



# NORTH FALLS

*Offshore Wind Farm*

## ENVIRONMENTAL STATEMENT

### Chapter 8 Figures

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APFP Regulation:	5(2)(a)
Date:	July 2024
Revision:	0

**Project Reference: EN010119**



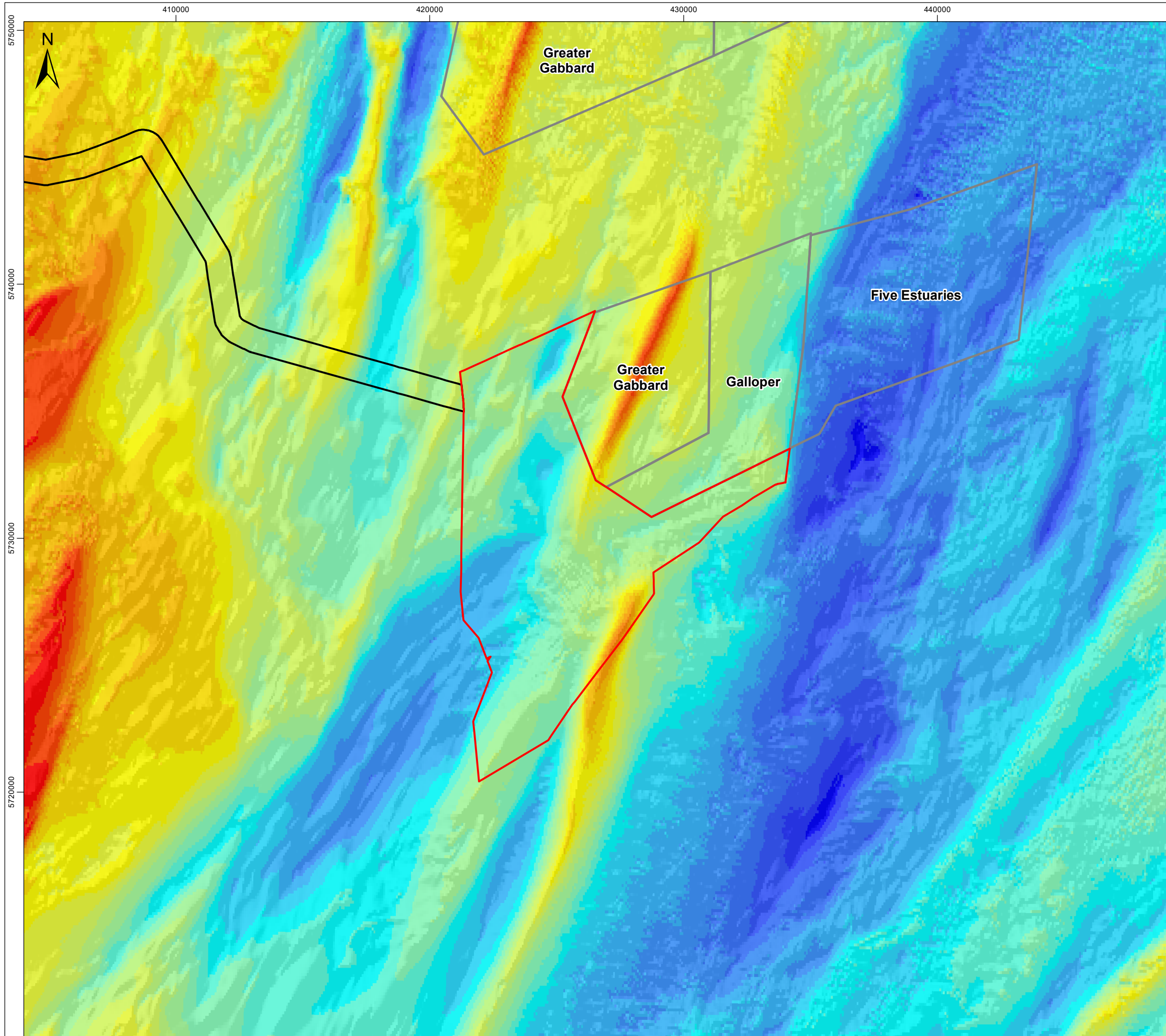
**NORTH FALLS**

*Offshore Wind Farm*

<b>Project</b>	North Falls Offshore Wind Farm
<b>Document Title</b>	Environmental Statement Chapter 8 Figures
<b>Document Reference</b>	3.2.4
<b>APFP Regulation</b>	5(2)(a)
<b>Supplier</b>	Royal HaskoningDHV
<b>Supplier Document ID</b>	PB9244-RHD-ES-OF-RP-OF-0192

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<b>Revision</b>	<b>Date</b>	<b>Status/Reason for Issue</b>	<b>Originator</b>	<b>Checked</b>	<b>Approved</b>
0	July 2024	Submission	RHDHV	NFOW	NFOW



**Legend**

- North Falls Array Area
- Offshore Cable Corridor
- Offshore Wind Farm Site

**Bathymetry (LAT)**

-37.5 - -39.9	-40 - -42.4
-42.5 - -44.9	-45 - -47.4
-47.5 - -49.9	-50 - -52.4
-52.5 - -54.9	-55 - -57.4
-57.5 - -59.9	

0 - -4.9  
-5 - -9.9  
-10 - -12.4  
-12.5 - -14.9  
-15 - -17.4  
-17.5 - -19.9  
-20 - -22.4  
-22.5 - -24.9  
-25 - -27.4  
-27.5 - -29.9  
-30 - -32.4  
-32.5 - -34.9  
-35 - -37.4

0 1.25 2.5 5 nm  
0 2.5 5 10 km

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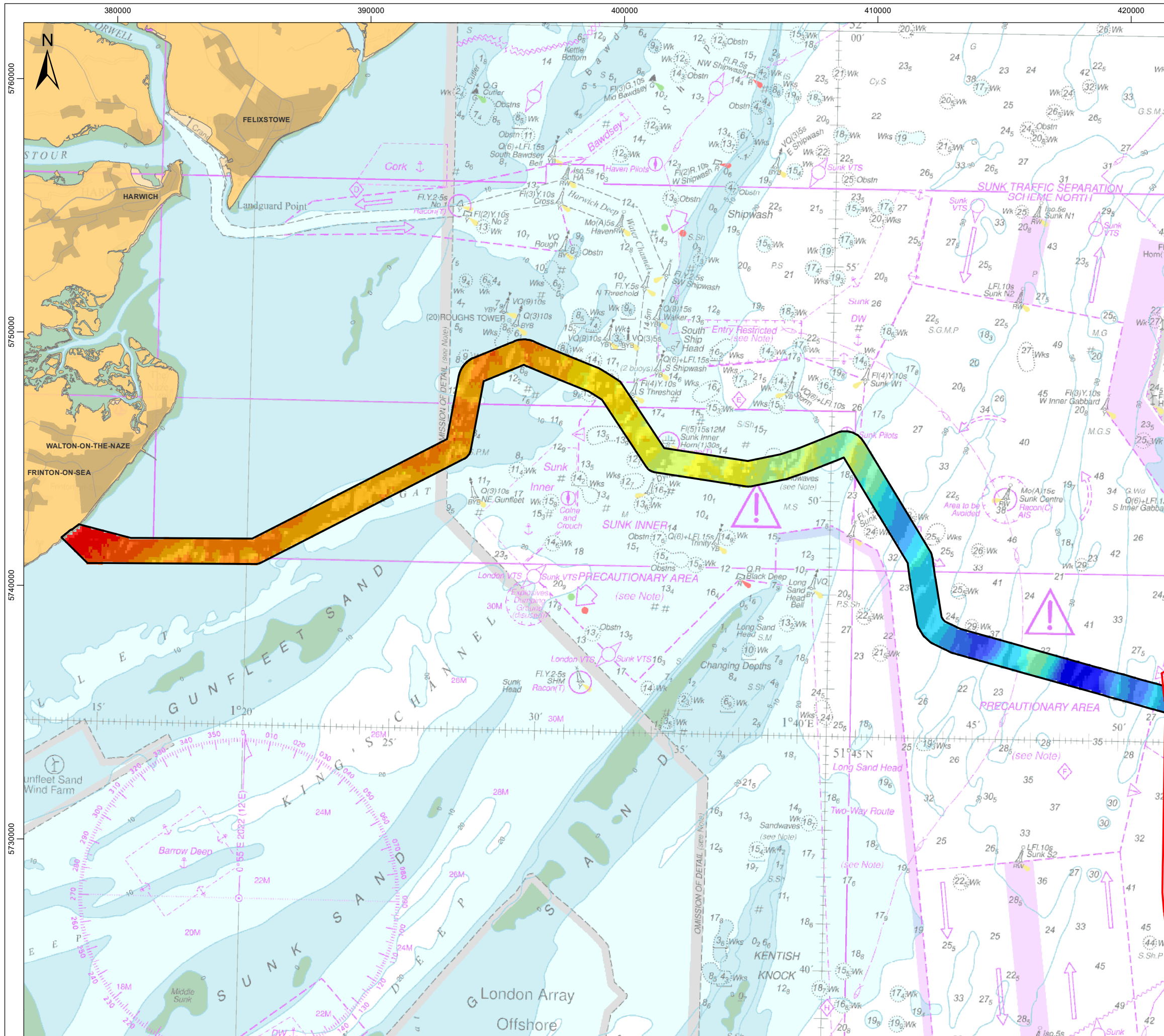
Drawing Title  
**Bathymetry and Bedforms of the North Falls Array Area**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number: **PB9244-RHD-ZZ-OF-DR-GS-0368**      Figure Number: **8.1**

Scale: 1:150,000      Plot Size: A3      Datum: WGS84      Projection: UTM31N





**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Bathymetry (LAT)**

- 0.25 - -4.9
- 5 - -7.4
- 7.5 - -9.9
- 10 - -12.4
- 12.5 - -14.9
- 15 - -17.4
- 17.5 - -19.9
- 20 - -22.4
- 22.5 - -24.9
- 25 - -27.4
- 27.5 - -29.9
- 30 - -32.4
- 32.5 - -34.9
- 35 - -37.4
- 37.5 - -40.9

0 1.25 2.5 5 nm  
0 2.5 5 10 km

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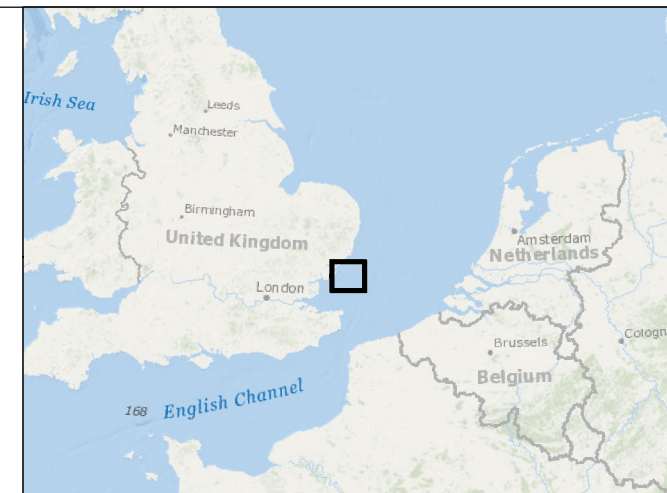
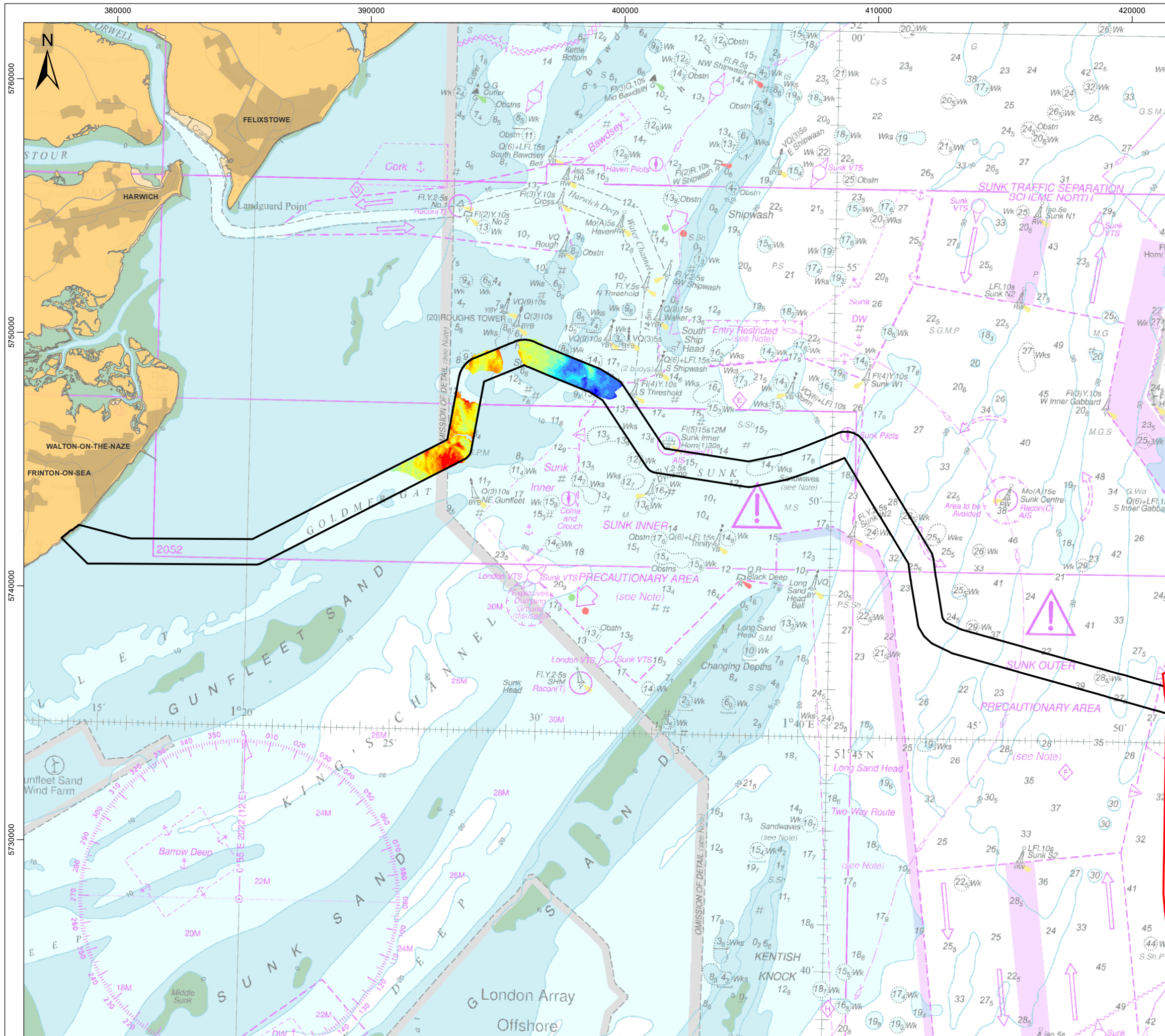
Drawing Title

