Outer Dowsing Offshore Wind

Environmental Statement

Chapter 21 Onshore Ecology

Volume 3 Appendices

Appendix 21.2 UK Habitat Survey Report

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Volume 3, Appendix 21.2: UK Habitat Classification Survey

Outer Dowsing Offshore Wind Environmental Statement

GoBe Consultants Ltd

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SLR Project No.: 410.V05356.00013

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1 March 2024

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Revision	Date	Prepared By	Checked By	Authorised By
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Basis of Report

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Acronyms and Terminology

Acronyms

Acronyms and Abbreviations	Description
ACIEEM	Associate Member of the Chartered Institute of Ecology and Environmental Management
ASNW	Ancient Semi-Natural Woodland
BAP	Biodiversity Action Plan
BNG	Biodiversity Net Gain
CEnv	Chartered Environmentalist
CFGM	Coastal and Floodplain Grazing Marsh
CIEEM	Chartered Institute of Ecology and Environmental Management
DCO	Development Consent Order
ECC	Onshore Export Cable Corridor
EIA	Environmental Impact Assessment
ES	Environmental Statement
GIS	Geographical Information System
GLNP	Greater Lincolnshire Nature Partnership
HAP	Habitat Action Plans
HPI	Habitats of Principal Importance
INNS	Invasive Non-Native Species
IUCN	International Union for Conservation of Nature
JNCC	Joint Nature Conservation Committee
LCGM	Lincolnshire Coastal Grazing Marshes
LEPO	Long-Established Woodlands of Plantation Origin
LNR	Local Nature Reserve
LWS	Local Wildlife Site
MAGIC	Multi-Agency Geographical Information for the Countryside
MMU	Minimum Mapping Unit
NE	Natural England
NERC Act	Natural Environment and Rural Communities Act 2006
NGSS	National Grid substation
NPPF	National Planning Policy Framework
NSIP	Nationally Significant Infrastructure Project
NTM	National Tree Map
ODOW	Outer Dowsing Offshore Wind
OnSS	Onshore Substation

PAWS	Plantations on Ancient Woodland Sites
PEIR	Preliminary Environmental Information Report
PHI	Priority Habitat Inventory
PRoW	Public Rights of Way
SSSI	Site of Special Scientific Interest
Sp.	Species
WFD	Water Framework Diretive

Terminology

400kV cables	High voltage cables linking the OnSS to the NGSS.
400kV cable corridor	The 400kV cable corridor is the area within which the 400kV cables connecting the onshore substation to the NGSS will be situated.
The Applicant	GT R4 Ltd. The Applicant making the application for a DCO. The Applicant is GT R4 Limited (a joint venture between Corio Generation, Total Energies and Gulf Energy Development (GULF)), trading as Outer Dowsing Offshore Wind. The Project is being developed by Corio Generation (a wholly owned Green Investment Group portfolio company), Total Energies and GULF.
Baseline	The status of the environment at the time of assessment without the development in place.
Biodiversity Net Gain	An approach to development that leaves biodiversity in a measurably improved state than it was previously. Where a development has an impact on biodiversity, developers are encouraged to provide an increase in appropriate natural habitat and ecological features over and above that being affected, to ensure that the current loss of biodiversity through development will be halted and ecological networks can be restored.
Connection Area	An indicative search area for the NGSS.
Development Consent Order (DCO)	An order made under the Planning Act 2008 granting development consent for a Nationally Significant Infrastructure Project (NSIP).
Environmental Impact Assessment (EIA)	A statutory process by which certain planned projects must be assessed before a formal decision to proceed can be made. It involves the collection and consideration of environmental information, which fulfils the assessment requirements of the EIA Regulations, including the publication of an Environmental Statement (ES).
Environmental Statement (ES)	The suite of documents that detail the processes and results of the EIA.
Export cables	High voltage cables which transmit power from the Offshore Substations (OSS) to the Onshore Substation (OnSS) via an Offshore Reactive Compensation Platform (ORCP) if required, which may include one or more auxiliary cables (normally fibre optic cables).
Impact	An impact to the receiving environment is defined as any change to its baseline condition, either adverse or beneficial.
Landfall	The location at the land-sea interface where the offshore export cables and fibre optic cables will come ashore.

Onshore Export Cable Corridor (ECC)	The Onshore Export Cable Corridor (Onshore ECC) is the area within which, the export cables running from the landfall to the onshore substation will be situated.
Onshore Infrastructure	The combined name for all onshore infrastructure associated with the Project from landfall to grid connection.
Onshore substation (OnSS)	The Project's onshore HVAC substation, containing electrical equipment, control buildings, lightning protection masts, communications masts, access, fencing and other associated equipment, structures or buildings; to enable connection to the National Grid.
Outer Dowsing Offshore Wind (ODOW)	The Project.
Order Limits	The area subject to the application for development consent, the limits shown on the works plans within which the Project may be carried out.
The Project	Outer Dowsing Offshore Wind, an offshore wind generating station together with associated onshore and offshore infrastructure.
Receptor	A distinct part of the environment on which effects could occur and can be the subject of specific assessments. Examples of receptors include species (or groups) of animals or plants, people (often categorised further such as 'residential' or those using areas for amenity or recreation), watercourses etc.
Study Area	Area(s) within which environmental impact may occur – to be defined on a receptor-by-receptor basis by the relevant technical specialist.

21.0 UK Habitat Classification Survey

21.1 Introduction

1. Outer Dowsing Offshore Wind (ODOW) is a Nationally Significant Infrastructure Project (NSIP). An Environmental Impact Assessment (EIA) has been undertaken, the findings of which are presented within an Environmental Statement (ES), which accompanies a Development Consent Order (DCO) application under the Planning Act 2008.

2. SLR Consulting was commissioned by GoBe Consultants Ltd, whom has been instructed by GT R4 Limited (trading as ODOW Offshore Wind), on behalf of ODOW, to undertake a habitat survey of areas that may be affected by the construction and operation of the onshore aspects of the Project (see Volume 1, Chapter 3: Project Description (document reference 6.1.3).

3. This report presents the findings of the habitat survey undertaken between November 2022 and October 2023. It seeks to establish baseline conditions and identify habitats that are important ecological features (irrespective of the animal species they may support) and is presented as an appendix to support Volume 1, Chapter 21: Onshore Ecology (document reference 6.1.21) of the ES. The assessment of impacts resulting from the Project is covered in the Chapter 21 (document reference 6.1.21).

4. Initial identification and classification of similar habitat types (i.e., habitat polygons and linear features) had previously been undertaken primarily via interpretation of aerial imagery in April and May 2022 and refined in May 2022, with additional ground-truthing of sample areas in July 2022 as reported in the Preliminary Environmental Information Report (PEIR) Volume 2, Appendix 21.2: Initial Habitat Study (SLR Consulting, 2023b).

21.1.1 The Project

5. The Project will include both offshore and onshore infrastructure including an offshore generating station (windfarm) located approximately 54km from the Lincolnshire coastline, export cables to landfall, onshore cables, an onshore substation, connection to the electricity transmission network, and ancillary and associated development (see Volume 1, Chapter 3: Project Description 6.1.3 (document reference 6.1.3) for full details).

6. The ES references the Project's 'Order Limits' which comprises the extent of the land for which the DCO application has been made. Onshore it reflects the landfall, the Onshore Export Cable Corridor (a typically80m wide corridor around a centre line totalling approximately 70km in length)the Onshore substation (OnSS), a 400kV cable corridor connecting the OnSS to the Connection Area (an indicative search zone for the National Grid substation (NGSS) in to which the project will ultimately connect.

7. Due to the linear footprint of the Project, the Survey Area for some receptors is relatively large-scale, therefore to assist with the interpretation and explanation of associated data, the Order Limits have been split into segments. The extent of these segments has been aligned with key geographical features such as roads or rivers which cross the Order Limits.

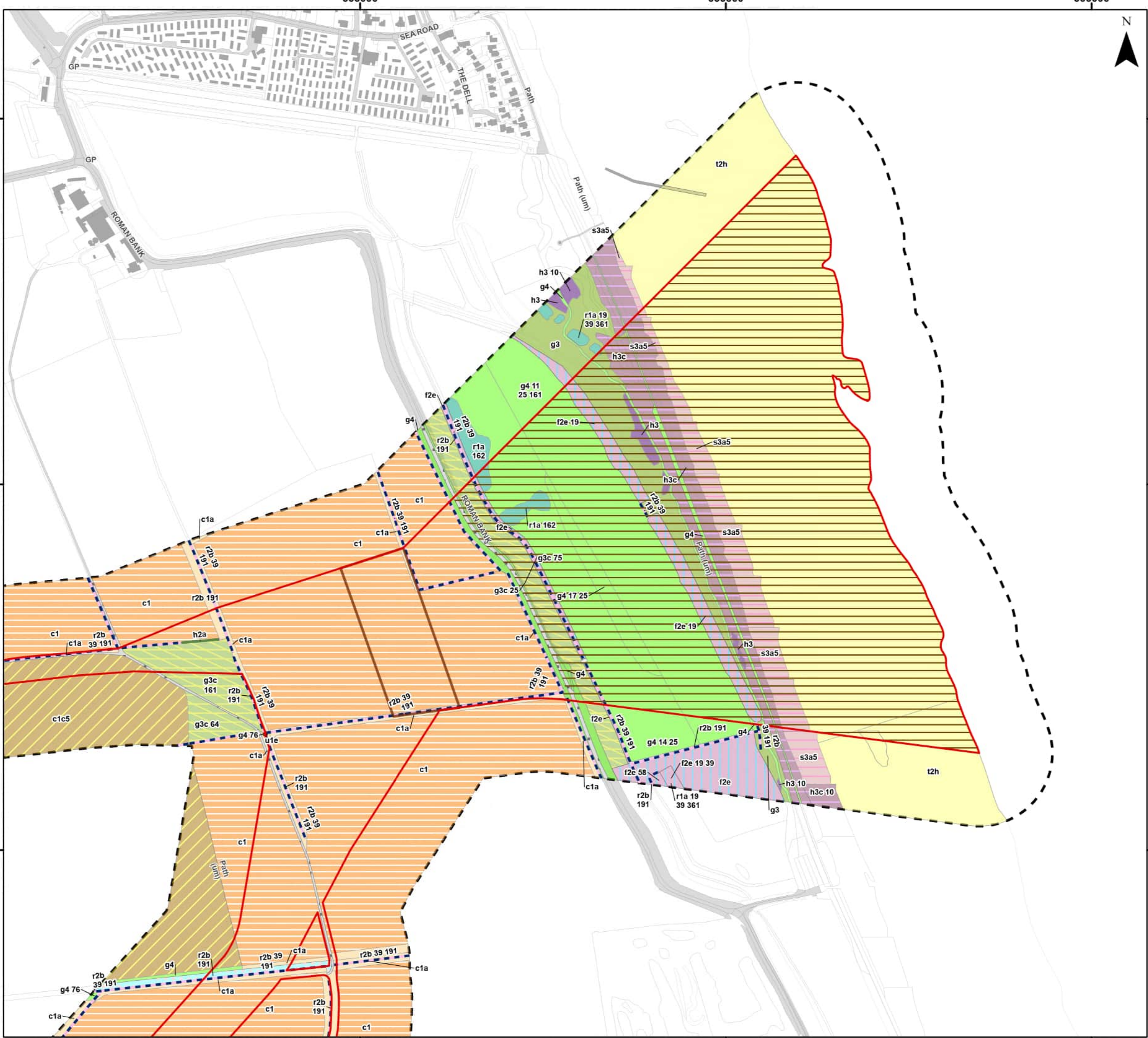
8. The segments for the onshore Order Limits are shown in Table 21.1 below.

Table 21.1: Onshore Order Limits Segment Names

Segment Name
ECC 1: Landfall to A52 – Hogsthorpe
ECC 2: A52 – Hogsthorpe to Marsh Lane
ECC 3: Marsh Lane to A158 - Skegness Road
ECC 4: A158 – Skegness Road to Low Road
ECC 5: Low Road to Steeping River
ECC 6: Steeping River to Fodder Dike Bank/Fen Bank
ECC 7: Fodder Dike Bank/Fen Bank to Broadgate
ECC 8: Broadgate to Ings Drove
ECC 9: Ings Drove to Church End Lane
ECC 10: Church End Lane to The Haven
ECC 11: The Haven to Marsh Road
ECC 12: Marsh Road to Fosdyke Bridge
ECC 13: Surfleet Marsh OnSS/Marsh Drove to the NGSS
ECC 14: Surfleet Marsh OnSS/Marsh Drove to Connection Area

21.1.2 Survey Area

9. The survey area for the habitat assessment initially considered the Project's onshore boundary (as documented in the PEIR) plus a 100m buffer radius from it, that was under consideration at the time of the initial habitat surveys (SLR Consulting, 2023a). As the project design has progressed, the proposed project footprint and buffer zones have been reduced to the impacted areas of the Order Limits. plus a 100m buffer radius. The habitat survey area is shown across Figures 21.2.1.1 – 21.2.1.53.



Legend

Order Limits

Order Limits 100 m Buffer

Landfall Trenchless Works Area

Transition Joint Bay Area

UK Habitat Classification

Urban - Built-up Areas and Gardens

u1e - Built Linear Features

Heathland and Shrub - Hedgerows

h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c5 - Winter Stubble

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3 - Dense Scrub

h3c - Sea Buckthorn Scrub

Marine Inlets and Transitional Waters - Littoral Sediment

t2h - Beach

Rivers and Lakes - Standing Open Water and Canals

r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Sparsely Vegetated Land - Supralittoral Sediment

s3a5 - Embryonic Shifting Dunes (H2110)

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

Wetland - Fen Marsh and Swamp

f2e - Reedbeds

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

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UK Habitat Survey Results

Figure 21.2.1.1

OUTER DOWSING OFFSHORE WIND

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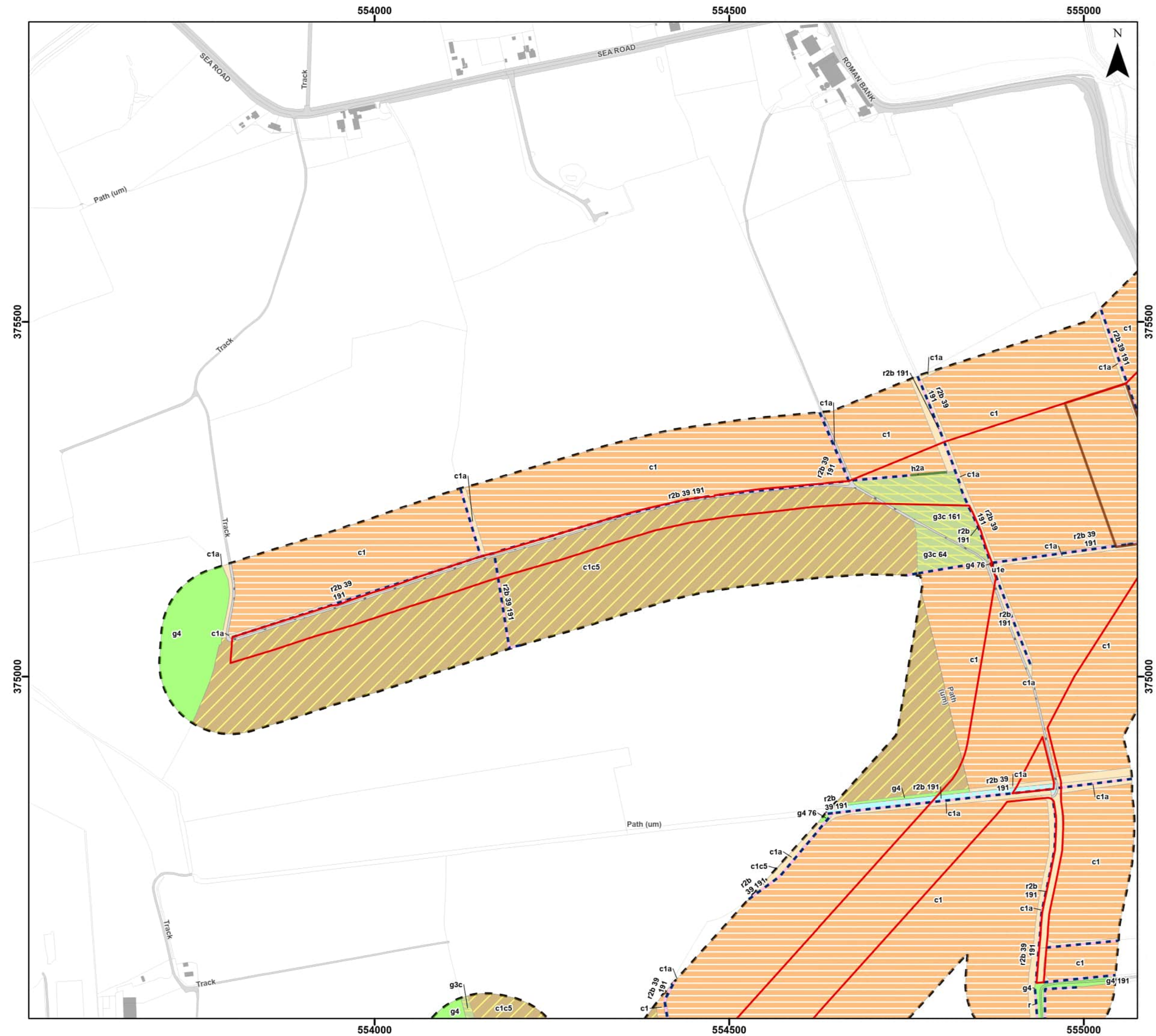

Legend

Order Limits
Order Limits 100 m Buffer
Transition Joint Bay Area

UK Habitat Classification

Urban - Built-up Areas and Gardens
u1e - Built Linear Features
Heathland and Shrub - Hedgerows
h2a - Hedgerow Priority Habitat
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins
c1c5 - Winter Stubble
Grassland - Neutral Grassland
g3c - Other Neutral Grassland
Grassland - Modified Grassland
g4 - Modified Grassland
Rivers and Lakes - Standing Open Water and Canals
r - Rivers and Lakes
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

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Figure 21.2.1.2

OUTER DOWSING OFFSHORE WIND

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554000
554500
555000
374500
374000
373500
N
Path (um)
Track
EMBER LANE
STONE'S LANE
c1
c1a
c1c5
g4
g3c
h2
h2a
r2b 39 191
r2b 191
g4 191
g4 76
w1 47

Legend

Order Limits
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c5 - Winter Stubble

Grassland - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Standing Open Water and Canals
- r - Rivers and Lakes

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

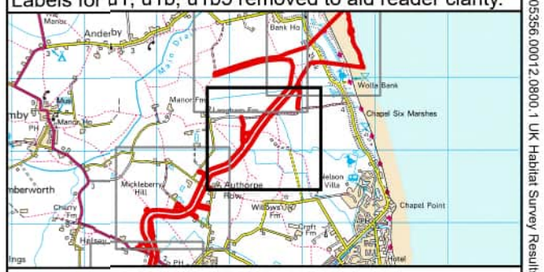

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Figure 21.2.1.3

OUTER DOWSING OFFSHORE WIND

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SLR

552500 553000 553500 554000

374000 373500 373000

N

Path (um)

GREEN LANE (TRACK)

WILLEY'S LANE

Track

LANGHAM ROAD

LOWGATE ROAD

LANGHAM ROAD

Track

Track

Track

Track

ECC 1: Landfall to A52 - Hogsthorpe

ECC 2: A52 - Hogsthorpe to Marsh Lane

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat
- h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c - Cereal Crops
- c1c5 - Winter Stubble

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3h - Mixed Scrub

Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1d - Wet Woodland
- w1g7 - Other Broadleaved Woodland Types

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

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Figure 21.2.1.4

OUTER DOWSING OFFSHORE WIND

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552500
553000
553500
372500
372000
371500
N
ECC 1: Landfall to A52 - Hogsthorpe
ECC 2: A52 - Hogsthorpe to Marsh Lane
WEST END
HIGH STREET
THAMES STREET
THAMES CRESCENT
CARSON CLOSE
TAVERN LANE
BAGKEN LANE
LISTOFT LANE
SOUTH END
ST MARYS CLOSE
A52
Track
Path
Path (um)
GP
Legend
Order Limits
Onshore Segment Break
Order Limits 100 m Buffer
UK Habitat Classification
Heathland and Shrub - Hedgerows
h2 - Hedgerow
h2a - Hedgerow Priority Habitat
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1g6 - Line of Trees
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins
c1c - Cereal Crops
c1c5 - Winter Stubble
c1c6 - Game Bird Mix Fields
Grassland
g - Grassland
Grassland - Neutral Grassland
g3 - Neutral Grassland
g3c - Other Neutral Grassland
Grassland - Modified Grassland
g4 - Modified Grassland
Heathland and Shrub - Dense Scrub
h3 - Dense Scrub
h3f - Hawthorn Scrub
h3h - Mixed Scrub
Rivers and Lakes - Standing Open Water and Canals
r1a - Eutrophic Standing Waters
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
u1b5 - Building
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1 - Broadleaved Mixed and Yew Woodland
w1g - Other Woodland; Broadleaved
Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.
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Figure 21.2.1.5
OUTER DOWSING OFFSHORE WIND
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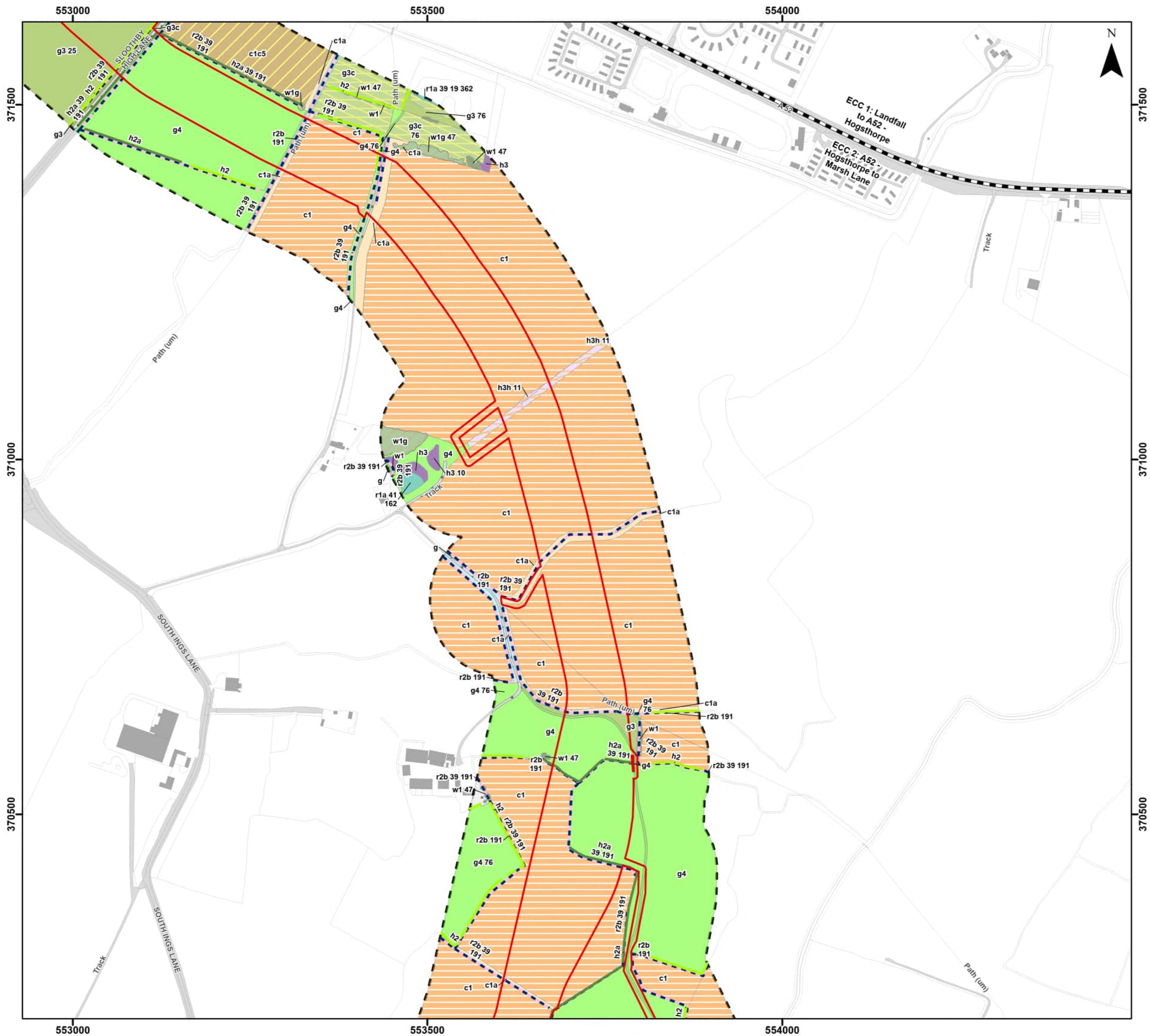

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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c5 - Winter Stubble

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3h - Mixed Scrub

Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1g - Other Woodland; Broadleaved

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

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0 50 100 200 Metres

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Figure 21.2.1.6

OUTER DOWSING OFFSHORE WIND

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SLR

553000
553500
554000
370000
369500
369000
N
Track
SOUTHINGS LANE
ECC 2: A52 - Hogsthorpe to Marsh Lane
ECC 3: Marsh Lane to A158 - Skegness Road
GREY ROAD
Red Gowt
GP
c1
c1a
g4
g4 76
h2
h2a
r2b
r2b 191
r2b 39 191
h2a 39 191
w1 47

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
h2 - Hedgerow
h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins

Grassland - Modified Grassland
g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden

Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

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Figure 21.2.1.7

OUTER DOWSING OFFSHORE WIND

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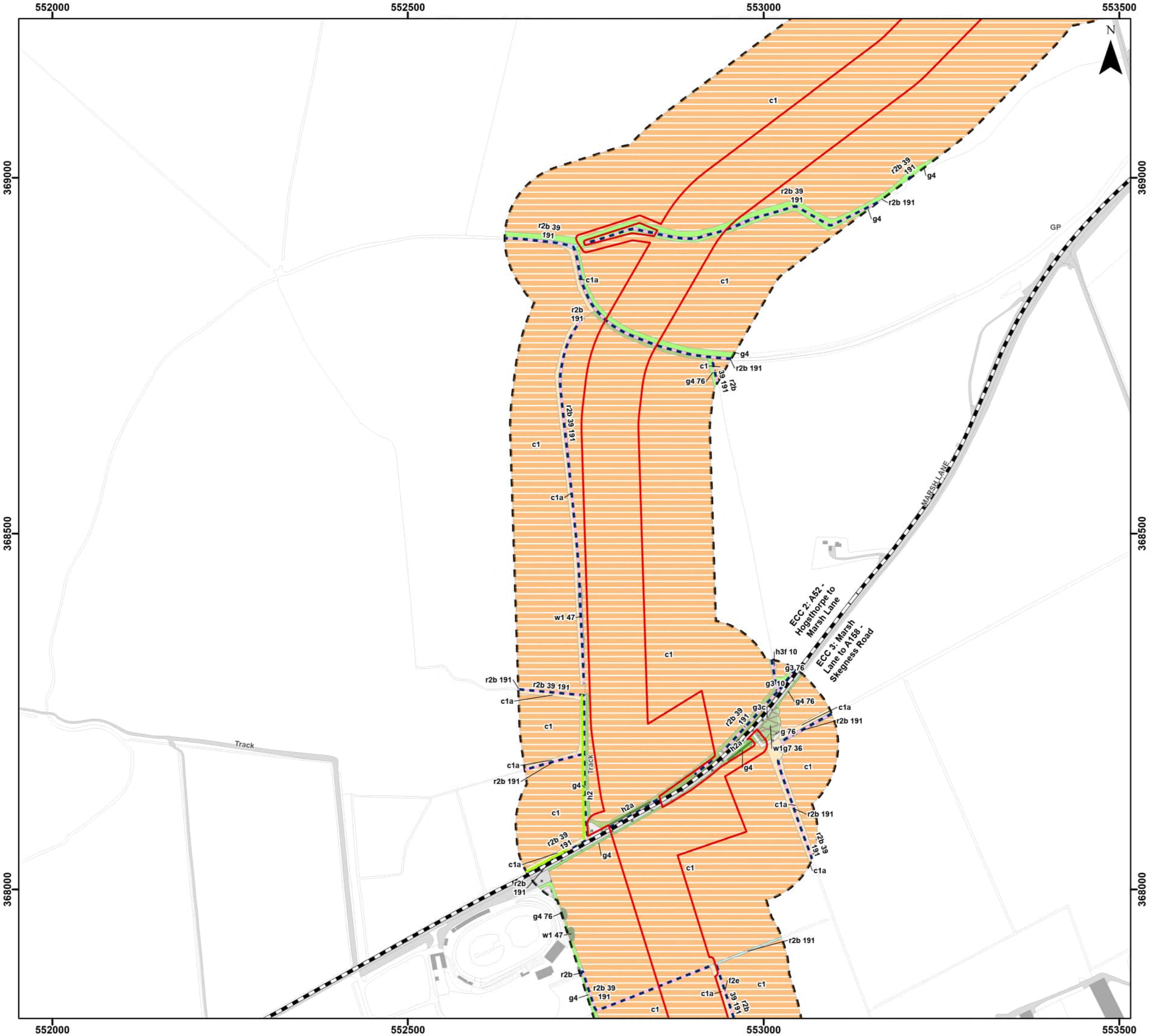

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

- c1 - Arable and Horticulture
- c1a - Arable Field Margins

Grassland

- g - Grassland

Grassland - Neutral Grassland

- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland

- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

- h3f - Hawthorn Scrub

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

- u1 - Built-up Area and Garden
- u1b5 - Building

Wetland - Fen Marsh and Swamp

- f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland

- w1 - Broadleaved Mixed and Yew Woodland
- w1g7 - Other Broadleaved Woodland Types

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

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Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.8

OUTER DOWSING OFFSHORE WIND

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Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
h2 - Hedgerow
h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins

Grassland
g - Grassland

Grassland - Neutral Grassland
g3 - Neutral Grassland
g3c - Other Neutral Grassland

Grassland - Modified Grassland
g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
u1b5 - Building

Wetland - Fen Marsh and Swamp
f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1 - Broadleaved Mixed and Yew Woodland
w1g7 - Other Broadleaved Woodland Types

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.9

OUTER DOWSING OFFSHORE WIND

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552000 552500 553000 553500

367000 366500 366000

N

ROAD

GP

Track

YOUNGER'S LANE

YOUNGER'S LANE

u1c

Legend

- Order Limits
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building
- u1c - Artificial Unvegetated, Unsealed Surface

Wetland - Fen Marsh and Swamp
- f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.10

OUTER DOWSING OFFSHORE WIND

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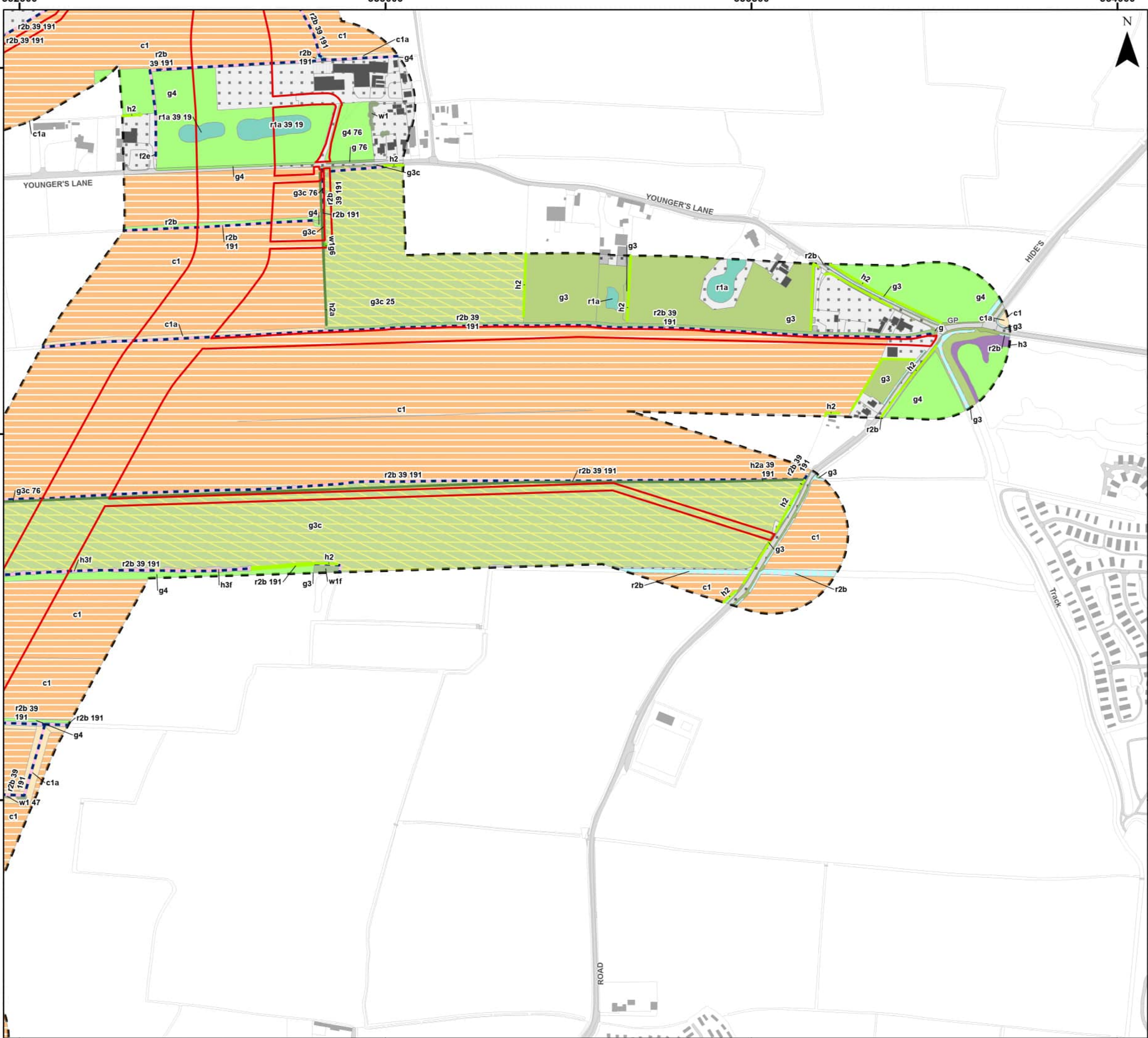

Legend

Order Limits	Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3f - Hawthorn Scrub

Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Wetland - Fen Marsh and Swamp
- f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1f - Lowland Mixed Deciduous Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.11

OUTER DOWSING OFFSHORE WIND

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552000 552500 553000

365500 365000 364500

Track Track Track Track

SKEGNESS ROAD A158

ECC 3: Marsh Lane to A158 - Skegness Road

ECC 4: A158 Skegness Road to Low Road

Lay-by

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1a5 - Arable Margins Sown With Tussocky Grasses
- c1c5 - Winter Stubble

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3f - Hawthorn Scrub

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1f - Lowland Mixed Deciduous Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.12

OUTER DOWSING OFFSHORE WIND

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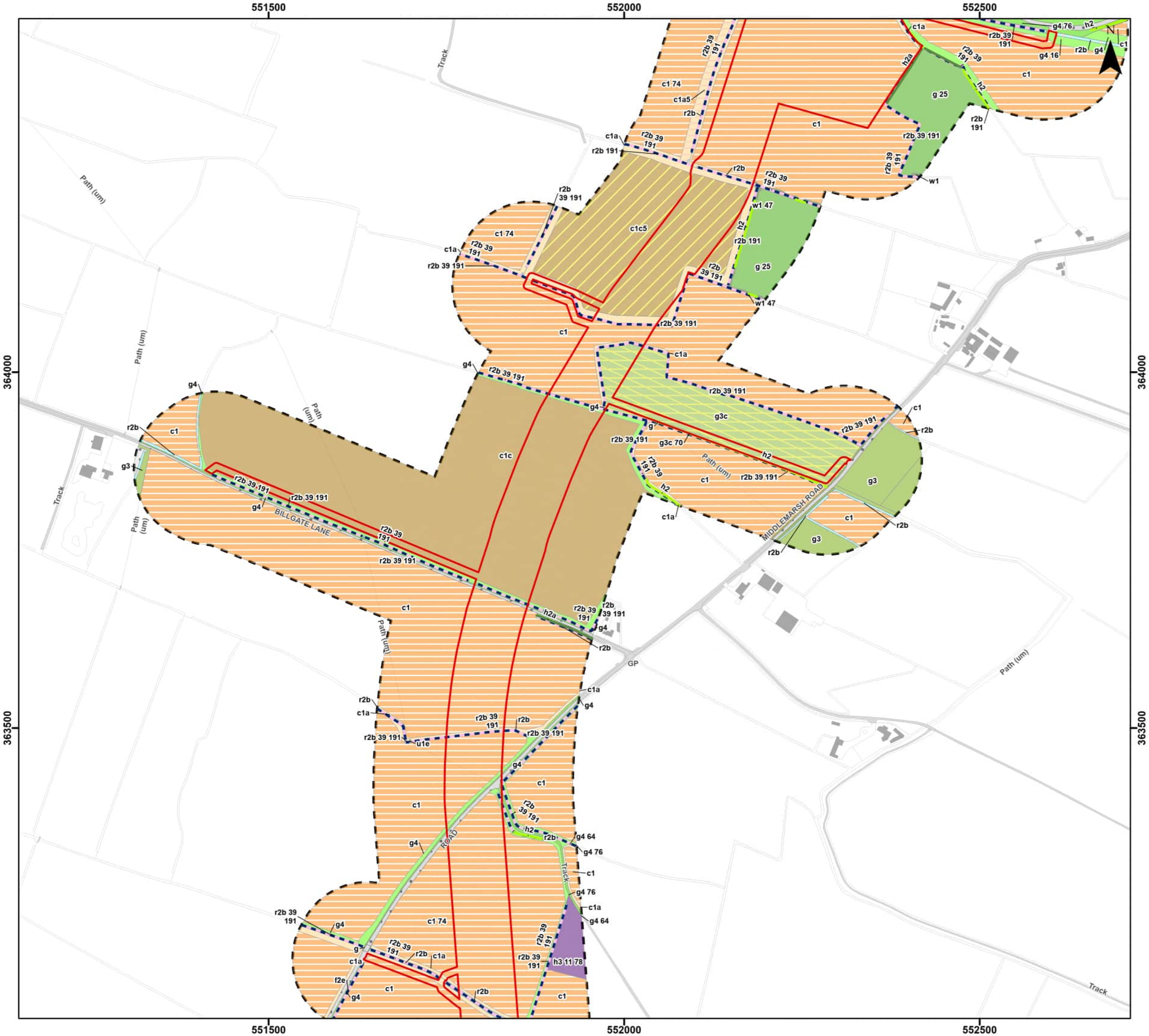


Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1a5 - Arable Margins Sown With Tussocky Grasses

c1c - Cereal Crops

c1c5 - Winter Stubble

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3 - Dense Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

u1e - Built Linear Feature

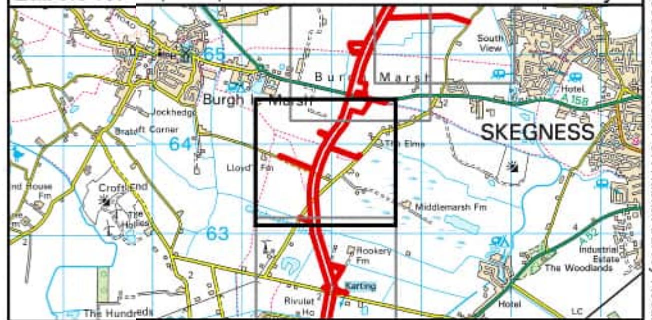
Wetland - Fen Marsh and Swamp

f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.13

OUTER DOWSING OFFSHORE WIND

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551500 552000 552500

363000 362500 362000

N

MIDDLEMARSH ROAD
LOW ROAD
ECC 4: A158 Skegness Road to Low Road
ECC 5: Low Road to Steeping River
PINCHBECK LANE
Track
Path (um)

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat
- h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c - Cereal Crops
- c1c5 - Winter Stubble

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3f - Hawthorn Scrub

Rivers and Lakes - Standing Open Water and Canals
- r - Rivers and Lakes

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Wetland - Fen Marsh and Swamp
- f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.14

OUTER DOWSING OFFSHORE WIND

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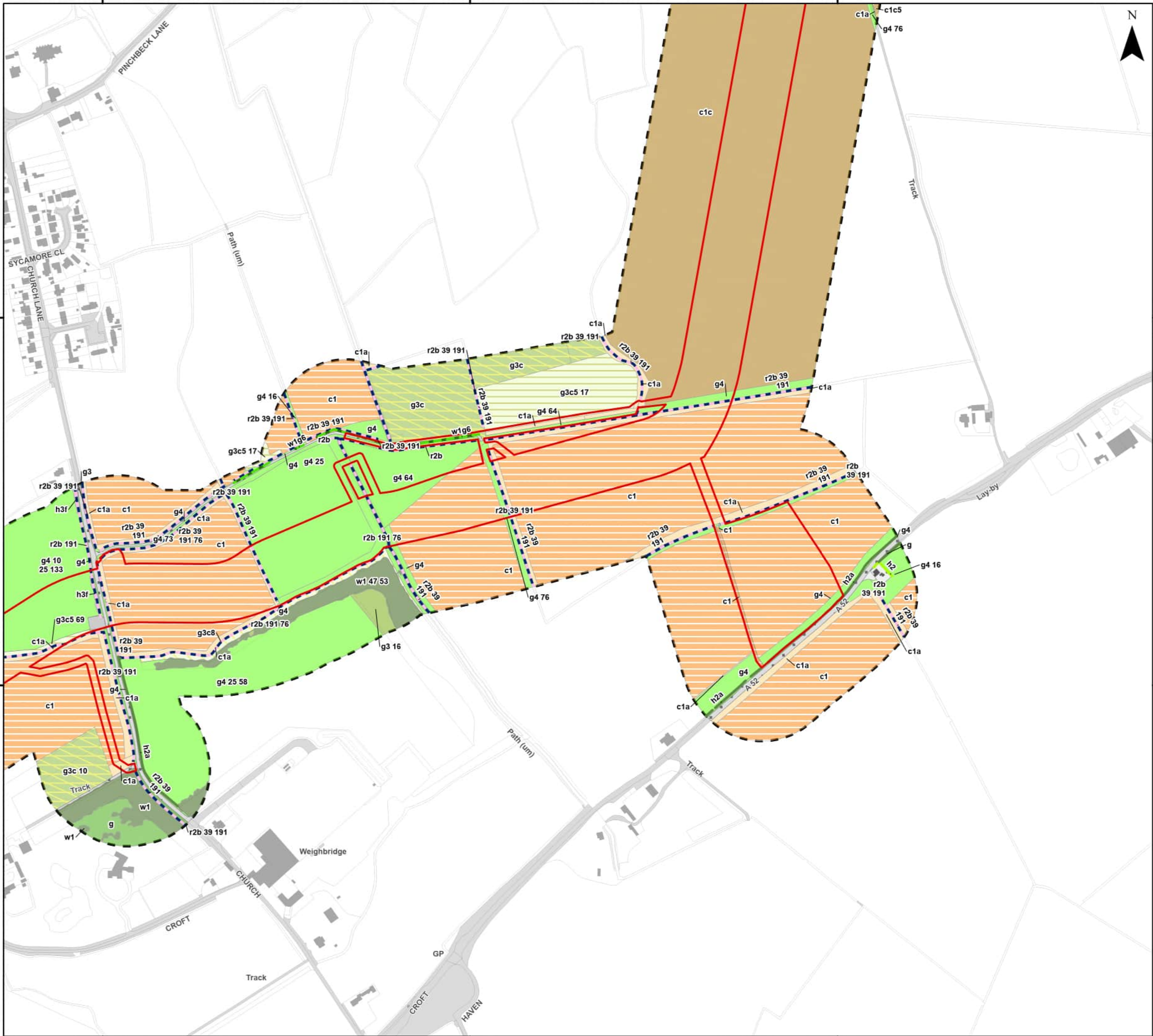

Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c - Cereal Crops

c1c5 - Winter Stubble

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

g3c5 - Arrhenatherum Neutral Grassland

g3c8 - Holcus-Juncus Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3f - Hawthorn Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

u1b - Developed Land; Sealed Surface

u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.15

OUTER DOWSING OFFSHORE WIND

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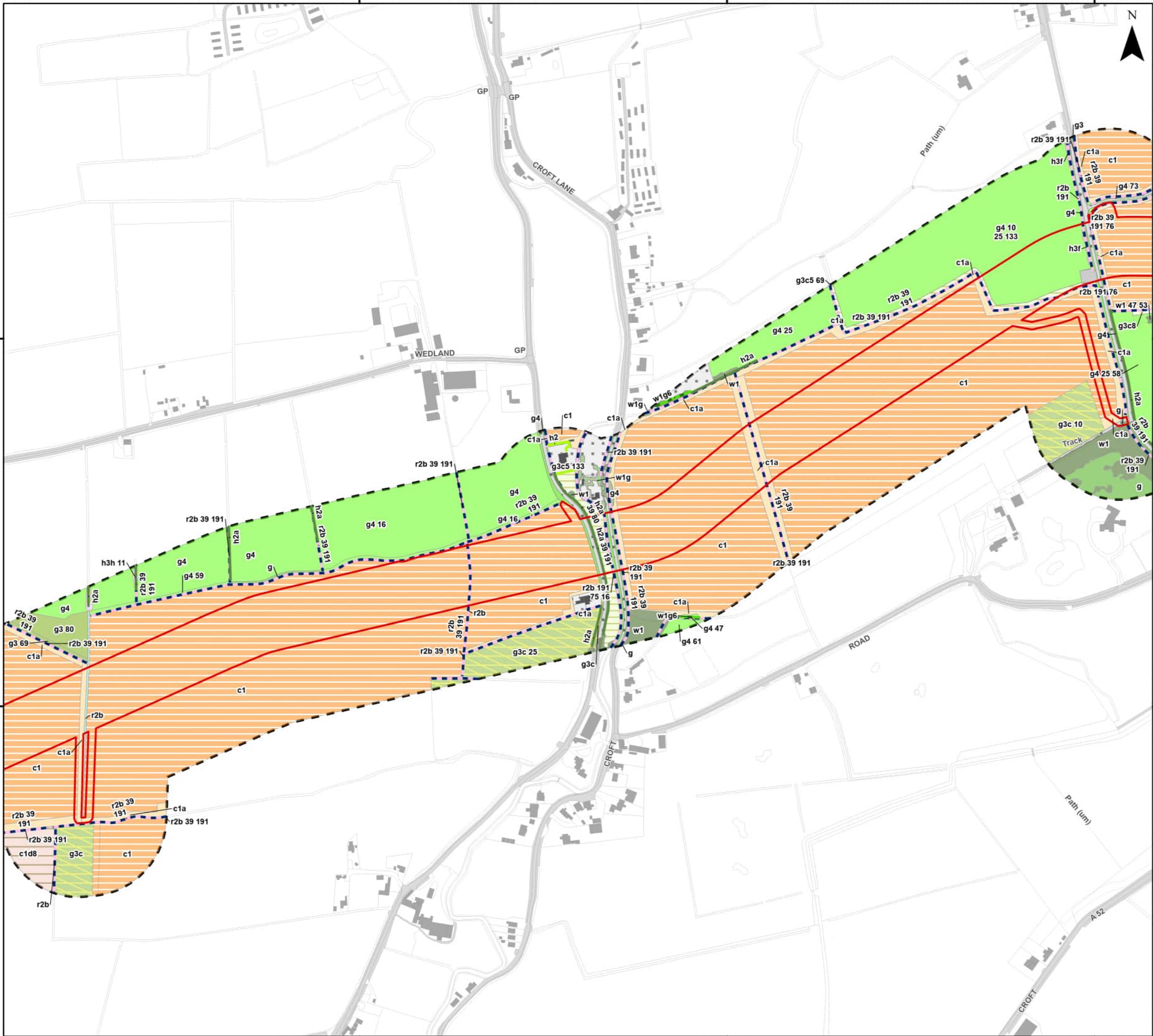

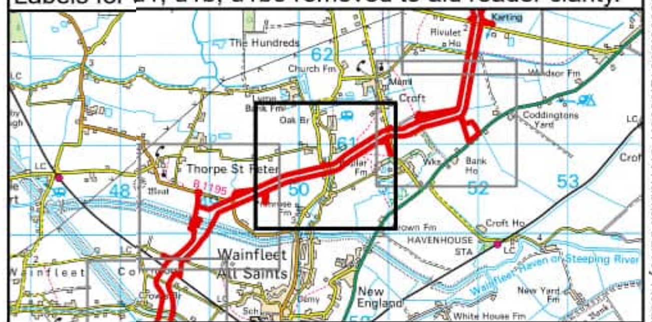

Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1d8 - Other Non-cereal Crops

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

g3c5 - Arrhenatherum Neutral Grassland

g3c8 - Holcus-Juncus Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3f - Hawthorn Scrub

h3h - Mixed Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

u1b - Developed Land; Sealed Surface

u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

w1g - Other Woodland; Broadleaved

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.16

OUTER DOWSING OFFSHORE WIND

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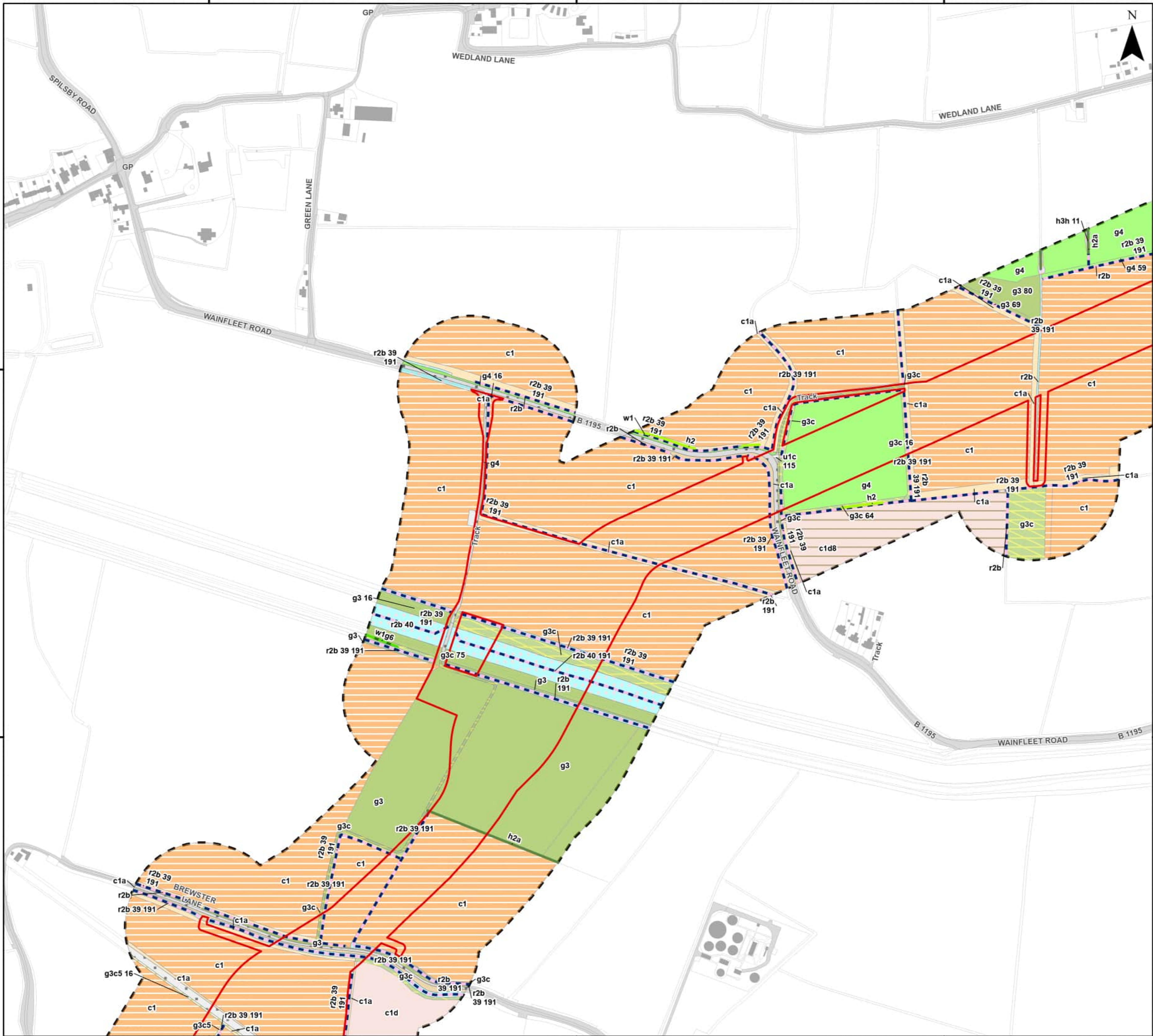


Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1d - Non-cereal Crops

c1d8 - Other Non-cereal Crops

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

g3c5 - Arrhenatherum Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3h - Mixed Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

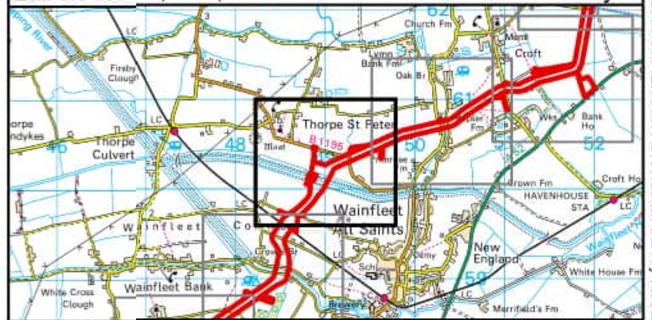
u1 - Built-up Area and Garden

u1c - Artificial Unvegetated, Unsealed Surface

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.17

OUTER DOWSING OFFSHORE WIND

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548000 548500 549000

359500 359000 358500

N

CROW'S LANE
COLLISON GATE
ECC 5: Low Road to Steeping River
ECC 6: Steeping River to Fodder Dike Bank/Fen Bank
Track
MATT PITS LANE
MILL LANE
Path (um)
WASHDIKE LANE
CHURCH LANE
GP

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat
- h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c - Cereal Crops
- c1c7 - Other Cereal Crops
- c1d - Non-cereal Crops
- c1d8 - Other Non-cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland
- g3c5 - Arrhenatherum Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3f - Hawthorn Scrub

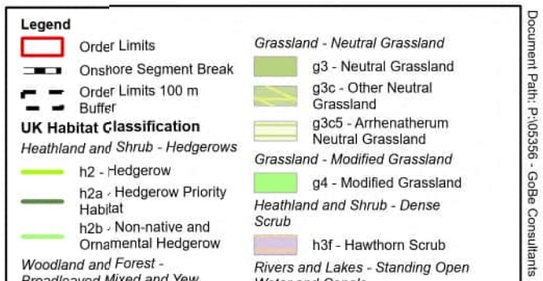
Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1g - Other Woodland; Broadleaved
- w1g7 - Other Broadleaved Woodland Types

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.18

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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Revision: 0.1

SLR

547000
547500
548000
358500
358000
357500
N
CHURCH LANE
Swan Lane (Path)
HALL GATE (TRACK)
SCALD GATE
Track
Path (um)
GP
c1
c1a
c1c7
c1d
c1d8
c1 74
g4
g4 16
g4 59
g4 17
g3
g3c
g3c 76
g
w1
w1f
w1g
w1g6
w1g7 36
h2
h3
h3f
h3h
r2b
r2b 39 191
r2b 39 191 76
r2b 39 191 75
r2b 191 76
Legend
Order Limits
Order Limits 100 m Buffer
UK Habitat Classification
Heathland and Shrub - Hedgerows
h2 - Hedgerow
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1g6 - Line of Trees
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins
c1c7 - Other Cereal Crops
c1d - Non-cereal Crops
c1d8 - Other Non-cereal Crops
Grassland
g - Grassland
Grassland - Neutral Grassland
g3 - Neutral Grassland
g3c - Other Neutral Grassland
Grassland - Modified Grassland
g4 - Modified Grassland
Heathland and Shrub - Dense Scrub
h3 - Dense Scrub
h3f - Hawthorn Scrub
h3h - Mixed Scrub
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
u1b5 - Building
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w - Woodland and Forest
w1 - Broadleaved Mixed and Yew Woodland
w1f - Lowland Mixed Deciduous Woodland
w1g - Other Woodland; Broadleaved
w1g7 - Other Broadleaved Woodland Types
Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.
Coordinate System: British National Grid
0 50 100 200 Metres
Scale: 1:5,000
A3 Page Size
Environmental Statement
UK Habitat Survey Results
Figure 21.2.1.19
OUTER DOWSING OFFSHORE WIND
Date: 21/02/2024
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Revision: 0.1
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548000
548500
549000
358000
357500
357000

N

r2b 39 191
c1
c1a
h2
g4 59
g4 17
r2b
w1g6
g4
g3
w
Track
Path (um)
ABRAHAM'S LANE (TRACK)
SCALD GATE
LOW ROAD
ACRES GATE (TRACK)
POLAR BANK (TRACK)
IVY LANE
A 52
c1c
g3c

Legend

- Order Limits
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c - Cereal Crops

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w - Woodland and Forest

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.20

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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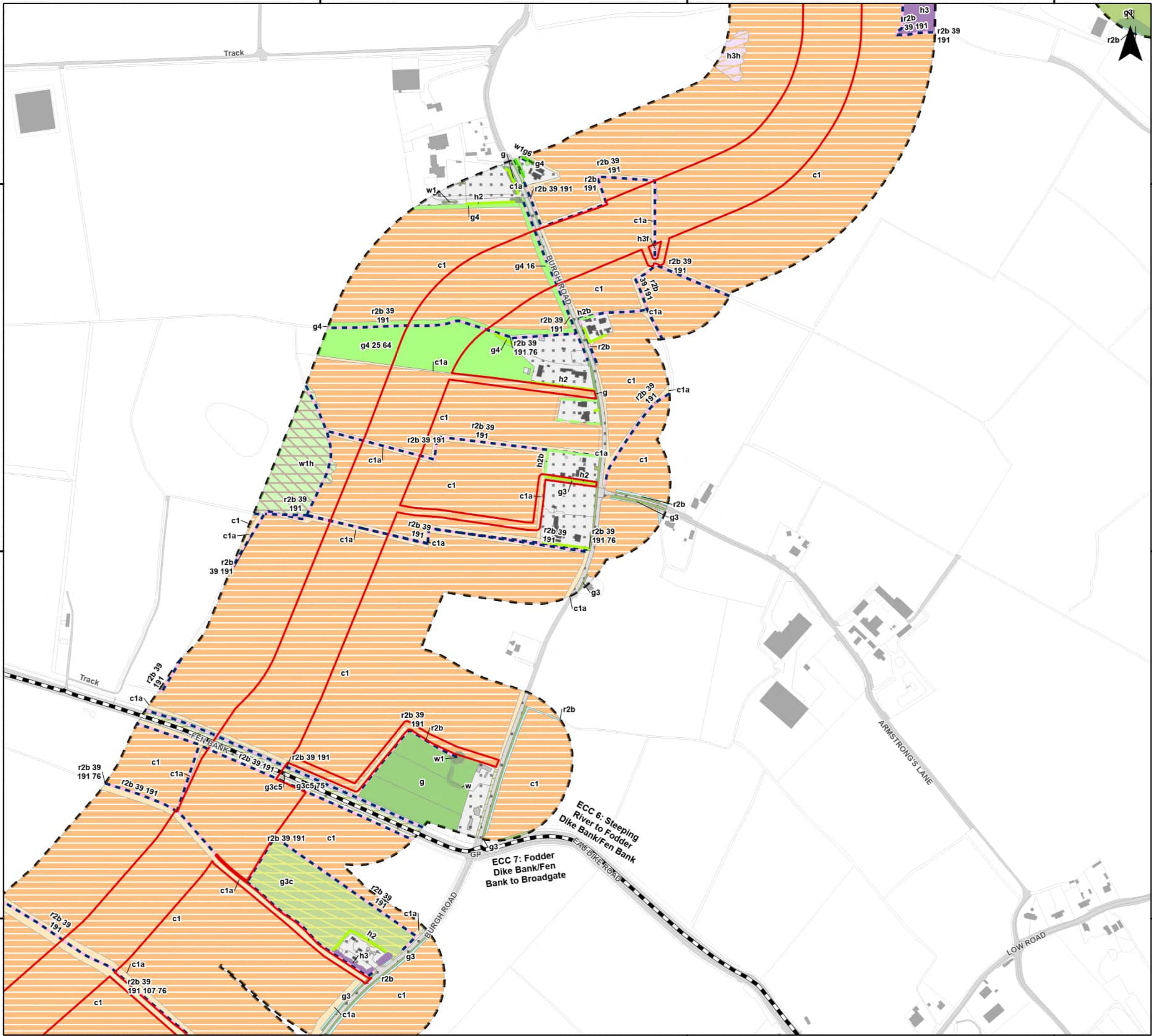

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
h2 - Hedgerow
h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins

Grassland
g - Grassland

Grassland - Neutral Grassland
g3 - Neutral Grassland
g3c - Other Neutral Grassland
g3c5 - Arrhenatherum Neutral Grassland

Grassland - Modified Grassland
g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
h3 - Dense Scrub
h3f - Hawthorn Scrub
h3h - Mixed Scrub

Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
u1b - Developed Land; Sealed Surface
u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
w - Woodland and Forest
w1 - Broadleaved Mixed and Yew Woodland
w1h - Other Woodland; Mixed

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.21

OUTER DOWSING OFFSHORE WIND

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545500 546000 546500

356500 356000 355500

ECC 7: Fodder Dike Bank/Fen Bank to Broadgate

ECC 6: Steeping River to Fodder Dike Bank/Fen Bank

FENBANK

GRANBERRY LANE

BURGH ROAD

CHEALES CLOSE

BOWMAN AVENUE

THE AVENUE

SMITHY LANE

LOW ROAD

Track

Path

GP

N

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat
- h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c - Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland
- g3c5 - Arrhenatherum Neutral Grassland
- g3c6 - Lolium-Cynosurus Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3f - Hawthorn Scrub
- h3h - Mixed Scrub

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w - Woodland and Forest
- w1 - Broadleaved Mixed and Yew Woodland
- w1g - Other Woodland; Broadleaved

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.22

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

544500 545000 545500

355500 355000 354500

SMALL END ROAD
Track
CHURCH LANE
HOWGARTH LANE
YAWLING GATE
GP

N

Legend

- Order Limits
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat
- h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c - Cereal Crops
- c1c5 - Winter Stubble
- c1c7 - Other Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland
- g3c5 - Arrhenatherum Neutral Grassland
- g3c6 - Lolium-Cynosurus Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3a6 - Other Blackthorn Scrub
- h3h - Mixed Scrub

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building
- u1b6 - Other Developed Land

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1g - Other Woodland; Broadleaved

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.23

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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Revision: 0.1

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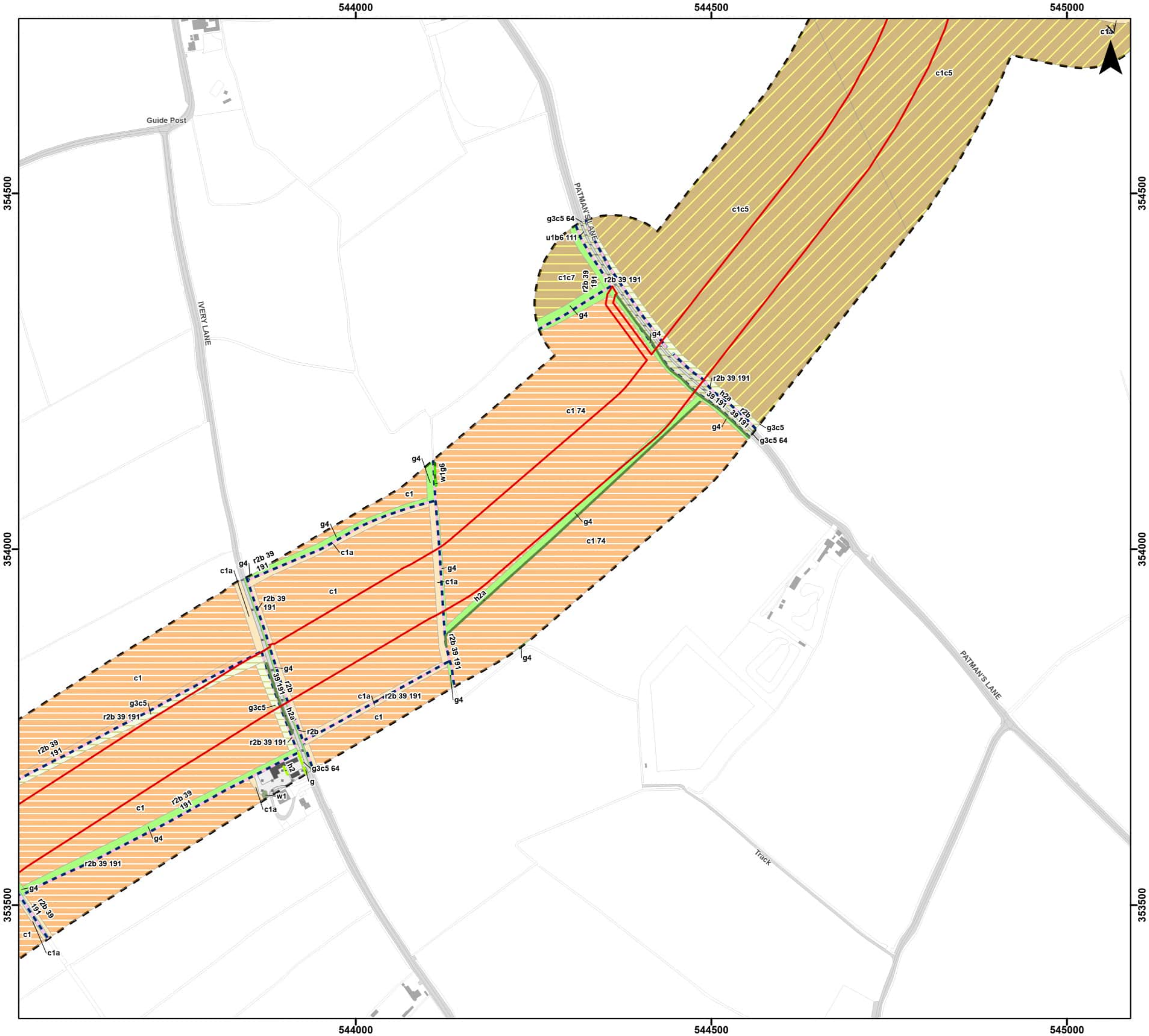

Legend

- Order Limits
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c5 - Winter Stubble
- c1c7 - Other Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3c5 - Arrhenatherum Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building
- u1b6 - Other Developed Land

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.24

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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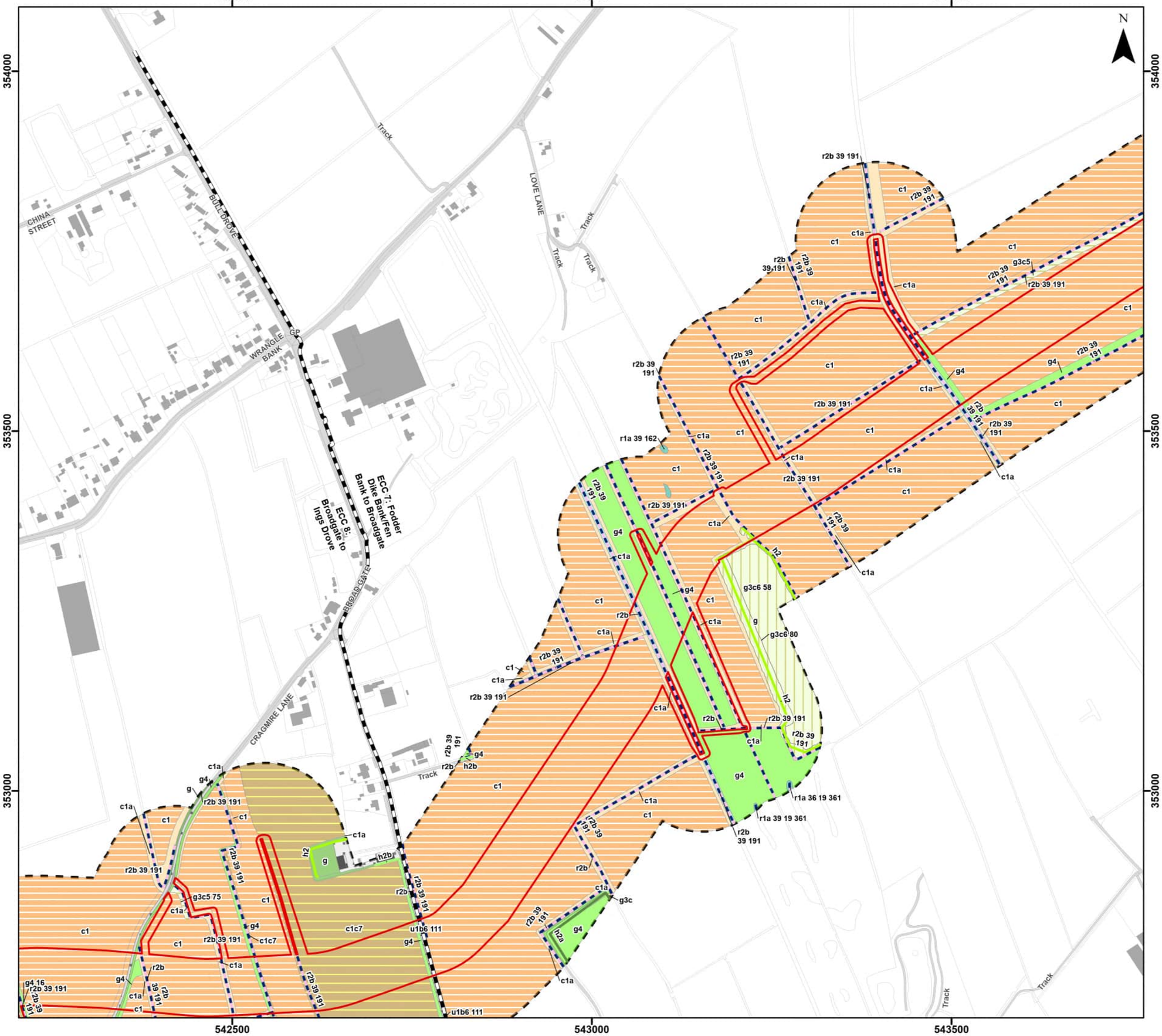


Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat
- h2b - Non-native and Ornamental Hedgerow

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c7 - Other Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3c - Other Neutral Grassland
- g3c5 - Arrhenatherum Neutral Grassland
- g3c6 - Lolium-Cynosurus Neutral Grassland

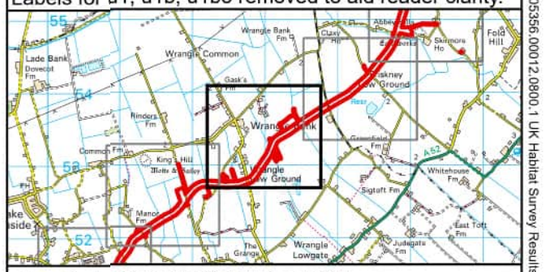
Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building
- u1b6 - Other Developed Land

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.25

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

541000 541500 542000

353000 352500 352000

WRANGLE BANK
LOW LANE
PARK LANE
MANOR LANE
Track
DOUBLE BANK
COMMON ROAD
CRAGMIRE LANE

N

Legend

Order Limits
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2b - Non-native and Ornamental Hedgerow

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1d8 - Other Non-cereal Crops

Grassland
- g - Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.26

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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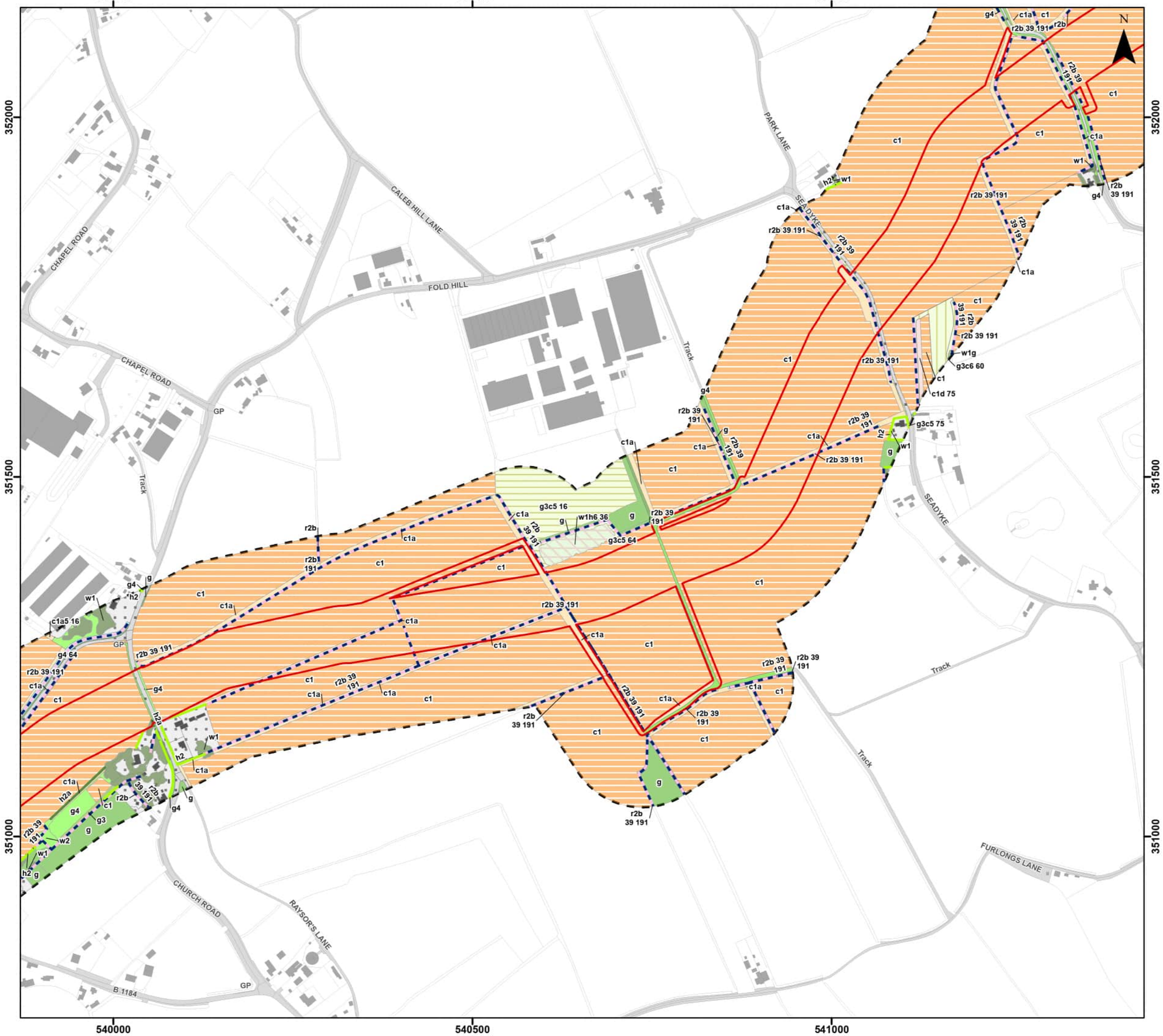
Revision: 0.1

SLR



Legend

- Order Limits
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1a5 - Arable Margins Sown With Tussocky Grasses
- c1d - Non-cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c5 - Arrhenatherum Neutral Grassland
- g3c6 - Lolium-Cynosurus Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1g - Other Woodland; Broadleaved
- w1h6 - Other Woodland; Mixed; Mainly Conifer

Woodland and Forest - Coniferous Woodland
- w2 - Coniferous Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.27

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

539000 539500 540000

351000 350500 350000

N

Track
THE GRIDE
B 1184
SKIPMARSH LANE
PODE LANE
CRACK HOLT LANE
CHURCH ROAD
GP

Legend

Order Limits
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1a5 - Arable Margins Sown With Tussocky Grasses

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland
- g3c5 - Arrhenatherum Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1g - Other Woodland; Broadleaved

Woodland and Forest - Coniferous Woodland
- w2 - Coniferous Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.28

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

538000
538500
539000
350000
349500
349000
N
INGS DROVE
SOUTHFIELDS
SKIPMARSH LANE
Track
GRIDE BANK
INGS ROAD
ECC 8: Broadgate to Ings Drove
ECC 9: Ings Drove to Church End Lane
c1
c1a
c1c7
c1c7 74
f2e
f2e 10
g
g3c
g4
h2
h2b
r2b
r2b 39 191
w1

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2b - Non-native and Ornamental Hedgerow

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c7 - Other Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Wetland - Fen Marsh and Swamp
- f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.29

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

537000 537500 538000

349000 348500 348000

N

Track

INGS DROVE

HOBHOLE BANK

INGS ROAD

MIDDLEMERE BANK

GP

Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c7 - Other Cereal Crops

Grassland

g - Grassland

Grassland - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

u1b5 - Building

Wetland - Fen Marsh and Swamp

f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.30

OUTER DOWSING OFFSHORE WIND

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537000 537500 538000

347500 347000 346500

N

HOBHOLE BANK

GP

LOWFIELDS LANE

DOUBLE BANK

STRAYFLEETS LANE

c1 c1a c1c5 g g3 g4 g4 61 h2 h3a r2b r2b 39 191 w1

Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c5 - Winter Stubble

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3a - Blackthorn Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.31

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

536500
537000
537500
538000
346500
346000
345500
N
HOBHOLE BANK
EMERY LANE (TRACK)
SWANHOLE LANE
WEIRS LANE
DOTAM'S LANE
Track
OAK HOUSE LANE
ACORN CLOSE
HOMERS LANE
A52
GP
r2b 39 191
c1
c1a
g
g4
h2
w1
g3
c1d8
g4 115

