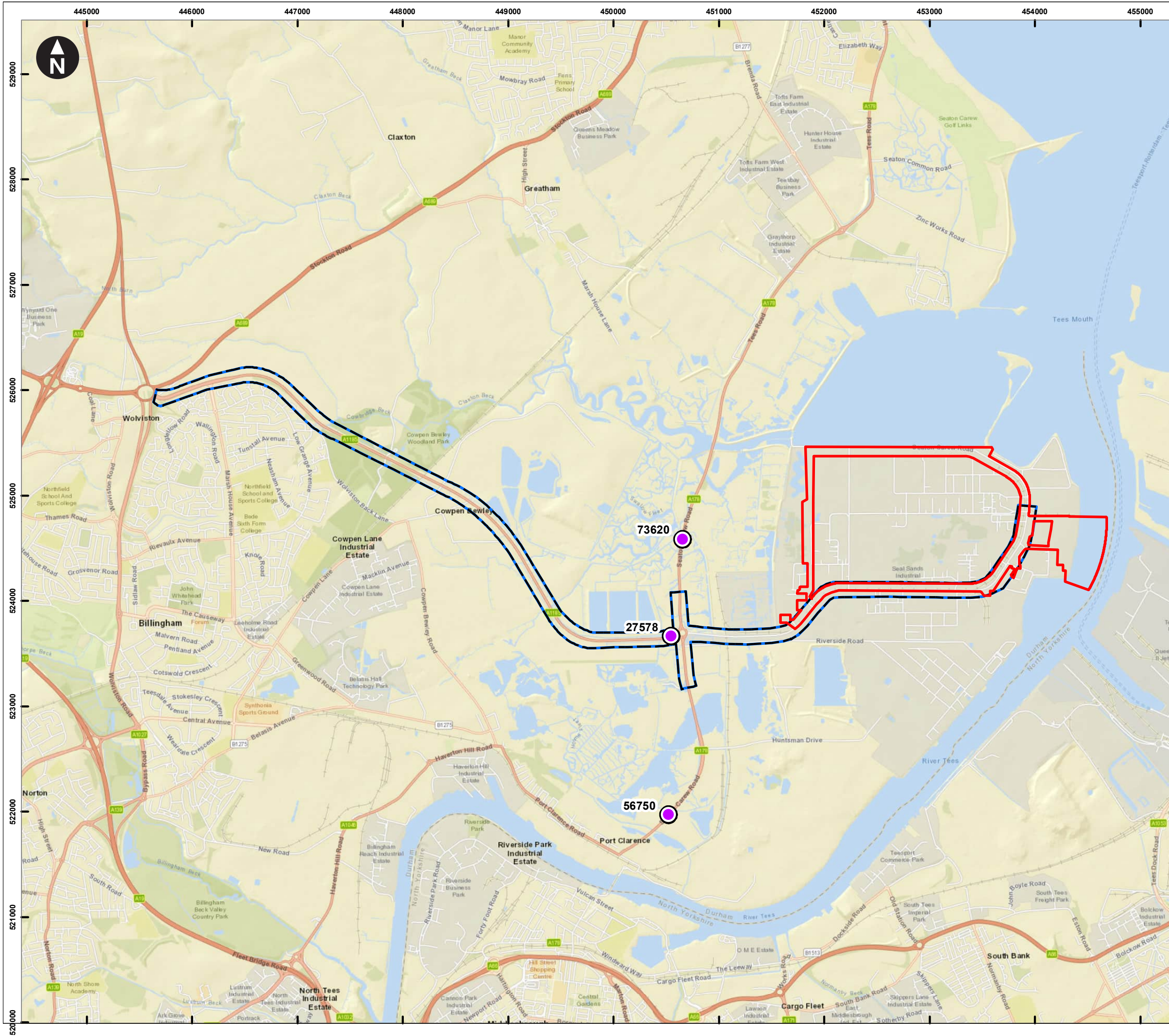
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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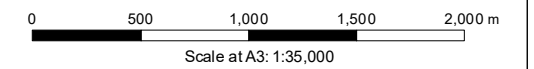
**Figure 13.3
Walking and Cycling Active Travel Network**

March 2024





- Key
- Proposed site boundary
 - Transport study area
 - Transport traffic counter location



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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**Figure 13.4
Department for Transport
Traffic Count Locations**