### Bathymetry and Bedforms of the Offshore Cable Corridor

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0369</b>	<b>8.2</b>

Scale	Plot Size	Datum	Projection
1:150,000	A3	WGS84	UTM31N



**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Top Harwich Member Depth BSF (m)**

- 0 - 1
- 1.1 - 2
- 2.1 - 3
- 3.1 - 4
- 4.1 - 5
- 5.1 - 6
- 6.1 - 7
- 7.1 - 8
- 8.1 - 9
- 9.1 - 10
- 10.1 - 11
- 11.1 - 12

0 1.25 2.5 5 nm  
0 2.5 5 10 km

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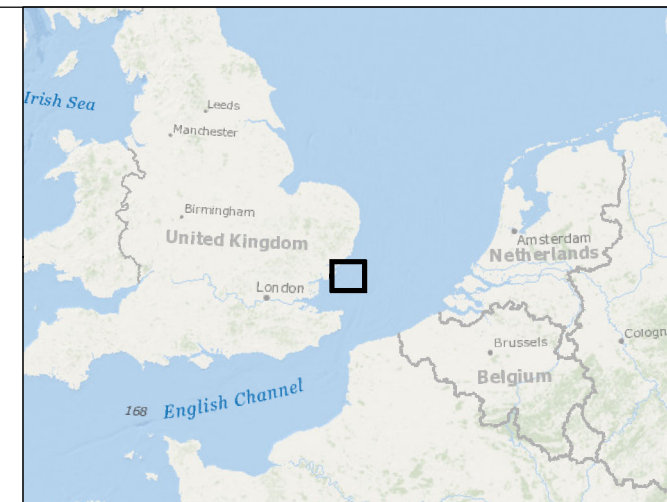
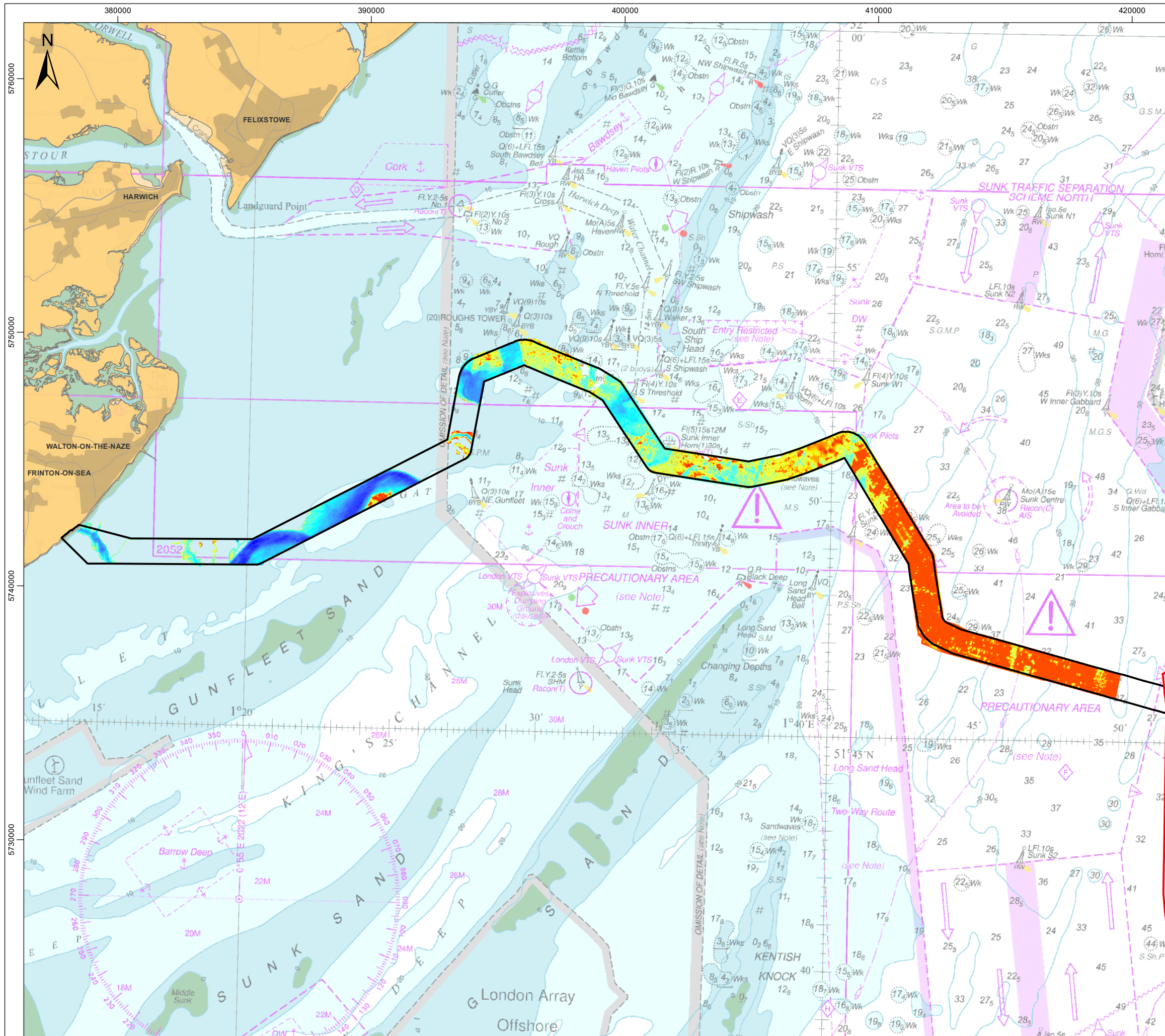
**Drawing Title**  
**Depth Below the Seabed to the Top of the Harwich Formation along the Offshore Cable Corridor**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0370</b>	<b>8.3</b>

Scale	Plot Size	Datum	Projection
1:150,000	A3	WGS84	UTM31N





**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Top London Clay Depth BSF (m)**

	0 - 0.1		0.51 - 0.6
	0.1 - 0.2		0.61 - 0.7
	0.2 - 0.21		0.71 - 0.8
	0.21 - 0.22		0.81 - 0.9
	0.22 - 0.23		0.91 - 1
	0.23 - 0.24		1.01 - 2
	0.24 - 0.25		2.01 - 3
	0.25 - 0.26		3.01 - 4
	0.26 - 0.27		4.01 - 5
	0.27 - 0.28		5.01 - 6
	0.28 - 0.29		6.01 - 7
	0.29 - 0.3		7.01 - 8
	0.31 - 0.4		8.01 - 9
	0.41 - 0.5		9.01 - 10
			10.01 - 11
			11.01 - 12
			12.01 - 13
			13.01 - 14.4

0 1.25 2.5 5 nm  
0 2.5 5 10 km

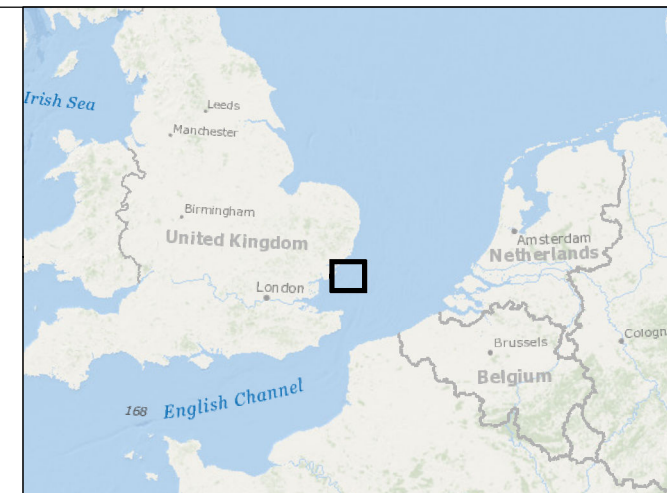
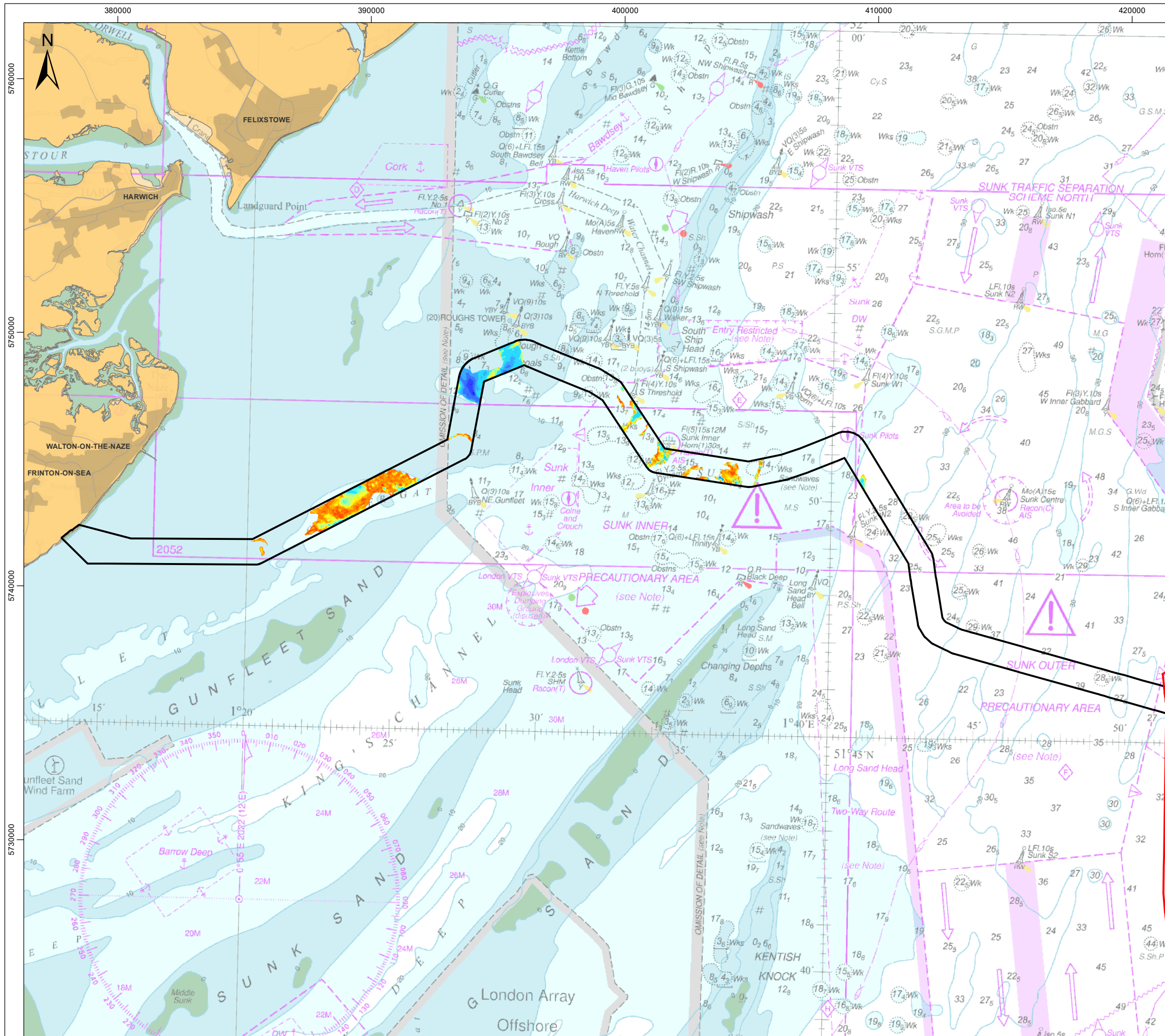
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**Drawing Title**  
**Depth Below the Seabed to the Top of the London Clay along the Offshore Cable Corridor**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0371</b>	<b>8.4</b>

