

# IMMINGHAM EASTERN RO-RO TERMINAL



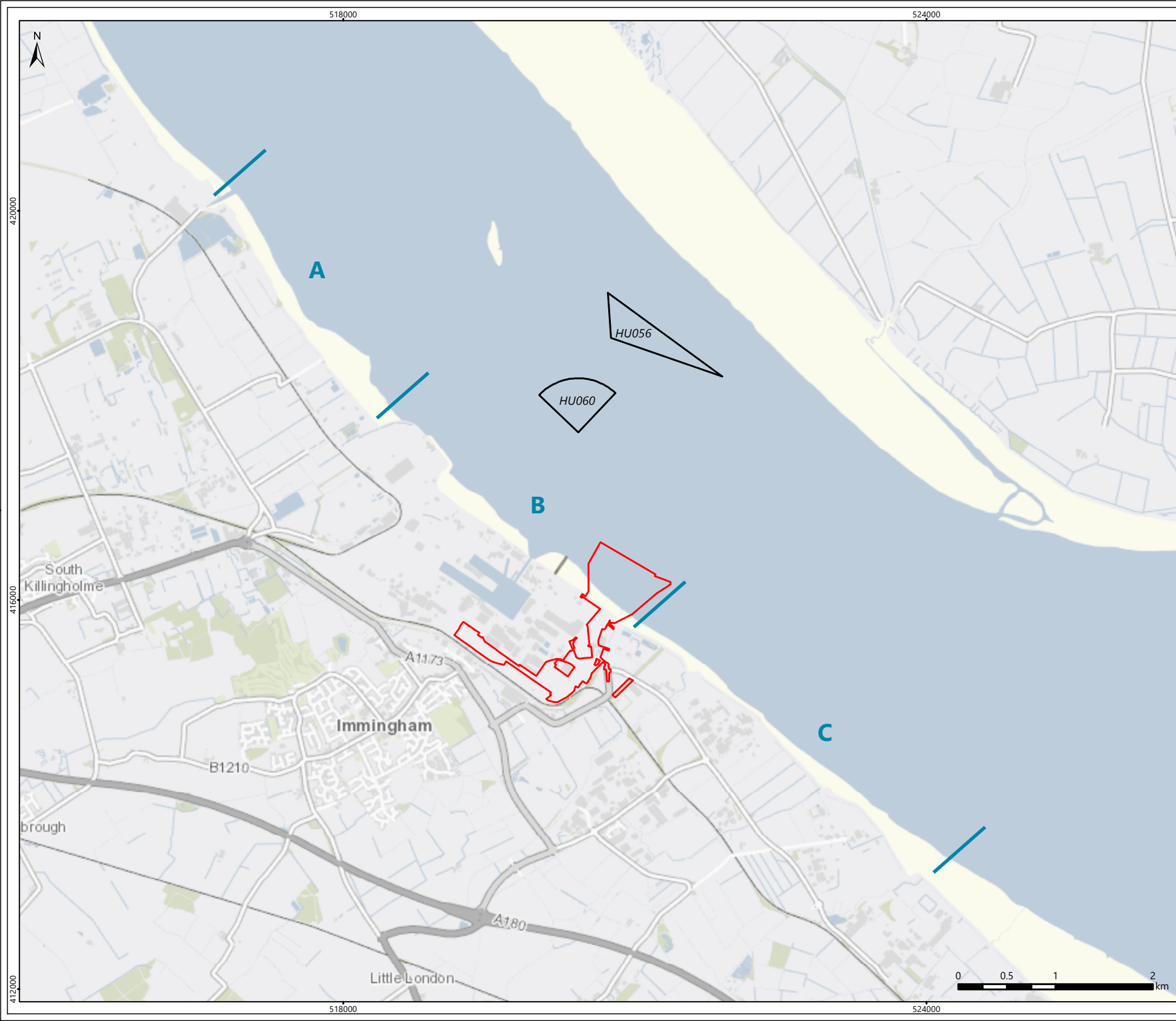
Environmental Statement: Volume 2  
Figures: Chapter 9: Nature Conservation and Marine Ecology  
Document Reference: 8.3.9

APFP Regulations 2009 – Regulation 5(2)(a) and 5(2)(e)  
PINS Reference – TR030007

February 2023

## Figures

8.3.9(a)	Figure 9.1	Pre and post consent monitoring locations of coastal waterbird surveys as part of the Immingham Outer Harbour development
8.3.9(b)	Figure 9.2	Project intertidal and subtidal benthic sampling stations
8.3.9(c)	Figure 9.3	Internationally and nationally designated conservation sites
8.3.9(d)	Figure 9.4	Spawning and nursery grounds of commercial fish species
8.3.9(e)	Figure 9.5	TraC fish monitoring stations in the vicinity of the proposed development
8.3.9(f)	Figure 9.6	Annual grey seal pup counts at Donna Nook (Source, SCOS, 2021)
8.3.9(g)	Figure 9.7	Aerial counts of grey seals at Donna Nook (Source, SCOS, 2021)
8.3.9(h)	Figure 9.8	Harbour porpoise sightings in the Humber Estuary since 2000 (Source Sea Watch Foundation, 2021)
8.3.9(i)	Figure 9.9	The 5-year mean peak number of birds in Sector B during different months
8.3.9(j)	Figure 9.10	The distribution of coastal waterbirds within Sector B
8.3.9(k)	Figure 9.11	Construction activity associated with capital dredging and potential disturbance zone buffer
8.3.9(l)	Figure 9.12	Construction activity associated with the outer finger pier (and connecting pontoon infrastructure) and potential disturbance zone buffers
8.3.9(m)	Figure 9.13	Construction activity associated with the approach jetty and inner pier and potential disturbance zone buffer



- Legend**
- Proposed Application Site
  - Disposal Site
  - ABP IOH Bird Survey Sectors

© ABPmer, All rights reserved, 2022. Contains OS data © Crown Copyright and database right 2020. © Cefas, 2022. Contains public sector information licensed under the Open Government Licence v3.0.

Date	By	QA
09/12/2022	OJR	CRO
Projection	British National Grid	
Scale (A4)	1:50,000	
Project no.	5035	