Legend

Order Limits
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
h2 - Hedgerow
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins
c1d8 - Other Non-cereal Crops
Grassland
g - Grassland
Grassland - Neutral Grassland
g3 - Neutral Grassland
Grassland - Modified Grassland
g4 - Modified Grassland
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
u1b5 - Building
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.32

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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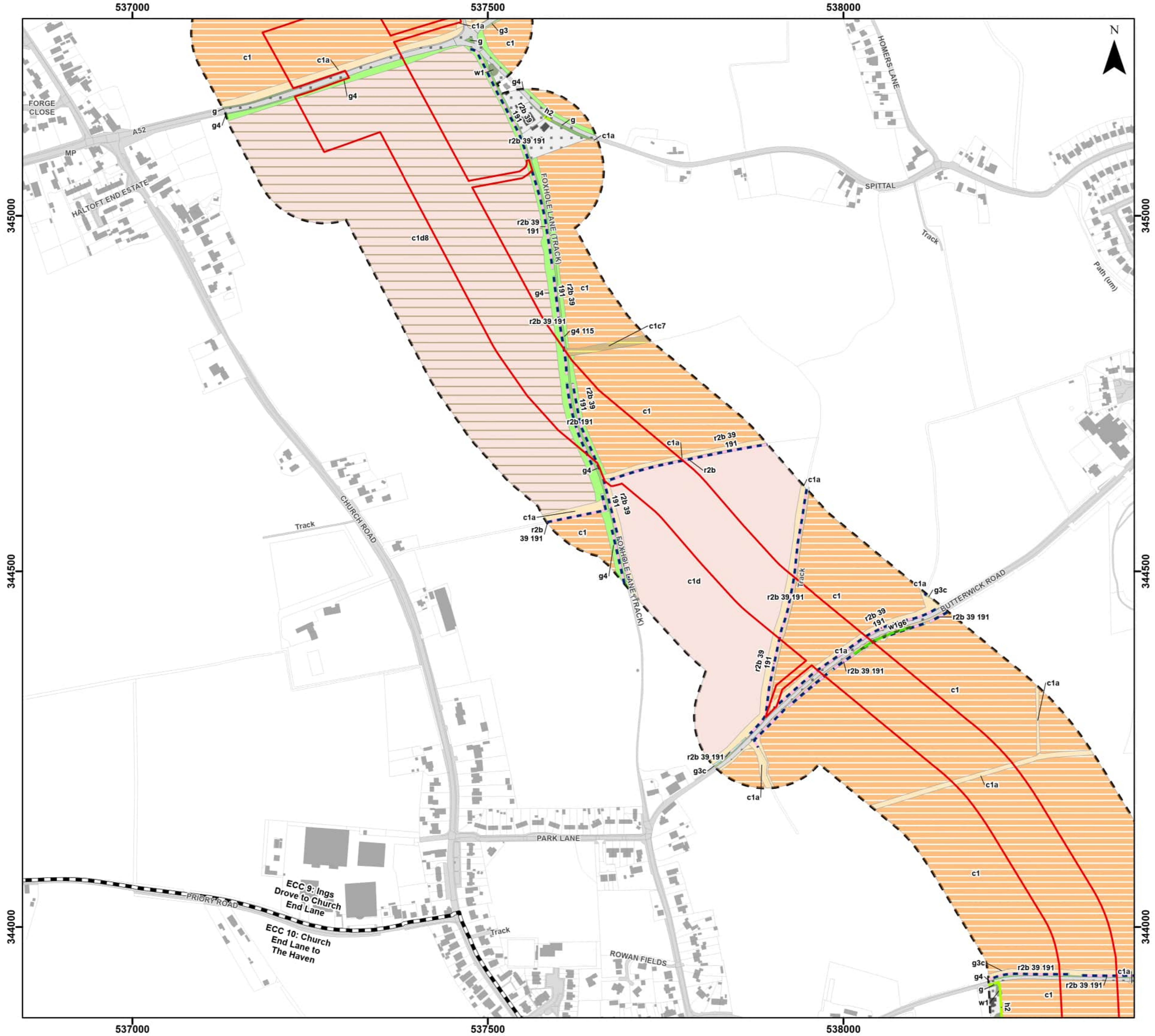


Legend

Order Limits

Onshore Segment Break

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c7 - Other Cereal Crops

c1d - Non-cereal Crops

c1d8 - Other Non-cereal Crops

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

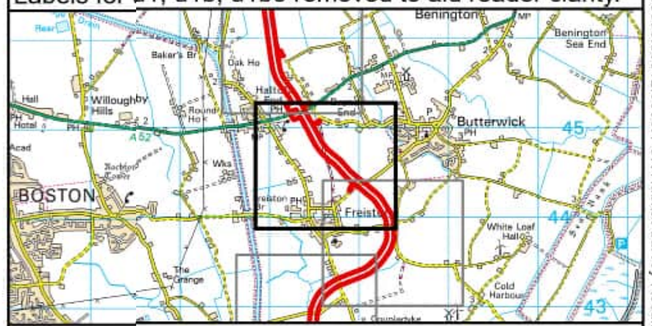
u1 - Built-up Area and Garden

u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.33

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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538000
538500
539000
344000
343500
N
ROWAN FIELDS
SHORE ROAD
CHURCH VIEW
CHURCH END ROAD
ECC 10: Church End Lane to The Haven
ECC 9: Ings Drove to Church End Lane
DOVES' LANE
Track
GP
c1
c1a
c1d
g
g3c
g4
h2
h3
w1
w1g6
r2b
r2b 39 191
r2b 39
191
g3c 16
c1a 16
r2b 39 191

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
h2 - Hedgerow
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1g6 - Line of Trees
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins
c1d - Non-cereal Crops
Grassland
g - Grassland
Grassland - Neutral Grassland
g3c - Other Neutral Grassland
Grassland - Modified Grassland
g4 - Modified Grassland
Heathland and Shrub - Dense Scrub
h3 - Dense Scrub
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
u1b5 - Building
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.34

OUTER DOWSING OFFSHORE WIND

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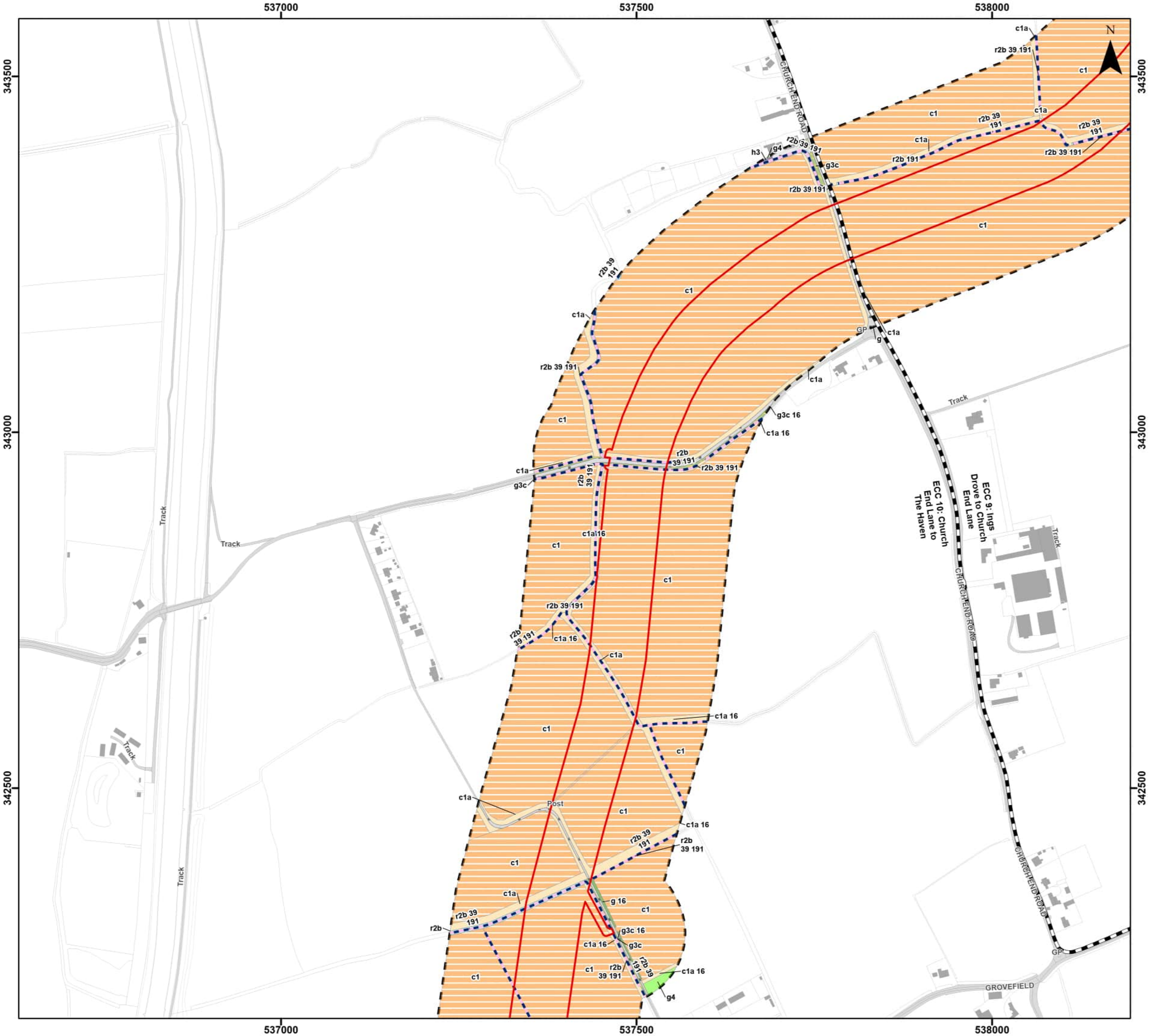

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

- c1 - Arable and Horticulture
- c1a - Arable Field Margins

Grassland

- g - Grassland

Grassland - Neutral Grassland

- g3c - Other Neutral Grassland

Grassland - Modified Grassland

- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

- h3 - Dense Scrub

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

- u1 - Built-up Area and Garden
- u1b5 - Building

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.35

OUTER DOWSING OFFSHORE WIND

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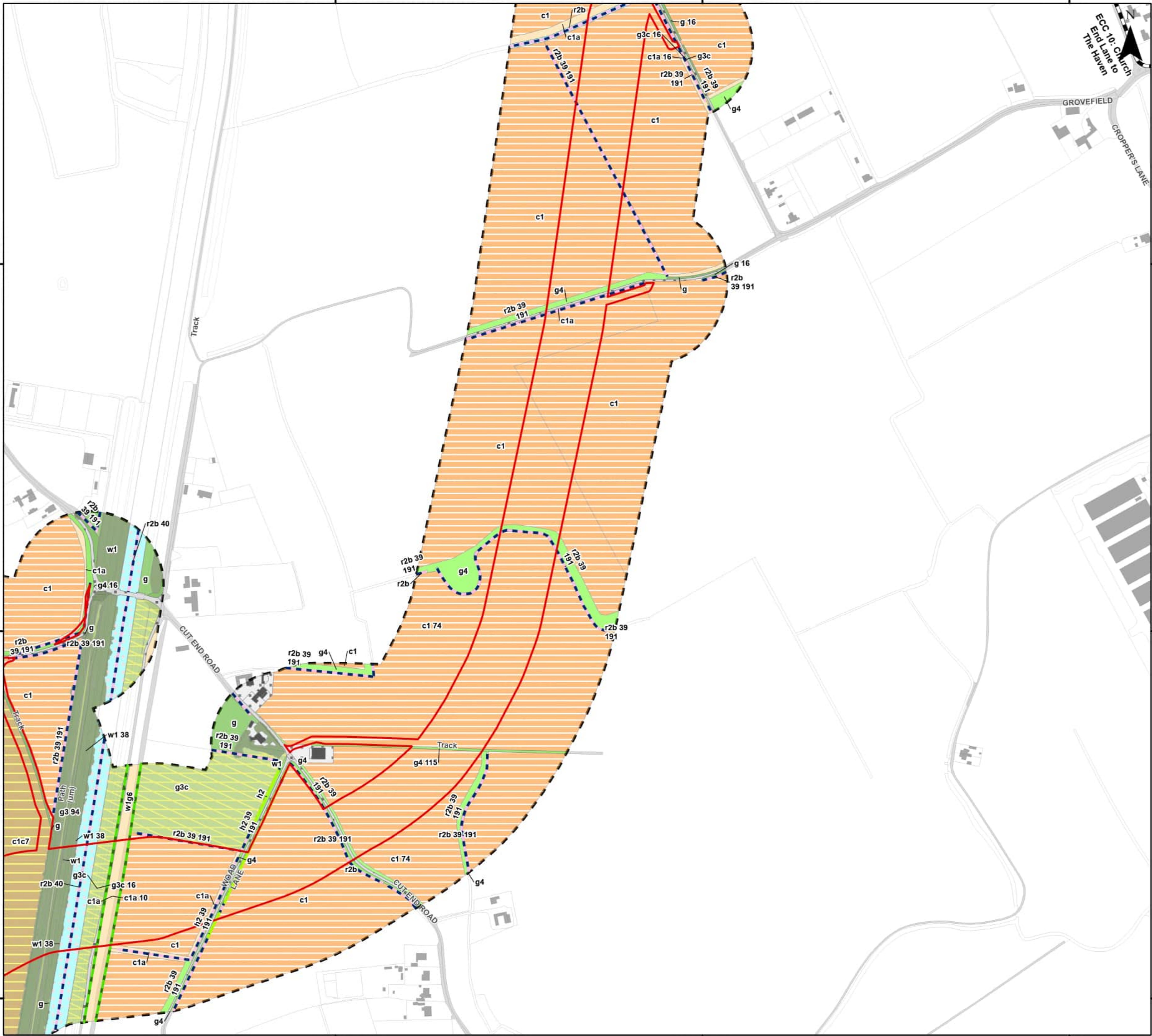


Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c7 - Other Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

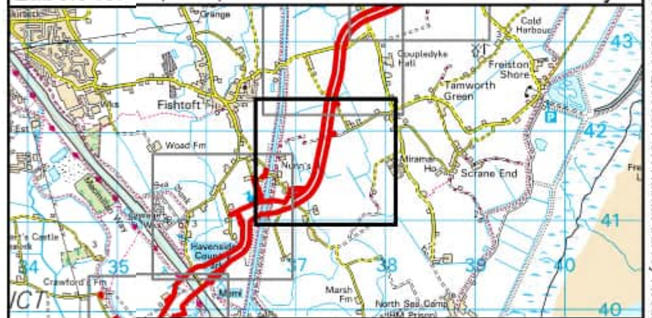
Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.36

OUTER DOWSING OFFSHORE WIND

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Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c7 - Other Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3a - Blackthorn Scrub
- h3h - Mixed Scrub

Marine Inlets and Transitional Waters - Littoral Sediment
- t2a - Coastal Saltmarsh
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building
- u1c - Artificial Unvegetated, Unsealed Surface

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.37

OUTER DOWSING OFFSHORE WIND

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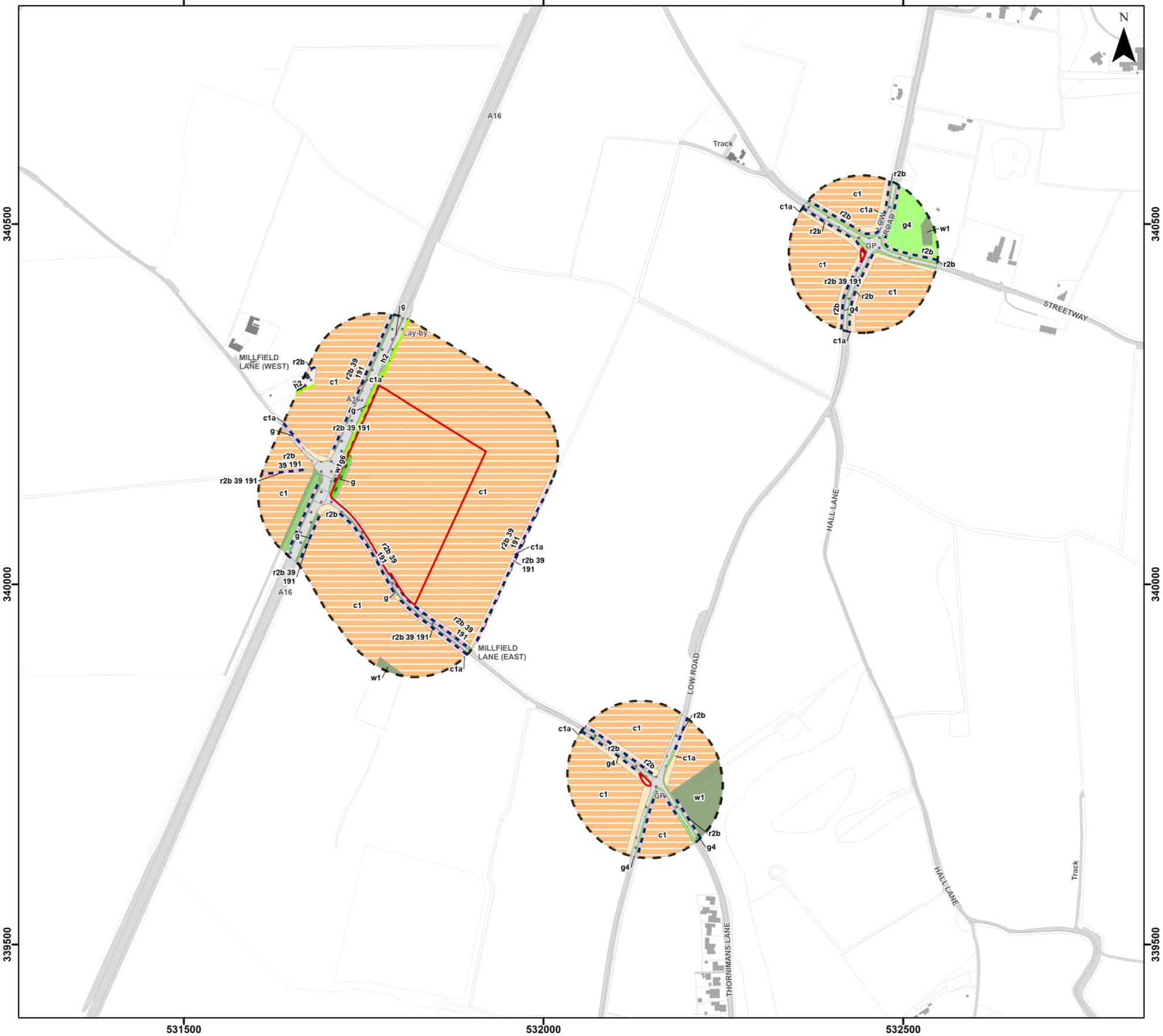


Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

Grassland

g - Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

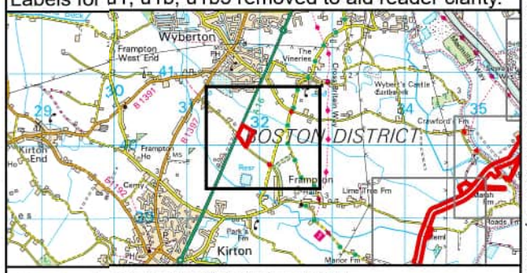
u1 - Built-up Area and Garden

u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.38

OUTER DOWSING OFFSHORE WIND

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SLR

535000
535500
536000
340000
339500
339000
N
WILEY'S LANE (TRACK)
WYBERTON ROADS
FRAMPTON ROADS
ECC 10: Church End Lane to The Haven
ECC 11: The Haven to Marsh Road
Track
Path
Path (um)
Post
GP

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c - Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3f - Hawthorn Scrub
- h3h - Mixed Scrub

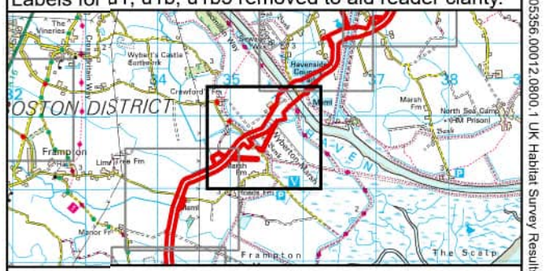
Marine Inlets and Transitional Waters - Littoral Sediment
- t2a - Coastal Saltmarsh
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building
- u1c - Artificial Unvegetated, Unsealed Surface

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1g7 - Other Broadleaved Woodland Types

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

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Figure 21.2.1.39

OUTER DOWSING OFFSHORE WIND

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534000
534500
535000
339500
339000
338500
N
Path (um)
Path (um)
c1a
c1
g
r2b 39 191
r2b 39
191
h2
g4
w1
r2b 40
c1a 80
w1g6
r2b
w1g
c1a c1ah
c1a c1a5
r2b 39 191
g4 g4h
Legend
Order Limits
Order Limits 100 m Buffer
UK Habitat Classification
Heathland and Shrub - Hedgerows
h2 - Hedgerow
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1g6 - Line of Trees
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins
Grassland
g - Grassland
Grassland - Modified Grassland
g4 - Modified Grassland
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1 - Broadleaved Mixed and Yew Woodland
w1g - Other Woodland; Broadleaved
Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.
BOSTON DISTRICT
Kirton
Frampton
Frampton Marsh
Skeldyke
Coordinate System: British National Grid
0 50 100 200 Metres
Scale: 1:5,000
A3 Page Size
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Figure 21.2.1.40
OUTER DOWSING OFFSHORE WIND
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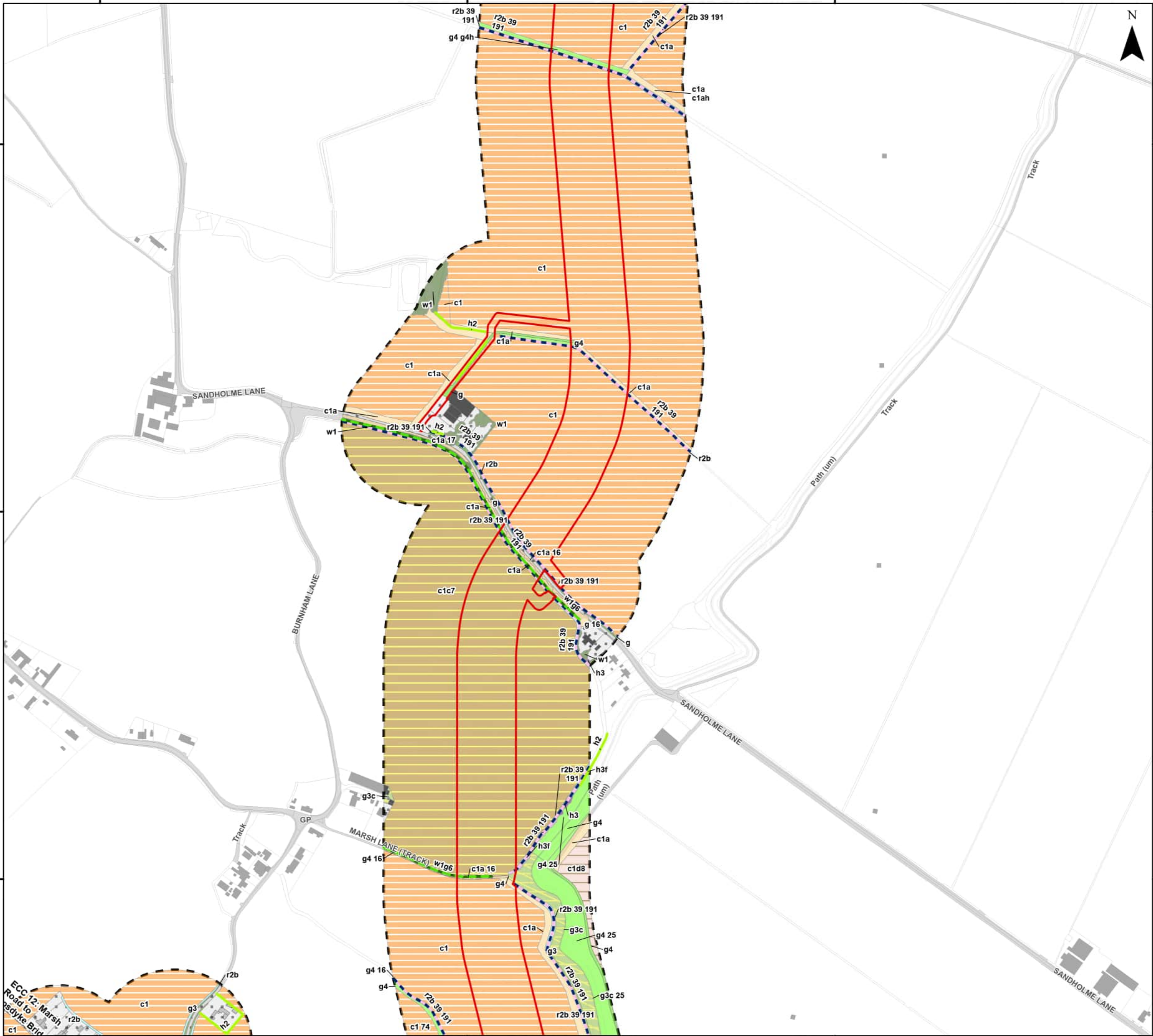


Legend

Order Limits

Onshore Segment Break

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c7 - Other Cereal Crops

c1d8 - Other Non-cereal Crops

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3 - Dense Scrub

h3f - Hawthorn Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

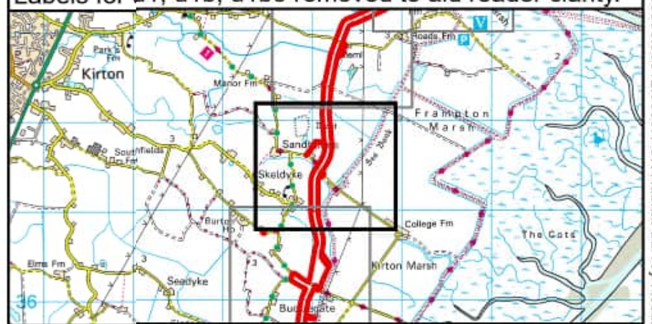
u1 - Built-up Area and Garden

u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.41

OUTER DOWSING OFFSHORE WIND

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533500 534000 534500

337000 336500 336000

N

ECC 11: The Haven to Marsh Road

ECC 12: Marsh Road to Fostyke Bridge

NIDD'S LANE

MARSH ROAD

BUCKLEGATE LANE

Track

Path (um)

Legend

Order Limits

Onshore Segment Break

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

h2a - Hedgerow Priority Habitat

h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c7 - Other Cereal Crops

c1d8 - Other Non-cereal Crops

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3 - Dense Scrub

h3d - Bramble Scrub

h3f - Hawthorn Scrub

h3h - Mixed Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

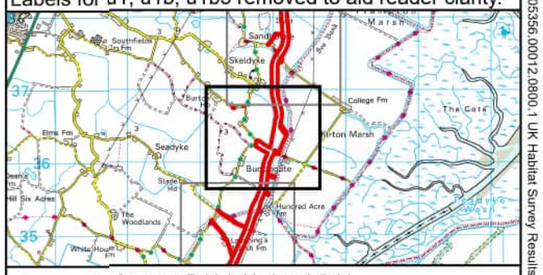
u1 - Built-up Area and Garden

u1d - Suburban / Mosaic of Developed / Natural Surface

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

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Figure 21.2.1.42

OUTER DOWSING OFFSHORE WIND

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533000
533500
534000
335500
335000
334500
N
SLOUGH LANE
Track
Path (um)
Legend
Order Limits
Order Limits 100 m Buffer
UK Habitat Classification
Heathland and Shrub - Hedgerows
h2 - Hedgerow
h2a - Hedgerow Priority Habitat
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1g6 - Line of Trees
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Cropland - Arable and Horticulture
c1 - Arable and Horticulture
c1a - Arable Field Margins
c1c7 - Other Cereal Crops
Grassland
g - Grassland
Grassland - Neutral Grassland
g3 - Neutral Grassland
g3c - Other Neutral Grassland
Grassland - Modified Grassland
g4 - Modified Grassland
Heathland and Shrub - Dense Scrub
h3 - Dense Scrub
h3f - Hawthorn Scrub
h3h - Mixed Scrub
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Urban - Built-up Areas and Gardens
u1 - Built-up Area and Garden
u1b5 - Building
Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1 - Broadleaved Mixed and Yew Woodland
Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.
Coordinate System: British National Grid
0 50 100 200 Metres
Scale: 1:5,000
A3 Page Size
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Figure 21.2.1.43
OUTER DOWSING OFFSHORE WIND
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Revision: 0.1
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532500
533000
533500
334000
333500
N
Track
THOMPSON'S LANE
POT LANE
Path/(Um)
g4
c1a
c1
r2b 39 191
h2a
r2b
g
h3h
w1
c1 74
h3h 75
u1c 115
h3f 75
h3f 16
g3c 400
g4 115
g4 80
c1a 11
c1a 80
h3 80
c1a 64
g3c 94
h3
Legend

Order Limits

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

Grassland

g - Grassland

Grassland - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3 - Dense Scrub

h3f - Hawthorn Scrub

h3h - Mixed Scrub

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

u1c - Artificial Unvegetated, Unsealed Surface

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

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Figure 21.2.1.44

OUTER DOWSING OFFSHORE WIND

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531500 532000 532500 533000

333000 332500 332000

N

POT LANE
WASH ROAD
PUTTOCK GATE
RANDOLPH ROAD
SNAITH AVENUE
OLD MAIN ROAD
CRAVEN'S LANE
PULLOVER LANE
ECC 13: Fosdyke to Surfleet Marsh OnSS/Marsh Drove
ECC 12: Marsh Road to Fosdyke Bridge
Track
MIDDLE MARSH ROAD
SECOND DROVE (TRACK)

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat
- h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c7 - Other Cereal Crops
- c1d - Non-cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub
- h3a - Blackthorn Scrub
- h3d - Bramble Scrub
- h3f - Hawthorn Scrub
- h3h - Mixed Scrub

Marine Inlets and Transitional Waters - Littoral Sediment
- t2 - Littoral Sediment
- t2a - Coastal Saltmarsh
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building
- u1b6 - Other Developed Land
- u1c - Artificial Unvegetated, Unsealed Surface

Wetland - Fen Marsh and Swamp
- f - Wetland

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland
- w1g7 - Other Broadleaved Woodland Types

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

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Figure 21.2.1.45

OUTER DOWSING OFFSHORE WIND

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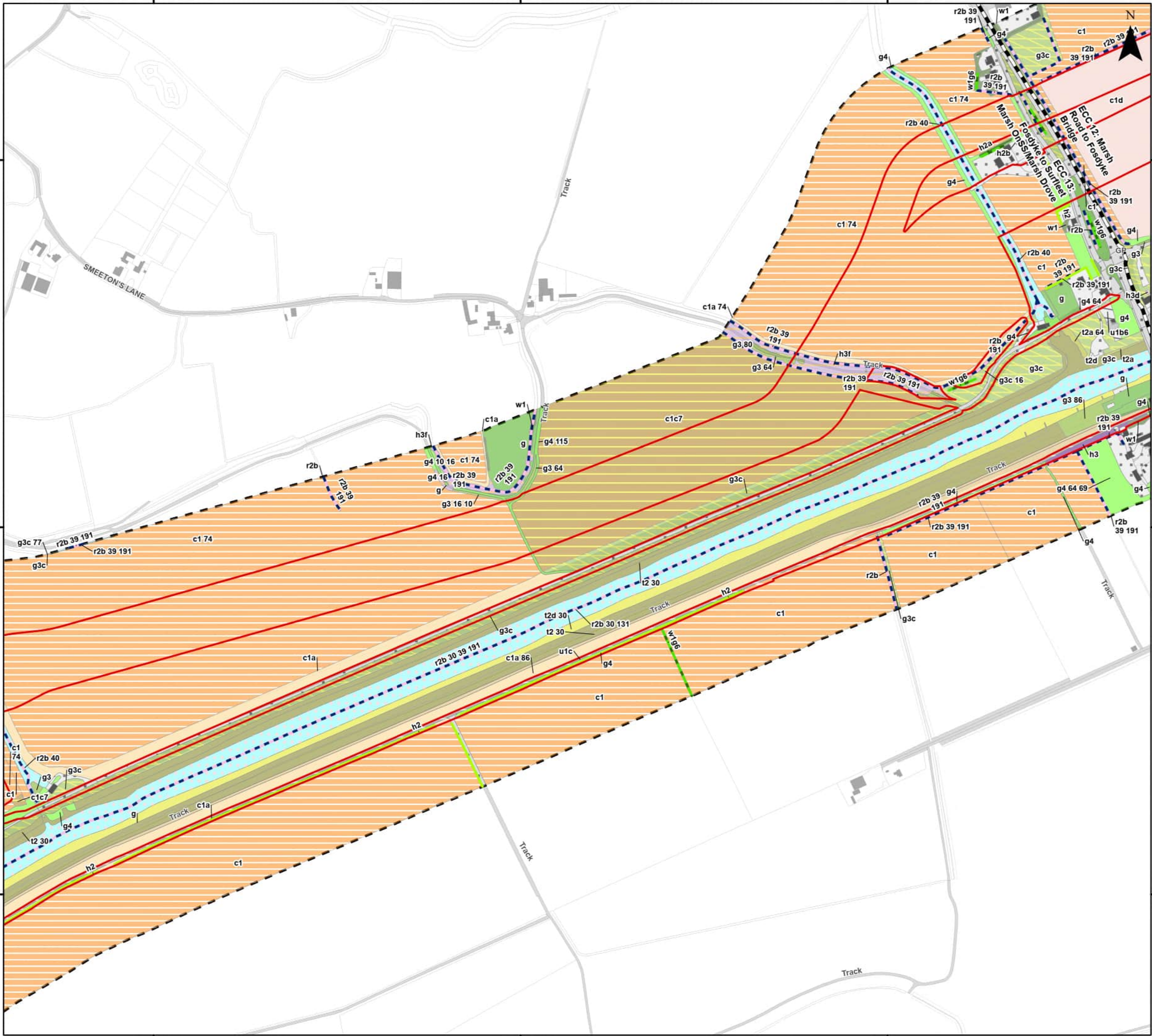


Legend

Order Limits

Onshore Segment Break

Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows

h2 - Hedgerow

h2a - Hedgerow Priority Habitat

h2b - Non-native and Ornamental Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

c1 - Arable and Horticulture

c1a - Arable Field Margins

c1c7 - Other Cereal Crops

c1d - Non-cereal Crops

Grassland

g - Grassland

Grassland - Neutral Grassland

g3 - Neutral Grassland

g3c - Other Neutral Grassland

Grassland - Modified Grassland

g4 - Modified Grassland

Heathland and Shrub - Dense Scrub

h3 - Dense Scrub

h3d - Bramble Scrub

h3f - Hawthorn Scrub

Marine Inlets and Transitional Waters - Littoral Sediment

t2 - Littoral Sediment

t2a - Coastal Saltmarsh

t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams

r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

u1 - Built-up Area and Garden

u1b - Developed Land; Sealed Surface

u1b5 - Building

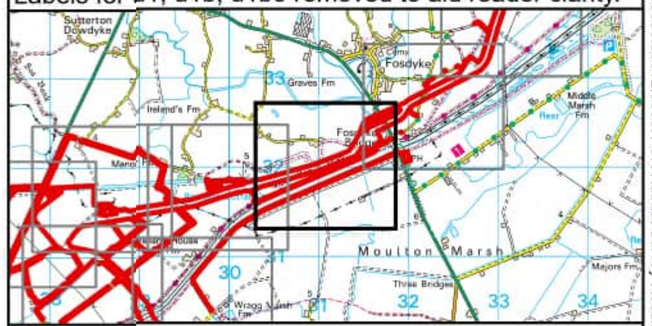
u1b6 - Other Developed Land

u1c - Artificial Unvegetated, Unsealed Surface

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.46

OUTER DOWSING OFFSHORE WIND

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529500 530000 530500

332000

331500

N

MARSH LANE

SMEETON'S LANE

Track

ECC 13: Fosdyke to Surfleet Marsh OnSS/Marsh Drove

ECC 14: Surfleet Marsh OnSS / Marsh Drove to Connection Area

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1c7 - Other Cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

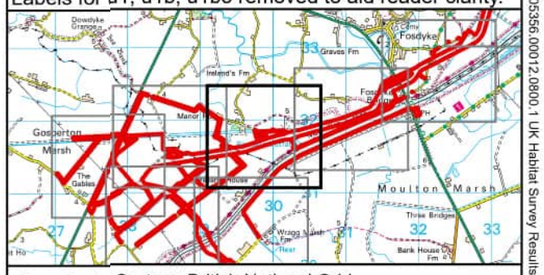
Marine Inlets and Transitional Waters - Littoral Sediment
- t2 - Littoral Sediment
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b5 - Building
- u1b6 - Other Developed Land
- u1c - Artificial Unvegetated, Unsealed Surface
- u1e - Built Linear Feature

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.47

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

528000 528500 529000

332000 331500

N

Track

ECC 13: Fosdyke to Surfleet Marsh OnSS/Marsh Drove

ECC 14: Surfleet Marsh OnSS / Marsh Drove Connection Area

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer
- Onshore Substation (OnSS) Footprint

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1d - Non-cereal Crops
- c1d8 - Other Non-cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Heathland and Shrub - Dense Scrub
- h3 - Dense Scrub

