

Net Zero Teesside Project

Planning Inspectorate Reference: EN010103

Land at and in the vicinity of the former Redcar Steel Works site, Redcar and in Stockton-on-Tees, Teesside

The Net Zero Teesside Order

Document Reference: 6.7b DCO Environmental Statement Addendum Volume II - Figures

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (as amended)

The Infrastructure Planning (Applications: Prescribed Forms and Procedure Regulations 2009 – Regulation 5(2)(a)



Applicants: Net Zero Teesside Power Limited (NZT Power Ltd) & Net Zero North Sea Storage Limited (NZNS Storage Ltd)

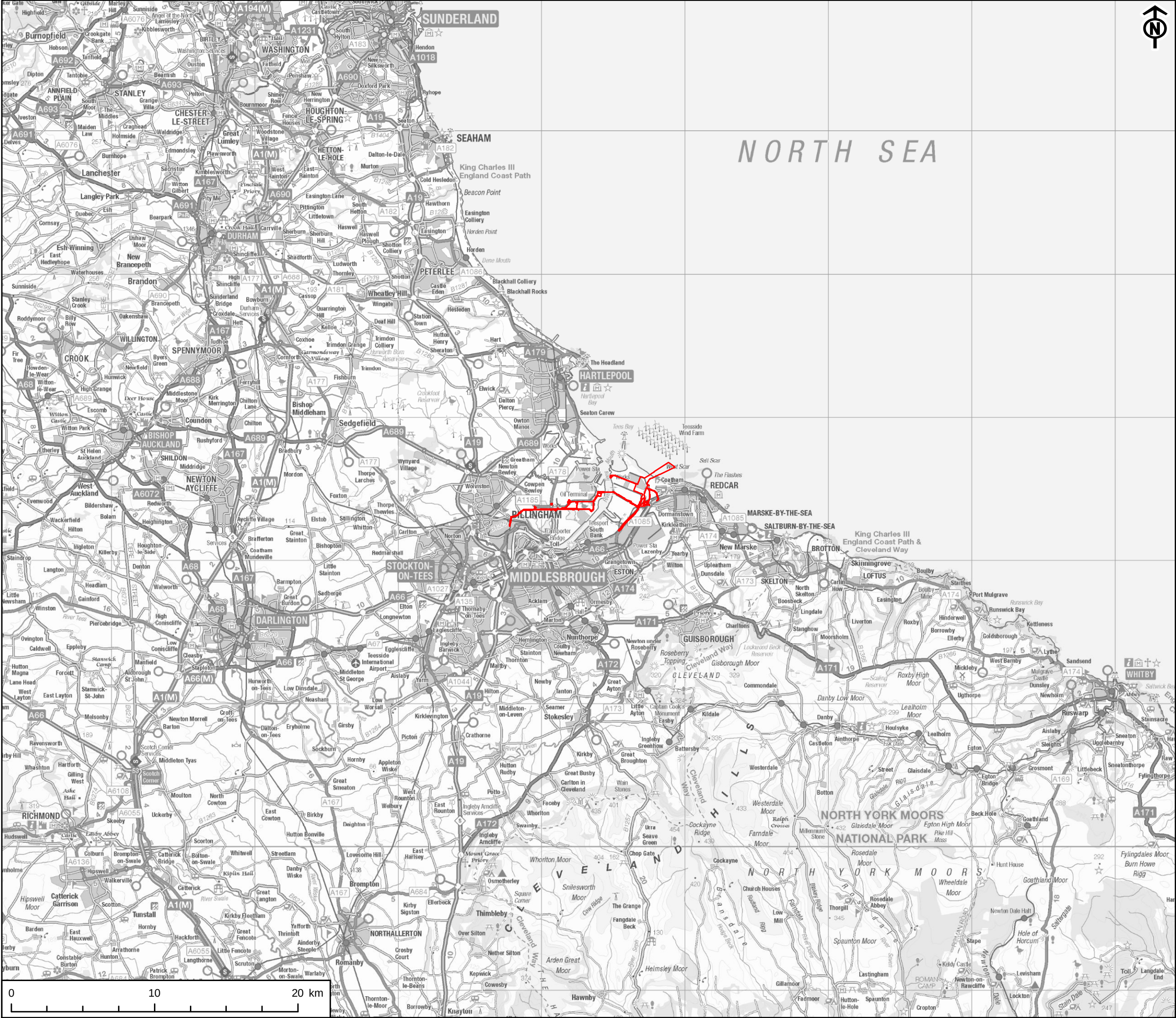
Date: March 2025

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NET ZERO TEESSIDE PROJECT



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NZN POWER LTD. AND NZNS STORAGE LTD.

KEY
 Site Boundary

TITLE
FIGURE 1-1
SITE LOCATION PLAN

REFERENCE
NZN_250121_ES_1-1_v6

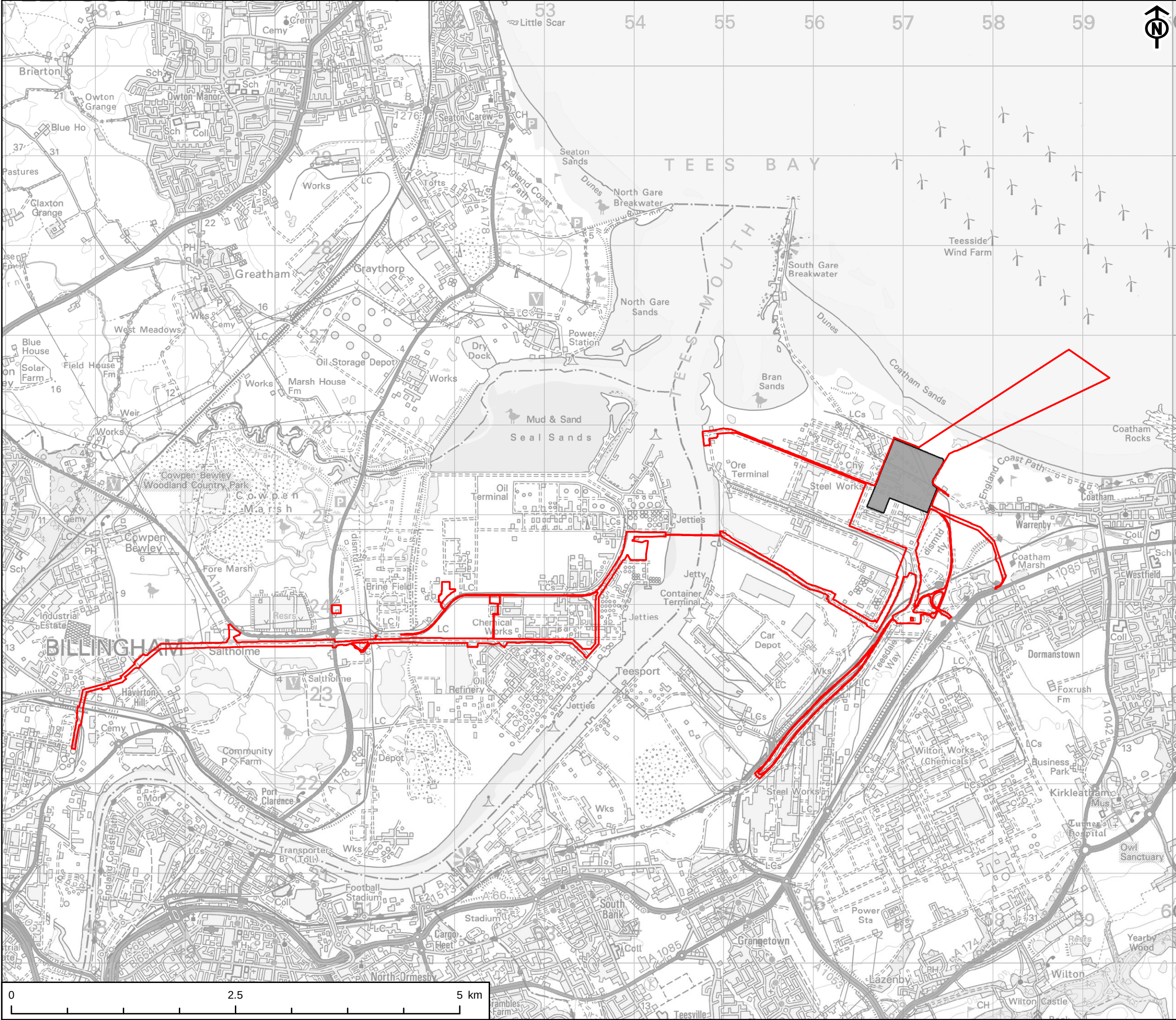
SHEET NUMBER
1 of 1

DATE
21/01/2025

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site (PCC)

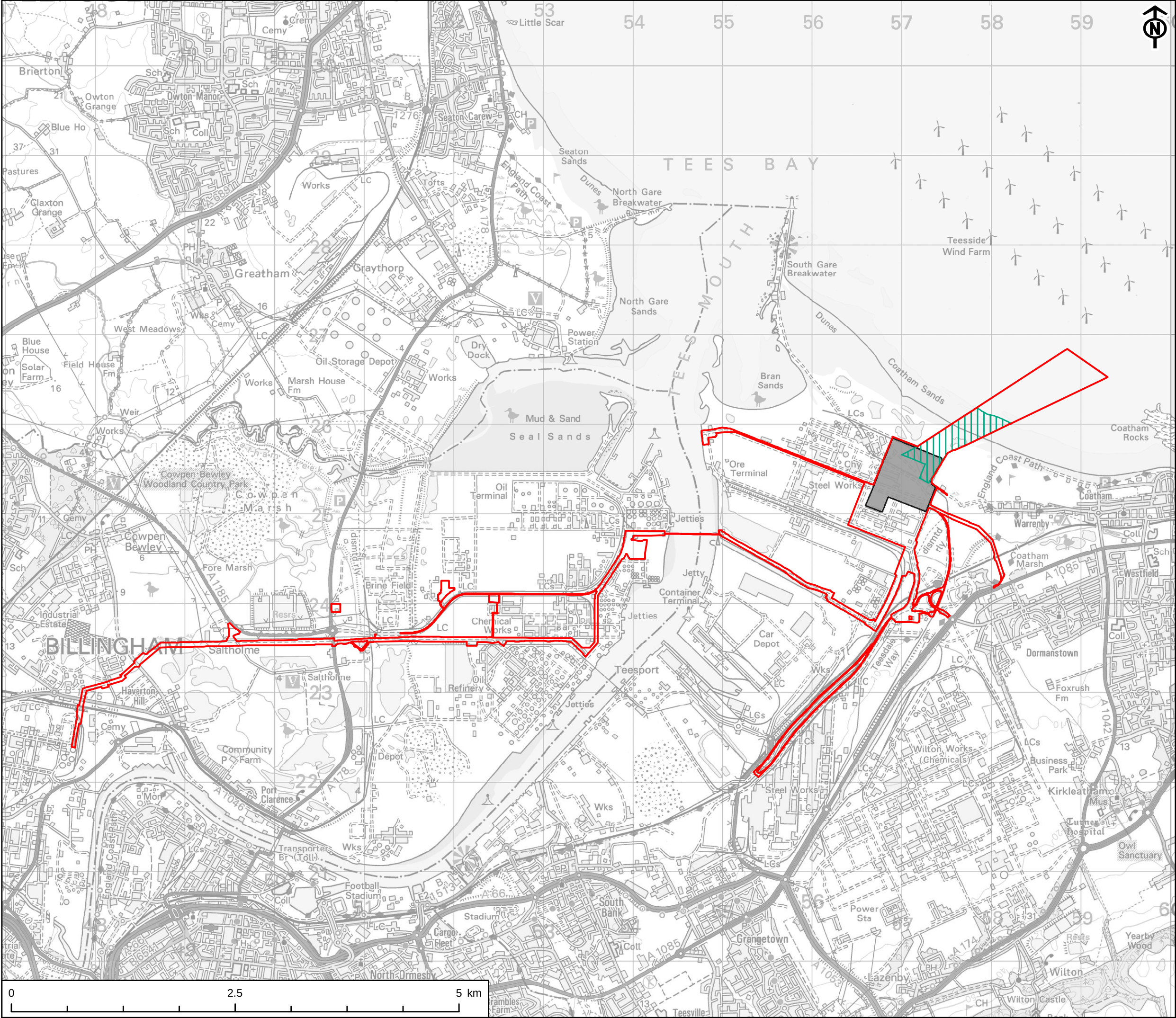
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FIGURE 3-1
SITE BOUNDARY PLAN

REFERENCE
NZN_250121_ES_3-1_v7

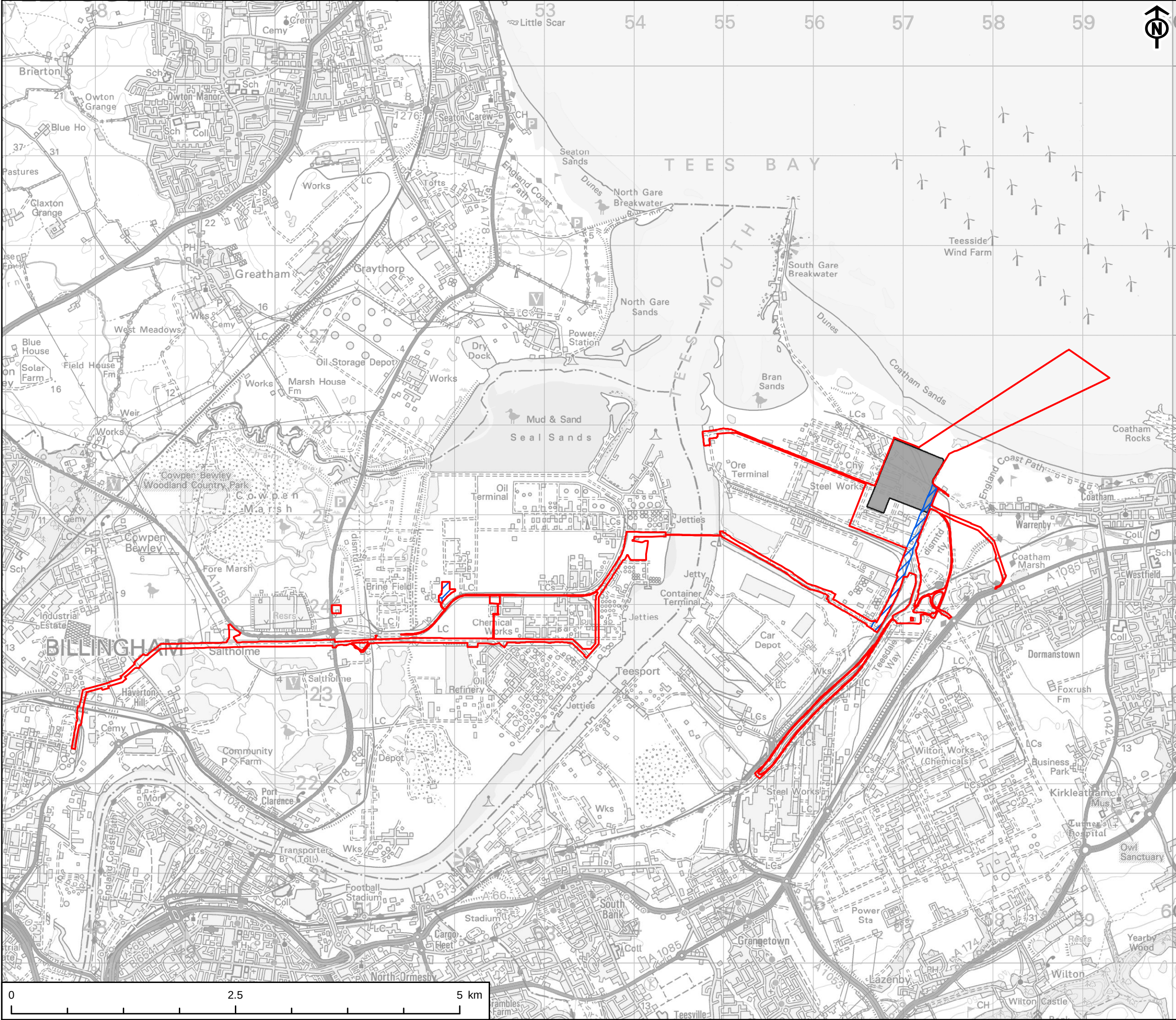
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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - CO₂ Export Pipeline

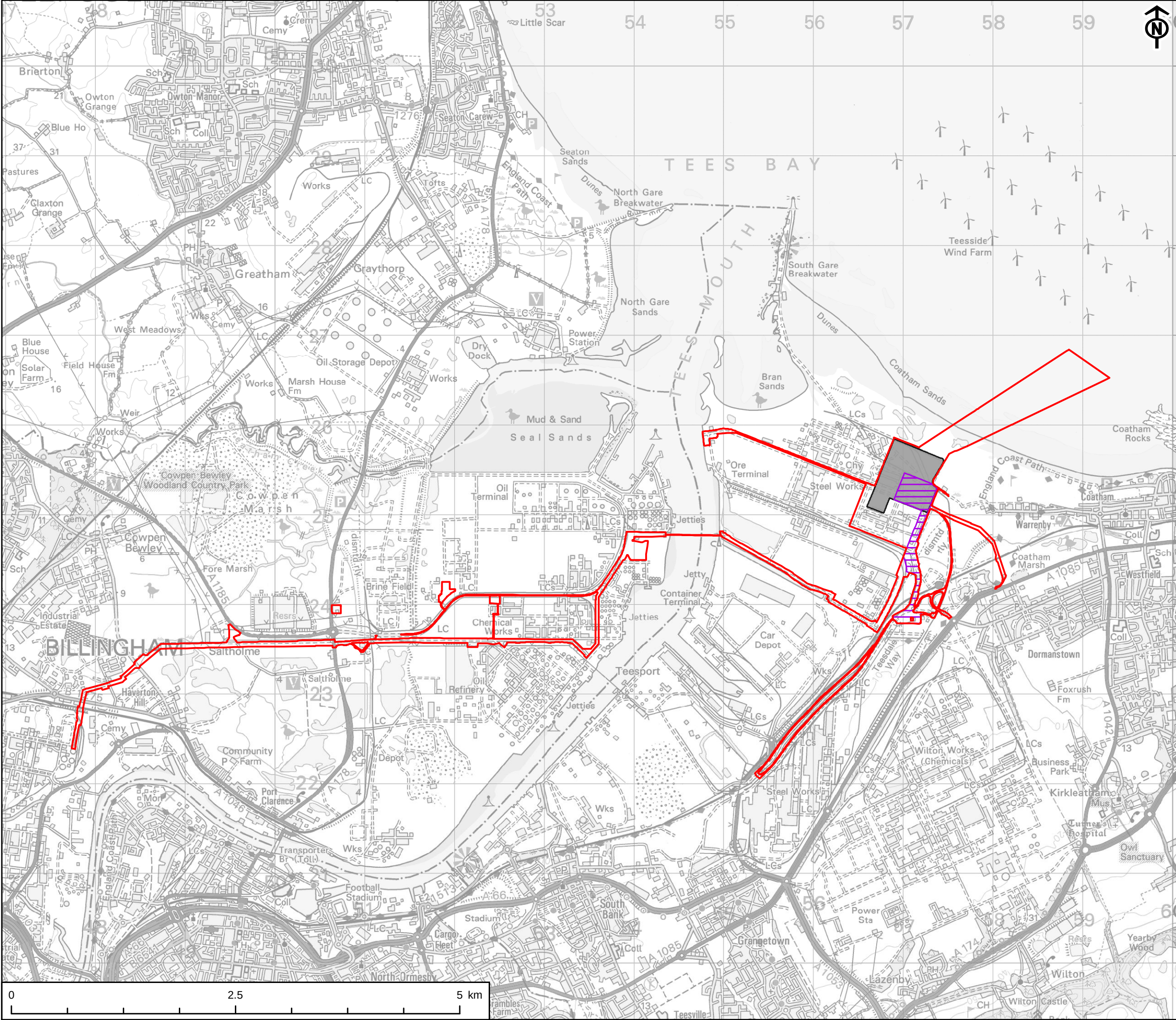


- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Natural Gas Connection Corridor

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Electrical Connection Corridor

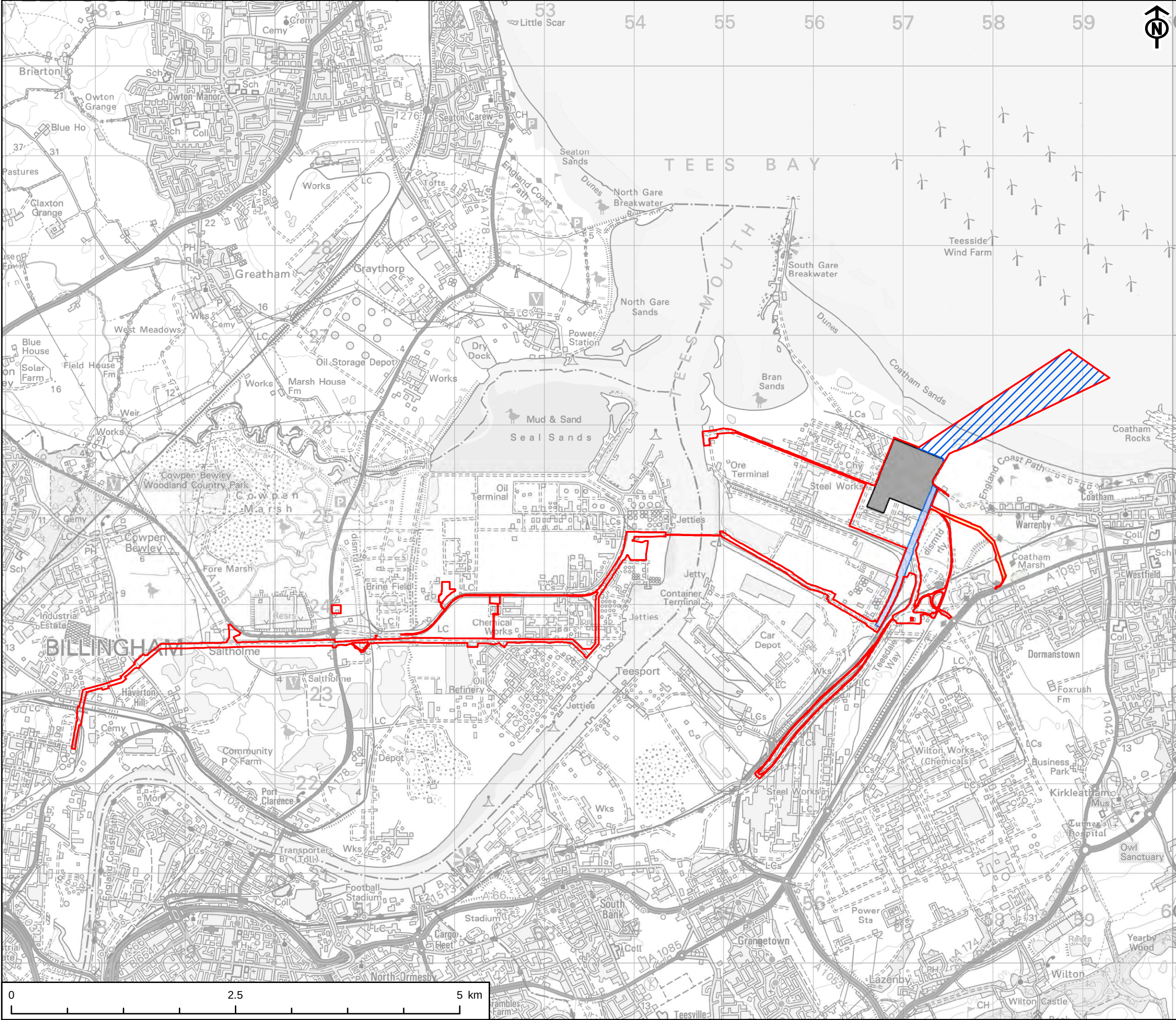
TITLE
FIGURE 3-2c
DEVELOPMENT AREAS
ELECTRICAL CONNECTION CORRIDOR

REFERENCE
NZT_250121_ES_3-2c_v9

SHEET NUMBER
3 of 5

DATE
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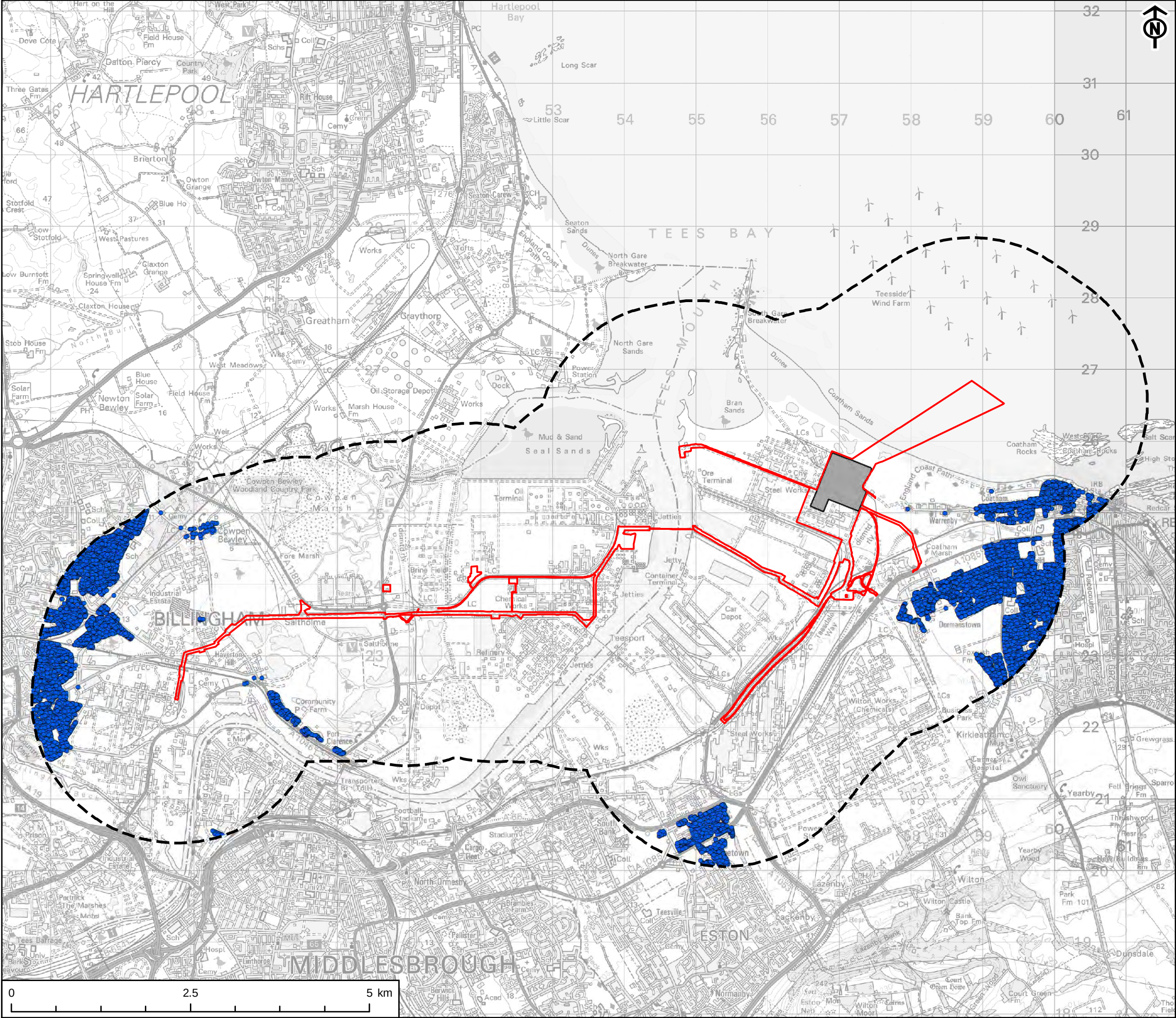
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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - Option 2 - Water Discharge Corridor - Replacement Outfall Connection
 - Water Discharge Corridor - Connection to Bran Sands
 - Water Supply Connection

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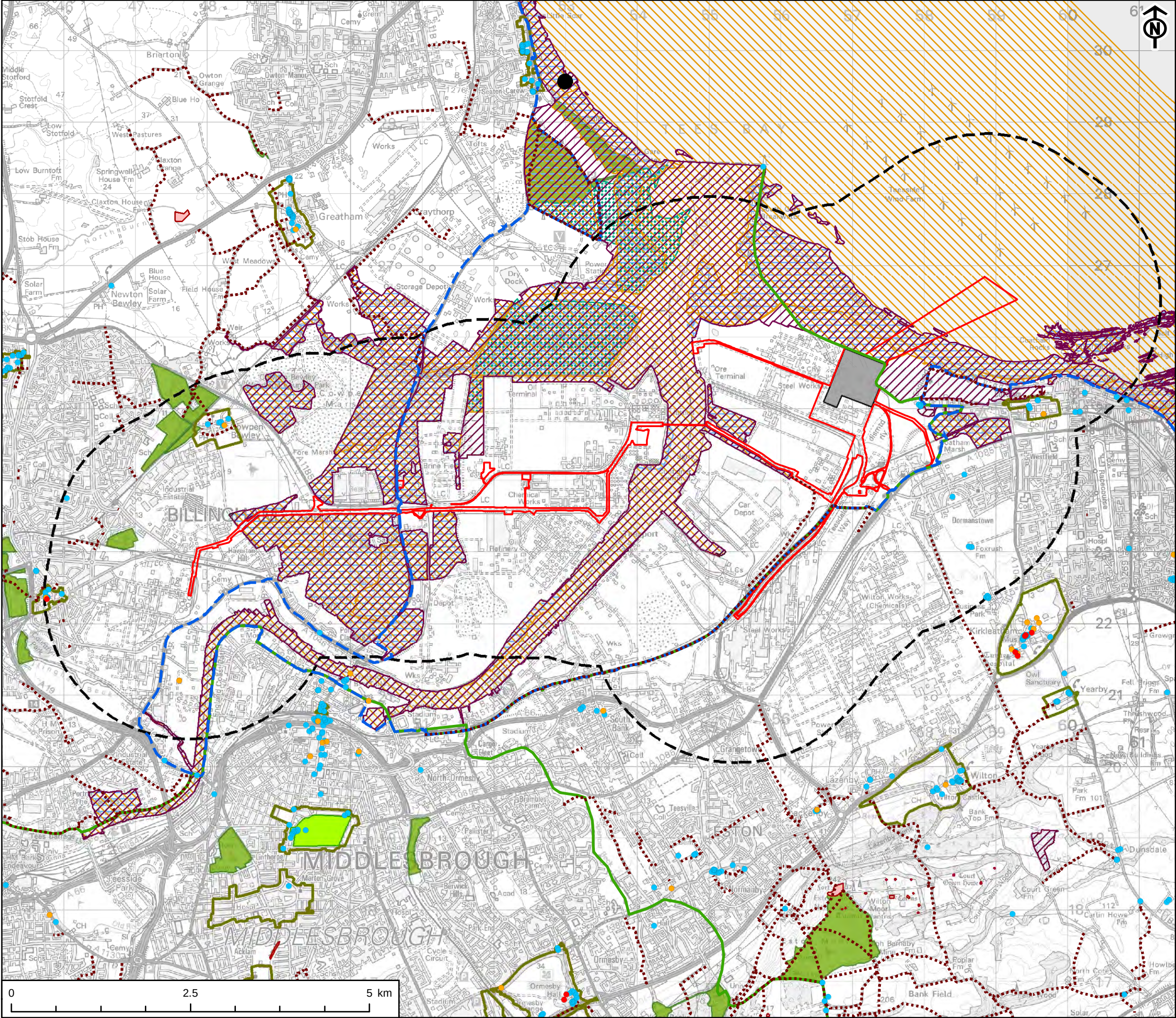
- KEY
- Site Boundary
 - Site Boundary - 2km Buffer
 - Power, Capture and Compressor Site
 - Residential Receptor

TITLE
FIGURE 3-3
RESIDENTIAL RECEPTORS WITHIN 2KM

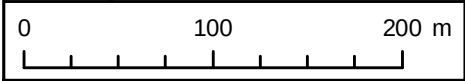
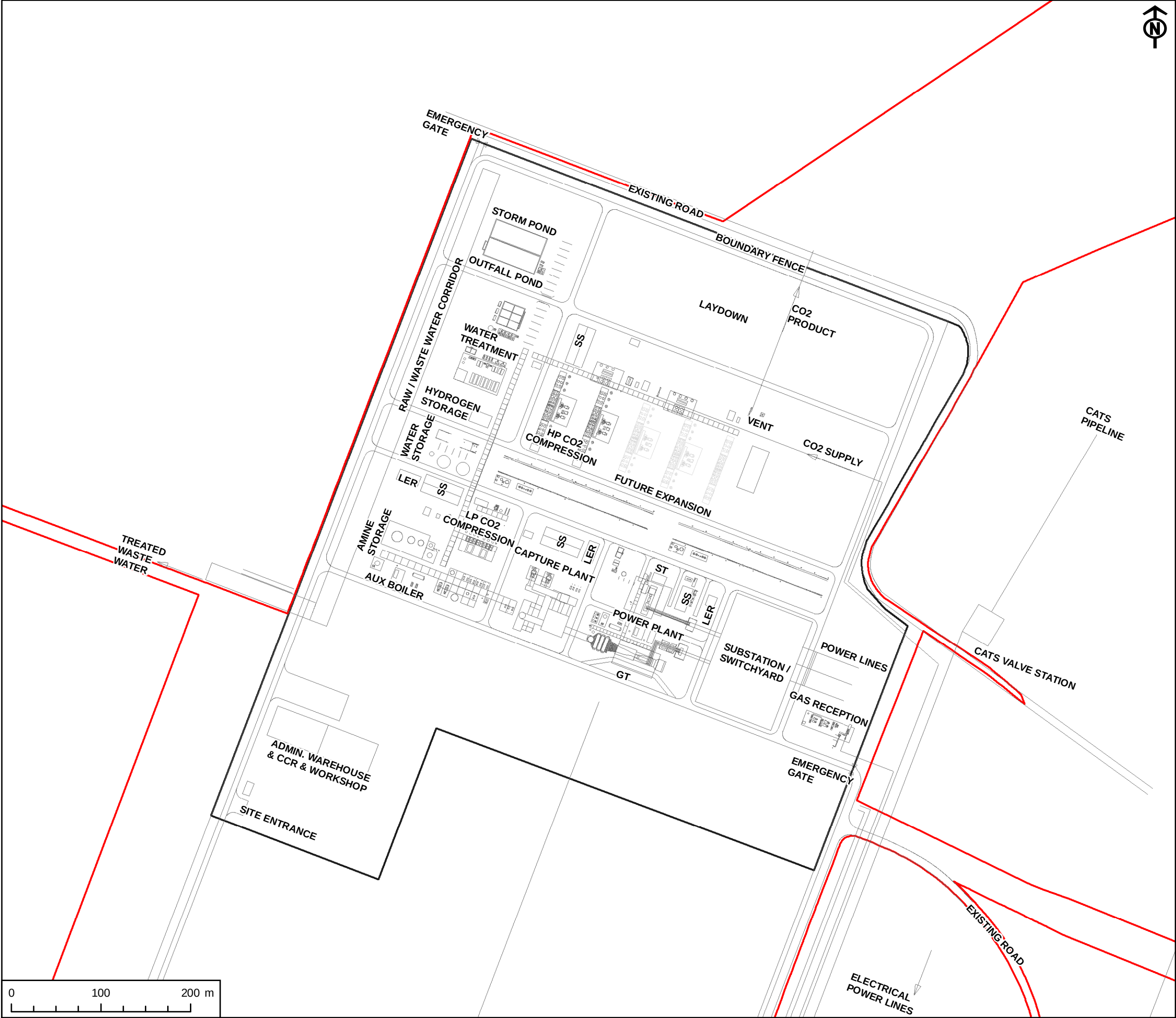
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SHEET NUMBER
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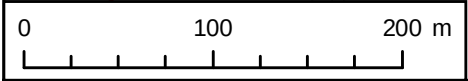
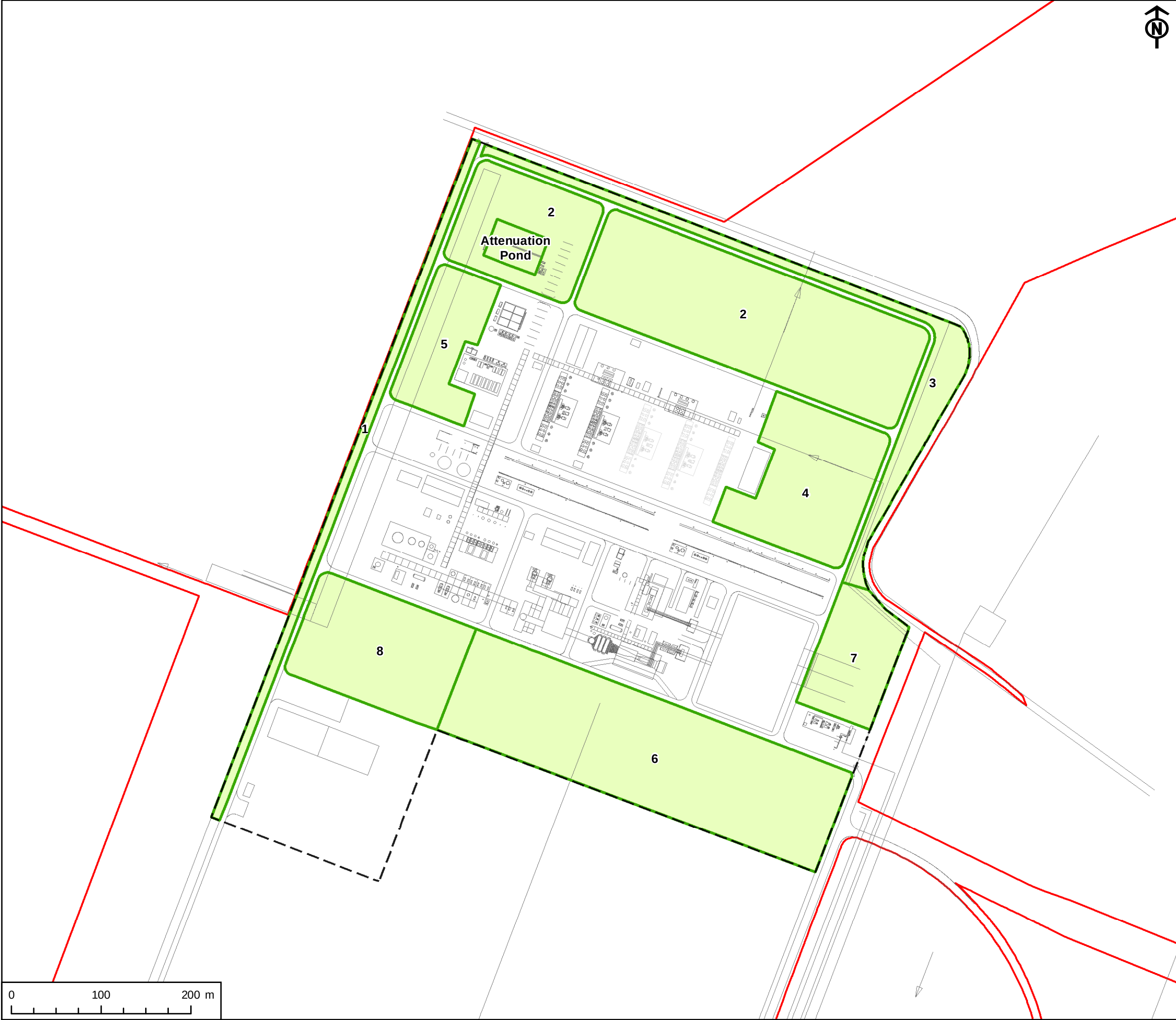


- KEY
- Site Boundary
 - Site Boundary - 2km Buffer
 - Power, Capture and Compressor Site
 - Grade I Listed Building
 - Grade II* Listed Building
 - Grade II Listed Building
 - Public Right of Way
 - England Coast Path
 - National Trail / Long Distance Route
 - Scheduled Monument
 - Registered Park and Garden
 - Protected Wreck
 - Conservation Area
 - National Nature Reserve
 - Local Nature Reserve
 - Site of Special Scientific Interest
 - Special Protection Area
 - RAMSAR



- KEY
- Site Boundary
 - Power, Capture and Compressor Site

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KEY	
	Site Boundary
	Power, Capture and Compressor Site
	Potential Biodiversity Enhancement Area

NOTE:
PCC layout shown is indicative

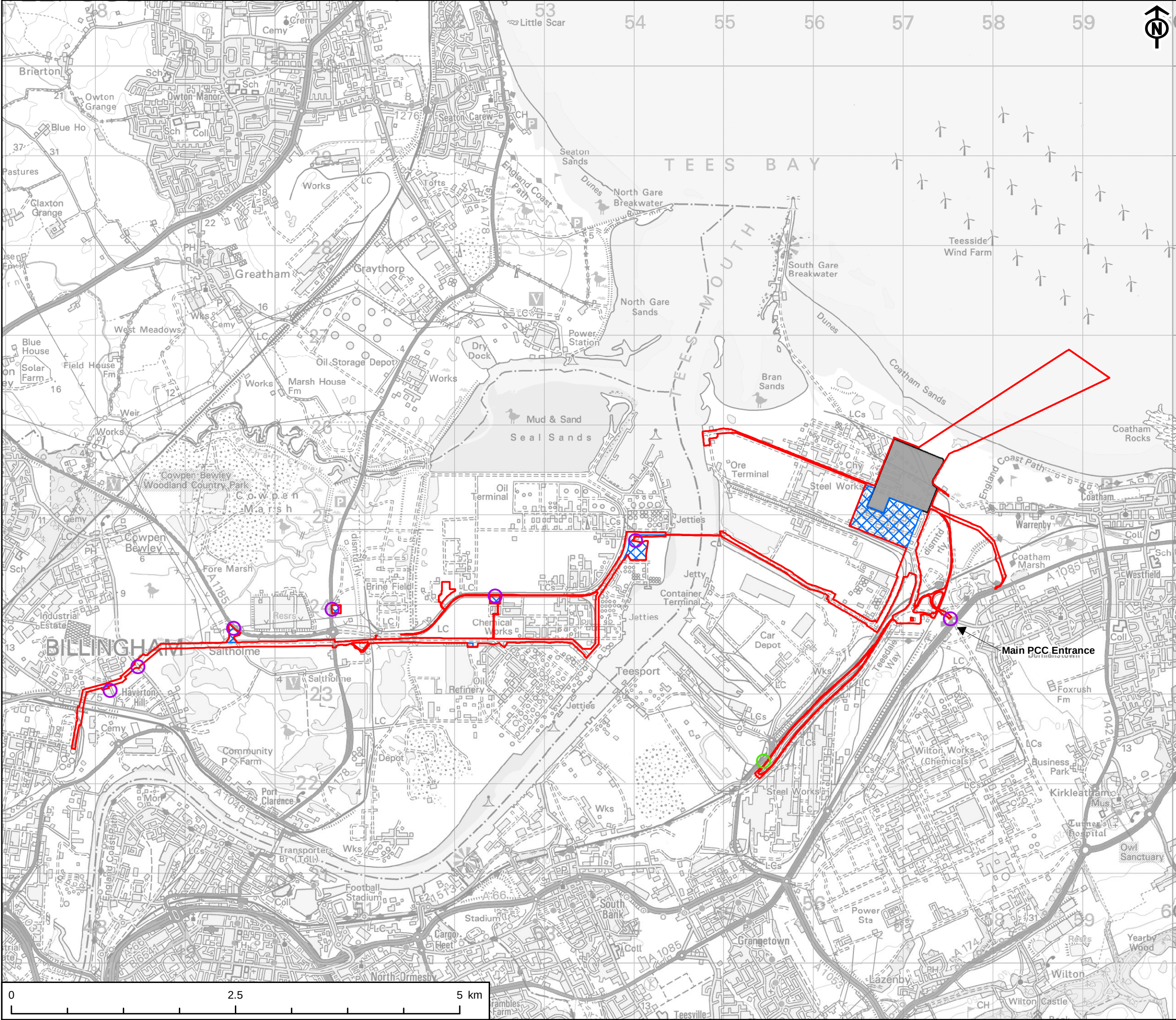
TITLE
FIGURE 4-2
LANDSCAPE AND BIODIVERSITY