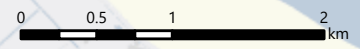


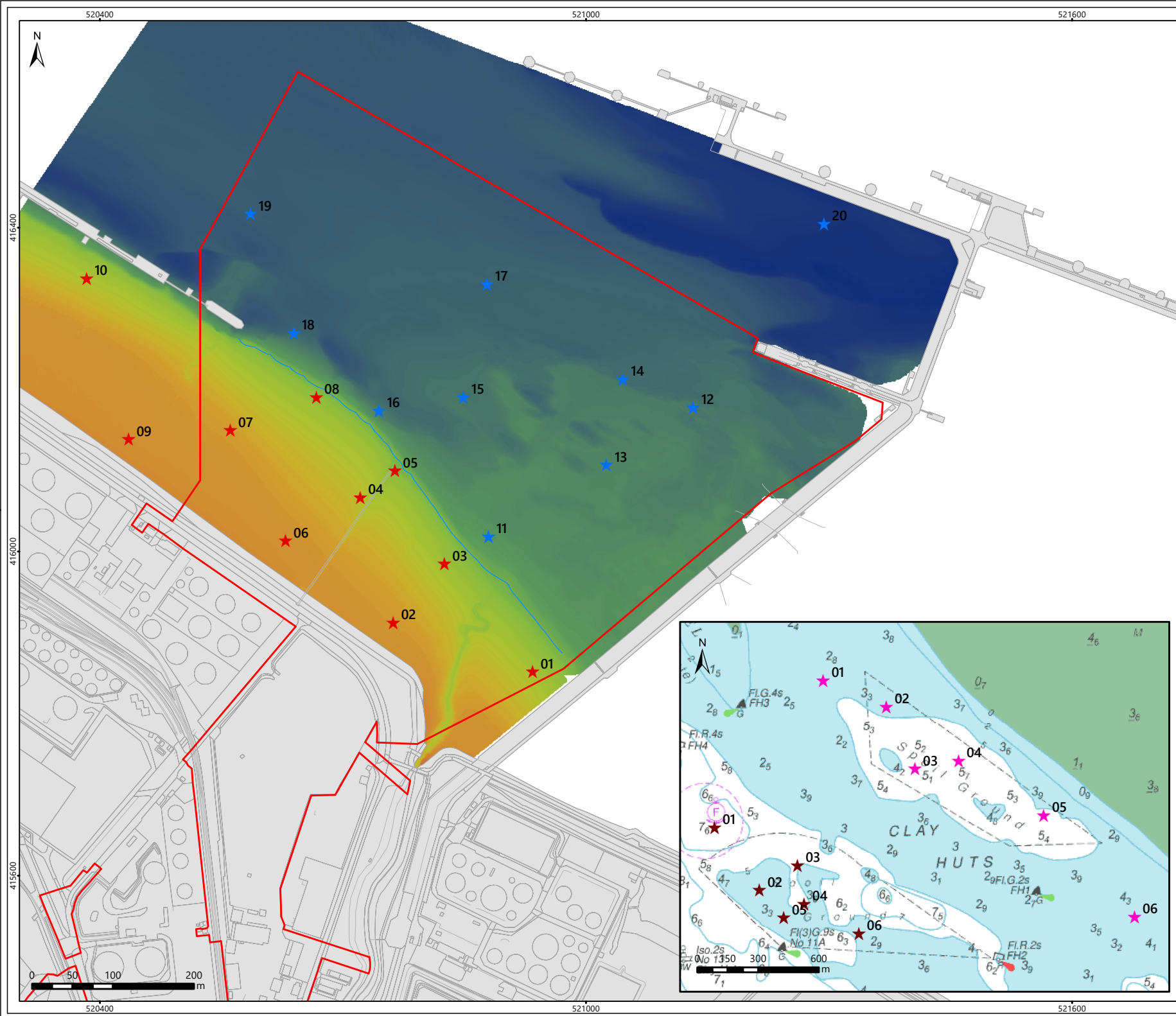
Fig9.1\_Bird\_Survey\_Sectors\_A4.mxd



**IMMINGHAM EASTERN  
RO-RO TERMINAL  
PRE AND POST CONSENT MONITORING  
LOCATIONS OF COASTAL WATERBIRD SURVEYS  
AS PART OF THE IMMINGHAM OUTER  
HARBOUR DEVELOPMENT**

**Figure 9.1**





**Legend**

- Proposed Application Site
- Mean Low Water Springs

**Benthic Sampling Stations**

- HU056
- HU060
- Intertidal
- Subtidal

**Elevation m(CD)**

21.3  
20  
16  
12  
8  
4  
0  
-4  
-8

© ABPmer, All rights reserved, 2022. © Crown copyright and database rights 2021. Ordnance Survey 0100031673. © Crown Copyright and/or database rights. Reproduced by permission of The Keeper of Public Records and the UK Hydrographic Office (www.gov.uk/ukho). Not to be used for navigation.

Date	By	QA
09/12/2022	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:24,000	
<b>Project no.</b>	5035	

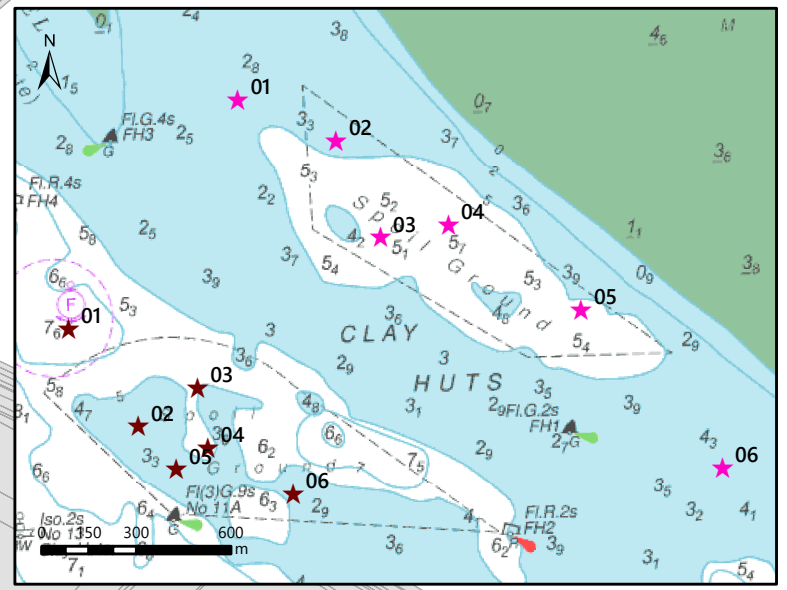
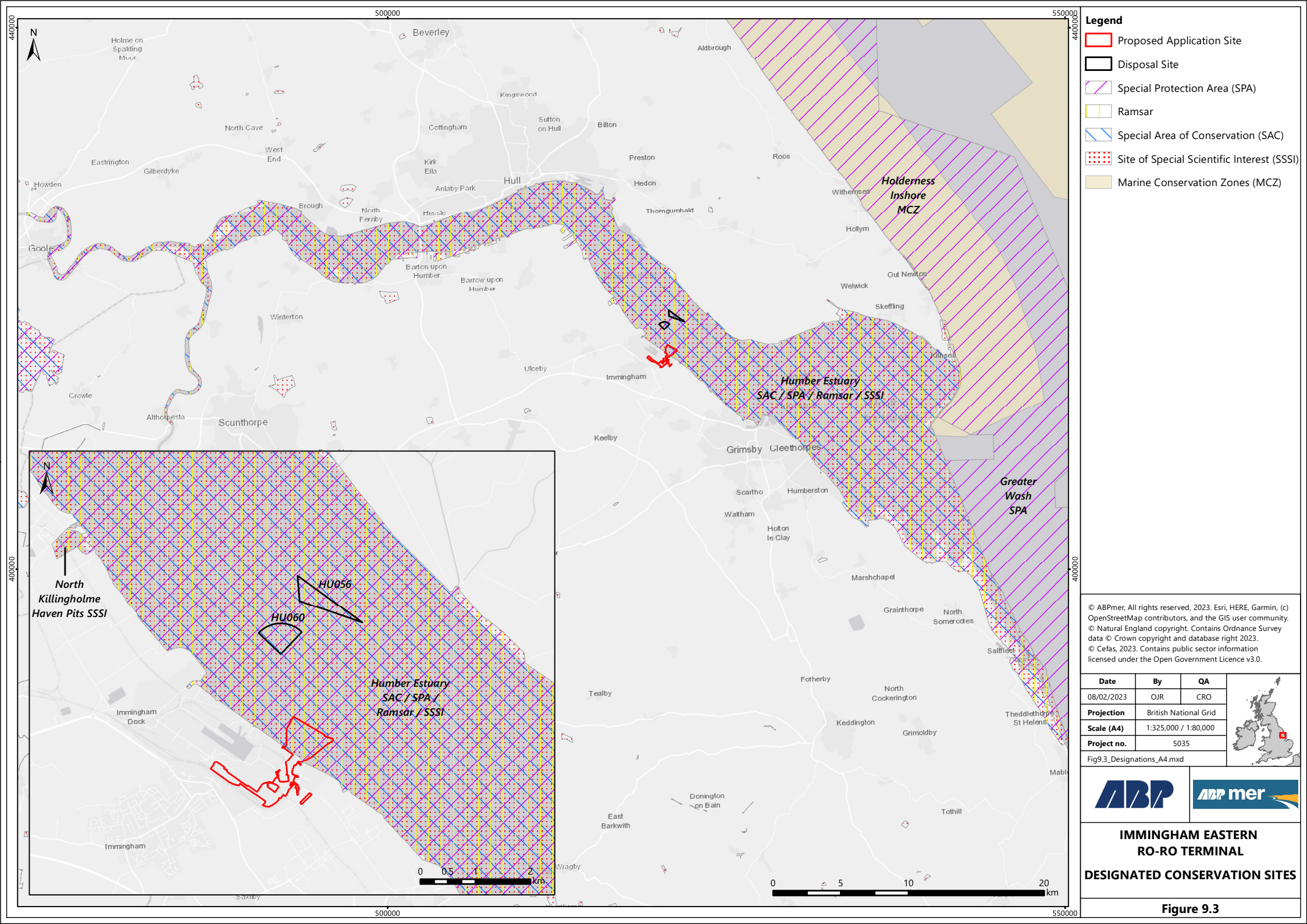