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.48

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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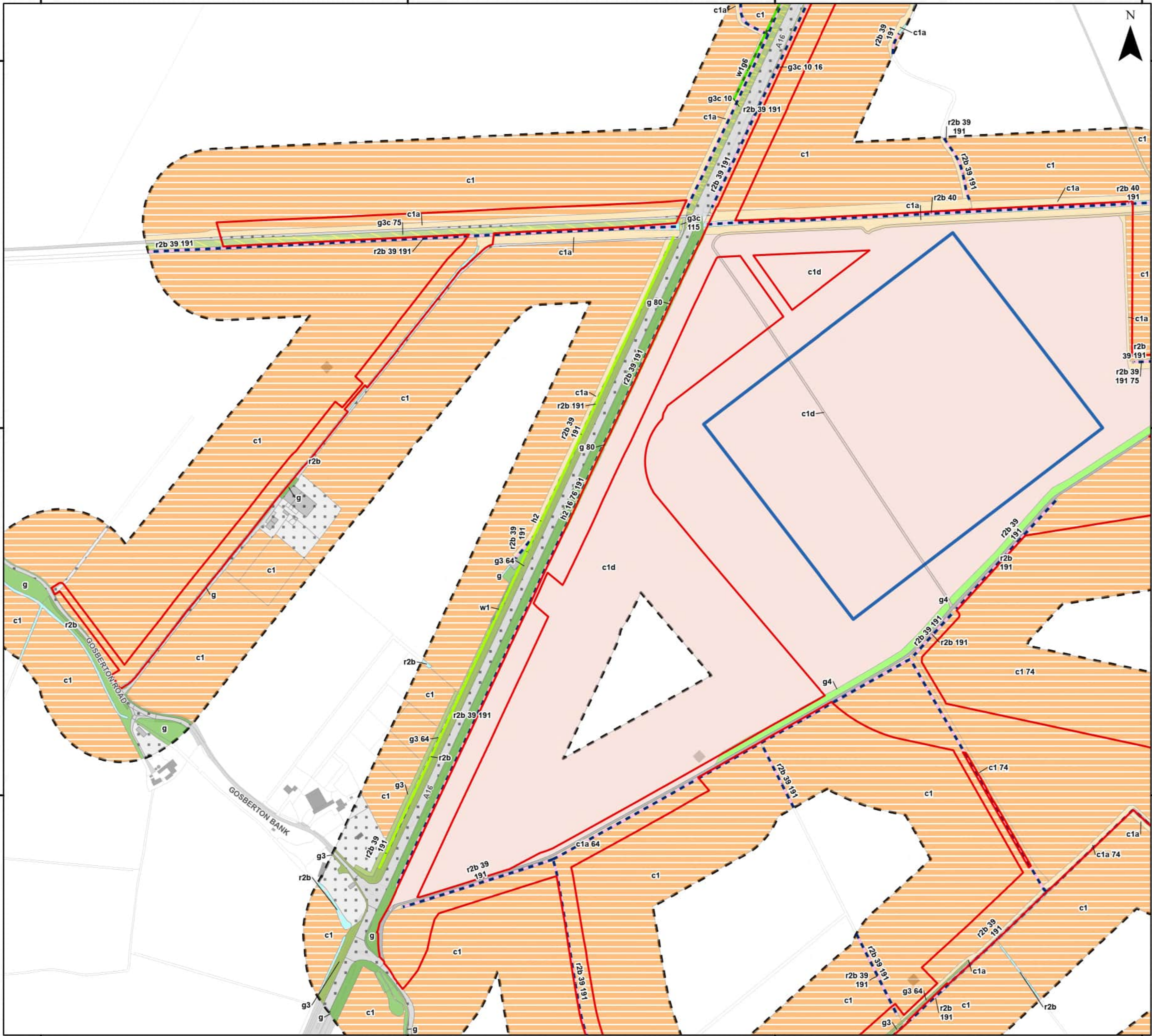

Legend

- Order Limits
- Order Limits 100 m Buffer
- Onshore Substation (OnSS) Footprint

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1g6 - Line of Trees

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1d - Non-cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.49

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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528000
528500
529000
331000
330500
330000
N
SURFLEET BANK
Track
MARSH DROVE
ECC 13: Fosdyke to Surfleet Marsh OnSS/Marsh Drove
ECC 14: Surfleet Marsh OnSS / Marsh Drove to Connection Area
GP

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer
- Onshore Substation (OnSS) Footprint

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1d - Non-cereal Crops
- c1d8 - Other Non-cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Marine Inlets and Transitional Waters - Littoral Sediment
- t2 - Littoral Sediment
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.50

OUTER DOWSING OFFSHORE WIND

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Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2 - Hedgerow
- h2a - Hedgerow Priority Habitat

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture
- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1d - Non-cereal Crops

Grassland
- g - Grassland

Grassland - Neutral Grassland
- g3 - Neutral Grassland
- g3c - Other Neutral Grassland

Grassland - Modified Grassland
- g4 - Modified Grassland

Marine Inlets and Transitional Waters - Littoral Sediment
- t2 - Littoral Sediment
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams
- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens
- u1 - Built-up Area and Garden
- u1b - Developed Land; Sealed Surface
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland
- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.51

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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Revision: 0.1

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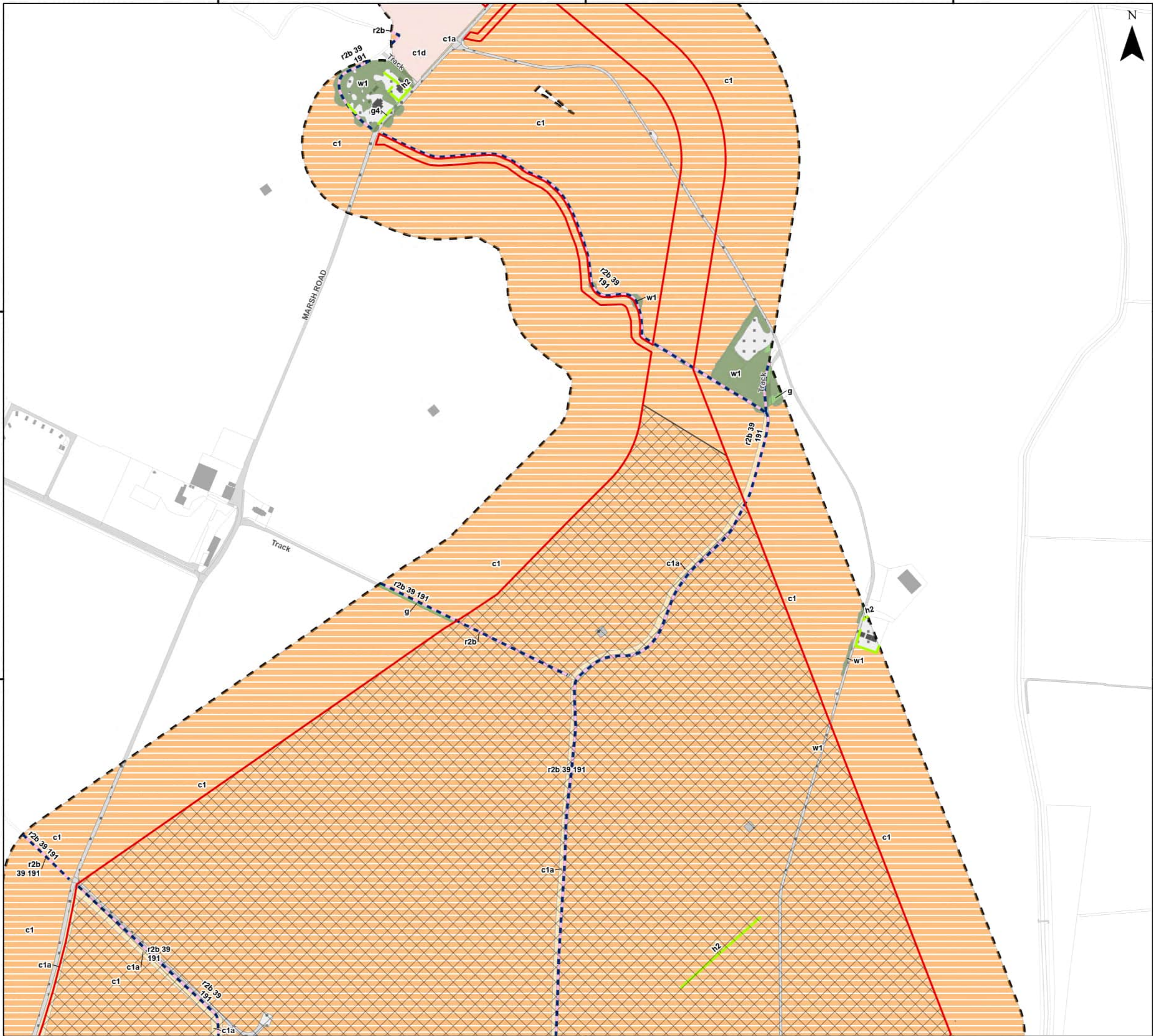

Legend

- Order Limits
- Order Limits 100 m Buffer
- Connection Area

UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2 - Hedgerow

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

- c1 - Arable and Horticulture
- c1a - Arable Field Margins
- c1d - Non-cereal Crops

Grassland

- g - Grassland

Grassland - Modified Grassland

- g4 - Modified Grassland

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

- u1 - Built-up Area and Garden
- u1b5 - Building

Woodland and Forest - Broadleaved Mixed and Yew Woodland

- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.52

OUTER DOWSING OFFSHORE WIND

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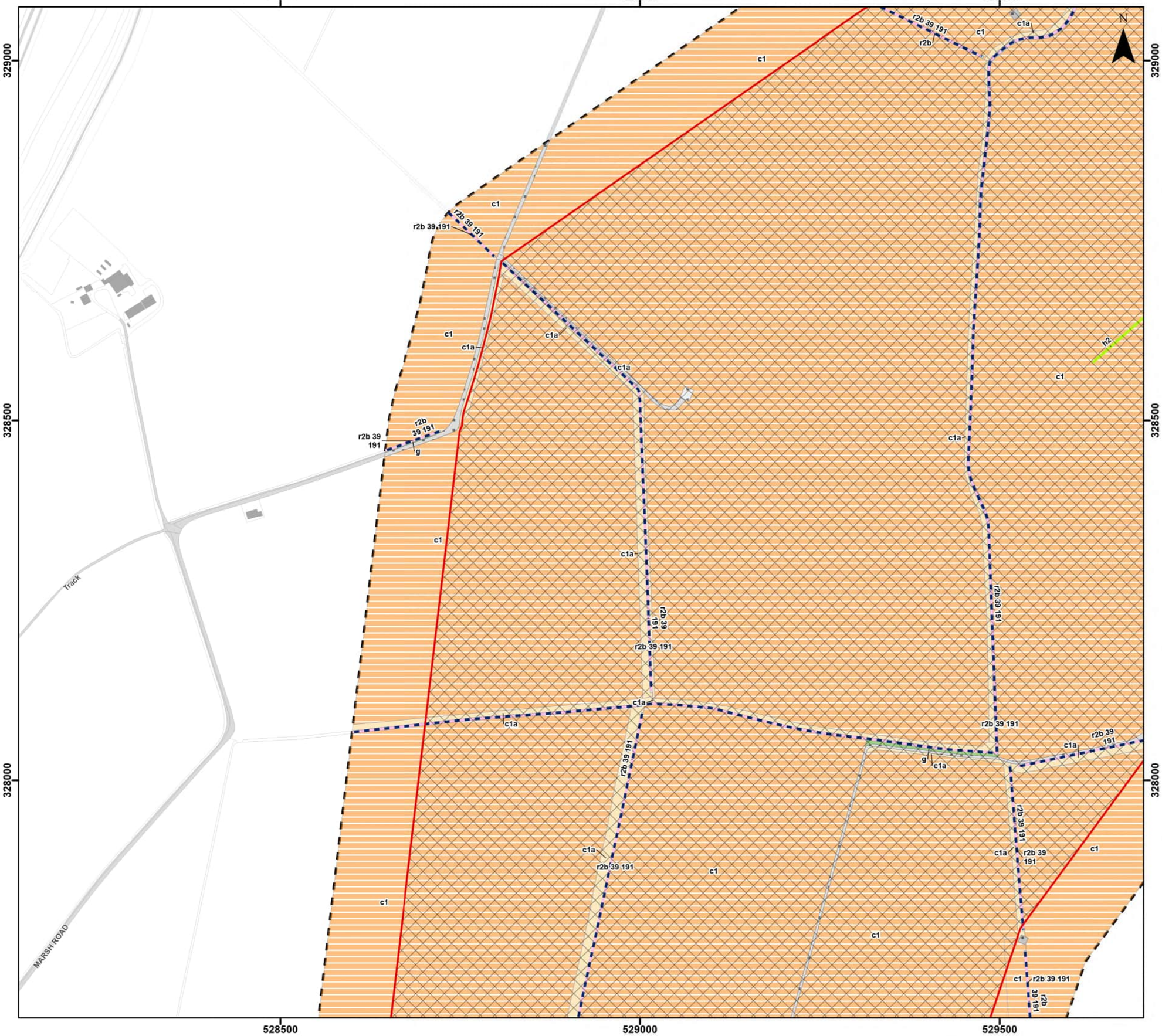

Legend

- Order Limits
- Order Limits 100 m Buffer
- Connection Area

UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2 - Hedgerow

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

- c1 - Arable and Horticulture
- c1a - Arable Field Margins

Grassland

- g - Grassland

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

- u1 - Built-up Area and Garden

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.53

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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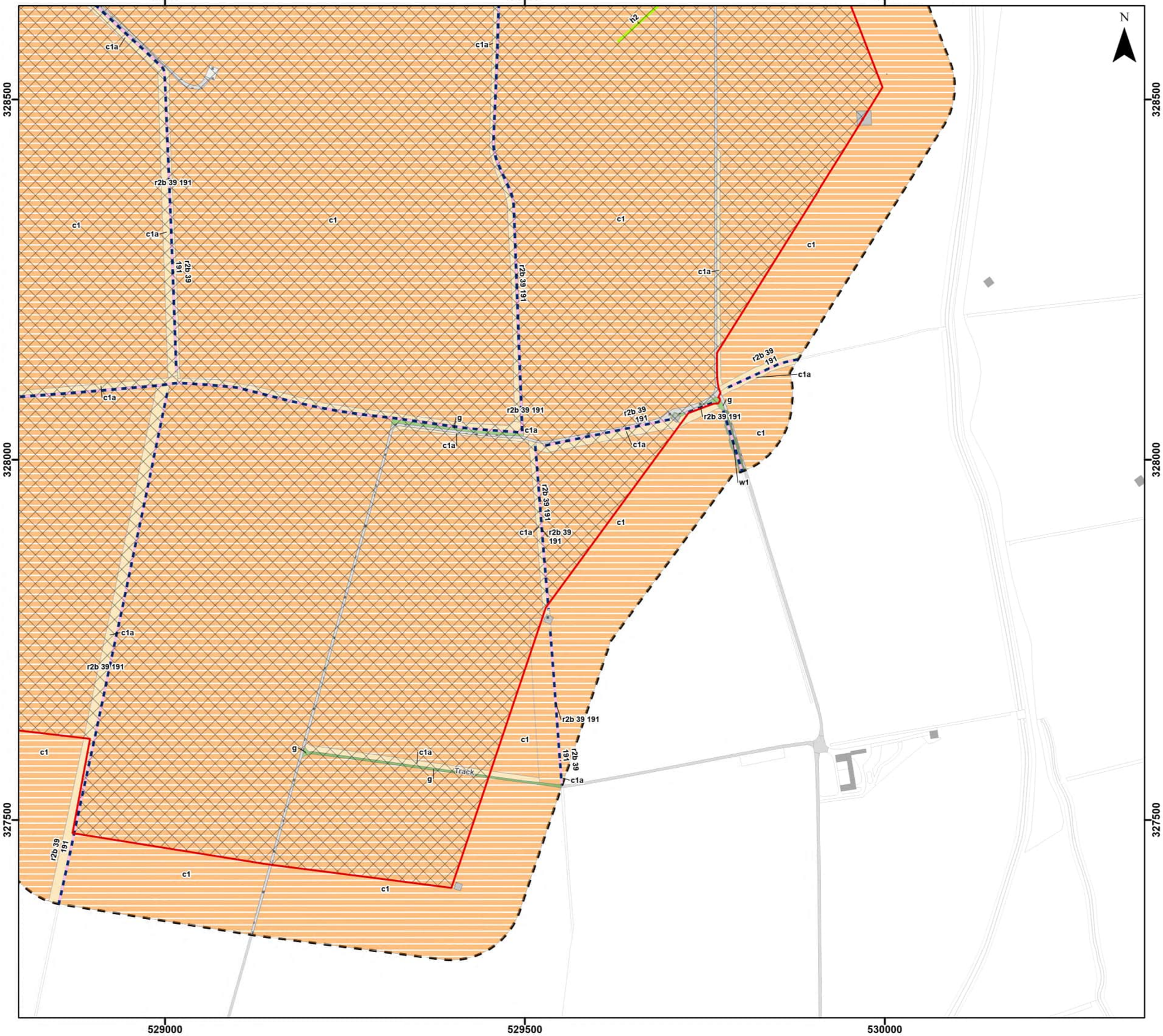

Legend

- Order Limits
- Order Limits 100 m Buffer
- Connection Area

UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2 - Hedgerow

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Cropland - Arable and Horticulture

- c1 - Arable and Horticulture
- c1a - Arable Field Margins

Grassland

- g - Grassland

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Urban - Built-up Areas and Gardens

- u1 - Built-up Area and Garden

Woodland and Forest - Broadleaved Mixed and Yew Woodland

- w1 - Broadleaved Mixed and Yew Woodland

Note: See Figure 21.2.1.55 for Secondary Codes
Labels for u1, u1b, u1b5 removed to aid reader clarity.

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.54

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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Secondary Codes

10 - Scattered scrub
11 - Scattered trees
14 - Scattered rushes
16 -Tall herb
17 - Ruderal/ ephemeral
19 - Ponds (Priority Habitat)
25 - Coastal and floodplain grazing marsh
30 - Estuaries (H1130)
34 - Arable reversion grassland
36 - Plantation
38 - Secondary woodland
39 - Freshwater - man-made
40 - Freshwater - heavily modified
41 - Freshwater - natural
47 - Native
53 - Felled
58 - Grazed
59 - Cattle grazed
60 - Sheep grazed
61 - Horse grazed
64 - Mown
69 - Fence
70 - Hedgebank
73 - Bare ground
74 - Ploughed
75 - Active Management
76 - Recent Management
77 - Neglected
78 - Abandoned
80 - Unmanaged
86 - Accessible natural greenspace
88 - Barn
107 - Railway
111 - Road
114 - Solar panel array
115 - Track
131 - Tidal river
133 - Nutrient-enriched substrate
161 - Tall or tussocky sward
162 - Temporary water bodies
190 - Hedgerow with trees
191 - Ditch
361 - Natural lake or pond
362 - Artificial lake or pond
400 - Green corridors
411 - Natural watercourse
431 - Road island/verge
920 - Orchard

Environmental Statement

UK Habitat Survey Results

Figure 21.2.1.55

OUTER DOWSING OFFSHORE WIND

Date: 19/01/2024
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SLR

555000
555500
556000
376000
375500
375000
N
SEA ROAD
THE DELL
Path
GP
ROMAN BANK
Path (um)
Coastal sand dunes
s3a5
r1a 19 39 361
f2e 19
g4 11 25 161
Good quality semi-improved grassland
f2e
c1a
h2a
g4 17 25
g4 14 25
Mudflats
Reedbeds
f2e 19 39
No main habitat but additional habitats present

Legend

Order Limits
Order Limits 100 m Buffer
Landfall Trenchless Works Area
Transition Joint Bay Area

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows
- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture
- c1a - Arable Field Margins

Grassland - Modified Grassland
- g4 - Modified Grassland

Rivers and Lakes - Standing Open Water and Canals
- r1a - Eutrophic Standing Waters

Sparsely Vegetated Land - Supralittoral Sediment
- s3a5 - Embryonic Shifting Dunes (H2110)

Wetland - Fen Marsh and Swamp
- f2e - Reedbeds

Natural England Priority Habitat
- Coastal Sand Dunes
- Good Quality Semi-improved Grassland
- Mudflats
- No Main Habitat but Additional Habitats Present
- Reedbeds

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.1

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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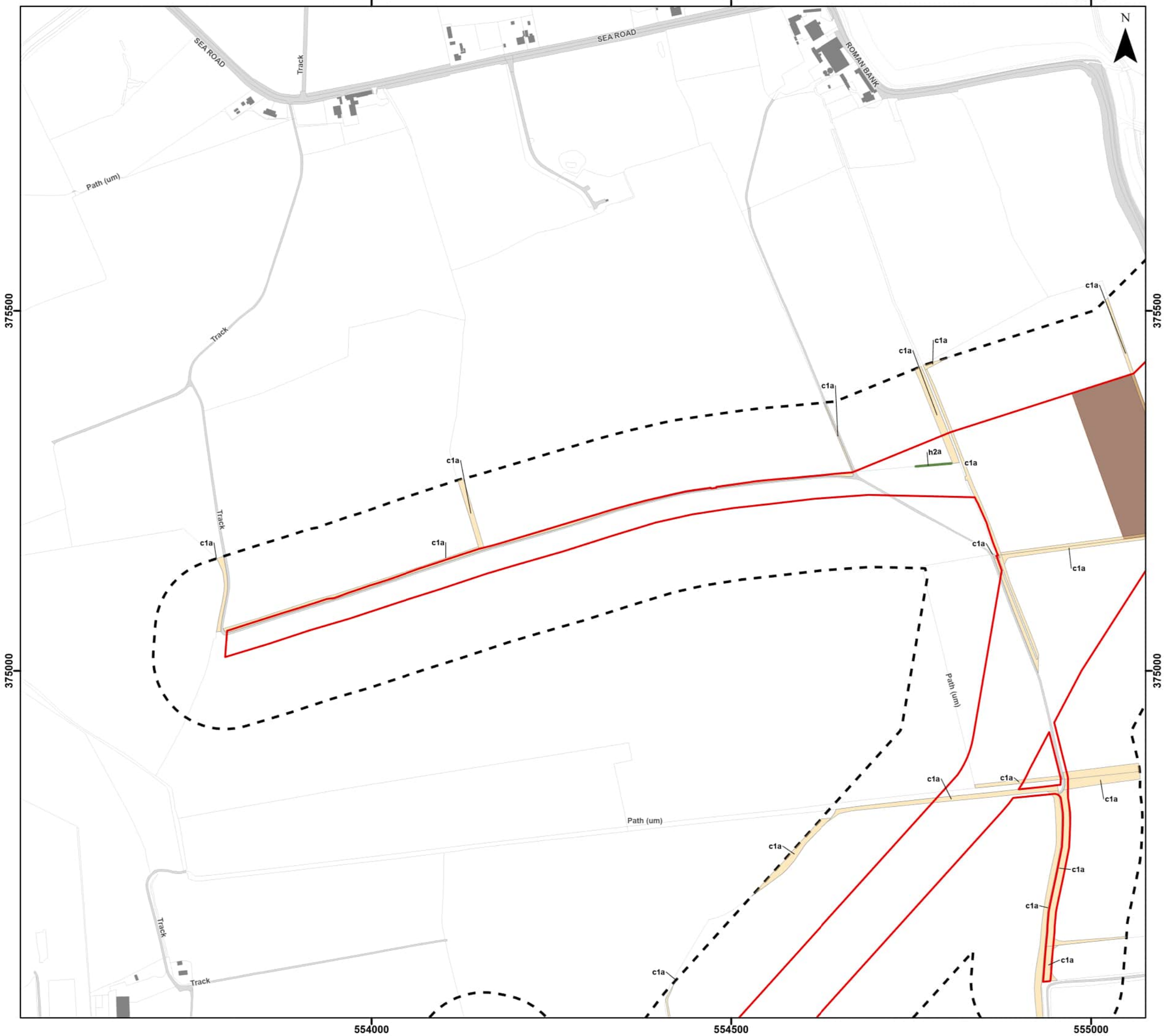

Legend

- Order Limits
- Order Limits 100 m Buffer
- Transition Joint Bay Area

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.2

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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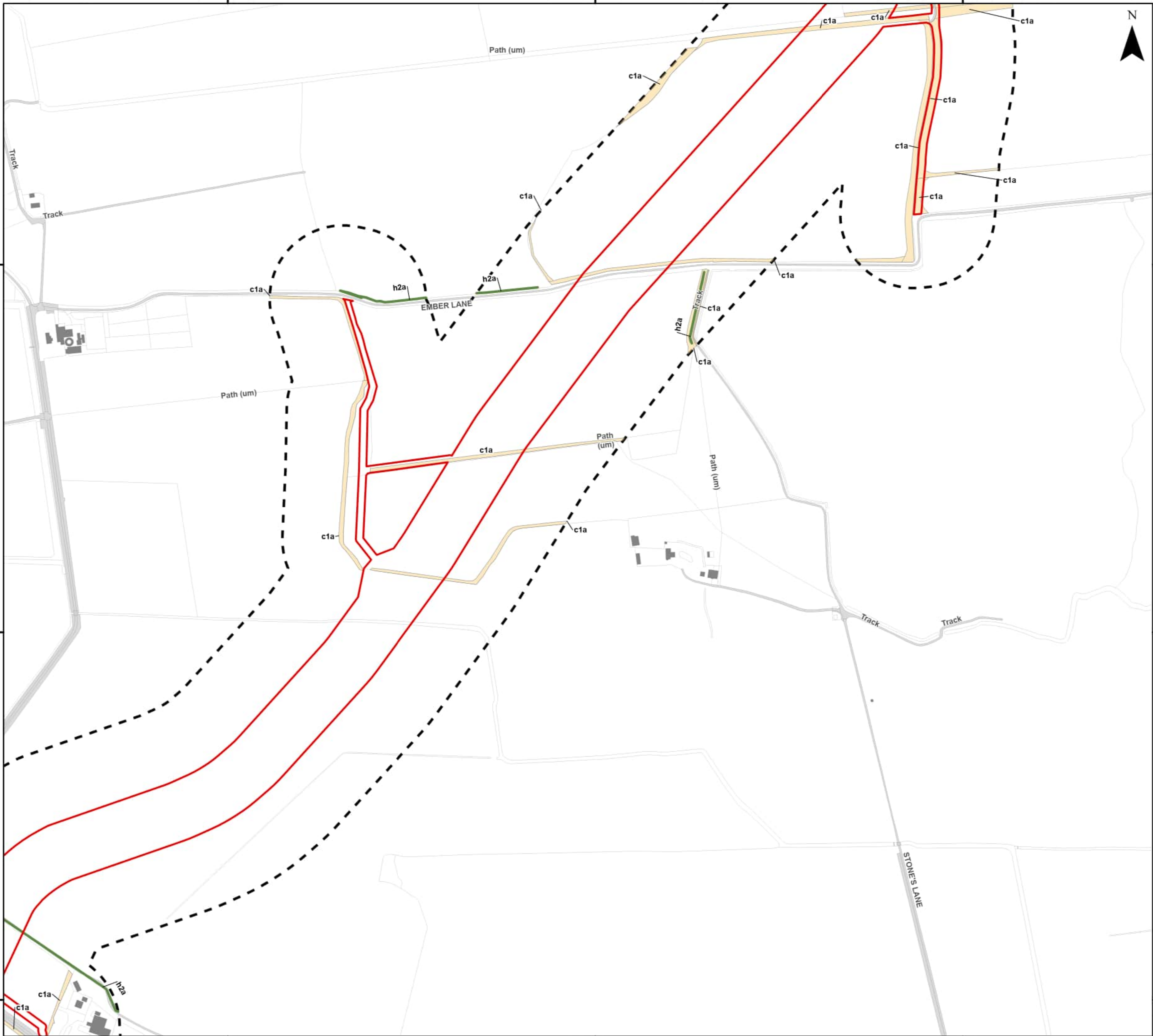

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

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A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.3

OUTER DOWSING OFFSHORE WIND

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552500 553000 553500 554000

374000 373500 373000

N

Path (um)
GREEN LANE (TRACK)
WILLEY'S LANE
Track
LANGHAM ROAD
LOWGATE ROAD
ECC 1: Landfall to A52 - Hogsthorpe
ECC 2: A52 - Hogsthorpe to Marsh Lane

c1a
c1a 76
c1a 10
h2a
r1a 41 19 361
r1a 19 39 362
r1a 19 39
w1d

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows
h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture
c1a - Arable Field Margins

Rivers and Lakes - Standing Open Water and Canals
r1a - Eutrophic Standing Waters

Woodland and Forest - Broadleaved Mixed and Yew Woodland
w1d - Wet Woodland

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.4

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

552500
553000
553500
372500
372000
371500
N
ECC 1: Landfall to A52 - Hogsthorpe
ECC 2: A52 - Hogsthorpe to Marsh Lane
BRACKEN LANE
WEST END
THAMES STREET
THAMES CRESCENT
CARSON CLOSE
HIGH STREET
TAVERN LANE
SOUTHERN
ST MARYS CLOSE
LISTOFT LANE
SLOOTHBY HIGH LANE
LANE
Track
Path
Path (um)
GP
A52
h2a
r1a 19 39 362
r1a 19 39
c1a 17
c1a 190
c1a
g3 25
Coastal and floodplain grazing marsh

Legend

Order Limits
Onshore Segment Break
Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows
h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture
c1a - Arable Field Margins

Grassland - Neutral Grassland
g3 - Neutral Grassland

Rivers and Lakes - Standing Open Water and Canals
r1a - Eutrophic Standing Waters

Natural England Priority Habitat
Coastal and Floodplain Grazing Marsh

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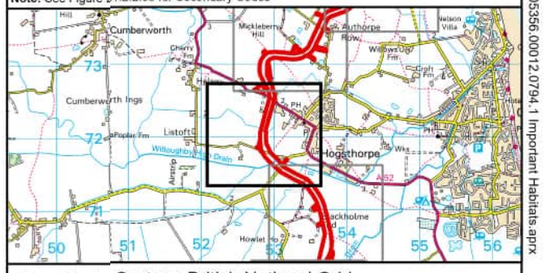
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid
0 50 100 200 Metres
Scale: 1:5,000
A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.5

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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SLR

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Grassland - Neutral Grassland

- g3 - Neutral Grassland

Rivers and Lakes - Standing Open Water and Canals

- r1a - Eutrophic Standing Waters

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.6

OUTER DOWSING OFFSHORE WIND

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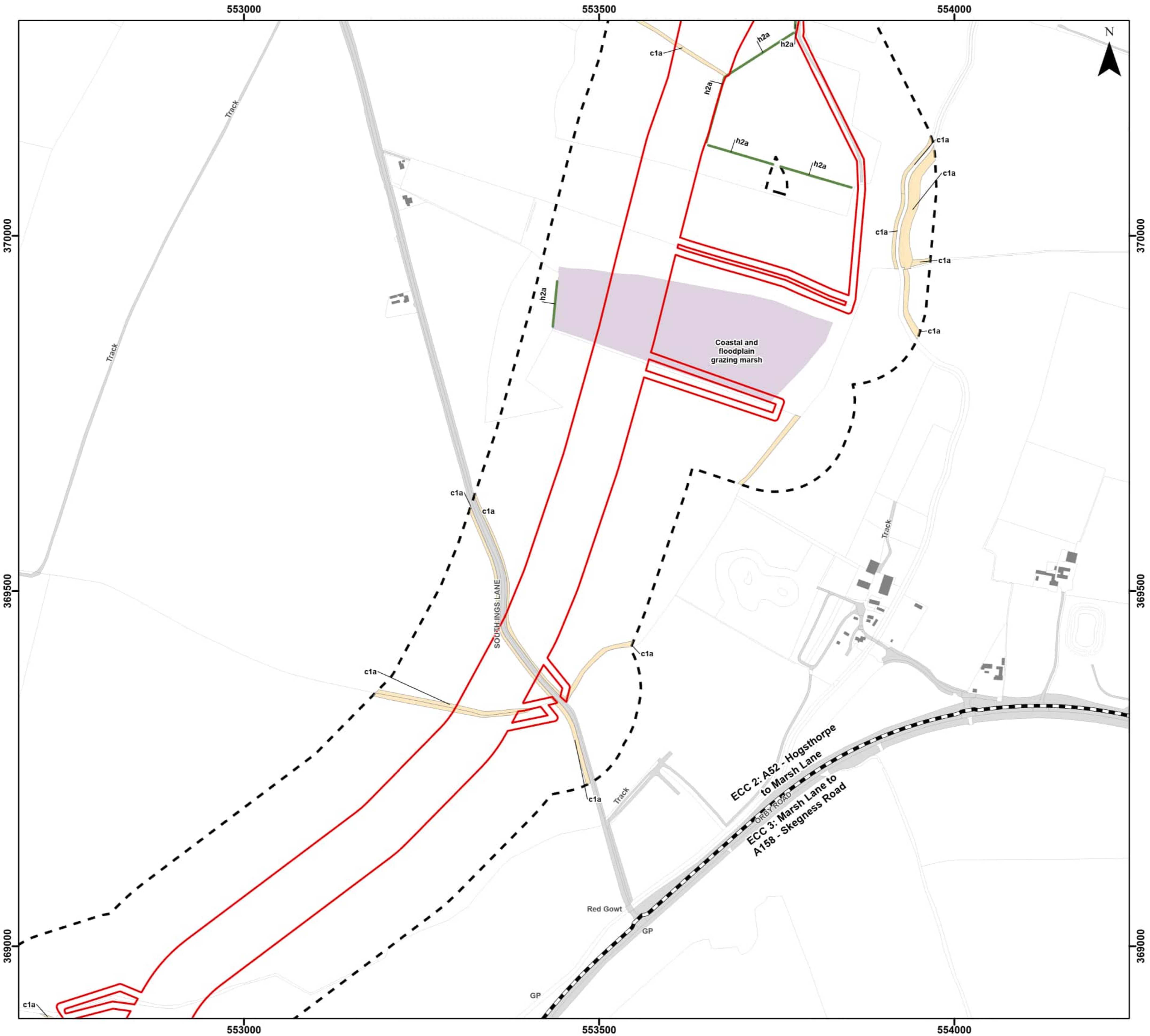

Legend

Order Limits

Onshore Segment Break

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

Natural England Priority Habitat

Coastal and Floodplain Grazing Marsh

Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.7

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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552000 552500 553000 553500

369000 368500 368000

N

c1a
c1a
Coastal and floodplain grazing marsh
c1a
c1a
c1a
Track
Track
h2a
h2a
c1a
c1a
c1a
c1a
f2e
c1a
GP
MARSH LANE
ECC 2: A52 - Hogsthorpe to Marsh Lane
ECC 3: Marsh Lane to A158 - Skegness Road

552000 552500 553000 553500

369000 368500 368000

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Wetland - Fen Marsh and Swamp

- f2e - Reedbeds

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

Sources:
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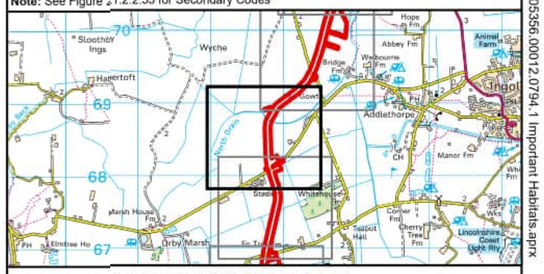
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.8

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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SLR

552500
553000
553500
368000
367500
367000
N
Track
c1a
h2a
f2e
ECC 2: A52 - Hogsthorpe to Marsh Lane
ECC 3: Marsh Lane to A158 - Skegness Road
MARSH LANE
ROAD

Legend

Order Limits

Onshore Segment Break

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

Wetland - Fen Marsh and Swamp

f2e - Reedbeds

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.9

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

552000 552500 553000 553500

367000 366500 366000

N

c1a
ROAD
GP
Track
f2e
r1a
39 19
YOUNGER'S LANE
Coastal and floodplain grazing marsh
h2a

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

Rivers and Lakes - Standing Open Water and Canals

r1a - Eutrophic Standing Waters

Wetland - Fen Marsh and Swamp

f2e - Reedbeds

Natural England Priority Habitat

Coastal and Floodplain Grazing Marsh

Sources:

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.10

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

552500 553000 553500 554000

366000 365500 365000

N

YOUNGER'S LANE

YOUNGER'S LANE

HIDE'S

GP

MIDDLEMARSH

ROAD

Track

c1a

f2e

r1a 39 19

h2a

w1f

Coastal and floodplain grazing marsh

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

Rivers and Lakes - Standing Open Water and Canals

r1a - Eutrophic Standing Waters

Wetland - Fen Marsh and Swamp

f2e - Reedbeds

Woodland and Forest - Broadleaved Mixed and Yew Woodland

w1f - Lowland Mixed Deciduous Woodland

Natural England Priority Habitat

Coastal and Floodplain Grazing Marsh

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.11

OUTER DOWSING OFFSHORE WIND

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552000 552500 553000

365500 365000 364500

N

Track Track Track Track

ECC 3: Marsh Lane to A158 - Skegness Road

ECC 4: A158 Skegness Road to Low Road

SKEGNESS ROAD A158 Lay-by SKEGNESS ROAD Lay-by A158

Coastal and floodplain grazing marsh

Coastal and floodplain grazing marsh

Coastal and floodplain grazing marsh

Coastal and floodplain grazing marsh

c1a h2a c1a5 w1f

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins
- c1a5 - Arable Margins Sown With Tussocky Grasses

Woodland and Forest - Broadleaved Mixed and Yew Woodland

- w1f - Lowland Mixed Deciduous Woodland

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.12

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins
- c1a5 - Arable Margins Sown With Tussocky Grasses

Wetland - Fen Marsh and Swamp

- f2e - Reedbeds

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh
- Good Quality Semi-improved Grassland

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.13

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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551500 552000 552500

363000 362500 362000

N

ECC 4: A158 Skegness Road to Low Road

ECC 5: Low Road to Steeping River

LOW ROAD

PINCHBECK LANE

MIDDLEMARSH ROAD

Track

Path (um)

Coastal and floodplain grazing marsh

c1a

f2e

h2a

76 64

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Wetland - Fen Marsh and Swamp

- f2e - Reedbeds

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.14

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

551000
551500
552000
361500
361000
N
PINCHBECK LANE
SYCAMORE CL
CHURCH LANE
Path (um)
Track
Lay-by
A 52
Coastal and floodplain grazing marsh
g4 25
g4 25 58
Deciduous woodland
c1a
h2a
Weighbridge
CHURCH
CROFT
GP
HAVEN

Legend

Order Limits
Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

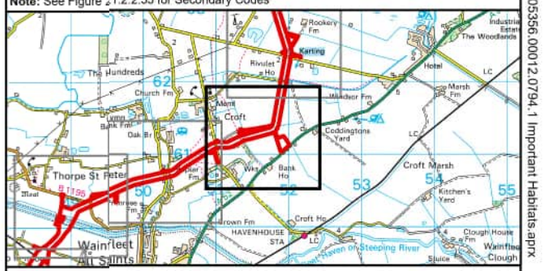
Grassland - Modified Grassland

g4 - Modified Grassland

Natural England Priority Habitat

Coastal and Floodplain Grazing Marsh
Deciduous Woodland

Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.15

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

550000 550500 551000

361000

360500

N

GP GP

CROFT LANE

WEDLAND GP

Path (um)

Coastal and floodplain grazing marsh

g4 25

Coastal and floodplain grazing marsh

c1a

h2a

Coastal and floodplain grazing marsh

Coastal and floodplain grazing marsh

Track

g4 25 58

Coastal and floodplain grazing marsh

ROAD

CROFT

Path (um)

A 52

CROFT

550000 550500 551000

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

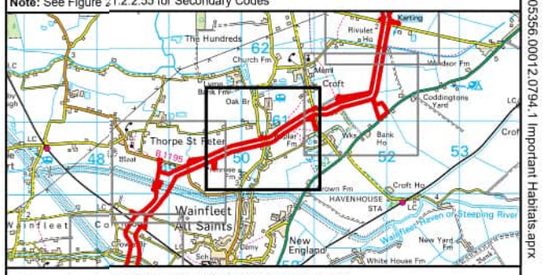
Grassland - Modified Grassland

g4 - Modified Grassland

Natural England Priority Habitat

Coastal and Floodplain Grazing Marsh

Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.16

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

548500 549000 549500

360500 360000

N

WEDLAND LANE
SPILSBY ROAD
GP
GREEN LANE
WAINFLEET ROAD
B 1195
Track
c1a
h2a
Coastal and floodplain grazing marsh
BREWSTER LANE

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

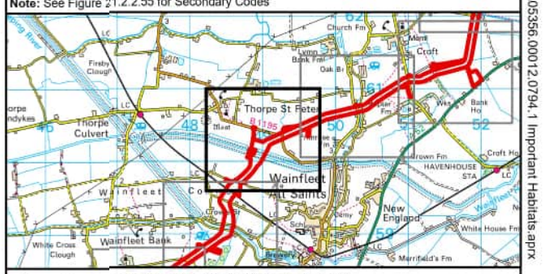
Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