Scale	Plot Size	Datum	Projection
1:150,000	A3	WGS84	UTM31N



**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Base Pleistocene Depth BSF (m)**

- 0 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- 1.01 - 2
- 2.01 - 3

0 1.25 2.5 5 nm  
0 2.5 5 10 km

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**Drawing Title**  
**Depth Below the Seabed to the Base of the Pleistocene Unit along the Offshore Cable Corridor**

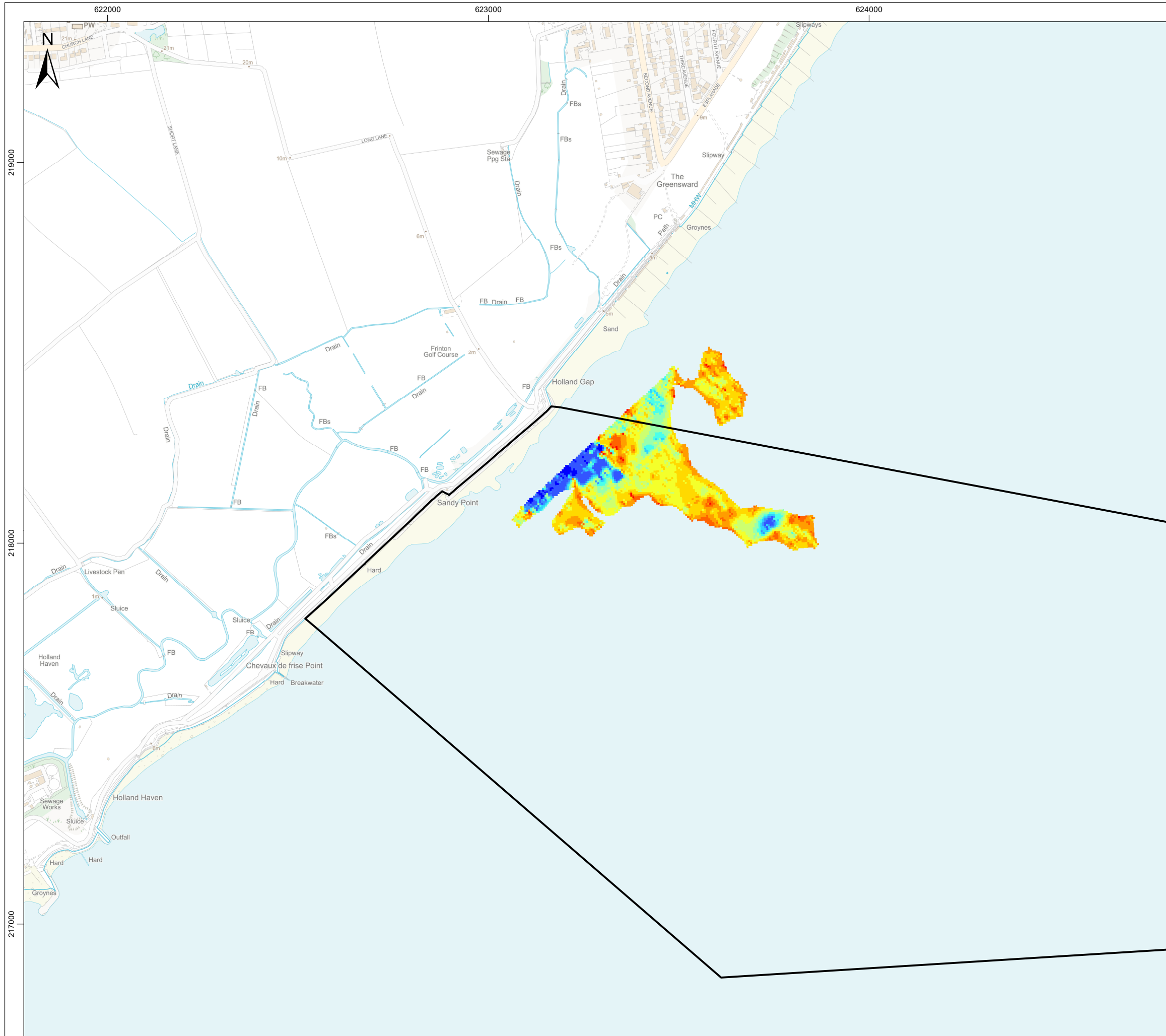
Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0372</b>	<b>8.5</b>

Scale	Plot Size	Datum	Projection
1:150,000	A3	WGS84	UTM31N

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Offshore Wind Farm



**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Base Shore Unit Depth BSF (m)**

- 0 - 0.1
- 0.11 - 0.2
- 0.21 - 0.3
- 0.31 - 0.4
- 0.41 - 0.5
- 0.51 - 0.6
- 0.61 - 0.7
- 0.71 - 0.8
- 0.81 - 0.9
- 0.91 - 1
- 1.1 - 1.5
- 1.51 - 2.2

0    125    250    500 Metres

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**Depth Below the Seabed to the 'Base Shore Unit' Interpreted Close to the Landfall**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0373</b>	<b>8.6</b>

Scale	Plot Size	Datum	Projection
1:10,000	A3	OSGB36	BNG

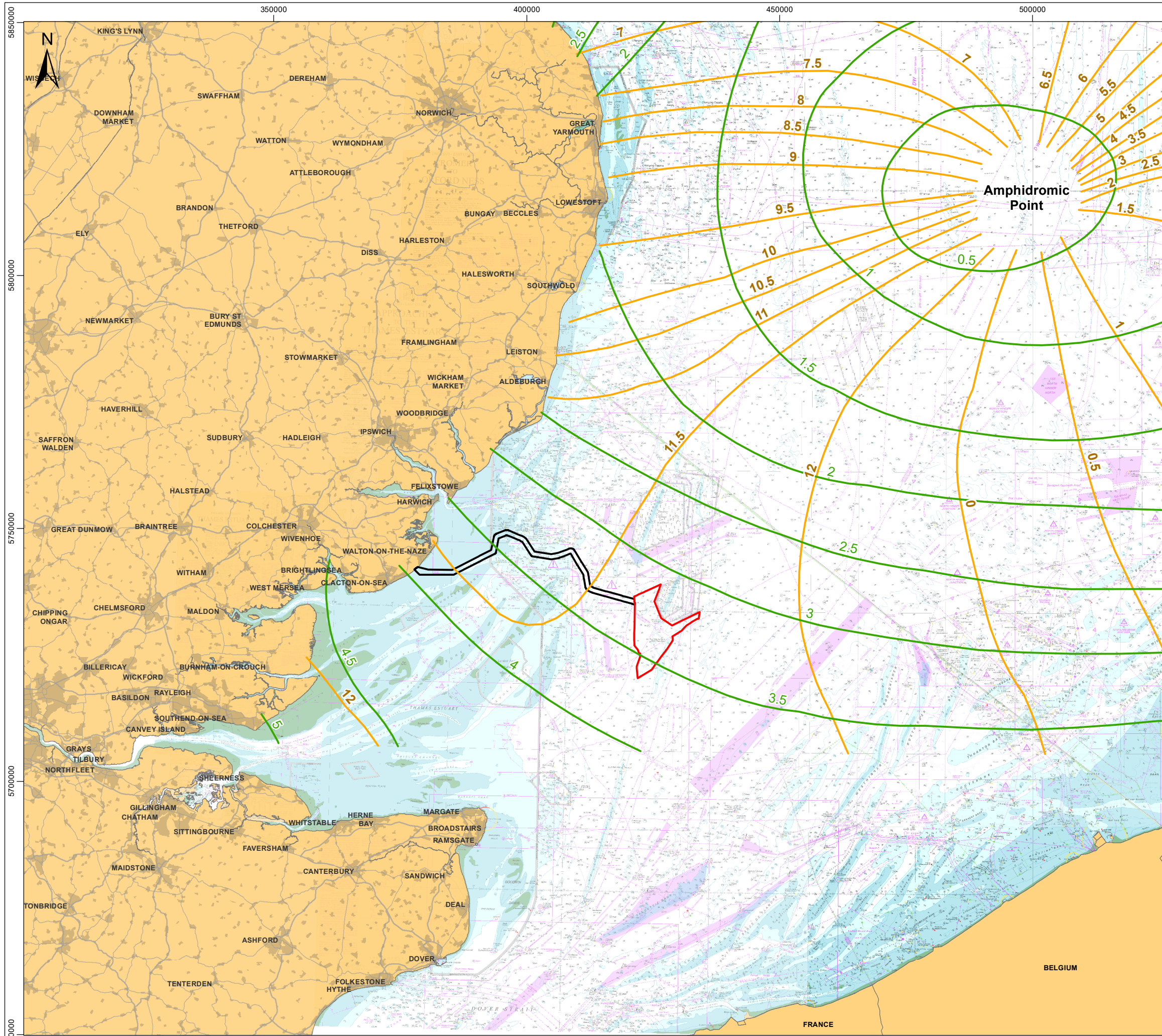


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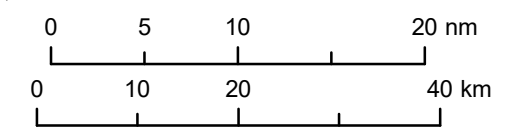
NORTH FALLS  
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- Legend**
- North Falls Array Area
  - Offshore Cable Corridor
  - Co-Range Contour (m)<sup>1</sup>
  - Co-Tidal Contour (h) - (Lines connecting points at which high tide occurs simultaneously)<sup>1</sup>

NOTE: Co-tidal units = lunar hours (1/24 of a lunar day of 24.8 hours = about 1 hour and 2 minutes) after the moon has passed the Greenwich meridian  
<sup>1</sup> ABPmer, 2012



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Drawing Title

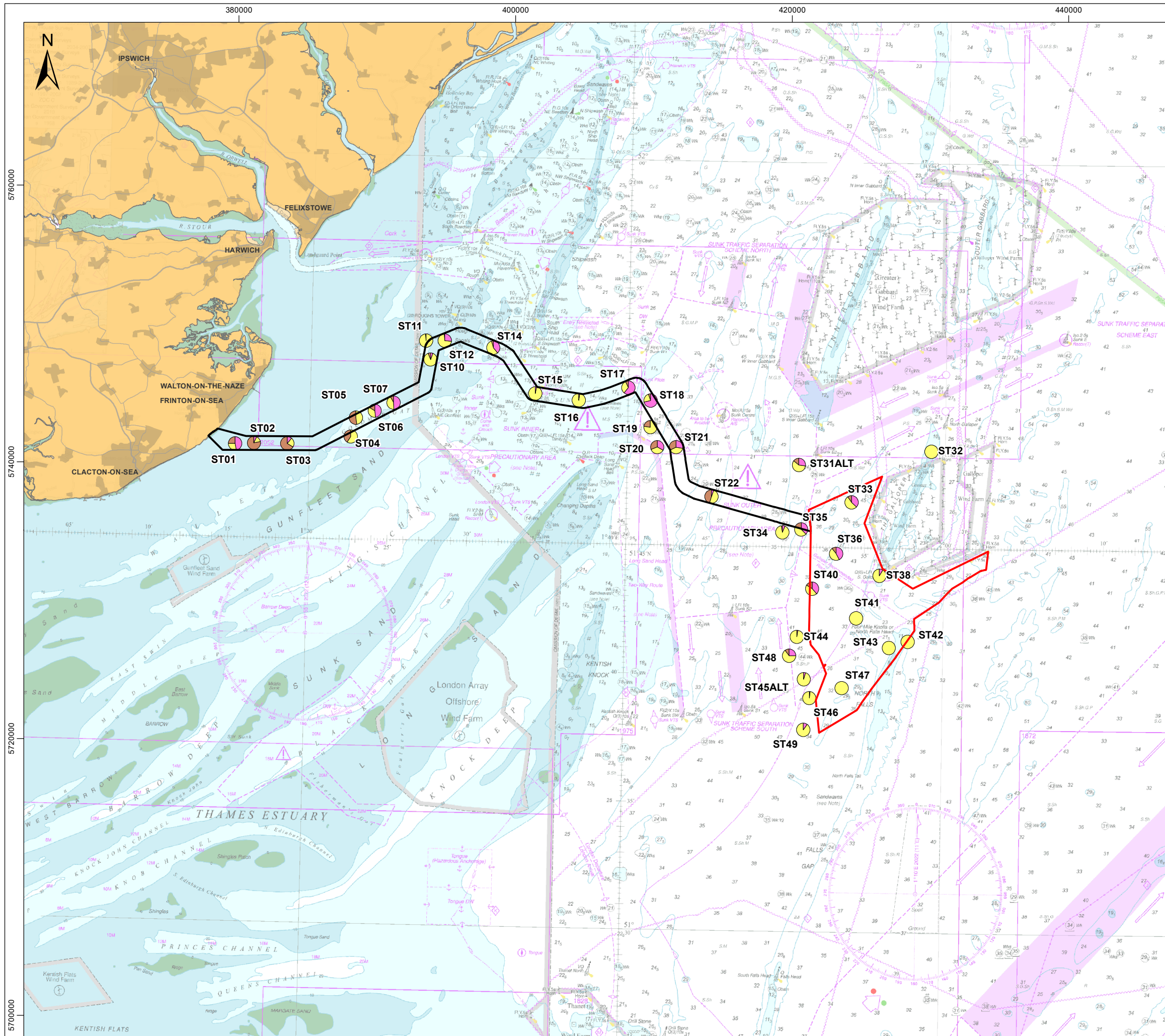
## Position of the Amphidromic Point

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number: **PB9244-RHD-ZZ-OF-DR-GS-0374**      Figure Number: **8.7**