Fig9.2\_Benthic\_Sampling\_A4.mxd

**IMMINGHAM EASTERN  
RO-RO TERMINAL  
BENTHIC SAMPLING STATIONS**

**Figure 9.2**



- Legend**
- Proposed Application Site
  - Disposal Site
  - Special Protection Area (SPA)
  - Ramsar
  - Special Area of Conservation (SAC)
  - Site of Special Scientific Interest (SSSI)
  - Marine Conservation Zones (MCZ)

© ABPmer, All rights reserved, 2023. Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community.  
 © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2023.  
 © Cefas, 2023. Contains public sector information licensed under the Open Government Licence v3.0.

Date	By	QA
08/02/2023	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:325,000 / 1:80,000	
<b>Project no.</b>	5035	

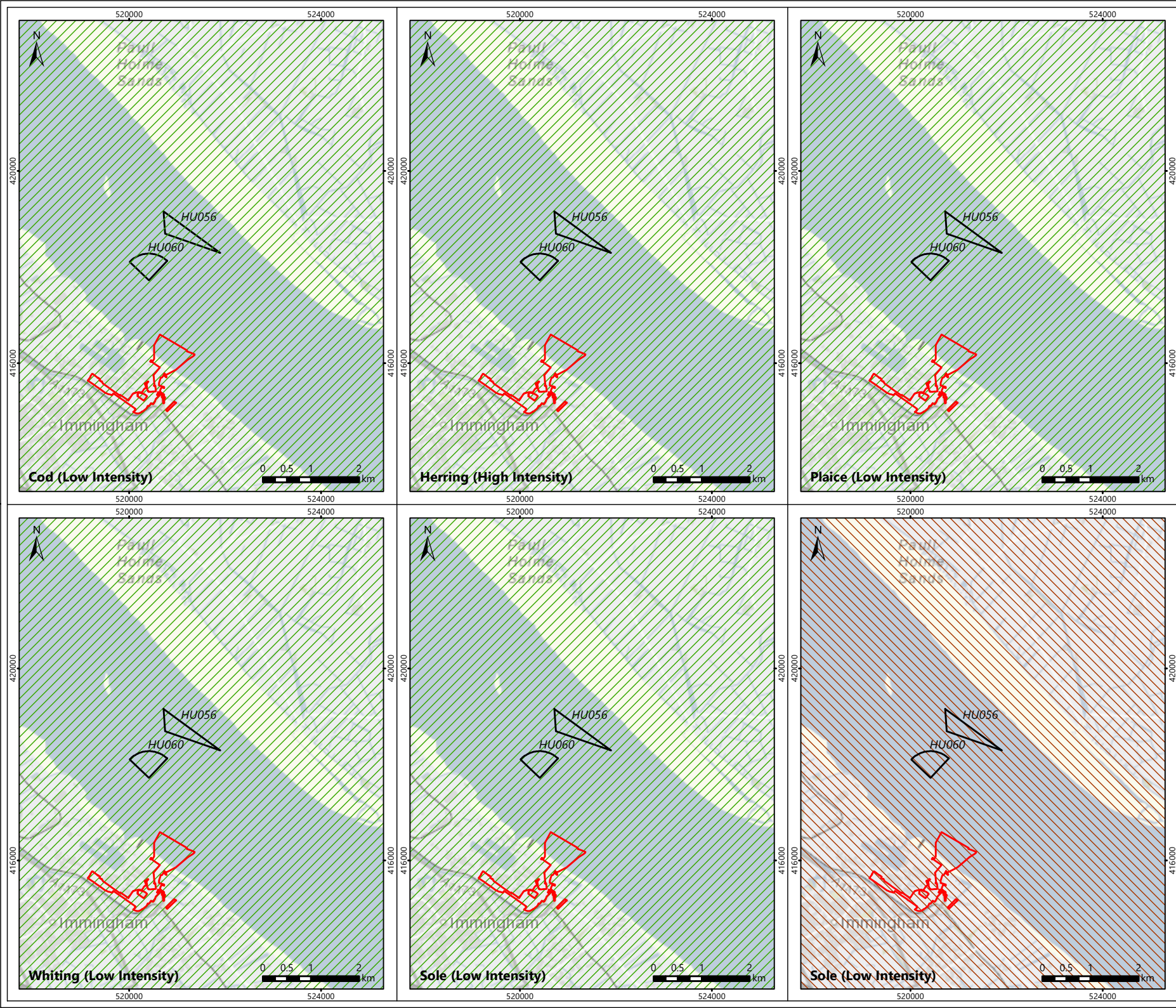


Fig9.3\_Designations\_A4.mxd



**IMMINGHAM EASTERN  
RO-RO TERMINAL  
DESIGNATED CONSERVATION SITES**

**Figure 9.3**



- Legend**
- Proposed Application Site
  - Nursery Grounds
  - Spawning Grounds
  - Disposal Site

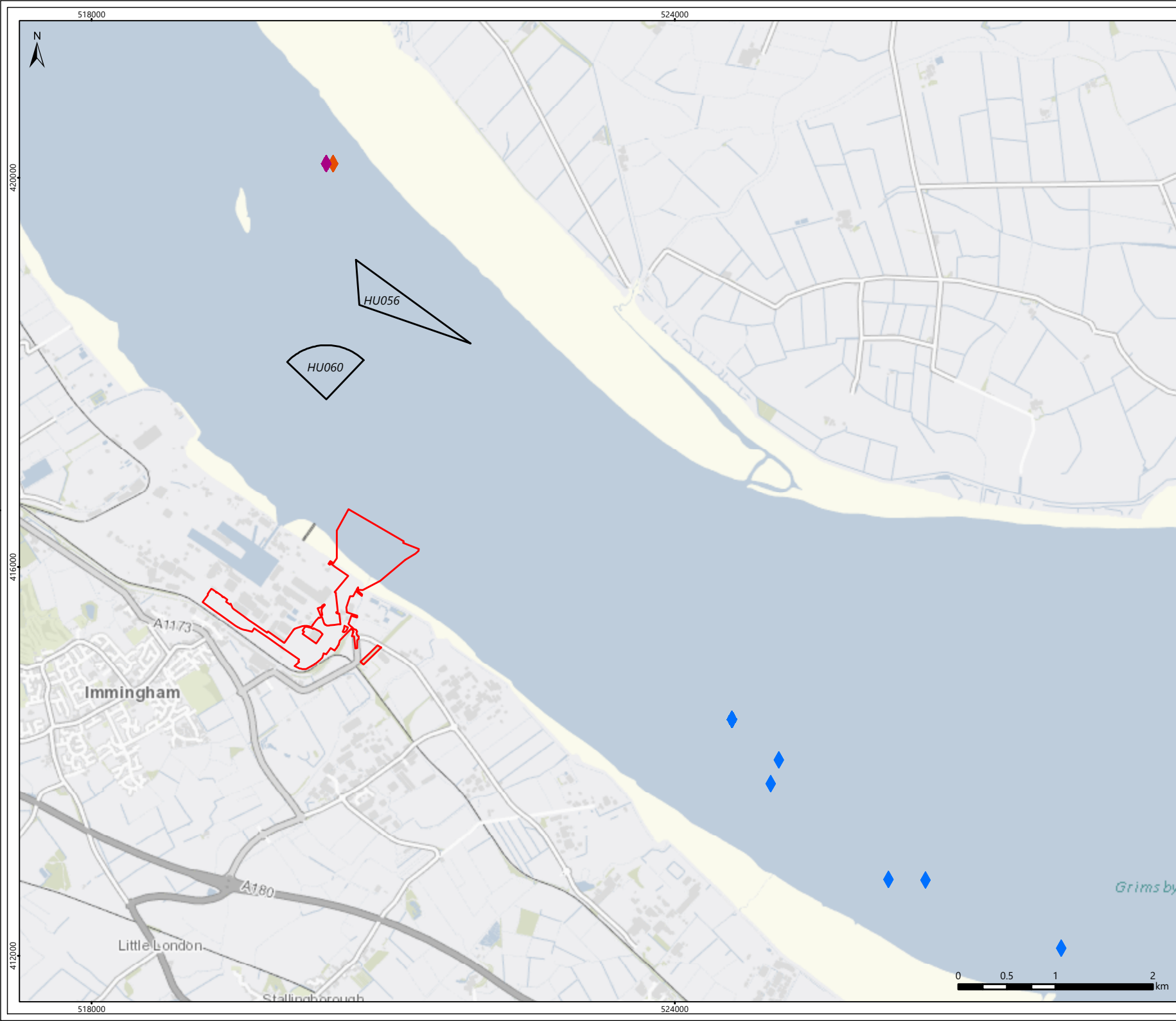
© ABPmer, All rights reserved, 2022. Contains OS data © Crown Copyright and database right 2020.  
 © Cefas. Contains public sector information licensed under the Open Government Licence v3.0.