REFERENCE
NZN_250121_ES_4-2_v5

SHEET NUMBER
1 of 1

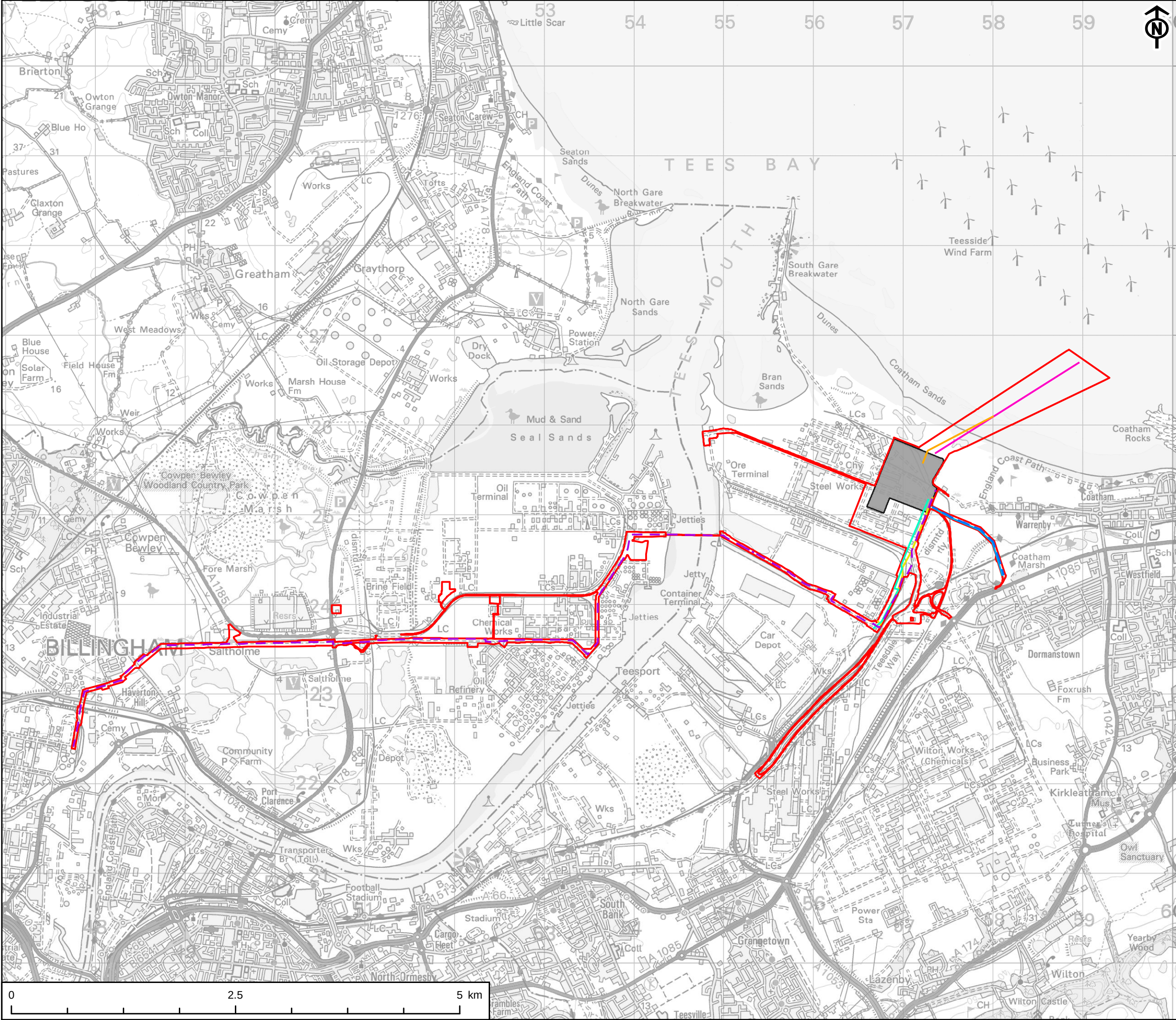
DATE
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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Construction Access
 - HGV Access Only
 - Laydown Area

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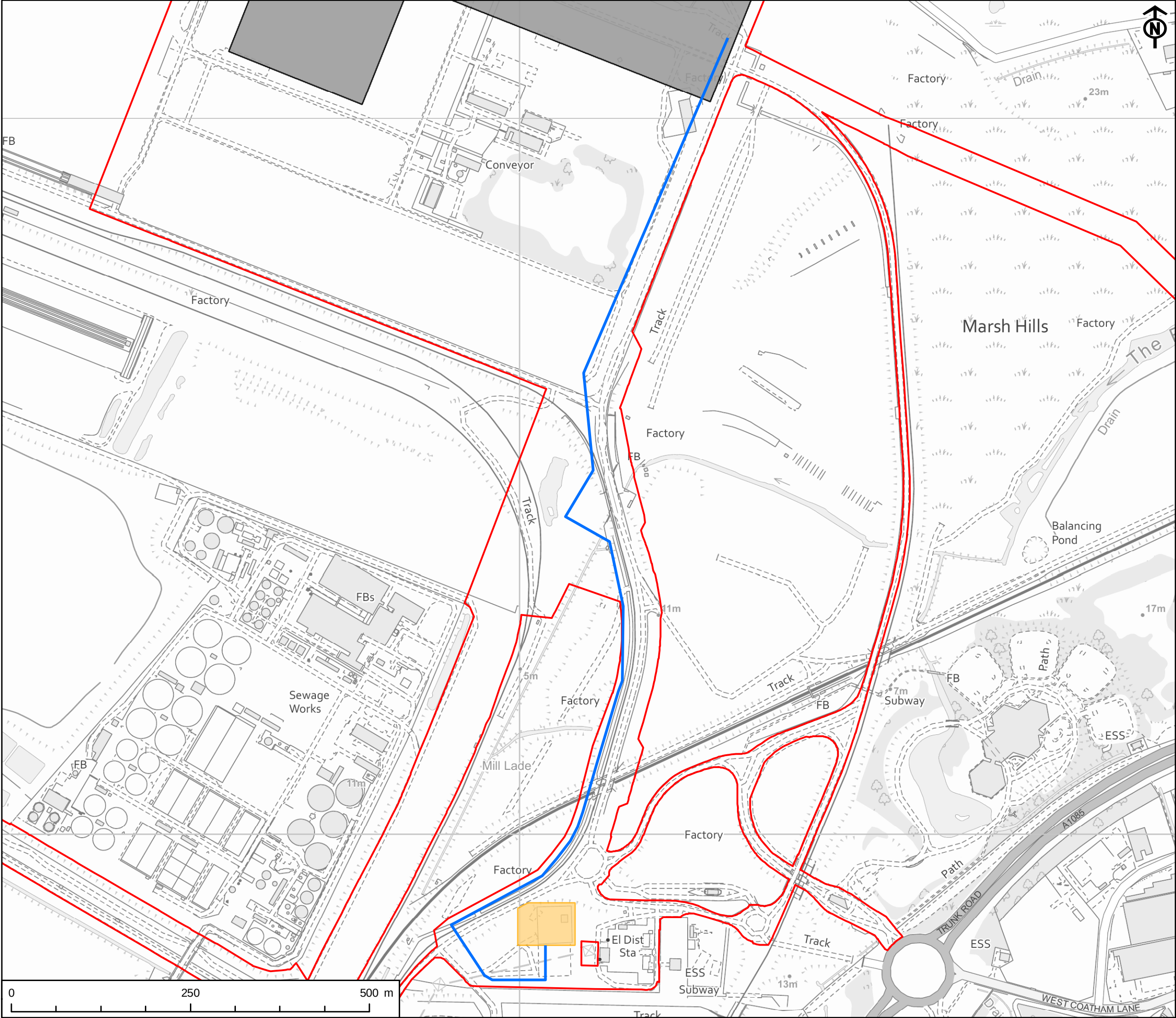


- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Indicative Gas Connection Routes
 - Indicative CO₂ Gathering Pipeline Route
 - Indicative CO₂ High Pressure Export Pipeline Routes
 - Indicative Potable Water Supply Connection Route
 - Indicative Raw Water Supply Connection Route
 - Indicative Waste Water Connection Route to Bran Sands
 - Indicative Waste Water Replacement Outfall Connection Route

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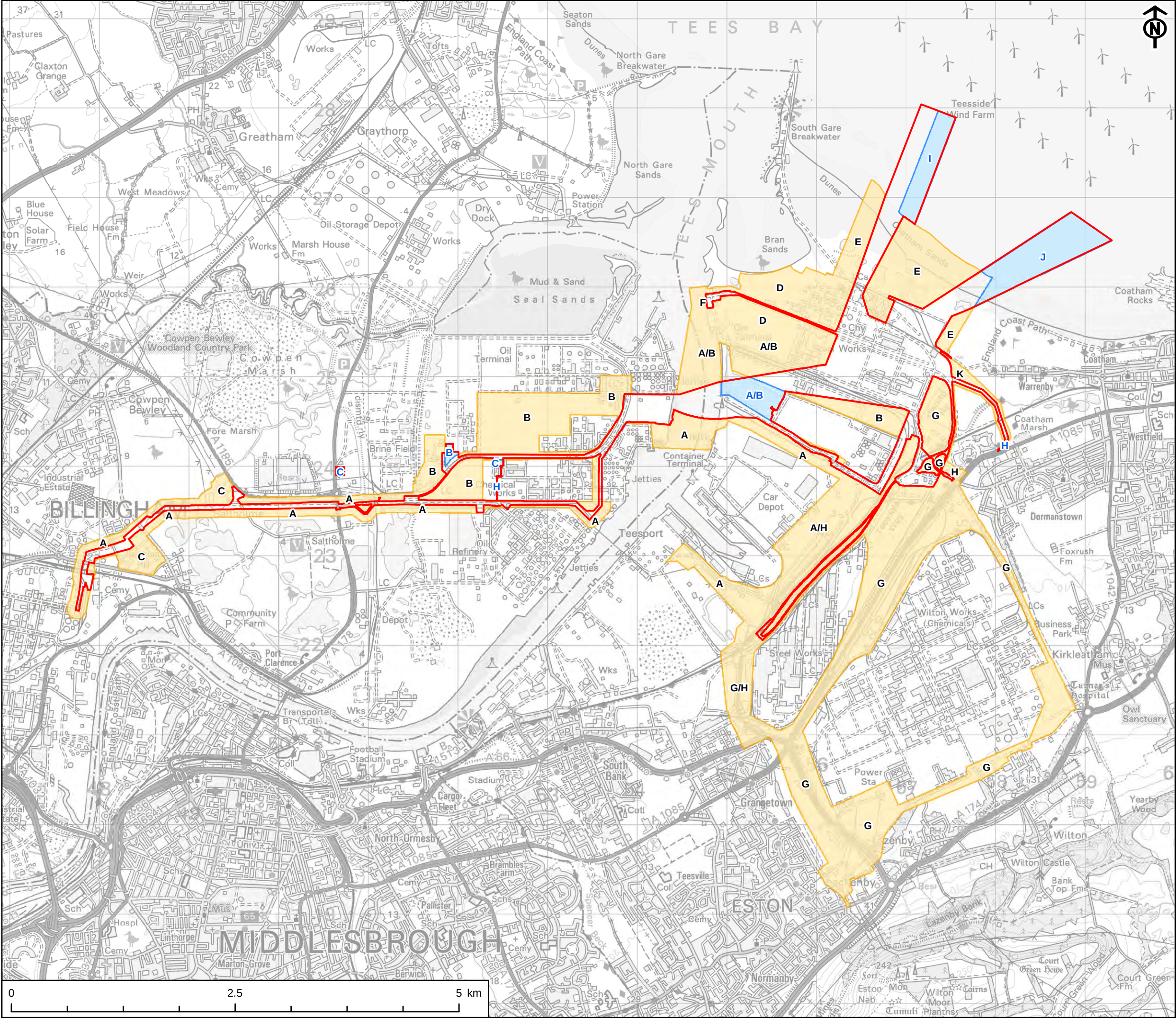
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Electrical Substation Extension
 - Indicative Electrical Connection Route

TITLE
FIGURE 5-3
INDICATIVE ELECTRICAL CONNECTION
ROUTEINGS

REFERENCE
NZN_250121_ES_5-3_v9

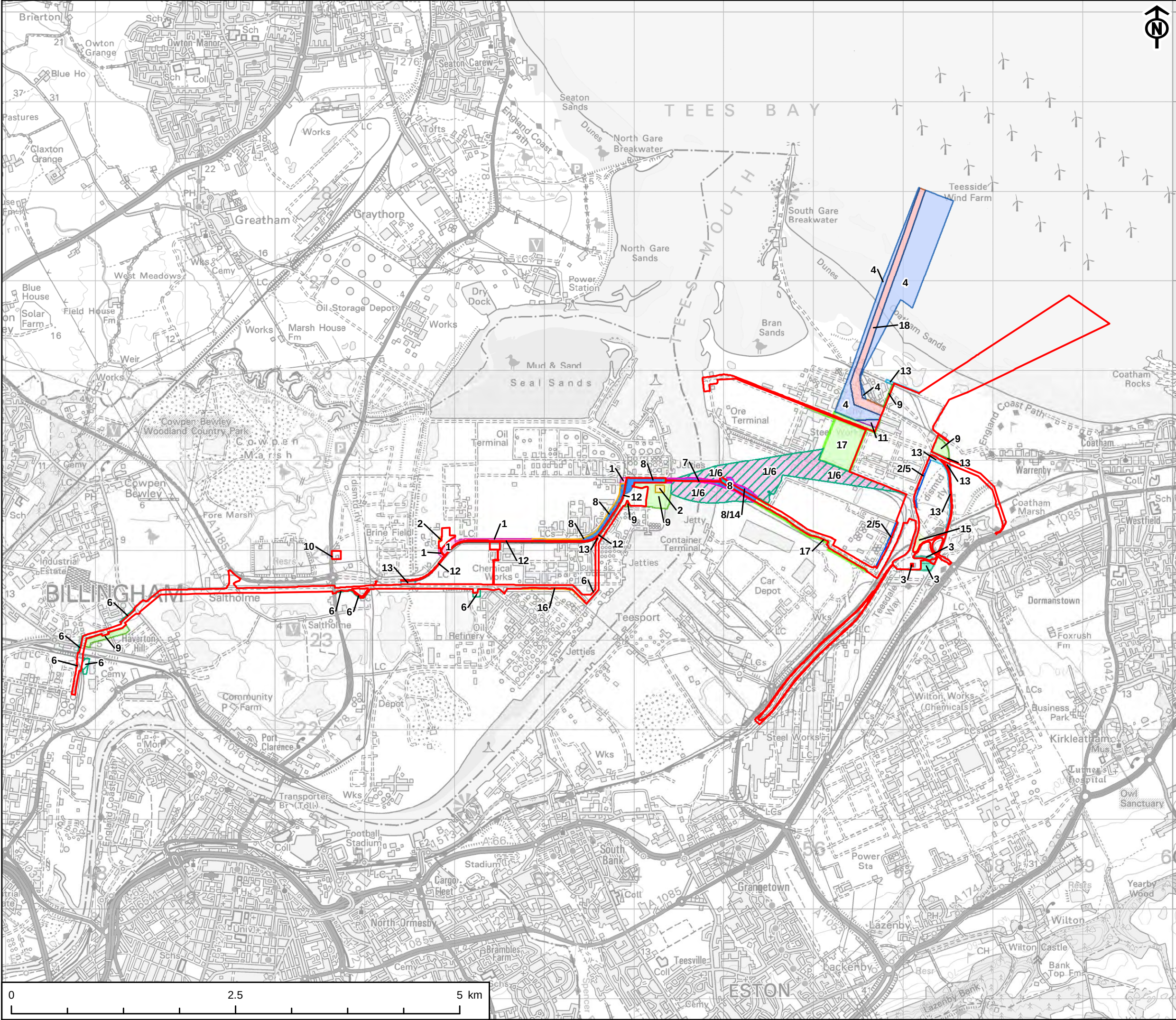
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DATE
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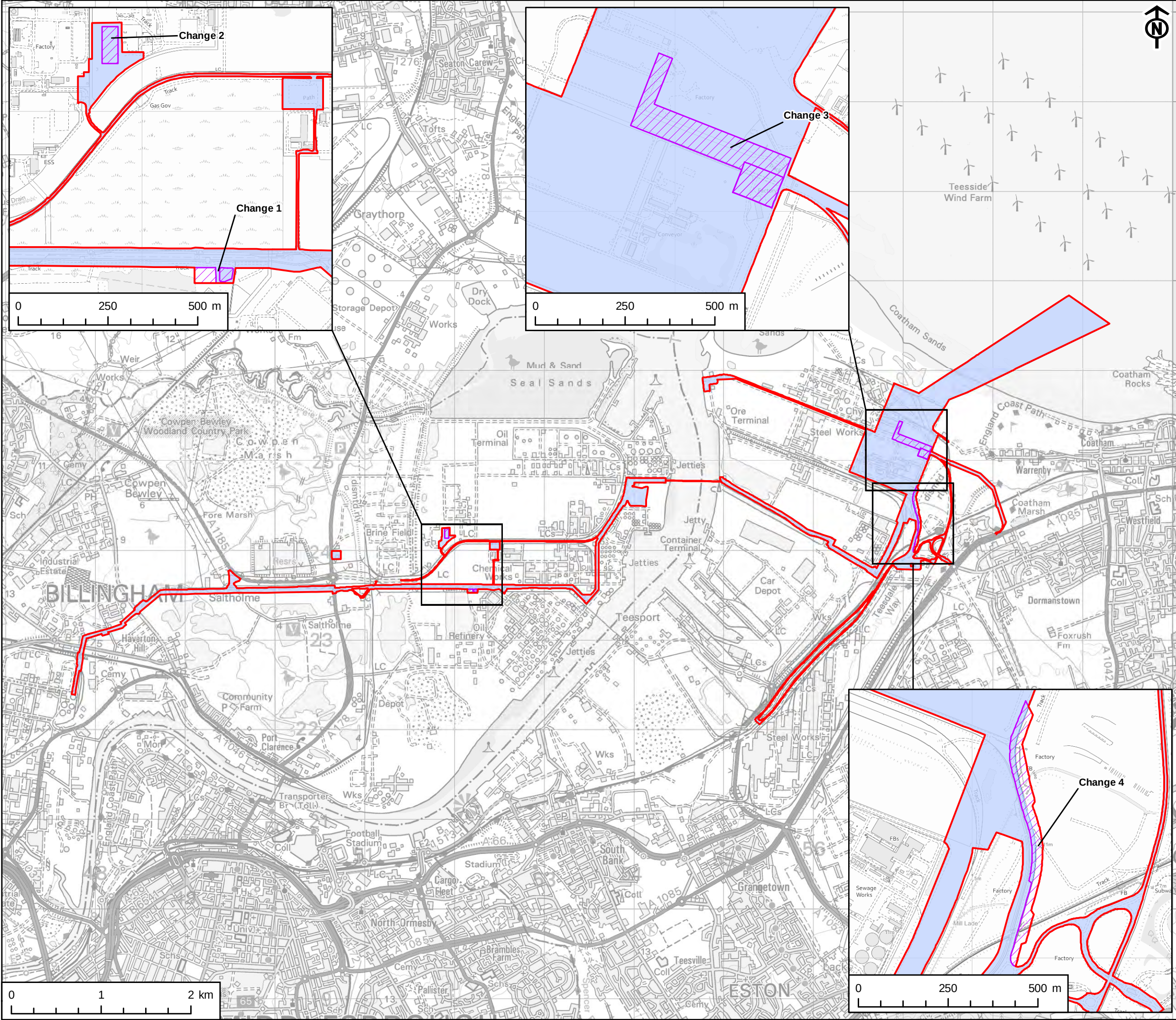
- KEY
- Site Boundary
 - Site Boundary Removal since PEIR
 - Site Boundary Addition since PEIR

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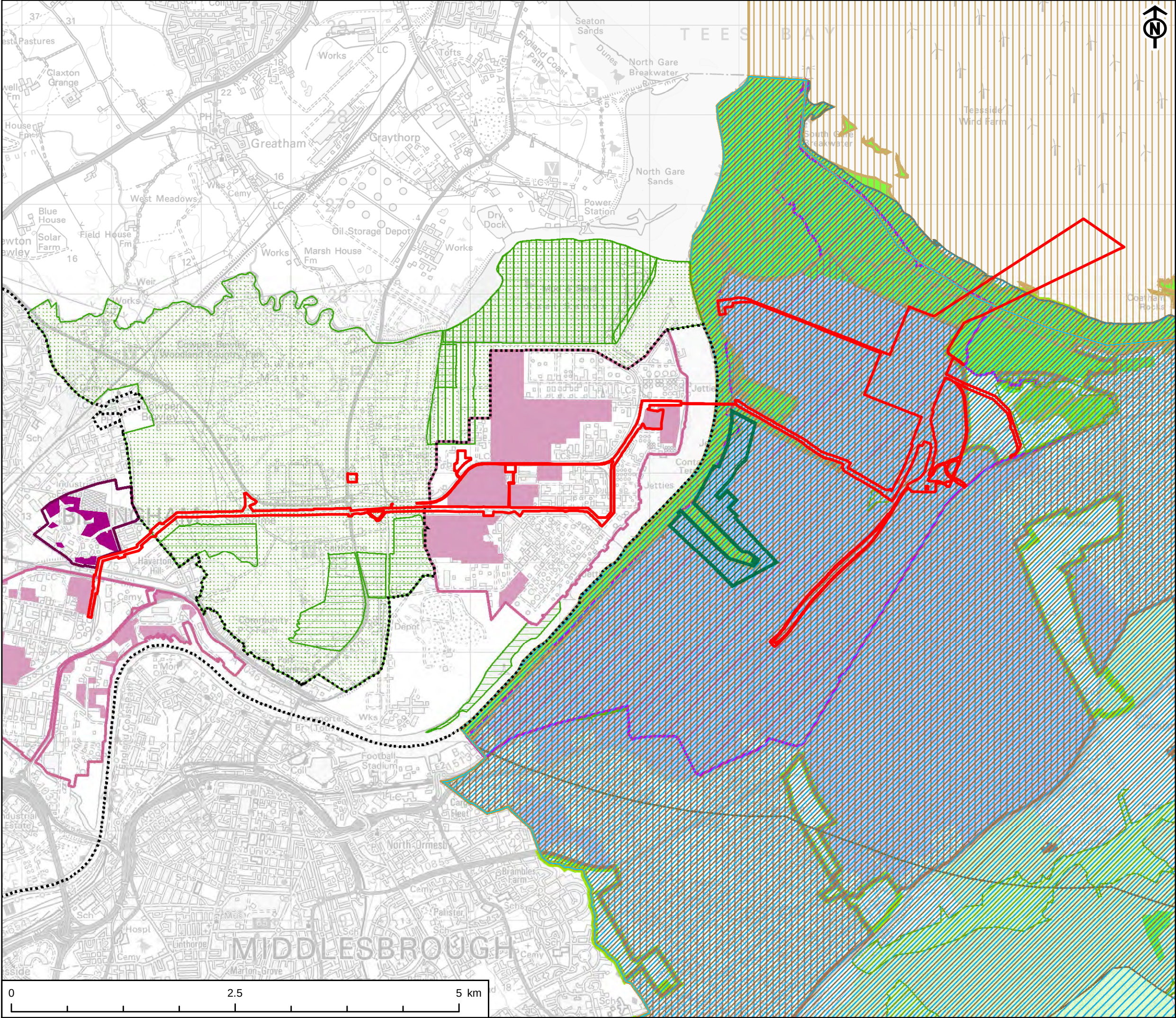
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- 17
- 18

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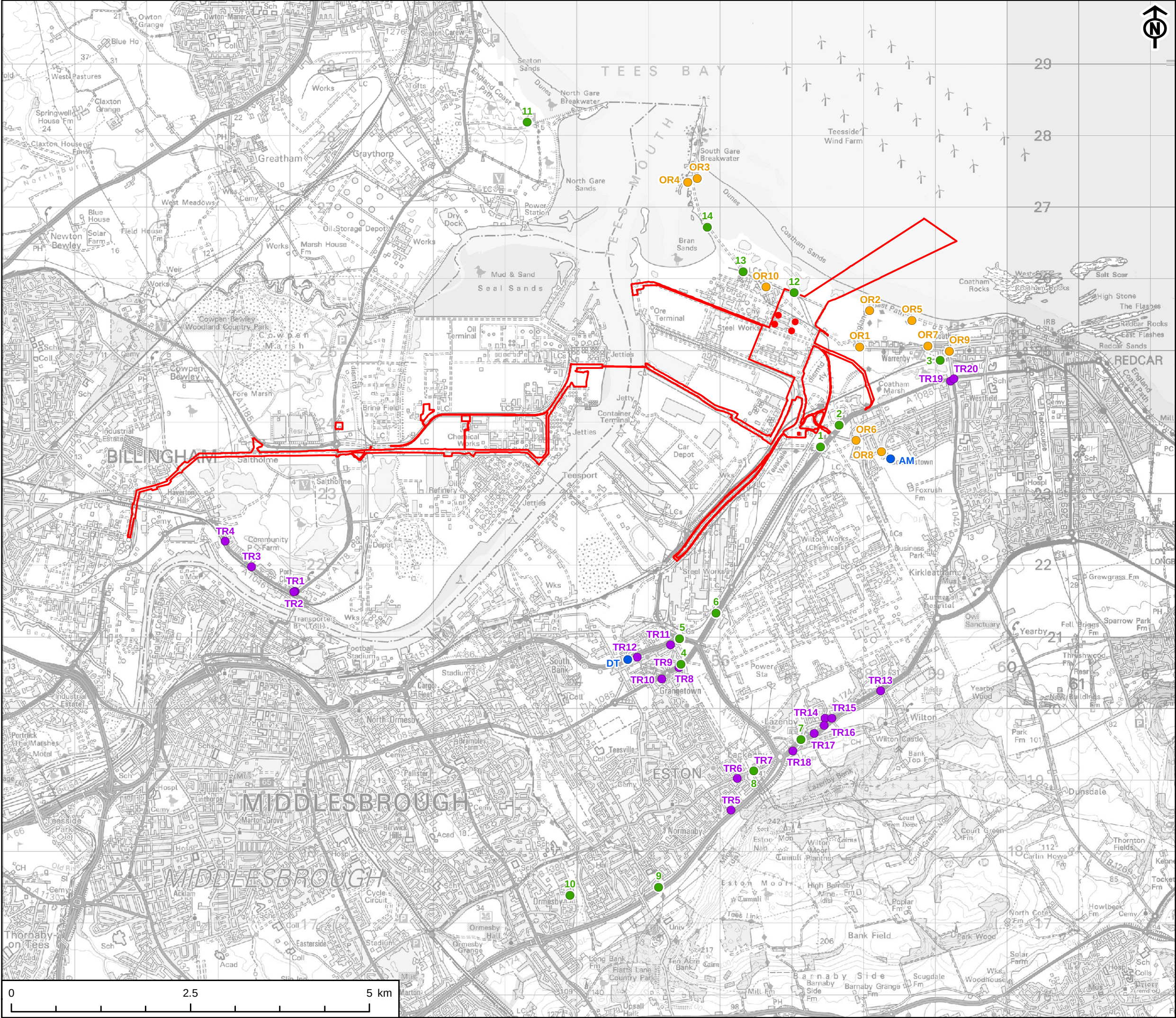


KEY	
	Proposed Order Limits for Non-Material Change
	DCO Order Limits
	Change Location Details

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- KEY
- Site Boundary
 - Stockton-on-Tees Local Plan (Jan 2019)
 - SD3, SD4 & SD5 Limits to Development
 - SD4 & EG4 Specialist Employment Allocations
 - SD4 EG4 Specialist Use Locations
 - SD4 & EG1 General Employment Allocations
 - SD4 & EG1 General Employment Locations
 - SD3, SD4 & SD5 Countryside
 - SD5 & ENV5 Internationally Designated Sites (SPA and Ramsar)
 - SD5 & ENV5 Nationally Designated Sites (SSSI)
 - Redcar and Cleveland Local Plan (May 2018)
 - N 4 6km Special Protection Areas (SPA) Buffer Zone
 - LS 4_ED 6 South Tees Development Corporation
 - SD 6 30km wind farm safeguarding area for Durham Tees Valley Airport
 - N 4 Local Wildlife Sites (LWS)
 - SD 3 Development Limits
 - N 4 Sites of Special Scientific Interest (SSSI)
 - N 4 Special Protection Areas (SPA)
 - ED 6 Protecting Employment Areas
 - N 2 Green Wedges
 - N 1 Sensitive Landscape Areas
 - MWC4 Safeguarding of Minerals Resources from Sterilisation - Salt
 - MWC4 Safeguarding of Minerals Resources from Sterilisation - Gypsum
 - MWC4, MWC5 Marine dredged Sand and Gravel
 - MWC11 Safeguarded Wharves



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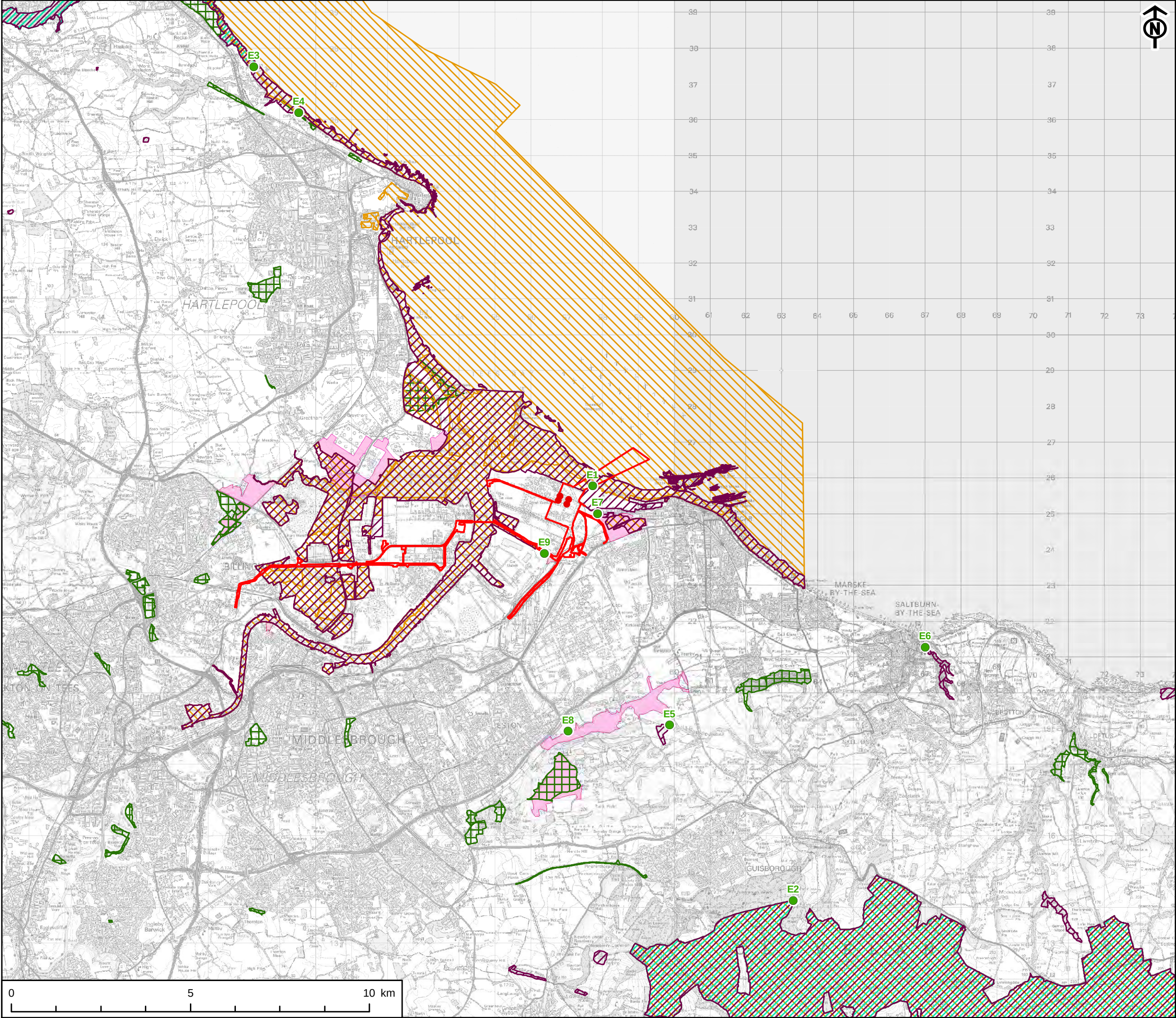
- KEY
- Site Boundary
 - Emission Source
 - Traffic Modelling Receptor
 - Operational Receptor
 - AECOM Diffusion Tube Monitoring
 - Local Authority Monitoring
 - AM - Domanstown Automatic Monitoring Station
 - DT - Council Diffusion Tube R27

TITLE
FIGURE 8-1
AIR QUALITY STUDY AREA
HUMAN HEALTH RECEPTORS AND
MONITORING

REFERENCE
NZT_250121_ES_8-1_v6

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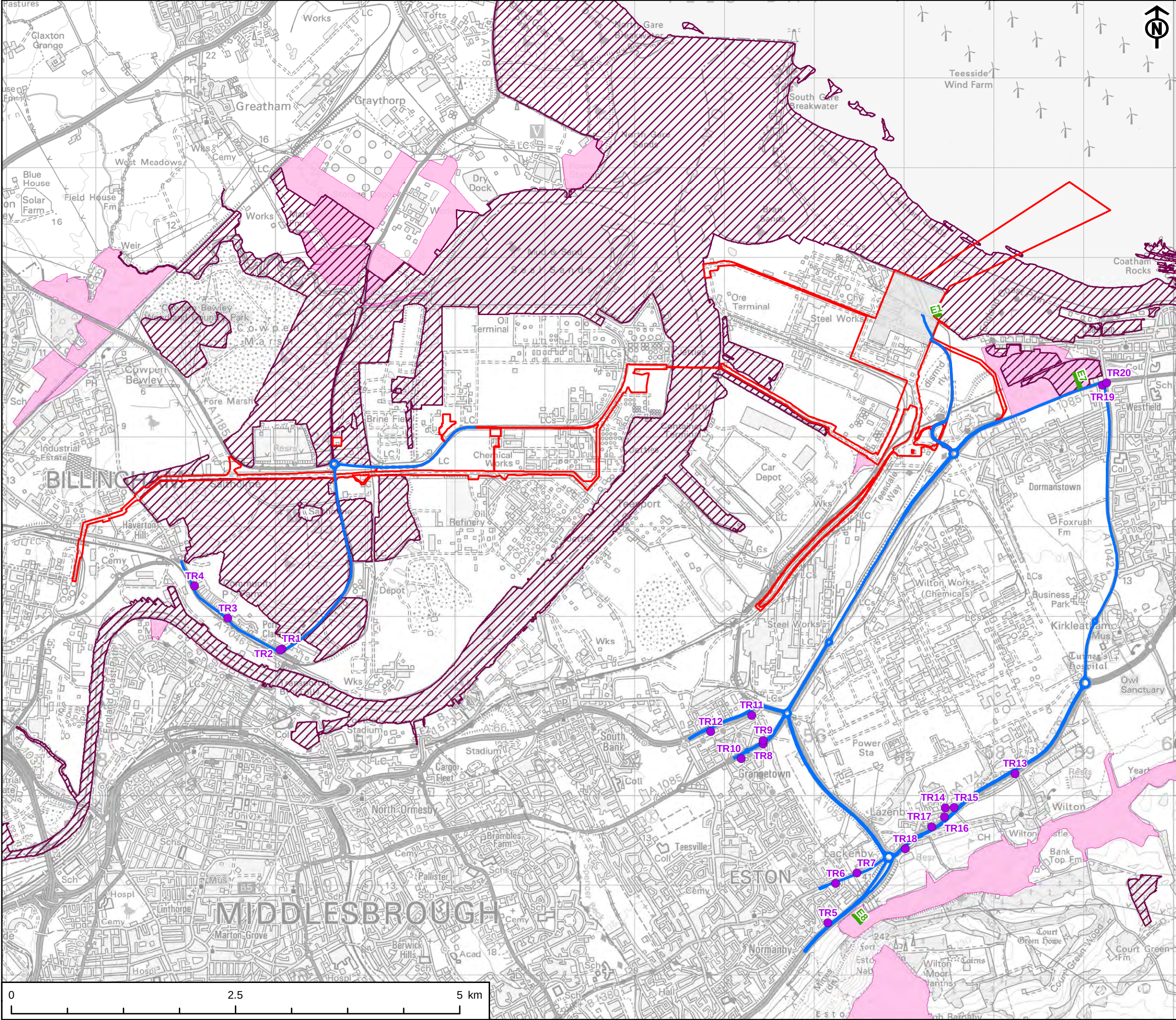
- KEY
- Site Boundary
 - Emission Source
 - Ecological Receptor
 - E1 - Teesmouth and Cleveland Coast Ramsar, SPA, SSSI
 - E2 - North York Moors SAC, SPA, SSSI
 - E3 - Northumbria Coast Ramsar, SPA
 - E4 - Durham Coast SAC
 - E5 - Lovell Hill Pools SSSI
 - E6 - Saltburn Gill SSSI
 - E7 - Coatham Marsh
 - E8 - Wilton Woods
 - E9 - Eston Pumping Station
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area
 - Local Nature Reserve
 - Local Wildlife Site

TITLE
FIGURE 8-2
AIR QUALITY STUDY AREA
ECOLOGICAL RECEPTORS

REFERENCE
NZN_250121_ES_8-2_v6

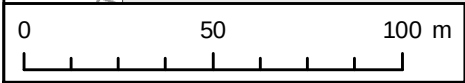
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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Traffic Modelling Receptor
 - Ecological Receptor - Transect
 - E1 - Teesmouth and Cleveland Coast SSSI
 - E7 - Coatham Marsh
 - E8 - Wilton Woods
 - Modelled Road Network (Construction)
 - Site of Special Scientific Interest
 - Local Wildlife Site

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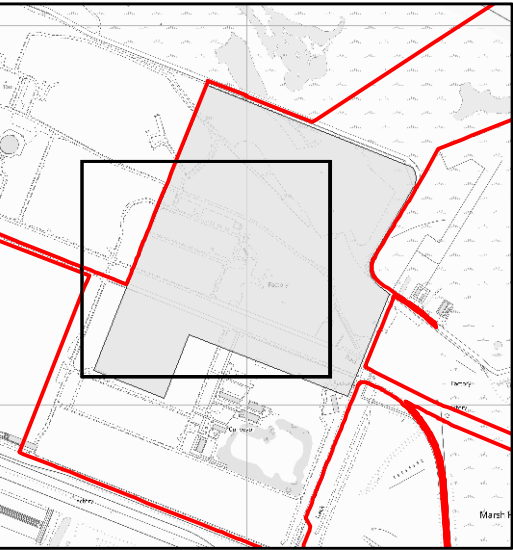
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KEY

-  Site Boundary
-  Power, Capture and Compressor Site
-  Emission Source
-  Building



The inset map shows a larger geographical context, including roads, rivers, and other land parcels. A black rectangular box highlights the specific area shown in detail in the main map.

TITLE
FIGURE 8-4
MODEL VISUALISATION

REFERENCE
NZT_250121_ES_8-4_v6

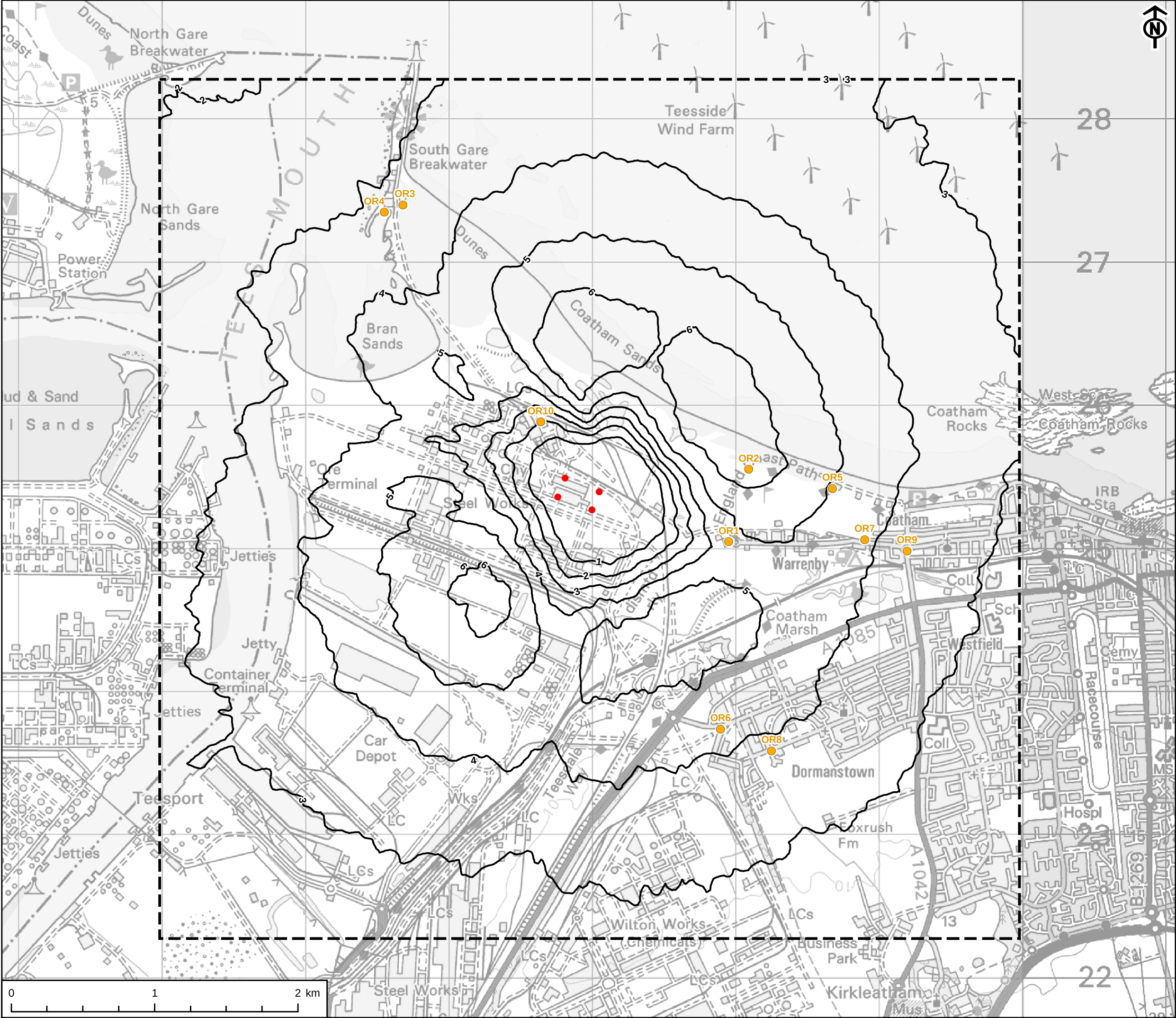
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KEY

- Study Area
- 99.79thile 1 hr Mean NO₂ PC (µg/m³)
- Emission Source
- Operational Receptor

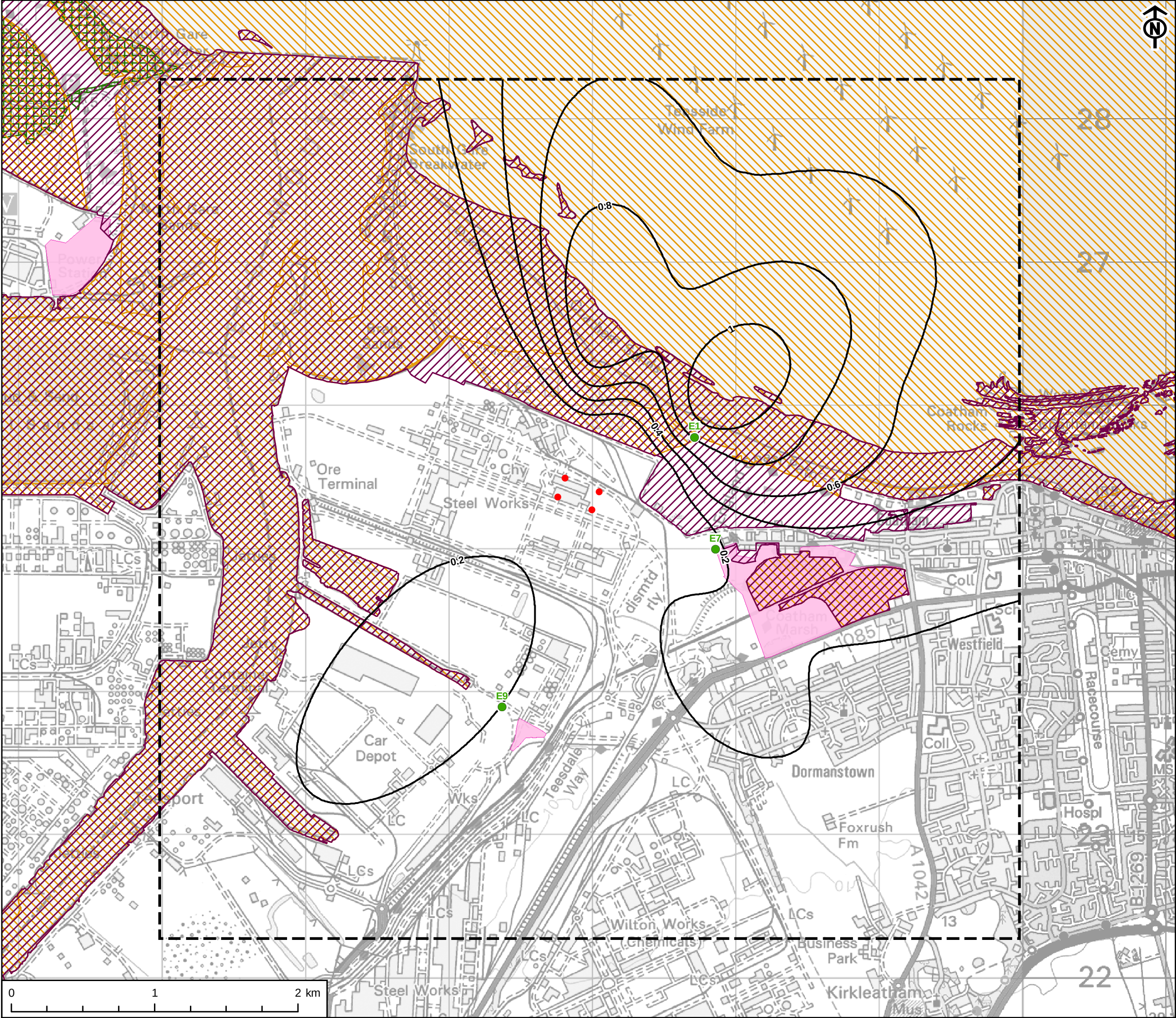
TITLE
FIGURE 8-6
99.79thILE 1 HOUR MEAN NO₂
CONCENTRATIONS (µg/m³) FROM
THE OPERATIONAL DEVELOPMENT
2015 METEOROLOGICAL YEAR
35°C RELEASE TEMPERATURE SCENARIO