Scale: 1:750,000      Plot Size: A3      Datum: WGS84      Projection: UTM31N





**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Fractional Sediment Composition (%)**

- Gravel
- Sand
- Fines

0 2.5 5 10 nm  
0 5 10 20 km

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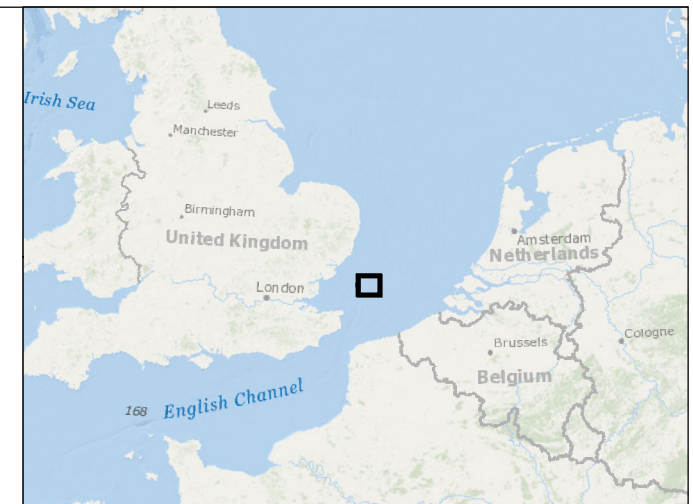
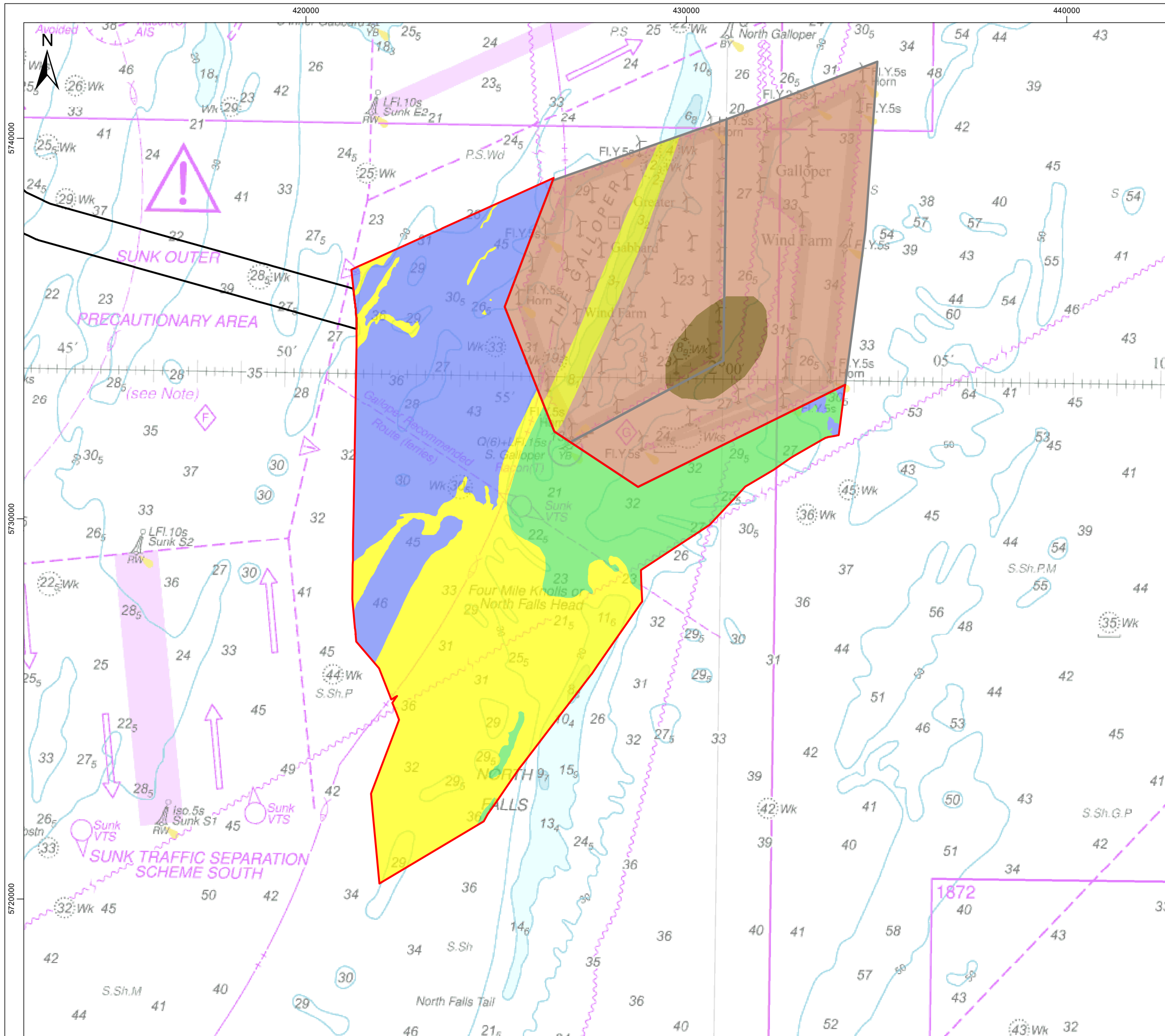
Drawing Title  
**Sediment Sample Locations at North Falls**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

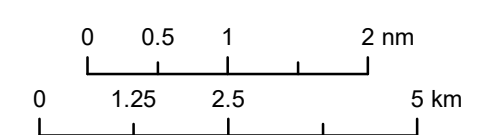
Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0375</b>	Figure Number <b>8.8</b>
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Scale 1:275,000	Plot Size A3	Datum WGS84	Projection UTM31N
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- Legend**
- North Falls Array Area
  - Offshore Cable Corridor
  - Offshore Wind Farm Site
- Seabed Sediment Interpretation**
- Gravelly Sand
  - Muddy Sand
  - Sand
- EUNIS Habitat Type**
- Coarse Substrate
  - Mixed Sediment
  - Sand



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Drawing Title

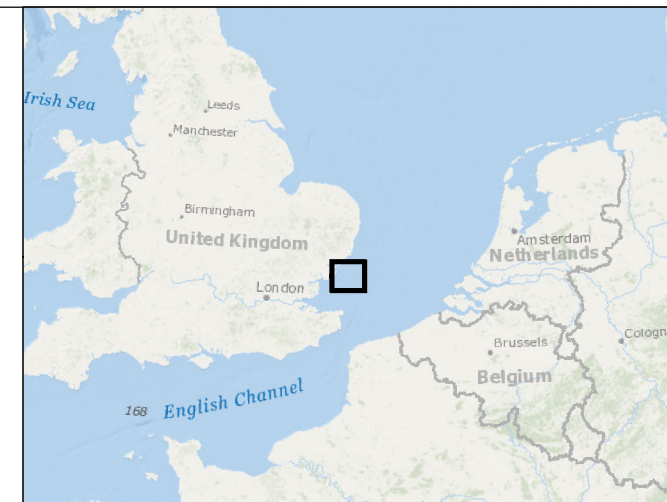
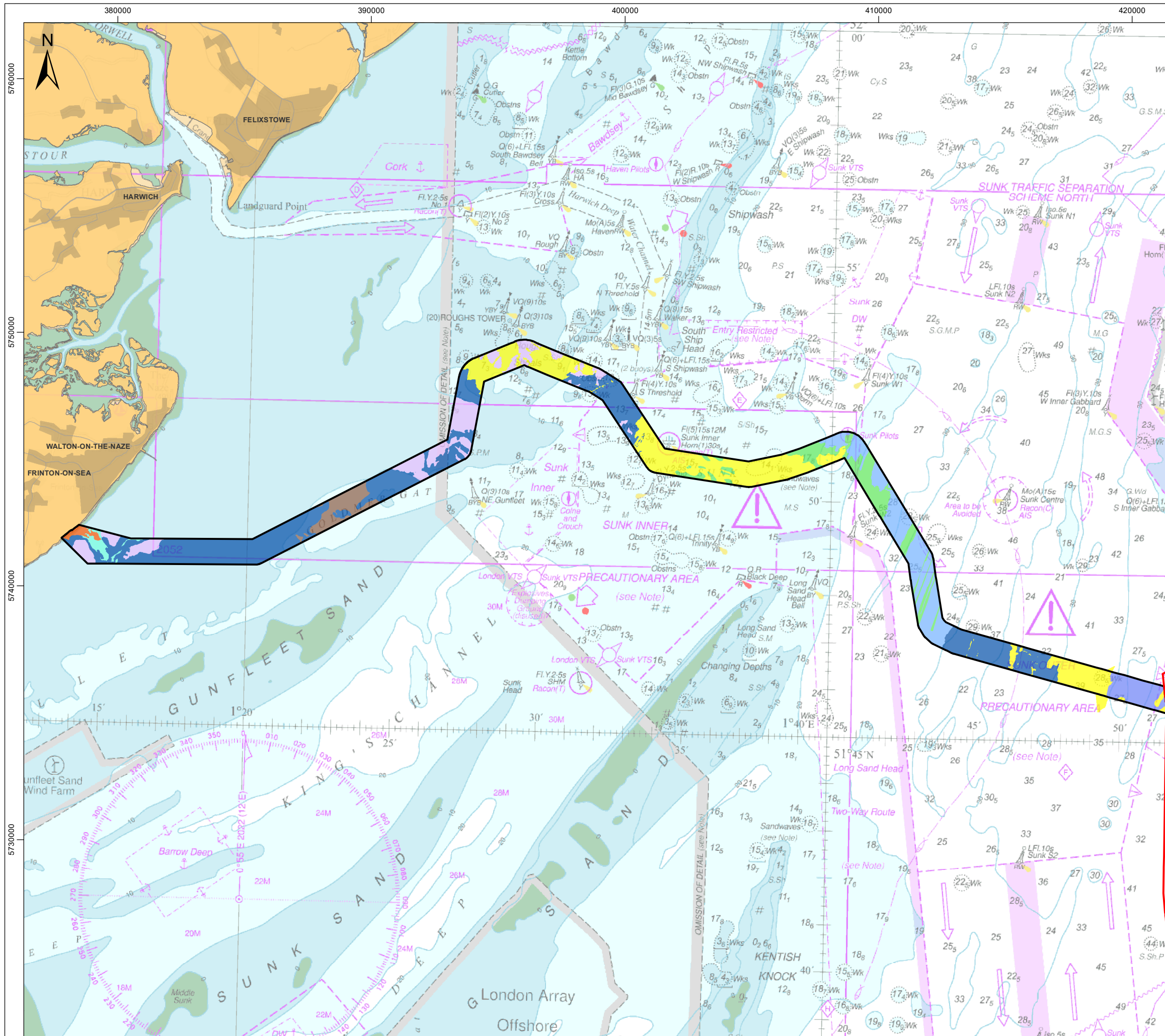
### Seabed Sediment Interpretation of the Array Area

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0376</b>	Figure Number <b>8.9</b>
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Scale 1:100,000	Plot Size A3	Datum WGS84	Projection UTM31N
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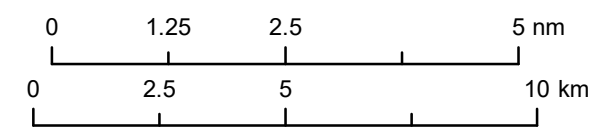


**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Seabed Sediment Interpretation**

- Channel Infill
- Gravelly Mud
- Gravelly Sand
- Mud
- Muddy Sand
- Outcrop/Subcrop
- Sand
- Sandy Gravel
- Shore Unit