Date	By	QA
09/12/2022	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:100,000	
<b>Project no.</b>	5035	



**IMMINGHAM EASTERN  
 RO-RO TERMINAL  
 SPAWNING AND NURSERY GROUNDS  
 OF COMMERCIAL FISH SPECIES**

**Figure 9.4**



- Legend**
- Proposed Application Site
  - Disposal Site
  - ◆ Burcom Otter Trawl
  - ◆ Foulholme Sands Beam Trawl
  - ◆ Foulholme Sands Seine Net

© ABPmer, All rights reserved, 2022. Contains OS data © Crown Copyright and database right 2020. © Environment Agency copyright and/or database right 2016. All rights reserved. © Cefas, 2022. Contains public sector information licensed under the Open Government Licence v3.0.

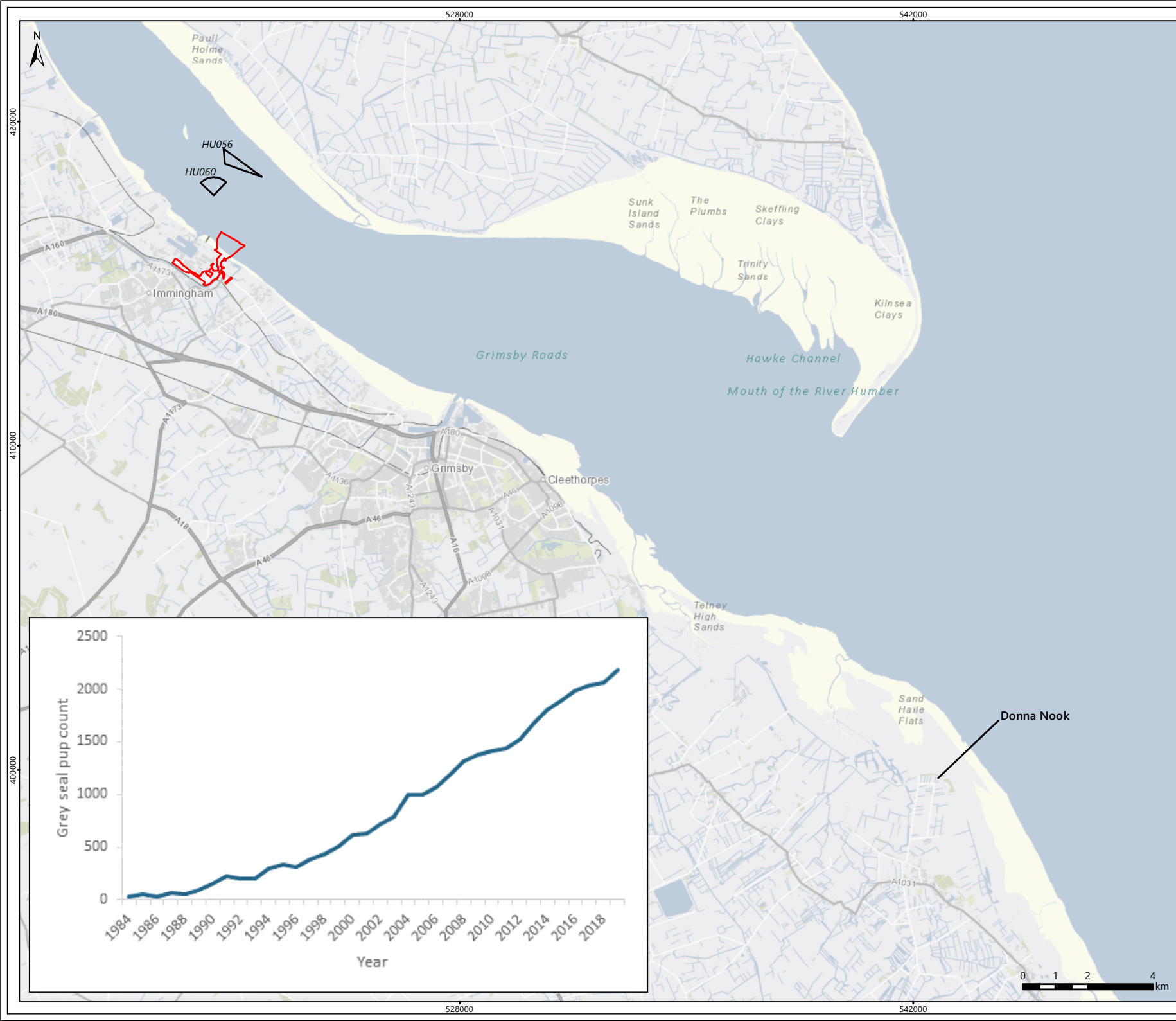
Date	By	QA
09/12/2022	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:50,000	
<b>Project no.</b>	5035	



**IMMINGHAM EASTERN  
RO-RO TERMINAL**

**TraC FISH MONITORING STATIONS**

**Figure 9.5**



- Legend**
- Proposed Application Site
  - Disposal Site

© ABPmer, All rights reserved, 2023. Contains OS data © Crown Copyright and database right 2020. © Cefas, 2022. Contains public sector information licensed under the Open Government Licence v3.0. SCOS, 2021.