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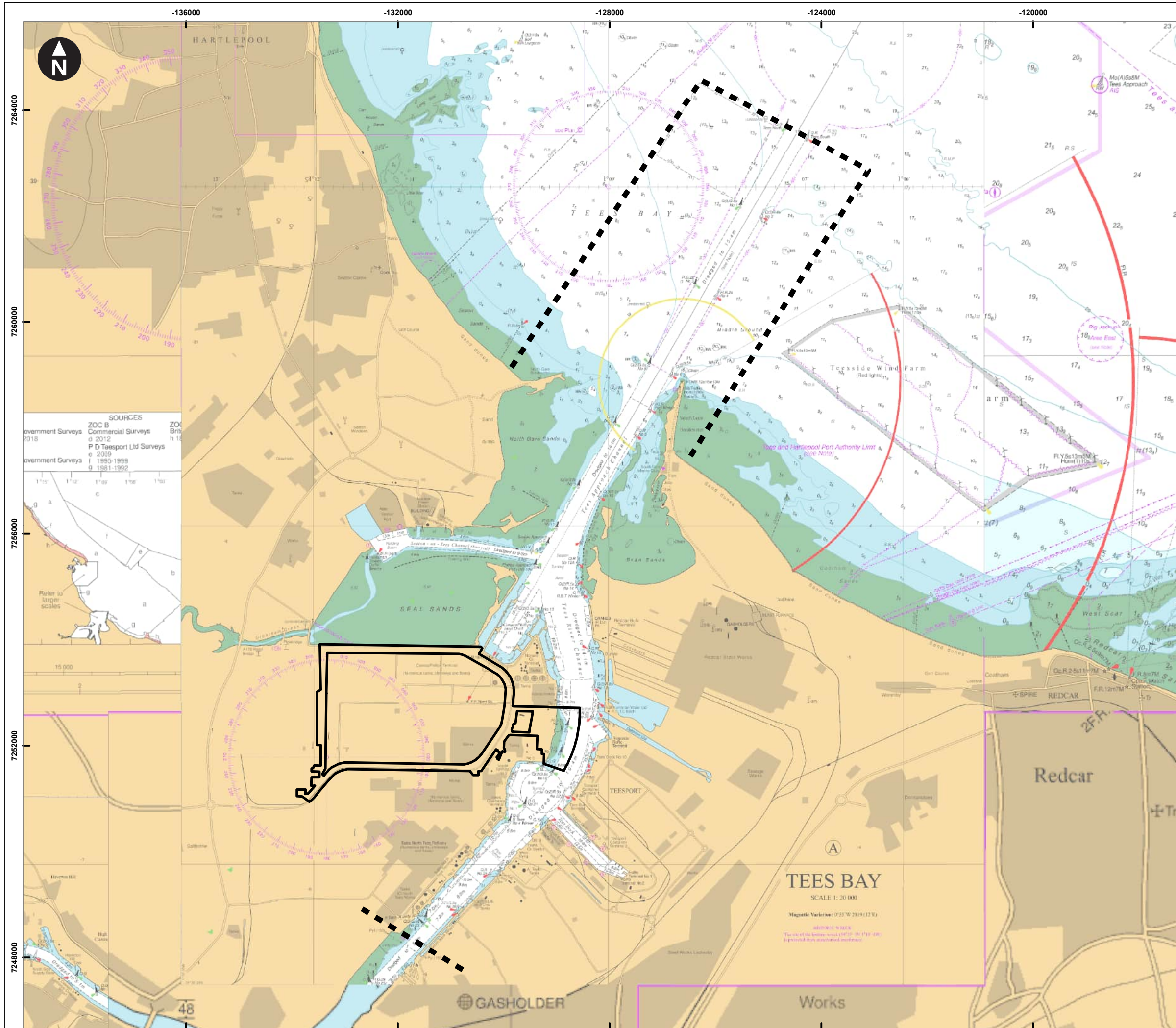
CHAPTER 15 SHIPPING AND NAVIGATION

FIGURE 15.1 SHIPPING AND NAVIGATION STUDY AREA

FIGURE 15.2 AIS DATA BY VESSEL TYPE (JULY 2023)

FIGURE 15.3 AIS DATA BY VESSEL LENGTH (JULY 2023)

FIGURE 15.4 AIS DENSITY (JULY 2023)



Key
 [Solid black line] Proposed site boundary
 [Dashed black line] Study area limits