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Drawing Title

### Seabed Sediment Interpretation of the Offshore Cable Corridor

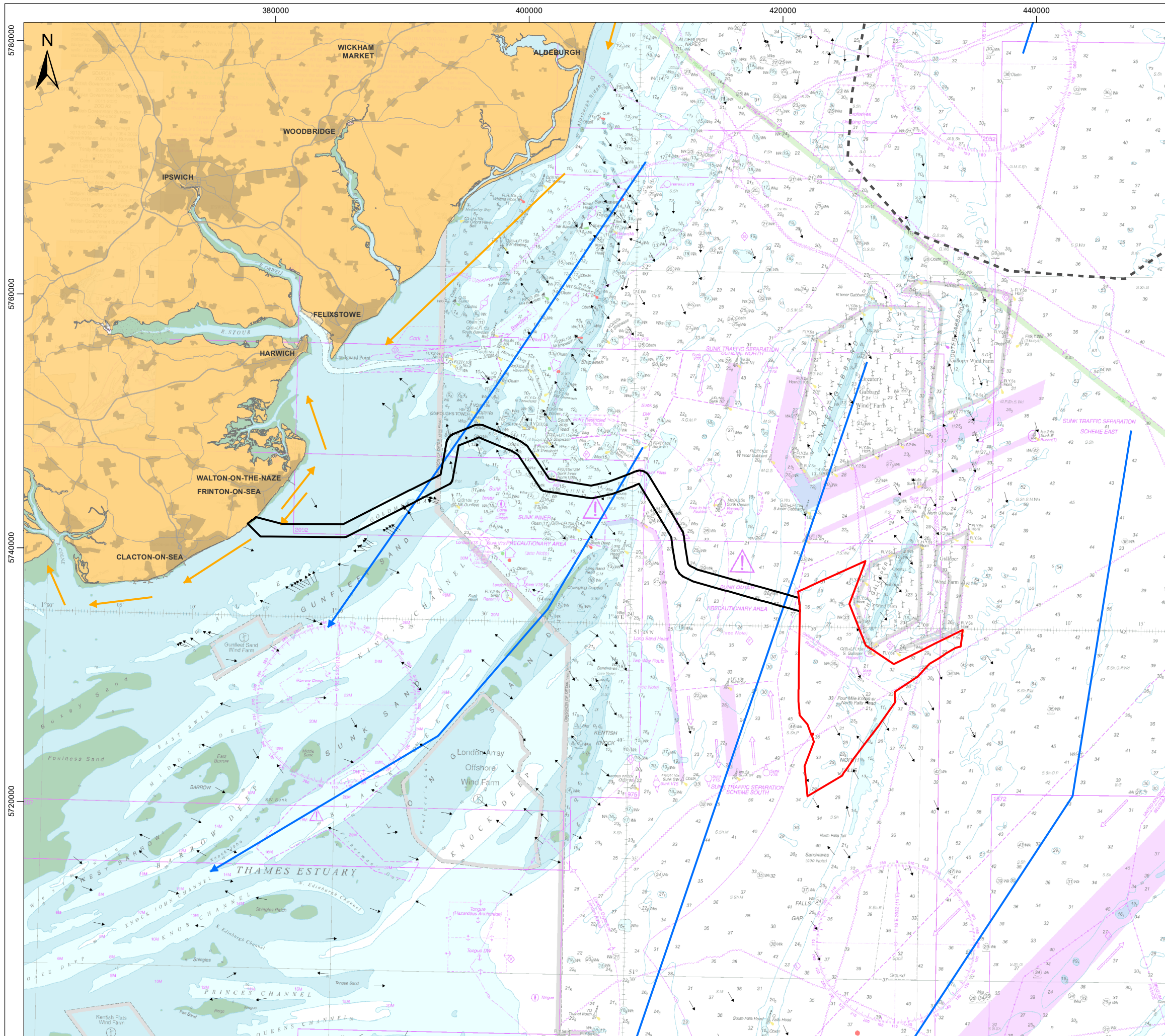
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01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
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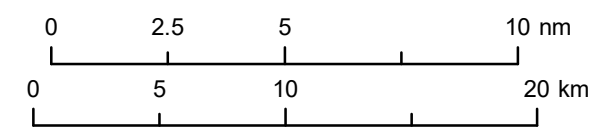
Scale	Plot Size	Datum	Projection
1:150,000	A3	WGS84	UTM31N

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- Legend**
- North Falls Array Area
  - Offshore Cable Corridor
  - ↑ Southern North Sea Transport Vector
  - Longshore Transport
  - Dominantly Tidal
  - - - Bed Load Parting



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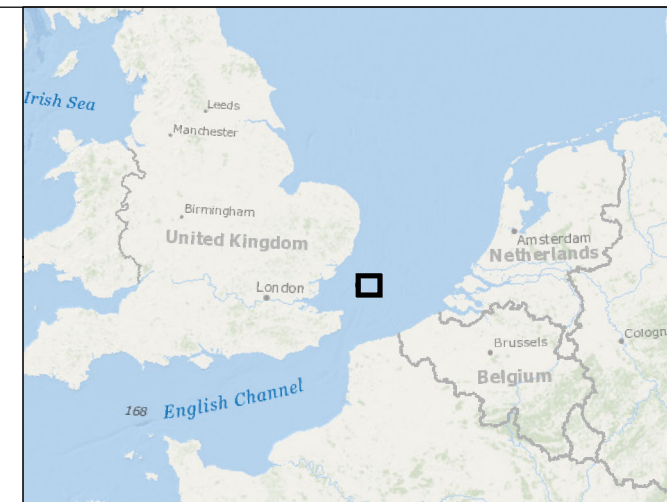
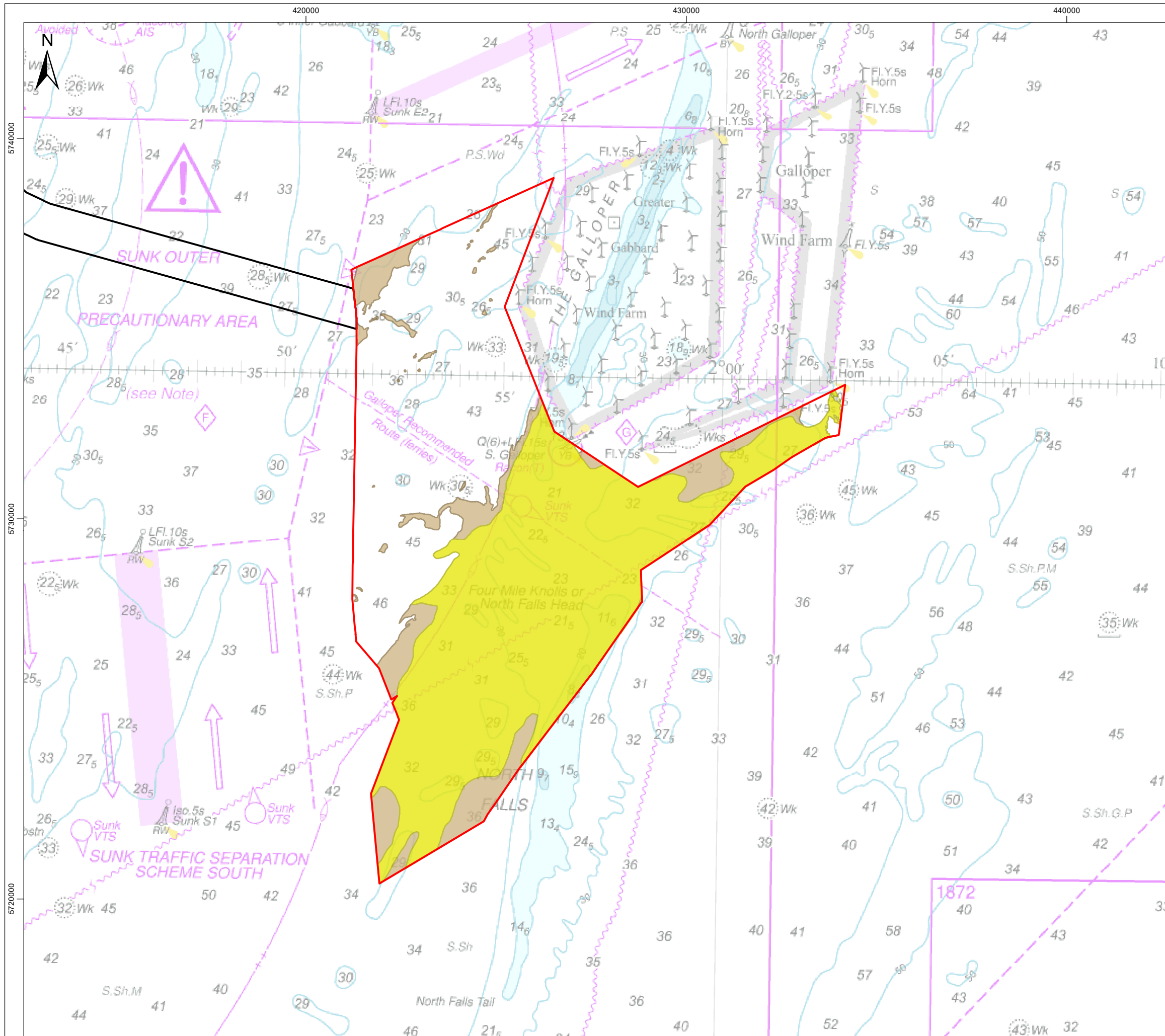
**Drawing Title**  
**Regional Sediment Transport Pathways in the Vicinity of North Falls (Kenyon and Cooper, 2005)**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0378</b>	Figure Number <b>8.11</b>
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Scale 1:300,000	Plot Size A3	Datum WGS84	Projection UTM31N
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- Legend**
- North Falls Array Area
  - Offshore Cable Corridor
- Seafloor Morphology**
- Sand Waves
  - Megaripples

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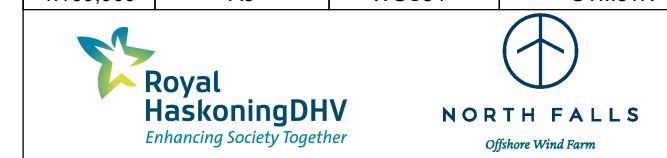
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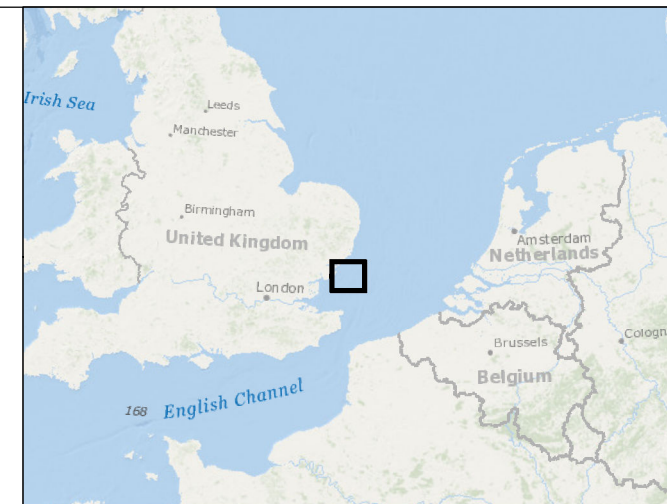
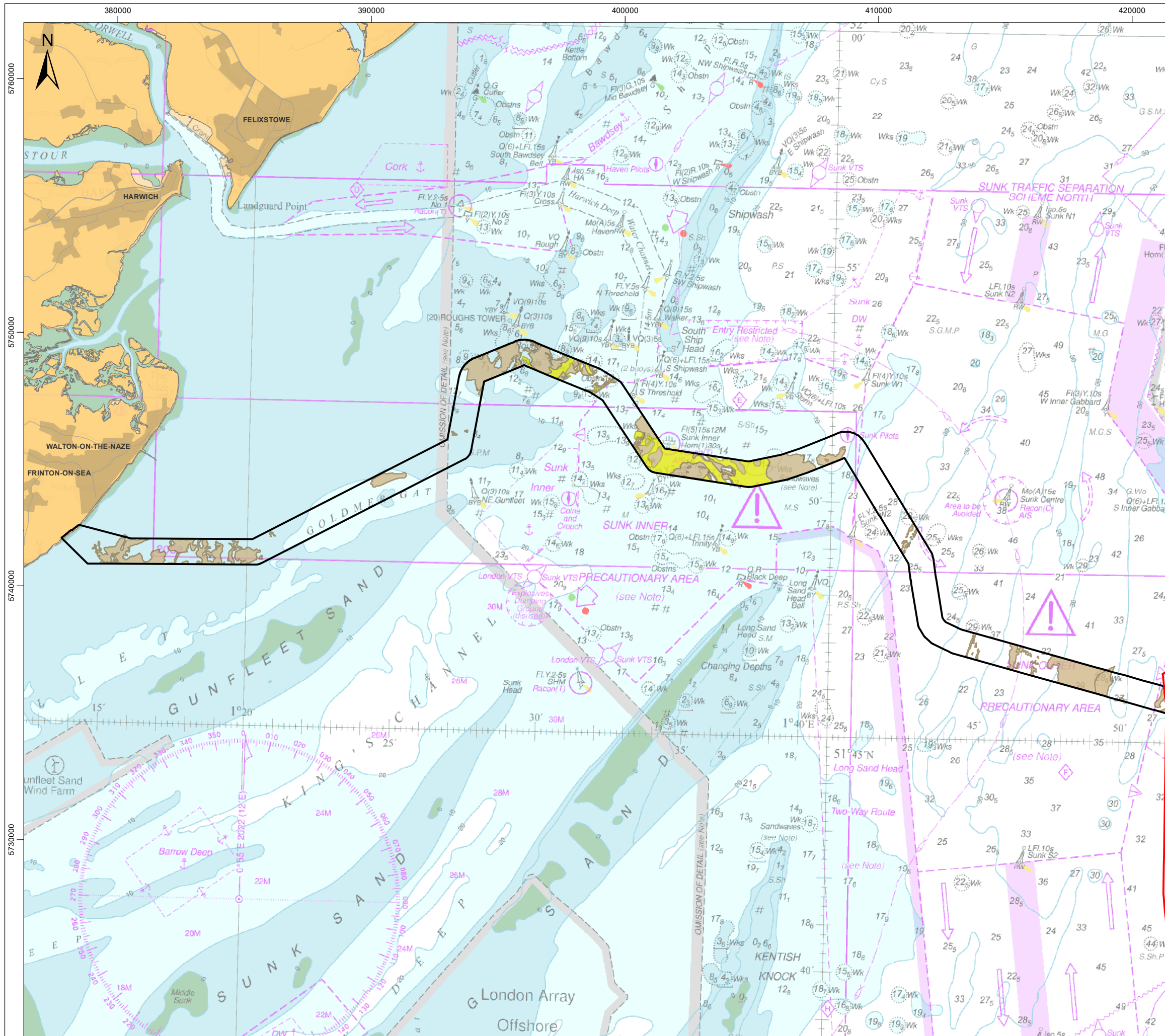
### Morphology of the Seabed across the Array Area