REFERENCE
NZN_250121_ES_8-6_v3

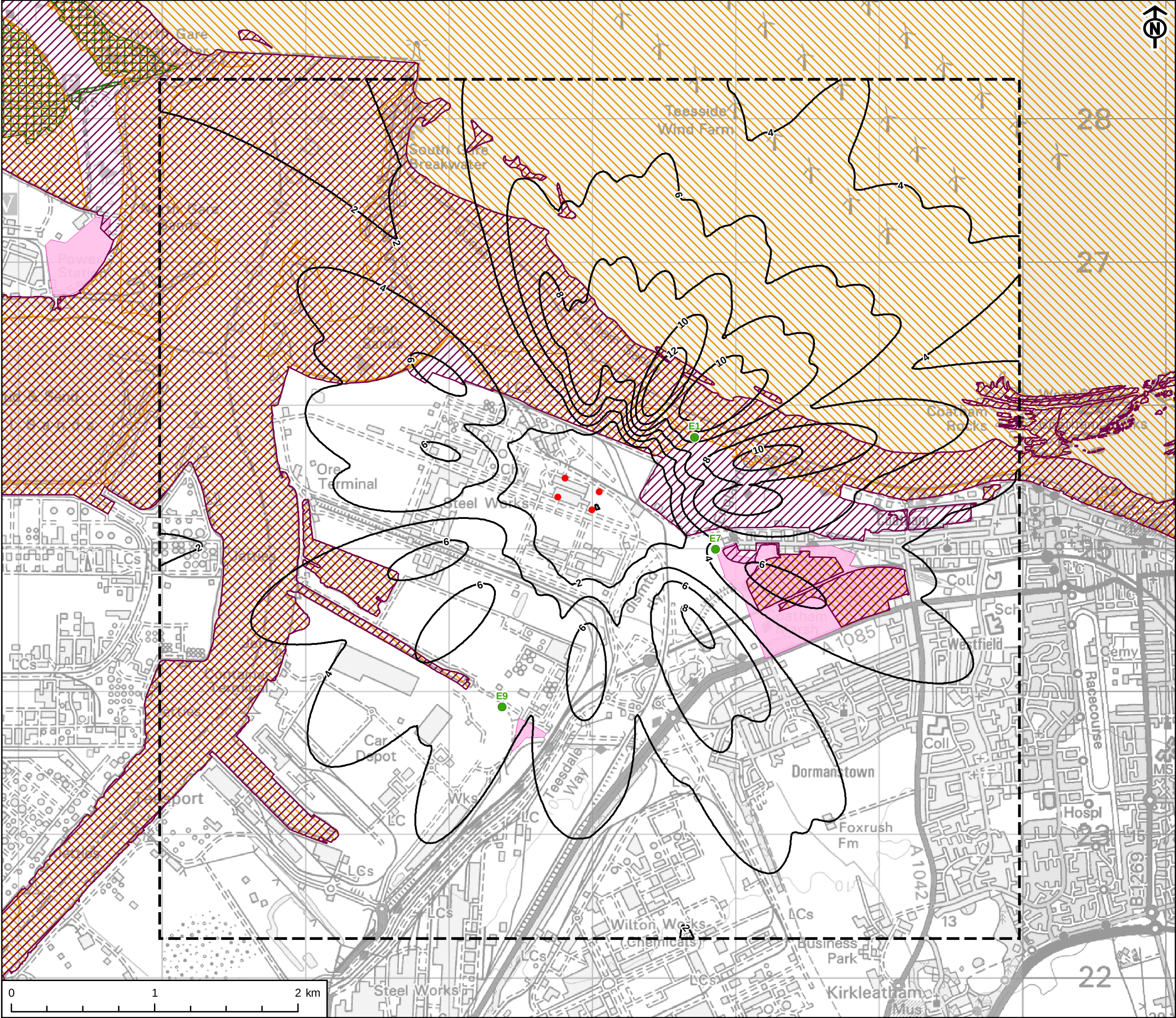
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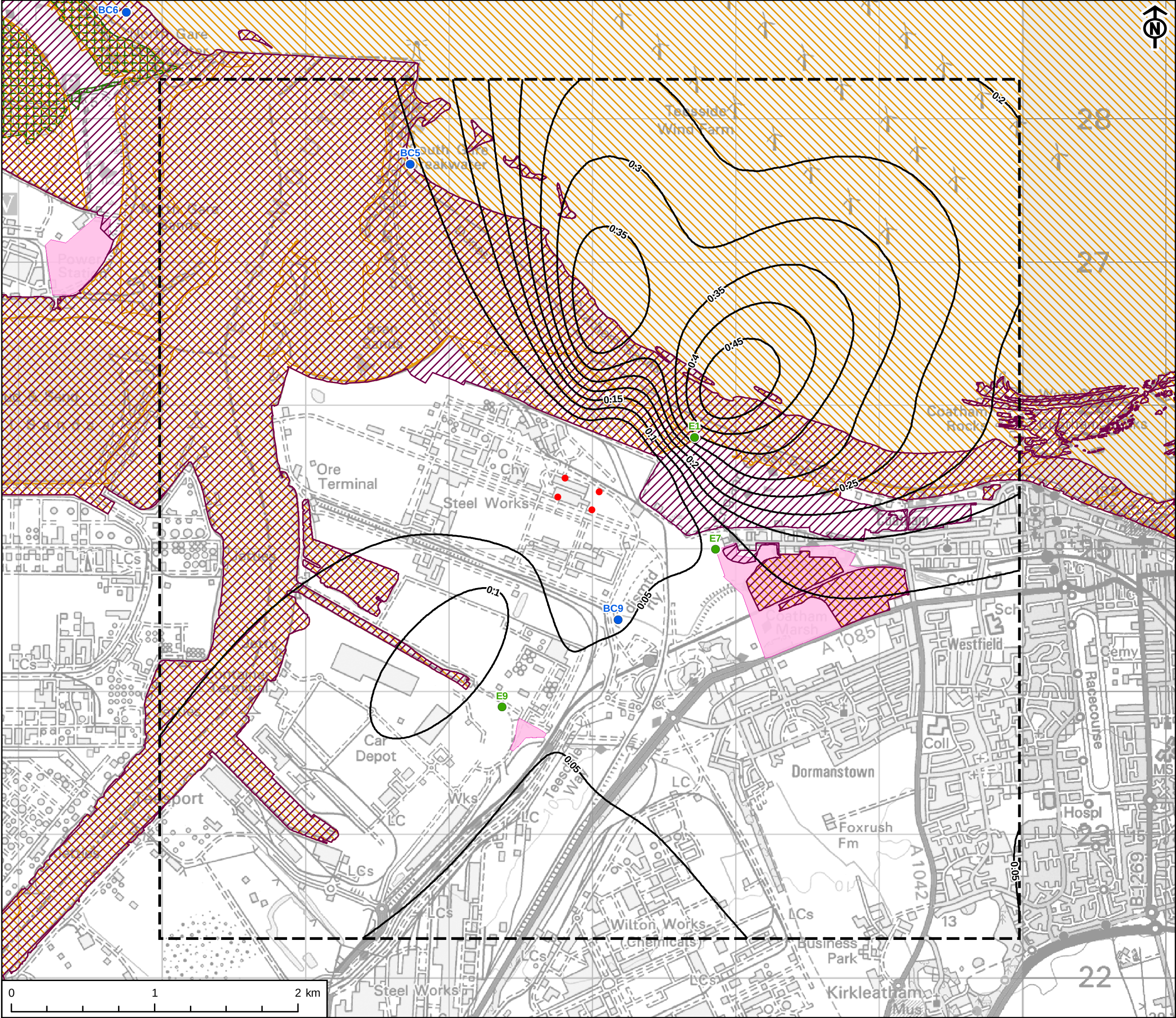
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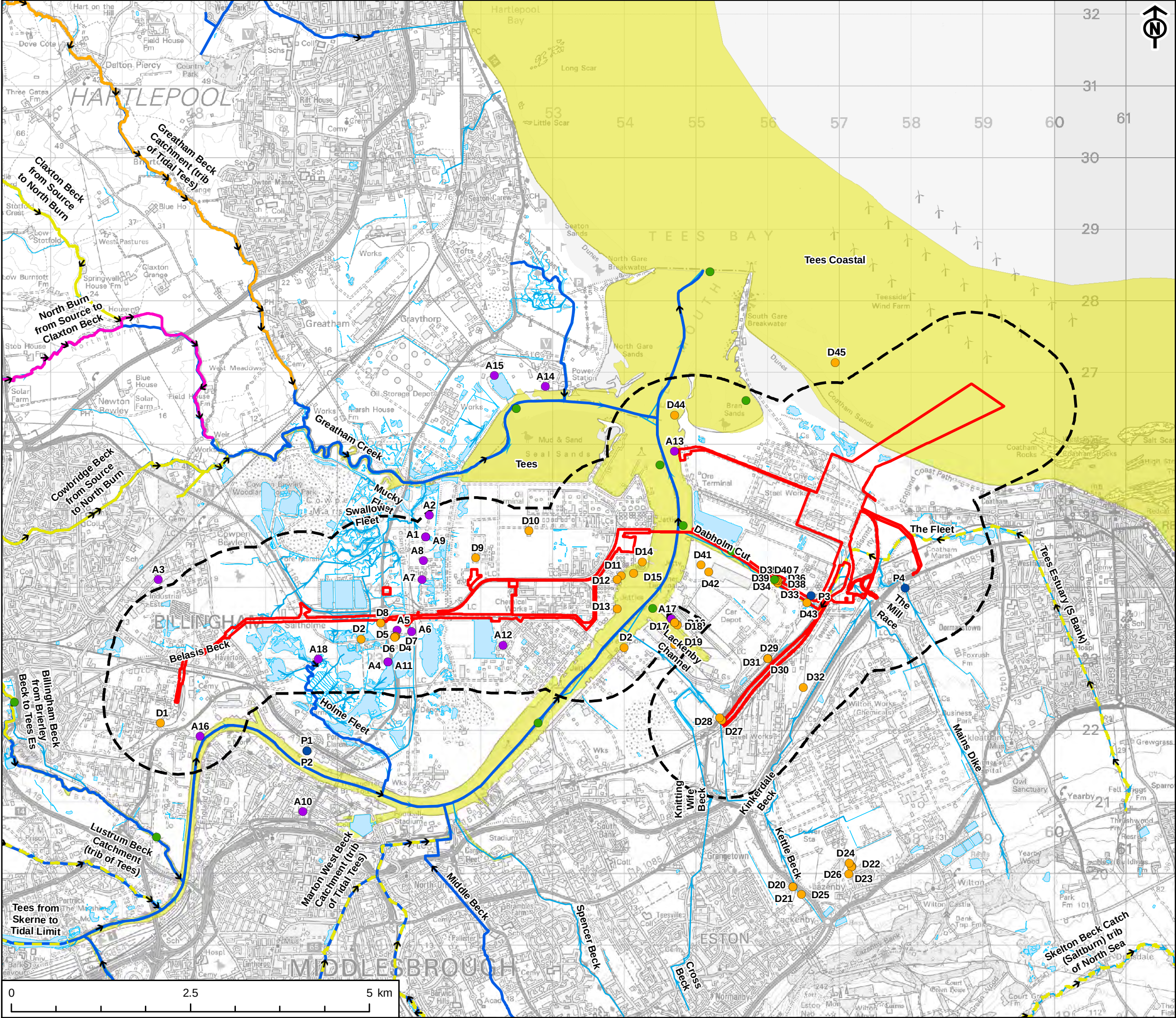


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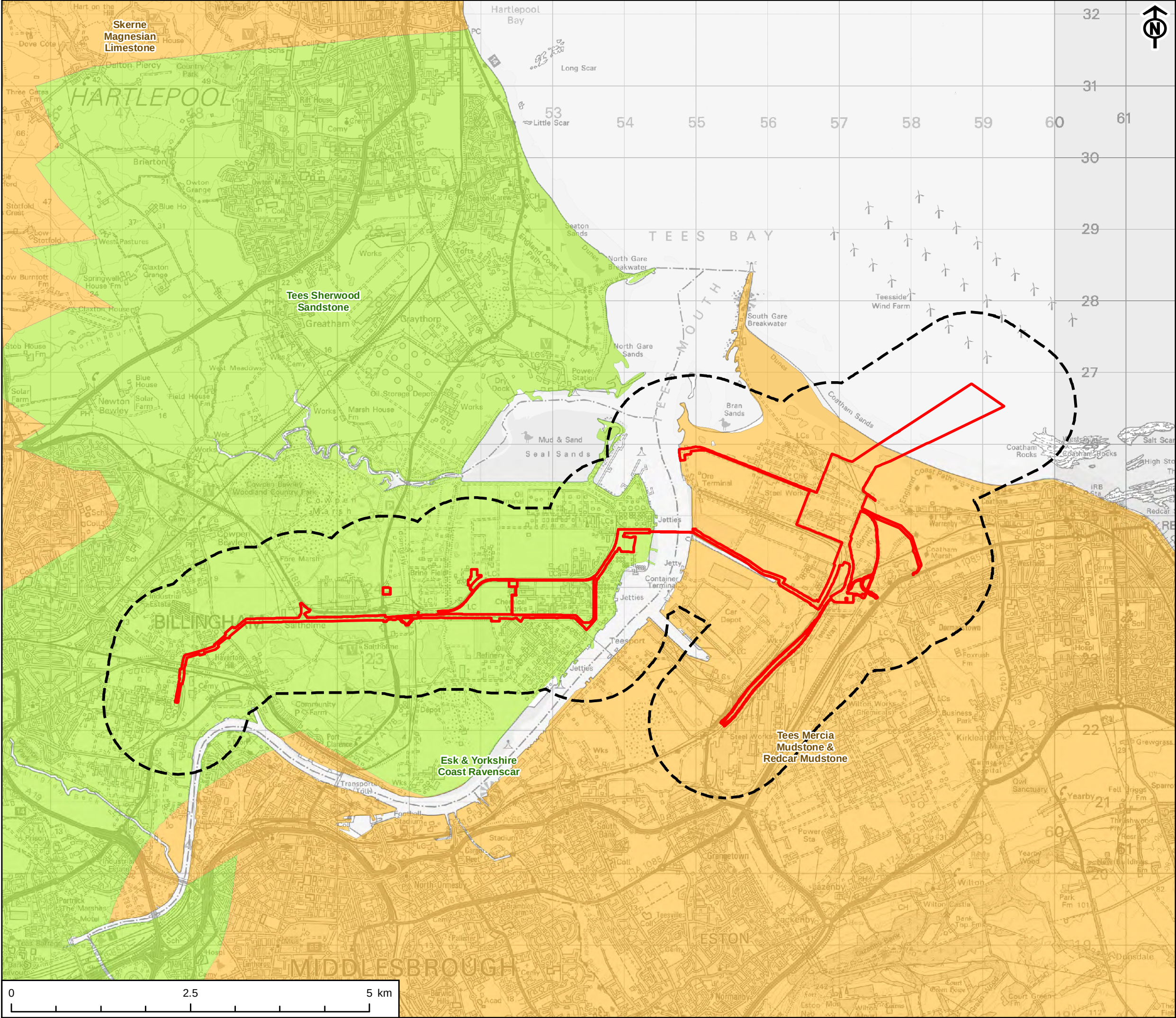




KEY	
	Study Area
	Nutrient N Deposition (kg N/ha/yr)
	Emission Source
	Bird Colony
	Ecological Receptor
	E1 - Teessmouth and Cleveland Coast Ramsar, SPA, SSSI
	E7 - Coatham Marsh
	E9 - Eston Pumping Station
	Site of Special Scientific Interest
	Special Protection Area
	Local Nature Reserve
	Local Wildlife Site



- KEY
- Site Boundary
 - 1km Study Area
 - Selected Environment Agency Monitoring Station
 - Consented Discharge Location (i.e Water Activity Permit)
 - Abstraction Location (Licenced)
 - Pollution Incident
 - Main River
 - Ordinary Watercourse
 - Surface Water Area
 - WFD Surface Water - Ecological Class
 - Moderate
 - Moderate (Heavily Modified)
 - Poor
 - Bad
 - Moderate (Heavily Modified)



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PROJECT
NET ZERO TEESSIDE PROJECT



APPLICANTS
NZT POWER LTD. AND NZNS STORAGE LTD.

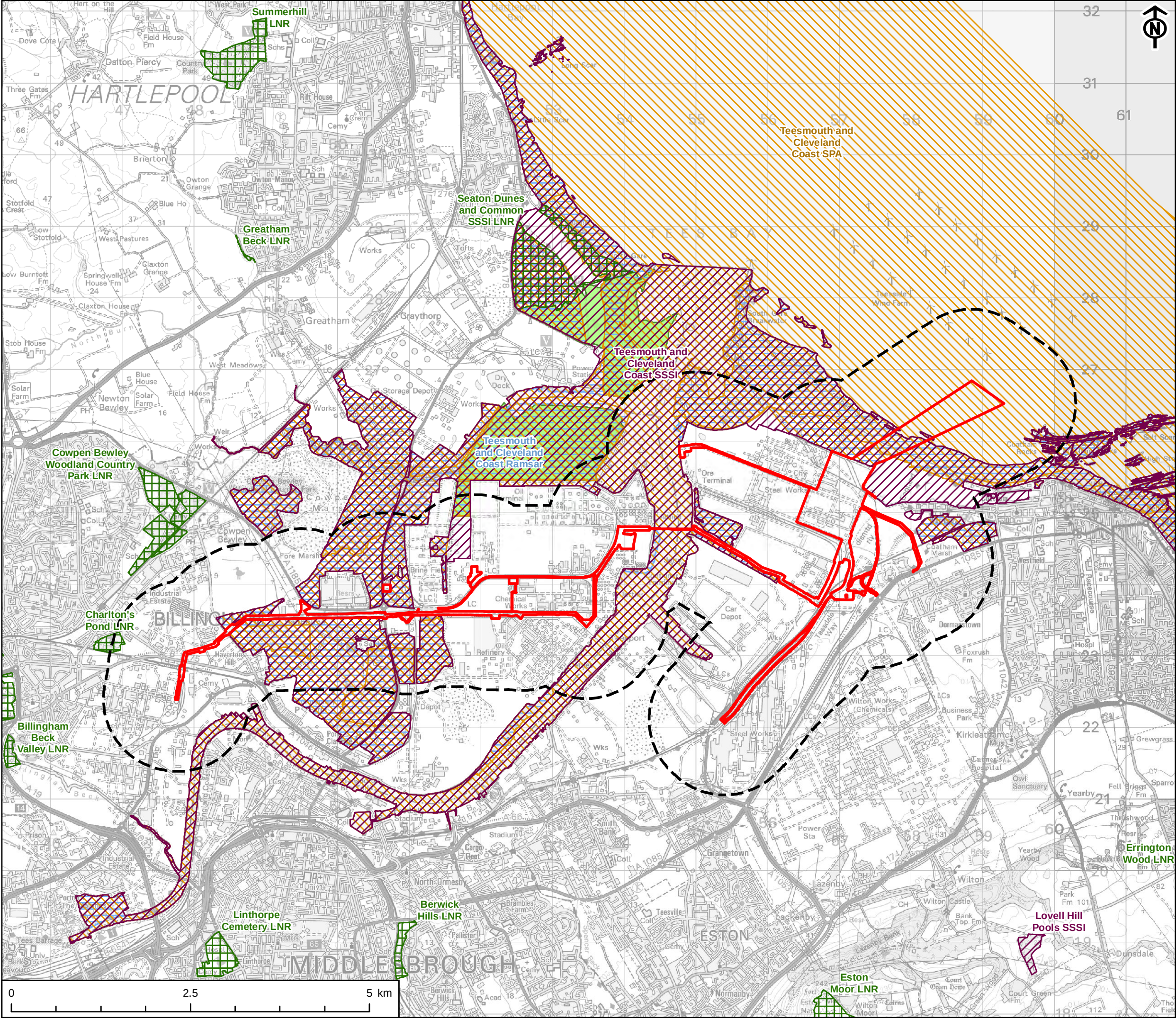
- KEY
- Site Boundary
 - 1km Study Area
 - WFD Ground Water - Overall Status
 - Good
 - Poor

TITLE
FIGURE 9-2
GROUNDWATER FEATURES AND THEIR
ATTRIBUTES

REFERENCE
NZT_250121_ES_9-2_v6

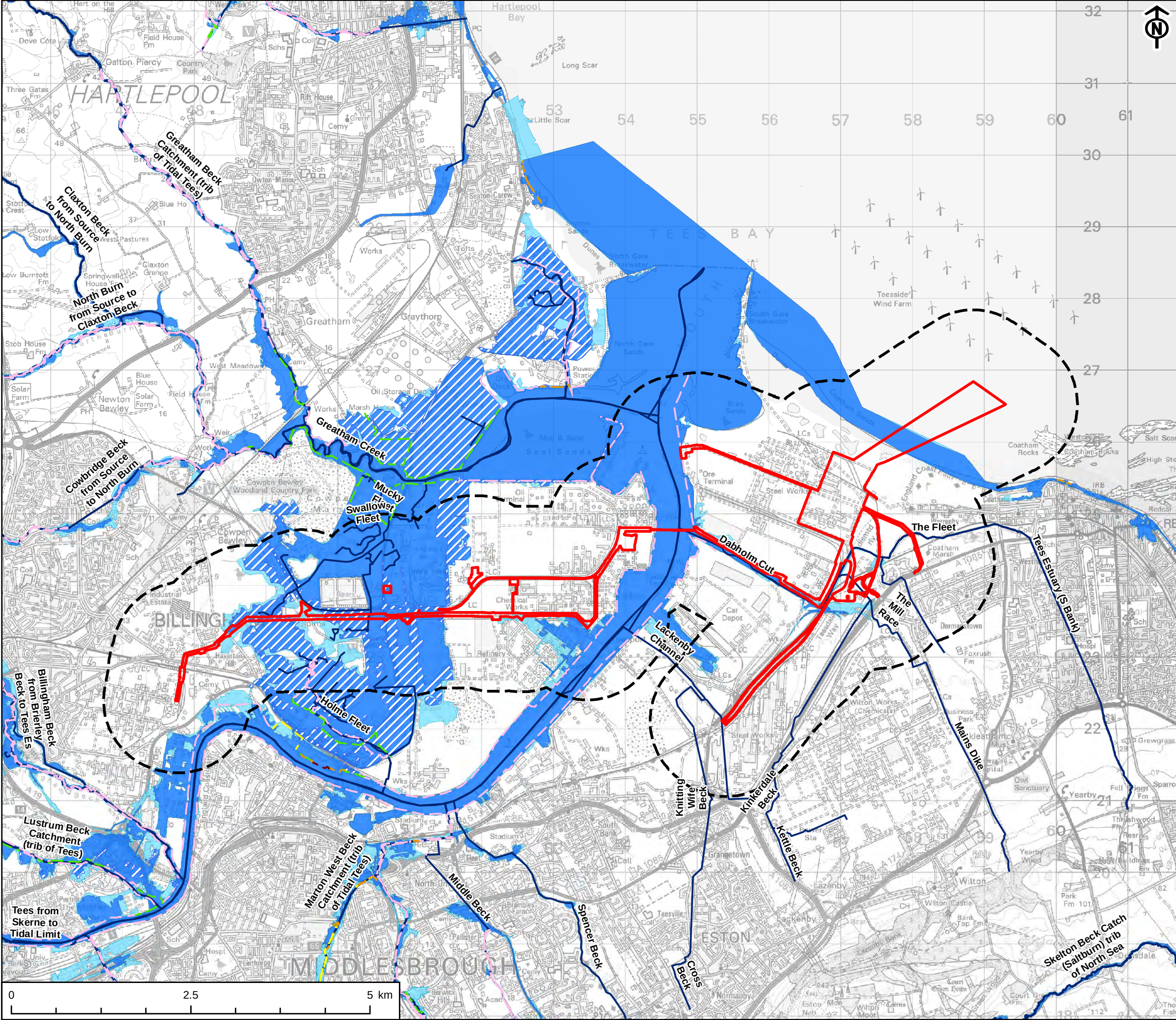
SHEET NUMBER
1 of 1

DATE
21/01/2025



- KEY
- Site Boundary
 - 1km Study Area
 - Site of Special Scientific Interest
 - Special Protection Area
 - Ramsar
 - Local Nature Reserve
 - Teessmouth National Nature Reserve

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KEY	
	Site Boundary
	1km Study Area
	Watercourse
	Area Benefiting from Flood Defences
	Flood Zone 3 (EA)
	Flood Zone 2 (EA)
Flood Defence (EA)	
	Bridge Abutment
	Demountable Defence
	Embankment
	Engineered High Ground
	Flood Gate
	Natural High Ground
	Spillway
	Wall

SOURCE:
EA Flood Map for Planning (Rivers and Sea) -
Flood Zone 2 & 3

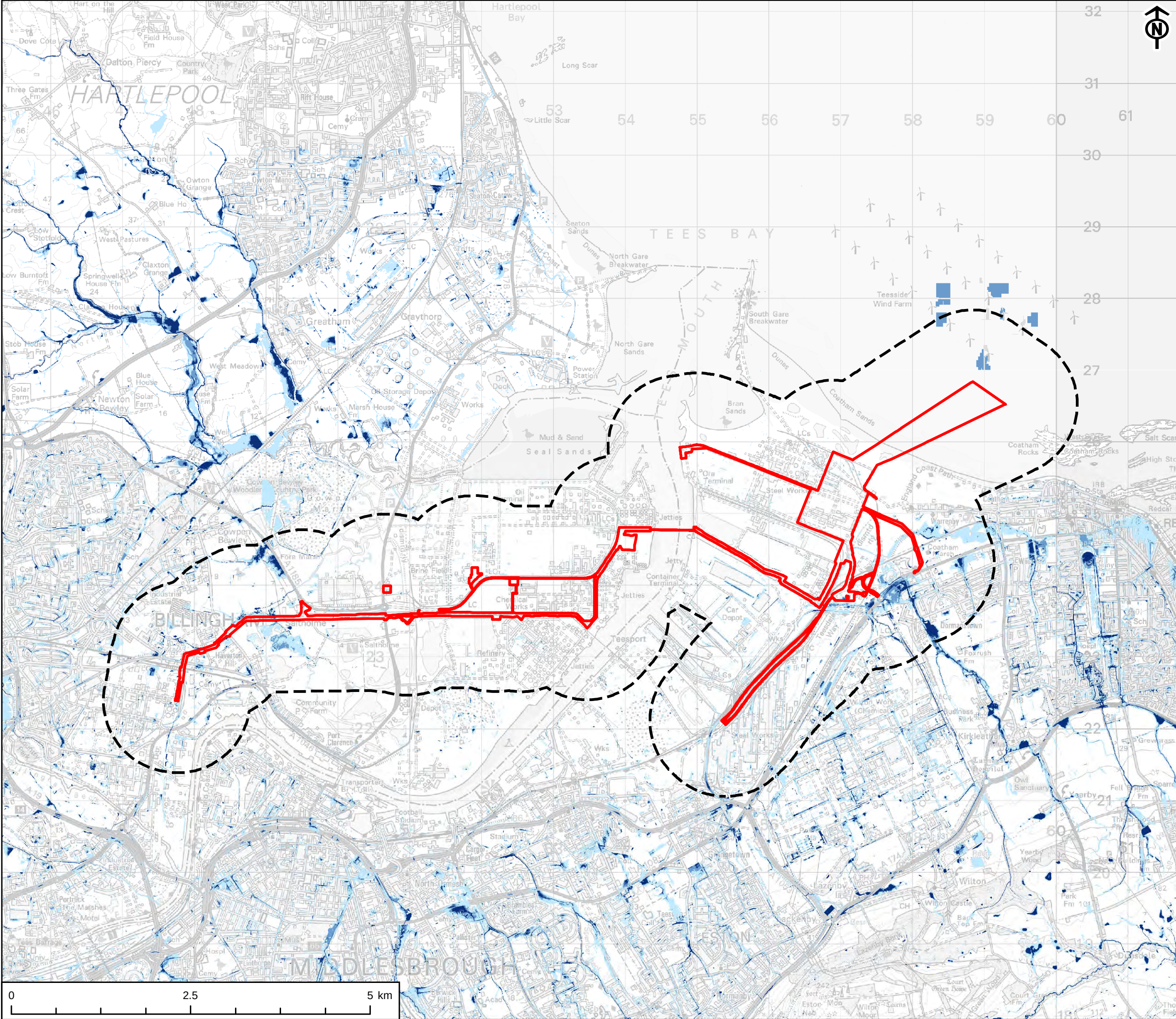
EA Flood Map for Planning (Rivers and Sea) -
Areas Benefiting from Defences

EA Spatial Flood Defences (inc. standardised
attributes)

TITLE
FIGURE 9-4
ENVIRONMENT AGENCY FLUVIAL FLOOD
ZONES

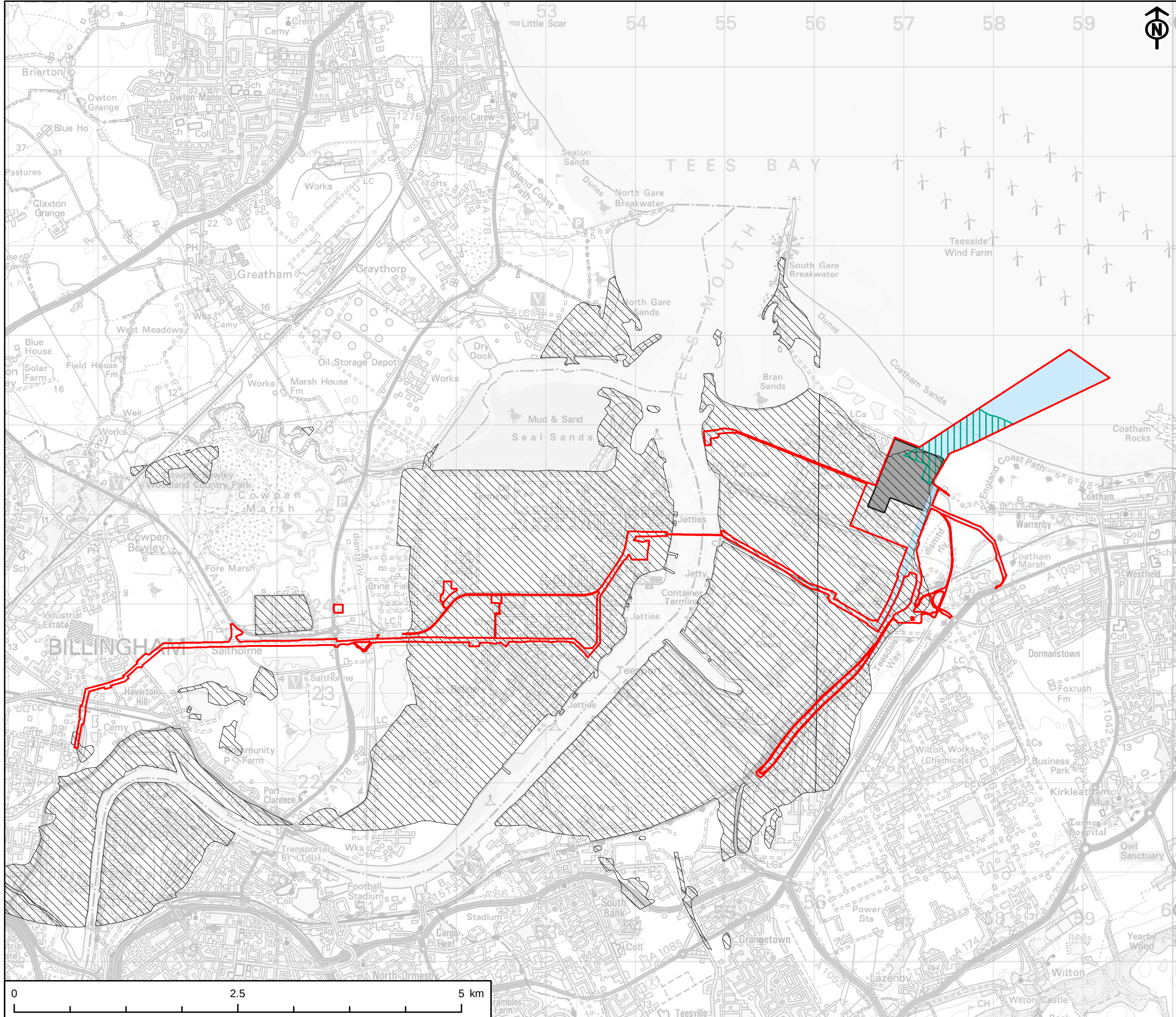
REFERENCE
NZN_250121_ES_9-4_v5

SHEET NUMBER	DATE
1 of 1	21/01/2025



- KEY
- Site Boundary
 - 1km Study Area
 - Risk of Flooding from Surface Water (EA)
 - 3.3% Annual Chance
 - 1% Annual Chance
 - 0.1% Annual Chance

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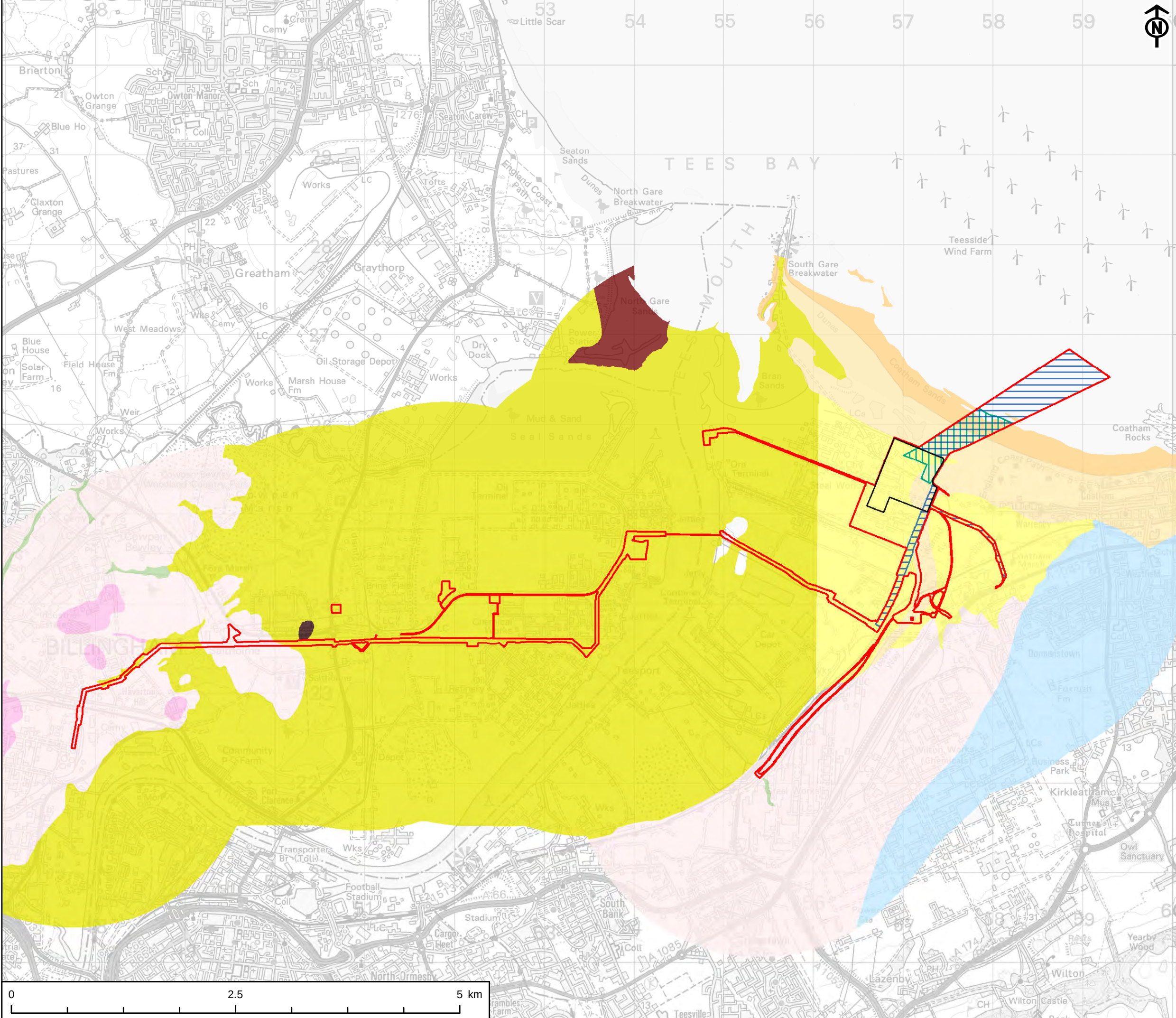


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KEY

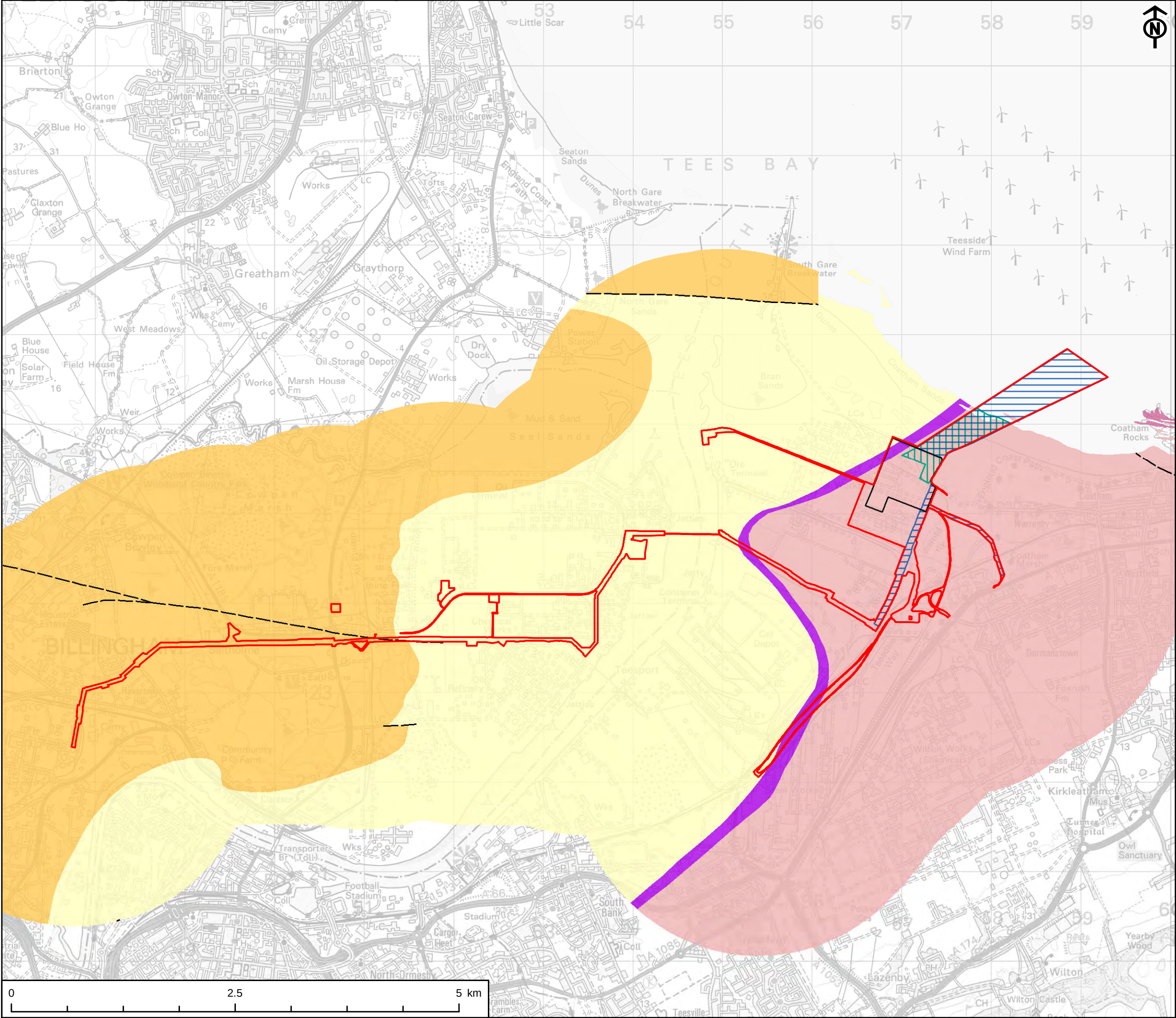
-  Site Boundary
-  Power, Capture and Compressor Site
-  Water Connection Corridors
-  CO₂ Export Pipeline
-  Artificial Geology (BGS 50k)
-  Made Ground (Undivided) - Artificial Deposit

SHEET NUMBER 1 of 1 DATE 21/01/2025



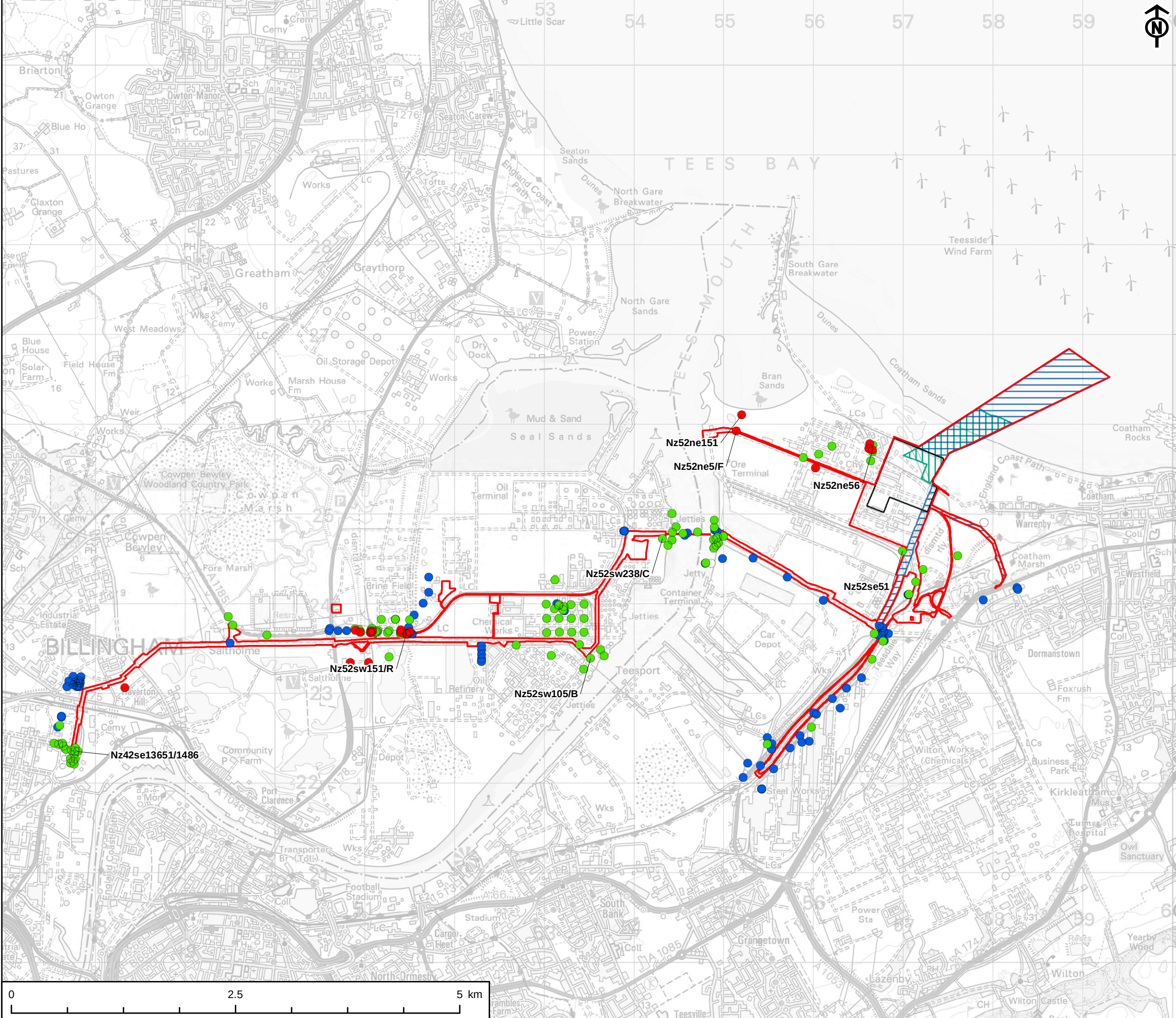
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
- Superficial Geology (BGS 50k)
- Alluvium - Clay, Silt, Sand and Gravel
 - Tidal Flat Deposits - Sand and Silt
 - Tidal Flat Deposits - Sand, Silt and Clay
 - Glaciolacustrine Deposits, Devensian - Sand
 - Glaciolacustrine Deposits, Devensian - Clay and Silt
 - Till, Devensian - Diamicton
 - Blown Sand - Sand
 - Beach and Tidal Flat Deposits (Undifferentiated) - Sand
 - Marine Beach Deposits - Sand and Gravel
 - Peat - Peat

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Linear Geology (BGS 50k)
 - Fault, inferred, displacement unknown
 - Bedrock Geology (BGS 50k)
 - Staites Sandstone Formation - Sandstone
 - Redcar Mudstone Formation - Mudstone
 - Penarth Group - Mudstone
 - Mercia Mudstone Group - Mudstone
 - Sherwood Sandstone Group - Sandstone

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
- BGS Borehole (Depth m)
- 0 - 10m
 - 10 - 30m
 - 30m +
 - Other



APPLICANTS

NZT POWER LTD. AND NZNS STORAGE LTD.