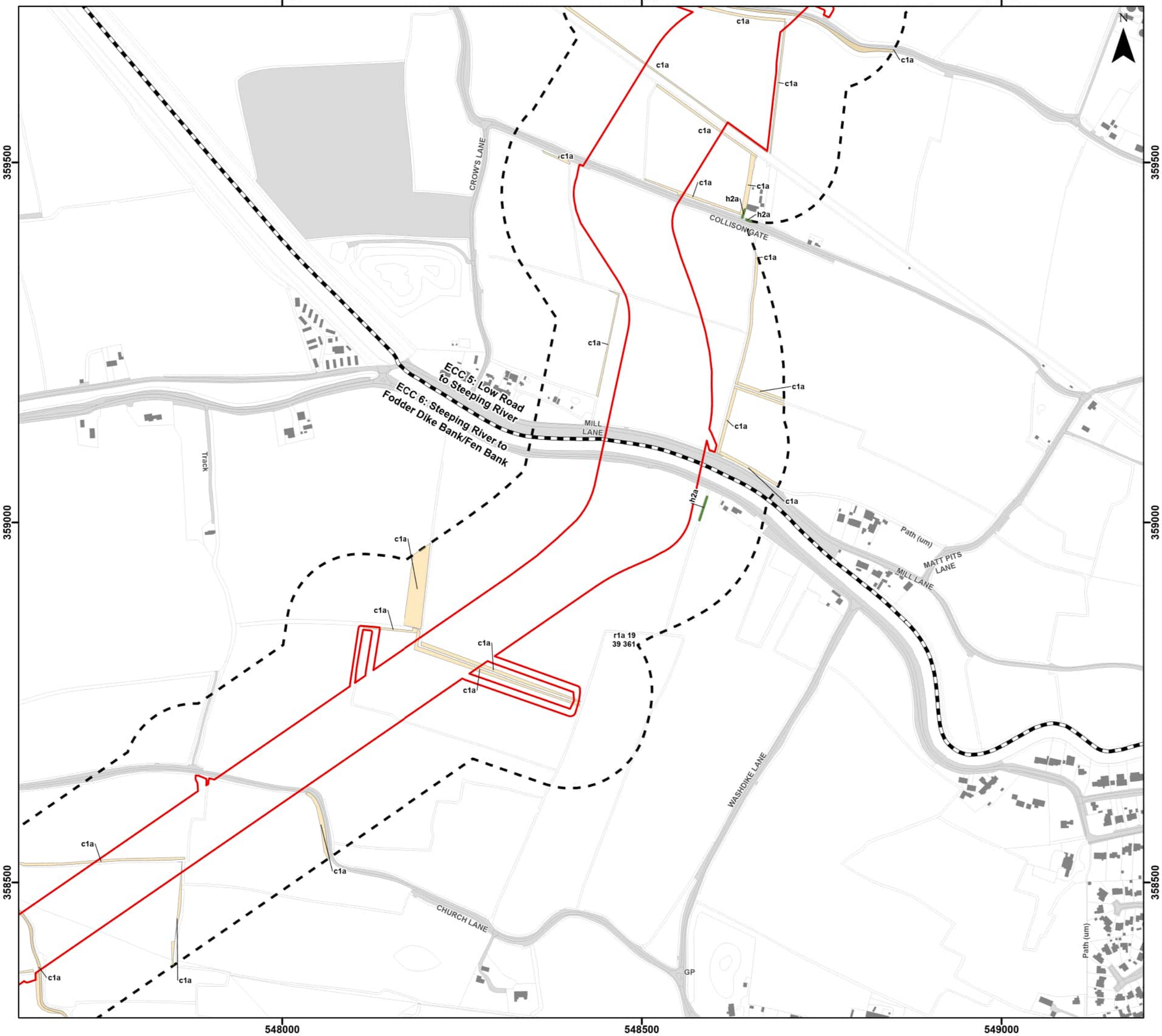
Important Habitats

Figure 21.2.2.17

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR



Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Rivers and Lakes - Standing Open Water and Canals

- r1a - Eutrophic Standing Waters

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.18

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

547000
547500
548000
358500
358000
357500
N
Swan Lane (Path)
CHURCH LANE
GP
w1f
Path (um)
HALL GATE (TRACK)
c1a
Path (um)
Path (um)
Path (um)
Path (um)
Path (um)
Track
SCALD GATE

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Woodland and Forest - Broadleaved Mixed and Yew Woodland

- w1f - Lowland Mixed Deciduous Woodland

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.19

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

548000
548500
549000
358000
357500
357000

N

c1a
Track
Path (um)
ABRAHAM'S LANE (TRACK)
Track
SCALD GATE
LOW ROAD
ACRE'S GATE (TRACK)
POLAR BANK (TRACK)
IVY LANE
IVY LANE
LOW ROAD
A 52

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Sources:

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.20

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

546500 547000 547500

357500 357000 356500

Track
Track
FEN BANK
BURGH ROAD
BURGH ROAD
EAU DIKE ROAD
ARMSTRONG'S LANE
LOW ROAD
GP
Coastal and floodplain grazing marsh
g4 25 64
Deciduous woodland
c1a
ECC 6: Steeping River to Fodder Dike Bank/Fen Bank
ECC 7: Fodder Dike Bank/Fen Bank to Broadgate
N

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Grassland - Modified Grassland

- g4 - Modified Grassland

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh
- Deciduous Woodland

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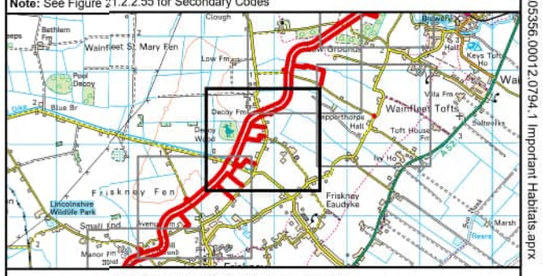
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.21

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

545500
546000
546500
356500
356000
355500
N
ECC 6: Steeping River to Fodder Dike Bank/Fen Bank
ECC 7: Fodder Dike Bank/Fen Bank to Broadgate
FEN BANK
GRANBERRY LANE
BURGH ROAD
MILL HILL
Track
GP
CHEALES CLOSE
BOWMAN AVENUE
LOW ROAD
THE AVENUE
SMITHY LANE
Track Track
Path
SMALL END ROAD
c1a
h2a
c1a 10 11

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.22

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

544500 545000 545500

355500 355000 354500

N

SMALL END ROAD
MILL HILL
CHURCH LANE
HOWGARTH LANE
YAWLING GATE
Track
GP
Deciduous woodland
c1a
h2a
c1a 10 11

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Natural England Priority Habitat

- Deciduous Woodland

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.23

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

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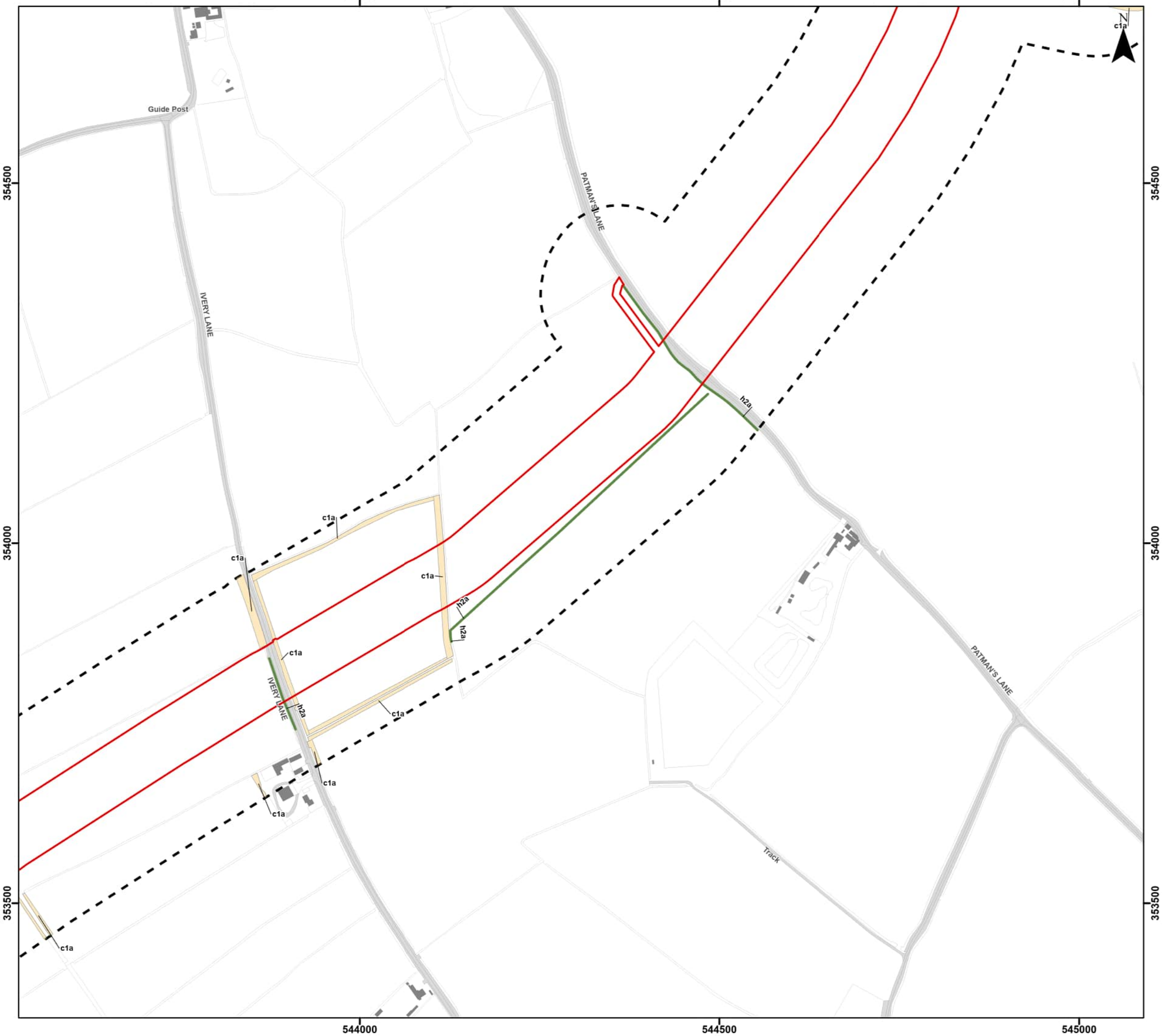

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

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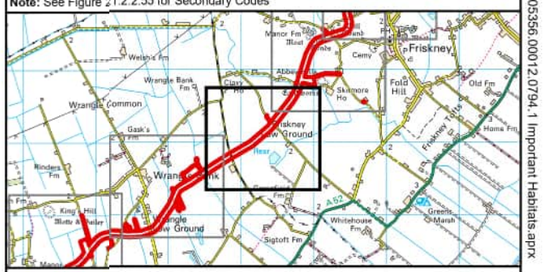
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.24

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

542500 543000 543500

354000 353500 353000

N

CHINA STREET
BULL DROVE
WRANGLE BANK
Track
LOVE LANE
Track
Track
Track
ECC 7: Fodder Dike Bank/Fen Bank to Broadgate
ECC 8: Broadgate to Ings Drove
BROAD GATE
CRAGMIRE LANE
Track
Track
Track

c1a
No main habitat but additional habitats present
r1a 39 19 361
r1a 36 19 361
h2a

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Rivers and Lakes - Standing Open Water and Canals

- r1a - Eutrophic Standing Waters

Natural England Priority Habitat

- No Main Habitat but Additional Habitats Present

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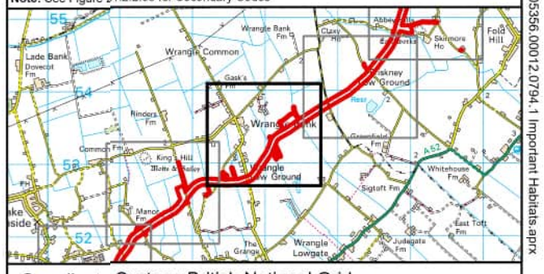
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.25

OUTER DOWSING OFFSHORE WIND

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541000 541500 542000

353000 352500 352000

WRANGLE BANK
WRANGLE BANK
LOW LANE
PARK LANE
MANOR LANE
PARK LANE
Track
DOUBLE BANK
COMMON ROAD
CRAGMIRE LANE

c1a
r1a
19 39

N

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Rivers and Lakes - Standing Open Water and Canals

- r1a - Eutrophic Standing Waters

Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.26

OUTER DOWSING OFFSHORE WIND

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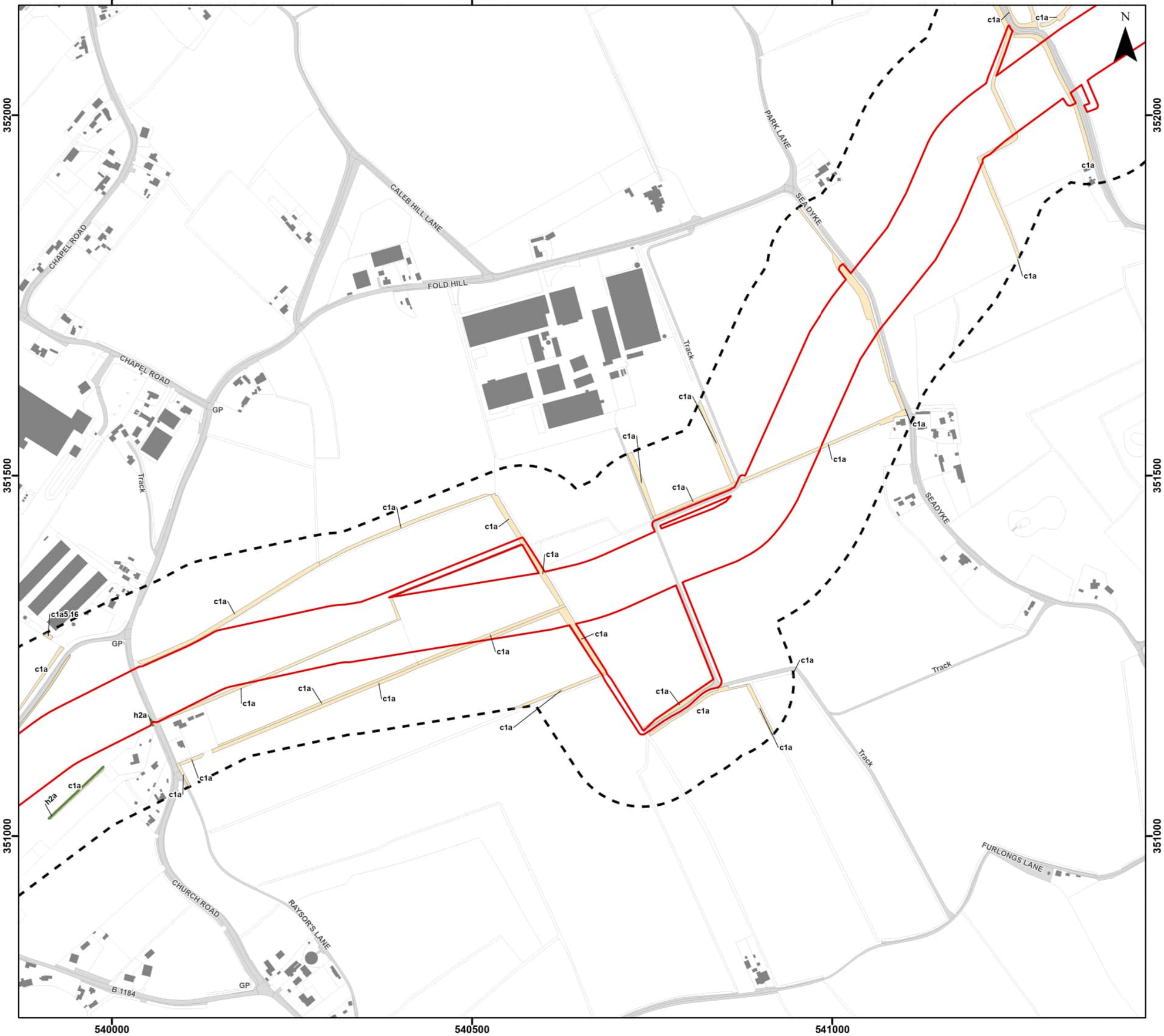

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

c1a5 - Arable Margins Sown With Tussocky Grasses

Sources:
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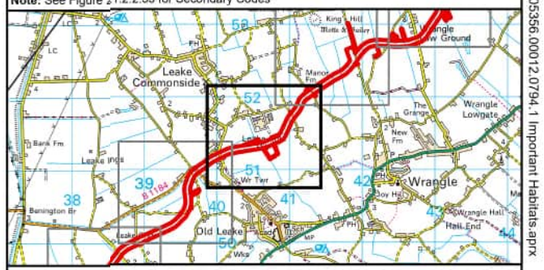
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.27

OUTER DOWSING OFFSHORE WIND

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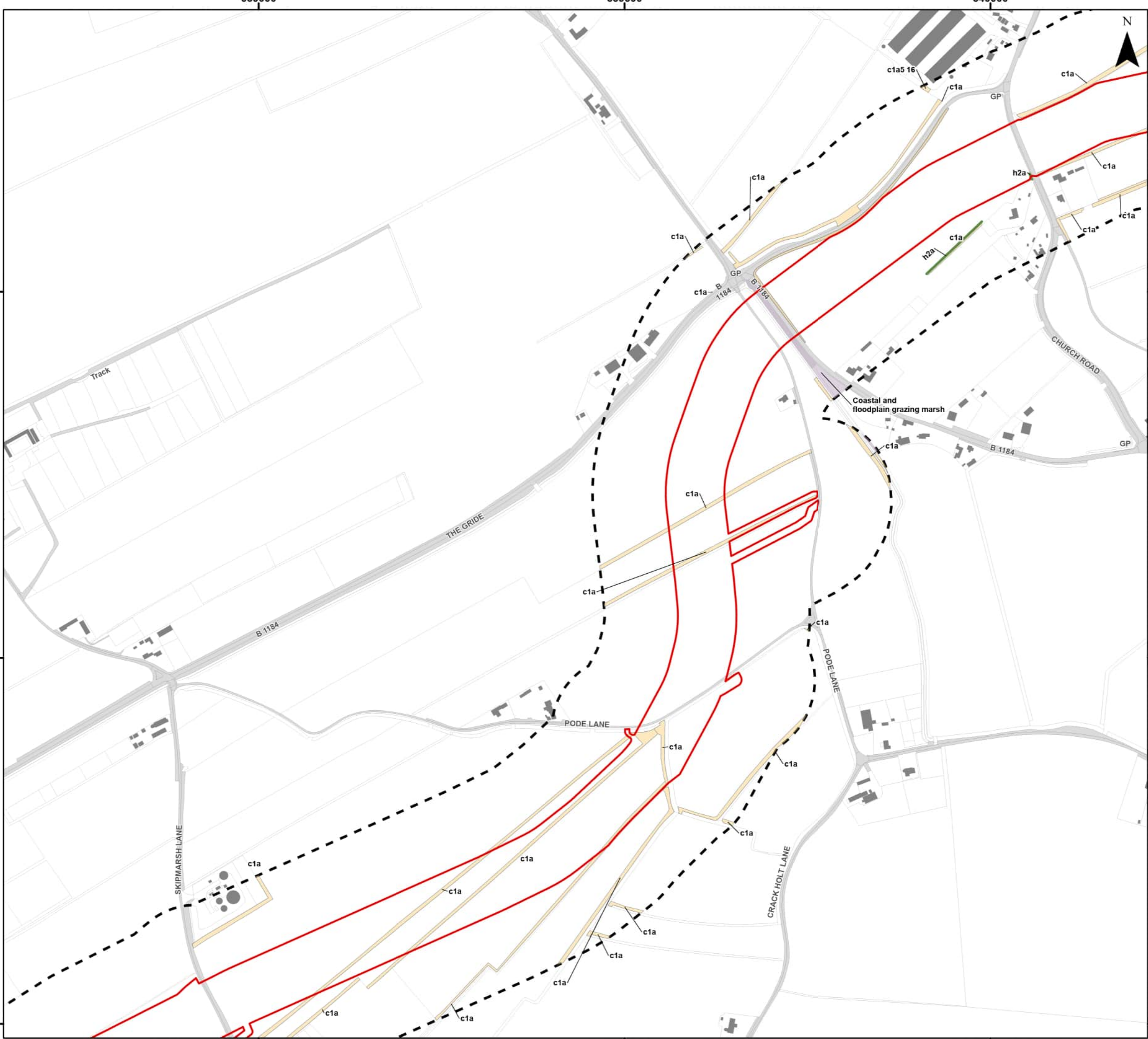

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

c1a5 - Arable Margins Sown With Tussocky Grasses

Natural England Priority Habitat

Coastal and Floodplain Grazing Marsh

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.28

OUTER DOWSING OFFSHORE WIND

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538000
538500
539000
350000
349500
349000
N
INGS DROVE
SOUTHFIELDS
SOUTHFIELDS
SKIPMARSH LANE
Track
INGS DROVE
INGS ROAD
GRIDE BANK
ECC 8: Broadgate to Ings Drove
ECC 9: Ings Drove to Church End Lane
c1a
f2e
f2e 10

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Wetland - Fen Marsh and Swamp

- f2e - Reedbeds

Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.29

OUTER DOWSING OFFSHORE WIND

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537000
537500
538000
349000
348500
348000
N
f2e 10
f2e
c1a
INGS ROAD
Track
INGS DROVE
HOBHOLE BANK
h2a
GP
MIDDLEMERE BANK

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Wetland - Fen Marsh and Swamp

- f2e - Reedbeds

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.30

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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SLR

537000
537500
538000
347500
347000
346500
N
GP
HOBHOLE BANK
DOUBLE BANK
LOWFIELDS LANE
LOWFIELDS LANE
STRAYFLEETS LANE
c1a

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.31

OUTER DOWSING OFFSHORE WIND

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536500
537000
537500
538000
346500
346000
345500
N
HOBHOLE BANK
EMERY LANE (TRACK)
SWANHOLE LANE
WEIRS LANE
DOTAM'S LANE
Track
OAK HOUSE LANE
ACORN CLOSE
HOMERS LANE
GP
A52
c1a

Legend

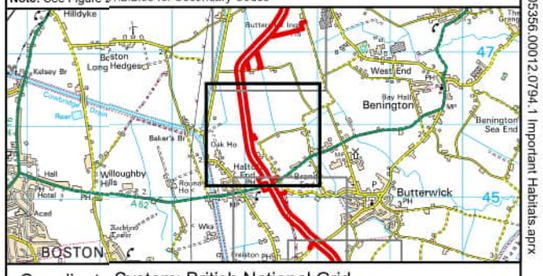
- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.32

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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SLR

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Sources:

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.33

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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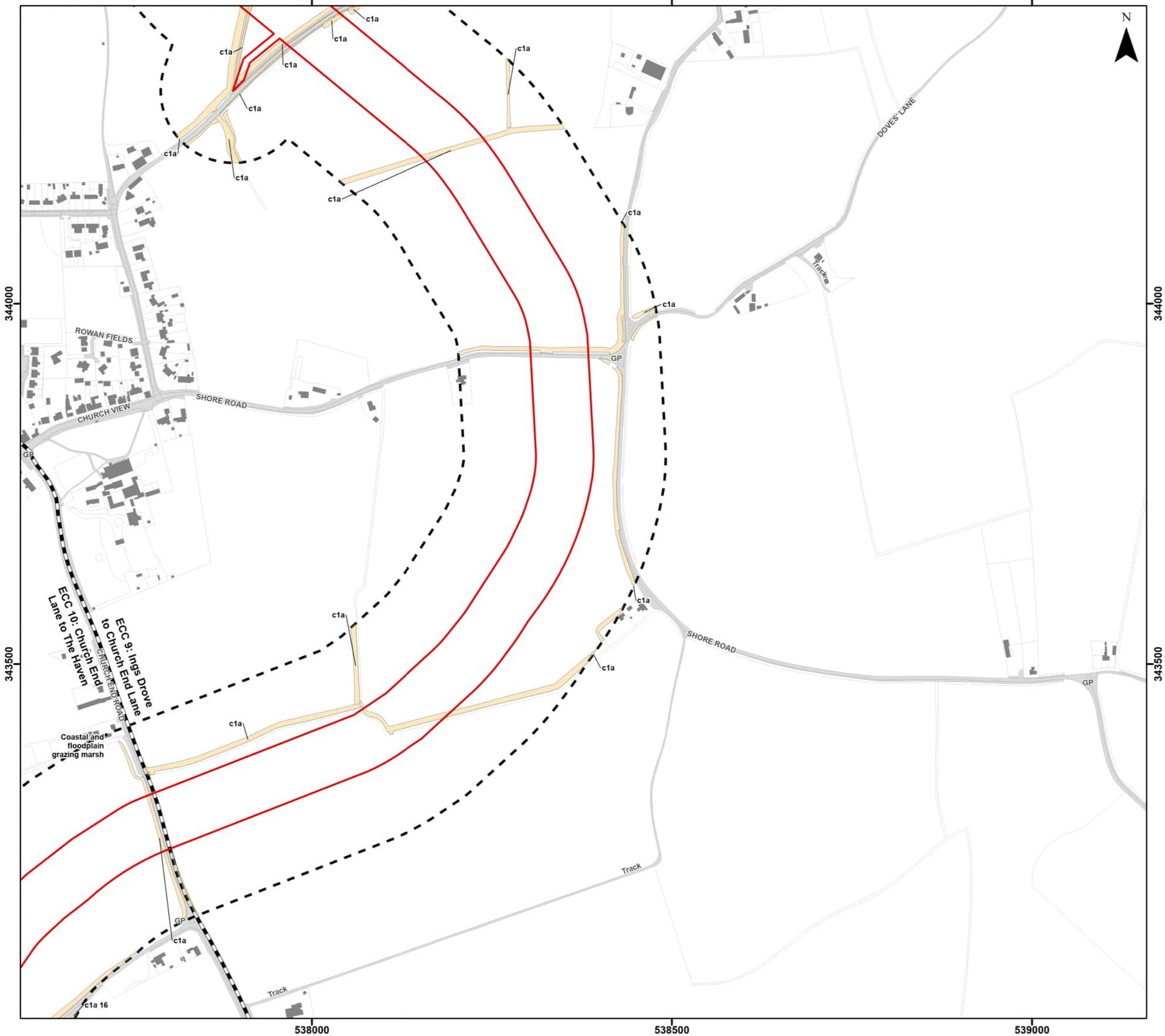

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

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Environmental Statement

Important Habitats

Figure 21.2.2.34

OUTER DOWSING OFFSHORE WIND

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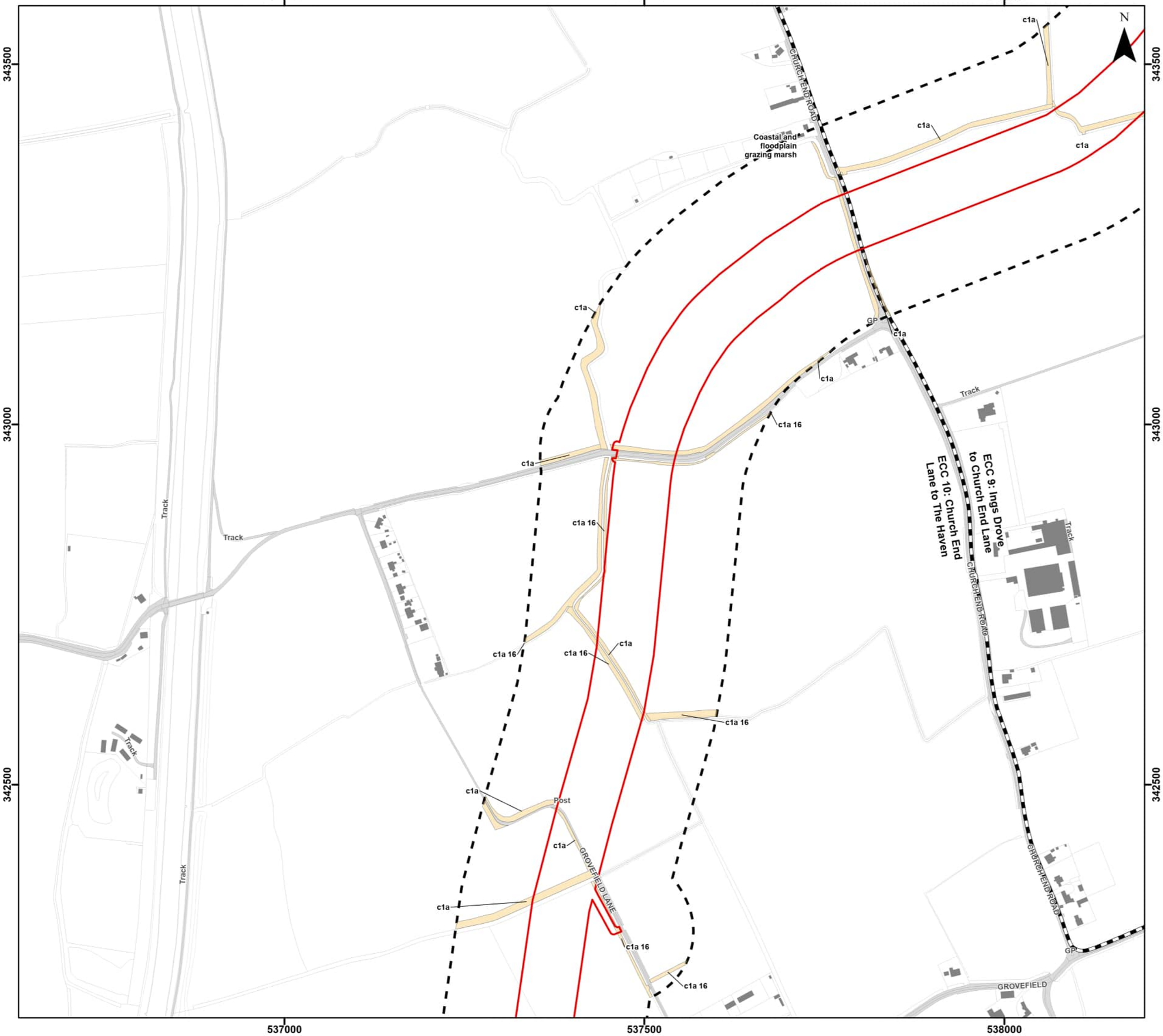

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.35

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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Revision: 0.1

SLR

537000
537500
538000
342000
341500
341000
N
GP
c1a
c1a 16
GROVEFIELD
CROPPER'S LANE
Track
Deciduous woodland
CUT END ROAD
WOAD LANE
Path (um)

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

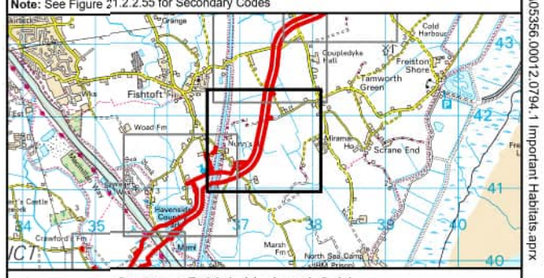
Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Natural England Priority Habitat

- Deciduous Woodland

Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.36

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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SLR

535500
536000
536500
341500
341000
340500
N
SCALP ROAD
PINFOLD LANE
SOUTHFIELD LANE
CUT END ROAD
WOAD LANE
Track
Path (um)
GP
c1a
c1a 16
h2a
t2d 30
r2b 30 131
Mudflats
Deciduous woodland
ECC 10: Church End Lane to The Haven
ECC 11: The Haven to Marsh Road

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Marine Inlets and Transitional Waters - Littoral Sediment

- t2d - Intertidal Mudflats

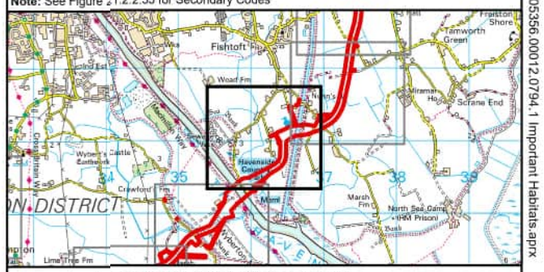
Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Natural England Priority Habitat

- Deciduous Woodland
- Mudflats

Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.37

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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SLR

531500
532000
532500
340500
340000
339500
N
A16
Track
c1a
LOW ROAD
GP
STREETWAY
Lay-by
MILLFIELD LANE (WEST)
MILLFIELD LANE (EAST)
HALL LANE
THORNIMANS LANE
Deciduous woodland

Legend

- Order Limits
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

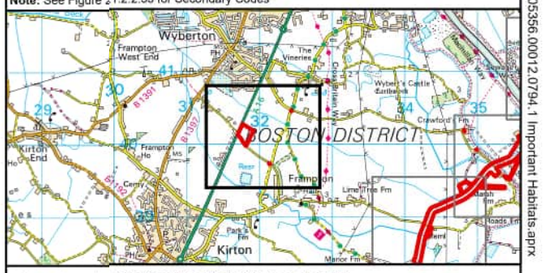
- c1a - Arable Field Margins

Natural England Priority Habitat

- Deciduous Woodland

Sources:

Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.38

OUTER DOWSING OFFSHORE WIND

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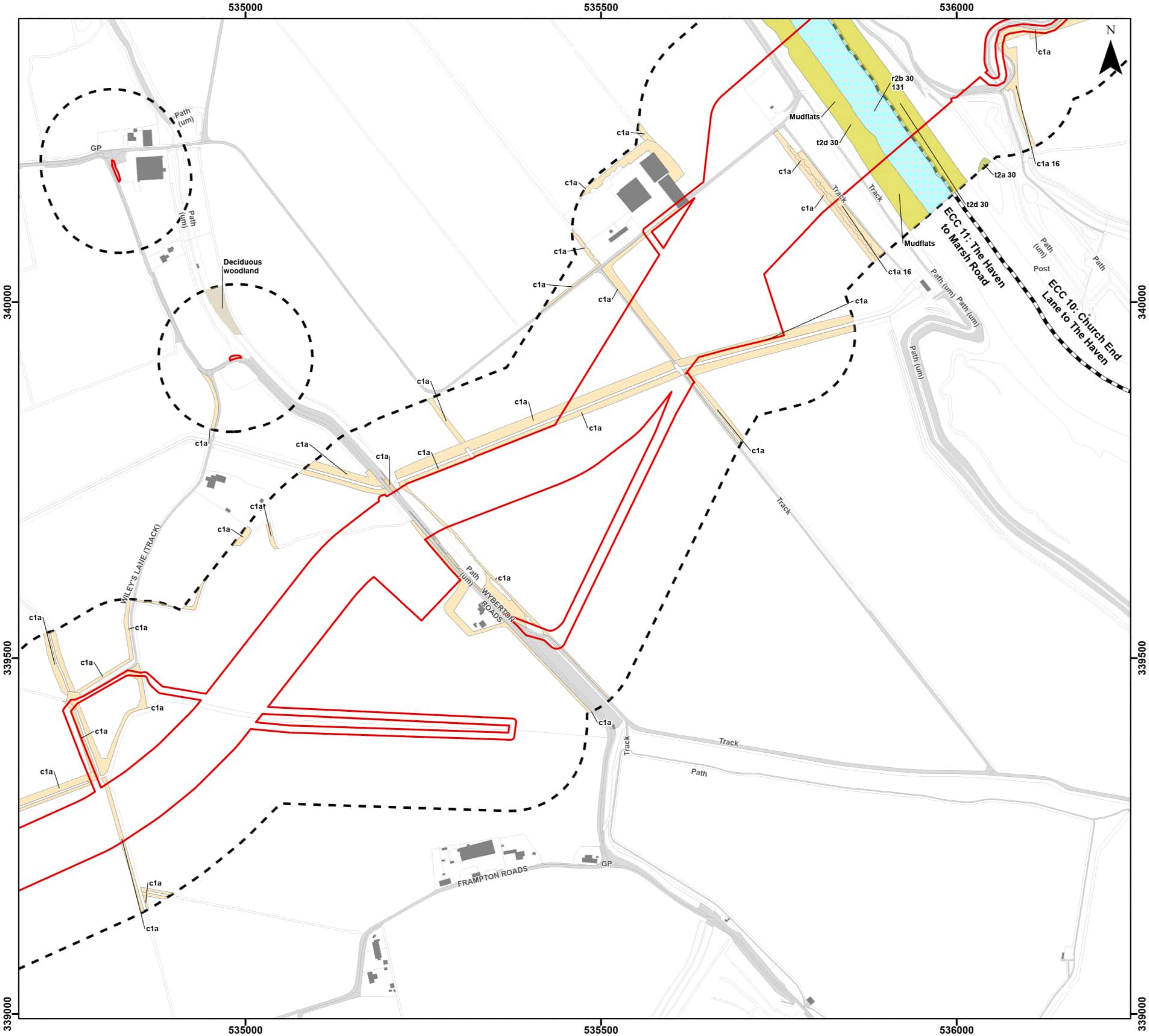

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Marine Inlets and Transitional Waters - Littoral Sediment

- t2a - Coastal Saltmarsh
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Natural England Priority Habitat

- Deciduous Woodland
- Mudflats

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Note: See Figure 21.2.2.55 for Secondary Codes