SOURCES
 ZOC B
 Commercial Surveys
 of 2012
 P D Teesport Ltd Surveys
 of 2009
 of 1995-1999
 of 1981-1992

0 1,000 2,000 3,000 4,000 m

Scale at A3: 1:70,000
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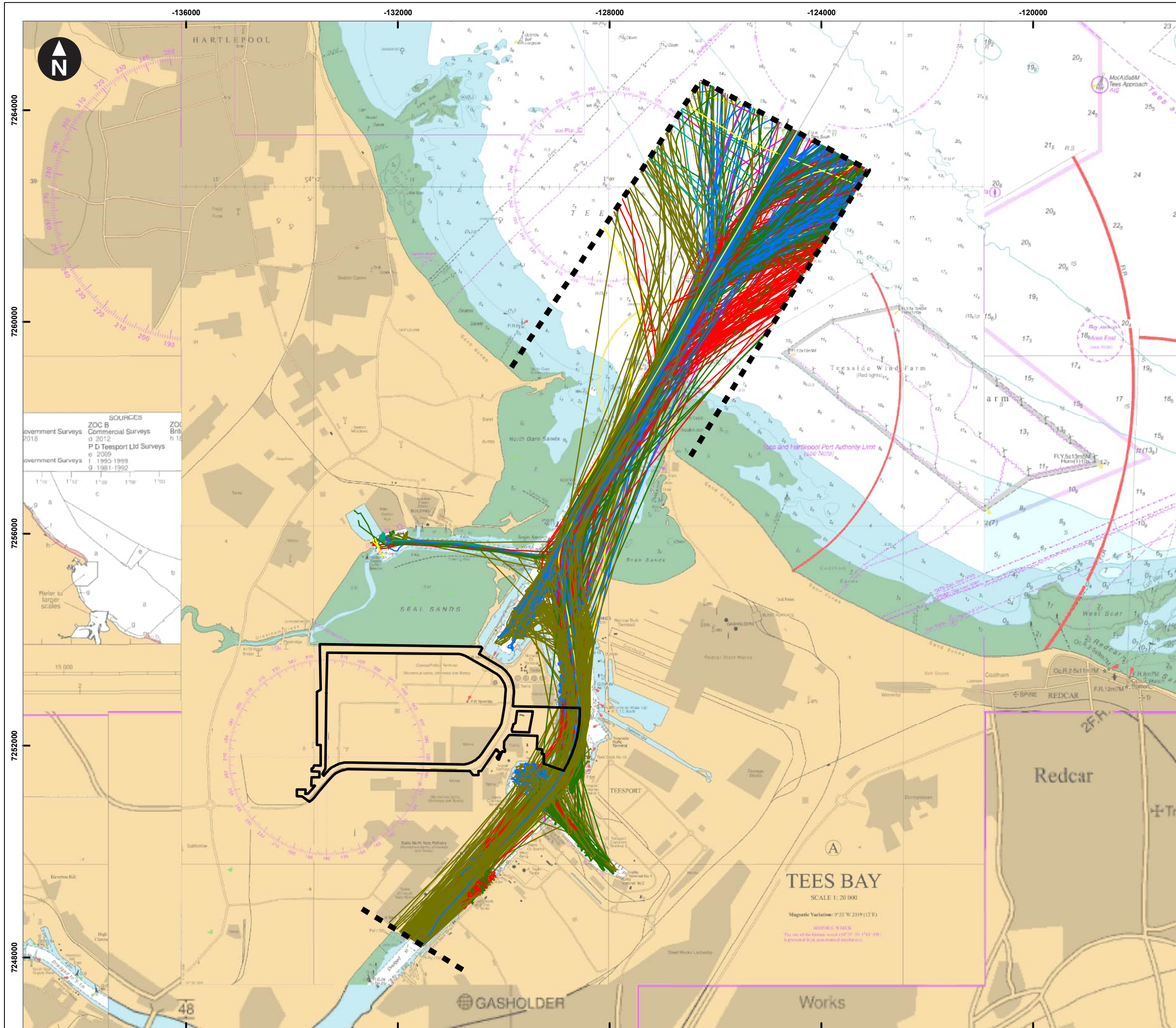
TEES BAY
 SCALE 1: 20 000
 Magnetic Variation: 0°55' W 2019 (12°)