KEY

-  Site Boundary
-  Power, Capture and Compressor Site
-  Water Connection Corridors
-  CO₂ Export Pipeline
-  BGS Recorded Mineral Site
-  Registered Landfill Site
-  Registered Landfill Site
-  EA Permitted Waste Sites Authorised Landfill
-  Licensed Waste Management Facility Location (Landfill Boundary)
-  EA Historic Landfill

TITLE

FIGURE 10-5
QUARRYING AND LANDFILL

REFERENCE

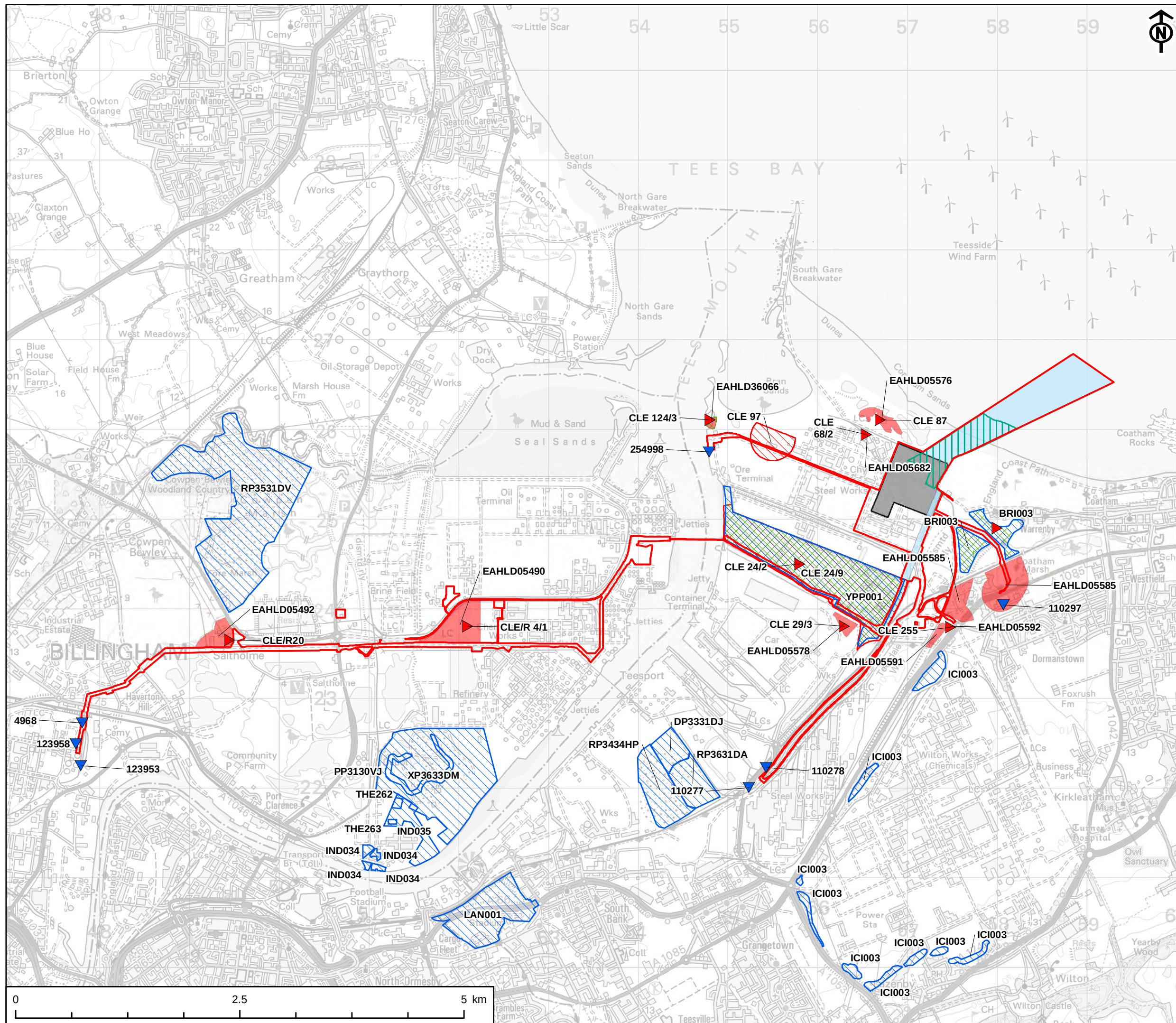
NZT_250121_ES_10-5_v5

SHEET NUMBER

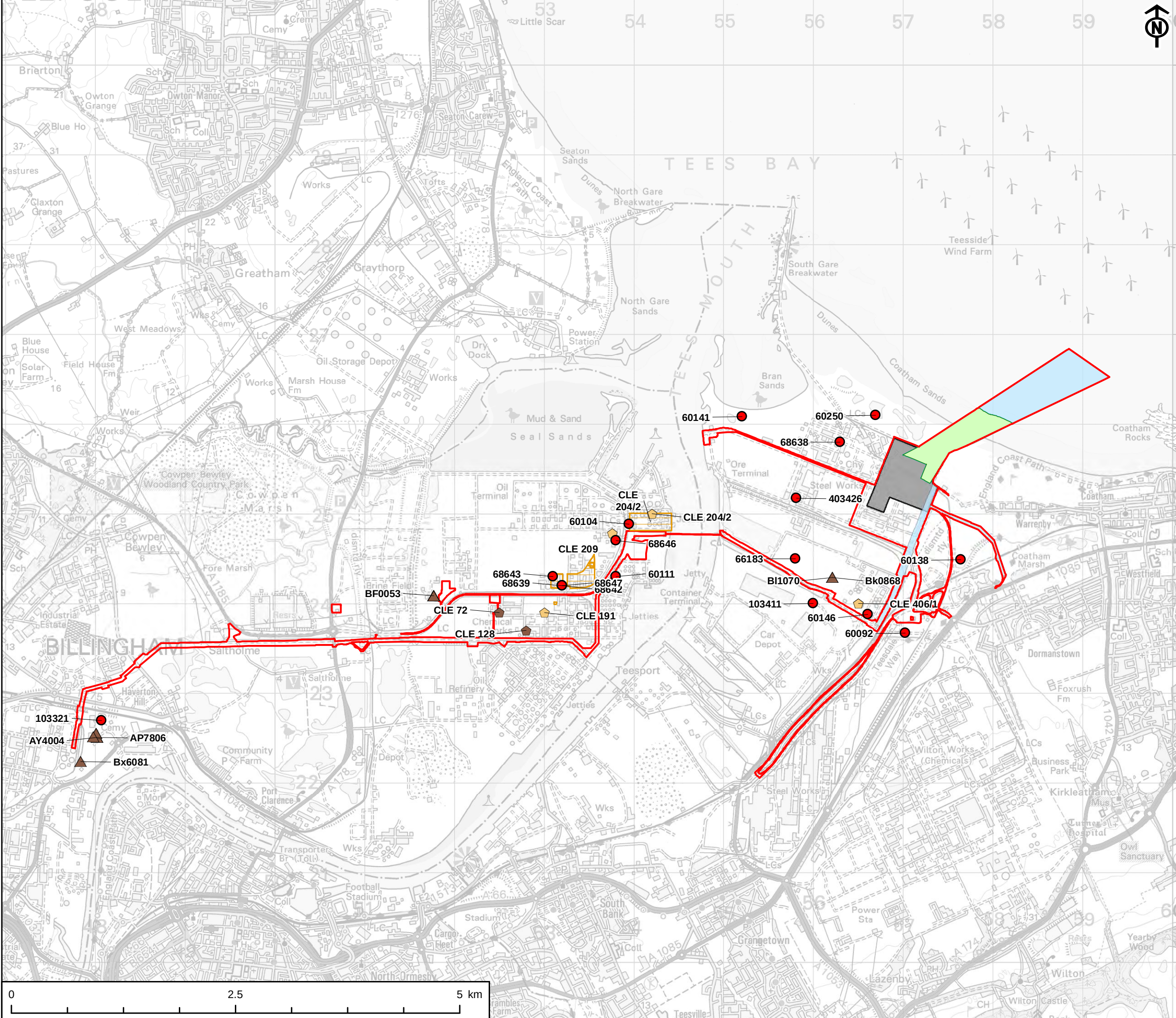
1 of 1

DATE

1/01/2025



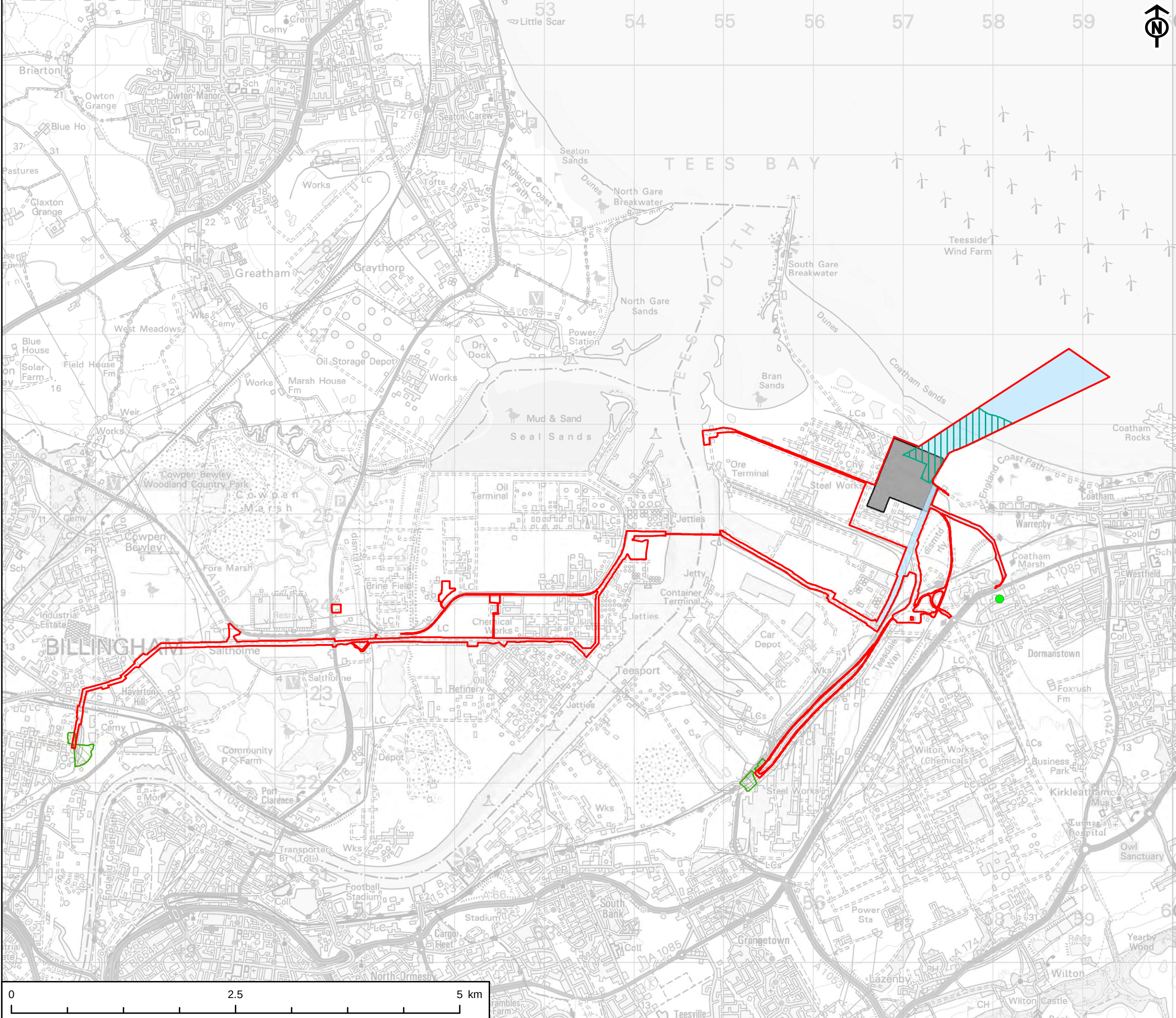
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- KEY**
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility Location
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site
 - Registered Waste Treatment or Disposal Site

Project Management Initials: IC Designer: LC Checked: AR Approved: CC

Scale @ A3 1:40,000



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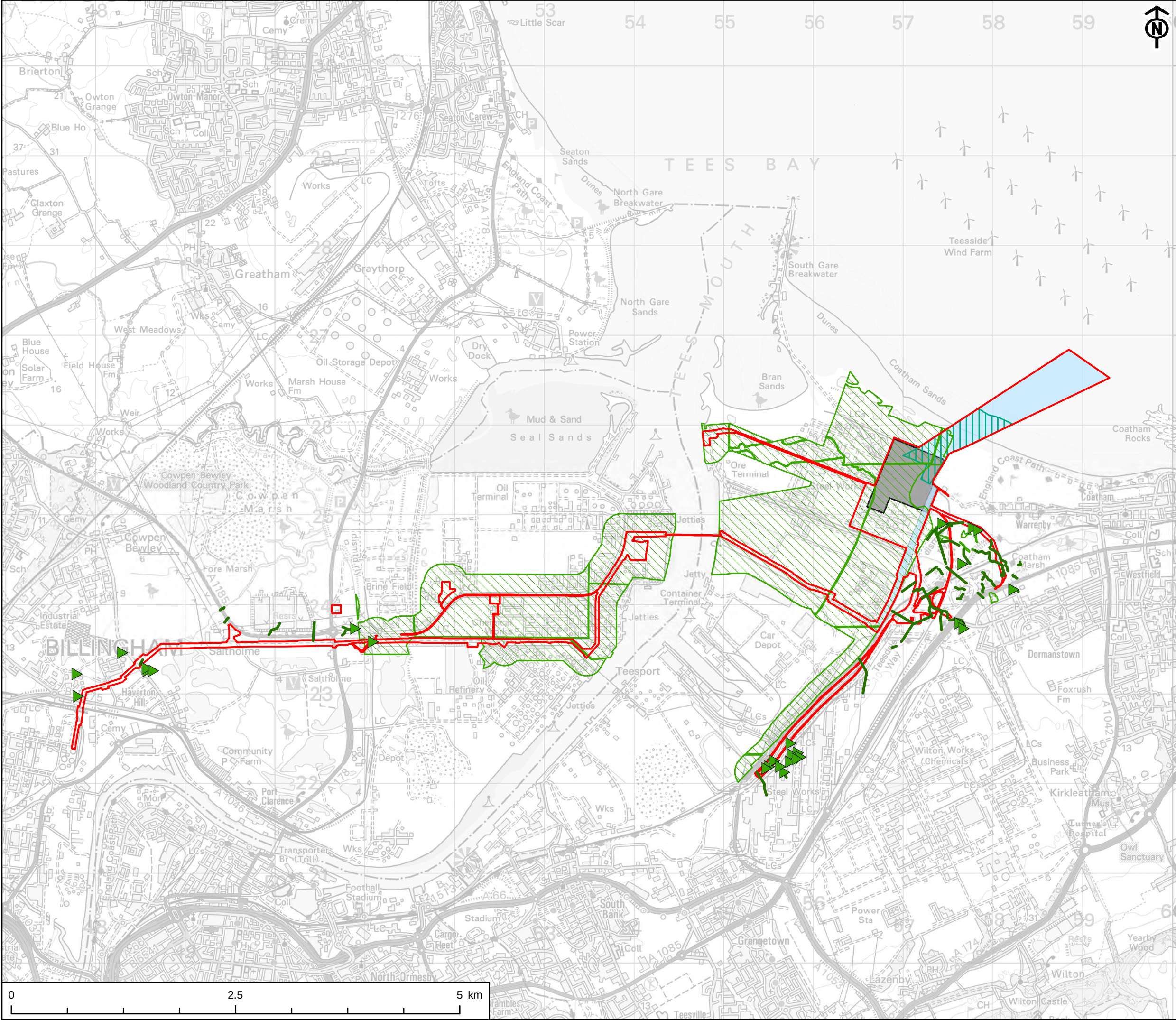
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Potentially Infilled Land (Non Water)
 - Potentially Infilled Land (Non Water)

TITLE
FIGURE 10-7
INFILLED LAND - NON WATER

REFERENCE
NZN_250121_ES_10-7_v5

SHEET NUMBER
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DATE
21/01/2025



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APPLICANTS
NZT POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)

TITLE
FIGURE 10-8
INFILLED LAND - WATER

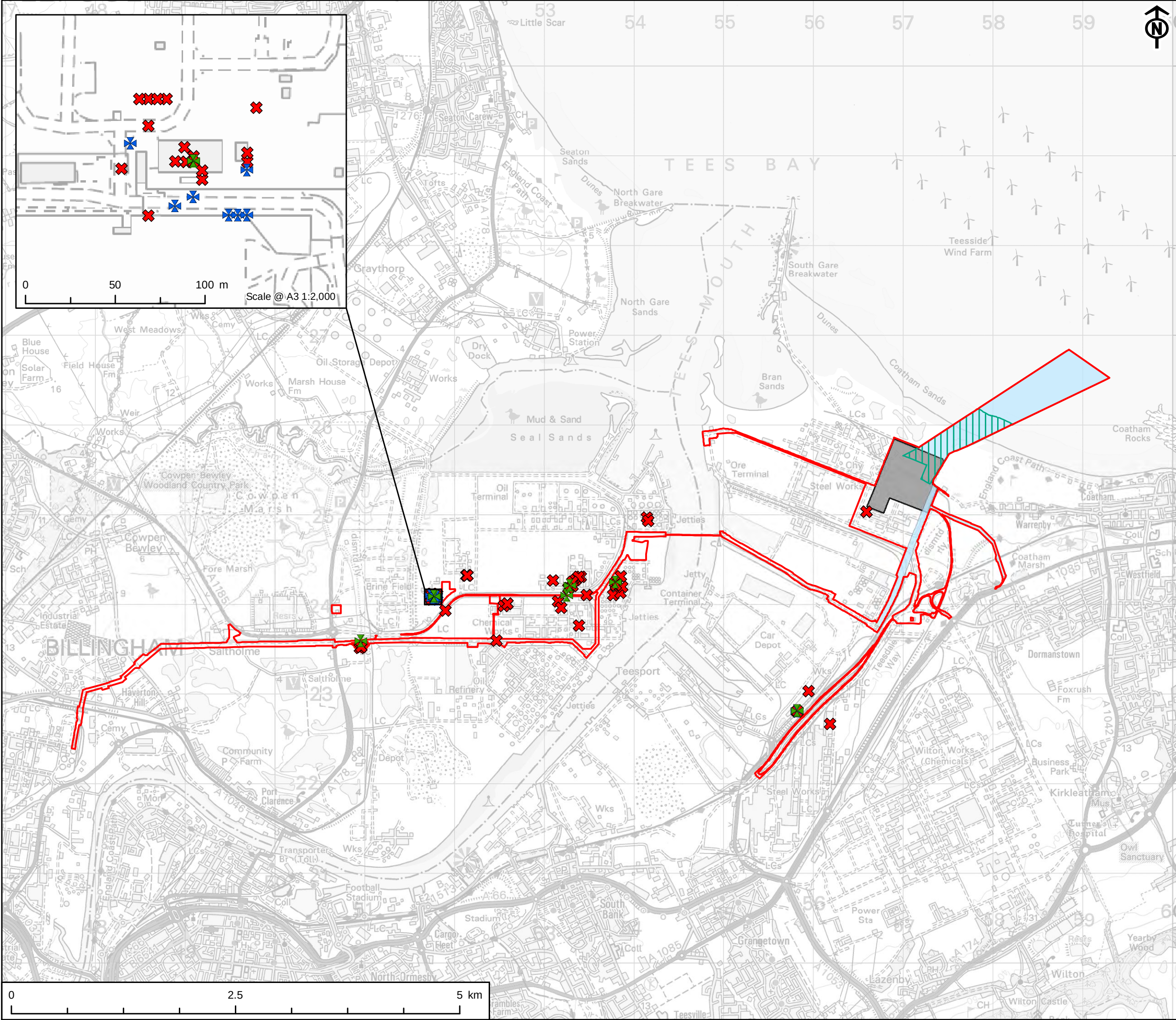
REFERENCE
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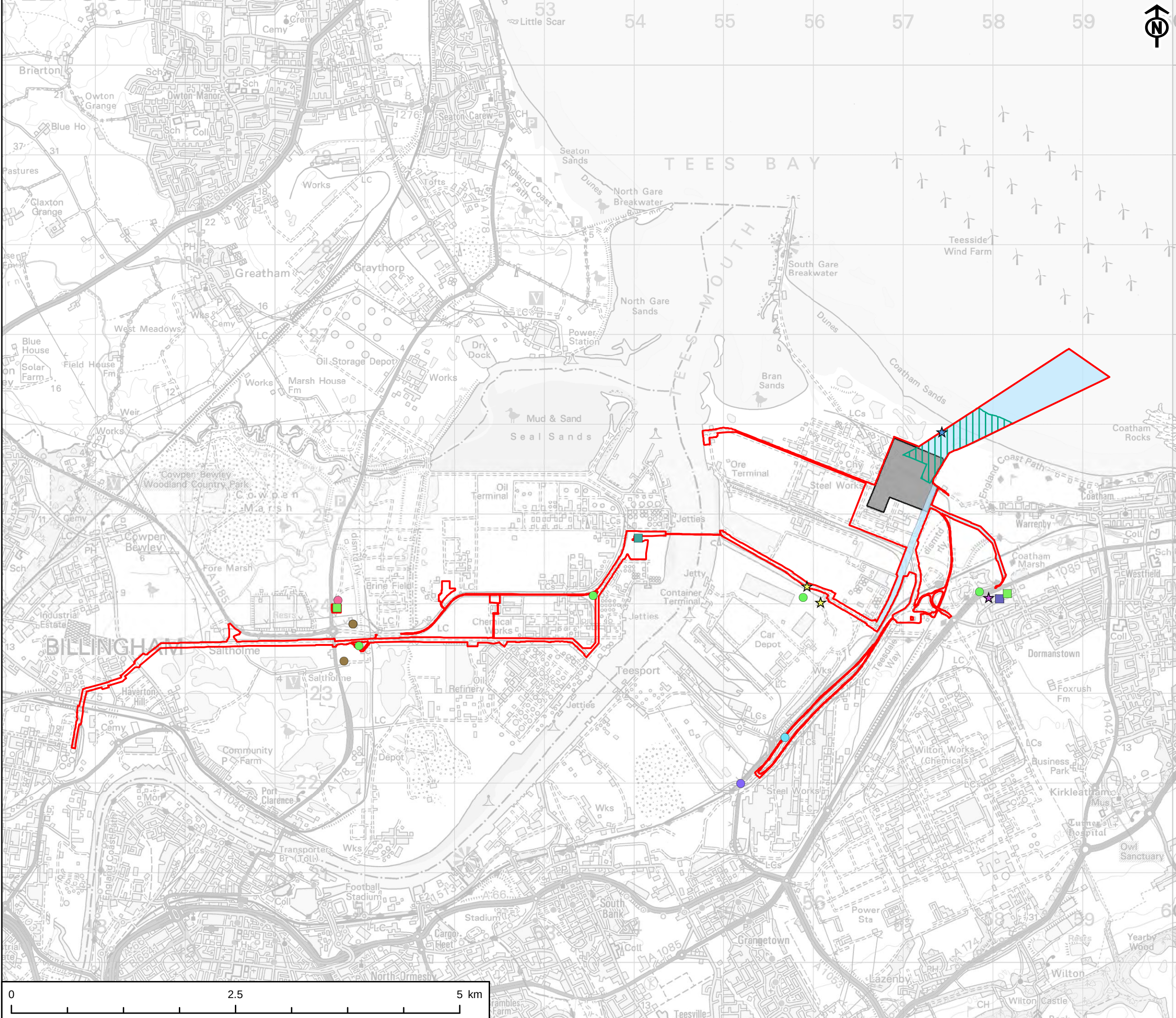
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - COMAH Site
 - NIHHS Site
 - Planning Hazardous Substance Consent

TITLE
FIGURE 10-9
HAZARDOUS

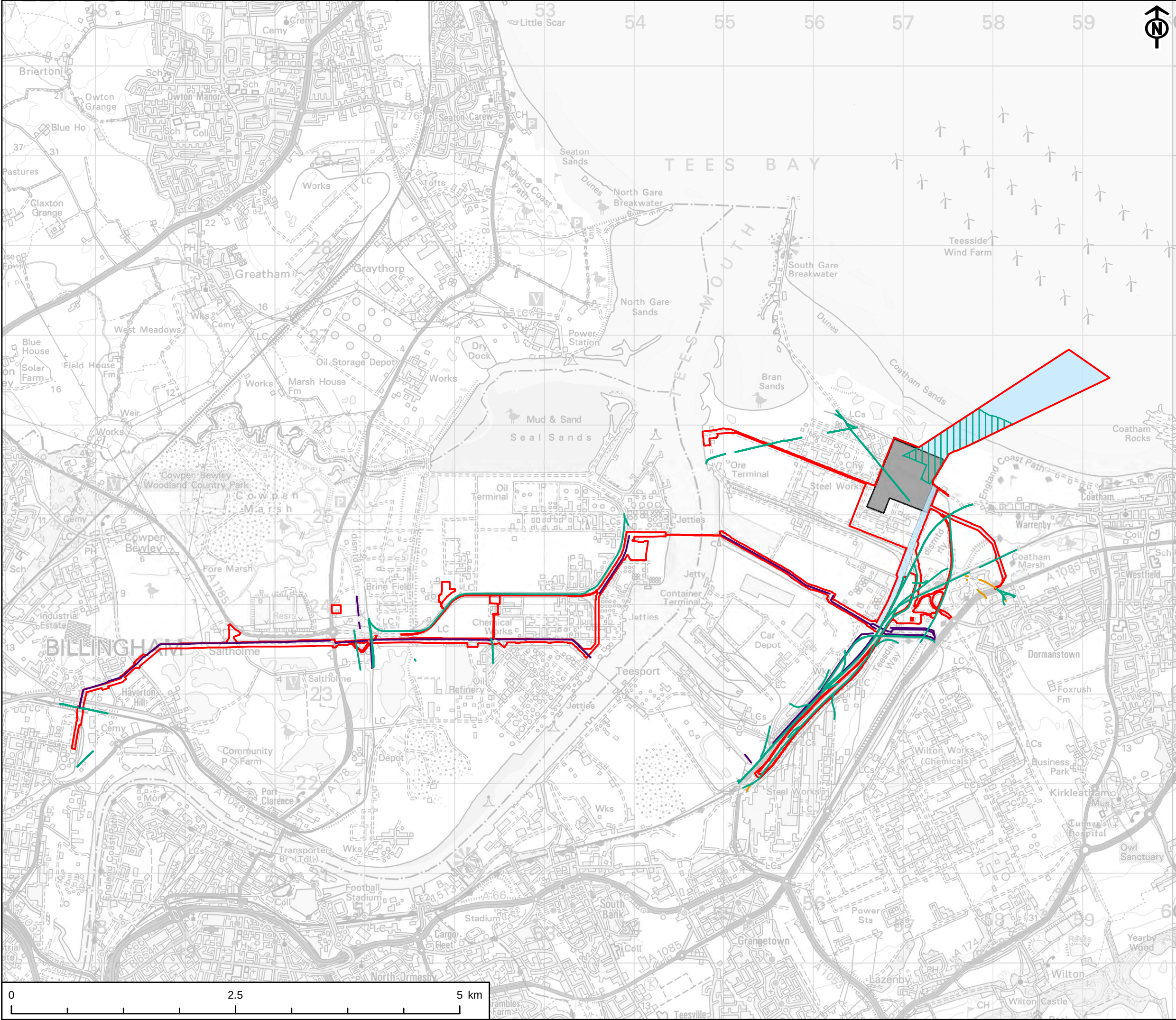
REFERENCE
NZT_250121_ES_10-9_v5

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
- Contaminated Land Use
- Chemical manufacturing general
 - Clay bricks & tiles [manufacture]
 - Electricity production & distribution [inc large transformers]
 - Factory or works - use not specified
 - Gas manufacture & distribution
 - Heap, unknown constituents
 - Military Land
 - Outfalls
 - Quarrying of sand & clay, operation of sand & gravel pits
 - Road haulage
 - Technical & environmental testing & analysis



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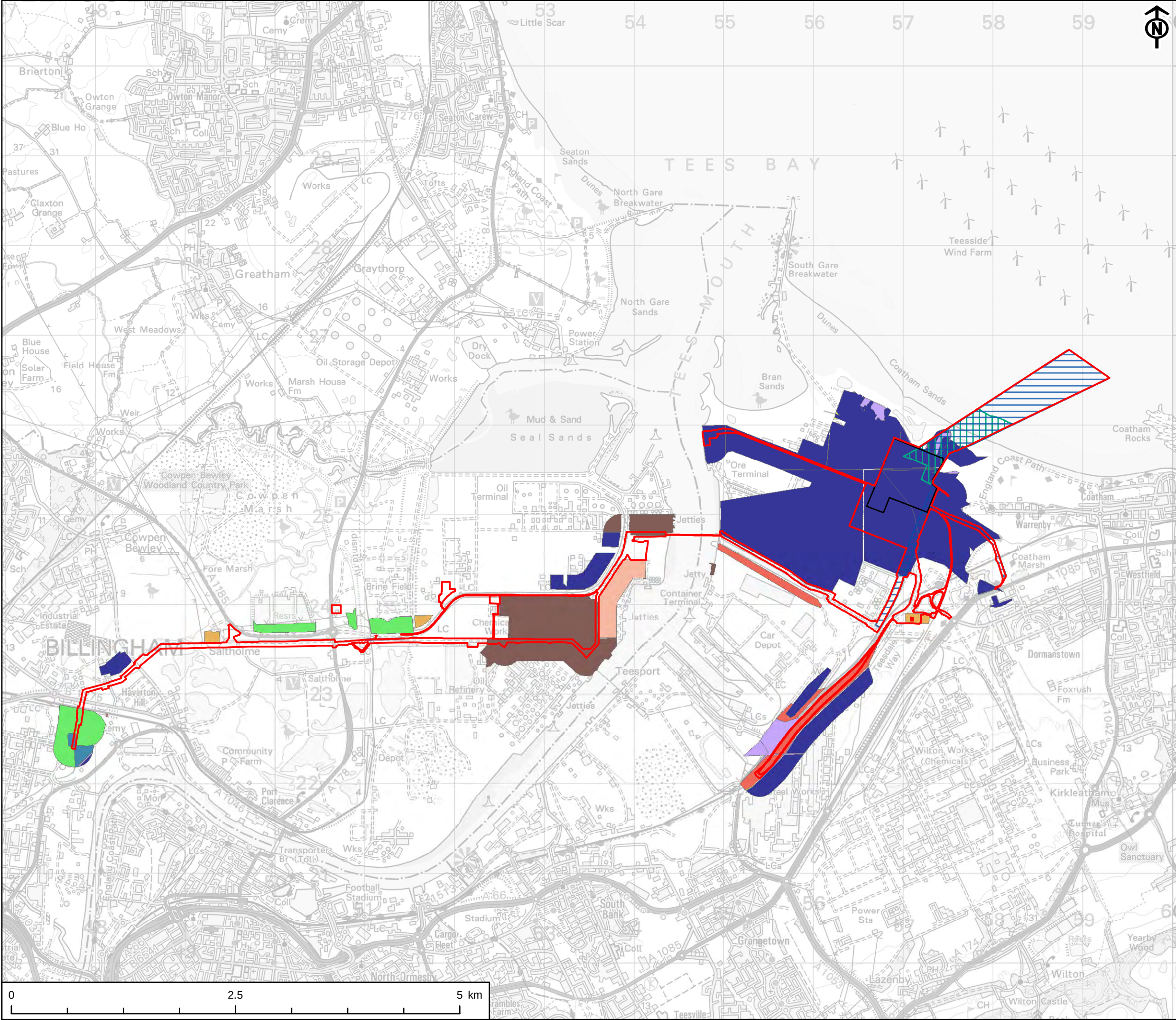
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Contaminated Land Use
 - Mineral railway
 - Pipelines [transport via]
 - Railways

TITLE
FIGURE 10-11
CONTAMINATED LAND - LINE

REFERENCE
NZT_250121_ES_10-11_v5

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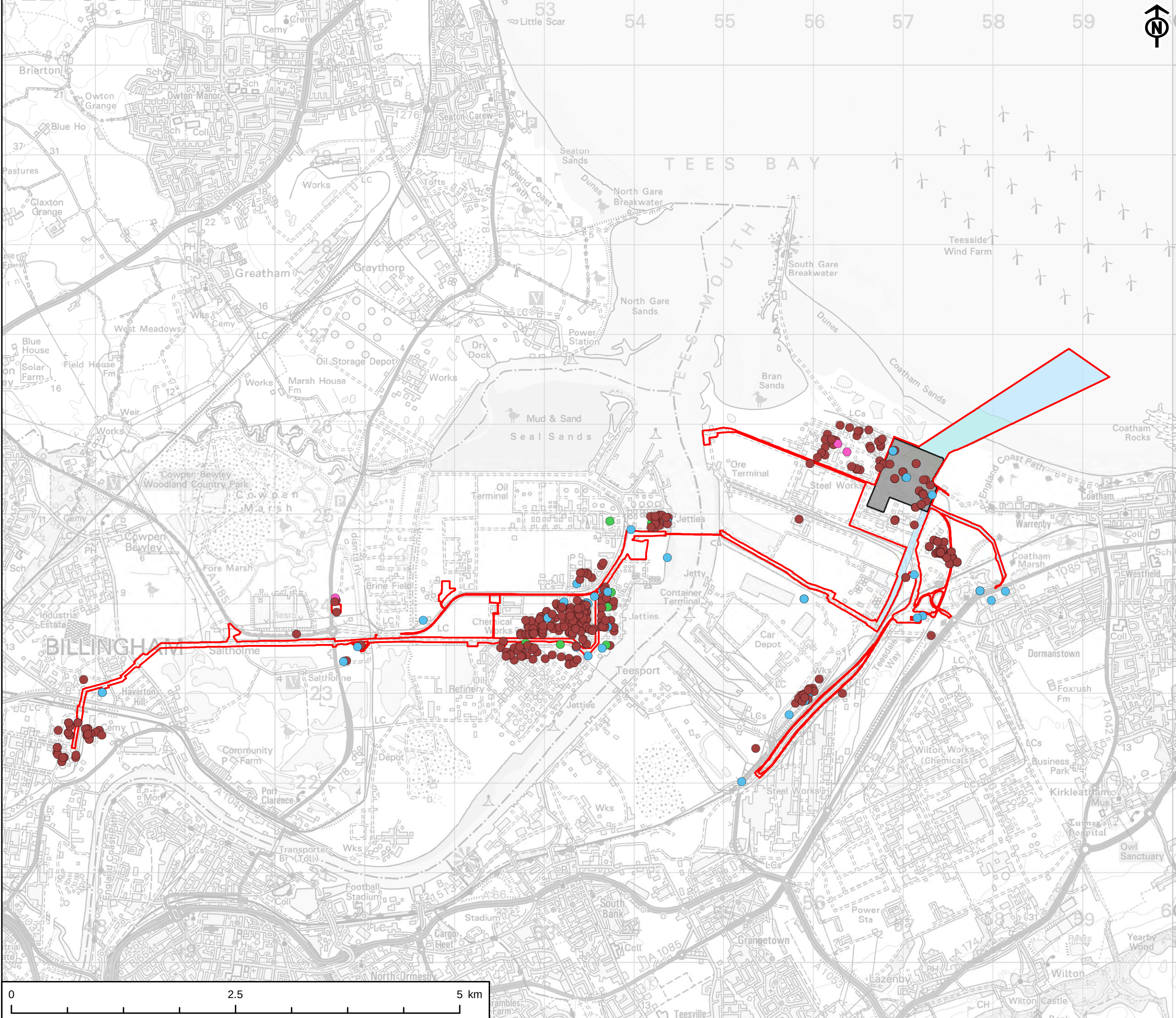
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- KEY**
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Contaminated Land Use**
 - Chemical manufacturing general
 - Clay bricks & tiles [manufacture]
 - Electricity production & distribution [inc large transformers]
 - Factory or works - use not specified
 - Metal casting/foundries
 - Military Land
 - Oil, petroleum & gas refining & storage
 - Quarrying of sand & clay, operation of sand & gravel pits
 - Railways
 - Road haulage
 - Transport support & cargo handling

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APPLICANTS
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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
- Historic Tank
- Electrical Sub Station Facilities
 - Gas Industry Facilities
 - Oil Industry Facilities
 - Tanks

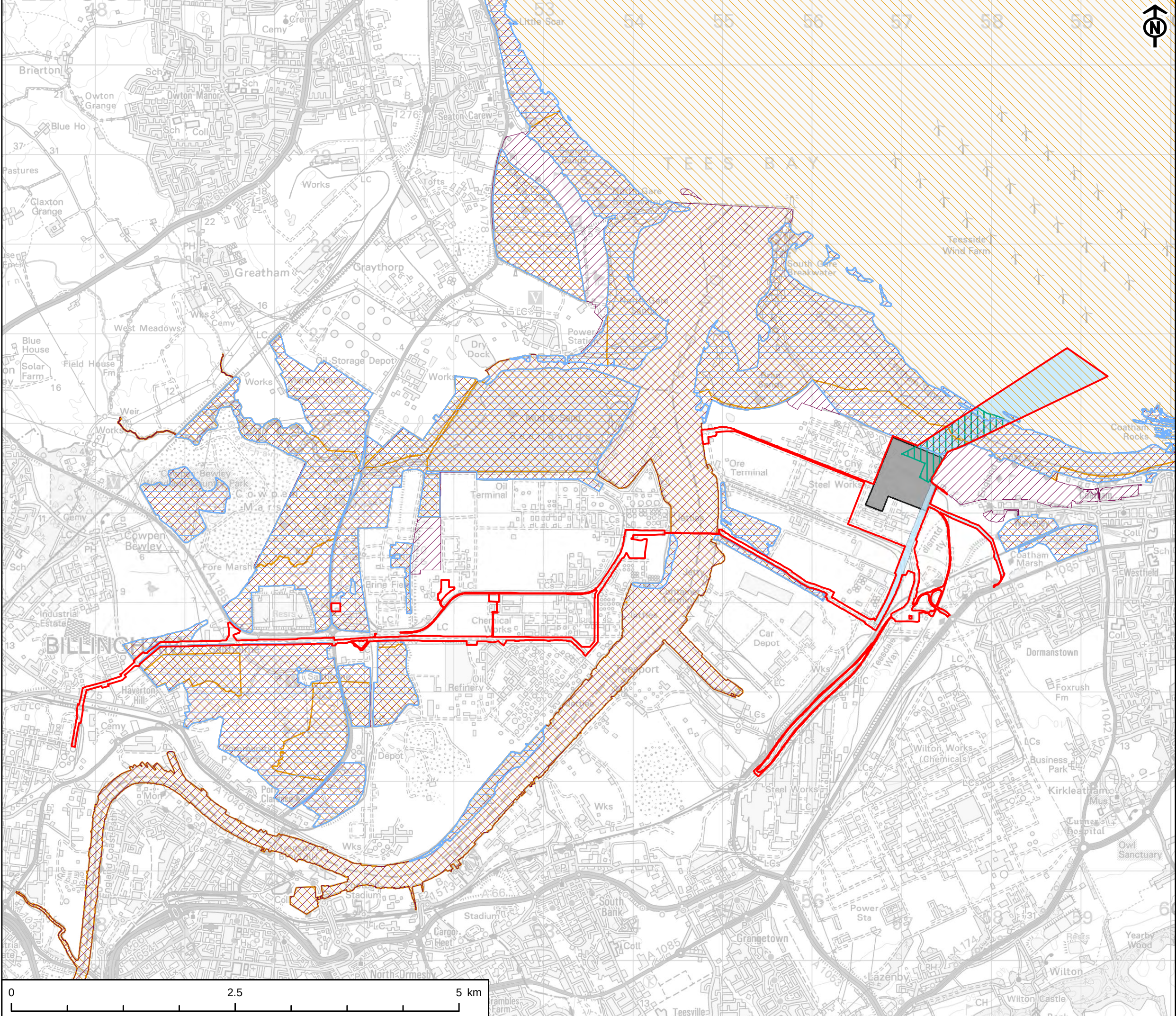
TITLE
FIGURE 10-13
HISTORIC TANKS

REFERENCE
NZN_250121_ES_10-13_v5

SHEET NUMBER
1 of 1

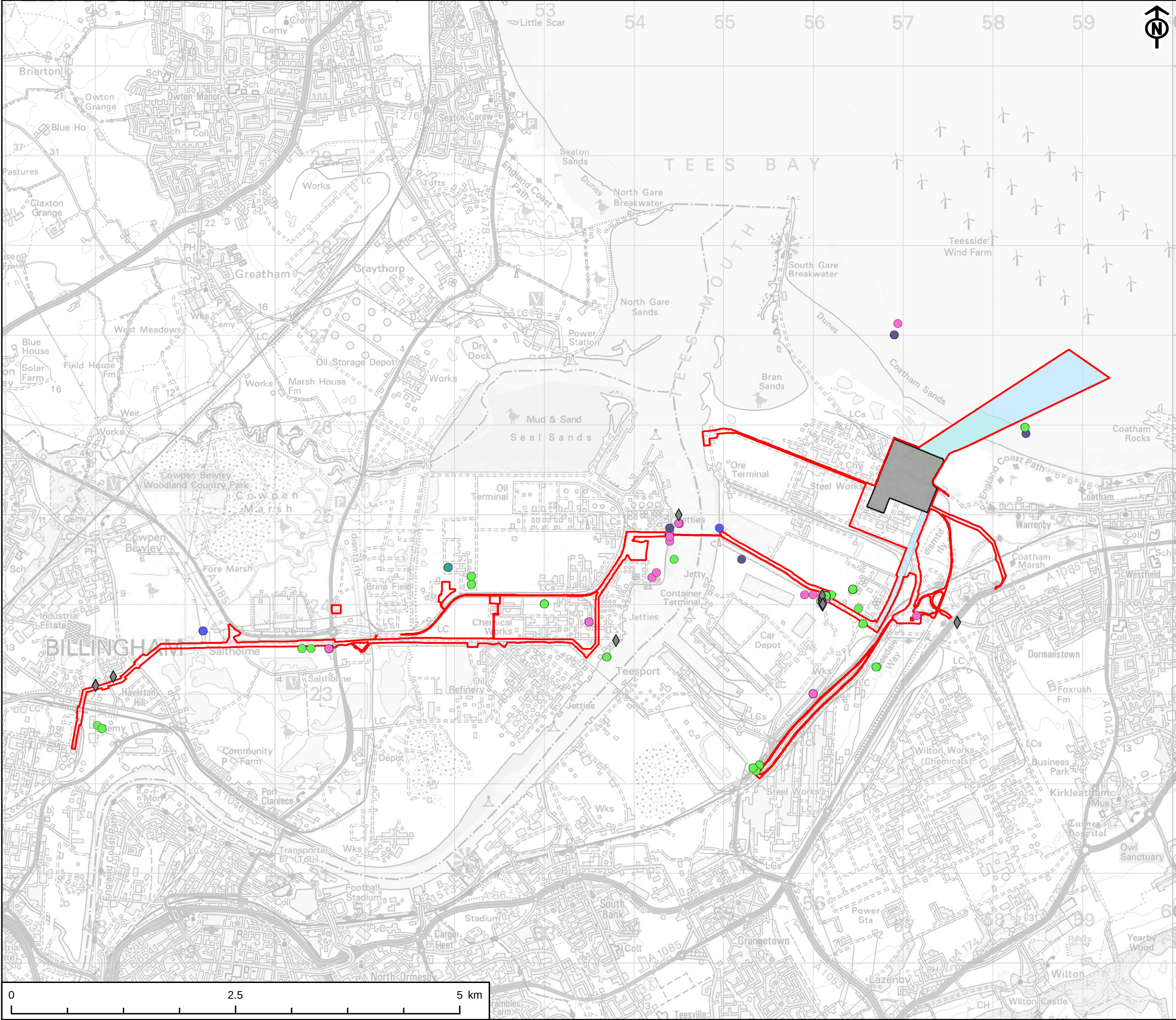
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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Site of Special Scientific Interest
 - Special Protection Area
 - Ramsar Site

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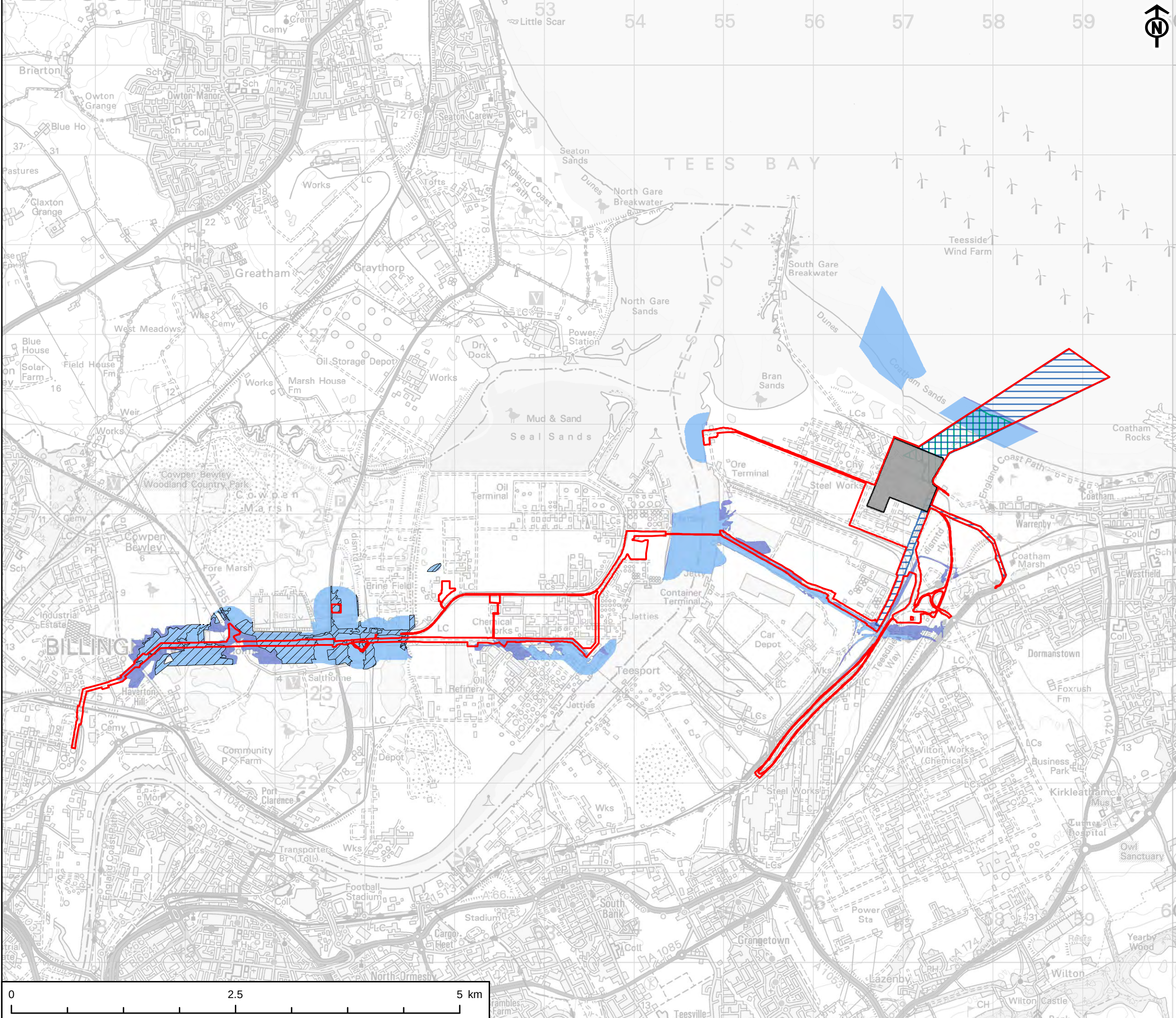
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Pollution Incident to Controlled Waters