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Environmental Statement

Important Habitats

Figure 21.2.2.39

OUTER DOWSING OFFSHORE WIND

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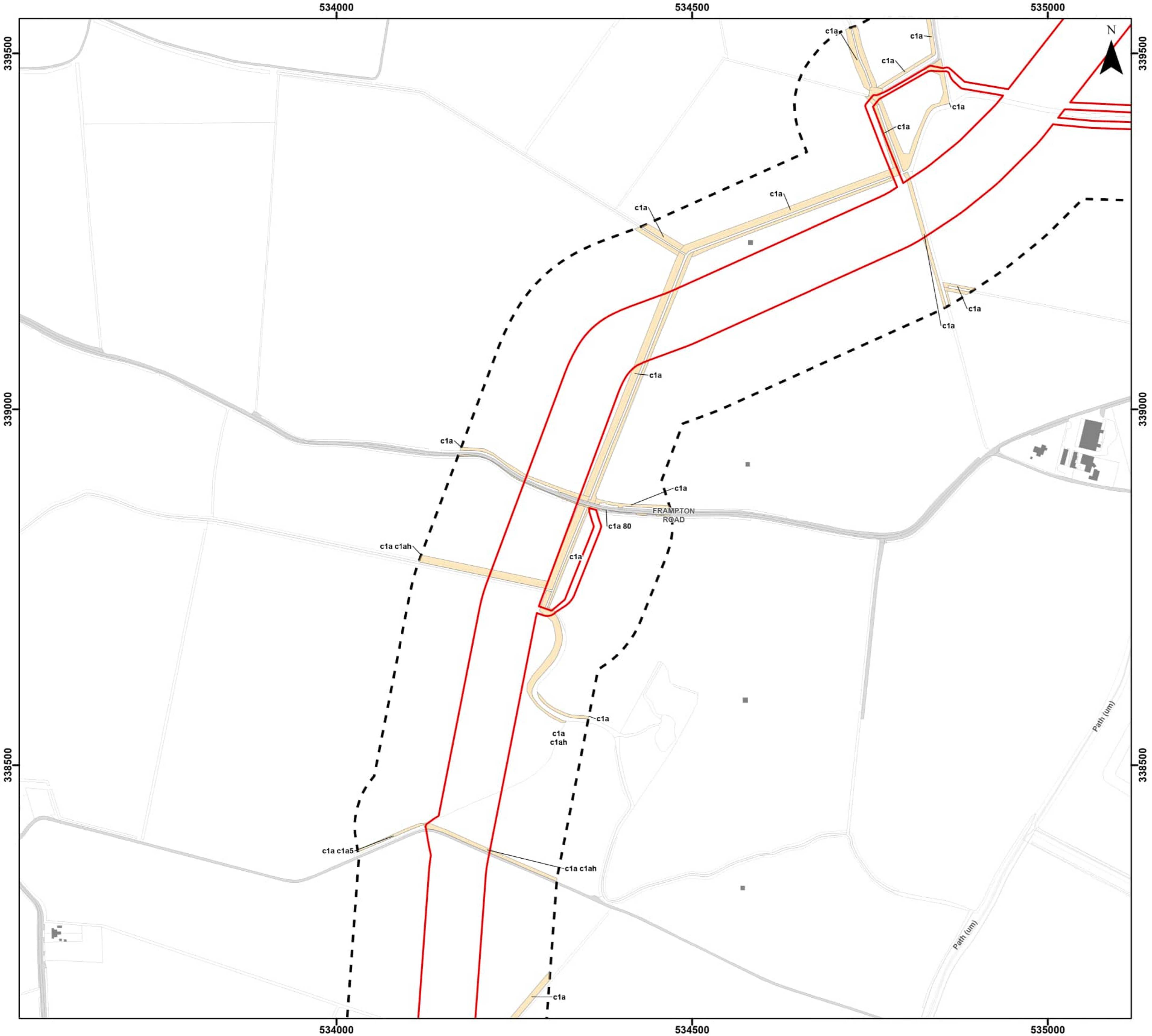

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

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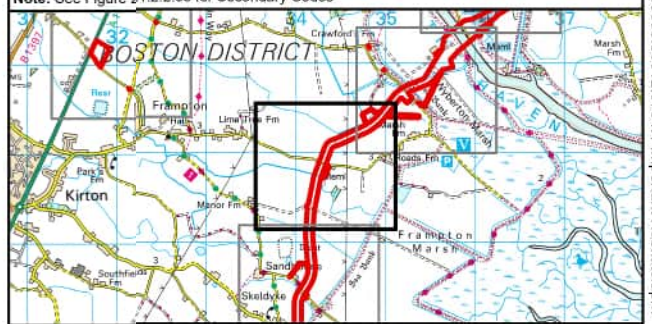
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000

A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.40

OUTER DOWSING OFFSHORE WIND

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533500
534000
534500
338000
337500
337000
N
c1a
c1a c1ah
c1a
c1a
c1a
c1a
c1a
c1a 17
c1a
c1a 16
c1a
c1a
c1a
c1a 16
c1a
c1a
g4 25
c1a
g4 25
c1a
SANDHOLME LANE
BURNHAM LANE
Track
Path (um)
Track
Deciduous woodland
SANDHOLME LANE
Path (um)
GP
Track
MARSH LANE (TRACK)
Coastal and floodplain grazing marsh
SANDHOLME LANE

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Grassland - Modified Grassland

- g4 - Modified Grassland

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh
- Deciduous Woodland

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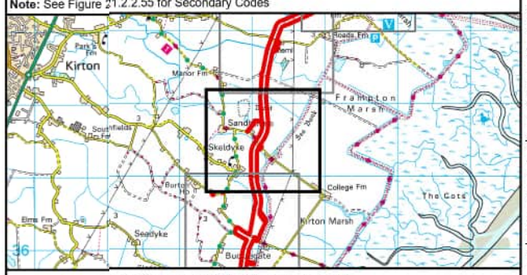
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.41

OUTER DOWSING OFFSHORE WIND

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SLR

533500
534000
534500
337000
336500
336000
N
NIDD'S LANE
Track
SILT LANE
MARSH ROAD
ECC 11: The Haven to Marsh Road
ECC 12: Marsh Road to Fosdyke Bridge
BUCKLEGATE LANE
Track
Path (um)
Track
Path (um)
Track
c1a
c1a 16
g4 25
g3 25
h2a
Coastal and floodplain grazing marsh

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Grassland - Neutral Grassland

- g3 - Neutral Grassland

Grassland - Modified Grassland

- g4 - Modified Grassland

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

Sources:

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.42

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
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SLR

533000
533500
534000
335500
335000
334500
N
SLOUGH LANE
Track
Path (um)
Coastal and floodplain grazing marsh
Deciduous woodland
c1a
h2a
Legend
Order Limits
Order Limits 100 m Buffer
Priority Habitats Linear Features - UK Habitat Classification
Heathland and Shrub - Hedgerows
h2a - Hedgerow (Priority Habitat)
Priority Habitats Area Features - UK Habitat Classification
Cropland - Arable and Horticulture
c1a - Arable Field Margins
Natural England Priority Habitat
Coastal and Floodplain Grazing Marsh
Deciduous Woodland
Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes
Coordinate System: British National Grid
0 50 100 200 Metres
Scale: 1:5,000
A3 Page Size
Environmental Statement
Important Habitats
Figure 21.2.2.43
OUTER DOWSING OFFSHORE WIND
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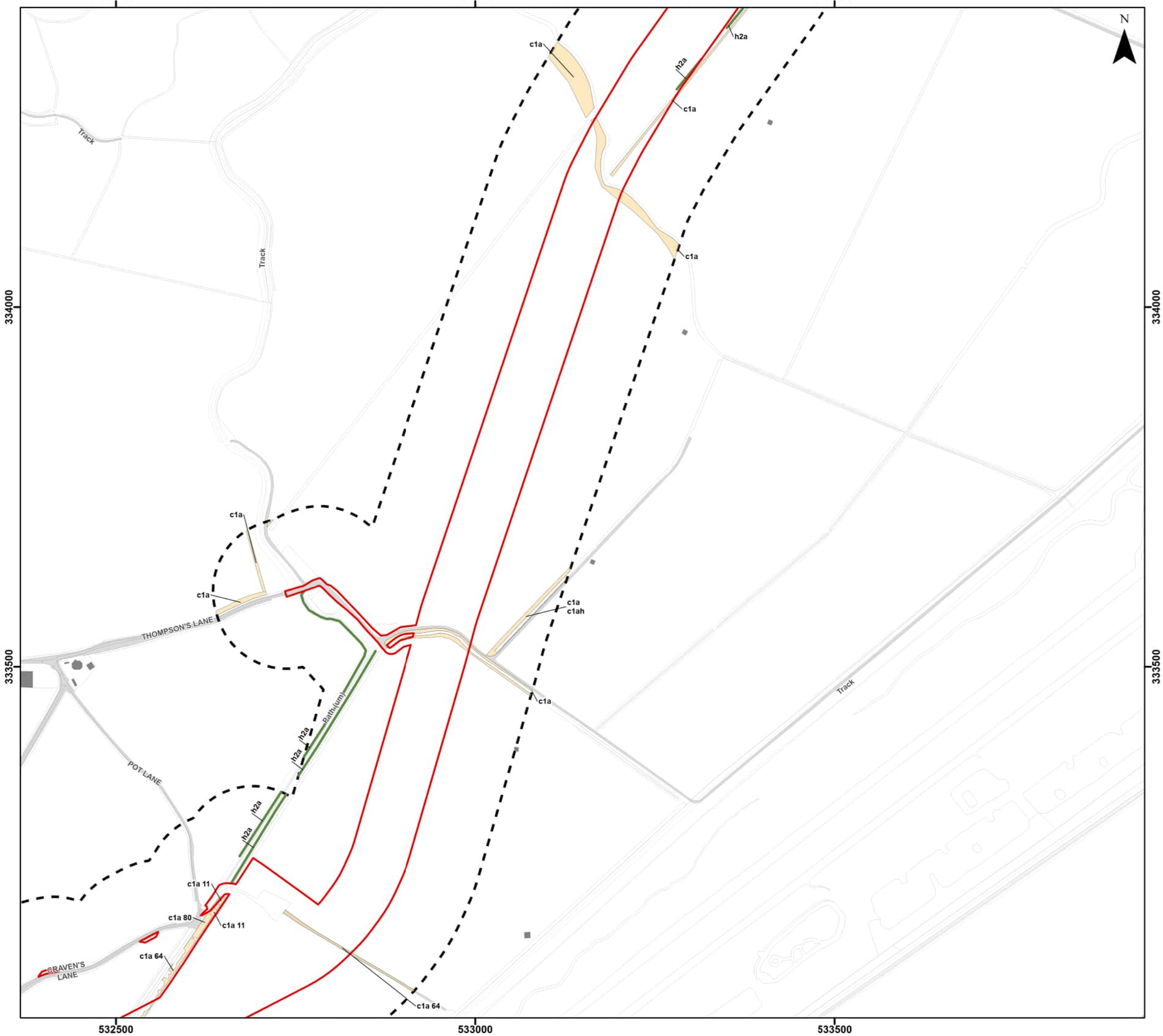

Legend

Order Limits

Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

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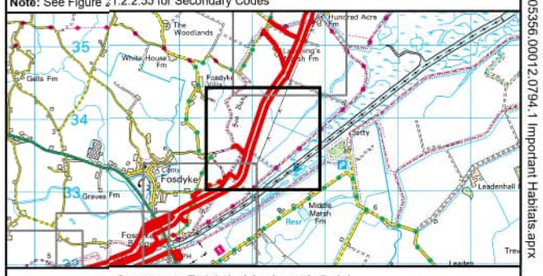
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.44

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

531500 532000 532500 533000

333000 332500 332000

N

POT LANE
WASH ROAD
GRAVEN'S LANE
PUTTOCK GATE
PULLOVER LANE
RANDOLPH ROAD
OLD MAIN ROAD
SNAITH AVENUE
ECC 12: Marsh Road to Fosdyke Bridge
ECC 13: Fosdyke to Surfleet Marsh OnSS/Marsh Drovey
A17
Track
GP
MIDDLE MARSH ROAD
SECOND DROVE (TRACK)

h2a
c1a
c1a 80
c1a 11
c1a 64
c1a 74
c1a 86
c1a 10
t2a
t2a 64
t2a 30
t2
t2 30
t2d
t2d 30
r2b 30 131
Mudflats
Coastal saltmarsh
Lowland calcareous grassland
No main habitat but additional habitats present

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Marine Inlets and Transitional Waters - Littoral Sediment

- t2 - Littoral Sediment
- t2a - Coastal Saltmarsh
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Natural England Priority Habitat

- Coastal Saltmarsh
- Lowland Calcareous Grassland
- Mudflats
- No Main Habitat but Additional Habitats Present

Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.45

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Marine Inlets and Transitional Waters - Littoral Sediment

- t2 - Littoral Sediment
- t2a - Coastal Saltmarsh
- t2d - Intertidal Mudflats

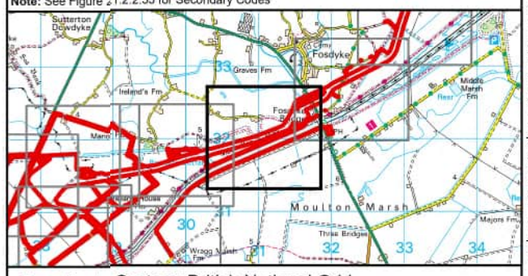
Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Natural England Priority Habitat

- Coastal Saltmarsh
- Lowland Calcareous Grassland
- Mudflats
- No Main Habitat but Additional Habitats Present

Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

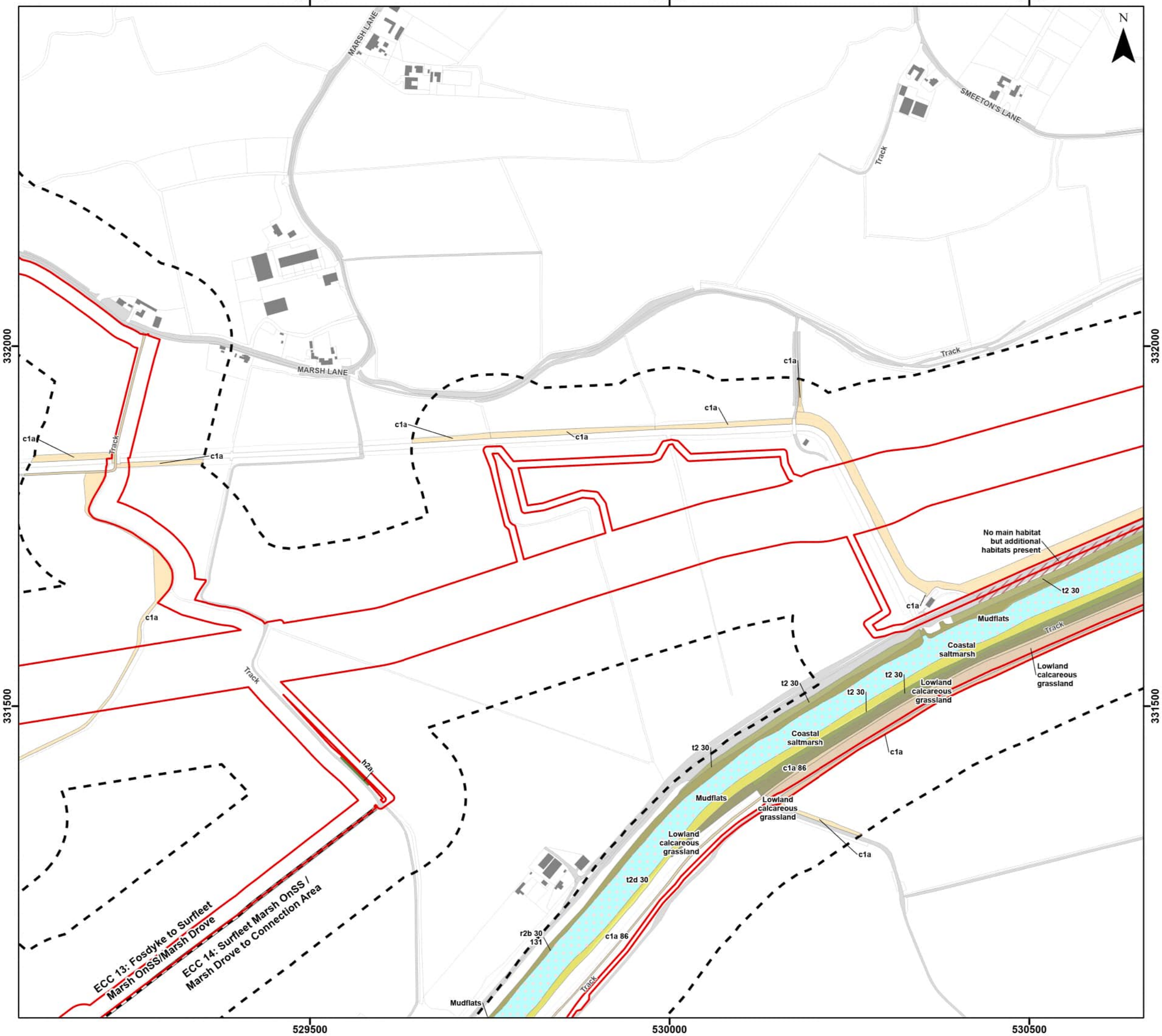
Important Habitats

Figure 21.2.2.46

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR



Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Marine Inlets and Transitional Waters - Littoral Sediment

- t2 - Littoral Sediment
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Natural England Priority Habitat

- Coastal Saltmarsh
- Lowland Calcareous Grassland
- Mudflats
- No Main Habitat but Additional Habitats Present

Sources:
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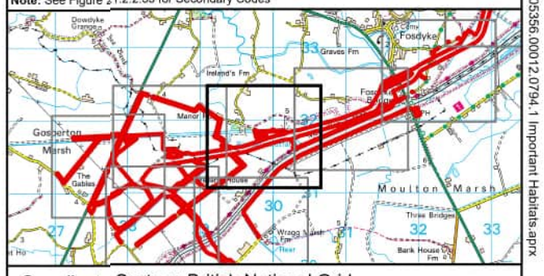
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

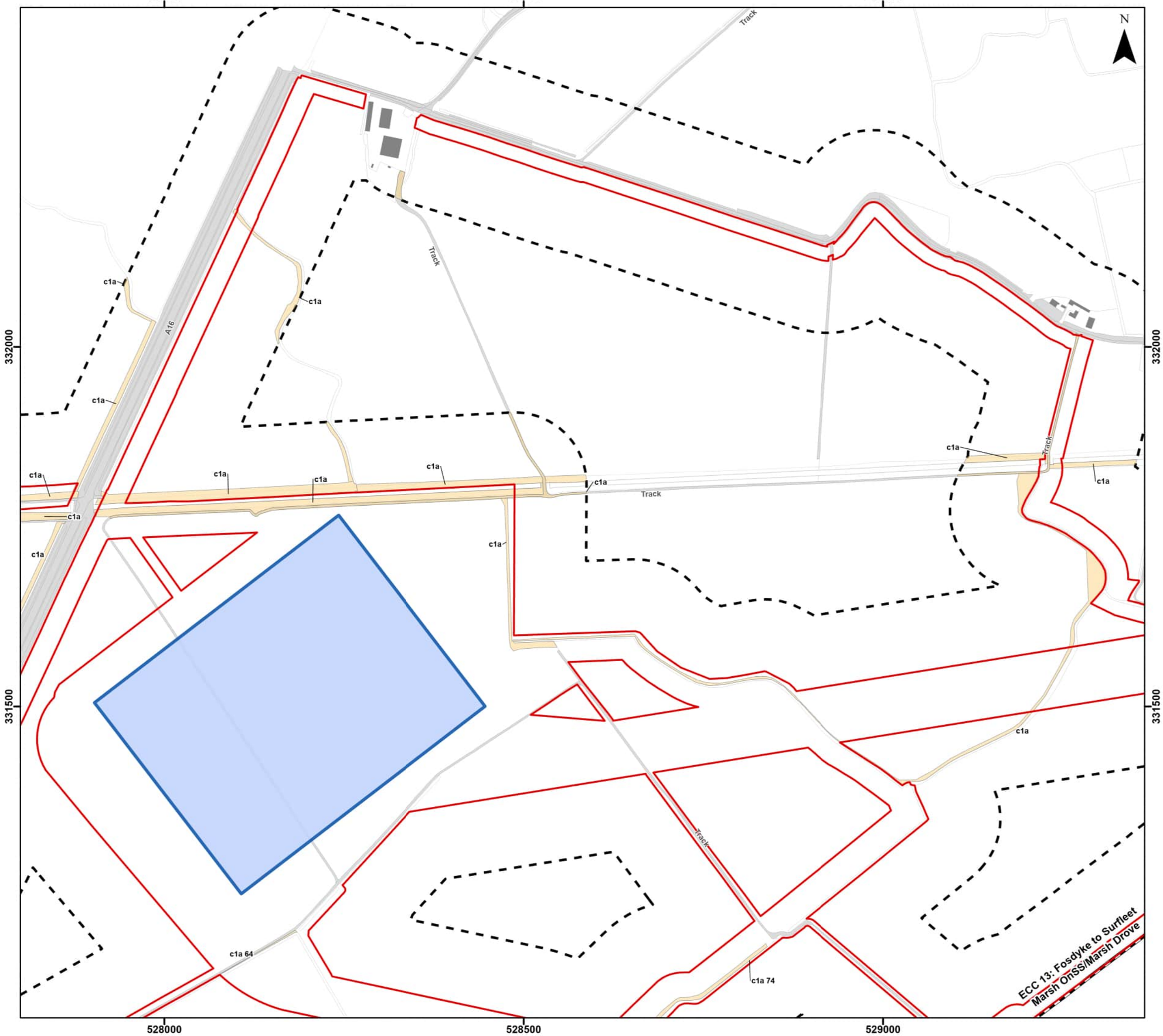
Important Habitats

Figure 21.2.2.47

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR



Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer
- Onshore Substation (OnSS) Footprint

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.48

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

527000
527500
528000
528500
332000
331500
331000
N
A16
GOSBERTON ROAD
GOSBERTON BANK
c1a
c1a 64
c1a 74
Coastal and floodplain grazing marsh
Coastal and floodplain grazing marsh

Legend

- Order Limits
- Order Limits 100 m Buffer
- Onshore Substation (OnSS) Footprint

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Natural England Priority Habitat

- Coastal and Floodplain Grazing Marsh

Sources:
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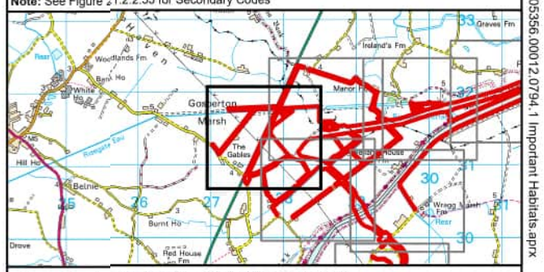
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.49

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

528000
528500
529000
331000
330500
330000
N
Track
c1a 74
c1a 64
c1a
c1a
c1a
c1a
c1a
c1a
c1a
Track
MARSH GROVE
SURFLEET BANK
SURFLEET BANK
GP
ECC 13: Fosdyke to Surfleet Marsh OnSS/Marsh Drove
ECC 14: Surfleet Marsh OnSS / Marsh Drove to Connection Area
Track
Mudflats
t2 30
Coastal saltmarsh
Coastal saltmarsh
r2b 30
131
Coastal saltmarsh
t2d 30
Mudflats
h2a
c1a 86

Legend

- Order Limits
- Onshore Segment Break
- Order Limits 100 m Buffer
- Onshore Substation (OnSS) Footprint

Priority Habitats Linear Features - UK Habitat Classification

Heathland and Shrub - Hedgerows

- h2a - Hedgerow (Priority Habitat)

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Marine Inlets and Transitional Waters - Littoral Sediment

- t2 - Littoral Sediment
- t2d - Intertidal Mudflats

Rivers and Lakes - Rivers and Streams

- r2b - Other Rivers and Streams

Natural England Priority Habitat

- Coastal Saltmarsh
- Mudflats

Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

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Environmental Statement

Important Habitats

Figure 21.2.2.50

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
Revision: 0.1

SLR

529000
529500
530000
331000
330500
330000
N
ECC 13: Fosdyke to Surfleet Marsh OnSS/Marsh Drove
ECC 14: Surfleet Marsh OnSS / Marsh Drove to Connection Area
c1a
Mudflats
t2 30
r2b 30 131
t2d 30
c1a 86
Track
Coastal saltmarsh
Mudflats
h2a
Weighbridge
WB
MARSH ROAD
Legend
Order Limits
Onshore Segment Break
Order Limits 100 m Buffer
Priority Habitats Linear Features - UK Habitat Classification
Heathland and Shrub - Hedgerows
h2a - Hedgerow (Priority Habitat)
Priority Habitats Area Features - UK Habitat Classification
Cropland - Arable and Horticulture
c1a - Arable Field Margins
Marine Inlets and Transitional Waters - Littoral Sediment
t2 - Littoral Sediment
t2d - Intertidal Mudflats
Rivers and Lakes - Rivers and Streams
r2b - Other Rivers and Streams
Natural England Priority Habitat
Coastal Saltmarsh
Mudflats
Sources:
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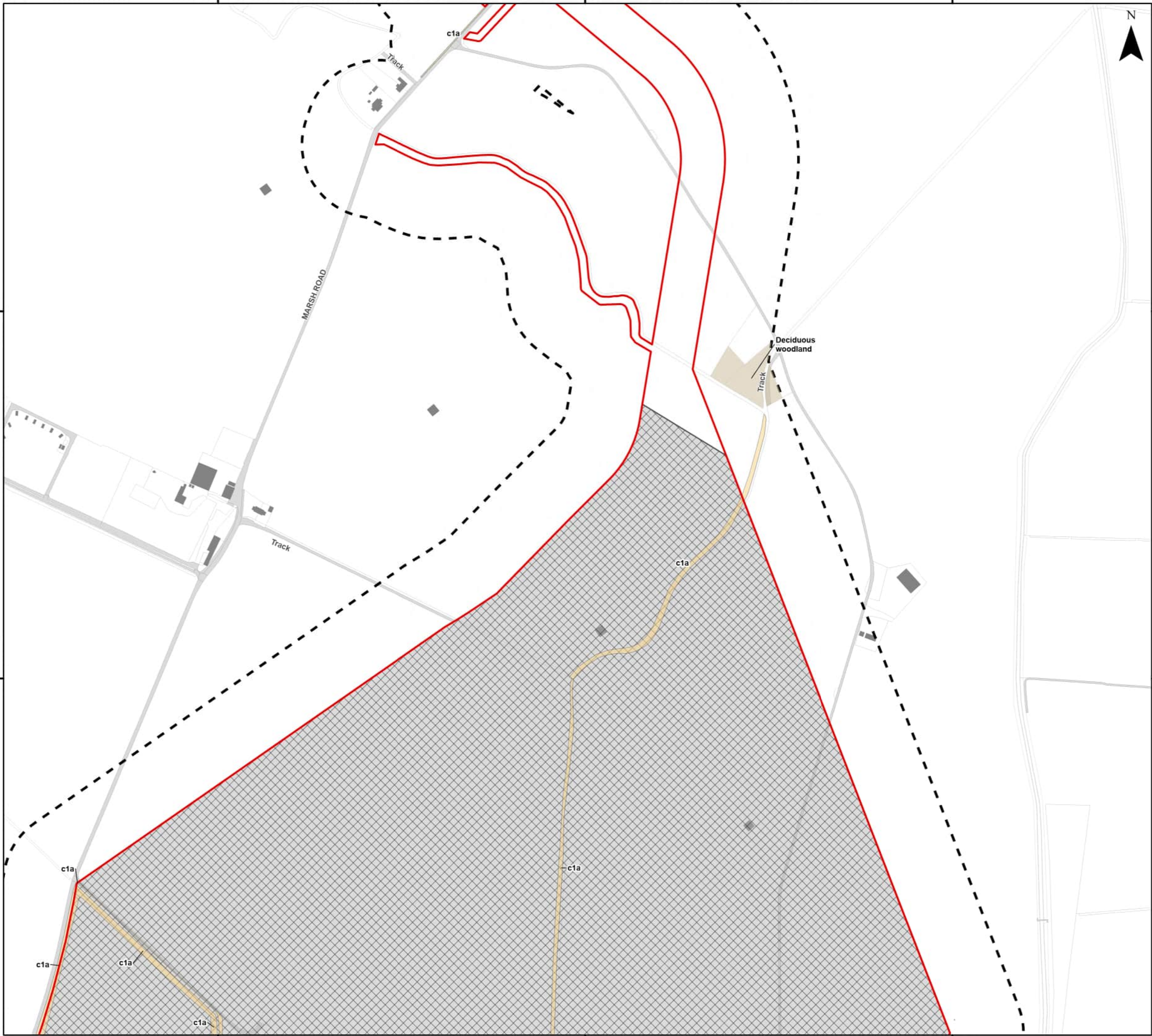
Note: See Figure 21.2.2.55 for Secondary Codes
Coordinate System: British National Grid
0 50 100 200 Metres
Scale: 1:5,000
A3 Page Size
Environmental Statement
Important Habitats
Figure 21.2.2.51
OUTER DOWSING OFFSHORE WIND
Date: 21/02/2024
Produced By: JCS
Revision: 0.1
SLR



Legend

Order Limits

Order Limits 100 m Buffer

Connection Area

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

c1a - Arable Field Margins

Natural England Priority Habitat

Deciduous Woodland

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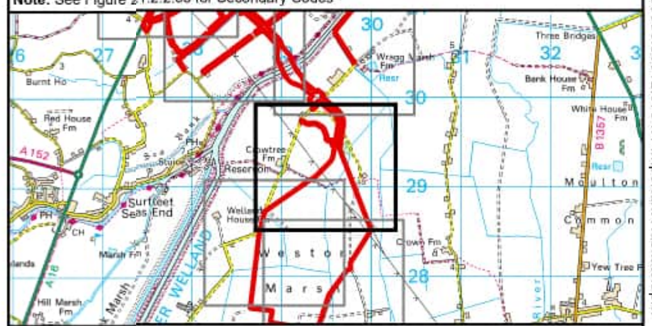
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

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Scale: 1:5,000

A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.52

Date: 21/02/2024
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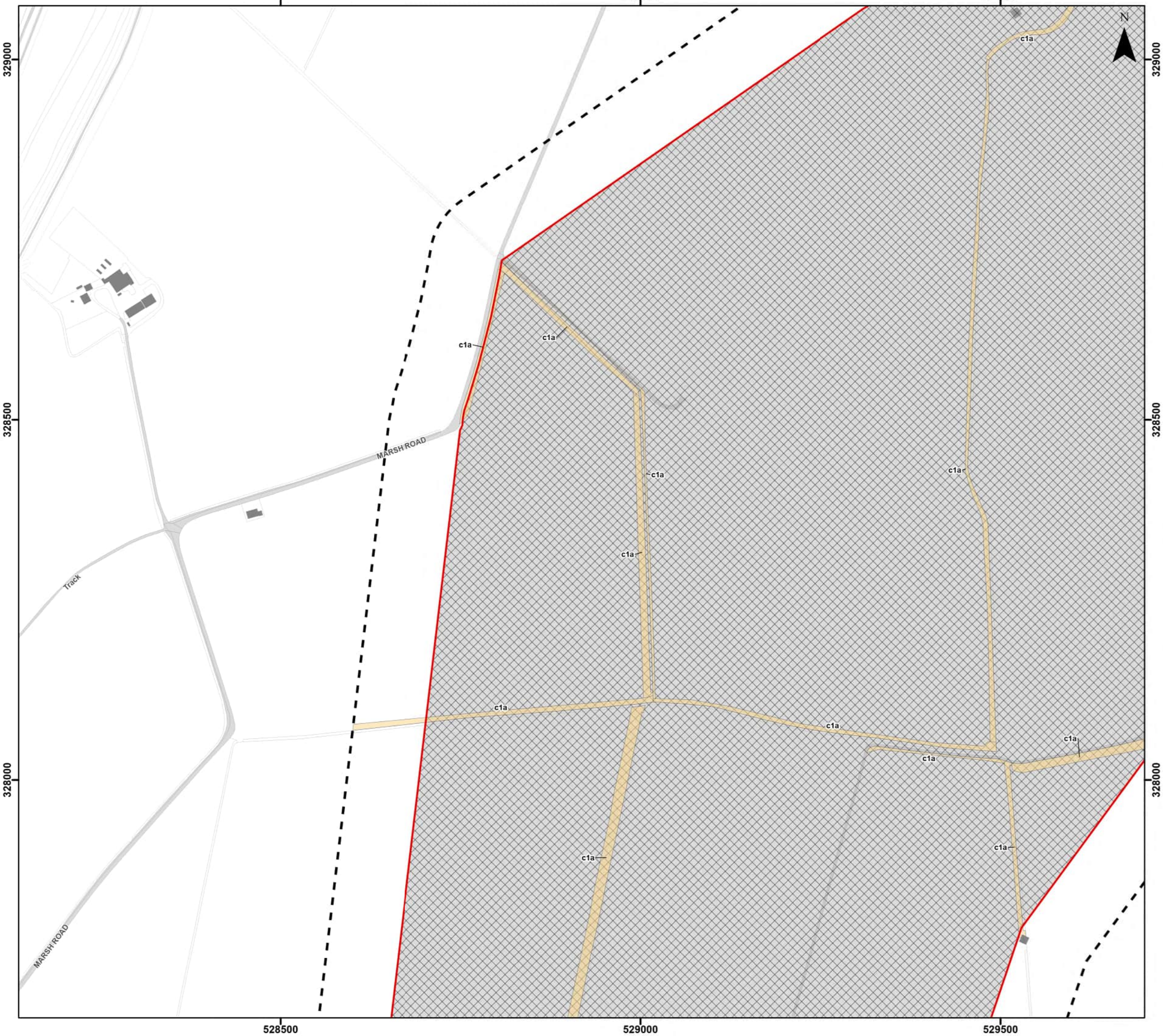
Document Path: P:\05356 - GoBe Consultants Ltd\00012 GTR4 Outer Dowsing\Tech\GIS\Dwgs\Wking\2023 09 Environmental Statement\Ecology\TA\UK Habitat\05356.00012.0794.1 Important Habitats.aprx



Legend

- Order Limits
- Order Limits 100 m Buffer
- Connection Area

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Sources:
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Note: See Figure 21.2.2.55 for Secondary Codes

Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.53

OUTER DOWSING OFFSHORE WIND

Date: 21/02/2024
Produced By: JCS
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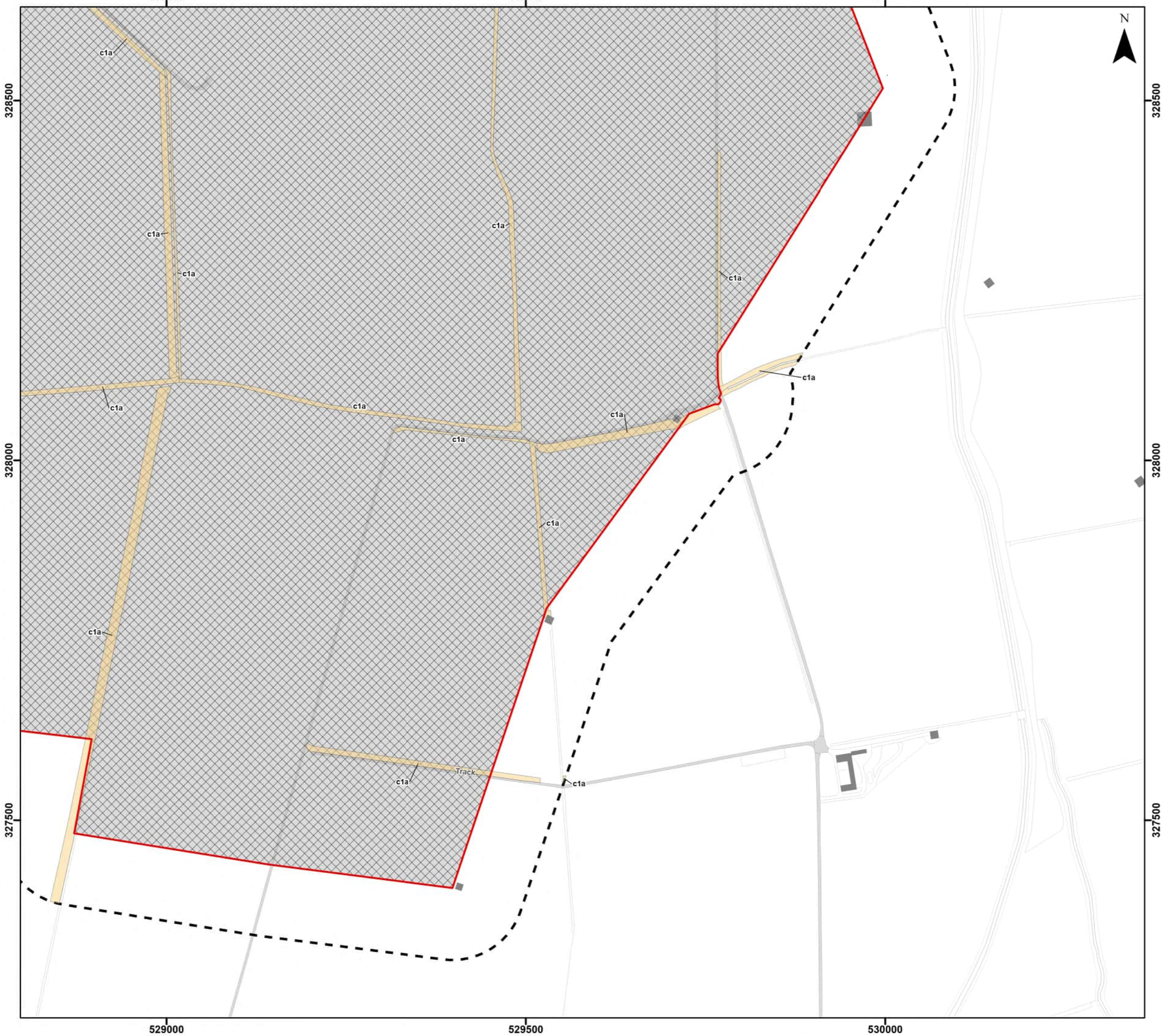

Legend

- Order Limits
- Order Limits 100 m Buffer
- Connection Area

Priority Habitats Area Features - UK Habitat Classification

Cropland - Arable and Horticulture

- c1a - Arable Field Margins

Sources:
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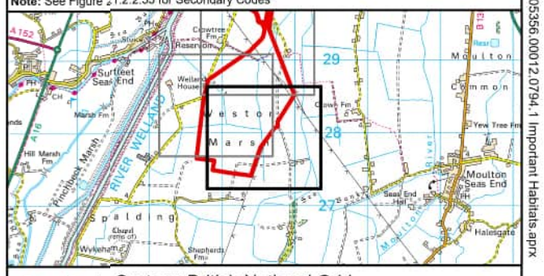
Note: See Figure 21.2.2.55 for Secondary Codes



Coordinate System: British National Grid

0 50 100 200 Metres

Scale: 1:5,000 A3 Page Size

Environmental Statement

Important Habitats

Figure 21.2.2.54

OUTER DOWSING OFFSHORE WIND

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Secondary Codes

10 Scattered scrub
11 Scattered trees
14 Scattered rushes
16 Tall herb
17 Ruderal/ ephemeral
19 Ponds (Priority Habitat)
25 Coastal and floodplain grazing marsh
30 Estuaries (H1130)
36 Plantation
39 Freshwater - man-made
41 Freshwater - natural
58 Grazed
64 Mown
74 Ploughed
75 Active Management
76 Recent Management
80 Unmanaged
86 Accessible natural greenspace
161 Tall or tussocky sward
190 Hedgerow with trees
191 Ditch
361 Natural lake or pond
362 Artificial lake or pond

Environmental Statement

Important Habitats

Figure 21.2.2.55

OUTER DOWSING OFFSHORE WIND

Date: 23/01/2024
Produced By: JCS
Revision: 0.1

SLR

21.2 Legislation

10. A framework of international, European, national, and local legislation and planning policy guidance exists to protect and conserve wildlife and habitats. A summary of the key legislation of relevance to this report is provided in Table 21.2 below and the full list of legislation is provided within the ES, Volume 1, Chapter 21 Onshore Ecology (document reference 6.1.21) under Section 21.2 Statutory and Policy Context.