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0379</b>	<b>8.12</b>

Scale	Plot Size	Datum	Projection
1:100,000	A3	WGS84	UTM31N



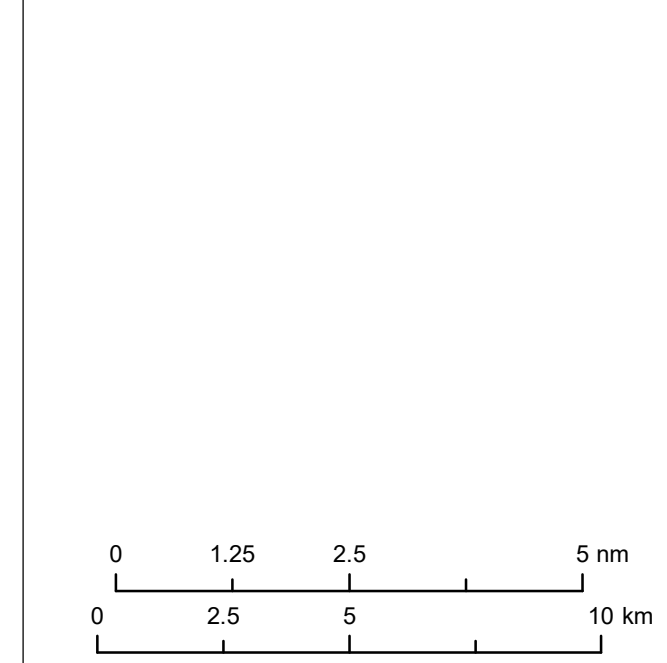


**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Seafloor Morphology**

- Sand Waves
- Megaripples



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Drawing Title

### Morphology of the Seabed across the Offshore Cable Corridor

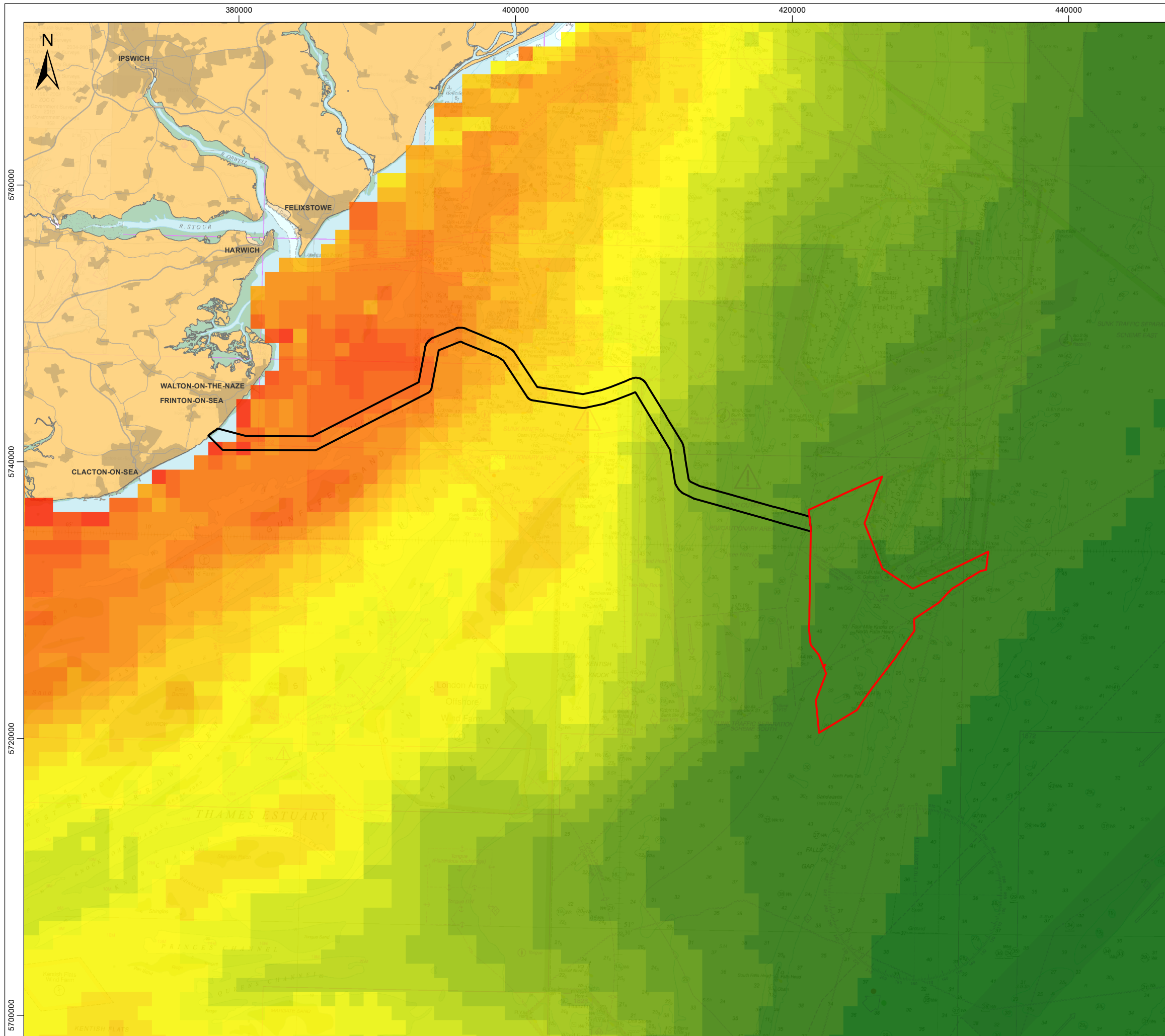
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01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0380</b>	<b>8.13</b>

Scale	Plot Size	Datum	Projection
1:150,000	A3	WGS84	UTM31N

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Offshore Wind Farm



**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Average SPM (mg/l) (1998 - 2015)**

	0.1 - 5		60.1 - 65
	5.1 - 10		65.1 - 70
	10.1 - 15		70.1 - 75
	15.1 - 20		75.1 - 80
	20.1 - 25		80.1 - 85
	25.1 - 30		85.1 - 90
	30.1 - 35		90.1 - 95
	35.1 - 40		95.1 - >100
	40.1 - 45		
	45.1 - 50		
	50.1 - 55		
	55.1 - 60		

0 2.5 5 10 nm  
0 5 10 20 km

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Drawing Title  
**Average Suspended Particulate Matter (SPM) 1998 - 2015**

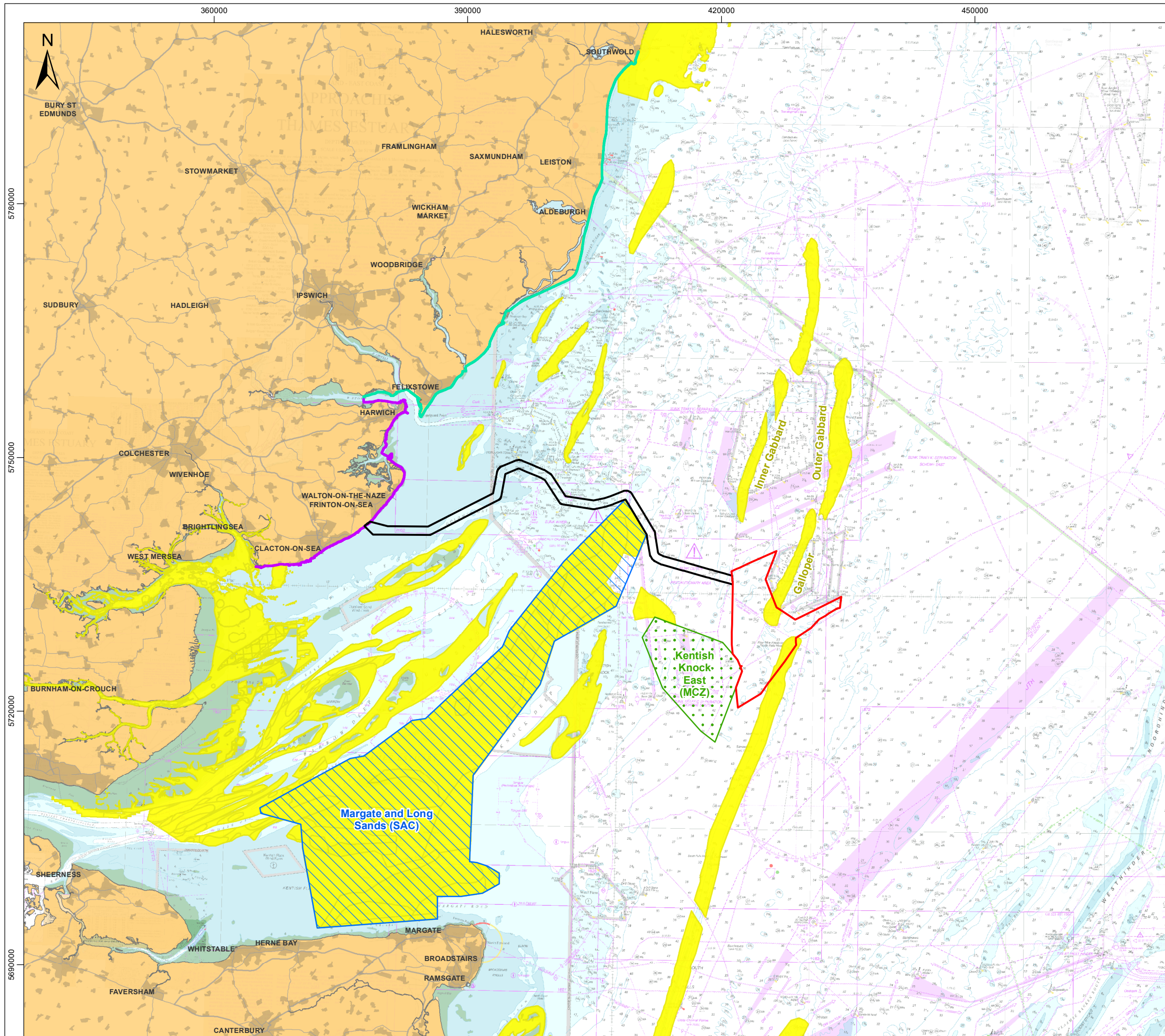
Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0381</b>	Figure Number <b>8.14</b>
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Scale 1:275,000	Plot Size A3	Datum WGS84	Projection UTM31N
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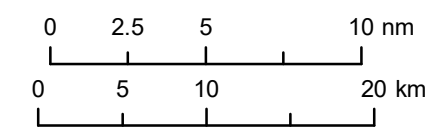


**Legend**

- North Falls Array Area
- Offshore Cable Corridor
- Special Area of Conservation (SAC)
- Marine Conservation Zone (MCZ)
- Annex I Sandbank

**Sensitive Coastline**

- Essex
- Suffolk



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Drawing Title  
**Receptor Groups for Marine Geology, Oceanography and Physical Processes**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number: **PB9244-RHD-ZZ-OF-DR-GS-0382**      Figure Number: **8.15**

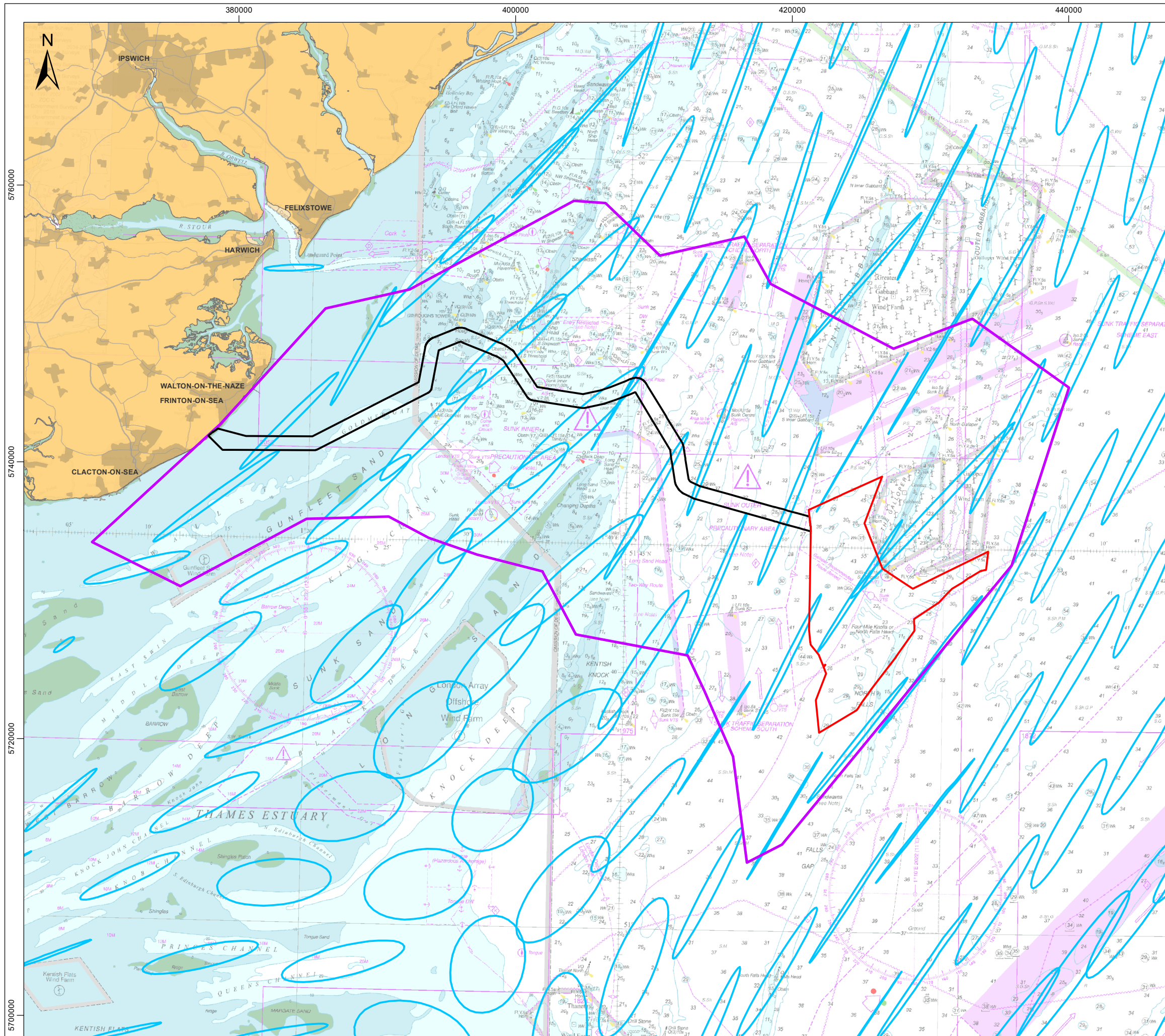
Scale: 1:450,000	Plot Size: A3	Datum: WGS84	Projection: UTM31N
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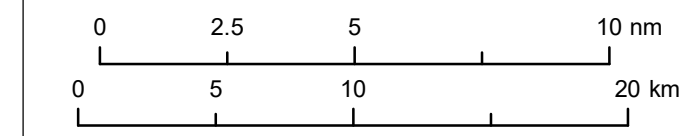
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NORTH FALLS  
Offshore Wind Farm