- Discharge Consent
- Miscellaneous Discharge
 - Sewage Discharge
 - Sewerage Discharge
 - Trade Discharge
 - Unknown Discharge
 - Water Industry Discharge

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APPLICANTS
NZN POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Area Benefiting from Flood Defences
 - Flooding from Rivers or Seas without Defences (Zone 3)
 - Extreme Flooding from Rivers or Seas without Defences (Zone 2)

TITLE
FIGURE 10-16
FLOOD RISK

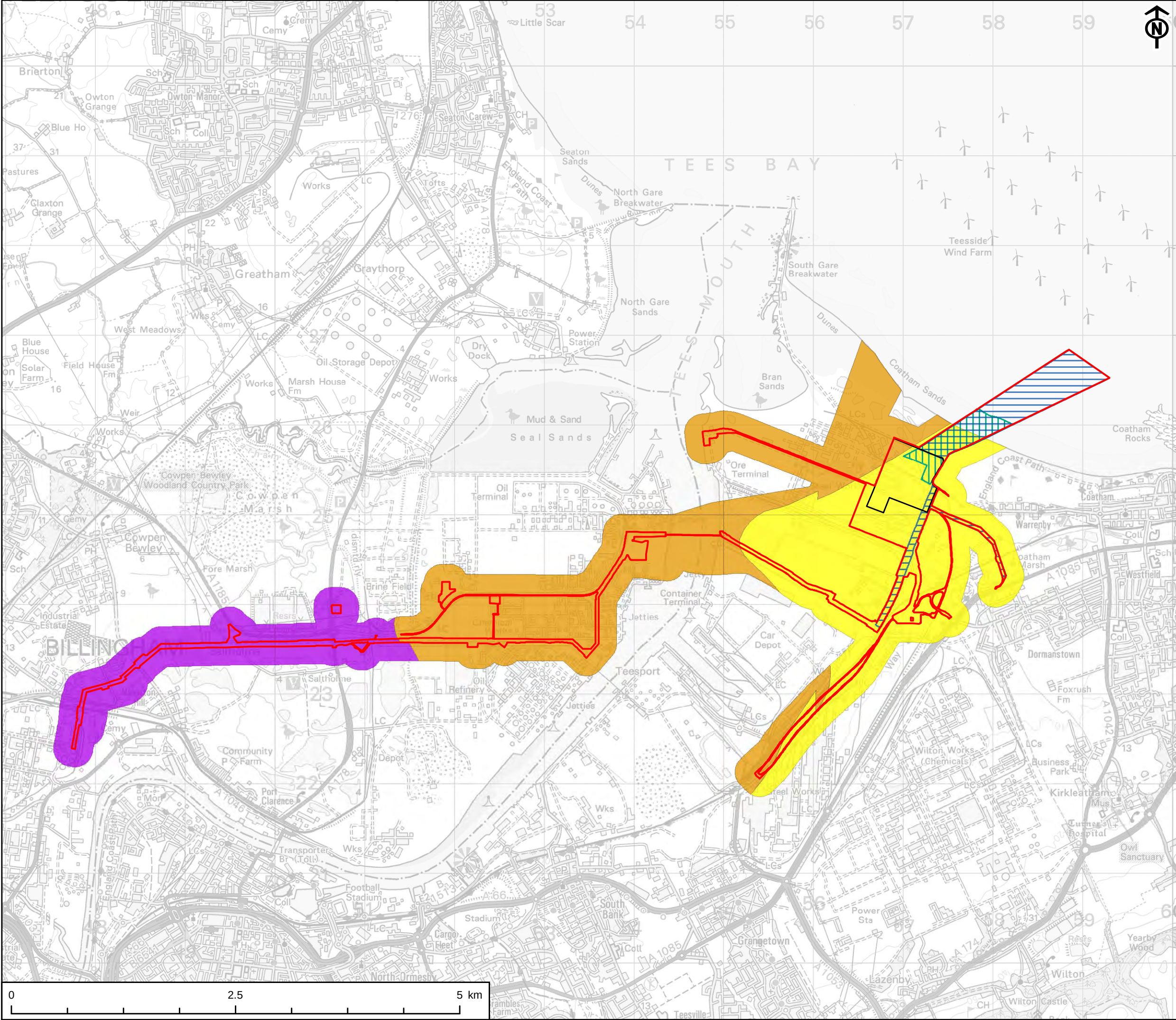
REFERENCE
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DATE
21/01/2025

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - BGS Bedrock Aquifer
 - Principal Aquifer
 - Secondary Aquifer - B
 - Secondary Aquifer - Undifferentiated

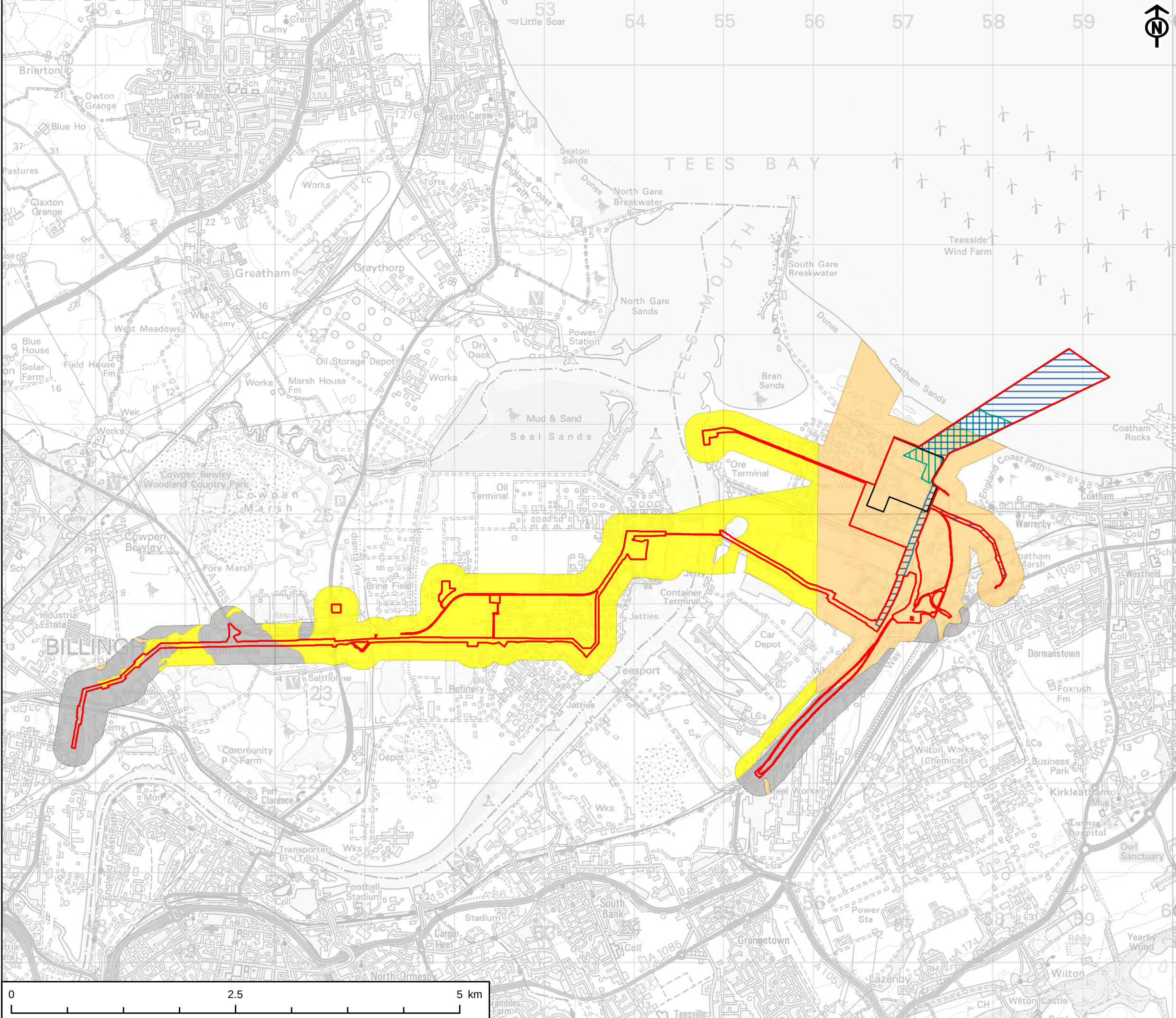
TITLE
FIGURE 10-17
BEDROCK AQUIFER

REFERENCE
NZT_250121_ES_10-17_v5

SHEET NUMBER
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DATE
21/01/2025

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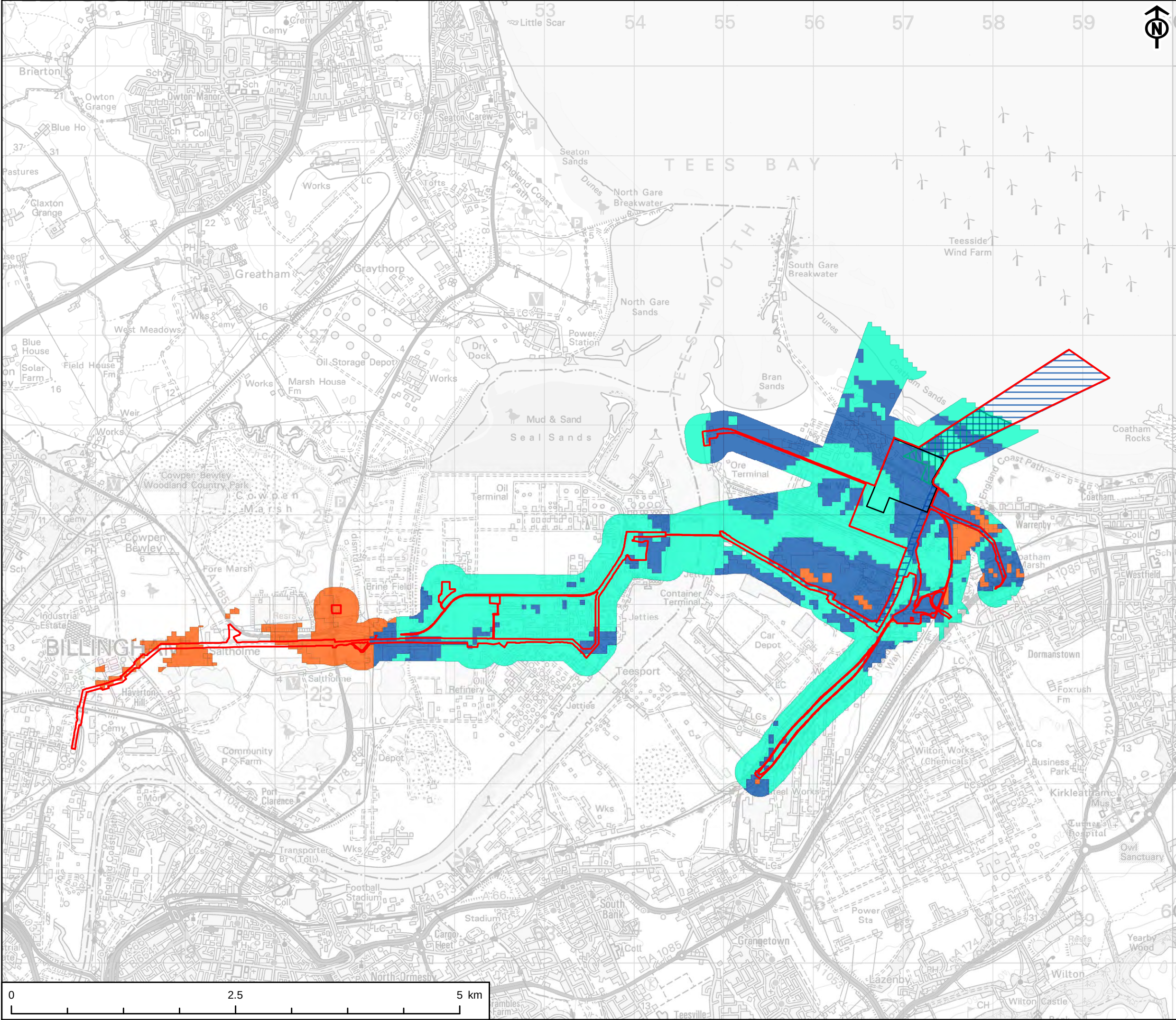
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - BGS Superficial Aquifer
 - Secondary Aquifer - A
 - Secondary Aquifer - Undifferentiated
 - Unproductive Strata

TITLE
FIGURE 10-18
SUPERFICIAL AQUIFER

REFERENCE
NZT_250121_ES_10-18_v5

SHEET NUMBER
1 of 1

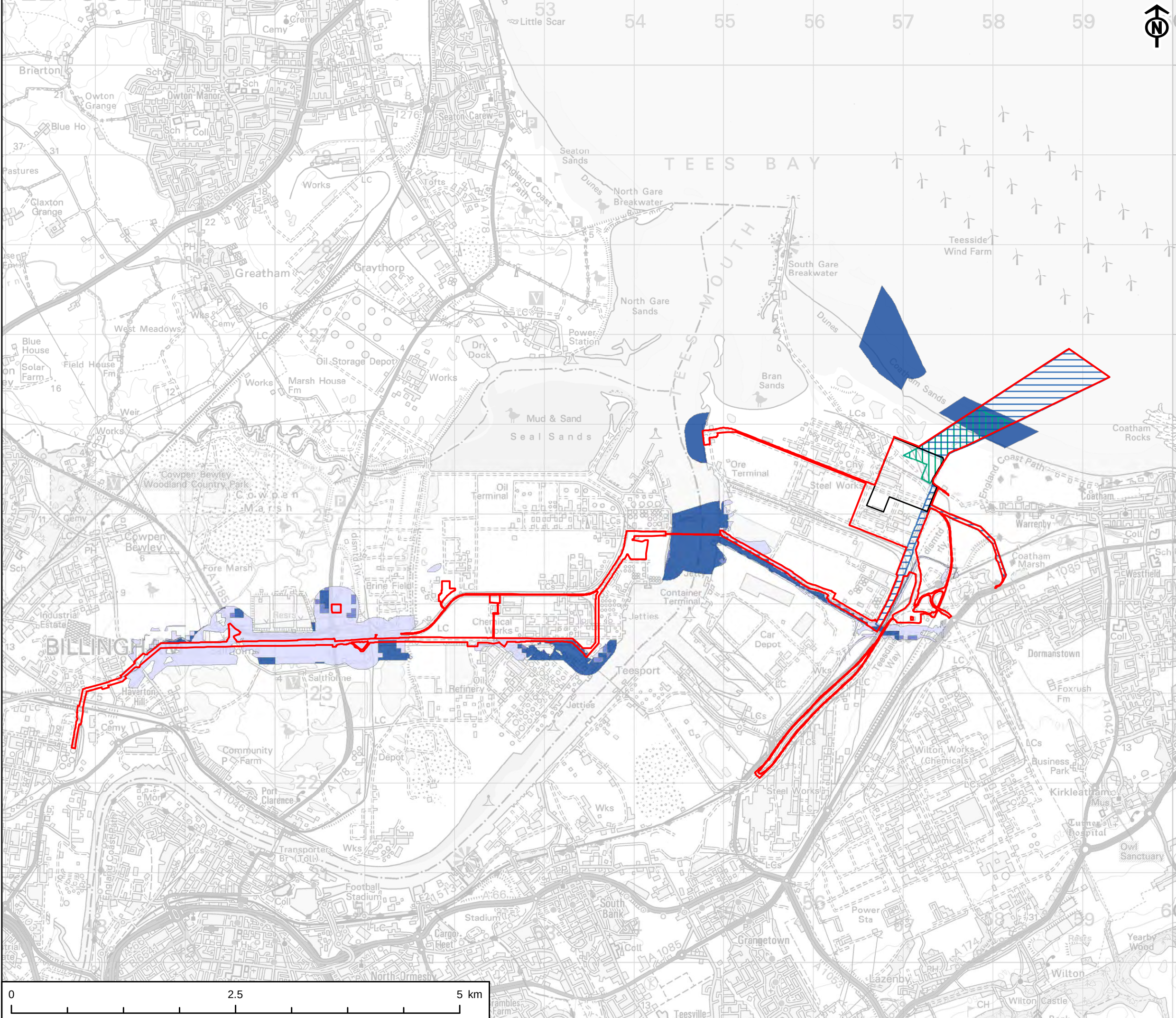
DATE
21/01/2025



- KEY**
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - BGS Flood Susceptibility
 - Limited Potential for Groundwater Flooding to Occur
 - Potential for Groundwater Flooding of Property Situated Below Ground Level
 - Potential for Groundwater Flooding to Occur at Surface

Project Management Initials: IC Designer: LC Checked: AR Approved: CC

Scale @ A3 1:40,000



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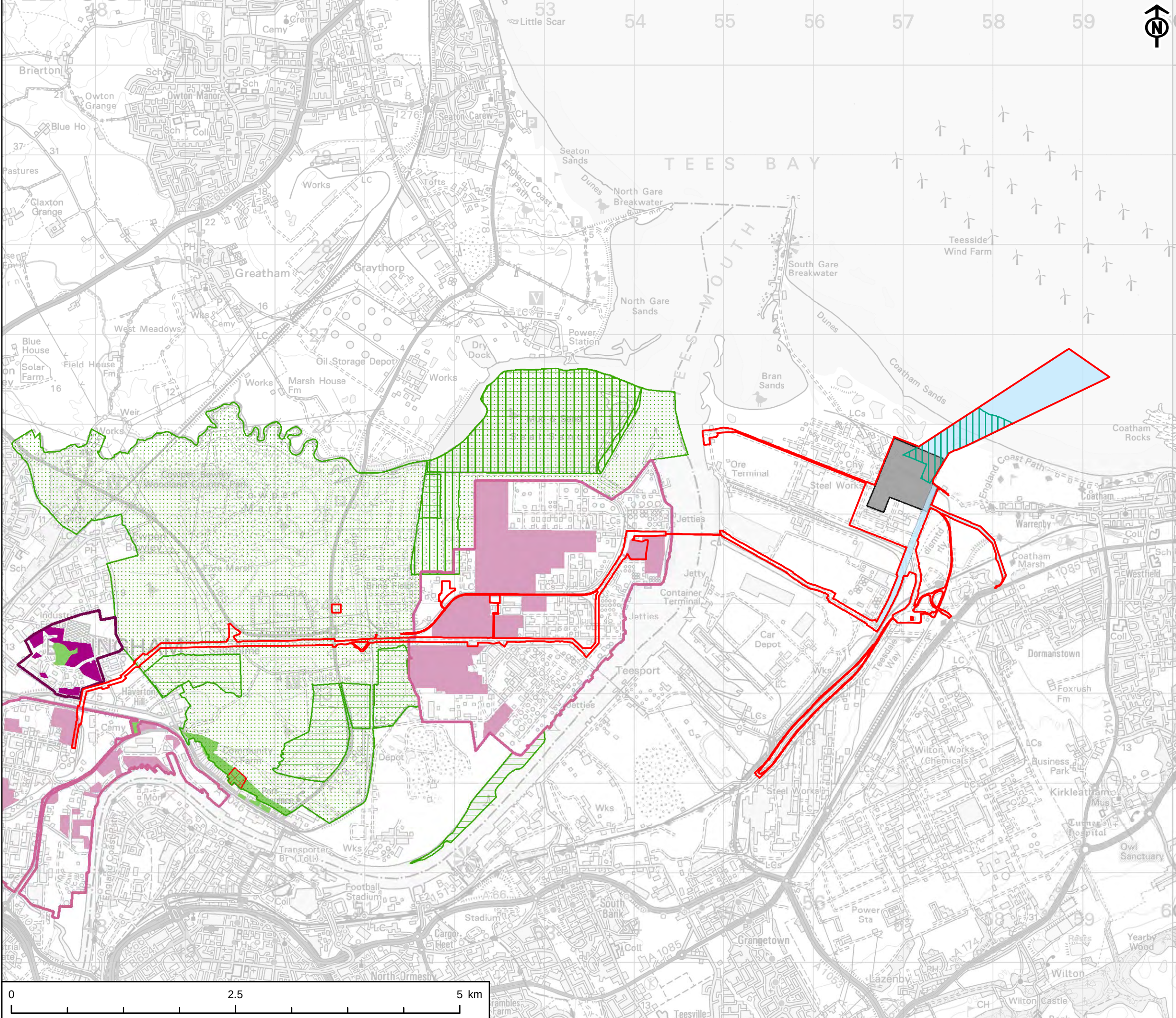
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Risk of Flooding from Rivers and Seas
 - High
 - Medium
 - Low

TITLE
FIGURE 10-20
RISK OF FLOODING FROM RIVERS AND SEAS

REFERENCE
NZN_250121_ES_10-20_v5

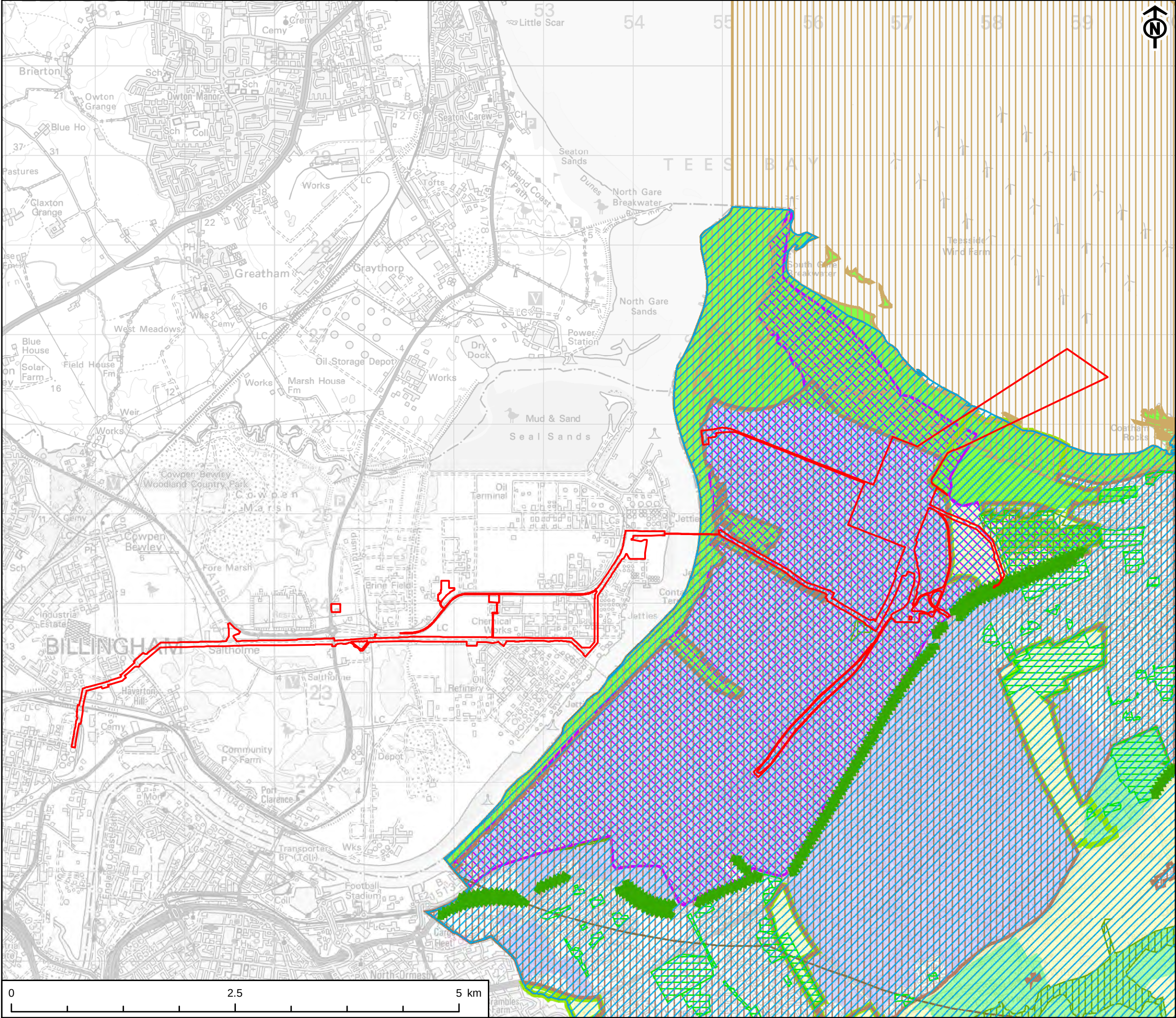
SHEET NUMBER
1 of 1

DATE
21/01/2025

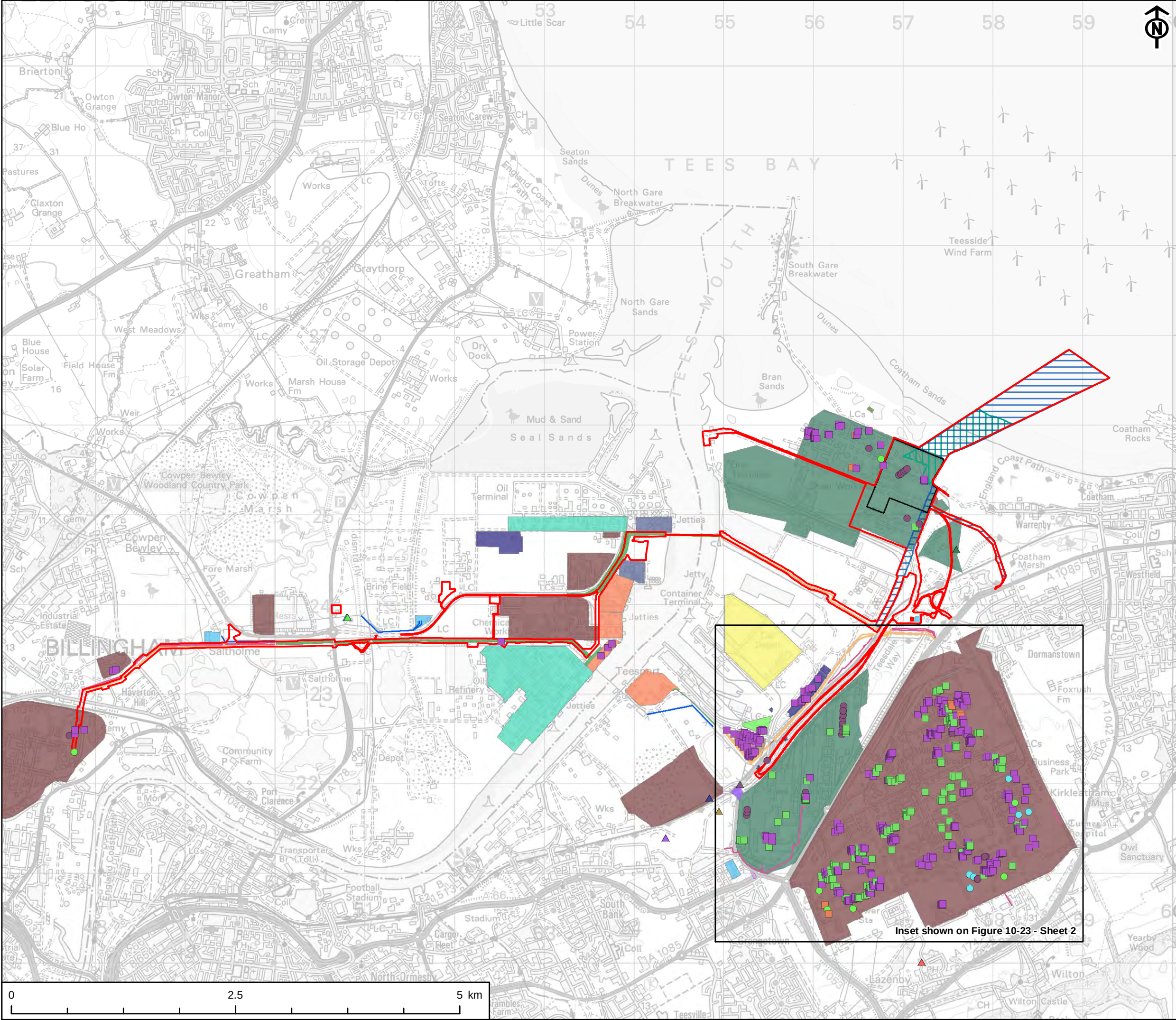


- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Stockton-on-Tees Local Plan
 - Specialist Employment Allocations - SD4 EG4
 - Specialist Use Locations - SD4 EG4
 - General Employment Allocations - SD4 EG1
 - General Employment Locations - SD4 EG1
 - Playing Fields - TI2
 - Countryside - SD3 SD4 SD5
 - Open Space - SD5 ENV6
 - Internationally Designated Sites (SPA and Ramsar) - SD5 ENV5
 - Nationally Designated Sites (SSSI) - SD5 ENV5

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KEY	
	Site Boundary
	N 4 6km Special Protection Areas (SPA) Buffer Zone
	LS 4 & ED 6 South Tees Development Corporation
	SD 6 30km wind farm safeguarding area for Durham Tees Valley Airport
	N 4 Local Wildlife Sites (LWS)
	N 2 Strategic Landscape Areas
	SD 3 Development Limits
	N 4 Sites of Special Scientific Interest (SSSI)
	N 4 Special Protection Areas (SPA)
	ED 6 Protecting Employment Areas
	N 3 Primary Open Spaces
	N 2 Green Wedges
	N 1 Restoration Landscape Areas
	N 1 Sensitive Landscape Areas



PROJECT
NET ZERO TEESIDE PROJECT



APPLICANTS
NZN POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline

- | | |
|---------------|--------------------|
| Chimney | Disused Salt Works |
| Cooling Tower | Disused Works |
| Flare Stack | Engineering Works |
| Possible Tank | Iron Works |
| Tank | Sawmill |
| Tanks | Slag Wool Works |
| Brick Field | Tar Macadam Works |

- Pipeline
- Pipelines
- Tunnel
- Electrical Transmission Line
- Fuel Depot
- Oil Depot
- Oil Refinery
- Oil Supply Terminal
- Petroleum Refinery
- Tank Farm
- Pipelines
- Tunnel
- Electrical Substation
- Power Station
- Works
- Chemical
- Iron & Steel
- Slag Works
- Works - Unknown

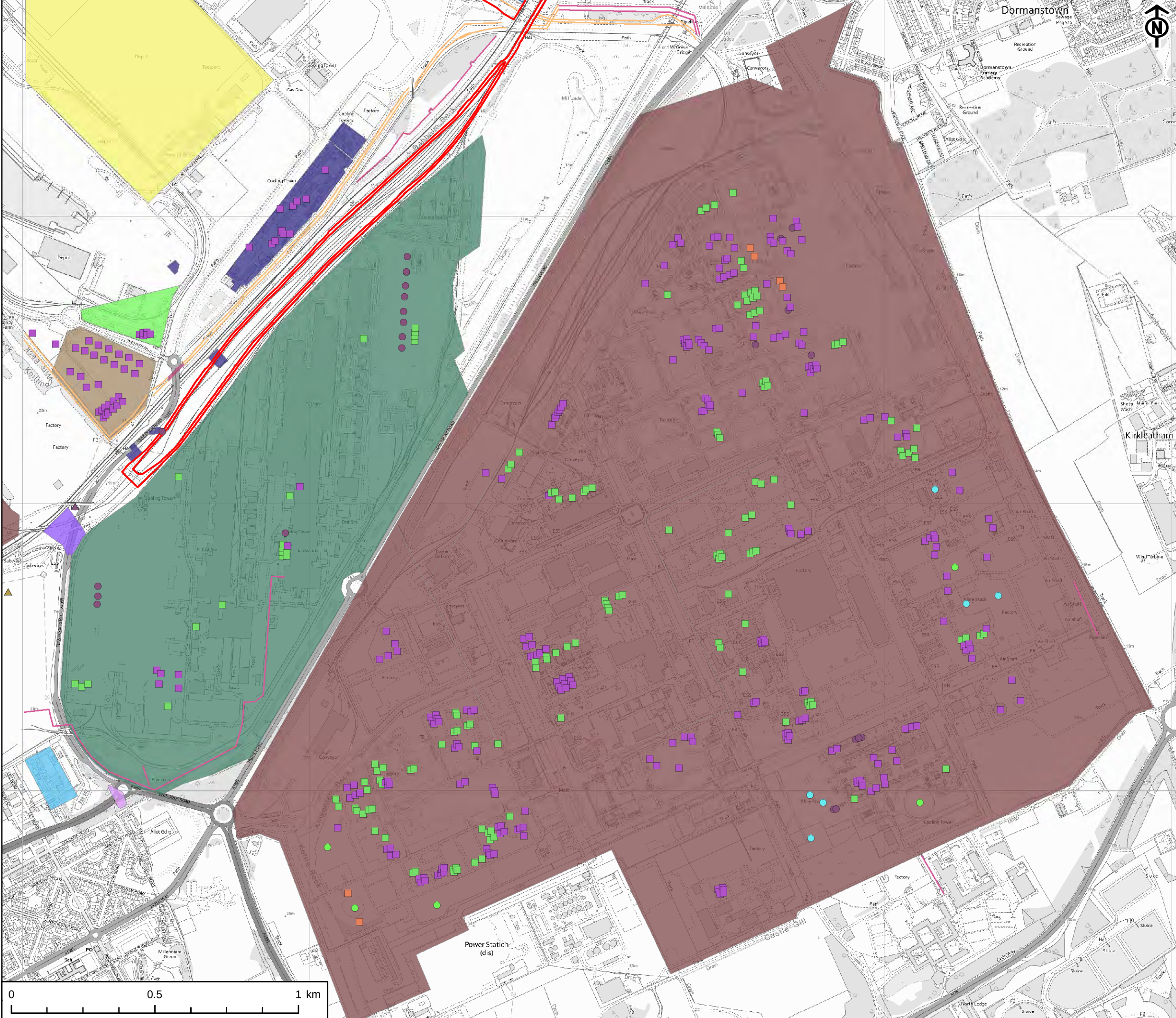
TITLE
FIGURE 10-23
HISTORICAL FEATURES 1

REFERENCE
NZN_250121_ES_10-23_v5

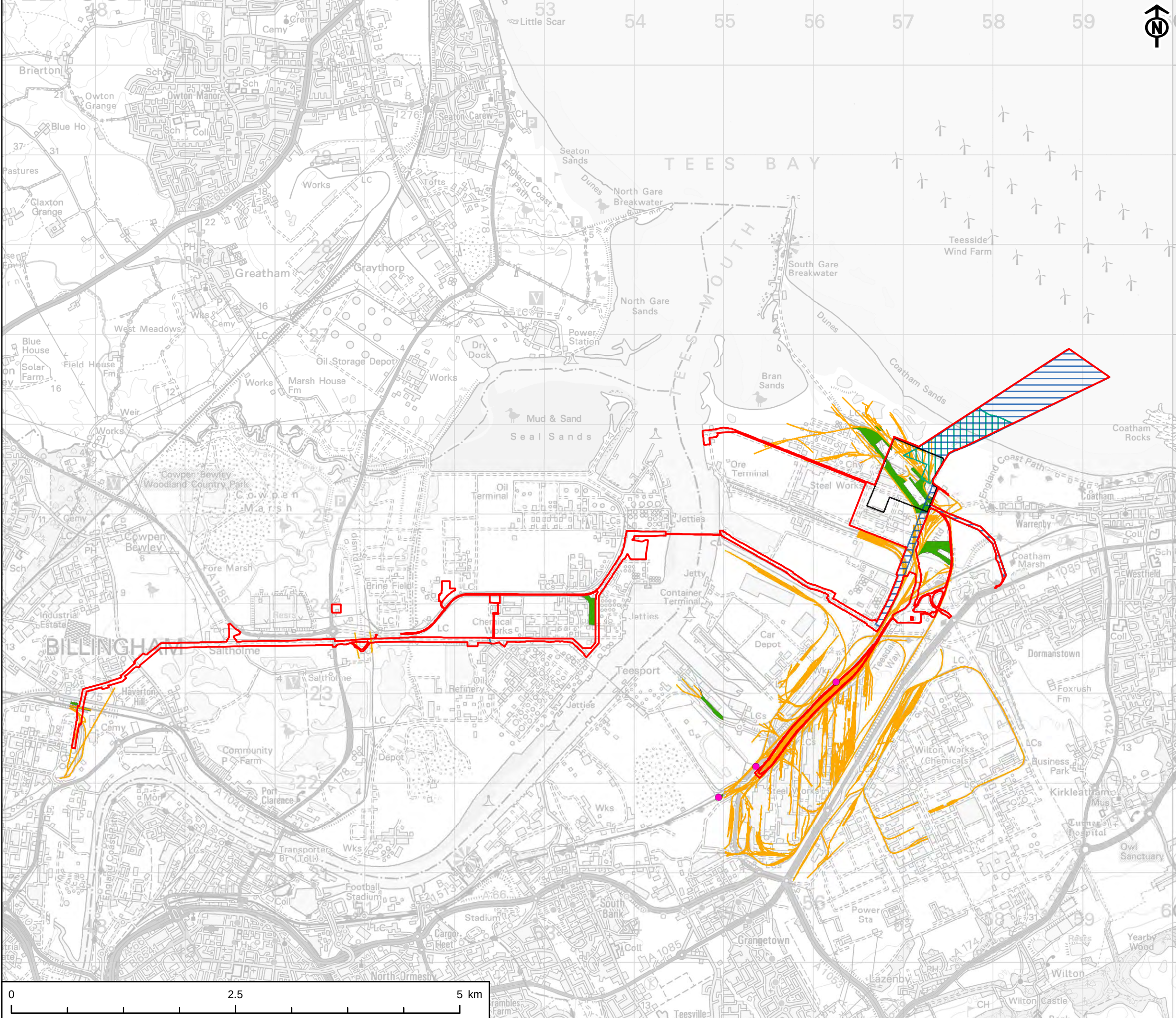
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1 of 4

DATE
21/01/2025

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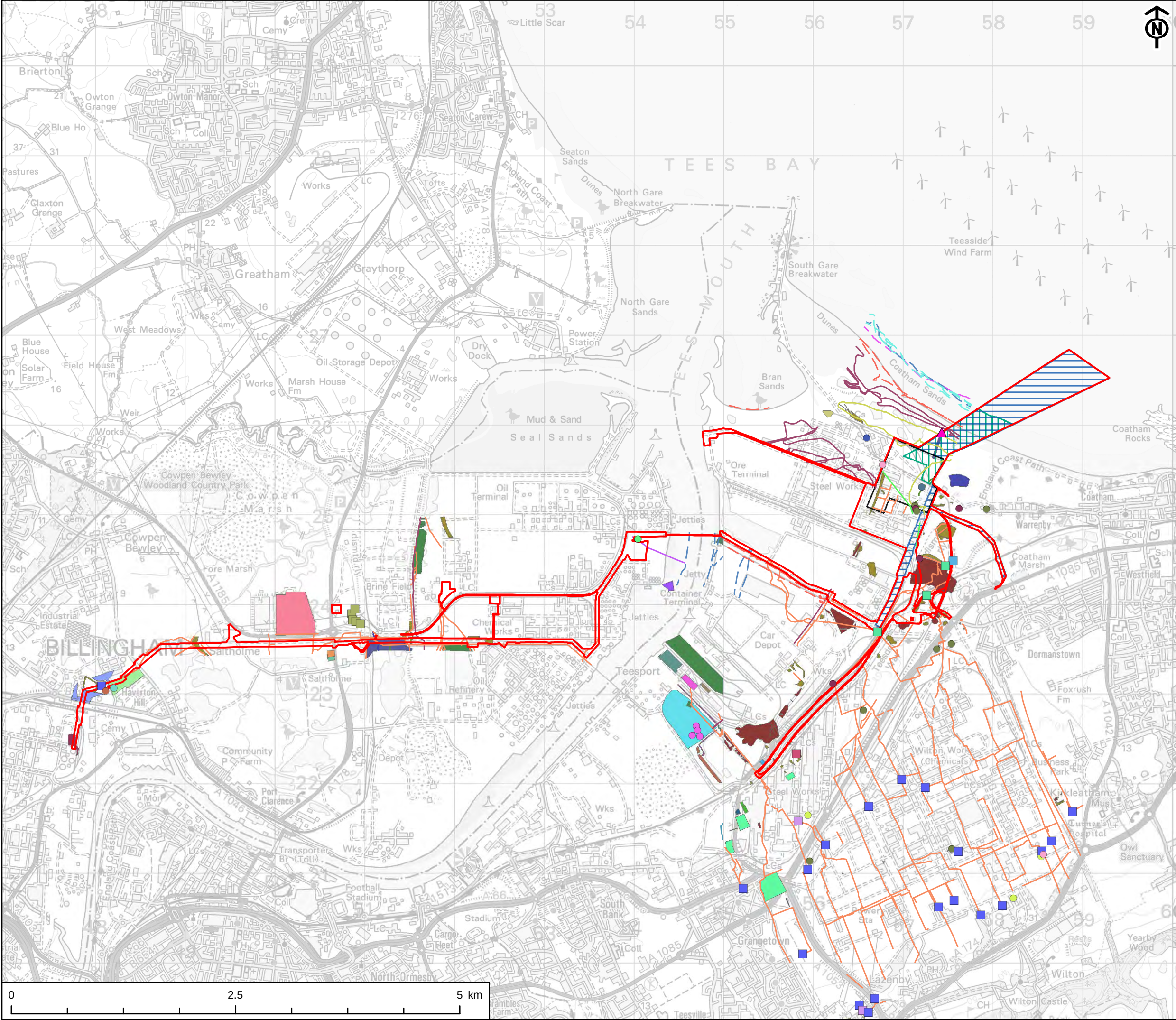


- KEY
- Site Boundary
 - Water Connection Corridors
 - Chimney
 - Cooling Tower
 - Flare Stack
 - Possible Tank
 - Tank
 - Tanks
 - Brick Field
 - Engineering Works
 - Pipeline
 - Pipelines
 - Oil Supply Terminal
 - Petroleum Refinery
 - Tank Farm
 - Tunnel
 - Electrical Substation
 - Power Station
 - Works
 - Chemical
 - Iron & Steel
 - Works - Unknown

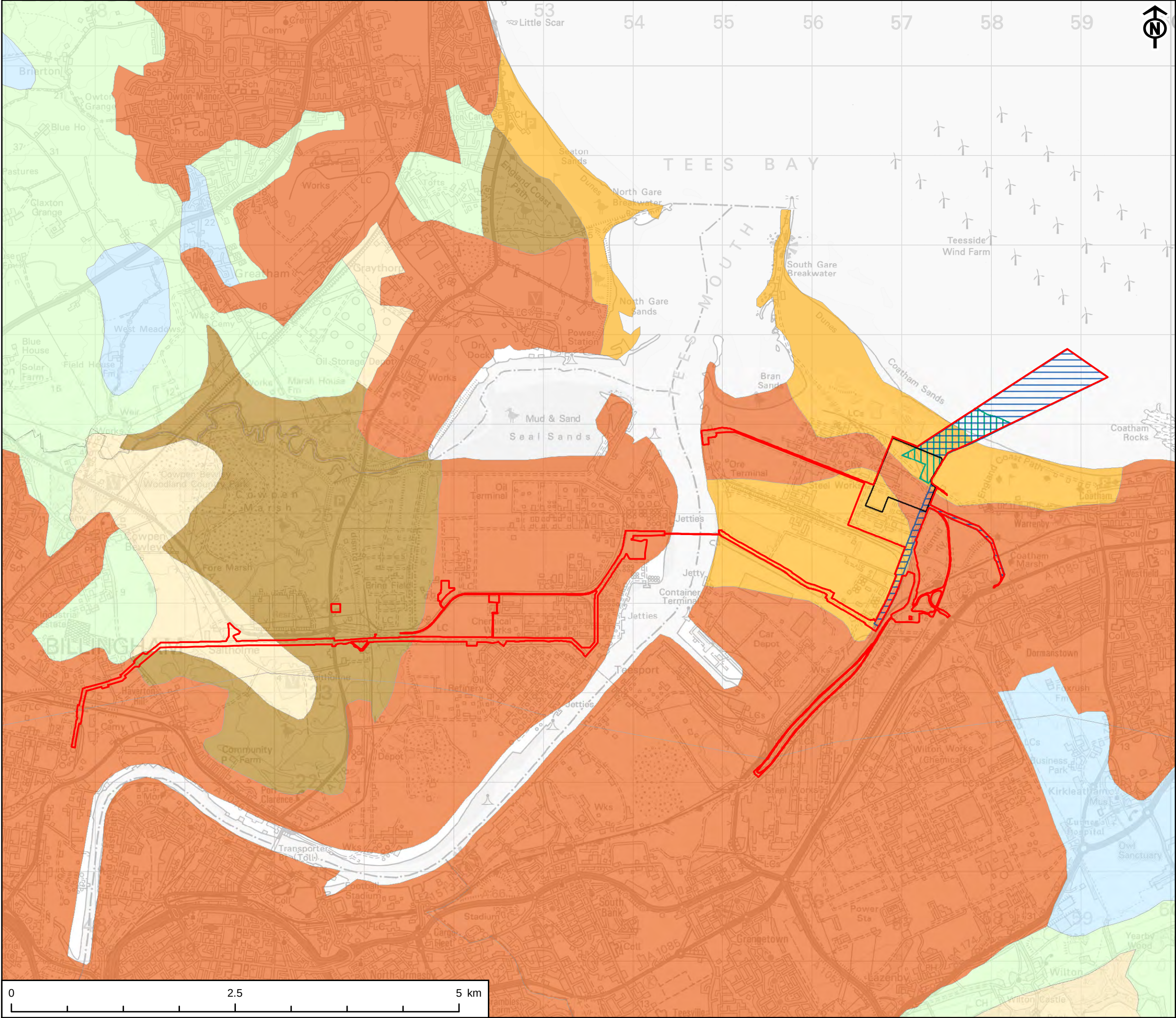


- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Railway Station
 - Railway
 - Tramways
 - Railway