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Figure 15.1
 Shipping and Navigation study area



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Key

- Proposed site boundary
- Study area limits

Vessel Type

- Dredger/underwater ops
- Tug
- Cargo
- Tanker
- Other
- Offshore support
- Pilot

0 1,000 2,000 3,000 4,000 m

Scale at A3: 1:70,000

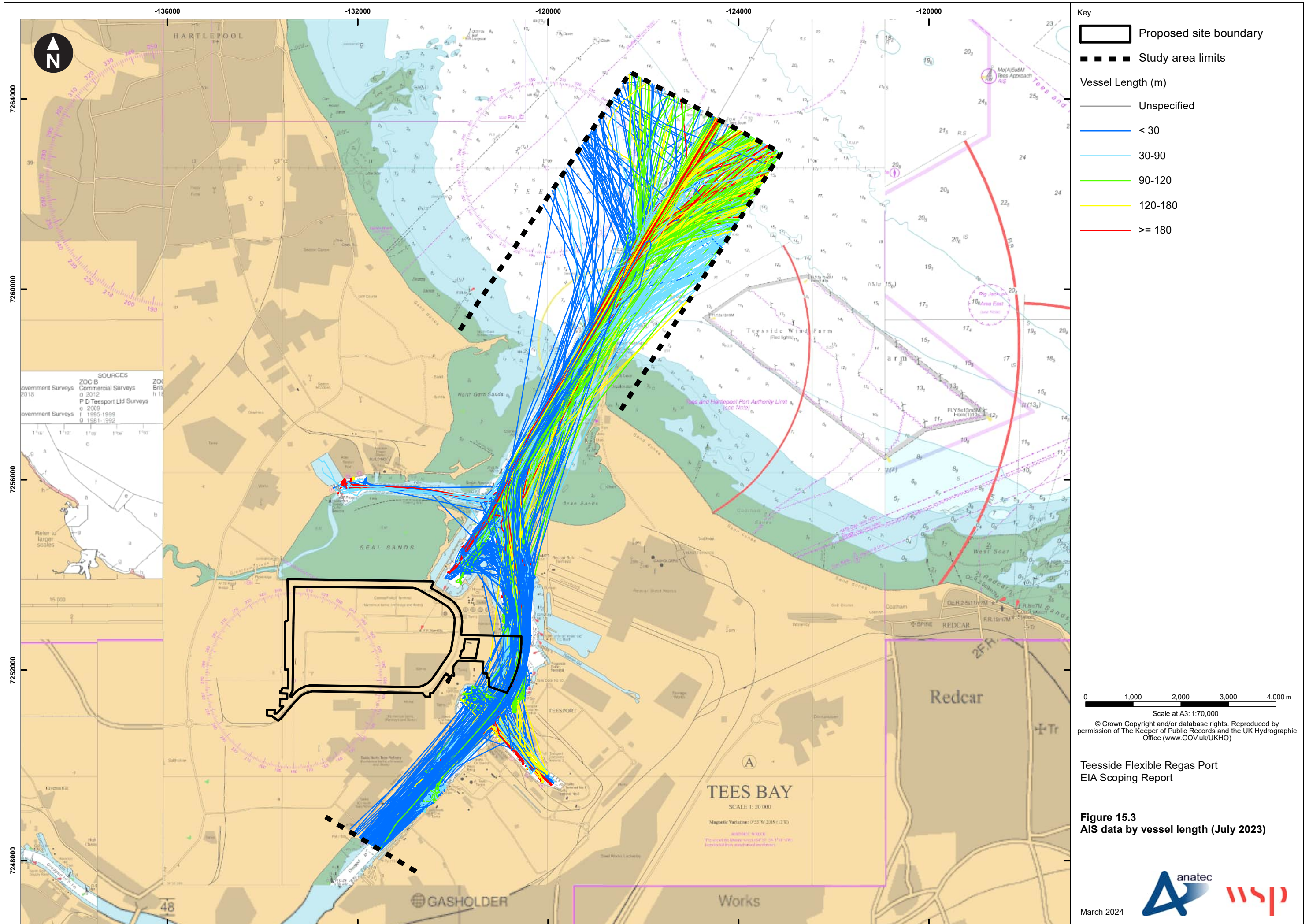
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Figure 15.2
AIS data by vessel type (July 2023)

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Key

- Proposed site boundary
- Study area limits

Vessel Length (m)