Table 21.2: Legislation and Policy Context

Legislation/Policy	Key Provision of Relevance to this Report
Conservation of Habitats and Species Regulations 2017 (as amended)	The Habitats Regulations cover the requirements for protecting sites that are internationally important for threatened habitats and species and sets out a legal framework for species requiring strict protection, including the protection of certain plant species.
Wildlife and Countryside Act 1981 (as amended)	Protection of certain plant species protected under Schedule 8. Guidance on section 14 which prevents certain non-native plant species to grow or spread in the wild.
Natural Environment & Rural Communities (NERC) Act 2006	Section 41 of the Act requires the publication of a list of habitats and species which are of principal importance for the purpose of conserving biodiversity. The Section 41 list is used to guide authorities in implementing their duty to have regard to the conservation of biodiversity.
Hedgerow Regulations 1997	These regulations, enforced under the Environment Act 1995, restrict the removal of hedgerows deemed “important” hedgerows under ecological or historical criteria set out in the Regulations.
Invasive Alien Species (Enforcement and Permitting) Order 2019	These regulations, address the prevention and management of the introduction and spread of invasive alien species, of which includes 36 plant species.
National Planning Policy set out in the National Planning Policy Framework (NPPF) [10],	Policies relating to habitats and biodiversity set out in paragraphs 180 to 188. These policies are designed to protect biodiversity, reverse biodiversity loss, deliver positive effects from development and strengthen ecological networks.

21.3 Methodology

21.3.1 Desk Study

11. Records of important habitats and notable plants were requested from Greater Lincolnshire Nature Partnership (GLNP) for all land within the Order Limits, plus a 2km buffer. This information was used to provide context for surveys and further detail is provided within the ES.

12. The MAGIC website was searched for priority habitats within the Order Limits plus a 100m buffer from it.

13. Full details of the desk study are reported in Volume 3, Appendix 21.1 Onshore Ecology Desk Study (document reference 6.3.21.1).

21.3.2 Field Survey

14. The field survey comprised three main elements:

- mapping of habitats – habitats were mapped using the UK Habitat Classification v1.1 (Butcher, *et al*., 2020), as agreed at the scoping stage, to capture the presence of Section 41 and Annex 1 habitat types. The presence of notable or invasive non-native plant species was also recorded during the habitat survey;
- sufficient detail was gathered to determine if hedgerows that could be breached by the proposed development meet the definition of “important” under the Hedgerow Regulations (1997). Only a brief summary of the hedgerow results will be included within this report with full details provided in a separate hedgerow report (Volume 3, Appendix 21.3 Important Hedgerow Report (document reference 6.3.21.3).

15. In some instances, the methodology diverged from field survey elements listed above, predominantly where access was unavailable or limited to certain land parcels. Full details are provided in the Limitations Section 2.3.

21.3.2.1 2022 Initial Habitat Mapping

16. Initial identification and classification of areas of similar habitat (i.e., habitat polygons, linear features) was undertaken primarily via interpretation of aerial imagery in 2022, with additional ground-truthing of sample areas as reported in the PEIR (SLR Consulting, 2023b).

21.3.2.2 2022 – 2023 Habitat Mapping

17. Once more comprehensive access was gained to the survey area, each of the polygons identified from aerial interpretation was visited (where applicable to the survey area), and where necessary, remapped. Habitats were then classified in accordance with the UKHab Primary Hierarchy at the level most appropriate to the features being recorded. In general, all ecosystems have been identified to a Level 3 (Broad Habitat Type) habitat, with the majority of habitats being classified to Level 4 (further splits of Level 3 habitats inc. UK BAP Priority Habitats) or 5 (further splits of Level 4 habitats inc. Annex 1 habitats), where appropriate. Secondary Codes have been used to further describe habitats.

18. Additional secondary codes, photographs and notes were recorded for the majority of polygons; these have been retained in a Geographical Information System (GIS) data database and due to the amount of data are not present in this report, they can however be supplied upon request. The most relevant/pertinent data and habitat records and features are included here, in particular for habitats deemed to be important ecological features.

21.3.3 Hedgerow Assessment

19. The habitat survey included the mapping and assessment of hedgerows that could be breached by the onshore elements of the Project. Hedgerows were also assessed under Schedule 1 Part II (6) of the Hedgerow Regulations 1997 (i.e., for wildlife and landscape reasons rather than archaeological or historical reasons), to determine if they were “important” as per these regulations. Full details are provided in a separate hedgerow report (Volume3, Appendix 21.3 Important Hedgerow Survey (document reference 6.3.21.3).

21.4 Limitations

20. The optimal period for habitat survey is March – September, inclusive. Due to project timelines, a number of preliminary surveys, ground-truthing and additional information were collected outside of this core survey period. The dates of all surveys and their extent and purpose has been recorded in SLR's habitat survey database. In total, across the full range of habitats surveyed within the survey area, the timing of the field surveys is not considered to represent a significant limitation to the habitat data collected. Nonetheless, it should be noted that some plant species (including non-native invasive species) may have been missed if not evidenced at the time of the survey due to their seasonal nature; and in June 2023, prolonged periods of dry weather resulted in some of the water bodies; namely ditches, drying up.

21. However, the points above are not considered to be a significant limitation as it was still possible to identify the majority of plants and seasonality of waterbodies in order to assess the habitat types which were present.

22. Access permission was not available for some land parcels within the study area. In these cases, records were made from the perimeter of accessible areas (i.e., other land parcels or PRoW) and/or through aerial mapping to identify the types of habitats present or likely to be present in these areas. In some instances, access was granted but cattle were present, limiting and/or prohibiting access to certain land parcels. Therefore, as above, habitat data records were made in the same way as listed above for areas with no granted access.

23. Where access was unavailable and detailed survey information was unable to be gathered, data collection diverged slightly from the methodology in Section Field Survey 2.2. This meant that the classification of Primary Habitats in these areas were classified at a higher level; Level 1 (Major Ecosystem) or Level 2 (Ecosystem Types).

24. For land parcels where either access was unavailable, detailed survey was not possible due to the time of year, lack of site information (i.e., whether arable field margins were managed specifically to provide benefits for wildlife) or survey type, a precautionary approach to certain habitats was implemented to ensure that potential Habitats of Principal Importance (HPIs) were not overlooked. In these instances, the following habitats and the specific approach taken is detailed below:

- Arable Field Margins; herbaceous or grassland strips or blocks sited on the outer 2-12m margins of an arable field were recorded under this Primary Habitat. Occasionally subsets of arable margins (non-HPI habitats) were also recorded;
- Coastal and Floodplain Grazing Marsh (CFGM); a combination of ground-truthing where possible, interrogation of aerial photography and information from Natural England's Priority Habitat Inventory from the MAGIC website was used. Pasture or neutral grassland types that were periodically inundated and contained ditches that maintained continual water levels were included as CFGM;
- Ponds; apart from great crested newt surveys (*Triturus cristatus*), no additional biological and environmental data has been collected from the ponds in order to completely rule out meeting the HPI criteria. Therefore, all ponds apart from temporary water bodies were recorded as Priority Habitat.

25. Some additional variations to the UKHab methodology were also implemented based on the scope and extent of the survey area. The fine-scale Minimum Mapping Unit (MMU) of 25m^2, 5m length was not appropriate and instead, secondary codes were used to their full potential to identify specific features within the larger Primary Habitats. Lastly, the UKHab guidance includes the mapping of linear features greater than 1m wide as polygons. However, due to the scale of the project and to ensure alignment with the Biodiversity Net Gain (BNG) standards, these were mapped as lines and the canopies incorporated into the adjacent Primary Habitats. This means that there will be a slight increase in habitat area for some Primary Habitats which abut hedgerows or lines of trees.

26. It should also be noted that the percentage totals of habitat areas may not accurately total 100% of the Order Limits due to some insignificant gaps or overlaps along the route from the National Tree Map (NTM) data that was used for woodlands. The gaps may also have arisen from geometry simplification required before uploading the data to ArcGIS Online in order to reduce the file size for the outputs. This is not considered to be a constraint as these percentages are given to indicate the proportionality of habitat types across the survey area for context.

21.5 Determining Important Ecological Features

27. Ecological features can be important for a variety of reasons and the rationale used to identify them is explained below. Importance may relate, for example, to protected status, the quality or extent of the site or habitats therein; habitat and/or species rarity; the extent to which such habitats and/or species are threatened throughout their range, or to their rate of decline.

28. Important habitats are considered here to be those which:

- match descriptions of habitats listed on Annex 1 of the Habitats Directive, so far as it applies to the UK and as transposed by The Conservation of Habitats and Species Regulations 2017 (as amended);
- match descriptions of Habitats of Principal Importance (HPIs) for biodiversity under Section 41 of the Natural Environmental and Rural Communities (NERC) Act 2006;
- match Local Wildlife Site (LWS) Selection Criteria (GLNP, 2013);
- match descriptions of habitats with Habitat Action Plans (HAPs) contained within Local Biodiversity Action Plans (BAPs) (Lincolnshire Biodiversity Partnership, 2011);
- comprise irreplaceable habitats, such as (but not limited to) coastal sand dunes, ancient woodland, and veteran trees (Defra Land Use Policy Team, 2023 and Natural England, 2022); and/or;
- comprise a significant habitat resource for an important species.

21.6 Results

21.6.1 Desk Study

21.6.1.1 Habitats

29. The MAGIC website returned records of priority habitats within the Order Limits and 100m buffer. The habitats and locations are referenced in Table Table 21.3 below. There were no priority habitat records within ECC 9, and it is therefore excluded from Table 21.3.

Table 21.3: MAGIC Records of Priority Habitats within the Order Limits and/or 100m Buffer

Priority Habitat Type (from NE Habitat Inventory)	ECC Segment(s) (Survey Area)
Coastal Sand Dunes	1
Reedbed	1
Coastal and Floodplain Grazing Marsh	2, 3, 4, 5, 8, 11, 12, 13
Deciduous Woodland	5, 6, 7, 10, 11, 14
Mudflats	10, 11, 13, 14
Coastal Saltmarsh	10, 12, 13, 14

30. Although priority habitat deciduous woodland was recorded, no records of Ancient and Semi-Natural Woodland (ASNW) or Plantations on Ancient Woodland Sites (PAWS) within the Order Limits and 100m buffer were returned by the desk study.

31. One record of Long-established woodlands of plantation origin (LEPO), Friskney Decoy Wood, is present within the 100m buffer at ECC 6. Many LEPO sites have developed semi-natural characteristics and may be as rich as Ancient Woodland.

21.6.2 Field Survey

32. The main ecosystems within the survey area, as described using the Level 2 UKHab Classification terminology, are cropland, grassland, heathland and shrub, rivers and lakes, sparsely vegetated ground, woodland and forest, wetland, urban habitats and marine inlets and transitional waters. Approximately 82.4% of the total land area is covered by cropland, grassland accounts for almost 10%, with heathland and shrub,

rivers and lakes, sparsely vegetated ground, woodland and forest, wetland, urban habitats and marine inlets and transitional waters forming the remaining 7.5% percentage cover.

33. Habitat types within the survey area shown across Figures 21.2.1.1 – 21.2.1.53 (Habitat Plan), with primary and mandatory secondary UKHab codes stated. Important habitats (as defined in Section 3.2) are shown across Figures 21.2.2.1 – 21.2.2.55 (Important Habitats, including primary codes, mandatory secondary codes, plus additional secondary codes as appropriate).

34. General descriptions for the various habitats encountered, including illustrative photographs, are provided below along with reference to their distribution within the survey area. More detailed descriptions are provided for specific areas of Priority Habitat, where there was potential for Annex 1 habitat, locally important or rare species to occur. Data for all habitat polygons, including (in almost all cases) photographs and dominant/characteristic species are stored in a GIS database and can be made available upon request.

21.6.2.1 Cropland – Arable and Horticulture (c1)

35. The vast majority of the survey area surveyed is managed as arable agricultural land, predominantly cropland comprising cereal crops and non-cereal crops (Plate 21.1). In particular, Lincolnshire grows large amounts of barley, wheat, oilseed rape and sugar beet. Some arable fields recorded as ploughed or in winter stubble depending on the survey season. Cropland is present within each of the ECC 1 to ECC 14.

Plate 21.1: ECC 10 – A field of cereal crop, to the east of Haven River and Scalp Road, Fishtoft, Boston, Lincolnshire (Photograph taken June 2023)

36. Arable field margins (Plate 21.2) occur in numerous locations throughout the survey area and were recorded within each of the ECC 1 to ECC 14. These areas are usually sited on the outer 2-12m margins of an arable field, although they may also intersect it, and vary in vegetation structure between dominant tall ruderals and a mixture of grasses and herbaceous vegetation with intermittent scattered scrub and trees. Some areas may have been left as a buffer and/or specifically managed to increase its biodiversity and wildlife value and therefore could meet the criteria for Habitats of Principal Importance (HPI). Arable field margins which are not specifically managed for wildlife are like to have a lower plant species diversity, however they will still have value for ground-nesting birds and invertebrates. It was unknown at the time of writing as to whether any of the areas are part of an Environmental Stewardship Scheme or similar programme.

37. Species noted to occur within the arable field margins include, but are not limited to; false oat-grass (*Arrhenatherum elatius*), cock's-foot (*Dactylis glomerata*), *Bromus sp*., *Alopecurus sp*., tall fescue (*Festuca arundinacea*), meadow grasses (*Poa sp*.), red fescue (*Festuca rubra*), Timothy grass (*Phleum sp*.), Yorkshire fog (*Holcus lanatus*), perennial ryegrass (*Lolium perenne*), cow parsley (*Anthriscus sylvestris*), common

hogweed (*Heracleum sphondylium*), common knapweed (*Centaurea nigra*), creeping buttercup (*Ranunculus repens*), bulbous buttercup (*Ranunculus bulbosus*), common mouse-ear (*Cerastium fontanum*), scented mayweed (*Matricaria chamomilla*), red campion (*Silene dioica*), *Geranium sp.*, hedge mustard (*Sisymbrium officinale*), yarrow (*Achillea millefolium*), oxeye daisy (*Leucanthemum vulgare*), common vetch (*Vicia sativa*), meadow vetchling (*Lathyrus pratensis*), hedge woundwort (*Stachys sylvatica*), tansy (*Tanacetum vulgare*), rosebay willowherb (*Chamaenerion angustifolium*), docks (*Rumex sp*.), cleavers (*Galium aparine*), garlic mustard (*Alliaria petiolate*), bristly oxtongue (*Helminthotheca echioides*), yellow rattle (*Rhinanthus minor*), common nettle (*Urtica dioica*), horseradish (*Armoracia rusticana*), pineappleweed (*Matricaria discoidea*), white clover (*Trifolium repens*), ribwort plantain (*Plantago lanceolata*), greater plantain (*Plantago major*), shepherd's purse (*Capsella bursa-pastoris*), creeping thistle (*Cirsium arvense*), spear thistle (*Cirsium vulgare*), oilseed rape (*Brassica napus*), bracken (*Pteridium aquilinum*), hawthorn (*Crataegus monogyna*) and blackthorn (*Prunus spinosa).*

Plate 21.2: ECC 10 – Arable field margin between two fields, to the east of Grovefield Lane, Freiston, Boston, Lincolnshire (Photograph taken June 2023)

38. A single field was planted with a game bird mix within ECC 2. Depending on the type of species, cover mixes can provide seed for wild birds throughout the winter and spring which is often a time when food resource is scarce as opposed to areas sown with maize that are of a much lower value for wild birds.

21.6.2.2 Modified Grassland (g4)

39. Modified grassland (Plate 21.3) was recorded within ECC 1 to ECC 14. These areas include the provision of habitat and food for grazing livestock (Plate 21.4) including cows, sheep, horses and poultry, hay or silage production, amenity areas around fishing lakes, a putting green, go-cart track, farm and residential buildings and gardens, and along ditches, farm tracks and frequently mown road verges.

40. This grassland is typically dominated by a few species and in this instance notably; perennial ryegrass, false oat-grass, *Bromus sp., Poa sp.,* Yorkshire fog, creeping bent (*Agrostis stolonifera*),*Trifolium sp.,* alsike clover (*Trifolium hybridum*), creeping buttercup, red fescue, cock's-foot, common nettle, *Cirsium sp.,* cow parsley, common hogweed, oxeye daisy, common dandelion (*Taraxacum officinale*), broad-leaved dock, common

chickweed (*Stellaria media*), *Rumex sp.,* ribwort plantain, greater plantain, pineappleweed, black medick (*Medicago lupulina*), common ragwort (*Jacobaea vulgaris*), common daisy (*Bellis perennis*), meadow vetchling (*Lathyrus pratensis*), scented mayweed, garlic mustard, bristly oxtongue, prickly sow-thistle (*Sonchus asper*), hedge woundwort, common mugwort (*Artemisia vulgaris*), *geranium sp*., cleavers, common wheat (*Triticum aestivum*), and occasional bramble (*Rubus fruticosus*), hawthorn, dog rose (*Rosa canina*), and *Salix sp.*

Plate 21.3: ECC 5 – Modified grassland, to the east of Church Lane, Croft, Skegness, Lincolnshire (Photograph taken June 2023)

Plate 21.4: ECC 12 – Sheep Grazed modified grassland, south of Marsh Road, Kirton, Boston, Lincolnshire (Photograph taken March 2023)

41. Coastal floodplain grazing marsh (CFPGM) (Plate 21.5) is a HPI that can include modified grassland (UKHAB g4) where drainage ditches occur, and the grassland is periodically flooded or has a high-water table. Although typically botanically poor, flooded g4 grassland can represent important feeding areas for wintering wildfowl. CFPGM (g4) occurs occasionally within the survey area within ECC 1, ECC 5, ECC 6, ECC 11 and ECC 12 and consists of agriculturally improved, periodically flooded pasture with ditches, typically grazed by cattle. These areas are a mixture of short and long turf with occasional areas of tussocky grasses, some of which may provide potential bird nesting habitat. No unimproved CFPGM was recorded within the survey area.

42. The CFPGM (g4) areas above correspond with the CFPGM habitats recorded on MAGIC at ECC 5, ECC 11 and ECC 12.

43. Some of the CFPGM (g4 and g3) areas present within ECC 1 to the north of Sea Bank Clay Pits SSSI, form one of the three ‘target’ areas; Anderby/Huttoft (a small coastal strip

between Sutton on Sea and Chapel St. Leonards) for the Lincolnshire Coastal Grazing Marshes (LCGM) Project[1].

Plate 21.5: ECC 1 – Coastal Floodplain Grazing Marsh (g4) to the east of Roman Bank Road, Skegness, Lincolnshire (Photograph taken July 2023)

21.6.2.3 Neutral Grassland (g3)

44. Neutral grassland (Plate 21.6) was recorded within each of the ECC 1 to ECC 14. Some grassland was classified at a higher level (g); Level 1 (Major Ecosystem) due to access limitations, however, given the types of habitats recorded on site this is likely to be either neutral or modified grassland.

45. Fields of neutral grassland occur infrequently within the survey area with the remaining areas present in strips around field edges, hedgerows, woodland, watercourses, standing open water, farm and residential buildings and gardens, recreational sites (i.e., around putting greens, leisure parks) and along road verges.

[1] https://www.lincsmarshes.org.uk/assets/downloads/MASTER_LCAP_compressed.pdf

46. The neutral grassland within the survey area is mostly tussocky with scrub and infrequent rushes, sedges and reeds in the wetter areas. Typically, these areas are not particularly species-rich as they receive some “improvement” from drainage, fertilisers and other management, however, they are far richer than modified grassland such as pasture and leys. These areas are likely to be important for invertebrates and breeding and wintering birds.

47. Some of the grassland was classified as Arrhenatherum neutral grassland (g3c5) where false oat-grass was dominant in the sward which occurs occasionally within ECC 5 to ECC8.

48. Plant species recorded were very similar to the species composition listed for arable field margins. Additional species included; curled dock (*Rumex crispus*), white dead nettle (*Lamium album*), silverweed (*Argentina anserina*), common reed (*Phragmites australis*), common sow thistle (*Sonchus oleraceus*), nipplewort (*Lapsana communis*), common groundsel (*Senecio vulgaris*), red dead nettle (*Lamium purpureum*), hedge bindweed (*Calystegia sepium*), bittersweet (*Solanum dulcamara*), meadowsweet (*Filipendula ulmaria*), dove’s-foot cranesbill (*Geranium molle*), reed canary grass (*Phalaris arundinace*), red clover (*Trifolium pratense*), autumn hawkbit (*Scorzoneroides autumnalis*), bird’s-foot trefoil (*Lotus corniculatus*) and vetch sp.

Plate 21.6: ECC 5 – Neutral grassland, south of the Wainfleet Relief Channel and Weir Dike, Skegness, Lincolnshire (Photograph taken August 2023)

49. Coastal floodplain grazing marsh (CFPGM) (Plate 21.7) is a HPI that can include neutral grassland (UKHAB g3) where drainage ditches occur, and the grassland is periodically flooded or has a high-water table. CFPGM (g3) occurs occasionally within the survey area within ECC 1 to ECC 5 and ECC 11 and comprises periodically flooded pasture with ditches, typically grazed by cattle, similarly to the modified grassland habitat described above, although there is a higher species diversity.

Plate 21.7: ECC 2 – Coastal Floodplain Grazing Marsh (g3) to the west of Sloothby High Lane, Manor Farm, Hogsthorpe, East Lindsey, Lincolnshire (Photograph taken January 2023)

50. The CFPGM (g3) areas above correspond with the CFPGM habitats recorded on MAGIC at ECC 2 to ECC 5 and ECC 11.

51. Green Lanes are located within ECC 10 to the west of the Hobhole Drain and ECC 12 southeast of Thomson's Lane (Plate 21.8) and Craven's Lane. These habitats occur infrequently within the survey area and contain sheltered neutral grassland habitats, some of which have escaped improvement and retained semi-natural features. These areas are often far richer in wildlife then standalone hedgerows because of the shelter and protection that they provide.

Plate 21.8: ECC 12 – Green Lane between linear scrub, southeast of Thompson's Lane, Fosdyke, Boston, Lincolnshire (Photograph taken September 2023)

21.6.2.4 Woodland and Forest (w)

52. Woodland is relatively sparse within the survey area and was recorded within ECC 1 to ECC 14, comprising numerous small copses and narrow belts of woodland with occasional larger areas of broadleaved, mixed, plantation (including coniferous) and rarely occurring wet woodland. Priority habitat lowland mixed deciduous woodland and wet woodland is present in three locations. Of these, lowland mixed deciduous woodland is present in ECC 3 (approximately 350m^2, Figure 21.2.2.11) and ECC 6 (approximately 0.8ha, Figure 21.2.2.19) and a small area of wet woodland (approximately 58m^2, Figure 21.2.2.4) is present in ECC 1.

53. The largest areas of woodland within the survey area are described in Table 21.4 below.

Table 21.4: Main Woodlands within the Order Limits and 100m Buffer

Woodland Name	Location and ECC Segment	Description
Unnamed woodland	TF 51431 61083 ECC 5	Other lowland mixed deciduous woodland, secondary (w1f7 38)

Woodland Name	Location and ECC Segment	Description
	100m buffer	Species include field maple (*Acer campestre*), silver birch (*Betula pendula*), pedunculate oak (*Quercus robur*), dog rose (*Rosa canina*) and occasional hawthorn. Woodland management was evidenced by tree felling in several areas and stacks of log piles. Included in the MAGIC Priority Habitat Inventory - Deciduous Woodland (England).
Unnamed woodland	TF 50382 60600 ECC 5 100m buffer	Broad-leaved mixed and yew woodland, plantation, and secondary woodland (w1 36 38) Not fully accessible. From aerial mapping going back to 2002, trees planted in rows can clearly be seen in the northern section with older secondary woodland in the south. From observations around the perimeter the woodland was predominantly broadleaved, interspersed with occasional coniferous trees and up to four native tree and shrub species were identified.
Unnamed woodland	TF 48411 59170 ECC 5 100m buffer	Broad-leaved mixed and yew woodland, secondary woodland (w1 36) Within a private residence and therefore not accessible. From aerial mapping going back to 2002, it appears that trees have been planted around the pond and hedgerow boundary in the north, some of this looks to be overgrown and the canopy touches a coniferous line of trees along the eastern boundary.
Unnamed woodland	TF 48460 58830 ECC 6 100m buffer	Other broadleaved woodland types, plantation (w1g7 36) The middle section of woodland was planted earlier, and the perimeter was planted later with two distinct age classes apparent. It lacks understorey woody vegetation with sparse grasses and mosses forming the ground cover. Species include Cherry (*Prunus sp*.), hawthorn, silver birch, oak, ash (*Fraxinus excelsior*), lacks understorey.
Unnamed woodland	TF 47910 58450 ECC 6 100m buffer	Other broadleaved woodland types, plantation (w1g7 36) A relatively uniform planted woodland with one distinct age class, woody understorey species are absent and ground cover is limited. Species include ash, field maple, holly, hazel, oak, hawthorn, silver birch, and *prunus sp.*
Unnamed woodland	TF 47570 58590 ECC6 100m buffer	Other broadleaved woodland types, plantation (w1g7 36) A relatively uniform planted woodland. Species include, pedunculate oak, silver birch, ash, guelder rose (*Viburnum opulus*), dogwood, cherry (*Prunus sp.*) and holly (*Ilex aquifolium*).
Friskney Decoy Wood	TF 46450 57100 ECC 6	Other woodland; mixed; mainly broadleaved, plantation, secondary woodland (w1h5 36 38)

Woodland Name	Location and ECC Segment	Description
	100m buffer	Managed by the Lincolnshire Wildlife Trust which describe it as a woodland and relict decoy pond and pipes, which fell out of use in 1878. Some woodland has grown naturally but most of the trees have been planted. This falls into the category of Long-established woodlands of plantation origin (LEPO), Species mostly consisting of silver birch, sycamore (*Acer pseudoplatanus*), Scots pine (*Pinus sylvestris*), with rowan (*Sorbus aucuparia*), alder (*Alnus glutinosa*), *Salix sp.*, aspen (*Populus tremula*), larch (*Larix decidua*), spruce (*Picea abies*), Corsican pine (*Pinus nigra*). Ground flora included bluebell (*Hyacinthoides non-scripta*) and snowdrop (*Galanthus nivalis*) were also recorded. Included in the MAGIC Priority Habitat Inventory - Deciduous Woodland (England).
Unnamed woodland	TF 45110 55550 ECC 7 100m buffer	Broad-leaved mixed and yew woodland, plantation, and secondary woodland (w1 36 38) Within a private residence and therefore not accessible. From aerial mapping going back to 2006, trees planted in rows can be clearly seen across much of the area, with older, semi-natural secondary woodland along the perimeter. Included in the MAGIC Priority Habitat Inventory - Deciduous Woodland (England).
Unnamed woodland	TF 40650 51400 ECC 8 100m buffer	Other woodland; mixed; mainly conifer, plantation (w1h6 36) Trees planted in distinct rows with two age classes. Species include Scots pine, oak, elder (*Sambucus nigra*).
Unnamed woodland	TF 38990 50160 ECC 8 100m buffer	Broad-leaved mixed and yew woodland, plantation, and secondary woodland (w1 36 38) Within a private residence and therefore not accessible. From aerial mapping going back to 1999, it appears to be a combination of planted trees and successional scrub to secondary woodland.
Unnamed woodland	TF 36620 41210 ECC 10 Order Limits and 100m buffer	Other woodland mixed, secondary woodland (w1 38) A mixture of trees and successional scrub just tall enough to be categorised as woodland (>5m height) along the western bank of the Hobhole Drain. The scrub layer was dense and impenetrable in places therefore a full species list was not possible. Species include hawthorn, blackthorn, elder, dog rose and bramble. Included in the MAGIC Priority Habitat Inventory - Deciduous Woodland (England).
Unnamed woodland within	TF 36060 40280 ECC 10	Other broadleaved woodland types, planted (w1g7 36)

Woodland Name	Location and ECC Segment	Description
Havenside Local Nature Reserve (LNR)	100m buffer	Although not planted in succinct rows, the age and distance between the trees suggest it was predominantly planted with some occasional natural regeneration. Species include oak, ash and hawthorn.
Unnamed woodland	TF 32550 33030 ECC 12 Order Limits and 100m buffer	A belt of broadleaved trees (w1) and scrub (h3), 1,250m long running approximately NE-SW along an historic bank and ditch feature (visible on OS One Inch 1885 – 1900[2]).
Unnamed woodland	TF 29066 32176 ECC 13 100m buffer	A small triangular area of woodland, broad-leaved mixed yew woodland, plantation (w1 36). Not accessible. From aerial mapping going back 2004, distinct rows are visible.
Unnamed woodland	TF 29710 29410 ECC 14 100m buffer	Broad-leaved mixed and yew woodland, secondary woodland (w1 38) Not accessible. From aerial mapping going back to 1999, no distinct rows of trees are apparent and therefore, a precautionary secondary woodland code has been applied. Perimeter hedgerows on two sides are also present. Going back further in the mapping records to 1888-1913 there is an ancient pond, which does not appear to be present today and replaced with waste/derelict ground (u1) (National Library of Scotland Website). Included in the MAGIC Priority Habitat Inventory - Deciduous Woodland (England).

21.6.2.5 Line of Trees (w1)

54. Lines of trees occur occasionally within the survey area within ECC 1, ECC 3, ECC 5 to ECC7 and ECC 9 to ECC 13 (Plate 21.9 and Plate 21.10). Lines of trees include both native and non-native tree species, some of which have been planted and others form associations with defunct sections of hedgerow where the hedgerow has been damaged, leaving behind trees *in situ*. Some of the trees that are mature or approaching maturity within the line of trees may represent a higher biological interest than the younger tree resource.

55. Species recorded include; ash, silver birch, willow sp. (*Salix* sp.), cherry (*Prunus* sp.), Leyland cypress (*Cupressus x leylandii*), pine sp. (*Pinus sp.*), magnolia sp.

(*Magnoliaceae* sp.), elder, lime sp. (*Tilia* sp.), elm sp. (*Ulmus* sp.), hawthorn, blackthorn, sycamore, beech (*Fagus sylvatica*), and pedunculate oak.

Plate 21.9: ECC 5 – Line of young trees, east of Church Lane, Skegness, Lincolnshire (Photograph taken September 2023)

Plate 21.10: ECC 5 – Line of non-native ornamental trees within the garden of a private residence, east of Croft Lane, Skegness, Lincolnshire (Photograph taken June 2023)

21.6.2.6 Hedgerows (h2)

56. Hedgerows are present across the survey area within all ECC 1 to ECC 14 and commonly classified as Priority Habitat (h2a). Most are nevertheless species-poor with the majority of these being dominated by hawthorn. Other woody species found within species-poor hedgerows were elder, dog rose, blackthorn, oak sp. (*Quercus* sp.), pedunculate oak, ash, privet (*Ligustrum sp*.), field maple, hazel, alder, silver birch, cherry (Prunus sp.), rose (*Rosa* sp.), and willow sp. (*Salix sp.*).

57. Three hedgerows; 546, 1926 (Plate 21.11) and 1928 were assessed as “important” according to the ecological requirements of the Hedgerow Regulations 1997 (using a precautionary approach) and these were located in ECC 5, ECC 7 and ECC 12.

Plate 21.11: ECC 7 – “Important Hedgerow” 1926, east of Small End Road, Friskney, Boston, Lincolnshire (Photograph taken March 2023)

21.6.2.7 Scrub (h3)

58. Although scrub is widespread across the site and occurs across each ECC 1 to ECC 14, its footprint is relatively small. In this instance scrub generally occurs in small patches within grassland habitats, at the interface between grassland and arable fields and along

the banks of watercourses and standing water. The primary scrub habitats that occur include; mixed scrub (h3h), blackthorn (h3a), hawthorn (h3f), bramble (h3d) and sea buckthorn (h3c).

59. The largest areas within the survey area include sea buckthorn within ECC 1 within the Landfall area, patches of neglected arable grassland reverting into mixed scrub within ECC 4 east of Middlemarsh Road and ECC 6 south of Scaldgate Road, hawthorn scrub to the east of Wyberton Roads within ECC 12 and hawthorn and mixed scrub to the southeast of Thompson's Lane (Plate 0-8) and Craven's Lane also within ECC 12 and hawthorn scrub to the east of Smeeton's Lane within ECC 13 (Plate 21.12). No large areas of bramble scrub were recorded.

Plate 21.12: ECC 13 – Scrub east of Smeeton's Lane, Boston, Lincolnshire (Photograph taken May 2023)

60. The large areas of scrub particularly within ECC 12 and 13 are likely to succeed into woodland within 5-10 years with much of the canopy closing, becoming thicker, and loss of ground flora in these areas.

61. Sea buckthorn scrub (h3c) (Plate 21.13) was identified within ECC 1. Sea Buckthorn scrub is considered to be native on eastern coastal dunes from East Sussex and northward to Dunbar, however, in other locations it has been planted as a sea defence via dune stabilisation[3]. The area of sea buckthorn within the survey area is likely to have been planted. Although this is the case, the EU Habitats Directive identifies sea buckthorn scrub as a mosaic component in dune systems, however, it can become invasive and degrade species-rich dune grassland. In this context, this habitat was not considered likely to meet the dunes with sea buckthorn (h3c5) (H2160) Annex 1 habitat status.

Plate 21.13: ECC 1 – view of dense sea buckthorn and occasional mixed scrub, near Roundhouse, Roman Bank, Anderby Creek, East Lindsey, looking southeast, Lincolnshire (Photograph taken September 2023)

21.6.2.8 Standing Open Water (r1)

Ponds (r1a) were identified within ECC 1 to ECC 4, ECC 6 to ECC 8, ECC 10, ECC 12 and ECC 13. These include natural (41) ponds such as seasonally flooded depressions within CFPGM, waterbodies dominated with reedbed, and woodland ponds (Plate 21.14) and

[3] https://lincolnshire.moderngov.co.uk/documents/s28346/Appendix%20B.pdf

artificially man-made (39) ponds such as garden ponds, fishing ponds or lakes (Plate 21.15), duck ponds, lined arable farm pond, and temporary water bodies (162) (Plate 21.16) in heavily grazed grassland prone to frequently drying out.

Plate 21.14: ECC 1 – Natural woodland pond (Pond 19) north of Lowgate Road, Skegness, Lincolnshire (Photograph taken January 2023)

Plate 21.15: ECC 3 – Man-made fishing pond (Pond 39) north of Younger's Lane, Burgh le Marsh, Skegness, Lincolnshire (Photograph taken September 2022)

Plate 21.16: ECC 1 – Location of temporary water body (Pond 9), east of Roman Bank, Anderby Creek, Lincolnshire (Photograph taken September 2022)

62. Most of the ponds within the survey area are likely to meet the Section 7 definition by supporting Section 41 or Red Data Book Species including plant and invertebrate communities although no specific surveys have been conducted with the exception of great crested newt (*Triturus cristatus*). Temporary water bodies within arable fields may be too ephemeral in nature to support such species and are therefore not likely to meet the criteria particularly with regards to qualifying plant species. Due to the agricultural landscape surrounding many of the ponds, the ponds are likely to be vulnerable with regards to nutrient enrichment from agricultural run-off, drainage, and other farming practices and as such may be less species-diverse as a result.

21.6.2.9 Rivers, Streams and Ditches (r2)

63. The survey area includes a network of arable drainage ditches (Plate 21.17) across ECC 1 to ECC 14, which are predominantly < 5m wide (denoted with secondary code 191 - ditches) with occasional larger ditches and historical drains > 5m wide (Plate 21.18) some of which are connected to the river catchments.

Plate 21.17: ECC 3 – Typical ditch habitat within the survey area, south of Younger's Lane, Burgh le Marsh, Skegness, Lincolnshire (Photograph taken June 2023)

Plate 21.18: ECC 11 – Historical Hobhole drain, Fishtoft, Boston, Lincolnshire (Photograph taken June 2023)

64. Other water courses include a section of the old course of the River Lymn which intersects ECC 5 adjacent to Croft Lane where it leaves the straight channel of the Steeping River and joins the Wainfleet Relief Channel. Further south the survey area passes through a section of the Wainfleet Relief Channel and the channel known as the Wainfleet Haven also located within ECC 5.

65. Sections of two tidal rivers (r2b 131); The Haven (Boston) and the River Welland (Fosdyke Bridge) (Plate 21.19) which flow into The Wash and are located within ECC 10 to ECC 12 and ECC 14. As these rivers are associated with The Wash estuary, the Annex 1 secondary code 30 for Estuaries (H1130) has been assigned for these river sections along with associated river bank habitats including mudflats (t2d) and saltmarsh (t2a) which are covered in more detail under Marine Inlets and Transitional Waters (t) Section 23.2.12.

Plate 21.19: ECC 11 and ECC 12 – View across the River Welland, Fosdyke, Boston Lincolnshire (Photograph taken August 2023)

66. Rivers have been assigned the UKHab classification “Other Rivers and Streams” (r2b), as no targeted river surveys have been completed to determine whether they might meet the HPI criteria for priority rivers (r2a) which is based on naturalness criteria (physical, hydrological, chemical, and biological). Rivers which have been significantly modified or degraded over time are unlikely to meet priority habitat status. In particular the section of Haven within survey area has had some riverbank modification through artificial management including shoring up the banks with ballast.

21.6.2.10 Wetland (f)

67. An area immediately southeast of the Fosdyke Bridge (A17) crossing of the River Welland was classified at a higher habitat level (Level 1) due to lack of access; wetland (f). This area make contain elements of priority habitats such as reedbeds, coastal saltmarsh and mudflats based on contextual information available for the surrounding habitats.

68. Reedbed (f2e) was identified within ECC 1, ECC 3 to ECC 5, and ECC 9, although it is likely that reedbed occurs occasionally throughout survey area, however, it was below the mappable units for the size of the project and are therefore may not be fully represented on the mapping output. For the same reason, aquatic marginal vegetation

(f2d) is likely also to be present in the same habitat types as reedbed but has not been represented on the mapping due to the small scale of this habitat.

69. The largest expanses of reedbed are within ECC 1 at the Landfall area (Plate 21.20). The remainder occurs within ditches (Plate 21.21), drains, along riverbanks and the perimeter of standing water bodies within the survey area.

Plate 21.20: ECC 1 – Reedbed covering Pond 11 to the east of Roman Bank Road, Anderby Creek, Lincolnshire (Photograph taken September 2022)

Plate 21.21: ECC 1 – Reedbed along a ditch to the east of Ember Lane, Langham, Mumby, Alford, Lincolnshire (Photograph taken January 2023)

70. Marine Inlets and Transitional Waters (t) Coastal saltmarsh (t2a) (Plate 21.22) was identified within ECC 10, ECC 12 and ECC 13 along the banks of tidal rivers; The Haven, Boston and the River Welland where in a few locations, mudflats have graded into saltmarsh.

Plate 21.22: ECC 1 – An area of saltmarsh along the River Haven, Fishtoft, Boston, Lincolnshire (Photograph taken June 2023)

71. Intertidal mudflats (t2d) was identified within ECC 10 to ECC14 along the banks of tidal rivers; The Haven, Boston (Plate 21.23) and The River Welland.

Plate 21.23: ECC 1 – Coastal mudflats either side of the River Haven, Fishtoft, Boston, Lincolnshire (Photograph taken January 2023)

72. Due to safety considerations at the riverbanks only a brief list of plant species was recorded as these locations. Species included water-plantain (*Alisma plantago-aquatica* sea-plantain (*Plantago maritima*), spurrey sp. (*Spergularia* sp.), common salt-marsh grass (*Puccinellia maritima*), seablite sp., goosefoot sp., marram grass, sea purslane (*Atriplex portulacoides*), couch sp., tall fescue, cock's-foot, sea aster (*Aster tripolium*), knapweed sp., reed sp. and thistle sp.