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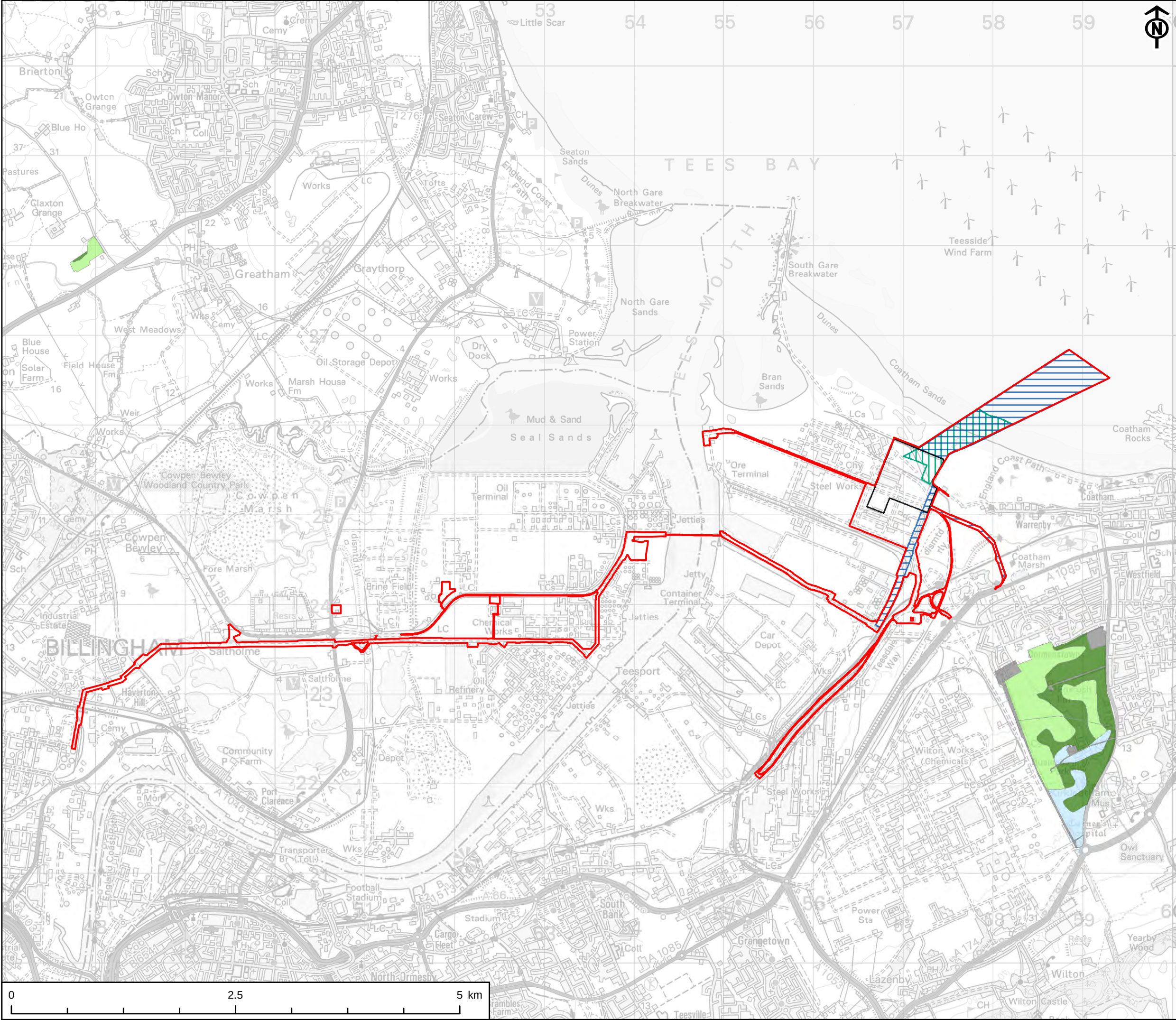


KEY	
	Site Boundary
	Power, Capture and Compressor Site
	Water Connection Corridors
	CO ₂ Export Pipeline
	Church
	Conveyor
	Council Offices
	Farm
	Hopper
	House
	Laboratory
	Meter House
	Pump
	Water Tower
	Butts
	Brine Will
	Issues/Rises/Spring
	Pond
	Reservoir
	Sluice
	Well
	Beck
	Breakwater
	Channel
	Drain/Watercourse
	H.W.M.O.S.T.
	H.W.M.O.T.
	Headland
	L.W.M.O.S.T.
	L.W.M.O.T.
	Mean High Water
	Mean Low Water
	Mud / Sand Flats
	Allotment Gardens
	Brick Yard
	Depot
	Fire Station
	Recreation Ground
	Residential
	School
	Telephone Exchange
	Transit Shed
	Warehouse
	Infilled Land (non-water)
	Infilled Land (water)
	Battery
	Rifle Range
	Clay Pit
	Gravel Pit
	Sand Pit
	Waste management / processing facility
	Water
	Brine Reservoir
	Drain/Watercourse
	Muscle Bed
	Pond
	Reservoir



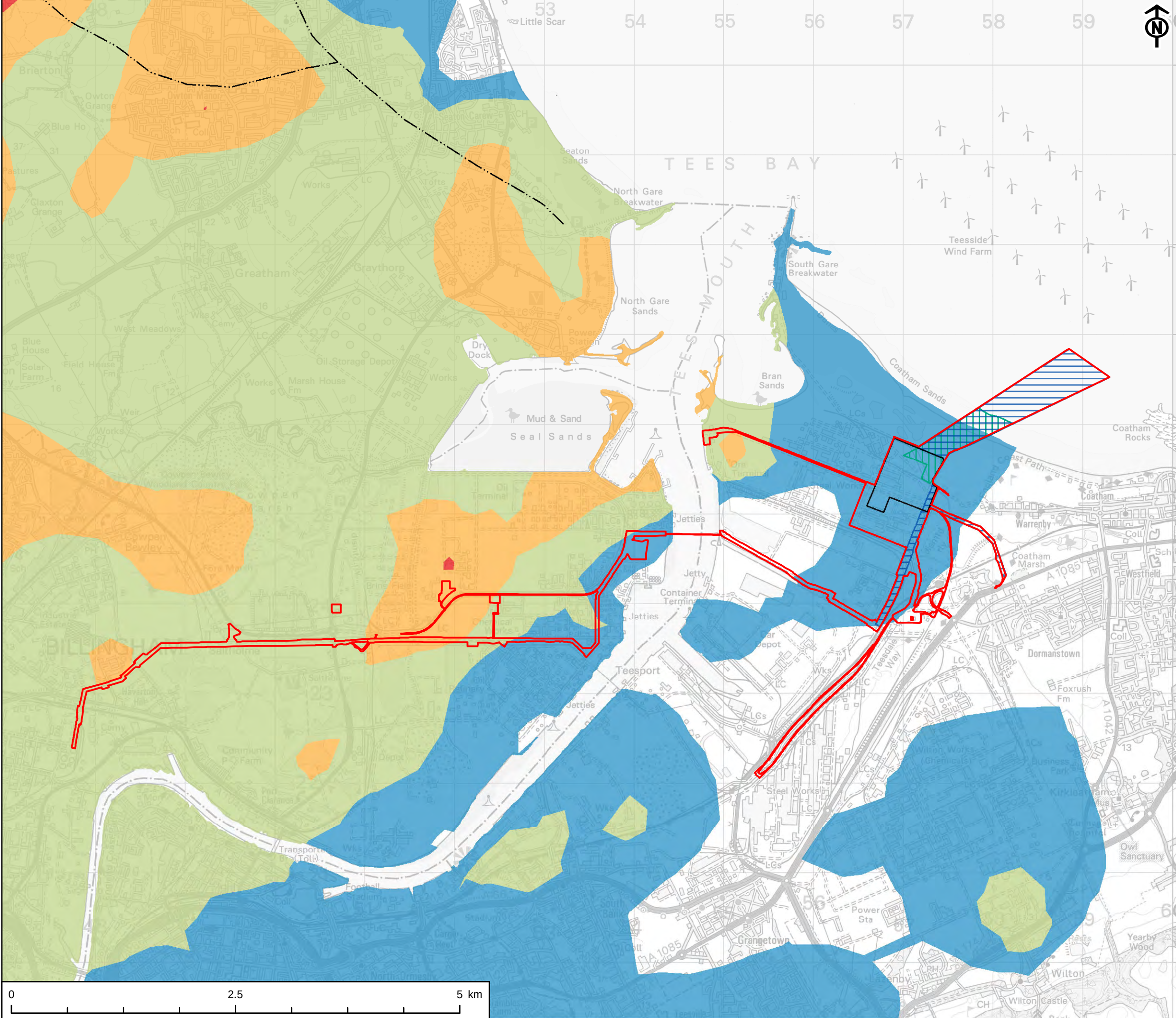
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Agricultural Land Classification - Provisional
 - Grade 2
 - Grade 3
 - Grade 4
 - Grade 5
 - Non Agricultural
 - Urban

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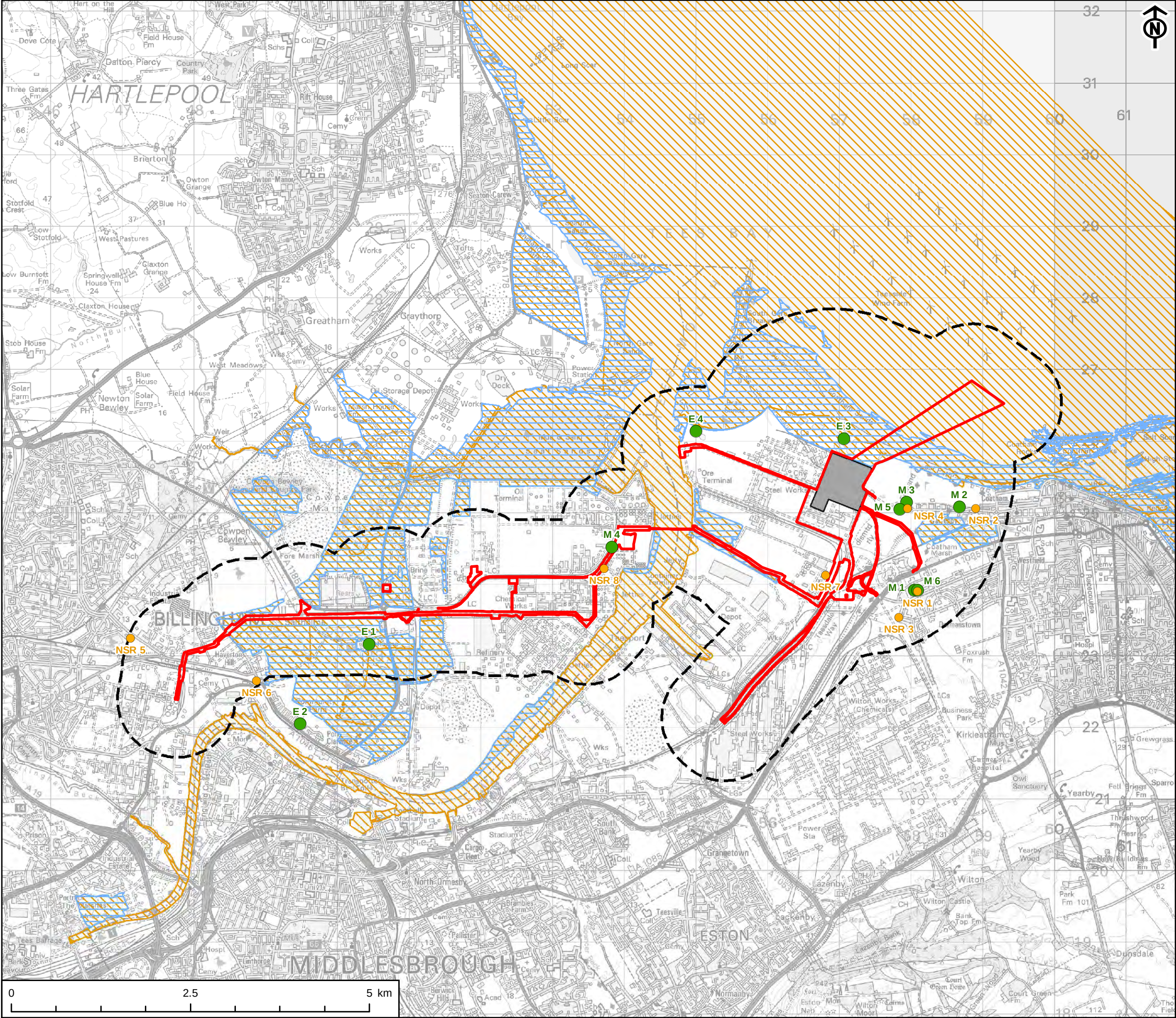
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Post 1988 Agricultural Land Classification
 - Grade 2
 - Grade 3a
 - Grade 3b
 - Other

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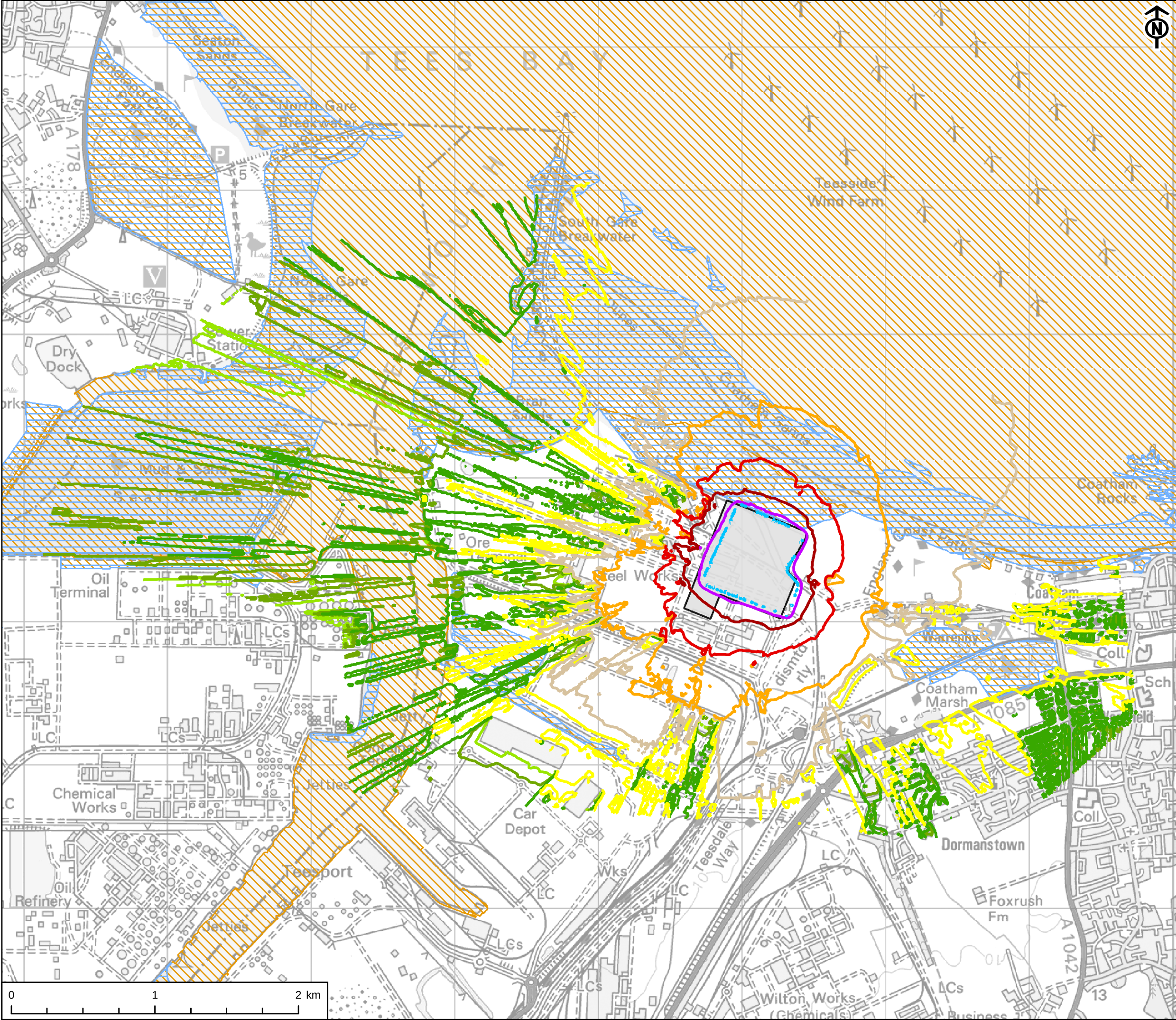


- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Water Connection Corridors
 - CO₂ Export Pipeline
 - Buried Valley Historic Centerline
- Modelled Thickness of Buried Valleys
- 10m - 20m
 - 20m - 30m
 - 30m - 40m
 - greater than 40m

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- KEY
- Site Boundary
 - Study Area
 - Power, Capture and Compressor Site
 - Ramsar Site
 - Special Protection Area
 - Noise Sensitive Receptor
 - Noise Monitoring Location



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APPLICANTS
NZT POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Power, Capture and Compressor Site
 - Ramsar Site
 - Special Protection Area
 - Piling $L_{Aeq, T}$ Contour (dB)
 - >= 30
 - >= 35
 - >= 40
 - >= 45
 - >= 50
 - >= 55
 - >= 60
 - >= 65
 - >= 70
 - >= 75

NOTE:
The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11A: Construction Noise Assessment Methodology

Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

TITLE
FIGURE 11-2
PCC SITE CONSTRUCTION PILING $L_{Aeq, T}$
NOISE CONTOUR

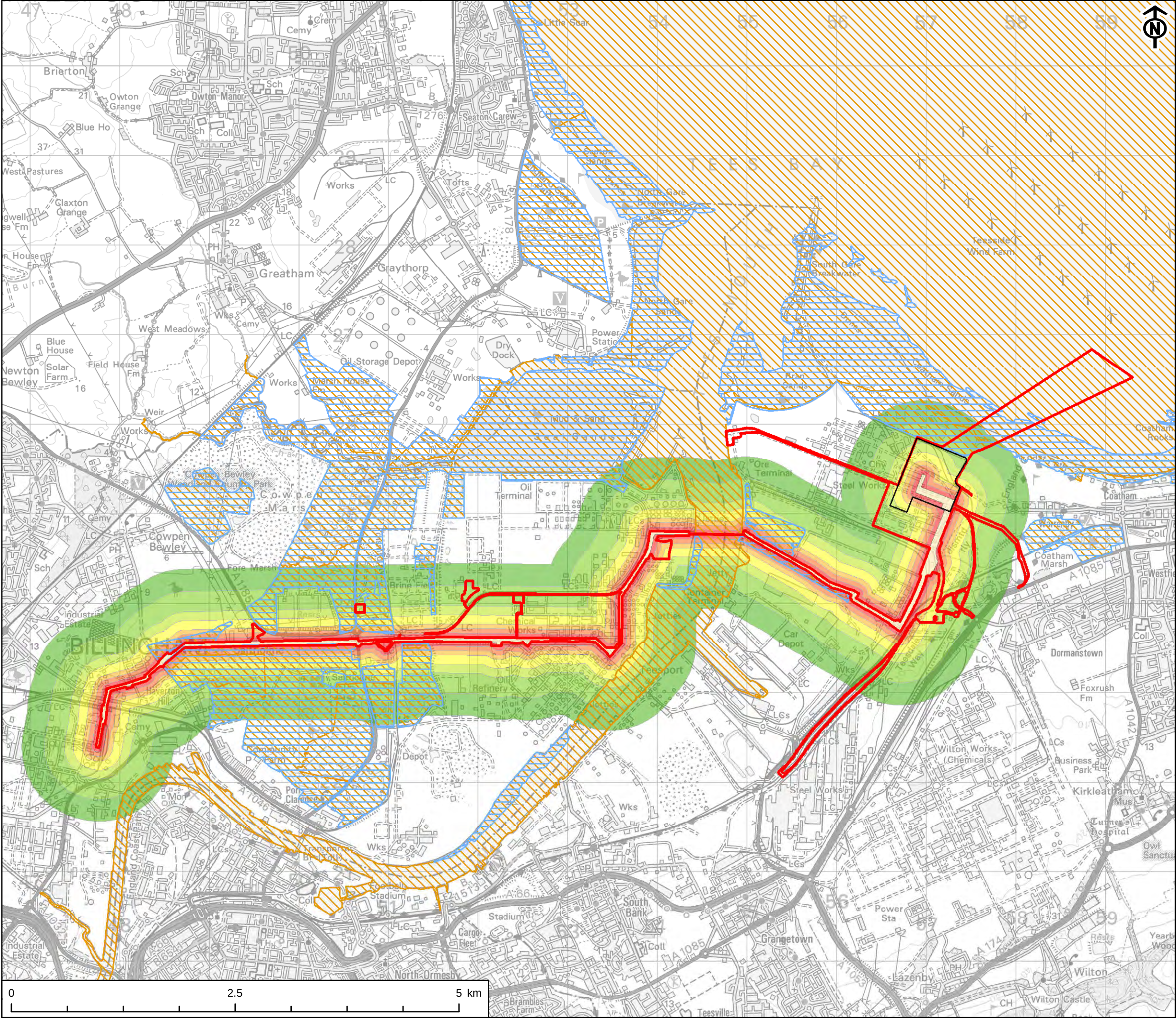
REFERENCE
NZT_250121_ES_11-2_v7

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1 of 1

DATE
21/01/25

Project Management Initials: IC Designer: LC Checked: AR Approved: SE

Scale @ A3 1:40,000



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APPLICANTS
NZT POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - CO₂ Gathering Network
 - Ramsar Site
 - Special Protection Area
 - CO₂ Gathering Network - Noise Distance Bands
- Distance (m) - Level $L_{Aeq, T}$ (dB) - Significance
- 50 - 69 - IECS Receptor Value
 - 100 - 62 - 10 dB above Saltholme measured daytime $L_{Aeq, T}$
 - 150 - 58 - 10 dB above Bran Sands measured daytime $L_{Aeq, T}$
 - 250 - 55 - 10 dB above Coatham measured daytime $L_{Aeq, T}$
 - 350 - 52 - Equal to Saltholme measured daytime $L_{Aeq, T}$
 - 575 - 48 - Equal to Bran Sands measured daytime $L_{Aeq, T}$
 - 825 - 45 - Equal to Coatham measured daytime $L_{Aeq, T}$

NOTE:
The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11A: Construction Noise Assessment Methodology

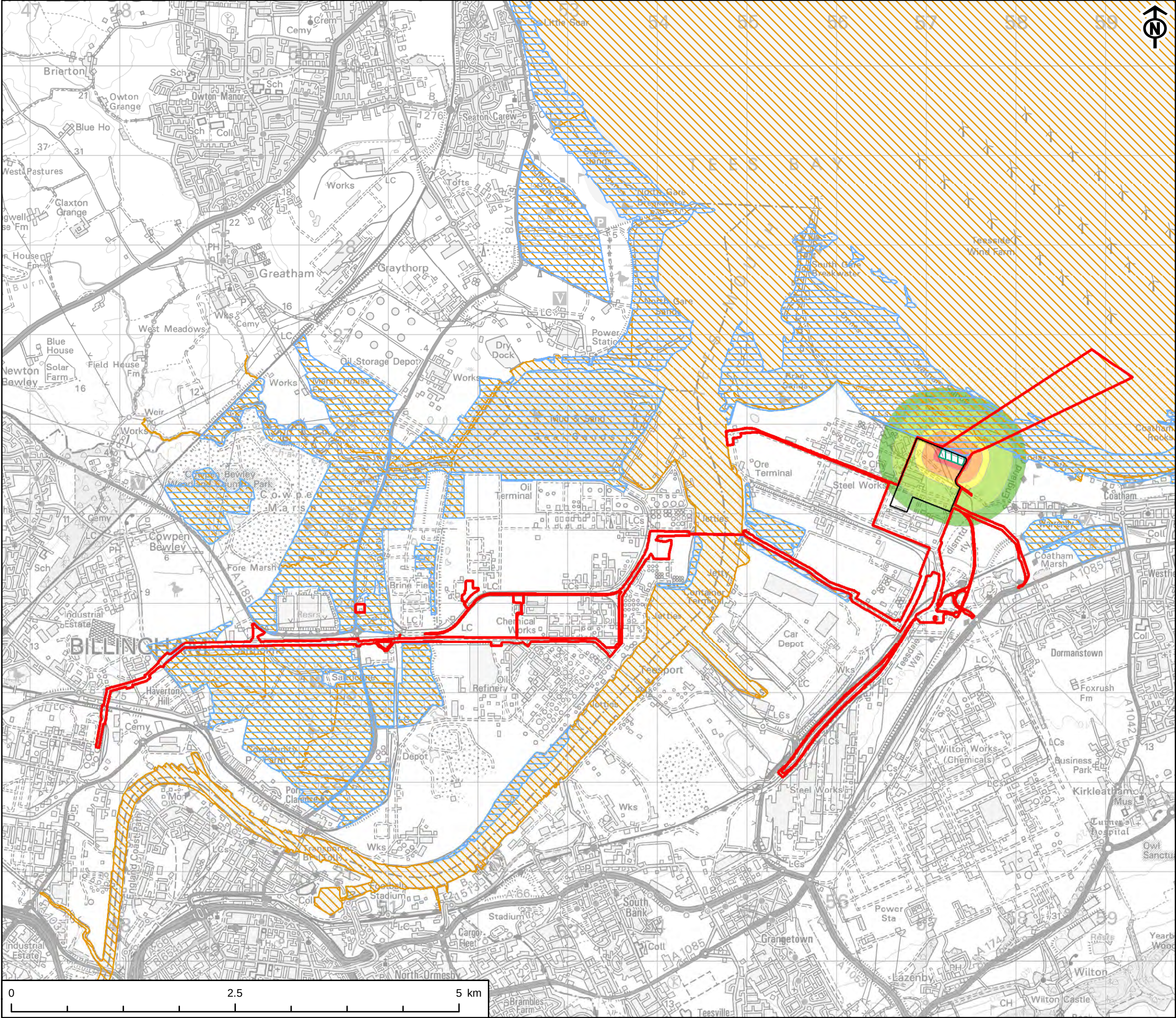
Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

TITLE
FIGURE 11-3
NOISE DISTANCE BANDS
CO₂ GATHERING NETWORK - CONSTRUCTION

REFERENCE
NZT_250121_ES_11-3_v10

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - CO₂ Export Pipeline - HDD Area
 - Ramsar Site
 - Special Protection Area
 - CO₂ Export Pipeline - HDD Area - Noise Distance Bands

- Distance (m) - Level $L_{Aeq, T}$ (dB) -
- 65 - 69 - IECS Receptor Value
 - 190 - 58 - 10 dB above Bran Sands measured daytime $L_{Aeq, T}$
 - 270 - 55 - 10 dB above Coatham measured daytime $L_{Aeq, T}$
 - 525 - 48 - Equal to Bran Sands measured daytime $L_{Aeq, T}$
 - 675 - 45 - Equal to Coatham measured daytime $L_{Aeq, T}$

NOTE:
The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11A: Construction Noise Assessment Methodology

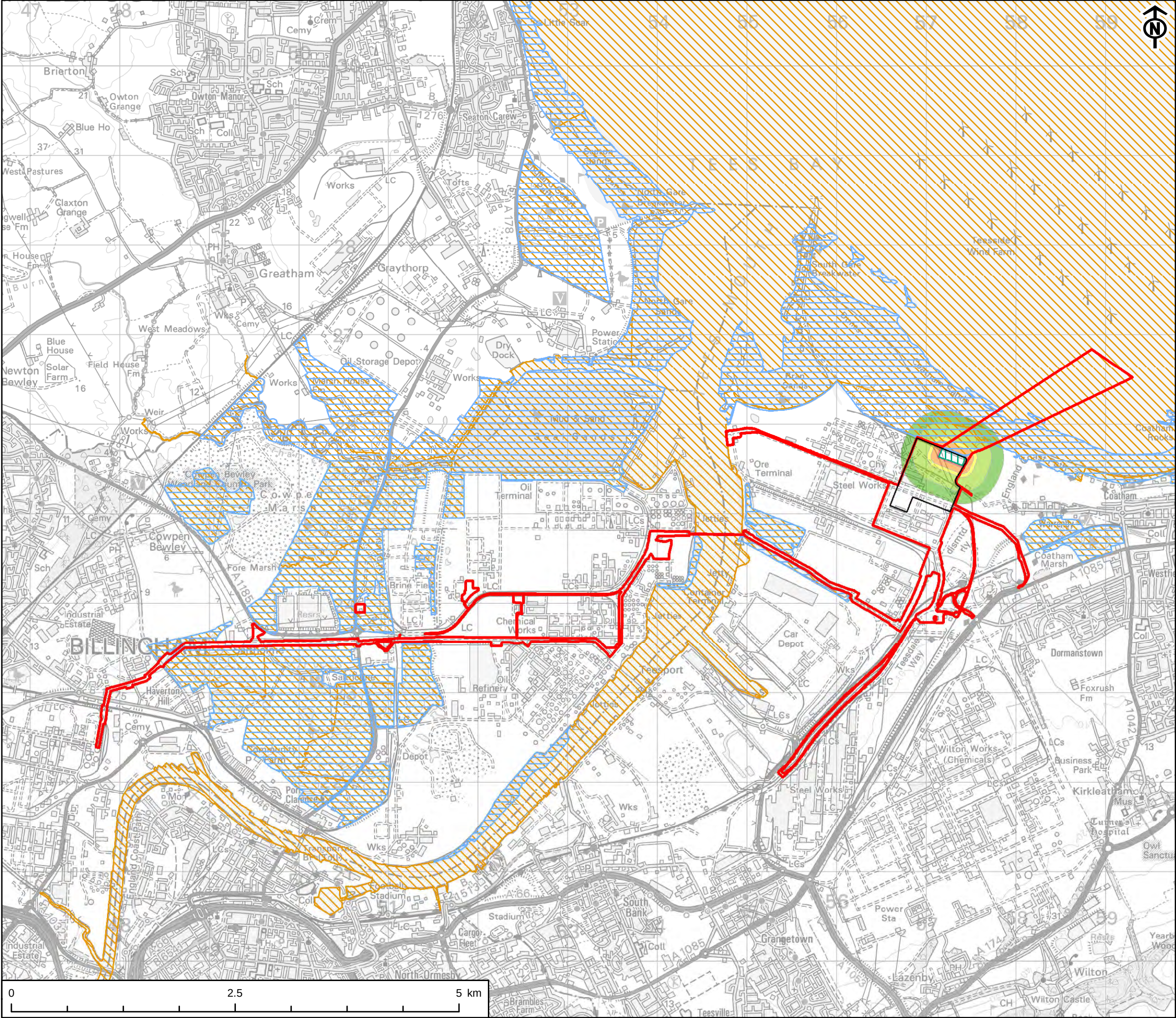
Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

TITLE
FIGURE 11-4 A
NOISE DISTANCE BANDS
CO₂ EXPORT PIPELINE - CONSTRUCTION

REFERENCE
NZT_250121_ES_11-4A_v10

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- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - CO₂ Export Pipeline - HDD Area
 - Ramsar Site
 - Special Protection Area
 - CO₂ Export Pipeline - HDD Area - Noise Distance Bands

- Distance (m) - Level $L_{Aeq, T}$ (dB) -
- 24 - 69 - IECS Receptor Value
 - 90 - 58 - 10 dB above Bran Sands measured daytime $L_{Aeq, T}$
 - 130 - 55 - 10 dB above Coatham measured daytime $L_{Aeq, T}$
 - 290 - 48 - Equal to Bran Sands measured daytime $L_{Aeq, T}$
 - 425 - 45 - Equal to Coatham measured daytime $L_{Aeq, T}$

NOTE:
Noise level predictions made with barrier that completely hides the HDD sources from the receiver.

The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11A: Construction Noise Assessment Methodology

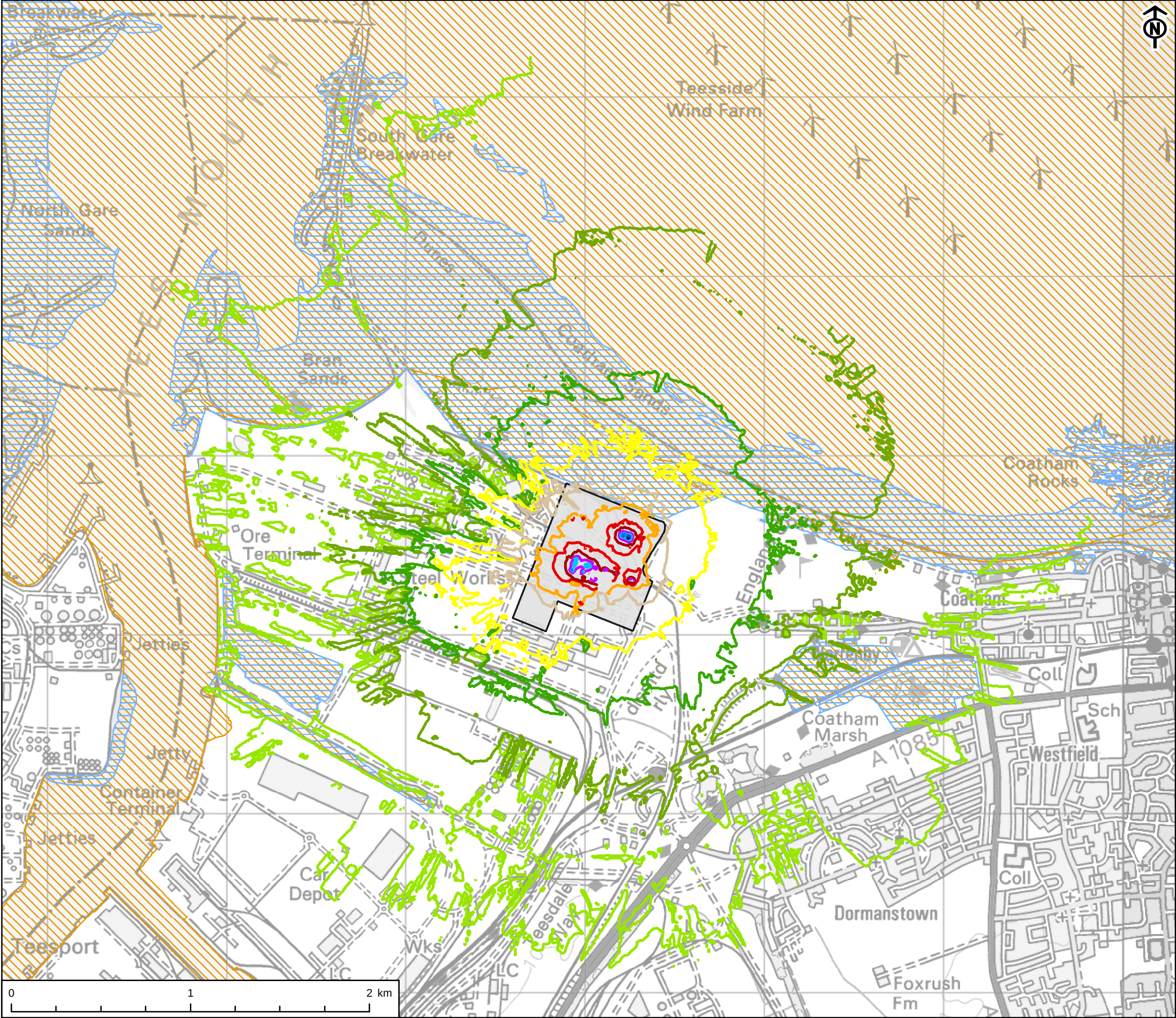
Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

TITLE
FIGURE 11-4 B
NOISE DISTANCE BANDS
CO₂ EXPORT PIPELINE - CONSTRUCTION
WITH FULLY SCREENING BARRIER

REFERENCE
NZT_250121_ES_11-4B_v7

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NET ZERO TEESSIDE PROJECT



APPLICANTS
NZT POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Power, Capture and Compressor Site
 - Ramsar Site
 - Special Protection Area
 - Operational Noise Level $L_{Aeq, T}$ Contour (dB)
 - ≥ 30
 - ≥ 35
 - ≥ 40
 - ≥ 45
 - ≥ 50
 - ≥ 55
 - ≥ 60
 - ≥ 65
 - ≥ 70
 - ≥ 75
 - ≥ 80
 - ≥ 85
 - ≥ 90

NOTE:
The noise levels predicted are based upon the methodologies outlined in:
- Chapter 11: Noise and Vibration
- Appendix 11B: Operational Noise Information

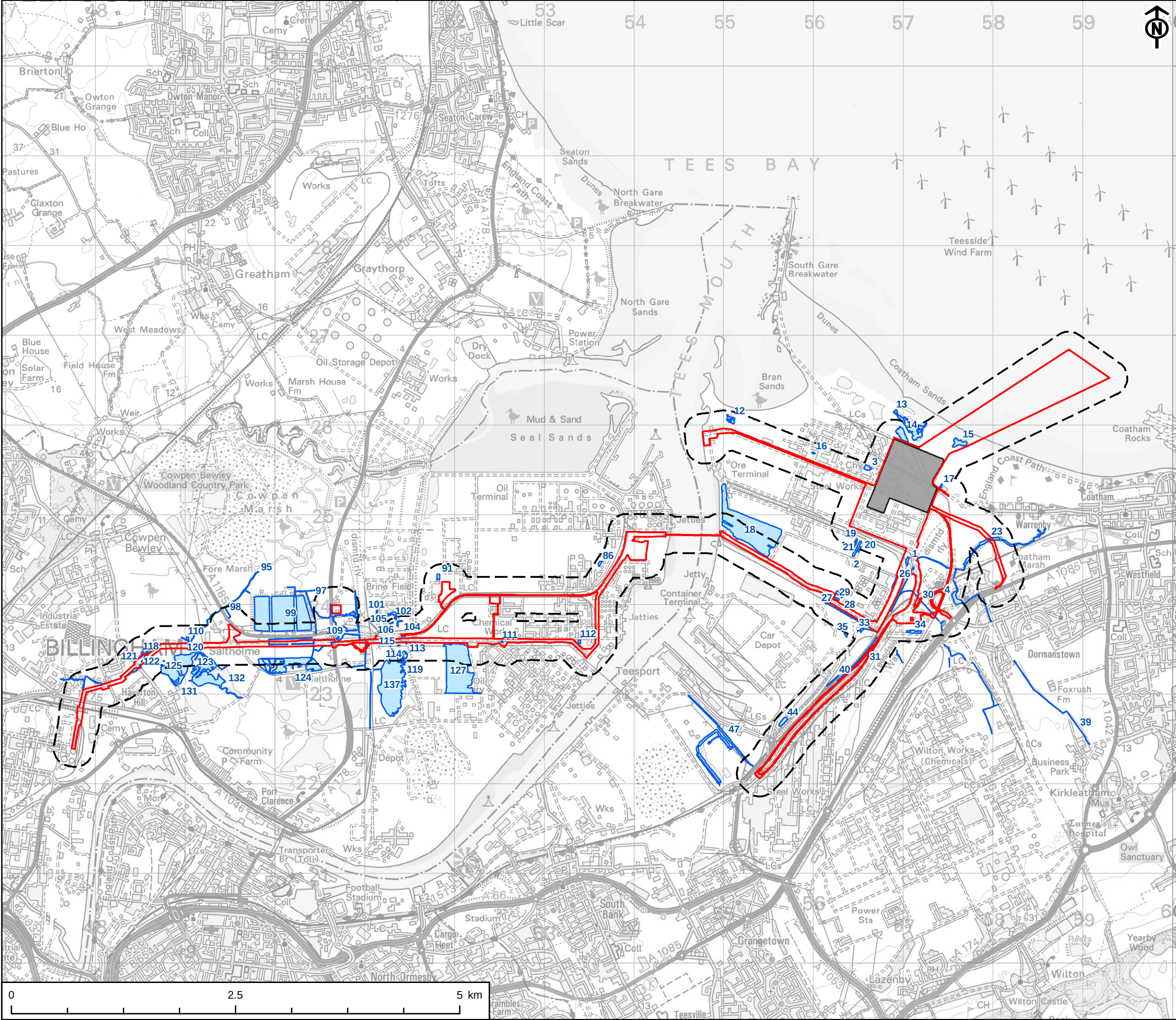
Details of assessment methodologies for assessing noise impacts on ecological receptors contained in Chapter 15: Ornithology and the Habitats Regulations Assessment

TITLE
FIGURE 11-5
OPERATIONAL NOISE LEVELS

REFERENCE
NZT_250121_ES_11-5_v7

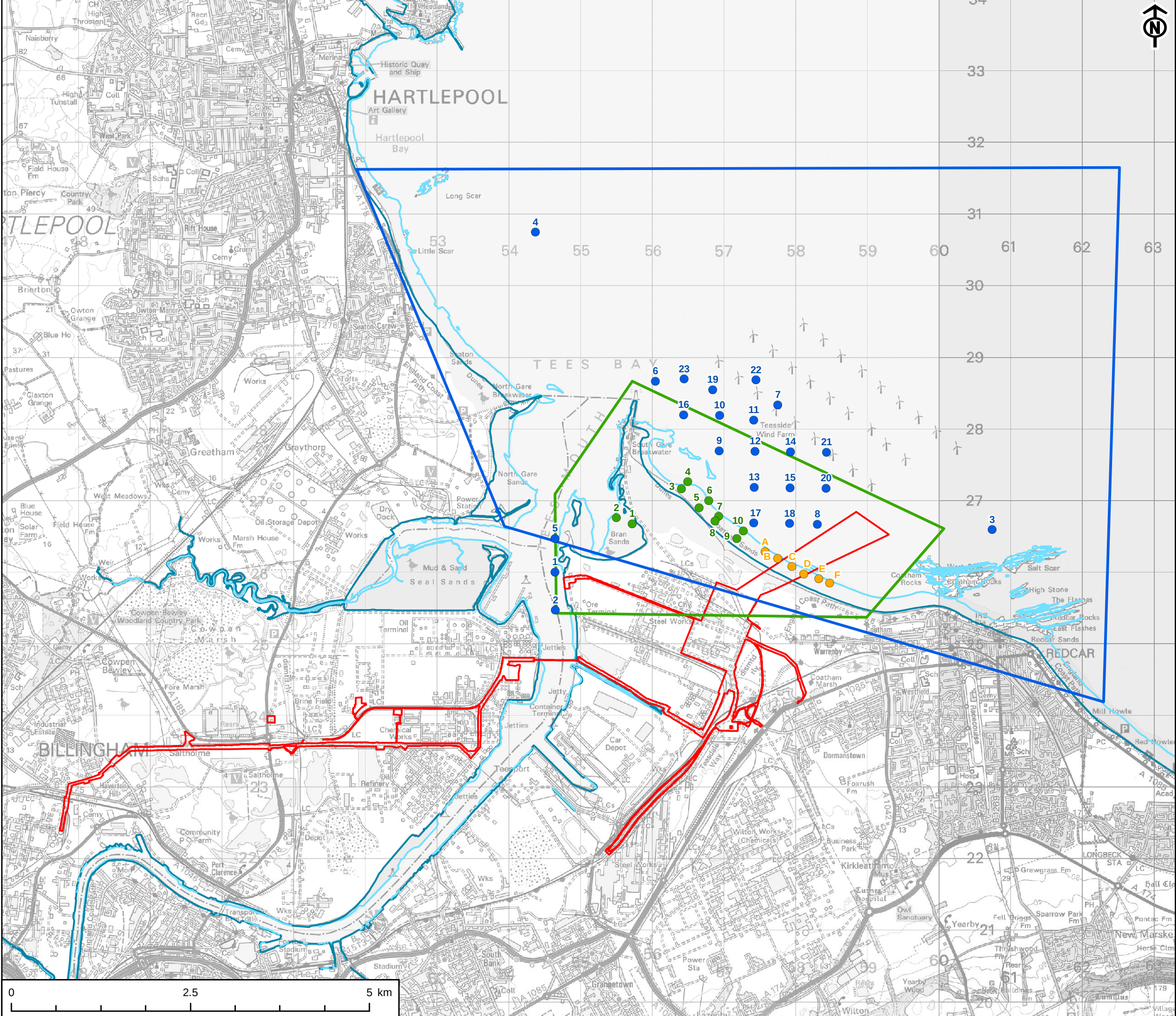
SHEET NUMBER
1 of 1

DATE
21/01/25

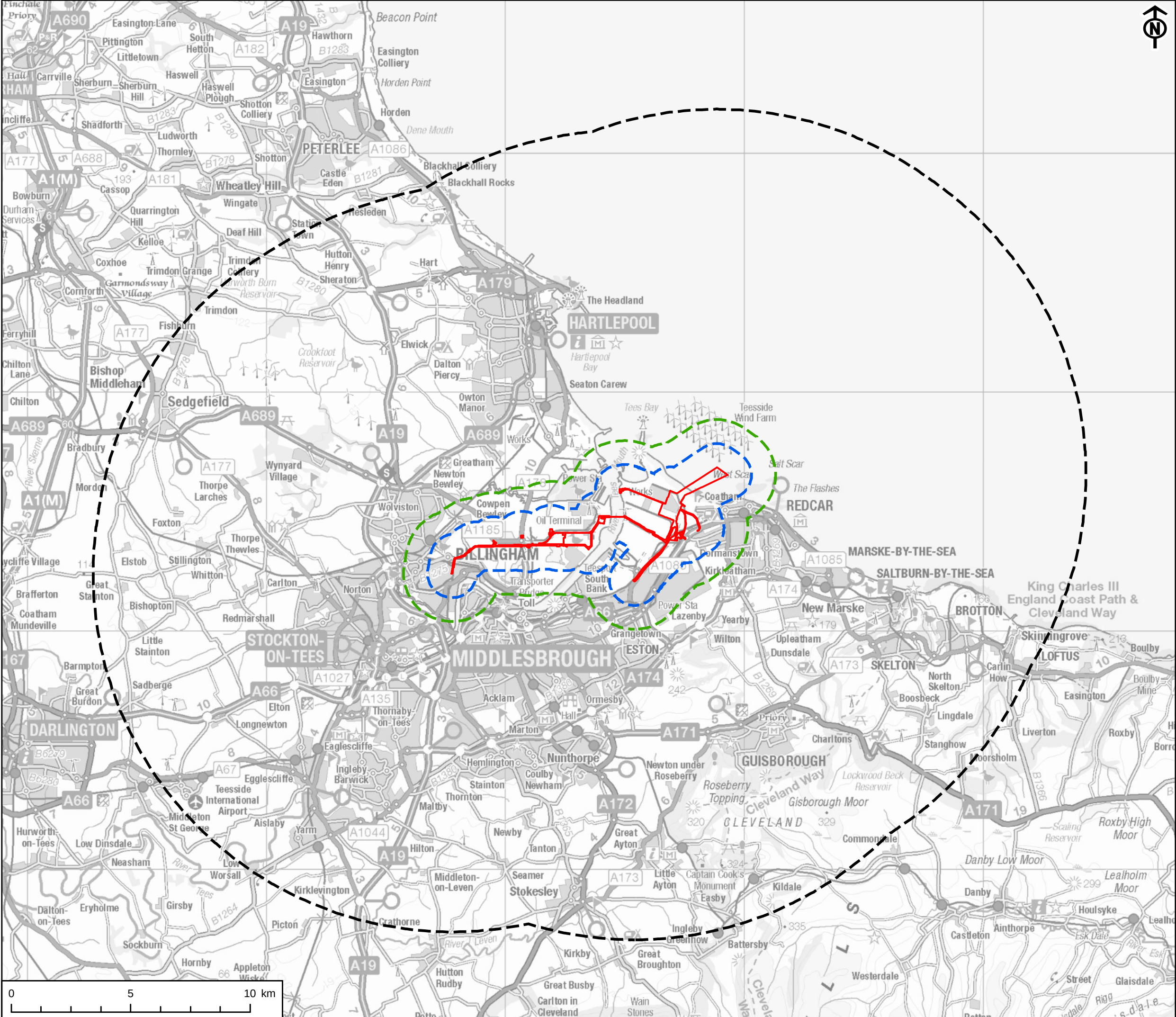


- KEY
- Site Boundary
 - Site Boundary - 200m Buffer
 - Power, Capture and Compressor Site
 - Waterbody within 200m of Site Boundary

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- KEY
- Site Boundary
 - Subtidal Study Area
 - Phase I and II Intertidal Study Area
 - Subtidal Sampling Location
 - Phase II Intertidal Sample Location - 2019
 - Phase II Intertidal Sample Location - 2021
 - Mean Low Water
 - Mean High Water



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APPLICANTS
NZN POWER LTD. AND NZNS STORAGE LTD.