<b>Date</b>	<b>By</b>	<b>QA</b>
07/02/2023	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:150,000	
<b>Project no.</b>	5035	

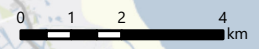
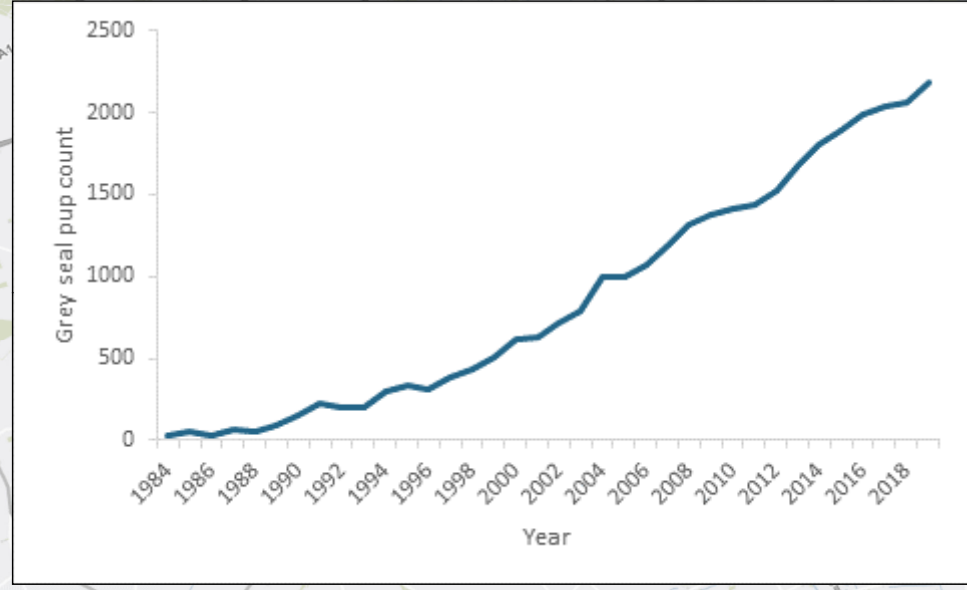


Fig9.6\_Grey\_Seal\_Count\_A4.mxd

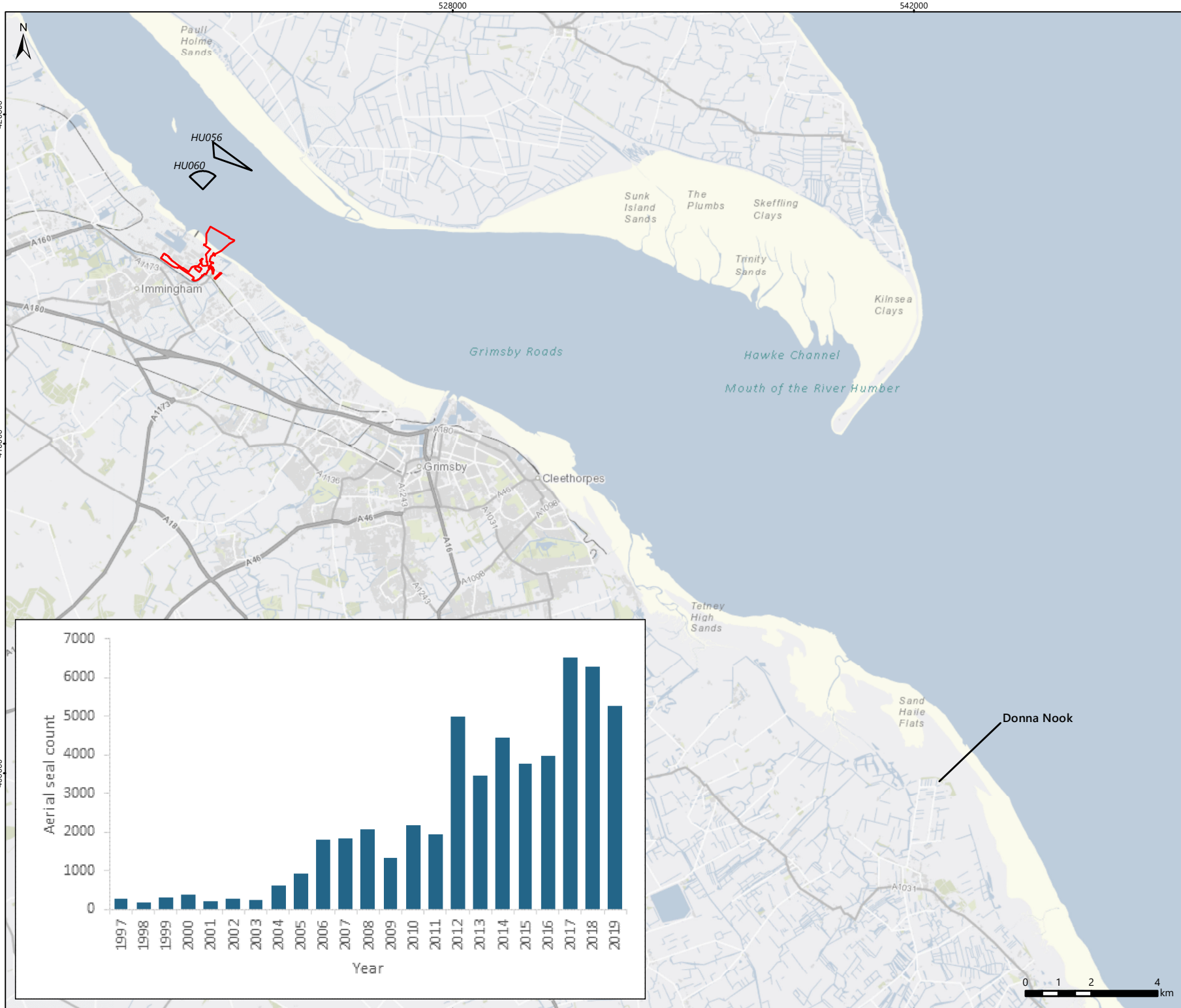


**IMMINGHAM EASTERN  
RO-RO TERMINAL  
ANNUAL GREY SEAL PUP  
COUNTS AT DONNA NOOK**

**Figure 9.6**







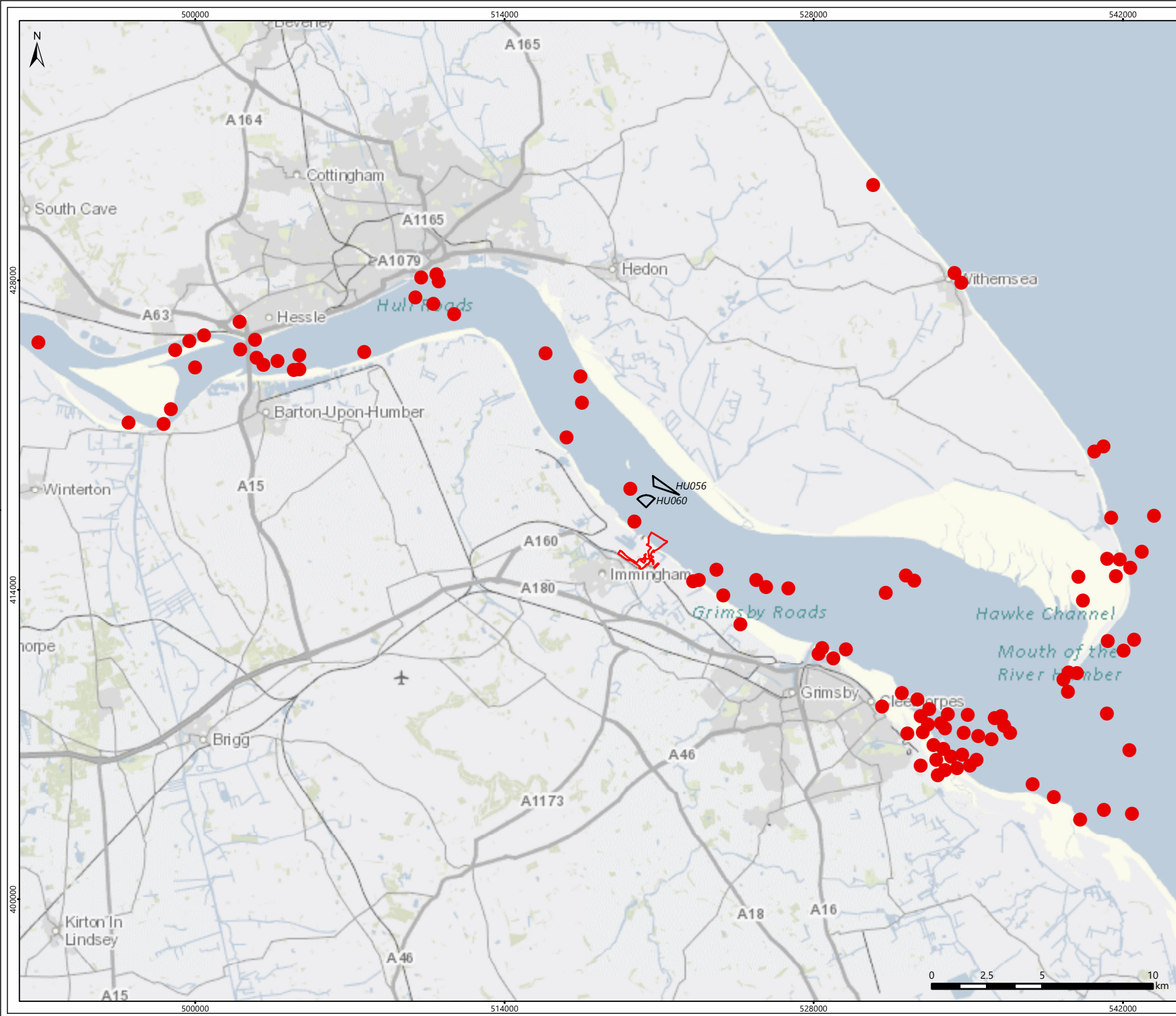
© ABPmer, All rights reserved, 2023. Contains OS data © Crown Copyright and database right 2020. © Cefas, 2022. Contains public sector information licensed under the Open Government Licence v3.0. SCOS, 2021.