- Unspecified
- < 30
- 30-90
- 90-120
- 120-180
- >= 180

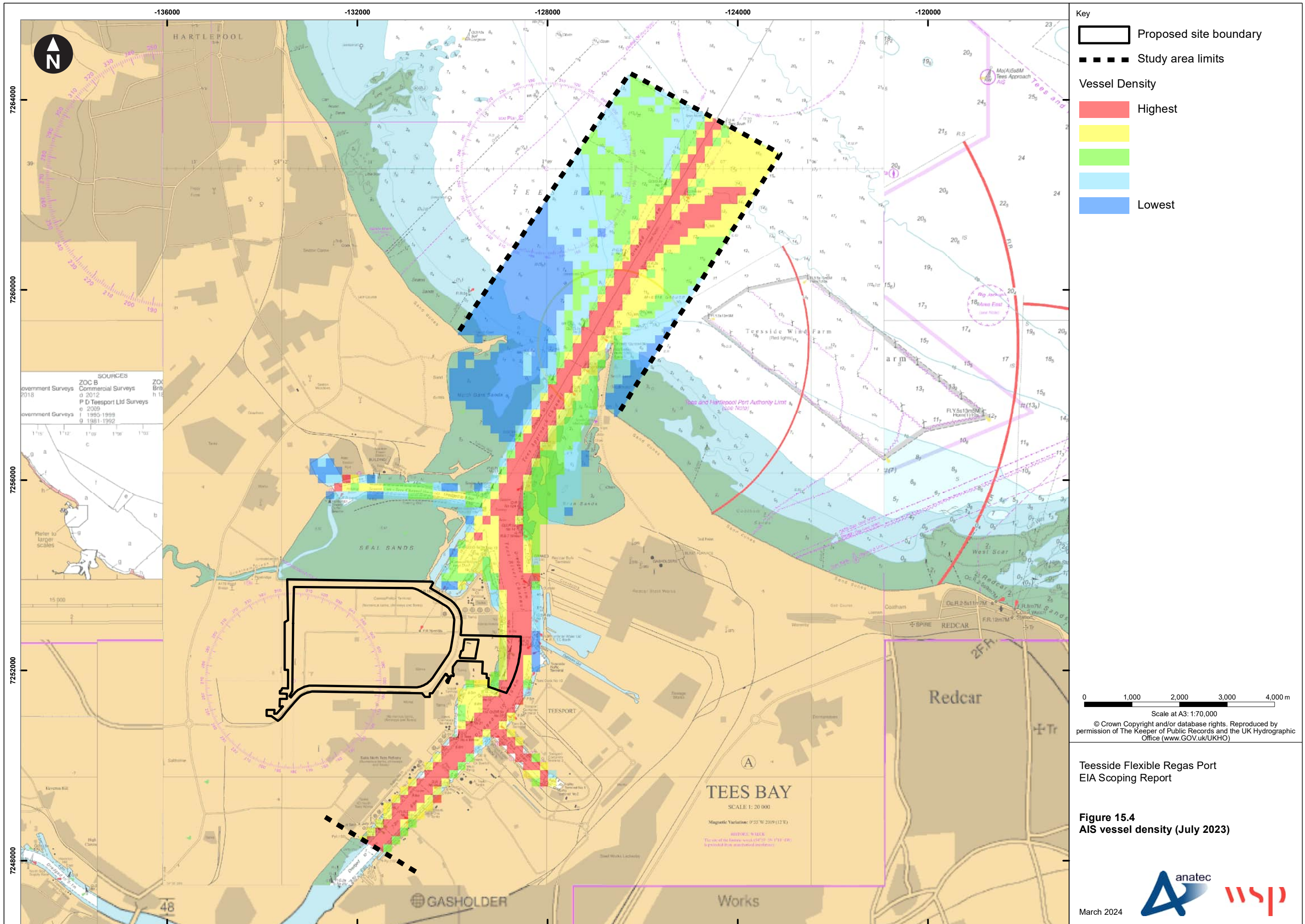
0 1,000 2,000 3,000 4,000 m

Scale at A3: 1:70,000

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Figure 15.3
AIS data by vessel length (July 2023)