- KEY
- Site Boundary
 - 15km Study Area - International and National Statutory Nature Conservation Designations
 - 2km Study Area - Local Statutory and Non-Statutory Nature Conservation Designations
 - 1km Study Area - Protected and Notable Species

TITLE
FIGURE 15-1
STUDY AREAS

REFERENCE
NZN_250121_ES_15-1_v6

SHEET NUMBER
1 of 1

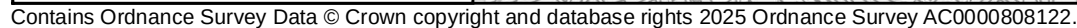
DATE
21/01/25

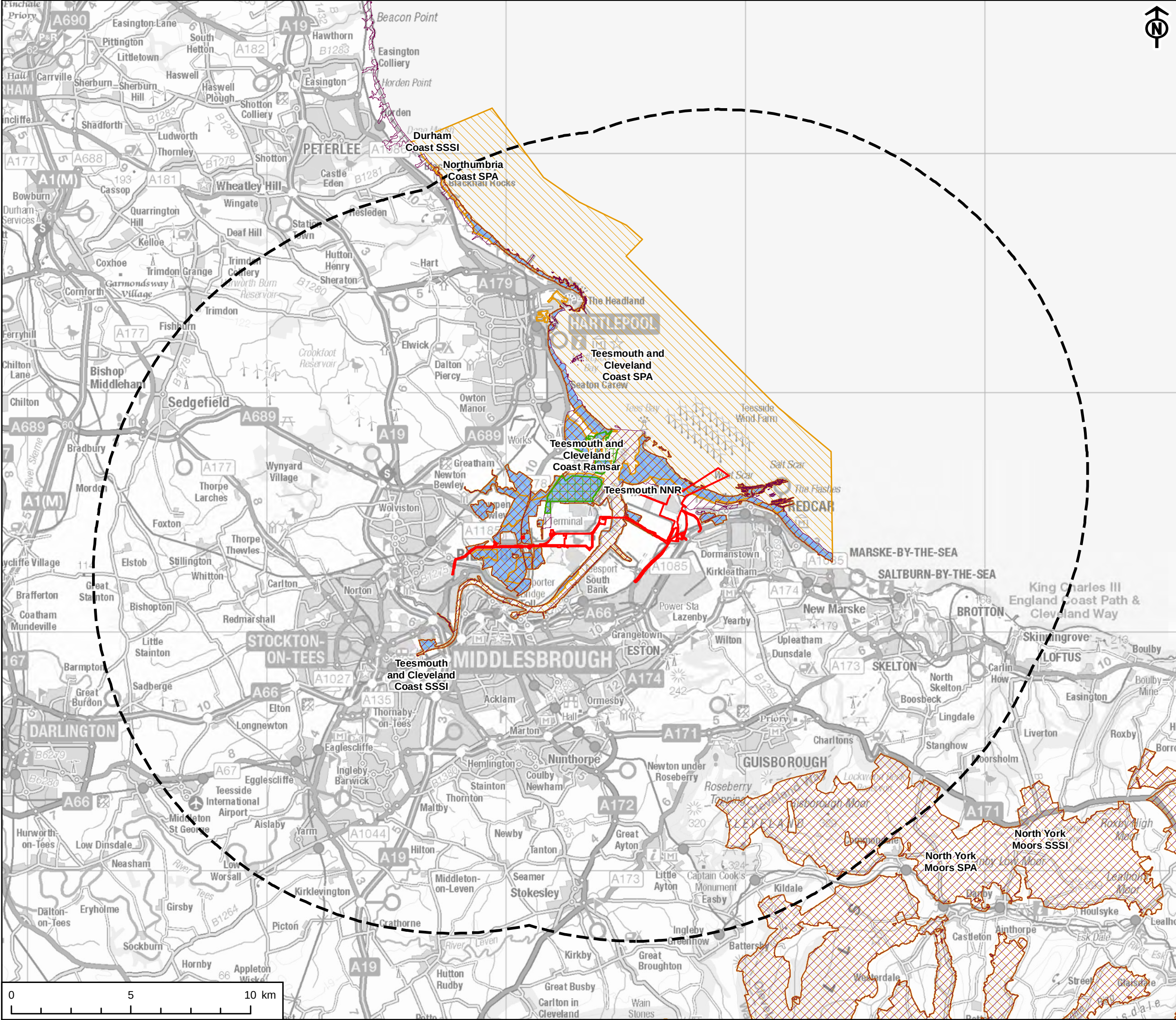
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KEY

-  Site Boundary
-  CBC Survey Area - 2018
-  CBC Survey Area - 2020
-  Intertidal Count Sector
-  High Tide Count Sector

SHEET NUMBER	DATE
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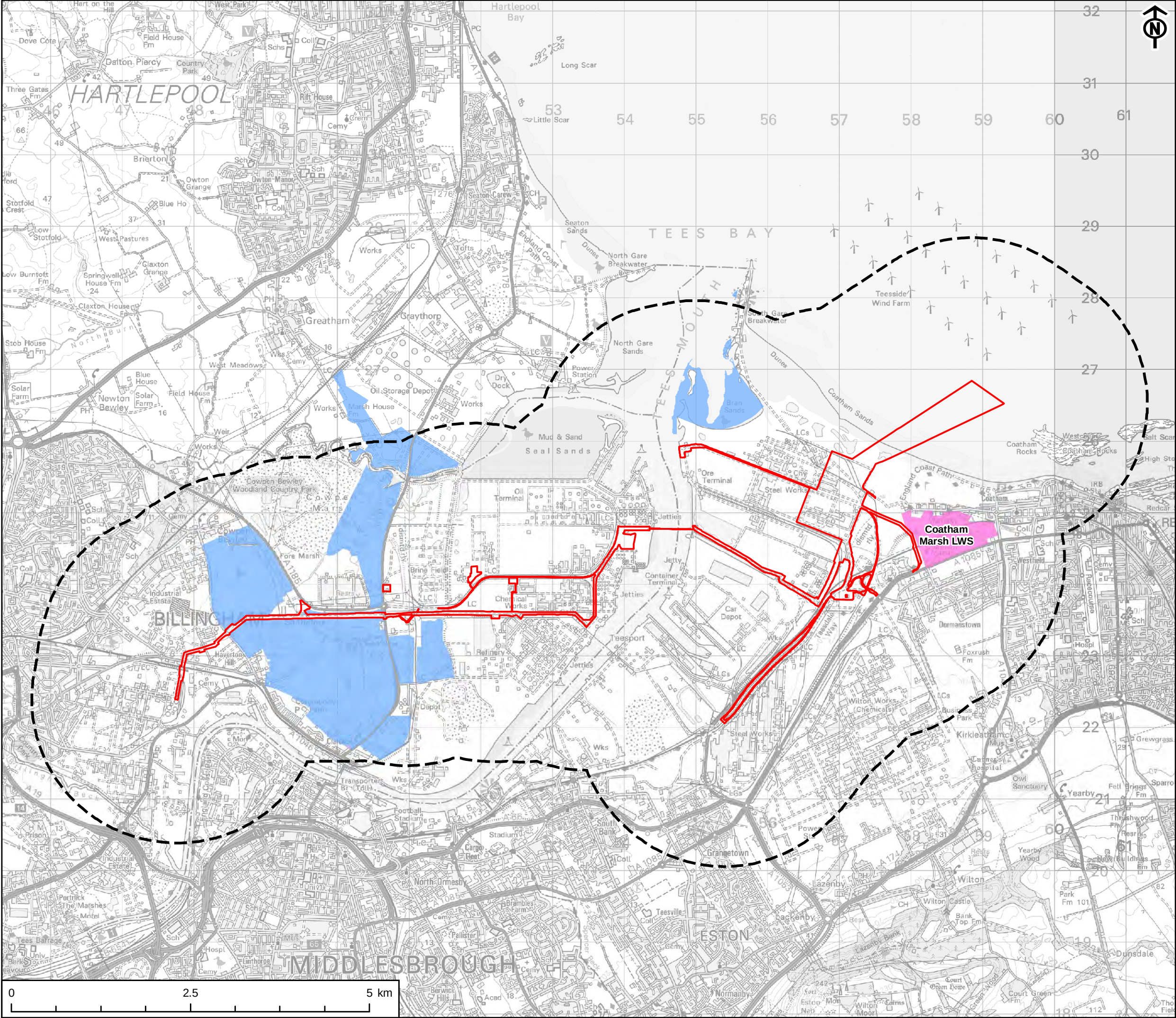




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- KEY
- Site Boundary
 - 15km Study Area - International and National Statutory Nature Conservation Designations
 - National Nature Reserve
 - Site of Special Scientific Interest
 - Special Protection Area
 - Ramsar



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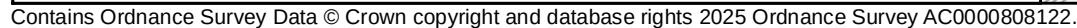


- KEY
- Site Boundary
 - 2km Study Area - Local Statutory and Non-Statutory Nature Conservation Designations
 - RSPB Saltholme Nature Reserve
 - Local Wildlife Site

KEY

	Site Boundary
	Power, Capture and Compressor Site
	Traffic Study Area

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APPLICANTS

NZT POWER LTD. AND NZNS STORAGE LTD.

KEY

-  Site Boundary
 Power, Capture and Compressor Site
 HGV Route
 via A174
 via A66

TITLE

FIGURE 16-2
HGV ROUTES TO AND FROM SITE

REFERENCE

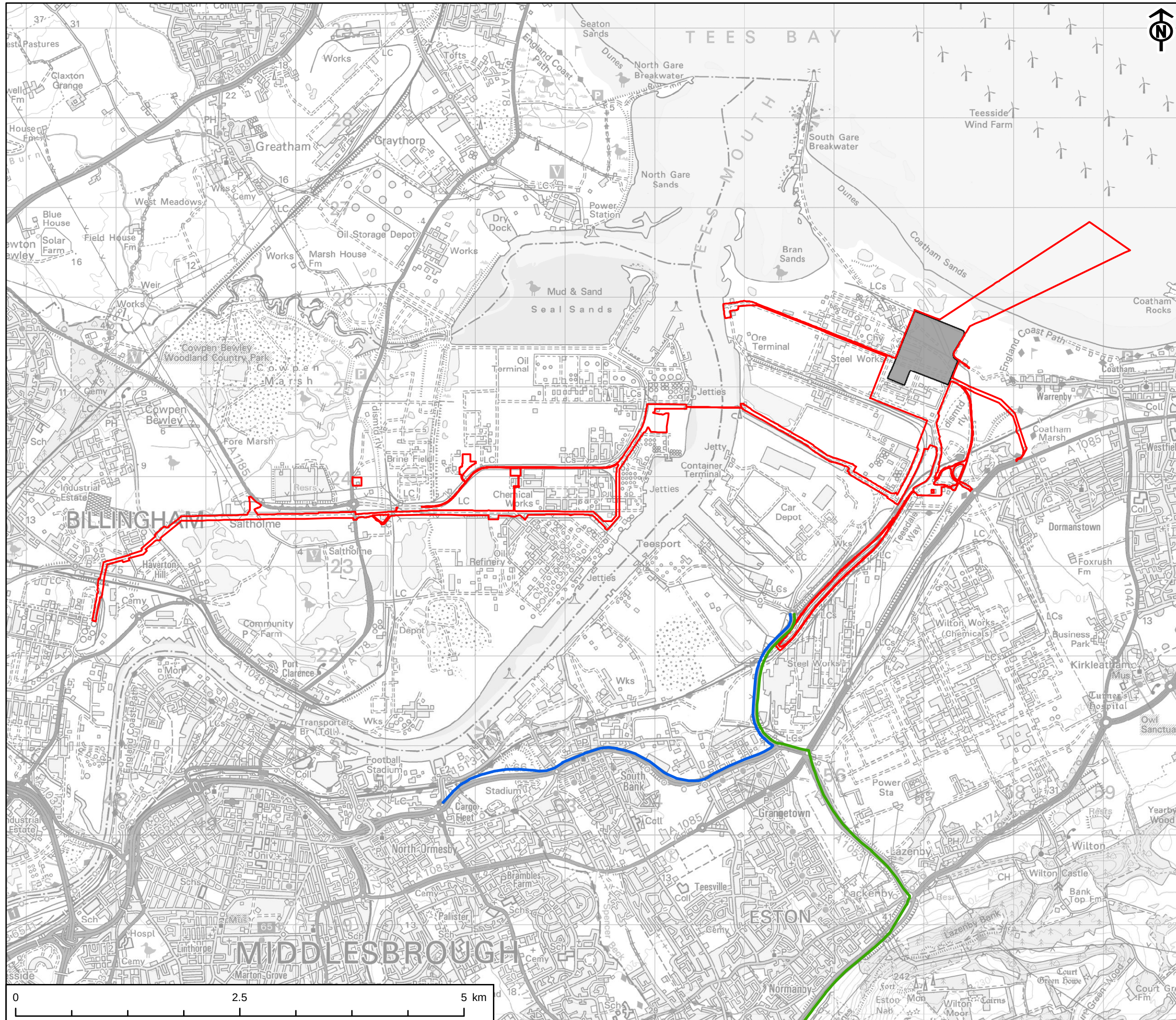
NZT_250121_ES_16-2_v5

SHEET NUMBER

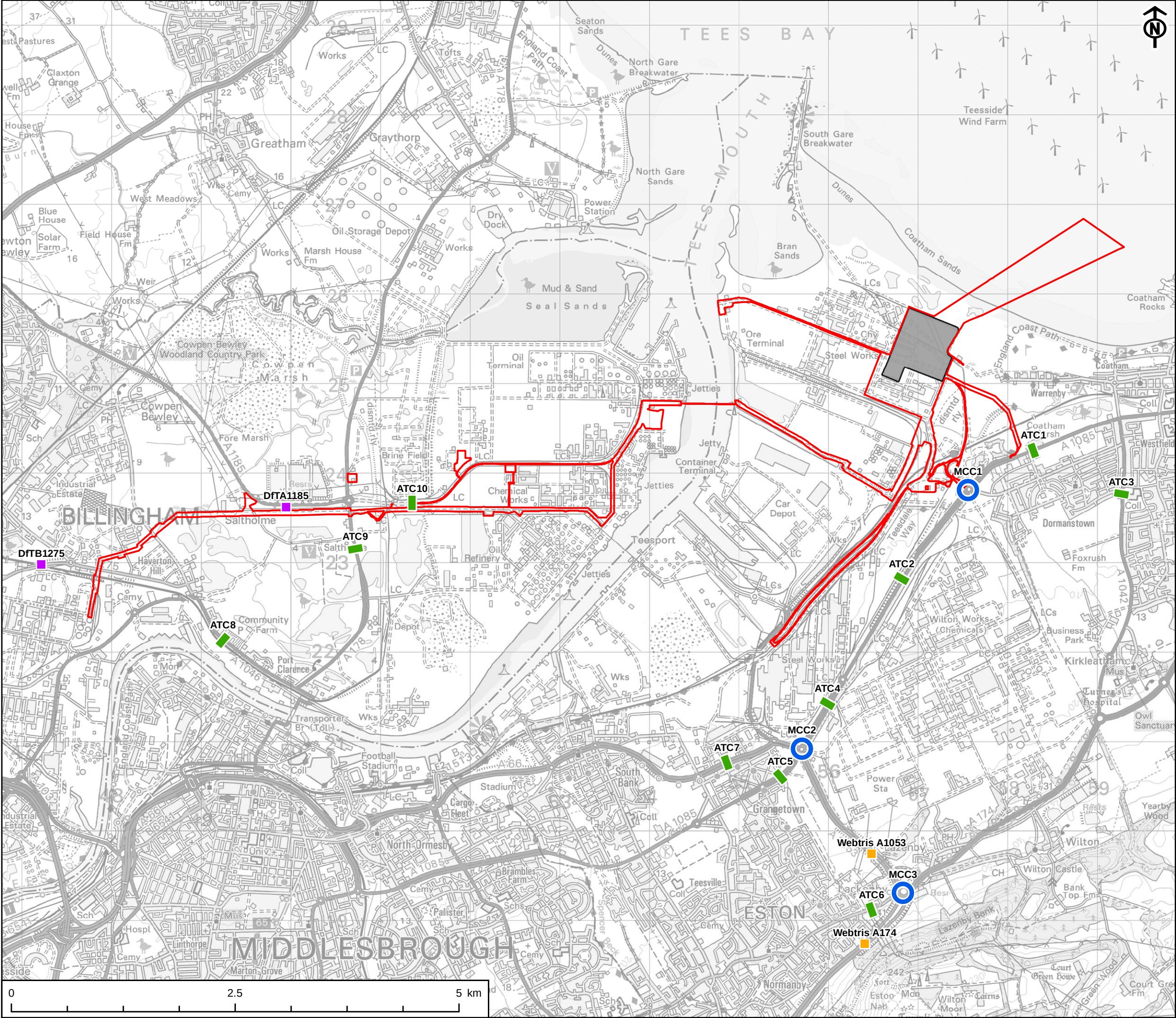
1 of 1

DATE

1/01/2025



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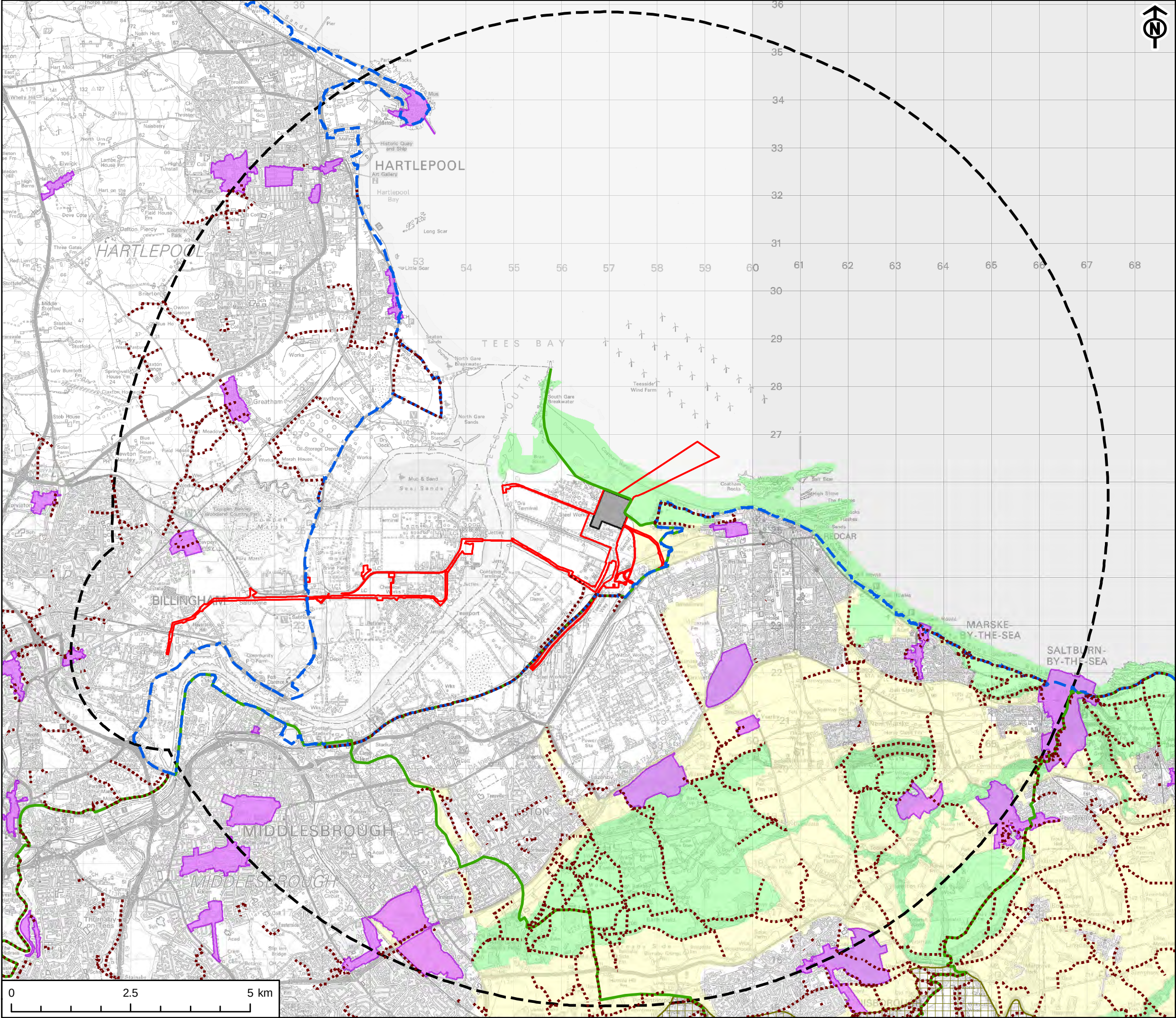
- KEY
- Site Boundary
 - Power, Capture and Compression Site
 - Traffic Count Location
 - Manual Classified Count
 - Automated Traffic Count
 - Webtris Data
 - DfT Data

TITLE
FIGURE 16-3
TRAFFIC COUNT LOCATIONS

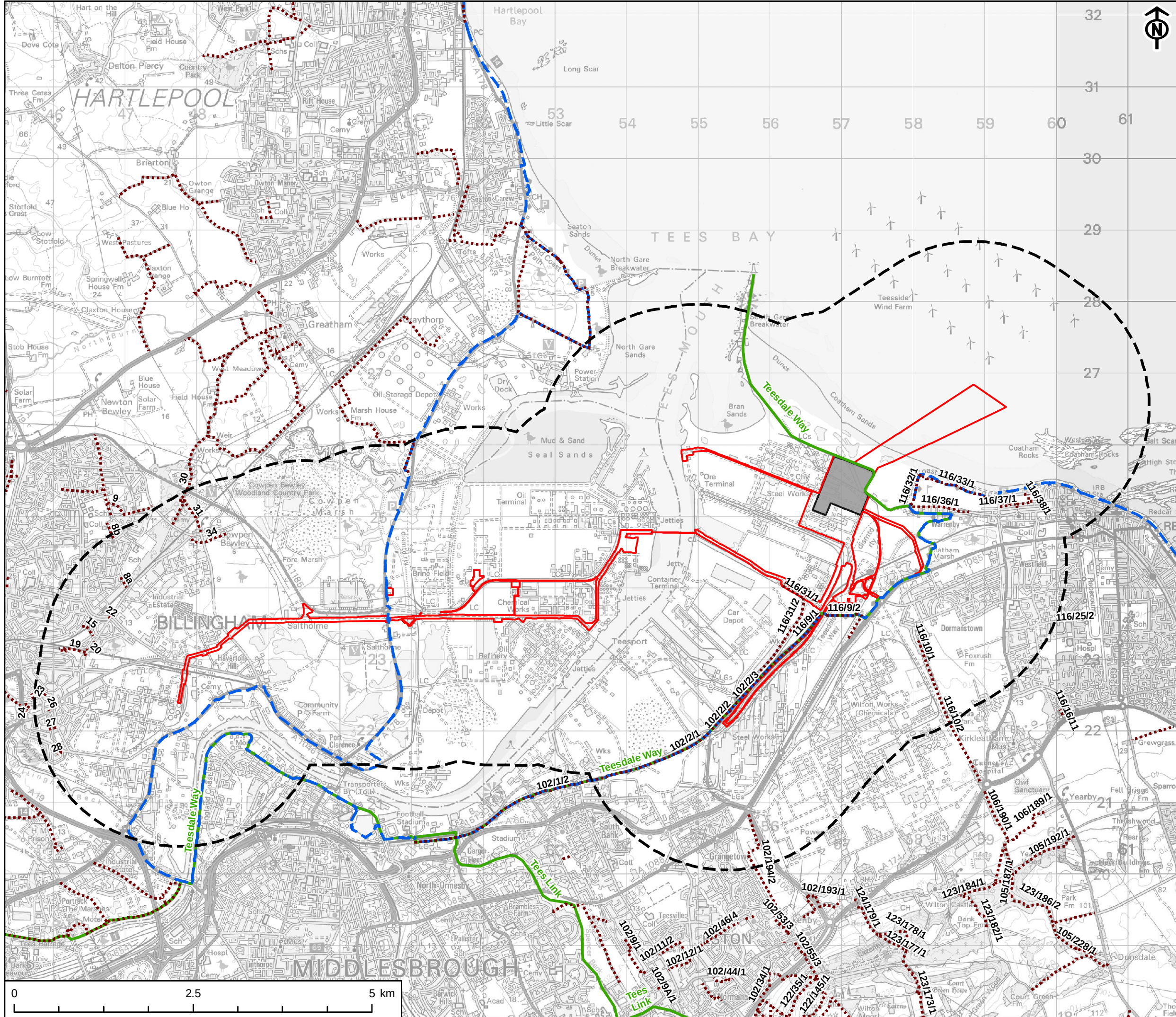
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NZT_250121_ES_16-3_v5

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DATE
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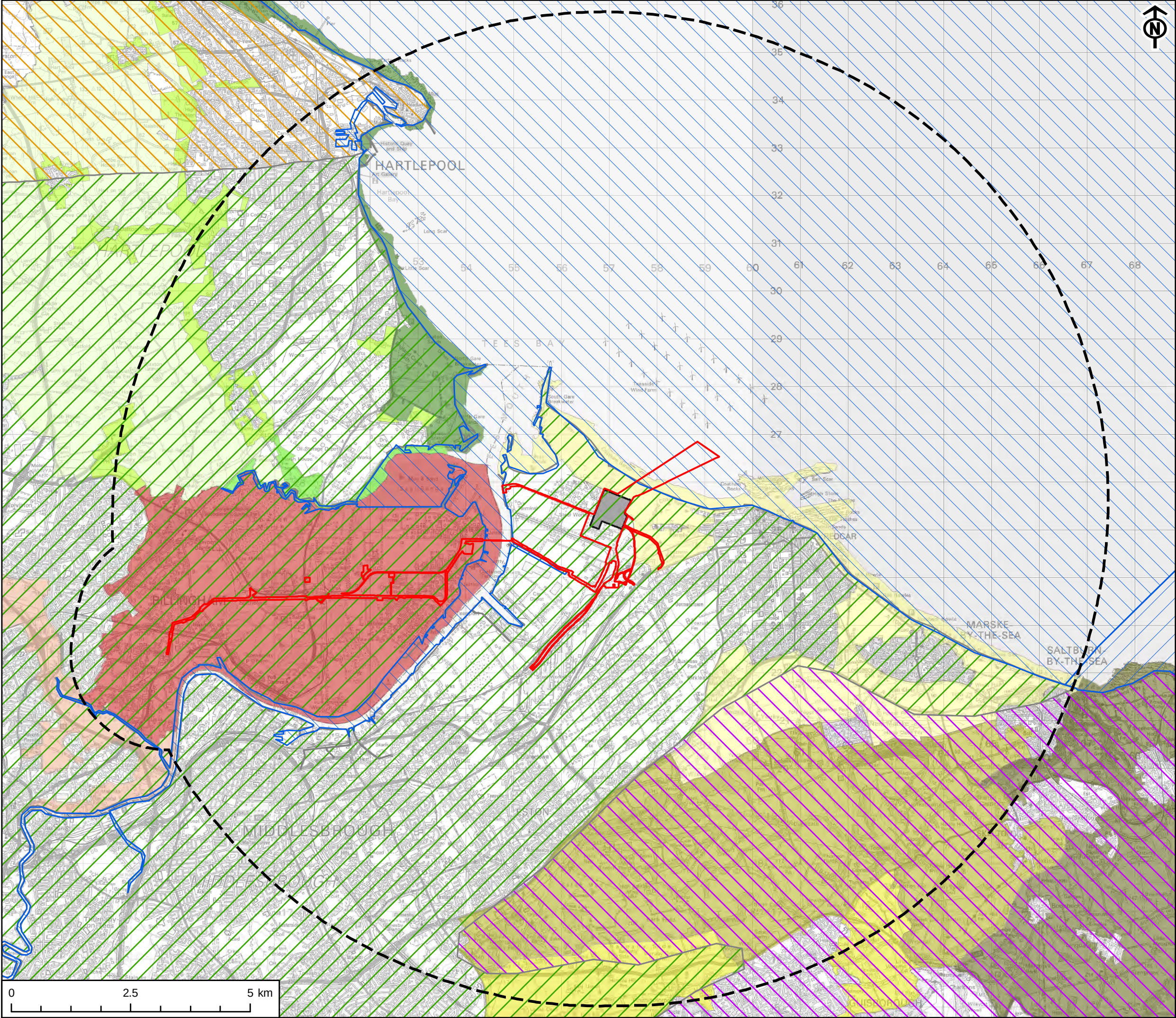


KEY	
	Landscape Study Area
	Site Boundary
	Power, Capture and Compressor Site
	National Trail / Long Distance Route
	England Coast Path
	Public Right of Way
	Conservation Area
	North York Moors National Park
Redcar and Cleveland Local Plan Areas	
	N 1 Restoration Landscape Areas
	N 1 Sensitive Landscape Areas



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- KEY
- Landscape Study Area
 - Site Boundary
 - Power, Capture and Compressor Site
 - National Character Area - Natural England (2003)
 - NCA 15: Durham Magnesian Limestone Plateau
 - NCA 23: Tees Lowlands
 - NCA 25: North York Moors and Cleveland Hills

Stockton and Tees Landscape Character Assessment (2011)

- Landscape Character Area
- East Billingham to Teesmouth
 - Thorpe and Billingham Beck Valley

Redcar and Cleveland Landscape Character SPD (2010)

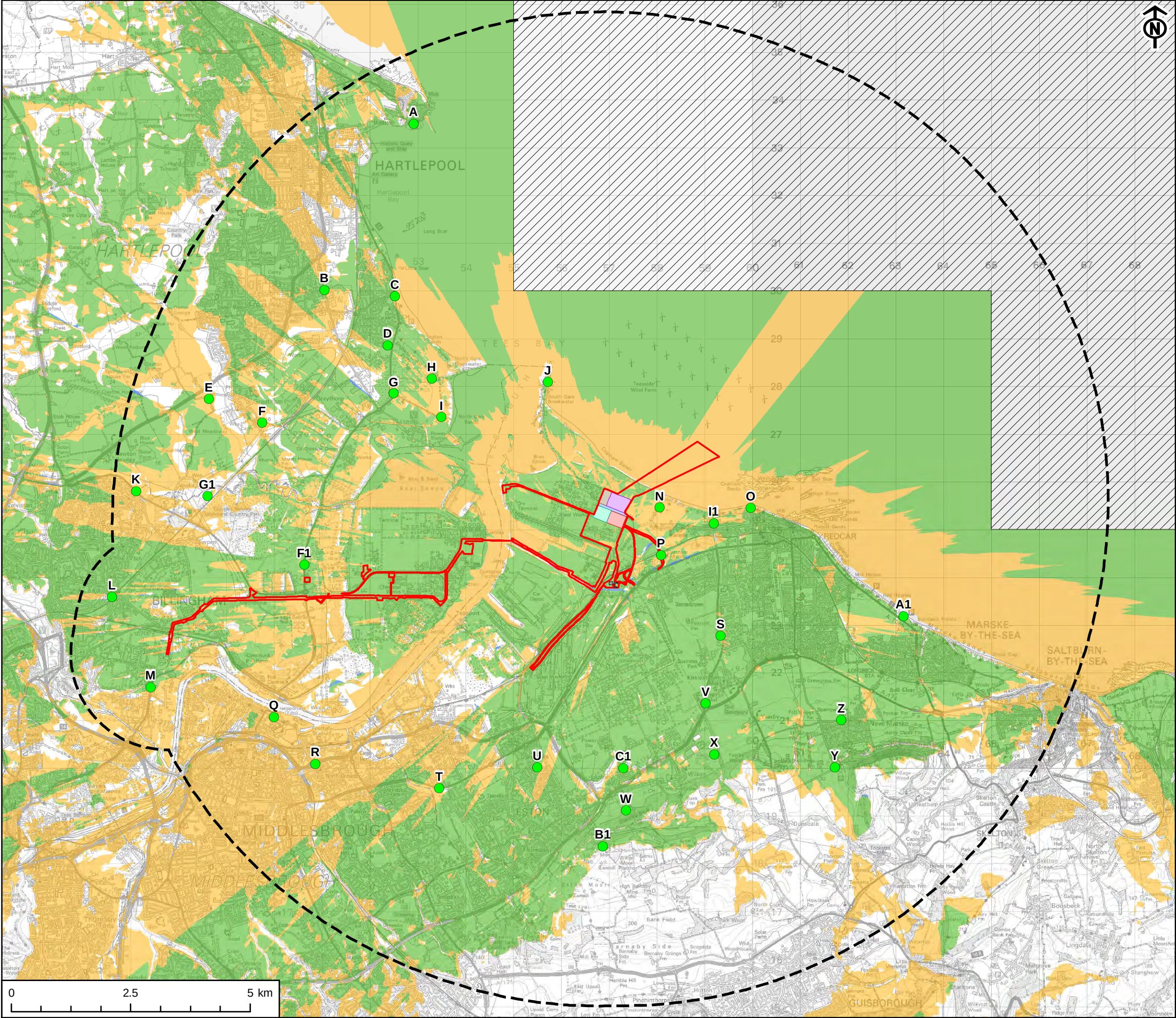
- Landscape Character Tract
- East Cleveland Plateau
 - Eston Hills
 - Guisborough Lowland
 - Redcar Flats

Hartlepool Landscape Assessment (2000)

- Landscape Character Type
- Coastal
 - Estuarine
 - Rural Fringe
 - Undulating Farmland

Marine Character Area - MMO (2018)

- MCA 21: North Yorkshire Coastal Waters
- MCA 22: Tyne, Tees and Wear Estuaries and Coastal Waters



KEY	
	Landscape Study Area
	Site Boundary
	Substation Location - 11.7m
Power, Capture and Compressor Site	
	Carbon Capture Plant - 115m
	CCT Cooling Towers - 30m
	HP Compression - 20m
	CCGT Power Plant - 110m
	Water Treatment and Discharge - 20m
	Potential Viewpoint Location
	No DTM Coverage
Zone of Theoretical Visibility	
	PCC Site only
	Substation only
	PCC Site and Substation

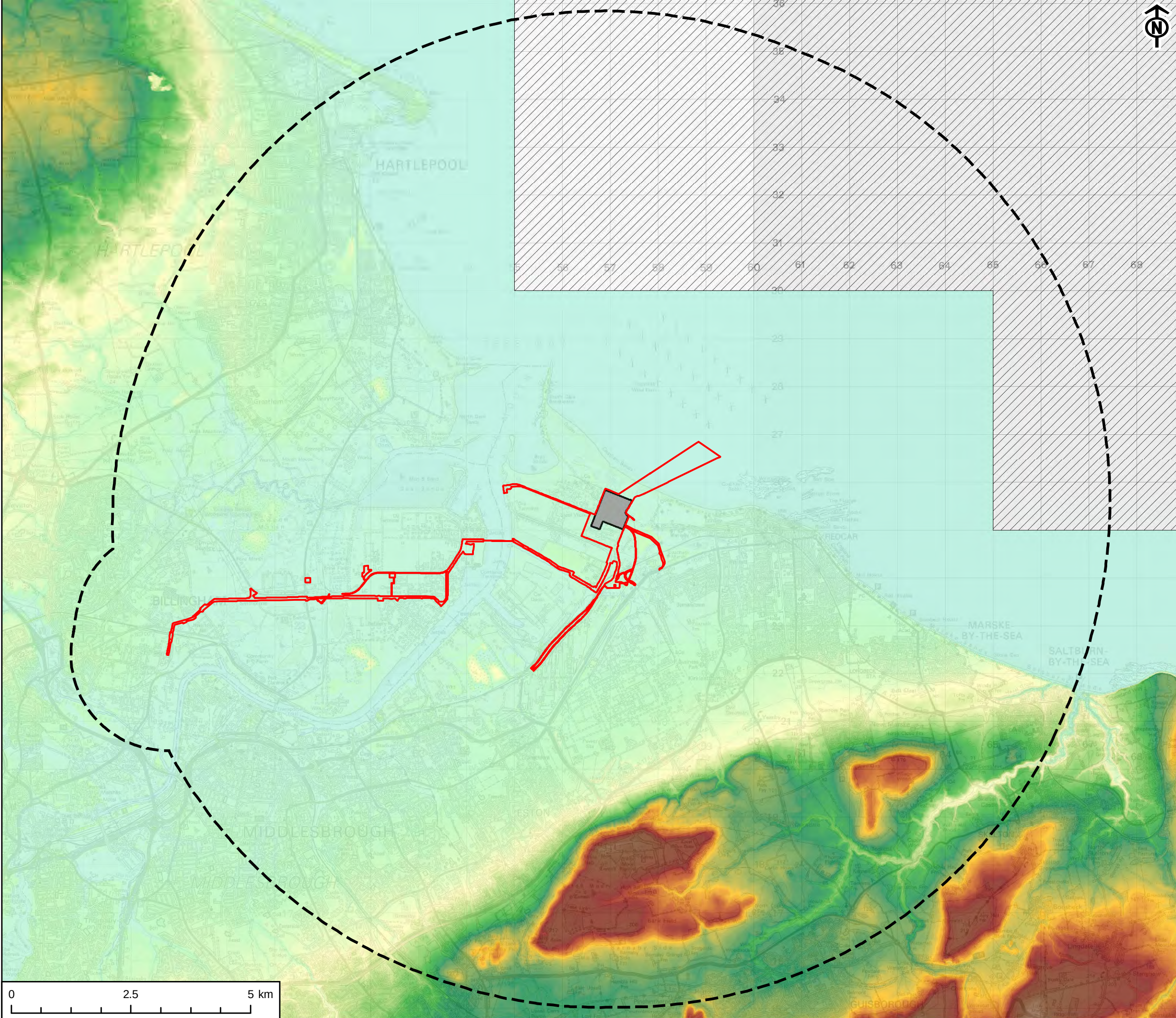
NOTE:
Zone of Theoretical Visibility (ZTV) has been generated using Ordnance Survey Terrain 5 digital terrain model which does not take into account the screening effects of vegetation, buildings or other structures.
ZTV is based upon a grid of points at 50m apart within the PCC Site footprint at varying heights as specified above with an assumed constant ground level of 13m and an observer eye height of 1.6m.
All heights mentioned above are above ground level (AGL).

TITLE
FIGURE 17-4
ZONE OF THEORETICAL VISIBILITY AND
POTENTIAL VIEWPOINT LOCATIONS

REFERENCE
NZN_250121_ES_17-4_v5

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21/01/25



PROJECT
NET ZERO TEESSIDE PROJECT



APPLICANTS
NZT POWER LTD. AND NZNS STORAGE LTD.