73. Sandy beach (t2h) (Plate 21.24) was identified within ECC 1 at landfall. This is predominantly a tourist beach as opposed to a more natural beach which is evident from the suppression or lack of native vegetation at this location.

Plate 21.24: ECC 1 – Typical view of the beach from near Roman Bank, Anderby Creek, East Lindsey, Lincolnshire (Photograph taken May 2022)

21.6.2.11Supralittoral Sediment (s3)

74. Embryonic shifting dunes (s3a5, (H2110)) was identified within ECC 1 (Plate 21.25) at the intersection between beach (t2h) and sea buckthorn scrub (h3c) and typical species recorded were couch sp. (*Elymus sp.*), marram grass (*Ammophila arenaria*) and lyme grass (*Leymus arenarius*). Coastal sand dunes (s3a) were not mapped in this instance as they are predominantly “fixed” and covered by swathes of dense sea buckthorn before grading into mixed scrub within the survey area and therefore preventing establishment by coarse maritime grasses which are characteristic of this habitat. There are likely to be some areas of s3a habitat interspersed within the sea buckthorn scrub, but this area was not fully accessible.

Plate 21.25: ECC 1 – View of scrub, sand dunes and beach from near Roundhouse, Roman Bank, Anderby Creek, East Lindsey, looking southeast, Lincolnshire (Photograph taken May 2022)

21.6.2.12 Urban (u1)

75. Urban areas and buildings within the survey area include (but are not limited to) small settlements, sheds, garages, greenhouse, caravan, containers, agricultural buildings (i.e., barns), warehouses, horse stables, retail buildings, pump house and a factory. These constitute a very small proportion of the surveyed area, and the majority were not subject to detailed survey, except where impacts from the cable installation were considered likely to present a disturbance impact with regards to bats. Detailed survey was concentrated on buildings within ECC 8, and further details are provided within the bat report (Volume 3, Appendix 21.4 Bat Report (document reference 6.3.21.9)).

21.6.3 Plant Species

21.6.3.1 Notable Plant Species

76. Whilst detailed surveys for specific plant species have not been undertaken, a small range of notable plant species has been recorded within the survey area during the field survey. The species are associated with cropland, neutral grassland, rivers and streams, scrub and woodland habitats and specific records are shown in Table 21.5

Table 21.5: Notable Plant Species

Species	Habitat	Location and ECC Segment	Status
Bluebell (*Hyacinthoides non-scripta*)	Woodland	TF 46450 57100 ECC 6 100m buffer	Schedule 8 of the Wildlife and Countryside Act (1981) as amended
Sea-buckthorn (*Hippophae rhamnoides*)	Scrub	TF 55400 75500 ECC 1 Order Limits	Nationally Scarce (NS) (not based on IUCN criteria), although planted
Common knapweed (*Centaurea nigra*)	Cropland	TF 47671 58400 TF 44709 55245 TF 44793 54814 TF 52288 65011 TF 45388 55607 TF 45300 55500 TF 44468 54235 ECC 3, 6, 7 and 8 Order Limits and 100 buffer	LWS criteria species for neutral grassland & calcareous grassland
Crested Dog's-tail (*Cynosurus cristatus*)	Cropland	TF 47671 58400 ECC 6 Order Limits	LWS criteria species for neutral grassland
Pignut (*Conopodium majus*)	Neutral grassland	TF 31500 32200 ECC 13 100m buffer	LWS criteria species for neutral grassland & heathland and acid grassland
Meadowsweet (*Filipendula ulmaria*)	Rivers and steams	TF 52902 72591 ECC 1 100m buffer	LWS criteria species for neutral grassland
Yellow rattle (*Rhinanthus minor*)	Cropland	TF 52293 65111 ECC 3 100m buffer	LWS criteria species for neutral grassland
Bulbous buttercup (*Ranunculus bulbosus*)	Cropland	TF 52293 65111 ECC 3 100m buffer	LWS criteria species for neutral grassland & calcareous grassland
Meadow foxtail (*Alopecurus pratensis*)	Cropland	TF 52695 65633 TF 52700 65788 TF 52300 65000 TF 52400 64900	LWS criteria species for neutral grassland

Species	Habitat	Location and ECC Segment	Status
		TF 52305 64534 TF 52301 64581 ECC 3 100m	
Smooth meadow-grass (*Poa pratensis*)	Neutral grassland	TF 48845 60096 TF 48921 60075 ECC 5 Order Limits	LWS criteria species for neutral grassland

21.6.3.2 Invasive Non-native Plant Species

77. No non-native invasive species (INNS) were recorded during the habitat survey, although it is possible that specimens of INNS may be present in areas which were not accessible during the survey or were not apparent due to the timings of some of the survey visits.

21.6.4 Important Ecological Features

21.6.4.1 Habitats

78. Whilst the majority of the survey area comprises agricultural cropland used for growing cereal and non-cereal crops and which is of limited ecological importance, the following Habitats of Principal Importance (i.e., those included under Section 41 of Natural Environment and Rural Communities (NERC) Act 2006) and habitats listed on Annex 1 of the Habitats Directive are confirmed to be present with the survey area and are shown on Figures 21.2.2.1 – 21.2.2.55. In all cases the reference definition for each habitat type has been taken from UK BAP Priority Habitat Descriptions which are provided at Annex A.

- Arable field margins (c1a and c1a5)– This habitat was identified within all ECC 1 to ECC 14, and some may have been managed to specifically provide benefit to wildlife. It is possible this habitat may be lost from its current locations, and/or be found in new locations in the future, depending on agricultural management practices;
- Other neutral grassland and modified grassland, coastal and floodplain grazing marsh (g3c UKHab secondary code 25 and g4 UKHab secondary code 25) –

Coastal and floodplain grazing marsh was identified within ECC 1 to ECC 6, ECC 11 and ECC 12. It is possible this habitat may be lost from its current locations and/or range expanded, depending on agricultural management practices and/or restoration projects;

- None of the woodland within the Survey Area is listed as ancient woodland (ASNW and/or PAWs), in the Ancient Woodland Inventory. However, there is one LEPO; Friskney Decoy Wood, present within the survey area at ECC 6 which may be as rich as Ancient Woodland. Three priority woodland habitats were identified; two areas of lowland mixed deciduous woodland in ECC 3 and ECC 6 and one area of wet woodland within ECC 1.
- Hedgerows (h2a) – most of the hedgerows within the survey meet the S41 definition. This habitat was identified within ECC 1 to ECC 14. Three hedgerows were assessed as “important” according to the ecological requirements of the Hedgerow Regulations 1997 (using a precautionary approach) and these were located in ECC 5, ECC 7 and ECC 12;
- Sea buckthorn scrub (h3c) – This habitat was identified within ECC 1. Although the sea buckthorn in this location is likely to have been introduced to encourage dune stabilisation, some areas may meet the Annex 1 habitat definition (h3c5 Dunes with sea buckthorn (H2160)) in less dense areas;
- Eutrophic standing waters, Ponds (r1a, UKHab secondary code 19) – Ponds, for the purpose of the priority habitat classification, ponds are defined as permanent and seasonal standing water bodies up to 1 ha in extent which meet one or more criteria pertaining to notable or protected species. Most ponds in the area are likely to meet the Section 7 definition by supporting Section 41 or Red Data Book Species; all ponds are shown on Figure 21.7.2 and are concluded to be important ecological features apart from temporary pools within on arable fields. Some of the reed beds have also been classified with the priority UKHab secondary code 19. This habitat was identified within ECC 1 to ECC 4, ECC 6 to ECC 8, ECC 10, ECC 12 and ECC 13;
- Rivers (r2b) – The Wainfleet Haven, The Haven (Boston) and The River Welland within the site are considered likely to meet the definition by virtue of supporting other protected and/or Section 41 (S41) species rather than for habitat type/quality *per se*. The remaining water courses within the survey area are not considered to meet the definition, but if S41 or protected species are later found

to use them then this report will be updated accordingly. This habitat was identified within ECC 5, ECC 10-12 and ECC 14;

- Estuaries ((H1130) UK Hab secondary code 30)) – This habitat was assigned to the tidal river sections; The Haven (Boston) and The River Welland and their associated habitats; coastal saltmarsh and intertidal mudflats within ECC 10 to ECC 14;
- Reedbeds (f2e) – This habitat occurs in limited locations within the ditch/drain network and are considered to meet the S41 definition. This habitat was identified within ECC 1, ECC 3 to ECC 5 and ECC 9. It's likely that further reedbed habitats are present within watercourse or pond edge habitats but were below mappable units for the size of the project;
- Coastal saltmarsh (t2a) - This habitat was identified within ECC 10, ECC 12 and ECC 13;
- Intertidal mudflat (t2d)- This habitat was identified within ECC 10 to ECC 14; and
- Embryonic shifting dunes (s3a5, (H2110)) - This habitat was identified within ECC 1.

79. Some of the habitats within the Order Limits and or 100m buffer are part of, or assist towards, Natural England Habitat Network Areas[4]. The NE Habitat Network Areas and their locations within the survey area ECC Segments are as follows:

- Coastal sand dunes – ECC 1;
- Coastal saltmarsh – ECC 10 and ECC 11;
- Priority Habitat Inventory (PHI) other – ECC 12;
- Fragmentation Action Zone – ECC 1 and ECC 13;
- Network Enhancement Zone 1 – ECC 1 and ECC 10-14;
- Network Enhancement Zone 2 – ECC 14;

[4] Habitat Networks (England) is a spatial dataset that describes the geographic extent and location of Habitat Networks for 18 priority habitats based primarily, but not exclusively, on the priority habitat inventory with additional data added in relation to habitat restoration-creation, restorable habitat, plus fragmentation action, and network enhancement and expansion zones. The Habitat Network Maps provide spatial guidance to plan and develop local ecological networks and may be used to help target action to build greater ecological resilience for habitats across England.

- Network Expansion Zone - ECC 1 and ECC 10-14; and,
- Additional land within SSSIs (Site of Special Scientific Interest) - ECC 10.

21.6.4.2 Plant Species

80. A range of notable plant species has been recorded within the survey area during the field survey; the species are associated with cropland, neutral grassland, rivers and streams, scrub and woodland habitats.

81. The species recorded on the IUCN Red List (Nationally Rare/Scarce) is sea-buckthorn. Schedule 8 species, bluebell was also recorded within Friskney Decoy Wood within ECC 6, to the west of Burgh Road. The remaining species in Table 21-5 have native UK status but are not included on the IUCN Red List, Local BAP or similar but are included as LWS criteria species for specific habitats.

21.7 Conclusion

82. Habitats within the survey area are, for the most part, unexceptional and reflect the lowland, intensively agricultural nature of the landscape. Several important habitats have however been identified, and these include arable field margins, coastal floodplain grazing marsh, lowland mixed deciduous woodland, wet woodland, hedgerows, sea buckthorn scrub, ponds, rivers and associated estuary habitats, reedbeds, coastal saltmarsh and mudflats and coastal sand dunes.

83. Although not classified under the priority habitat status, a Long-established woodland of plantation origin (LEPO); Friskney Decoy Wood has been identified within the survey area and many LEPO sites have developed semi-natural characteristics and may be as rich as Ancient Woodland. In addition, green lanes have been identified within the survey area which are again not classified as priority habitats; however, they are notable as these areas are often far richer in wildlife then standalone hedgerows because of the shelter and protection that they provide.

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Annex A Biodiversity Action Plan Definitions

Annex A: Biodiversity Action Plan Definitions

Brief Summaries of the Biodiversity Action Plan (BAP) definitions referred to within the Results Section are provided below. References to the full detailed definitions are provided within each section below.

Arable Field Margins

UKBAP habitat definition for Arable Field Margins includes the following:

'Cultivated, low-input margins. These are areas within arable fields that are cultivated periodically, usually annually or biennially, but are not sprayed with spring/summer insecticides and not normally sprayed with herbicides (except for the control of injurious weeds or problem grasses such as creeping thistle, black grass, sterile brome or wild oat). Cultivated, low-input margins include conservation headlands and land managed specifically to create habitat for annual arable plants.'

'Margins sown to provide seed for wild birds. These are margins or blocks sown with plants that are allowed to set seed and which remain in place over the winter. They may be sown with cereals and/or small-seeded broad-leaved plants or grasses but areas sown with maize are excluded as they are of lower value for wild birds.'

'Margins sown with wildflowers or agricultural legumes and managed to allow flowering to provide pollen and nectar resources for invertebrates'.

'Margins providing permanent, grass strips with mixtures of tussocky and fine-leaved grasses. Areas of grass established as cross compliance requirements (see below) are excluded from this definition, but all other strips of grassland created by sowing or natural regeneration, such as field margins or beetle banks, are included.'

Fuller descriptions of the types of field margins included are provided in the UK BAP (JNCC, Website).

Within the Lincolnshire BAP the term '*arable field margin'* is used to mean *'a planned strip of uncropped land lying between a crop and the field boundary (in addition to cross compliance requirements), that is deliberately managed to benefit biodiversity, with the added benefit of protecting boundary habitats from nutrient run-off. It also refers to uncropped plots and headlands within fields. Four types of margin are included in this definition: cultivated, low-input margins; margins sown to provide food for wild birds; margins sown to provide pollen and nectar for invertebrates; permanent grassy margins'.*

Coastal Floodplain Grazing Marsh

A summary of the UKBAP definition for Coastal Floodplain Grazing Marsh is provided below.

'Grazing marsh is defined as periodically inundated pasture, or meadow with ditches which maintain the water levels, containing standing brackish or fresh water. The ditches are especially rich in plants and invertebrates. Almost all areas are grazed and some are cut for hay or silage. Sites may contain seasonal water-filled hollows and permanent ponds with emergent swamp communities, but not extensive areas of tall fen species like reeds; although they may abut with fen and reed swamp communities.'

Fuller descriptions of the types of Coastal Floodplain Grazing Marsh are provided in the UK BAP (JNCC, Website).

Lowland Mixed Deciduous Woodland

A summary of the UKBAP definition for Lowland Mixed Deciduous Woodland is provided below.

'Lowland mixed deciduous woodland includes woodland growing on the full range of soil conditions, from very acidic to base-rich, and takes in most semi-natural woodland in southern and eastern England, and in parts of lowland Wales and Scotland. It thus complements the ranges of upland oak and upland ash types. It occurs largely within enclosed landscapes, usually on sites with well-defined boundaries, at relatively low altitudes, although altitude is not a defining feature. Many are ancient woods, and they include the classic examples of ancient woodland studied by Rackham (1980) and Peterken (1981) in East Anglia and the East Midlands. The woods tend to be small, less than 20ha. Often there is evidence of past coppicing, particularly on moderately acid to base-rich soils; on very acid sands the type may be represented by former wood-pastures of oak and birch.'

Fuller descriptions of the types of Lowland Mixed Deciduous Woodland are provided in the UK BAP (JNCC, Website).

Wet Woodland

A summary of the UKBAP definition for Wet Woodland is provided below.

'Wet woodland occurs on poorly drained or seasonally wet soils, usually with alder, birch and willows as the predominant tree species, but sometimes including ash, oak, pine and beech on the drier riparian areas. It is found on floodplains, as successional habitat on fens, mires and bogs, along streams and hill-side flushes, and in peaty hollows. These woodlands occur on a range of soil types including nutrient-rich mineral and acid, nutrient-poor organic ones. The boundaries with dryland woodland may be sharp or gradual and may (but not always) change with time through succession, depending on the hydrological conditions and the treatment of the wood and its surrounding land. Therefore, wet woods frequently occur in mosaic with other woodland key habitat types (e.g. with upland mixed ash or oakwoods) and with open key habitats such as fens. Management of individual sites needs to consider both sets of requirements.'

Fuller descriptions of the types of Wet Woodland are provided in the UK BAP (JNCC, Website).

Hedgerows

A summary of the UKBAP definition for a hedgerow is provided below.

'A hedgerow is defined as any boundary line of trees or shrubs over 20m long and less than 5m wide, and where any gaps between the trees or shrub species are less that 20m wide. Any bank, wall, ditch or tree within 2m of the centre of the hedgerow is considered to be part of the hedgerow habitat, as is the herbaceous vegetation within 2m of the centre of the hedgerow. All hedgerows consisting predominantly (i.e., 80% or more cover) of at least one woody UK native species are covered by this priority habitat, where each UK country can define the list of woody species native to their respective country'.

The Lincolnshire BAP definition is more generic, stating that: '*Hedgerows are linear strips of shrubs and trees often associated with features such as ditches, banks and grass verges. They resemble woodland edge and scrub habitats and may contain relics of ancient woodland vegetation.'*

Reedbed

A summary of the UKBAP definition for reedbed is provided below.

'Reedbeds are wetlands dominated by stands of the common reed Phragmites australis, wherein the water table is at or above ground level for most of the year. They tend to incorporate areas of open water and ditches, and small areas of wet grassland and carr woodland may be associated with them. There are about 5000 ha of reedbeds in the UK, but of the 900 or so sites contributing to this total, only about 50 are greater than 20 ha, and these make a large contribution to the total area. Reedbeds are amongst the most important habitats for birds in the UK. They support a distinctive breeding bird assemblage including 6 nationally rare Red Data Birds the bittern Botaurus stellaris, marsh harrier, Circus aeruginosus, crane Grus grus, Cetti`s warbler Cettia cetti, Savi`s warbler Locustella luscinioides and bearded tit Panurus biarmicus, provide roosting and feeding sites for migratory species (including the globally threatened aquatic warbler Acrocephalus paludicola) and are used as roost sites for several raptor species in winter. Five GB Red Data Book invertebrates are also closely associated with reedbeds including red leopard moth Phragmataecia castanaea and a rove beetle Lathrobium rufipenne.'

Fuller descriptions of Reedbed are provided in the UK BAP (JNCC, Website).

Standing Open Waterbodies

The Lincolnshire BAP describes standing open waterbodies to '*comprise a range of habitat types, both natural and artificial. Ponds are generally defined as small bodies of water – between 1m^2 and 2ha in*

area – which hold water for more than four months in a year. Anything larger than 2ha is defined as a lake. Small ponds make up the majority of waterbodies in the UK.

Artificial stillwaters include *reservoirs and ponds of many types (fishing ponds, public amenities, supply reservoirs, etc). They also include ponds and lakes created by flooding of old industrial sites, such as quarries, gravel pits or old brick clay workings. Other stillwaters occur as a result of all manner of natural processes, including depressions created by glacial action or buckling of strata, exposure of aquifer surfaces, or fluvial processes, for example, ox-bows, where meanders are cut-off by sediment deposition. In addition to permanent waterbodies, ponds that seasonally dry out are important for a variety of species of conservation concern, adapted to ephemeral habitats.*'

The UKBAP definitions further subcategorise this definition into the following: *'Oligotrophic and Dystrophic Lakes', 'Ponds', 'Mesotrophic Lakes', 'Eutrophic Standing Waters', and 'Aquifer Fed Naturally Fluctuating Water Bodies.'* A summary for each of these habitat definitions are provided below.

Oligotrophic and Dystrophic Lakes

The UK BAP Priority definition states *'Oligotrophic and dystrophic lakes are water bodies mainly more than 2ha in size which are characterised by their low nutrient levels and low productivity. Their catchments usually occur on hard, acid rocks, most often in the uplands. This habitat type encompasses a wide range of size and depth, and includes the largest and deepest water bodies in the UK. Good examples may support some of the least disturbed aquatic assemblages in the UK. Oligotrophic lakes usually have very clear water, whilst some examples with dystrophic characteristics have peat-stained waters. Characteristic plankton, zoobenthos, macrophyte and fish communities occur, including several UK BAP species and species of economic importance. Fish communities, generally dominated by salmonids, may include charr (Salvelinus alpinus and Coregonus spp.). A number of benthic and planktonic invertebrates, found only in oligotrophic lakes, are possibly glacial relicts. Macrophytes are typically sparse, with species such as shoreweed (Littorella uniflora) and quillwort (Isoetes spp.). Shores are typically stony, and emergent vegetation is generally restricted to sheltered bays, where species such as bottle sedge (Carex rostrata) and bulrush (Scirpus lacustris) may be found. Oligotrophic and dystrophic lakes support a range of UK BAP priority species and other species listed on Annexes of the Habitats and Birds Directives (e.g. slender naiad (Najas flexilis), salmon (Salmo salar), common scoter (Melanitta nigra), black-throated diver (Gavia arctica), and otter (Lutra lutra).'*

Ponds

The UK BAP Priority definition states that ponds 'are defined as permanent and *seasonal standing water bodies up to 2ha in extent, which meet one or more of the following criteria:*

'Habitats of international importance: Ponds that meet criteria under Annex I of the Habitats Directive.

Species of high conservation importance: Ponds supporting Red Data Book species, UK BAP species, species fully protected under the Wildlife and Countryside Act Schedule 5 and 8, Habitats Directive Annex II species, a Nationally Scarce wetland plant species, or three Nationally Scarce aquatic invertebrate species.

Exceptional assemblages of key biotic groups: Ponds supporting exceptional populations or numbers of key species. Based on (i) criteria specified in guidelines for the selection of biological SSSIs (currently amphibians and dragonflies only), and (ii) exceptionally rich sites for plants or invertebrates (i.e., supporting ≥30 wetland plant species or ≥50 aquatic macroinvertebrate species).

Ponds of high ecological quality: Ponds classified in the top PSYM category ("high") for ecological quality (i.e., having a PSYM score ≥75%). [PSYM (the Predictive System for Multimetrics) is a method for assessing the biological quality of still waters in England and Wales; plant species and/or invertebrate families are surveyed using a standard method; the PSYM model makes predictions for the site based on environmental data and using a minimally impaired pond dataset; comparison of the prediction and observed data gives a % score for ponds quality].

Other important ponds: Individual ponds or groups of ponds with a limited geographic distribution recognised as important because of their age, rarity of type or landscape context (e.g. pingos, duneslack ponds, machair ponds).'

Mesotrophic Lakes

The UK BAP Priority definition states that Mesotrophic lakes are *'relatively infrequent in the UK and largely confined to the margins of upland areas in the north and west. They are characterised by having a narrow range of nutrients, the main indicative ones being inorganic nitrogen (N) and total phosphorus (P). Typically, mesotrophic lakes have nutrient levels of 0.3–0.65 mgNl-1 and 0.01–0.03 mgPl-1. Whilst such levels simplify the complex interaction between plant nutrients and the hydrological and physical characteristics of individual lakes (for instance, virtually all available nutrients are 'locked up' in algae during the growing season), they serve to show the sensitivity of the trophic state to artificially increased levels of nitrogen and phosphorus. Thus, this is an increasingly rare type of lake. Several of the largest and most important lakes in the UK, including Lough Neagh and Lower Lough Erne were once mesotrophic but are now classified as eutrophic and not included in this action plan. Two existing large mesotrophic lakes, Lough Melvin and Upper Lough MacNean straddle the international border with the Republic of Ireland.'*

In addition, '*Mesotrophic lakes potentially have the highest macrophyte diversity of any lake type. Furthermore, relative to other lake types, they contain a higher proportion of nationally scarce and rare*

aquatic plants. Macroinvertebrates are well represented, with particularly important groups being dragonflies, water beetles, stoneflies and mayflies. Rare fish, of which only three species are found in UK lakes, are well represented in mesotrophic lakes… In general, fish communities in mesotrophic lakes are a mix of coarse and salmonid species, but today there are few truly natural assemblages due to introduced species.'

Eutrophic Standing Waters

'Eutrophic standing waters are highly productive because plant nutrients are plentiful, either naturally or as a result of artificial enrichment. These water bodies are characterised by having dense, long-term populations of algae in mid-summer, often making the water green. Their beds are covered by dark anaerobic mud, rich in organic matter. The water column typically contains at least 0.035mgL-1 total phosphorus (which includes phosphorus bound up in plankton and 0.5mgL-1 or more total inorganic nitrogen (mainly in the form of dissolved nitrates) ... Eutrophic waters are most typical of hard water areas of the lowlands of southern and eastern Britain, but they also occur in the north and west, especially near the coast.'

Aquifer Fed Naturally Fluctuating Water Bodies

Such waterbodies are defined as '*natural water bodies which have an intrinsic regime of extreme fluctuation in water level, with periods of complete or almost complete drying out as part of the natural cycle. They have no inflow or outflow streams at the surface, except at times of very high water level, when temporary out-flows may develop. Instead, they are directly connected to the underlying groundwater system and periodically empty and are recharged via swallow holes or smaller openings in their beds.'*

Rivers and streams

The UK BAP definition includes a wide range of river types and encompasses all natural and near natural running waters in the UK. Numerous natural factors influence the ecology of a watercourse, with many of these changing as the water flows from source to sea or lake, with human activities adding further complexity to this picture.

In light of this, although various classifications and typologies for rivers exist, none are considered adequate for identifying a comprehensive series of specific priority types for Rivers, and as such, the UKBAP Habitat definition includes a broad river classification (which includes chalk rivers). However, work has been conducted to refine the criteria to identify the priority habitat. See below criteria taken from the UKBAP Habitat definition.

'*River water bodies will qualify as BAP priority habitat either because they are considered to be near-natural, or because they fulfil one or more specific criteria relating to BAP priority species or to*

particular habitat types. …As a significant proportion of the running water resource in the UK is likely to qualify, achievable priorities will need to be set for action... The list of qualifying criteria is as follows…

- *Riverine water bodies of high hydromorphological/ecological status. The Environment Agency, the Northern Ireland Environment Agency and the Scottish Environmental Protection Agency have developed criteria and rules to identify such water bodies (http://www.wfduk.org/resources%20/river-morphology-high-status-features-and-criteria).*
- *Headwaters. To qualify as a priority habitat for 'Rivers' under the criterion of 'headwaters' a stream must be: a watercourse within 2.5km of its furthest source as marked with a blue line on Ordnance Survey (OS) maps at a scale of 1:50,000. Note that each tributary of a river will have its own headwater, so there will be more than one (sometimes many more) per catchment. Headwaters which have been significantly altered from their natural state are however not included.*
- *Occurrence of the EC Habitat Directive Annex I habitat (H3260 Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation). The definition will include (but not be confined to) all river SACs designated for the feature.*
- *Chalk Rivers as given in the existing BAP definition.*
- *Active shingle rivers. Data for this can come from River Habitat Surveys (Environment Agency 2003) or indicator species of invertebrate (see criterion 7).*
- *A/SSSIs (Areas/Sites of Special Scientific Interest) designated for river species, riverine features or fluvial geomorphology.*
- *Species including:*
  - *Annex II Habitats Directive species 3*
  - *BAP priority species*
  - *Invertebrate species which are strongly indicative of river shingle*
- *See the list of qualifying species, Annex 1. To qualify, an ECS or WFD water body needs to have either:*
  - *records of any one species from criterion levels A (BAP priority species strongly dependent on river habitat quality) or C (non-BAP priority species, indicative of shingle rivers), or*
  - *from criterion level B (widespread BAP priority species which are less dependent on river habitat quality alone), records of six or more species. This threshold has been selected by*

looking at available records for all criteria and identifying a level which returns a manageable proportion of the rivers network.'

It is important to note that the UKBAP Habitat criteria also makes allowance for where English, Northern Irish, Scottish or Welsh country biodiversity groups have signed off their own lists of BAP priority species, including species which are not in the UK list, should these species be present within the rivers, then such rivers can qualify for these species using criteria agreed at country level.

Also included within the UBAP Habitat Definition for River is the criteria for chalk rivers. Such rivers have a characteristic plant community, often dominated by water crowfoot (*Ranunculus penicillatus* var. *pseudofluitans*) and starworts (*Callitriche obtusangula* and *C.platycarpa*) within the middle of the channel, and along the edges by watercress (*Rorippa nastrurtuum-aquaticum*) and lesser water-parsnip (*Berula erecta*). They generally have low banks which support further water-loving flora. The rivers are known to support rich diversity of invertebrate life and fisheries. Annex II species the rivers support include brown trout (Salmo trutta), brook lamprey (*Lampetra planeri*), salmon (*Salmo salar*), crayfish (*Austropotamobious pallipes*), and otter (*Lutra lutra*).

Further information regarding this UK BAP Habitat is available at: Rivers (UK BAP Priority Habitat description) (jncc.gov.uk).

The Lincolnshire BAP separates the Rivers into Chalk and blow streams priority habitat and rivers, canals, and drains priority habitat. Other wetland habitat listed under the BAP includes Fens; Ponds, lakes, and reservoirs; reedbeds and bittern (*Botaurus stellais*); and springs and flushes.

The BAP defines *chalk* rivers as *'fed from groundwater aquifers, producing clear waters and a generally stable flow and temperature regime. These conditions support a rich diversity of animals (including lamprey, brown trout, grayling and otter) and a characteristic calcicole (lime-loving) flora. Most may exhibit seasonal drying in their upper reaches due to lack of rainfall recharging the aquifer, but many also experience this due to drawdown due to abstraction pressure.'* Whilst blow wells are defined as '*Blow wells are an unusual feature of the hydrogeology of north-east Lincolnshire. They are chalk-water springs occurring where high groundwater pressure has forced a flow path upward through the confining boulder clay and gravel69 . Like chalk streams, blow wells also have characteristic associated flora and fauna, but their status as geological features make them worthy of protection in their own right.'*

The Lincolnshire BAP Habitat Action Plan for Rivers covers all Lincolnshire's watercourses – natural, modified, and man-made. The only exception is chalk rivers which are covered within their own Habitat Action Plan.

Coastal Saltmarsh

A summary of the UKBAP definition for Coastal Saltmarsh is provided below.

'Coastal saltmarshes in the UK (also known as 'merse' in Scotland) comprise the upper, vegetated portions of intertidal mudflats, lying approximately between mean high water neap tides and mean high water spring tides. For the purposes of this action plan, however, the lower limit of saltmarsh is defined as the lower limit of pioneer saltmarsh vegetation (but excluding seagrass Zostera beds) and the upper limit as one metre above the level of highest astronomical tides to take in transitional zones. Saltmarshes are usually restricted to comparatively sheltered locations in five main physiographic situations: in estuaries, in saline lagoons, behind barrier islands, at the heads of sea lochs, and on beach plains. The development of saltmarsh vegetation is dependent on the presence of intertidal mudflats.'

Fuller descriptions of Coastal Saltmarsh are provided in the UK BAP (JNCC, Website).

Intertidal Mudflats

A summary of the UKBAP definition for Intertidal Mudflats is provided below.

'Mudflats are sedimentary intertidal habitats created by deposition in low energy coastal environments, particularly estuaries and other sheltered areas. Their sediment consists mostly of silts and clays with a high organic content. Towards the mouths of estuaries where salinity and wave energy are higher the proportion of sand increases. Mudflats are intimately linked by physical processes to, and may be dependent on, other coastal habitats such as soft cliffs and saltmarshes. They commonly appear in the natural sequence of habitats between subtidal channels and vegetated saltmarshes. In large estuaries they may be several kilometres wide and commonly form the largest part of the intertidal area of estuaries. However, in many places they have been much reduced by land claim.'

Fuller descriptions of Intertidal Mudflats are provided in the UK BAP (JNCC, Website).

Coastal Sand Dunes

A summary of the UKBAP definition for Coastal Sand Dunes is provided below.

'Coastal sand dunes develop where there is an adequate supply of sand (sediment within the size range 0.2 to 2.0 mm) in the intertidal zone and where onshore winds are prevalent. The critical factor is the presence of a sufficiently large beach plain whose surface dries out between high tides. The dry sand is then blown landwards and deposited above high water mark, where it is trapped by specialised dune-building grasses which grow up through successive layers of deposited sand.'

'Sand dune vegetation forms a number of zones, which are related to the time elapsed since the sand was deposited, the degree of stability which it has attained, and the local hydrological conditions.

Embryonic and mobile dunes occur mainly on the seaward side of a dune system where sand deposition is occurring and occasionally further inland in blow-outs. They support very few plant species, the most characteristic being marram grass Ammophila arenaria. Semi-fixed dunes occur where the rate of sand accretion has slowed but the surface is still predominantly bare sand; marram is still common but there is an increasing number of other species. Fixed dune grassland forms largely closed swards where accretion is no longer significant, the surface is stabilised and some soil development has taken place. Calcareous fixed dunes support a particularly wide range of plant species. On dunes which have become acidified by leaching, acid dune grassland or dune heaths develop. Dune heaths are usually dominated by heather Calluna vulgaris. Acidic dunes which are heavily grazed by rabbits may support lichen communities. Dune slack vegetation occurs in wet depressions between dune ridges; it is often characterised by creeping willow Salix repens sap. argentea and a number of mosses. Fixed dunes and dune heath are particularly threatened habitats and are regarded as priorities under the EC Habitats Directive.'

'The fixed dune communities mentioned above are, or have been, maintained by grazing, whether by domestic stock or by rabbits. In their absence, the succession proceeds to rough grass and scrub. Dune scrub can include several species but only one of them, sea buckthorn Hippophaë rhamnoides, is largely confined to dunes; it is native to eastern England and south-east Scotland and has been widely introduced elsewhere, where it's very invasive nature can cause problems. Wetter parts of dune systems may become colonised by sallows Salix spp., birches Betula spp. or alder Alnus glutinosa.'

Fuller descriptions of Coastal Sand Dunes are provided in the UK BAP (JNCC, Website).

Estuaries (H1130)

A summary of the JNCC description of Estuaries (H1130) is provided below.

'Estuaries are habitat complexes which comprise an interdependent mosaic of subtidal and intertidal habitats, which are closely associated with surrounding terrestrial habitats. Many of these habitats, such as 1140 Mudflats and sandflats not covered by sea water at low tide, saltmarshes, 1110 Sandbanks which are slightly covered by sea water all the time and 1170 Reefs, are identified as Annex I habitat types in their own right.'

'Estuaries are defined as the downstream part of a river valley, subject to the tide and extending from the limit of brackish water. There is a gradient of salinity from freshwater in the river to increasingly marine conditions towards the open sea. The input of sediment from the river, the shelter of the estuary from wave action, and the often low current flows typically lead to the presence of extensive intertidal sediment flats and sediment-filled subtidal channels. There is usually only a limited extent of

rocky habitat. In contrast, marine inlets where seawater is not significantly diluted by freshwater are considered as Annex I type 1160 Large shallow inlets and bays.'

Fuller descriptions of Estuaries (H1130) are provided on the JNCC, Website.

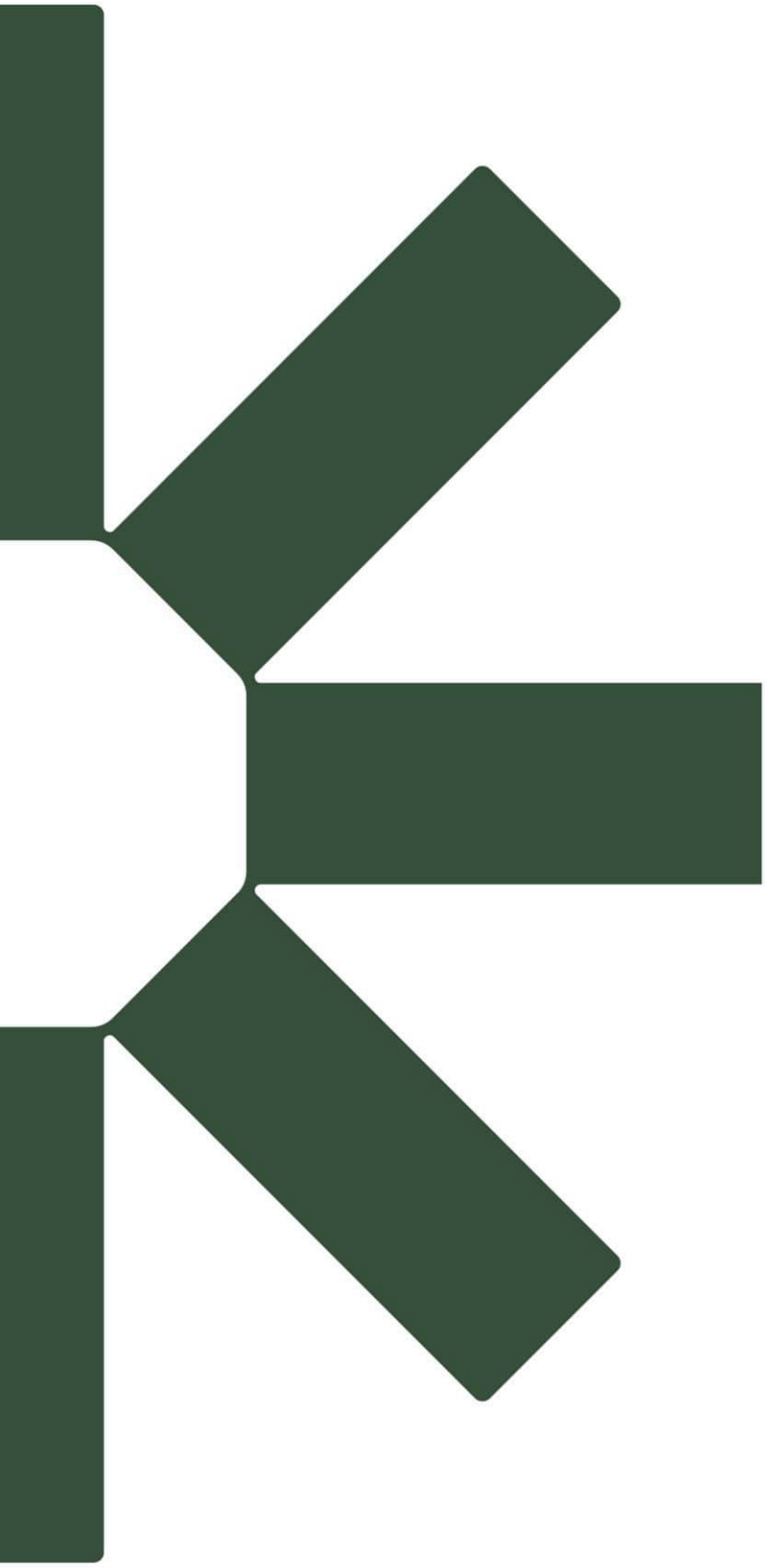
Dunes with *Hippophae rhamnoides* (2160)

A summary of the JNCC description of Dunes with *Hippophae rhamnoides* (2160) is provided below.

'Dunes with Hippophae rhamnoides comprise scrub vegetation on more-or-less stable sand dunes in which sea-buckthorn H. rhamnoides is abundant. Sea-buckthorn may either form dense thickets, with sparse nitrophilous associates such as common nettle Urtica dioica, or occur as more scattered bushes interspersed with various grasses, typically marram Ammophila arenaria and red fescue Festuca rubra, and associated herbs of dune grassland. This vegetation corresponds with NVC type SD18 Hippophae rhamnoides dune scrub.'

'This habitat is found at scattered coastal localities around the UK, but as a native vegetation type it is confined to a few sites on the east coast of England (Pearson & Rogers 1962). Elsewhere sea-buckthorn has been planted, and is generally regarded as a conservation problem as it tends to invade other dune habitats and change the nutrient status of the soil where it grows.'

Fuller descriptions of Dunes with *Hippophae rhamnoides* (2160) are provided on the JNCC, Website.



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