Date	By	QA
07/02/2023	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:150,000	
<b>Project no.</b>	5035	



**IMMINGHAM EASTERN  
RO-RO TERMINAL  
AERIAL COUNTS OF GREY  
SEALS AT DONNA NOOK**

**Figure 9.7**



- Legend**
- Proposed Application Site
  - Disposal Site
  - Harbour porpoise sightings in the Humber Estuary since 2000

© ABPmer, All rights reserved, 2023. Contains OS data © Crown Copyright and database right 2020. Source Sea Watch Foundation, 2021. © Cefas, 2022. Contains public sector information licensed under the Open Government Licence v3.0.

<b>Date</b>	<b>By</b>	<b>QA</b>
07/02/2023	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:220,000	
<b>Project no.</b>	5035	



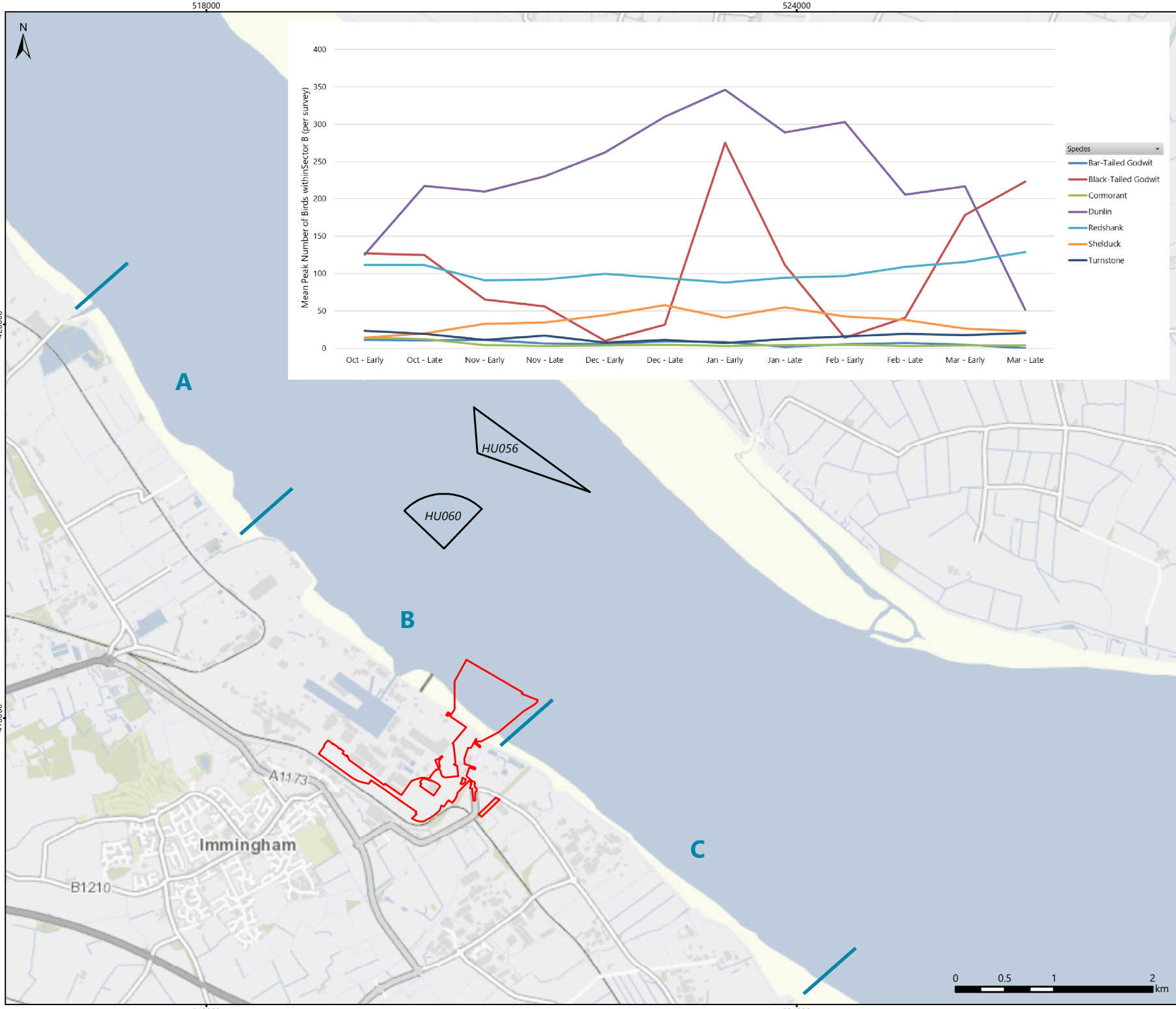
Fig9.8\_Harbour\_porpoise\_sightings\_A4.mxd



**IMMINGHAM EASTERN  
RO-RO TERMINAL**

**HARBOUR PORPOISE SIGHTINGS IN  
THE HUMBER ESTUARY SINCE 2000**

**Figure 9.8**



- Legend**
- Proposed Application Site
  - Disposal Site
  - ABP IOH Bird Survey Sectors

© ABPmer, All rights reserved, 2022. Contains OS data © Crown Copyright and database right 2020. © Cefas, 2022. Contains public sector information licensed under the Open Government Licence v3.0.