- Legend**
- North Falls Array Area
  - Offshore Cable Corridor
  - Spring Tidal Ellipse
  - Zone of Potential Tidal Current Influence



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Drawing Title

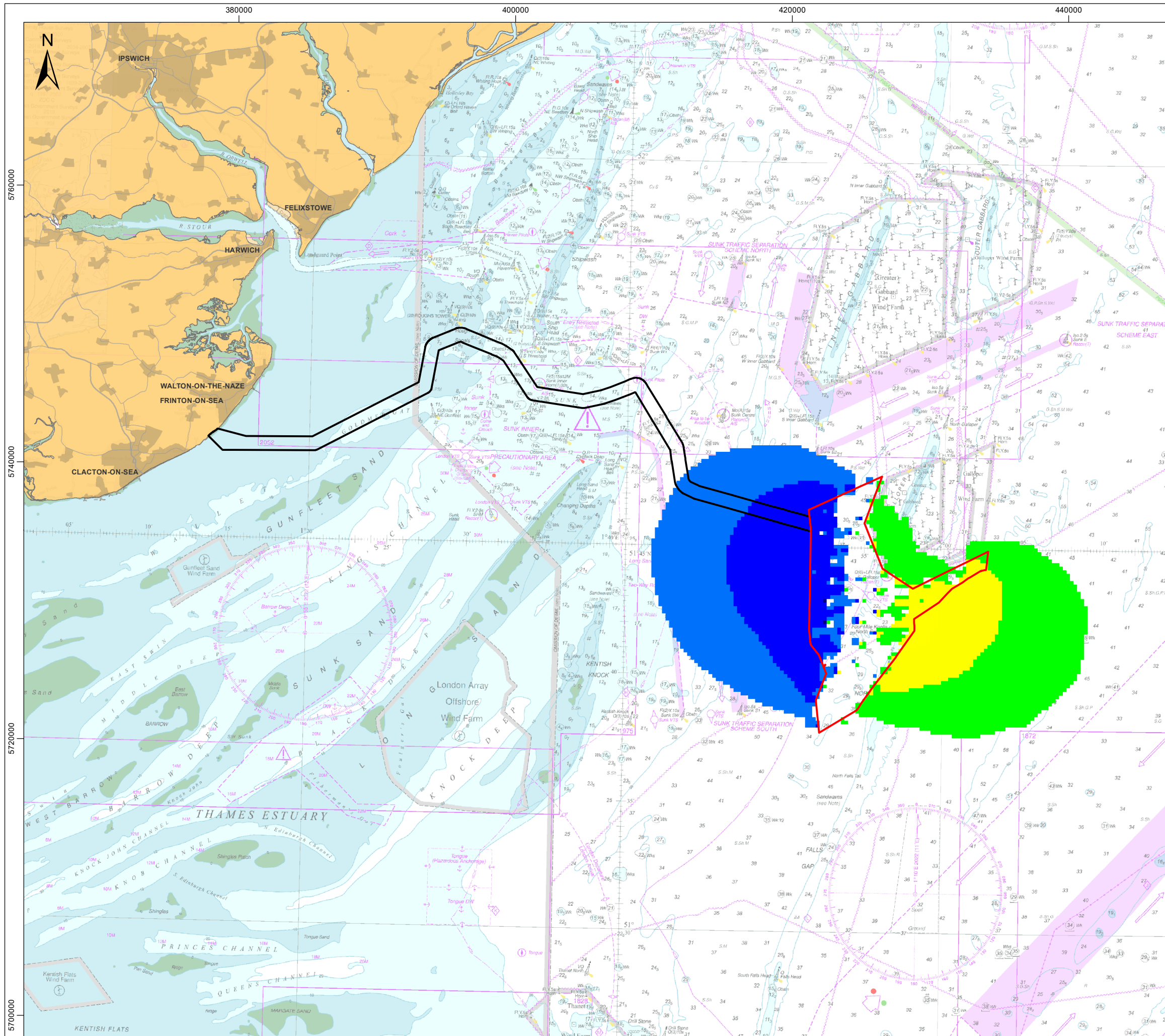
## Zone of Potential Influence

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0383</b>	Figure Number <b>8.16</b>
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Scale 1:275,000	Plot Size A3	Datum WGS84	Projection UTM31N
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**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**% Change in Significant Wave Height**

- Above 4.0
- 3.0 - 4.0
- 2.0 - 3.0
- 1.5 - 2.0
- 1.0 - 1.5
- 0.6 - 1.0
- 0.0 - 0.6
- 0.6 - 0.0
- 1.0 - -0.6
- 1.5 - -1.0
- 2.0 - -1.5
- 3.0 - -2.0
- 4.0 - -3.0
- Undefined Value

0 2.5 5 10 nm

0 5 10 20 km

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Drawing Title

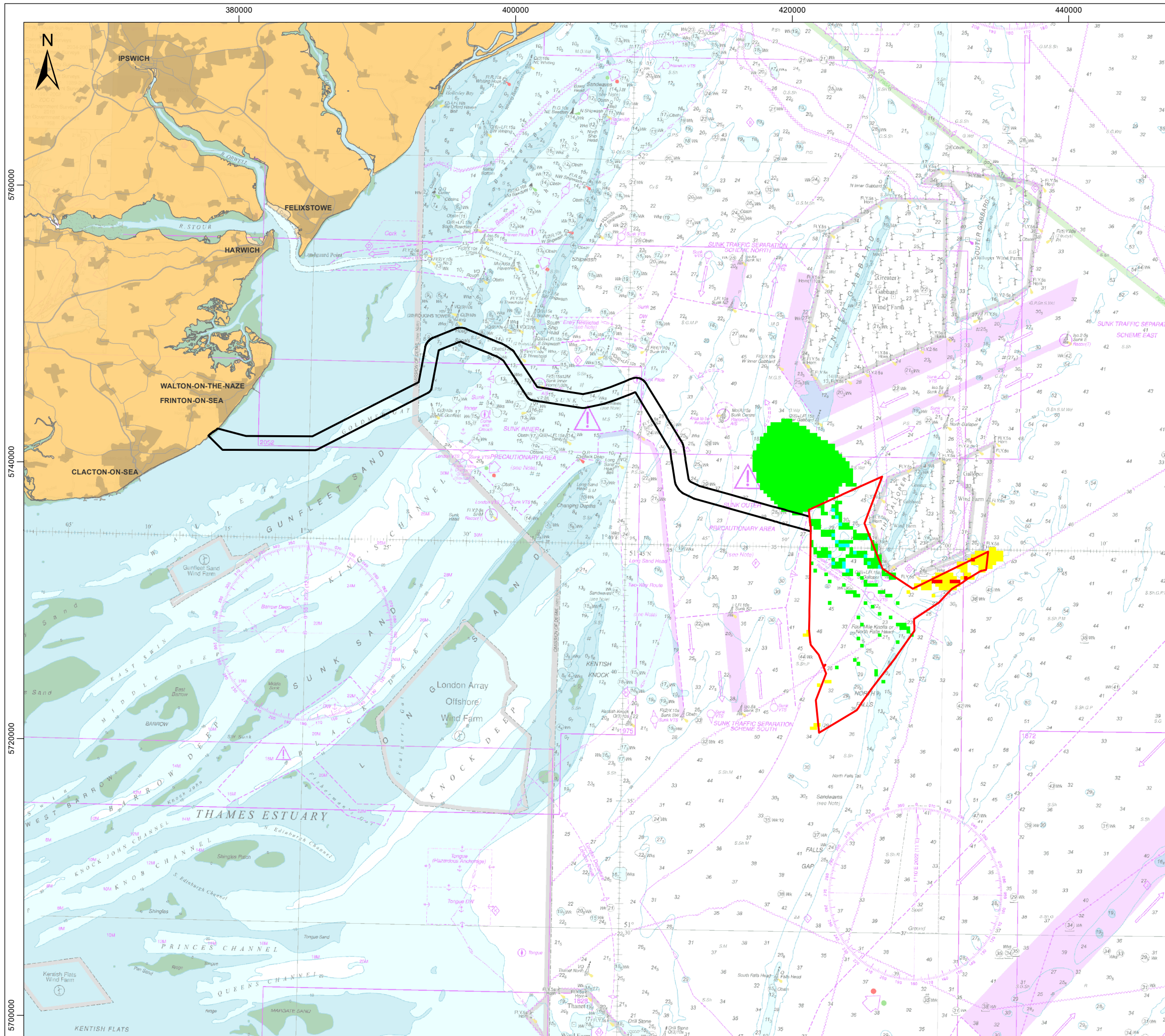
### Percentage Difference in Wave Height for a 1 in 1 year return period

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0384</b>	Figure Number <b>8.17</b>
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Scale 1:275,000	Plot Size A3	Datum WGS84	Projection UTM31N
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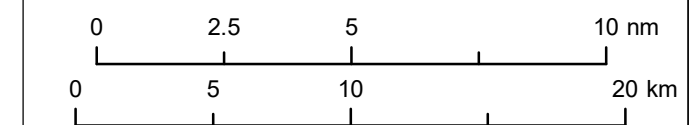


**Legend**

- North Falls Array Area
- Offshore Cable Corridor

**Change in Mean Wave Direction [deg]**

- Above 2.00
- 1.50 - 2.00
- 1.25 - 1.50
- 1.00 - 1.25
- 0.80 - 1.00
- 0.60 - 0.80
- 0.50 - 0.60
- 0.00 - 0.50
- 0.50 - 0.00
- 0.60 - -0.50
- 0.80 - -0.60
- 1.00 - -0.80
- 1.25 - -1.00
- 1.50 - -1.25
- 2.00 - -1.50
- Below -2.00
- Undefined Value