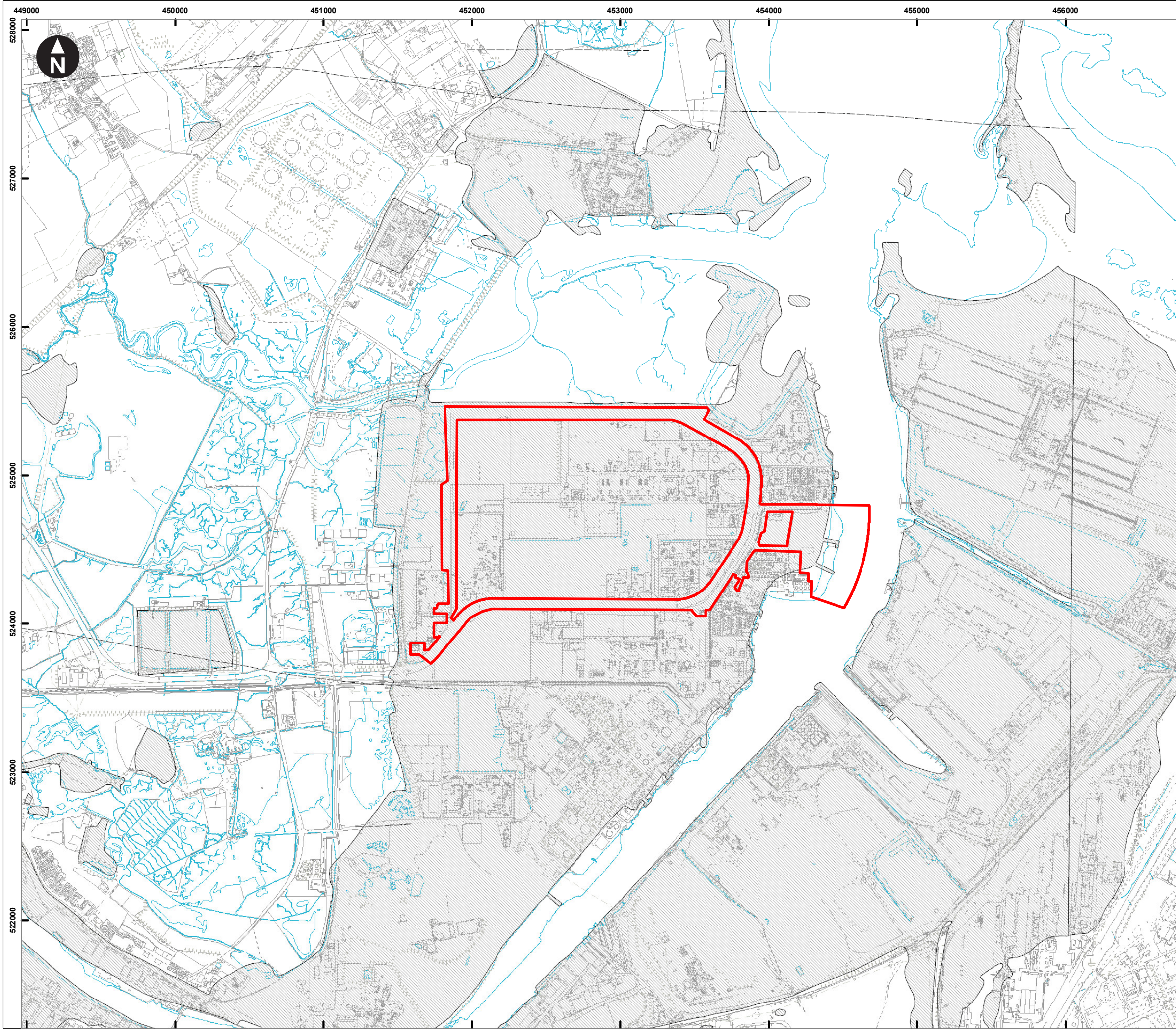


CHAPTER 18 GEOLOGY AND SOILS

FIGURE 18.1 ARTIFICIAL GROUND

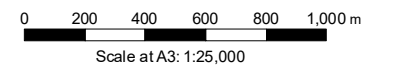
FIGURE 18.2 SUPERFICIAL DEPOSITS

FIGURE 18.3 BEDROCK GEOLOGY



Key

- Proposed site boundary
- Fault
- Made Ground (Undivided)