KEY

- Landscape Study Area
- Site Boundary
- Power, Capture and Compressor Site
- No DTM Coverage

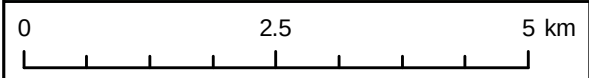
Topography (OS Terrain 5) - m
- High : 328.14
- Low : -6.91

TITLE
FIGURE 17-5
TOPOGRAPHY - OS TERRAIN 5

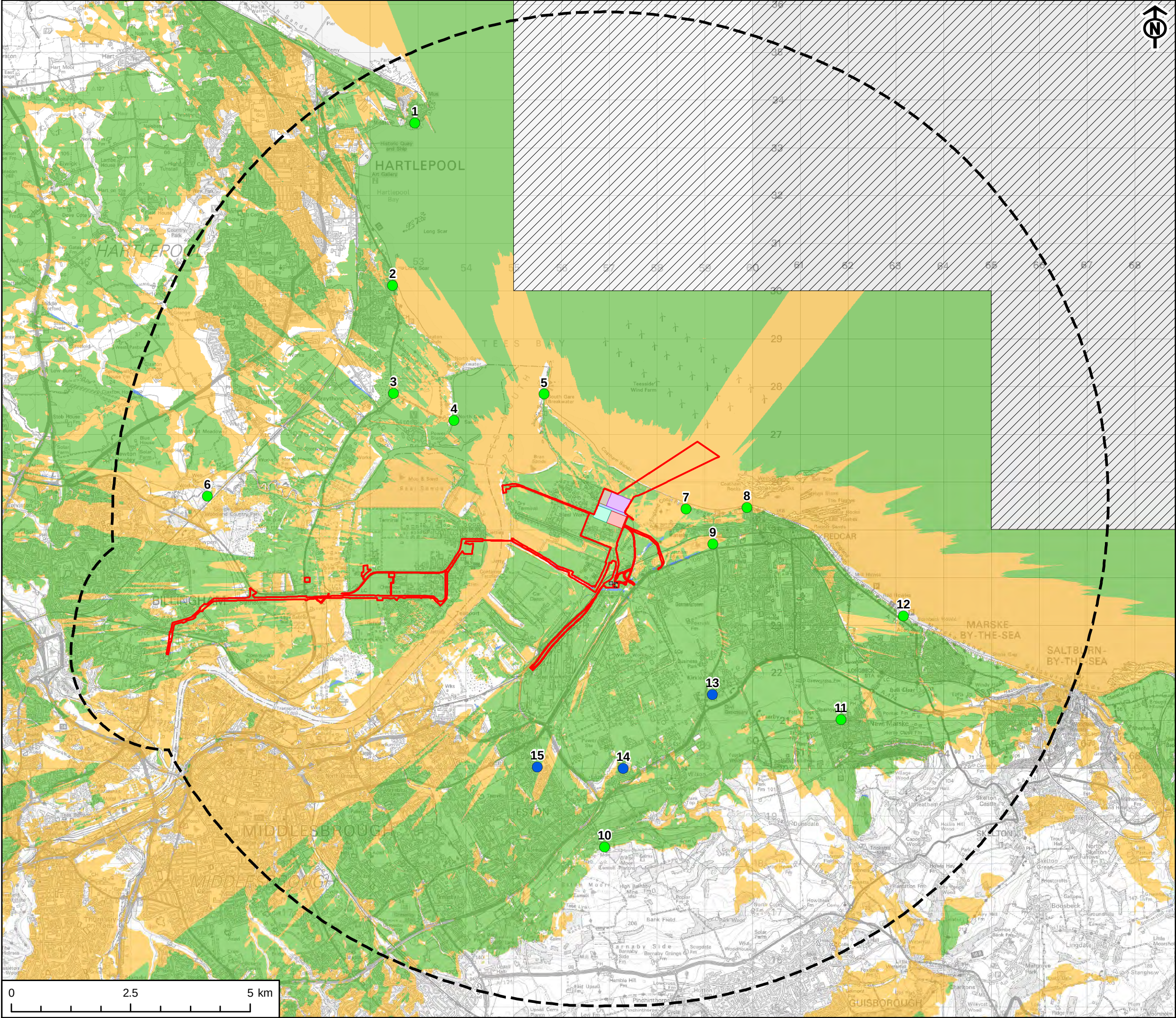
REFERENCE
NZT_250121_ES_17-5_v6

SHEET NUMBER
1 of 1

DATE
21/01/25

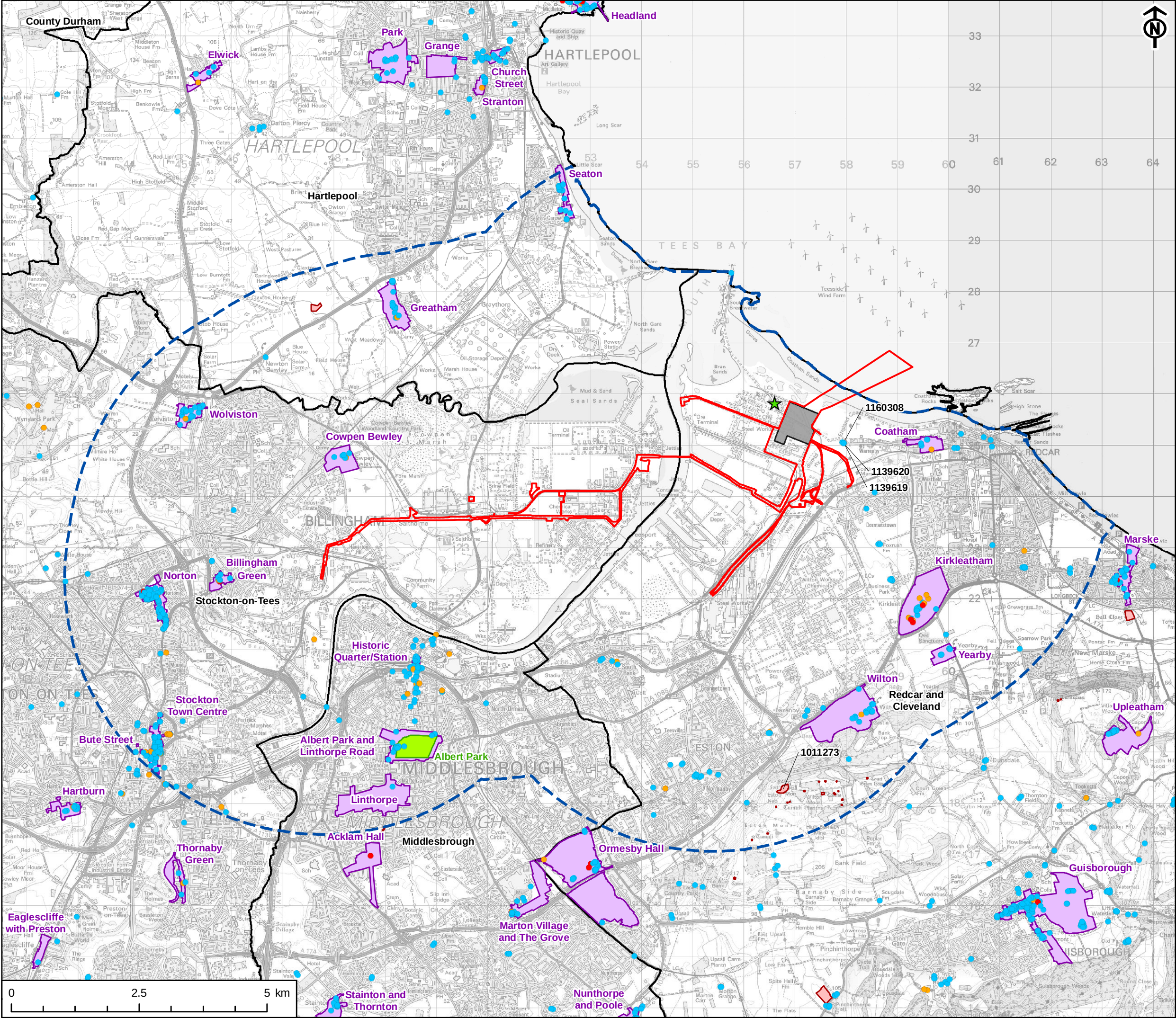


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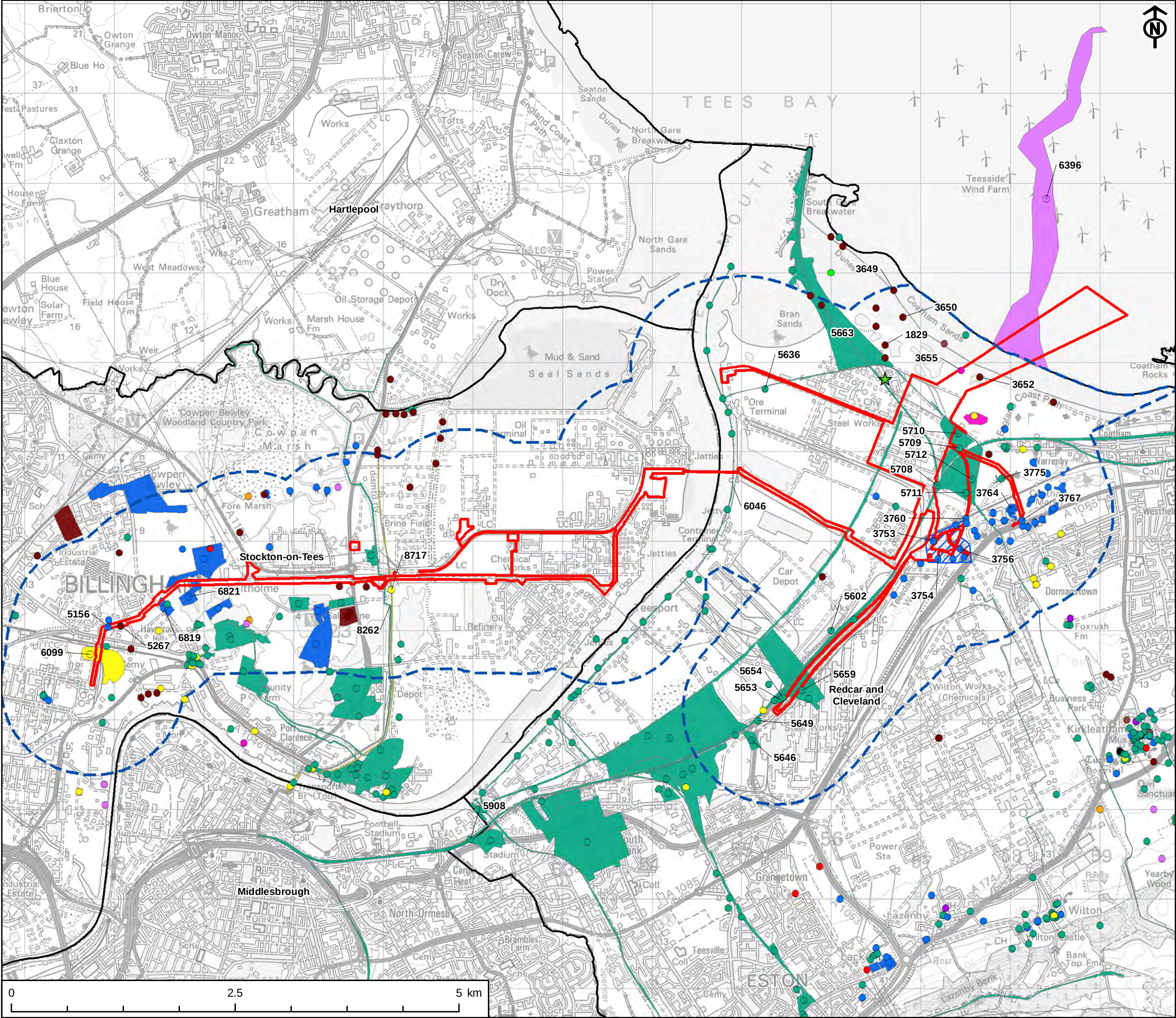


KEY	
	Landscape Study Area
	Site Boundary
	Substation Location - 11.7m
Power, Capture and Compressor Site	
	Carbon Capture Plant - 115m
	CCT Cooling Towers - 30m
	HP Compression - 20m
	CCGT Power Plant - 110m
	Water Treatment and Discharge - 20m
	Representative Viewpoint Location
	Representative Viewpoint Location - Discounted
	No DTM Coverage
Zone of Theoretical Visibility	
	PCC Site only
	Substation only
	PCC Site and Substation

NOTE:
Zone of Theoretical Visibility (ZTV) has been generated using Ordnance Survey Terrain 5 digital terrain model which does not take into account the screening effects of vegetation, buildings or other structures.
ZTV is based upon a grid of points at 50m apart within the PCC Site footprint at varying heights as specified above with an assumed constant ground level of 13m, and a grid of points at 10m apart with a height of 11.7m with an assumed ground level of 9.8m and an observer eye height of 1.6m.

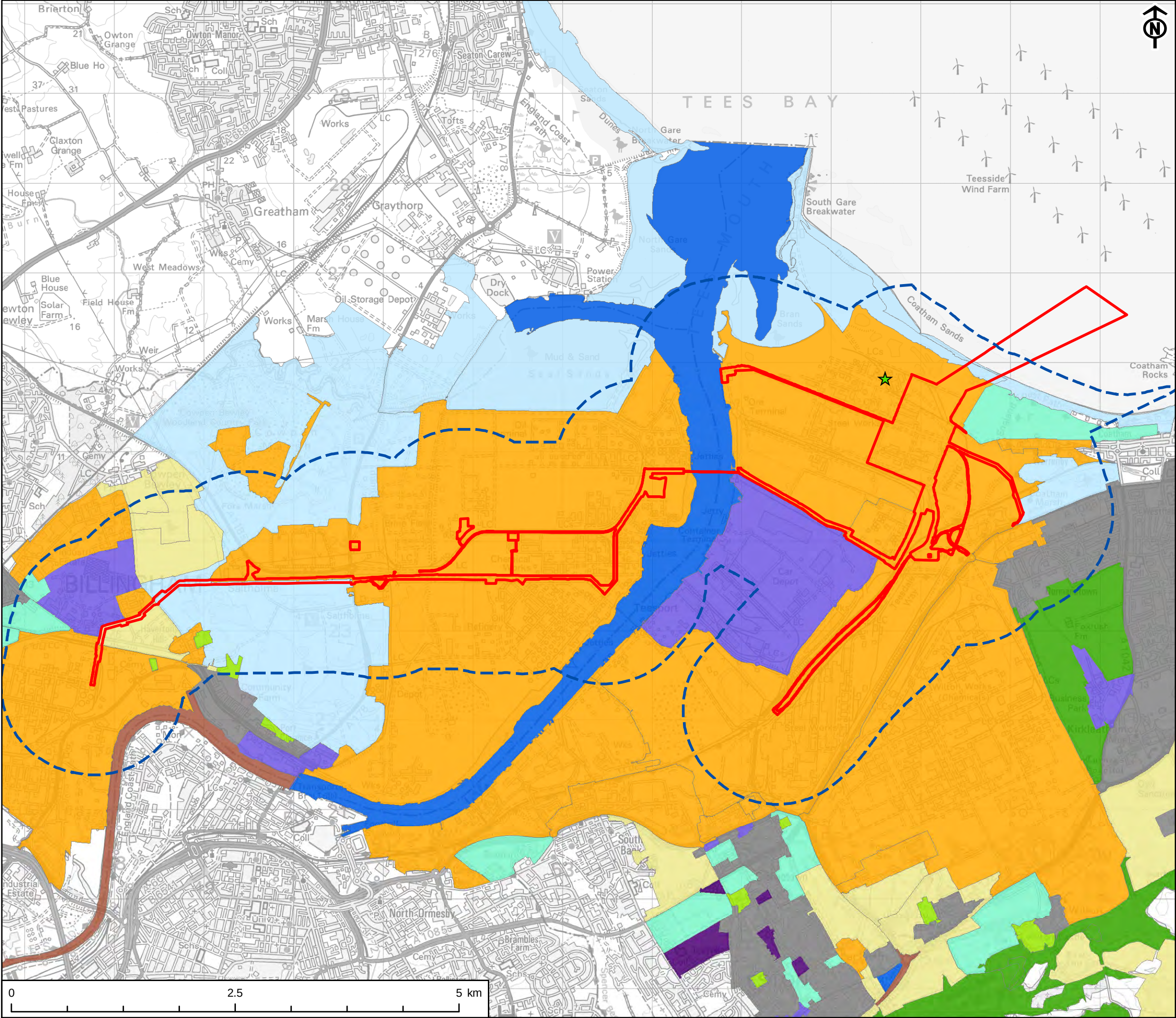


- KEY
- Site Boundary
 - District Boundary
 - 5km Study Area
 - Power, Capture and Compressor Site
 - Blast Furnace Location
 - Grade I Listed Building
 - Grade II* Listed Building
 - Grade II Listed Building
 - Scheduled Monument
 - Park and Garden
 - Conservation Area



- KEY
- Site Boundary
 - District Boundary
 - 1km Study Area
 - Blast Furnace Location
- HER Heritage Assets - Point
- Palaeolithic
 - Neolithic
 - Bronze Age
 - Iron Age
 - Prehistoric
 - Roman
 - Early Medieval
 - Medieval
 - Post-Medieval
 - World War I
 - World War II
 - Modern
 - Unknown
- HER Heritage Assets - Polygon
- Prehistoric
 - Medieval
 - Post-Medieval
 - World War I
 - World War II
 - Modern
 - Area of Saltmounds - No Longer Extent

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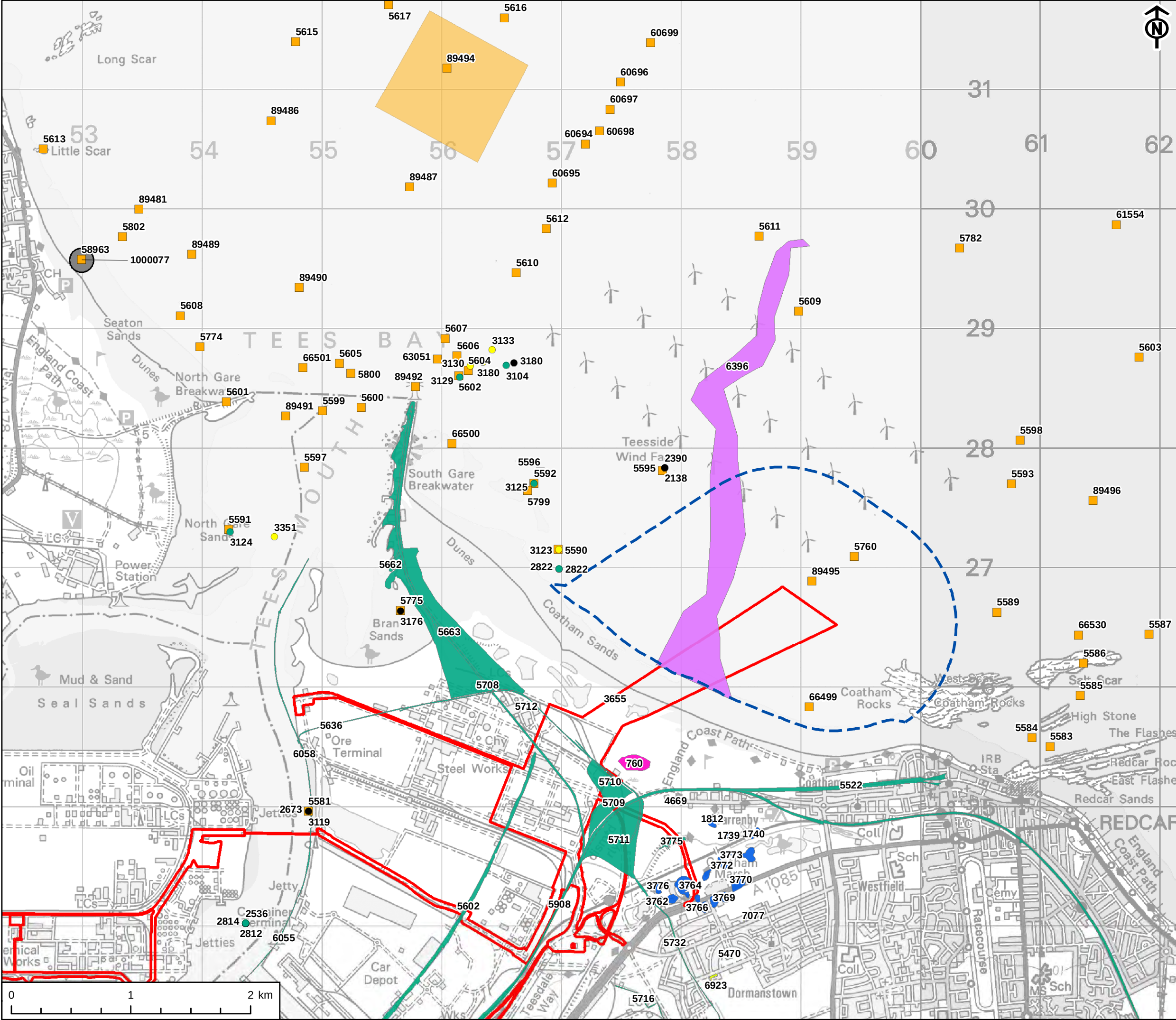


- KEY
- Site Boundary
 - 1km Study Area
 - Blast Furnace Location
- Historic Landscape Character
- Coastal
 - Commercial
 - Communications
 - Designed landscape
 - Enclosed land
 - Industrial
 - Institutional
 - Recreational
 - Settlement
 - Water
 - Woodland

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Project Management Initials: IC Designer: LC Checked: APC Approved: AC

Scale @ A3 1:30,000



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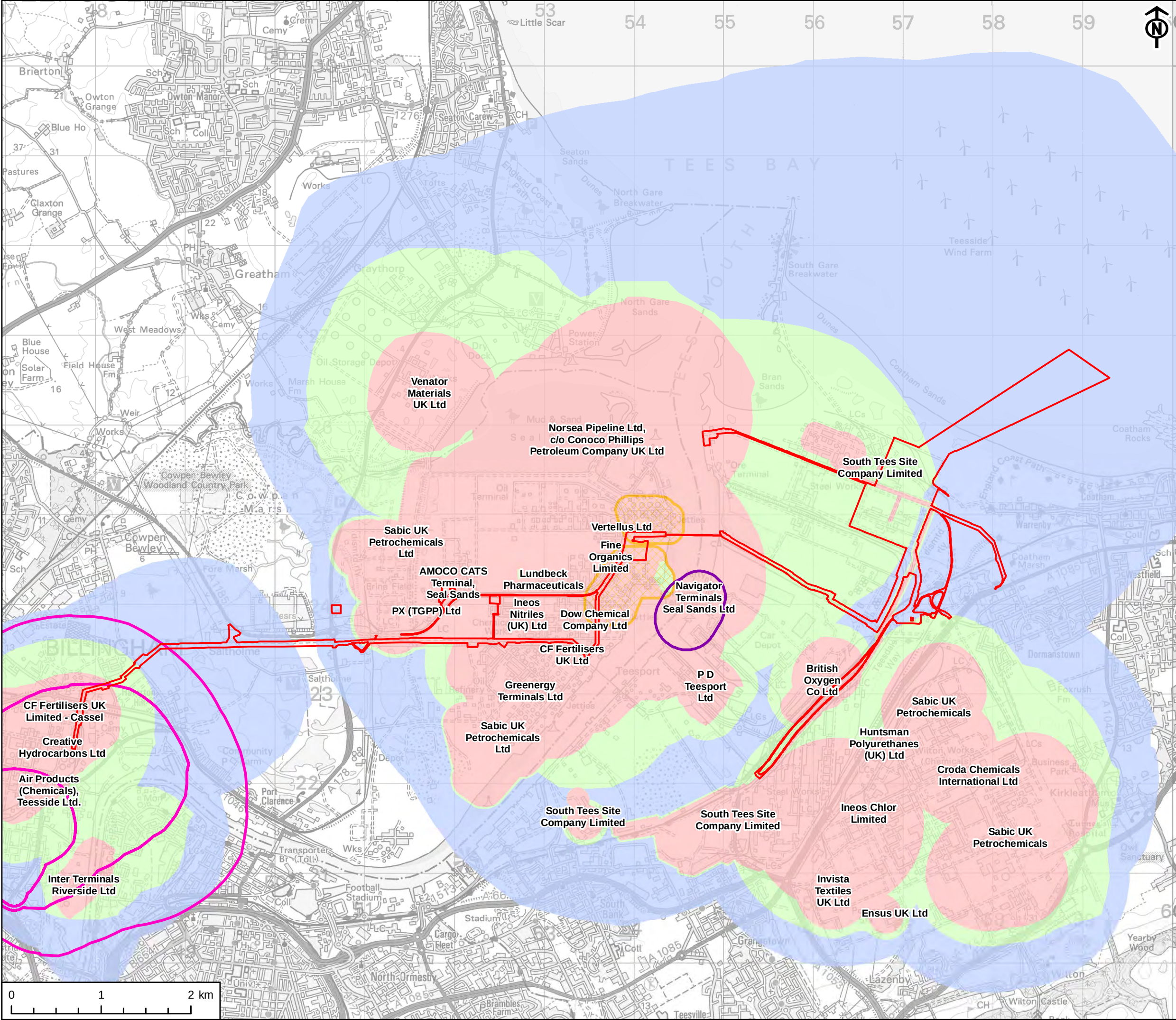
- KEY
- Site Boundary
 - 1km Study Area
 - UKHO Wrecks and Obstructions - Point
 - UKHO Wrecks and Obstructions - Polygon
 - Protected Wreck
 - Maritime Heritage Assets - Point
 - Post-Medieval
 - Modern
 - Unknown
 - Maritime Heritage Assets - Polygon
 - Prehistoric
 - Medieval
 - Post-Medieval
 - World War I
 - World War II
 - Modern

TITLE
FIGURE 19-1
LOCATION OF MARINE HERITAGE
ASSETS IN THE 1KM STUDY AERA

REFERENCE
NZN_250121_ES_19-1_v6

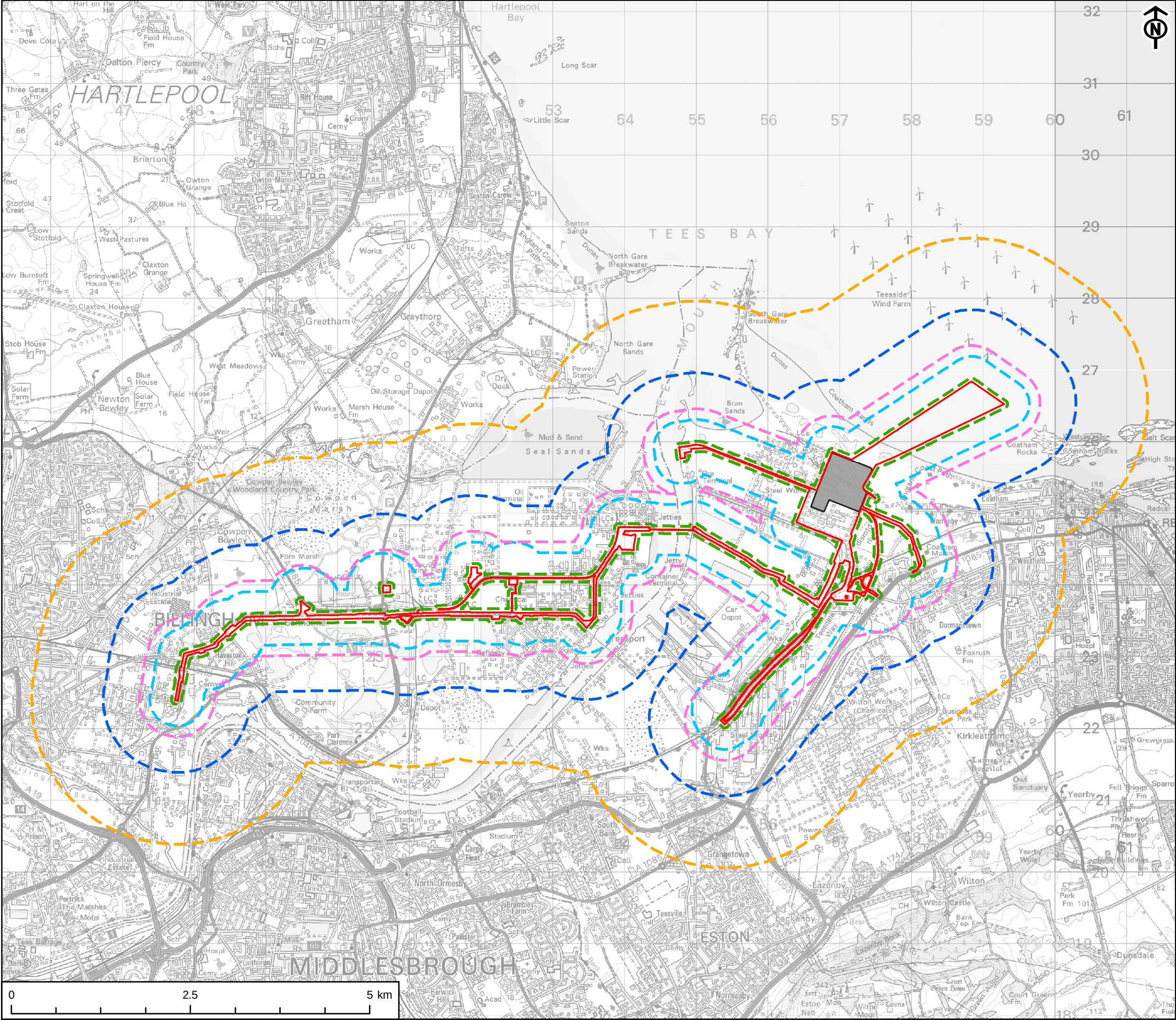
SHEET NUMBER
1 of 1

DATE
21/01/2025



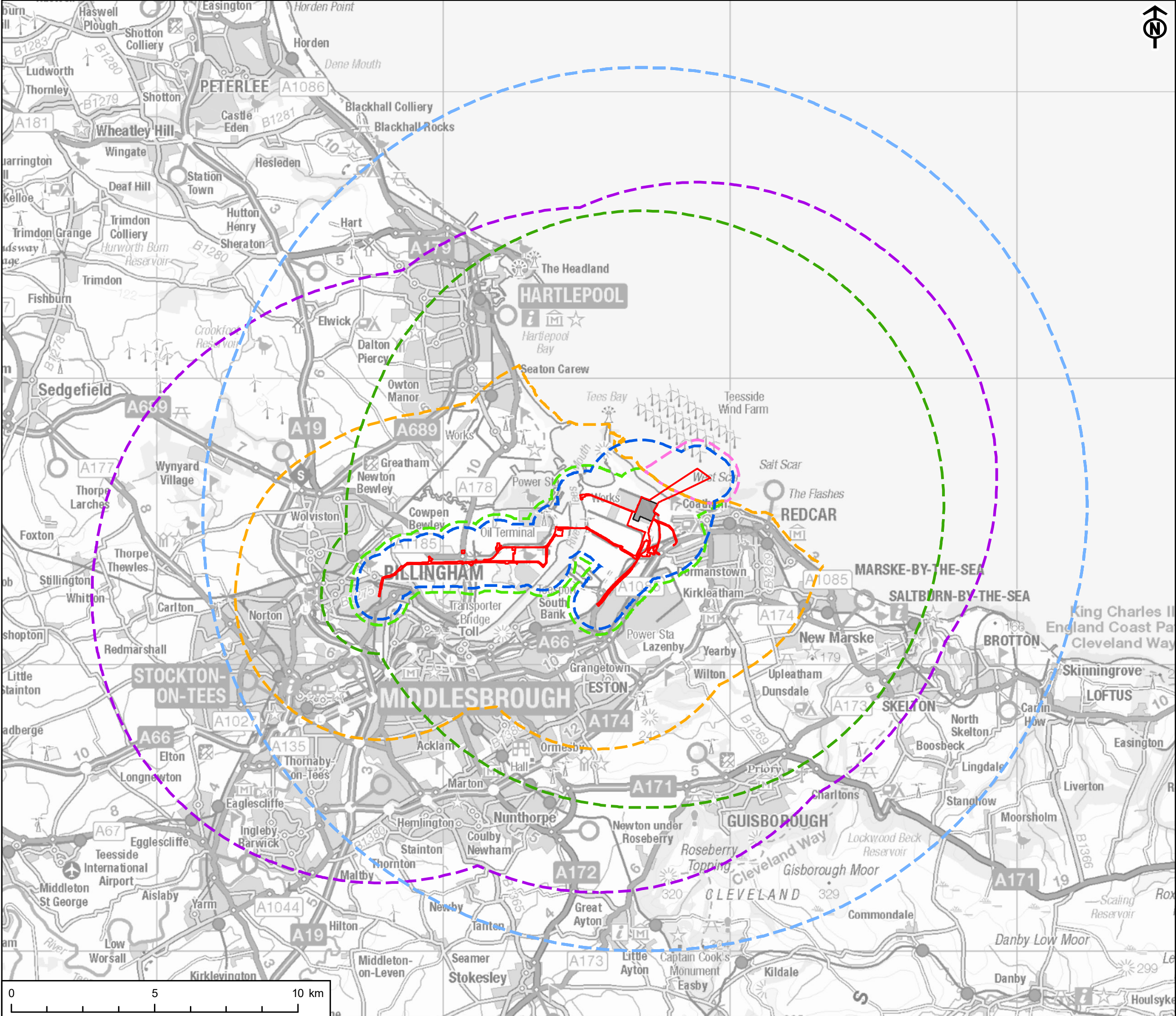
KEY	
	Site Boundary
	HSE Explosive Safeguarding Zone
	HSE Interim Zone
	HSE Development Proximity Consultation Zone
	HSE Inner Consultation Zone
	HSE Middle Consultation Zone
	HSE Outer Consultation Zone

Note:
The HSE zones shown are those that intersect the Site Boundary. The zones shown are consolidated (i.e. merged). There may be other HSE consultation zones in this mapped area that are not displayed as they do not intersect the Site Boundary.



- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Zone of Influence
 - Air Quality - Construction - 350m from proposed Site Boundary and 500m from site entrances
 - Vibration - Construction - 50m from proposed Site Boundary
 - Geology and Hydrogeology - 500m from proposed Site Boundary
 - Hydrology and Water Resources - 1km from proposed Site Boundary
 - Aquatic Ecology, Terrestrial Ecology and Ornithology and Nature Conservation - 2km from proposed Site Boundary

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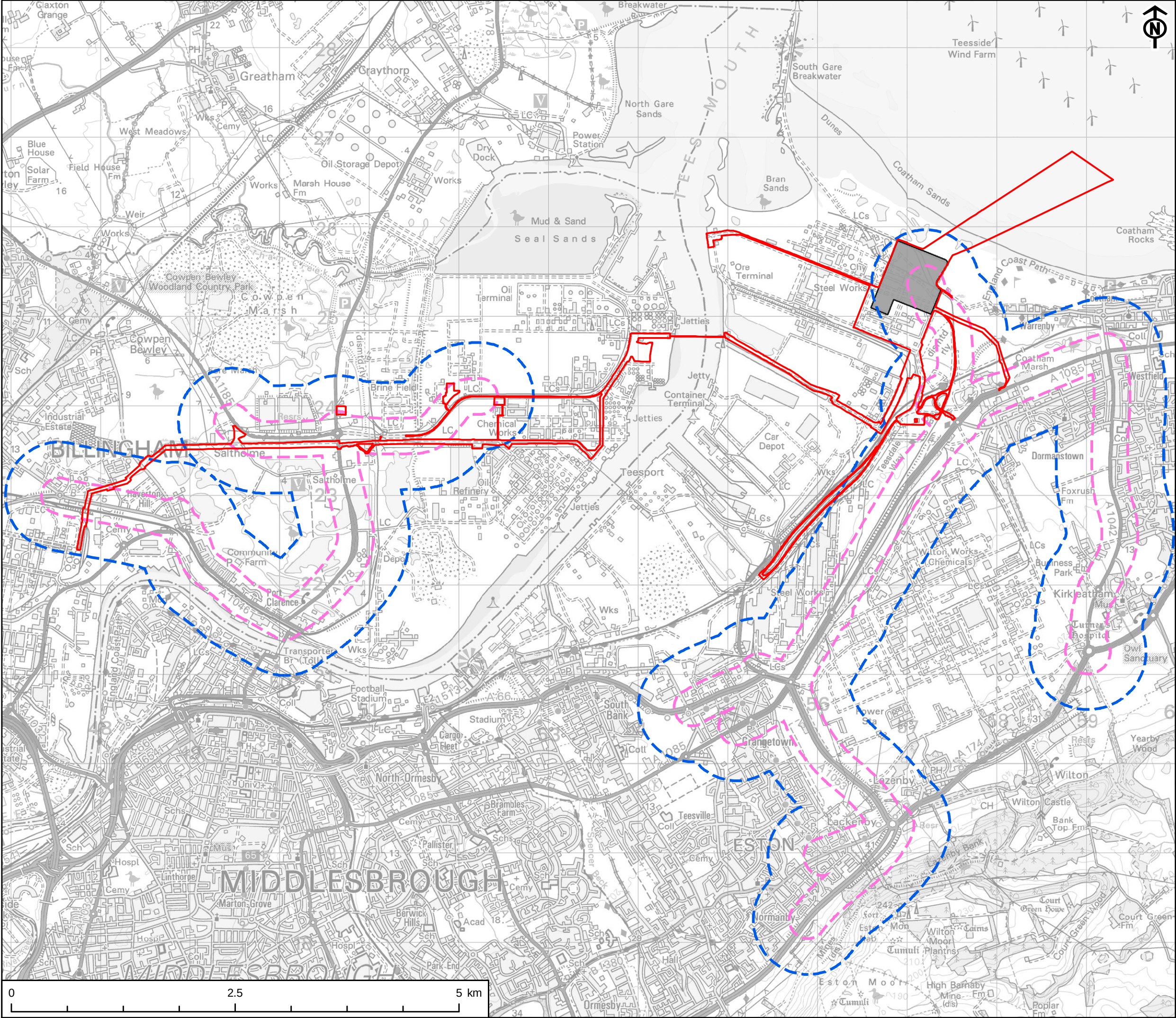
- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Zone of Influence
 - Noise – Construction and Operation - Combined Study Area. See Table 24-1, ES Chapter 24, for further detail
 - Marine Heritage - 1km from proposed Site Boundary (Offshore only)
 - Archaeology and Cultural Heritage - Non-Designated Assets - 1km from proposed Site Boundary (Onshore only)
 - Archaeology and Cultural Heritage - Designated Assets - 5km from proposed Site Boundary (Onshore only)
 - Marine Ecology and Nature Conservation - 10km from proposed Site Boundary
 - Landscape and Visual Amenity - 10km from proposed PCC Site and 2km from proposed Site Boundary where that extends beyond 10km from the PCC Site
 - Air Quality (Operation), Marine Ecology (Air Quality Effects), and Terrestrial Ecology, Aquatic Ecology and Ornithology and Nature Conservation (International and National Nature Conservation Designations) - 15km from proposed PCC Site

TITLE
FIGURE 24-1
ZONES OF INFLUENCE FOR CUMULATIVE
EFFECTS ASSESSMENT

REFERENCE
NZT_250121_ES_24-1_v10

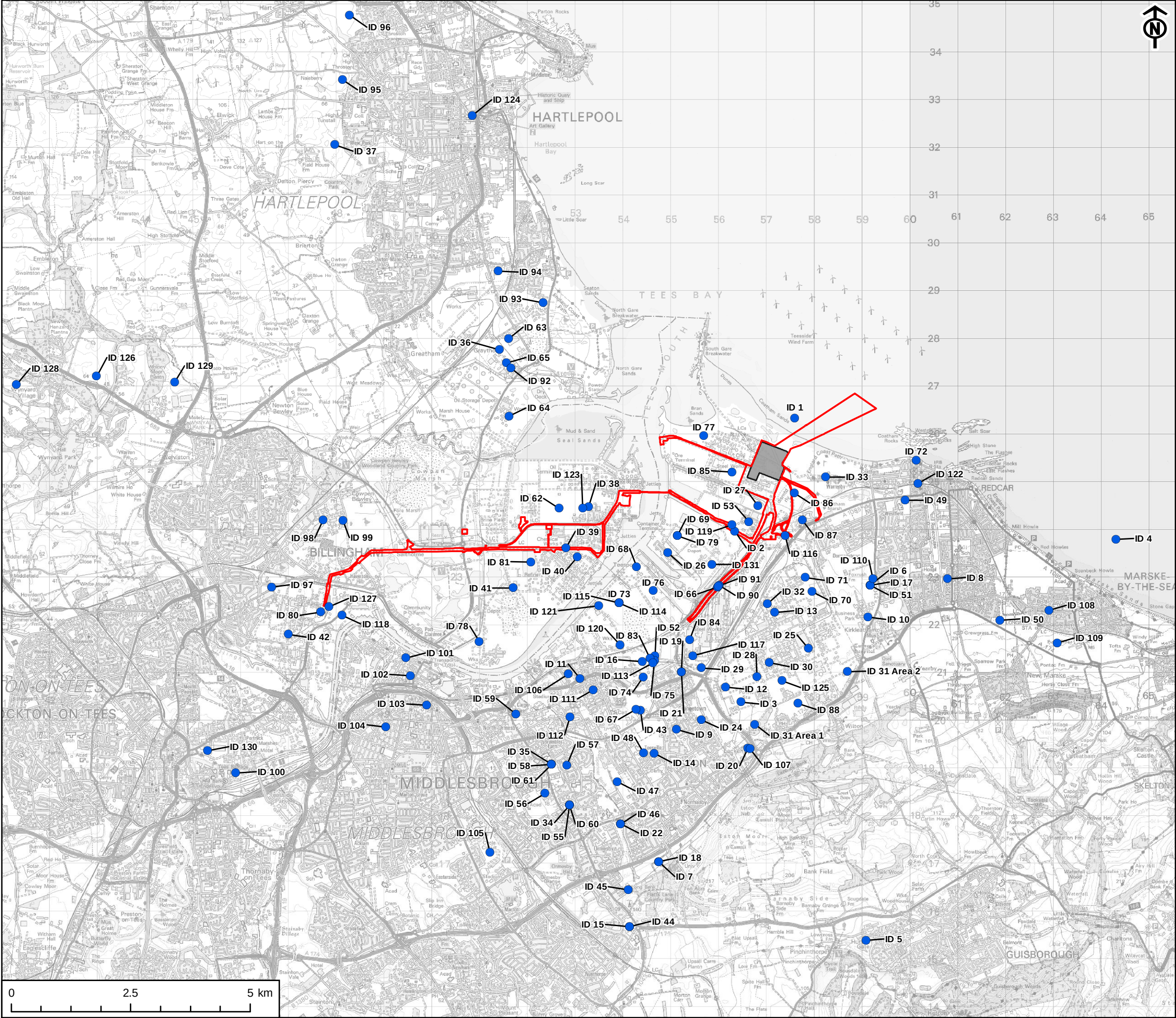
SHEET NUMBER
2 of 3

DATE
21/01/2025

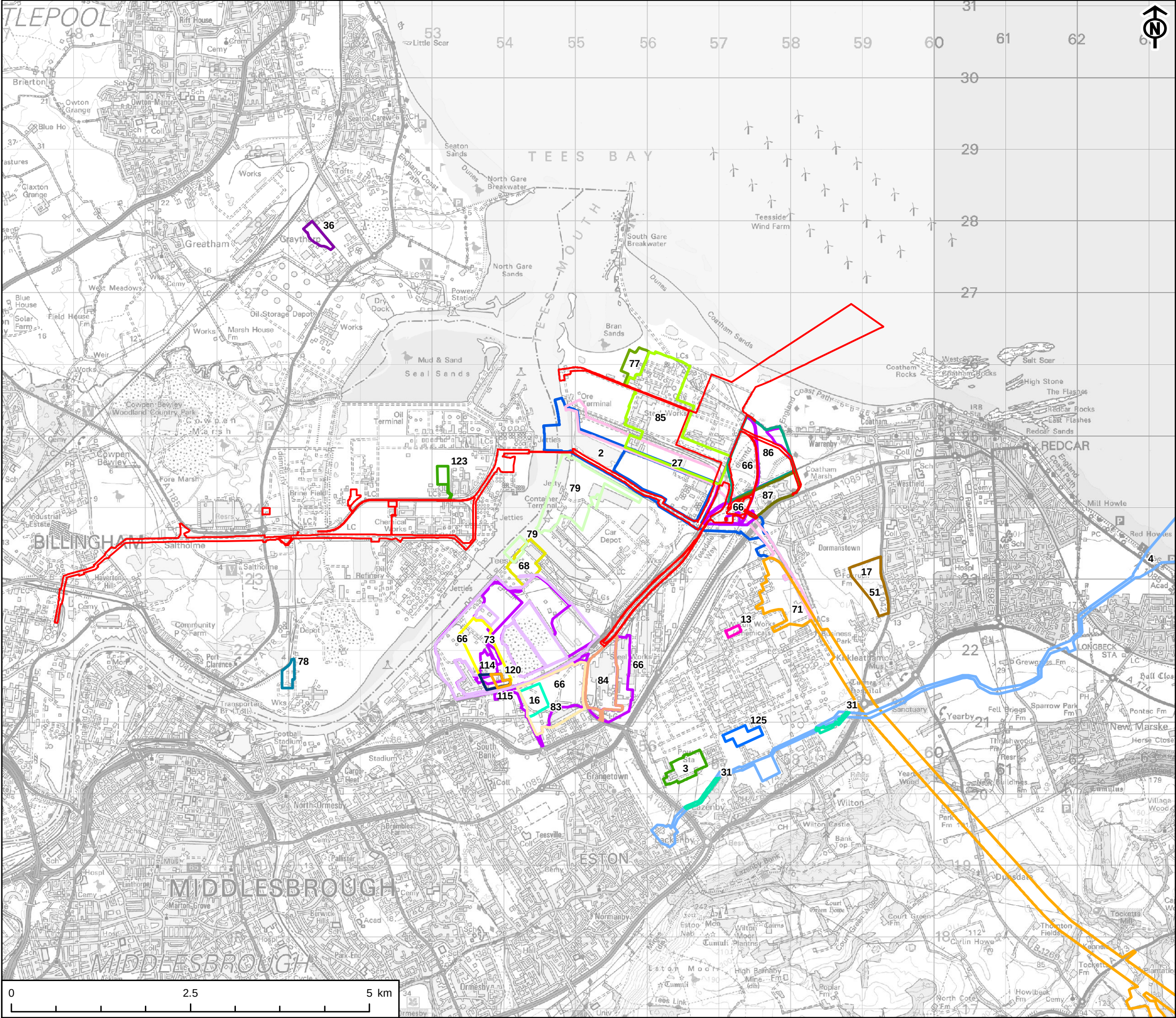


- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Zone of Influence
 - Air Quality - Traffic Air Quality - 200m from affected roads
 - Noise and Vibration - Traffic Noise - 600m from affected roads

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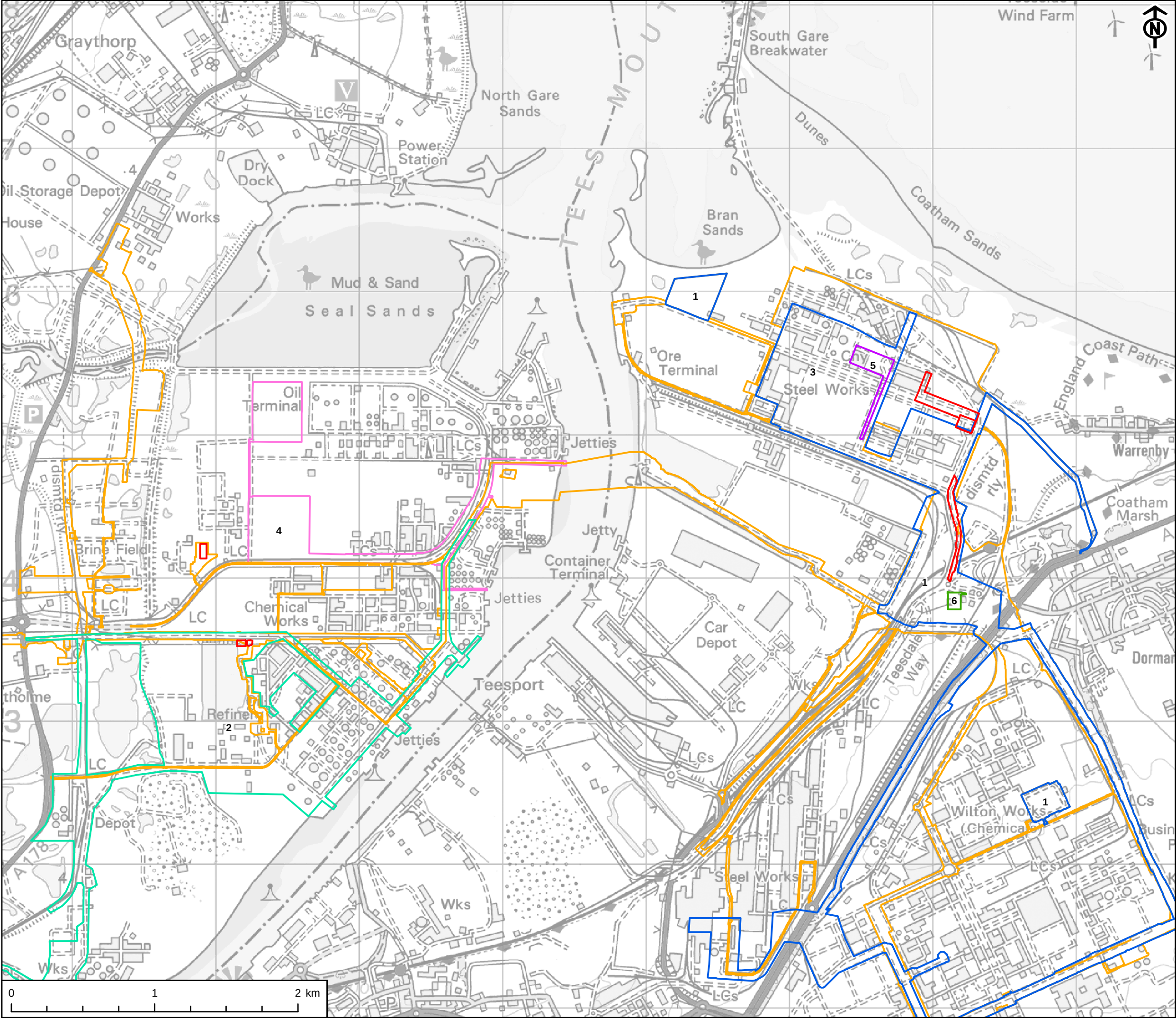


- KEY
- Site Boundary
 - Power, Capture and Compressor Site
 - Long List of Other Developments



2	77
3	78
4	79
13	83
16	84
17 & 51	85
27	86
31	87
36	114
66	115
68	120
71	123
73	125

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- 1
- 2
- 3
- 4
- 5
- 6

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