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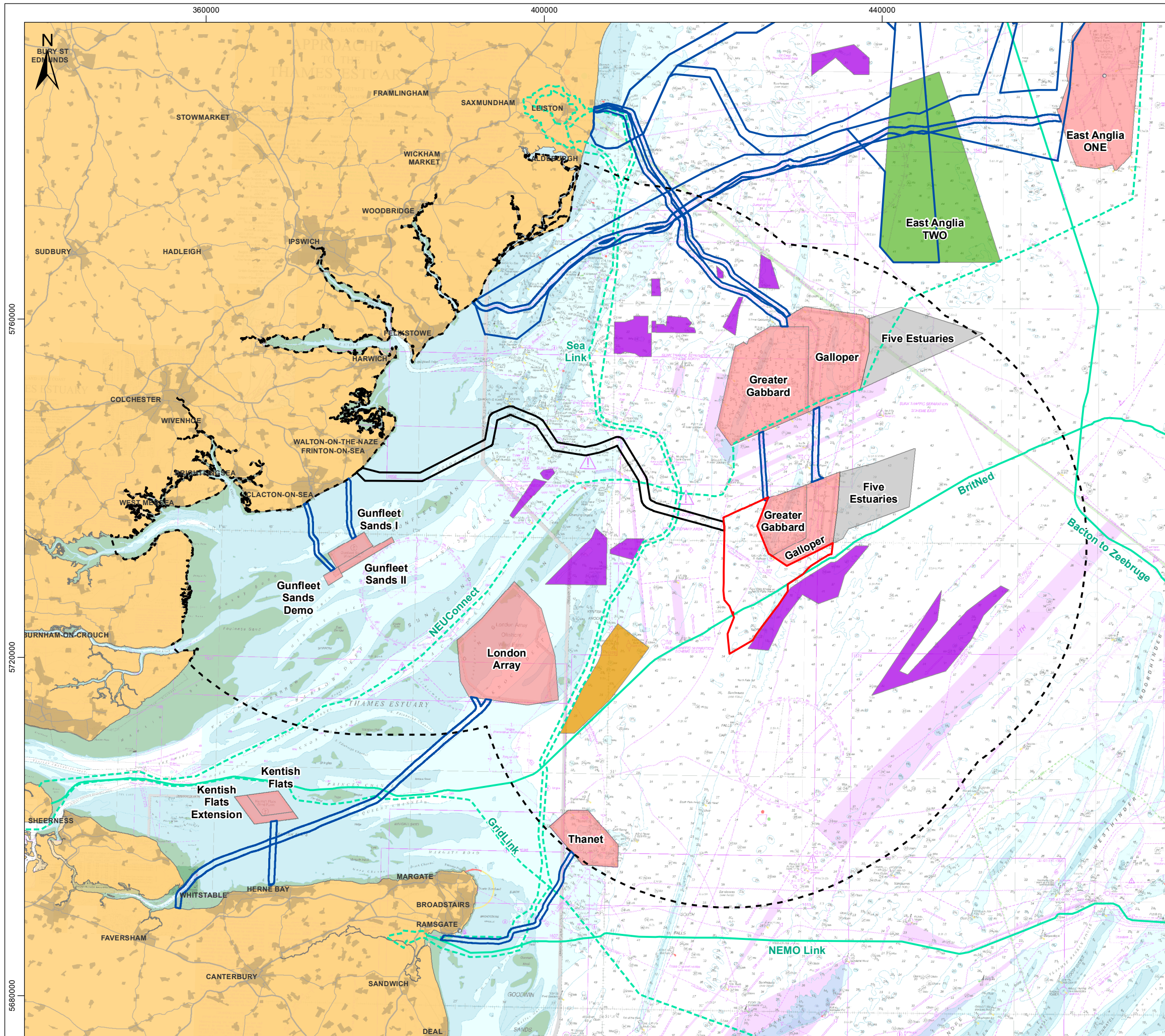
**Drawing Title**  
**Percentage Difference in Wave Direction for a 1 in 1 year return period**

Rev	Date	Remarks	Drwn	Chkd
01	22/11/2023	First issue	FC	DB

Drawing Number	Figure Number
<b>PB9244-RHD-ZZ-OF-DR-GS-0385</b>	<b>8.18</b>

Scale	Plot Size	Datum	Projection
1:275,000	A3	WGS84	UTM31N





**Legend**

- North Falls Array Area
- North Falls Offshore Cable Corridor
- North Falls Offshore Project Area 30km Buffer
- Offshore Wind Farm Cable Agreement

**Offshore Wind Farm Sites**

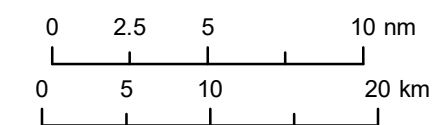
- Active/In Operation
- Consented
- In Planning

**Minerals Aggregates**

- Exploration and Option
- Production Agreement

**Interconnectors**

- Existing
- Proposed (Indicative)



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Drawing Title

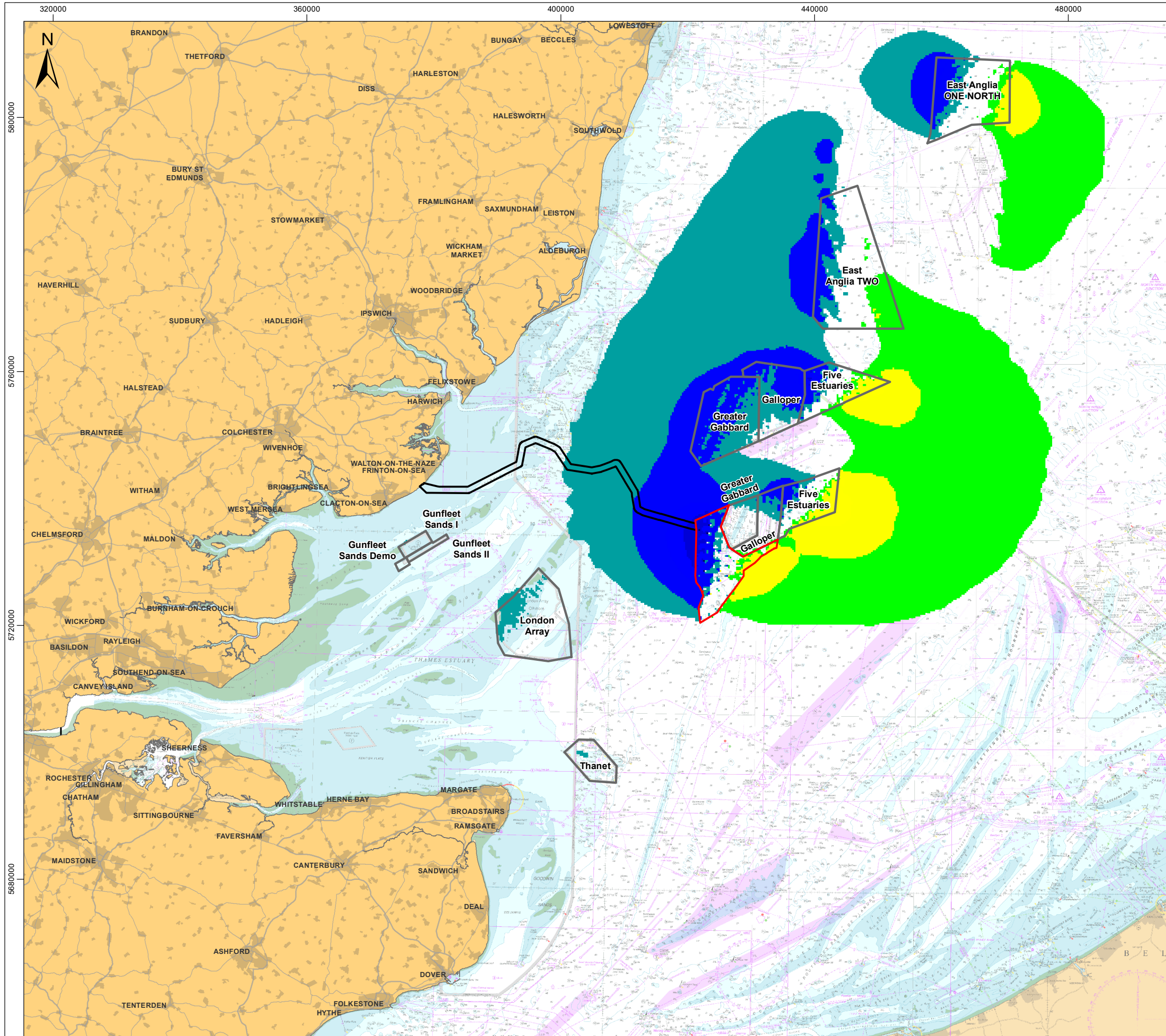
## Study Area for Screening of Plans and Projects for Cumulative Effects

Rev	Date	Remarks	Drwn	Chkd
01	26/03/2024	First issue	JH	SB

Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0527</b>	Figure Number <b>8.19</b>
Scale 1:450,000	Plot Size A3
Datum WGS84	Projection UTM31N

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**NORTH FALLS**  
Offshore Wind Farm



**Legend**

- North Falls Array Area
- Offshore Cable Corridor
- Offshore Wind Farm

**% Change in Significant Wave Height**

- Above 4.0
- 3.0 - 4.0
- 2.0 - 3.0
- 1.5 - 2.0
- 1.0 - 1.5
- 0.6 - 1.0
- 0.0 - 0.6
- 0.6 - 0.0
- 1.0 - -0.6
- 1.5 - -1.0
- 2.0 - -1.5
- 3.0 - -2.0
- 4.0 - -3.0
- Below -4.0
- Undefined Value

0 5 10 20 nm

0 10 20 40 km

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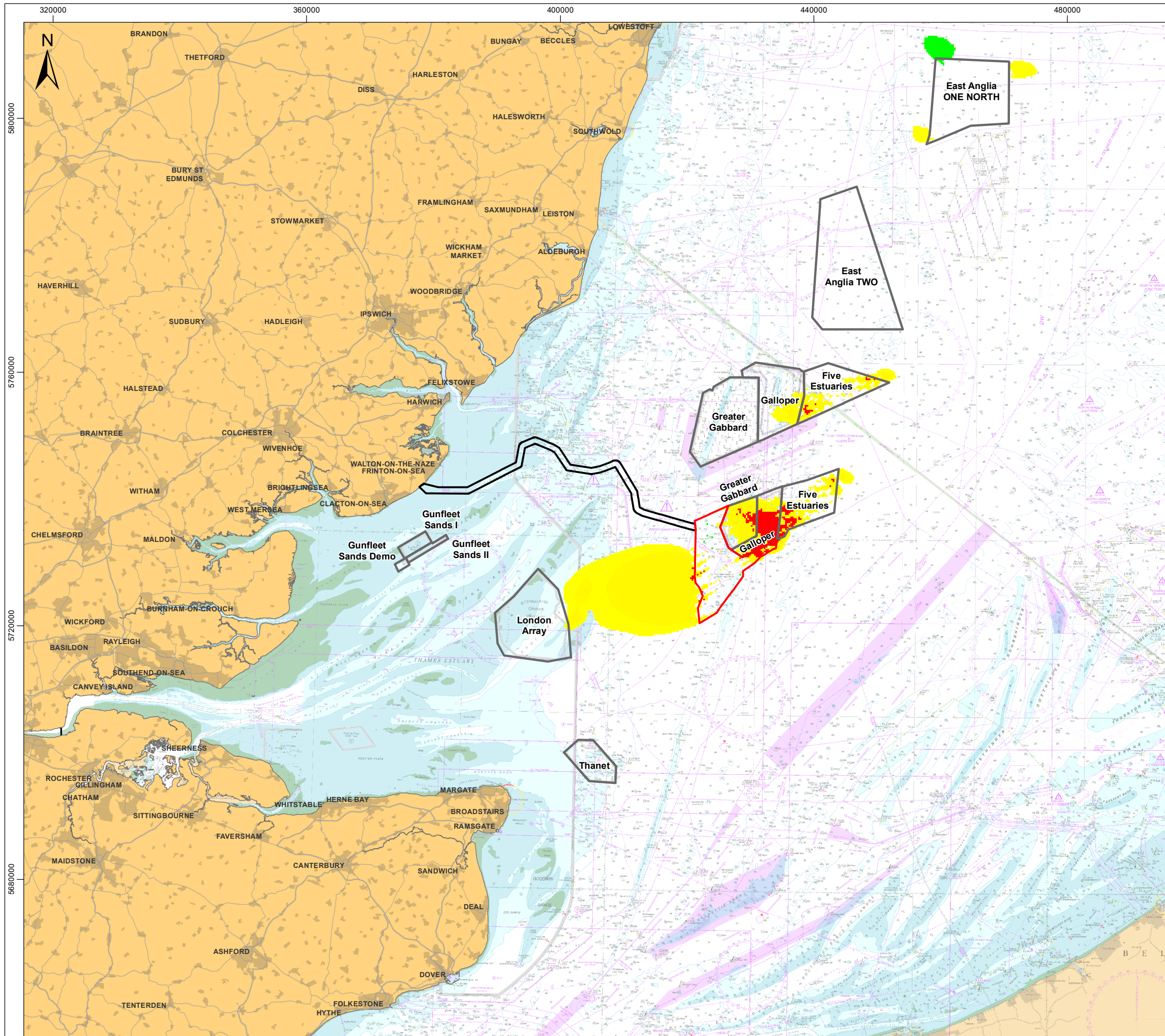
Drawing Title  
**Cumulative Percentage Difference in Wave Height for a 1 in 1 year return period**

Rev	Date	Remarks	Drwn	Chkd
01	26/03/2024	First issue	JH	DB

Drawing Number: **PB9244-RHD-ZZ-OF-DR-GS-0386**      Figure Number: **8.20**

Scale: 1:600,000      Plot Size: A3      Datum: WGS84      Projection: UTM31N





**Legend**

- North Falls Array Area
- Offshore Cable Corridor
- Offshore Wind Farm

**Change in Mean Wave Direction [deg]**

- Above 2.00
- 1.50 - 2.00
- 1.25 - 1.50
- 1.00 - 1.25
- 0.80 - 1.00
- 0.60 - 0.80
- 0.50 - 0.60
- 0.00 - 0.50
- 0.50 - 0.00
- 0.80 - -0.50
- 1.00 - -0.80
- 1.25 - -1.00
- 1.50 - -1.25
- 2.00 - -1.50
- Below -2.00
- Undefined Value

0 5 10 20 nm

0 10 20 40 km

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Drawing Title  
**Cumulative Percentage Difference in Wave Direction for a 1 in 1 year return period**

Rev	Date	Remarks	Drwn	Chkd
01	26/03/2024	First issue	JH	DB

Drawing Number <b>PB9244-RHD-ZZ-OF-DR-GS-0387</b>	Figure Number <b>8.21</b>
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Scale 1:600,000	Plot Size A3	Datum WGS84	Projection UTM31N
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**NORTH FALLS**

*Offshore Wind Farm*



**RWE**

## **HARNESSING THE POWER OF NORTH SEA WIND**

*North Falls Offshore Wind Farm Limited*

*A joint venture company owned equally by SSE Renewables and RWE.*

*To contact please email [contact@northfallsoffshore.com](mailto:contact@northfallsoffshore.com)*

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