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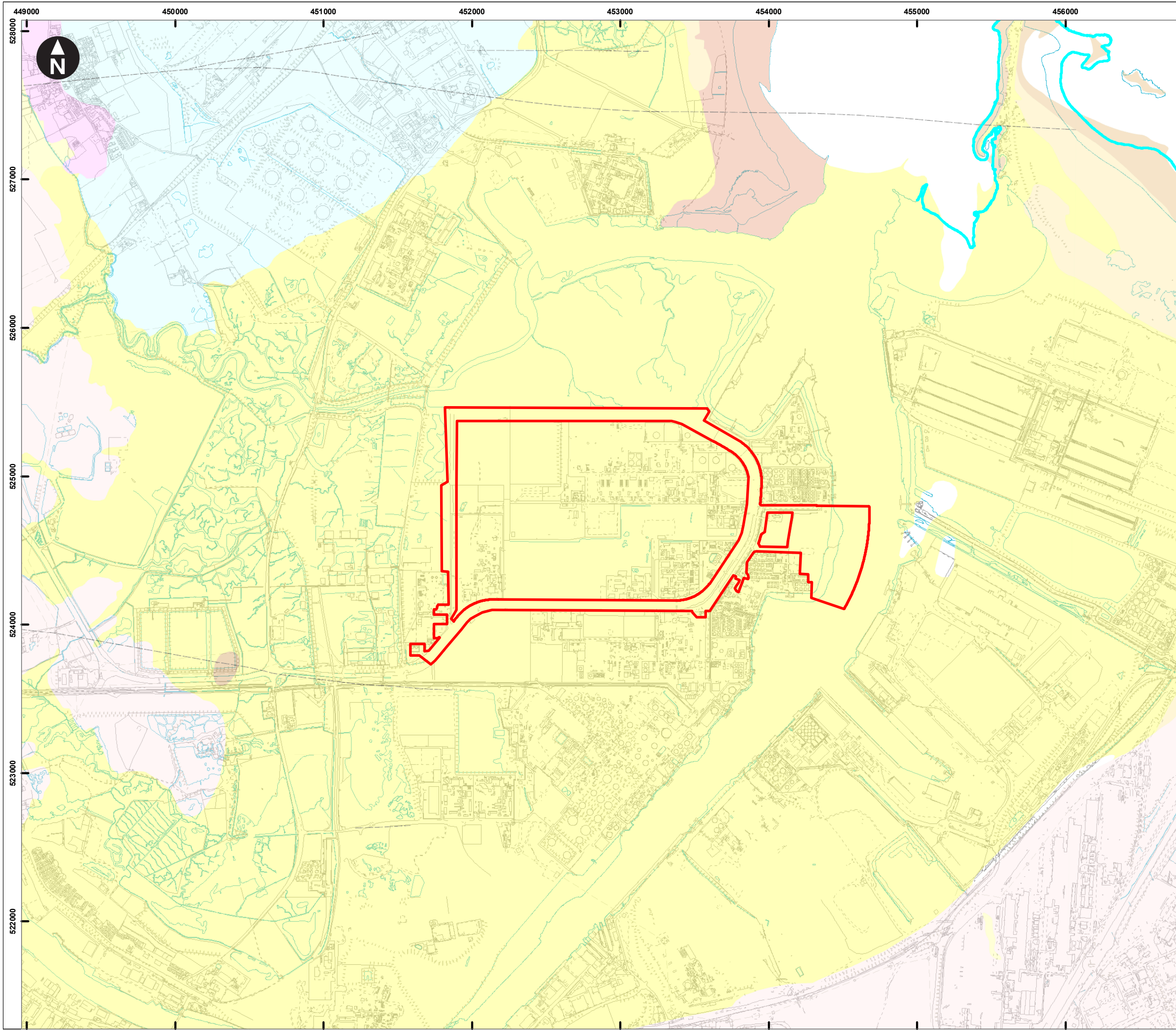
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Figure 18.1
Artificial ground

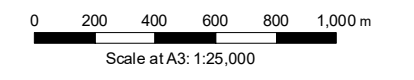
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Key

- Proposed site boundary
- Fault
- Glaciofluvial Deposits, Devensian - Sand and Gravel
- Till, Devensian - Diamicton
- Glaciolacustrine Deposits, Devensian - Sand
- Tidal Flat Deposits - Sand and Silt
- Beach and Tidal Flat Deposits (undifferentiated) - Sand
- Peat
- Lacustrine Deposits - Clay and Silt