Date	By	QA
09/12/2022	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:50,000	
<b>Project no.</b>	5035	



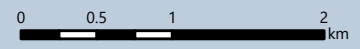
Fig9.9\_Bird\_Survey\_Sector\_B\_A4.mxd

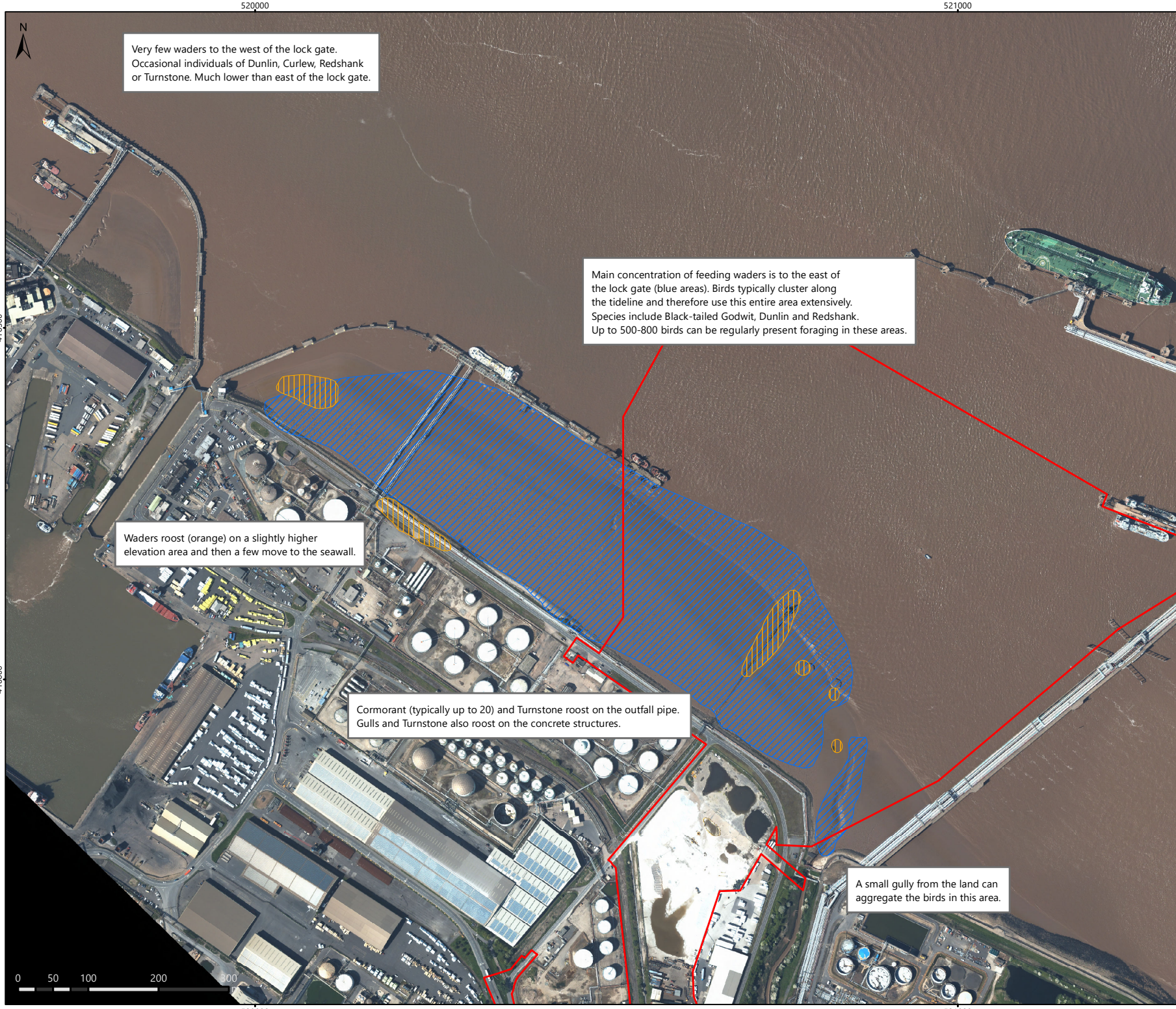


**IMMINGHAM EASTERN  
RO-RO TERMINAL**

**THE 5-YEAR MEAN PEAK NUMBER OF BIRDS  
IN SECTOR B DURING DIFFERENT MONTHS**

**Figure 9.9**





Very few waders to the west of the lock gate.  
Occasional individuals of Dunlin, Curlew, Redshank or Turnstone. Much lower than east of the lock gate.

Main concentration of feeding waders is to the east of the lock gate (blue areas). Birds typically cluster along the tideline and therefore use this entire area extensively. Species include Black-tailed Godwit, Dunlin and Redshank. Up to 500-800 birds can be regularly present foraging in these areas.

Waders roost (orange) on a slightly higher elevation area and then a few move to the seawall.

Cormorant (typically up to 20) and Turnstone roost on the outfall pipe. Gulls and Turnstone also roost on the concrete structures.

A small gully from the land can aggregate the birds in this area.

- Legend**
- Proposed Application Site
  - Roosting
  - Feeding

© ABPmer, All rights reserved, 2022.  
© Environment Agency copyright and/or database right 2021. All rights reserved.

<b>Date</b>	<b>By</b>	<b>QA</b>
09/12/2022	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:7,000	
<b>Project no.</b>	5035	