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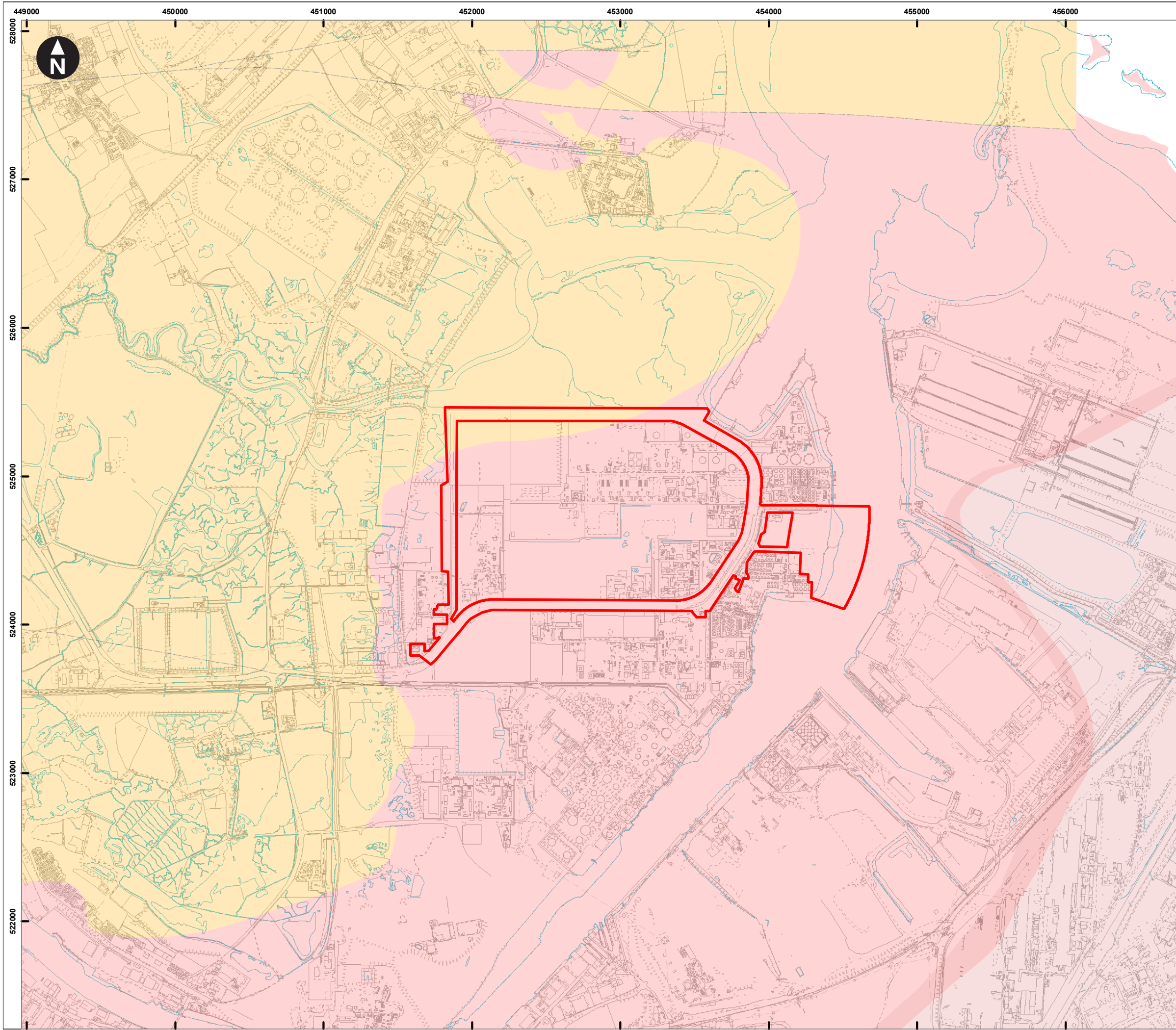
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**Figure 18.2
Superficial Deposits**

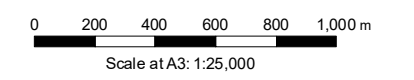
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Key

- Proposed site boundary
- Fault
- Sherwood Sandstone Group - Sandstone
- Mercia Mudstone Group - Mudstone
- Penarth Group - Mudstone
- Redcar Mudstone Formation - Mudstone



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**Figure 18.3
Bedrock Geology**

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