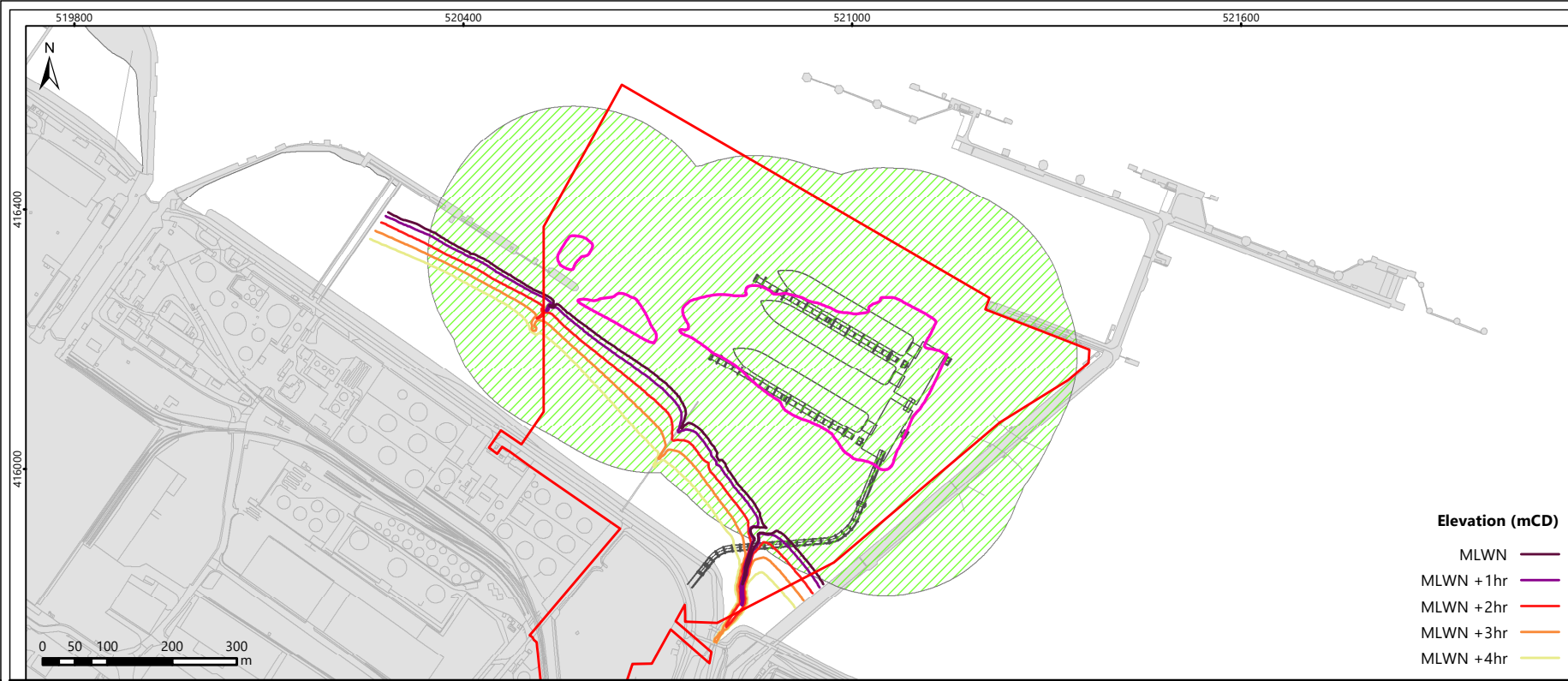
Fig9.10\_Coastal\_Waterbirds\_A4.mxd



**IMMINGHAM EASTERN  
RO-RO TERMINAL**

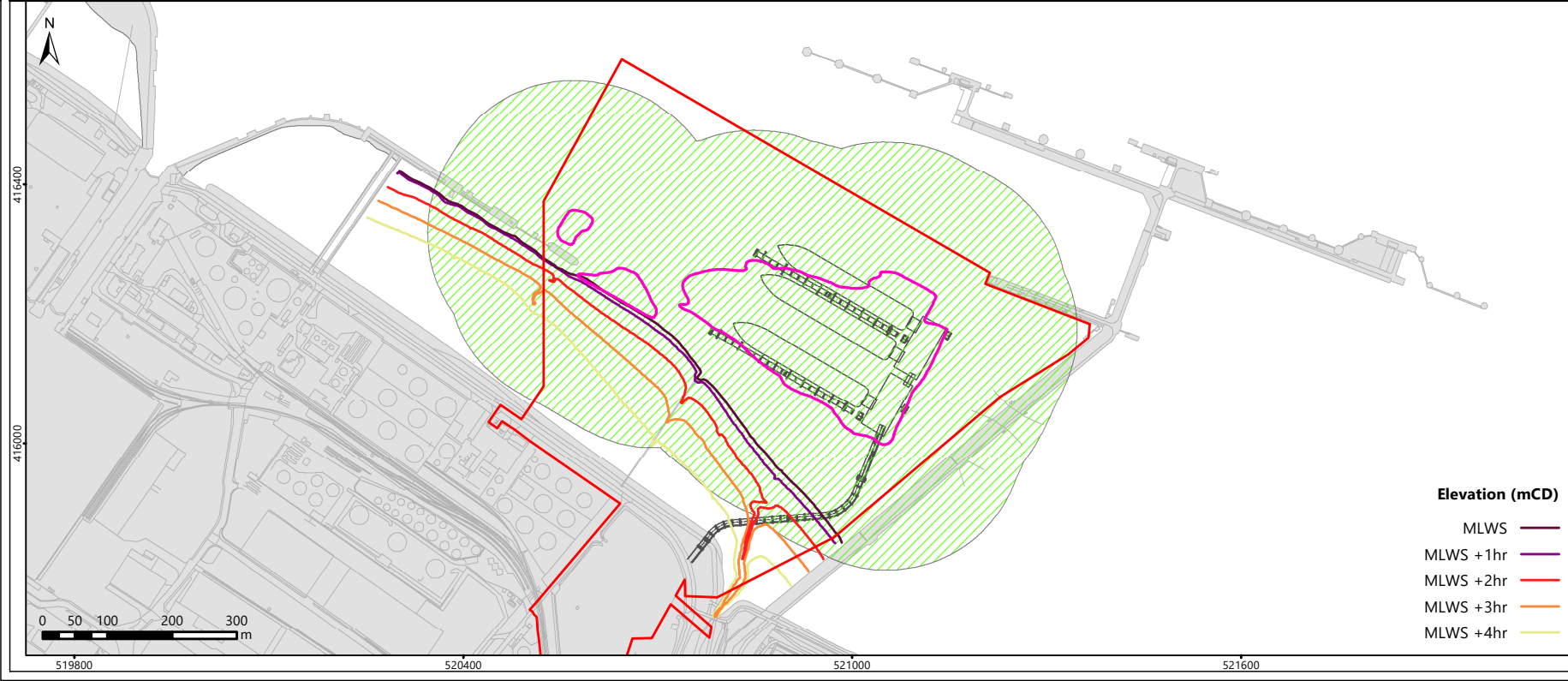
**THE DISTRIBUTION OF COASTAL  
WATERBIRDS WITHIN SECTOR B**

**Figure 9.10**



- Legend**
- Proposed Application Site
  - Indicative Dredge Area
- Buffer Distance From Indicative Dredge Area (m)
- 200

- Elevation (mCD)**
- MLWN —
  - MLWN +1hr —
  - MLWN +2hr —
  - MLWN +3hr —
  - MLWN +4hr —



© ABPmer, All rights reserved, 2022. © Crown copyright and database rights 2021. Ordnance Survey 0100031673.

Date	By	QA
14/12/2022	OJR	CRB
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:10,000	
<b>Project no.</b>	5035	



Fig9.11\_Construction\_Buffer\_Dredge\_A4.mxd

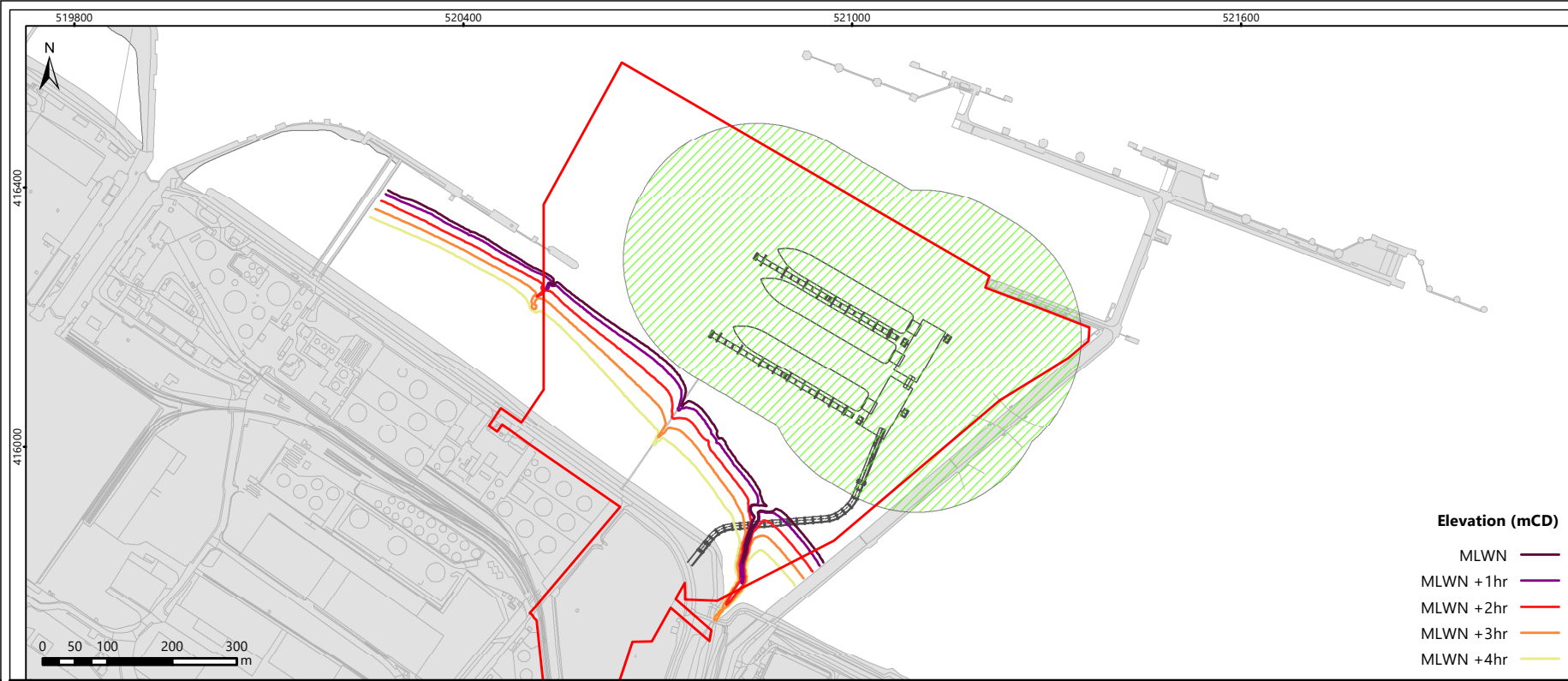


- Elevation (mCD)**
- MLWS —
  - MLWS +1hr —
  - MLWS +2hr —
  - MLWS +3hr —
  - MLWS +4hr —

**IMMINGHAM EASTERN  
RO-RO TERMINAL**

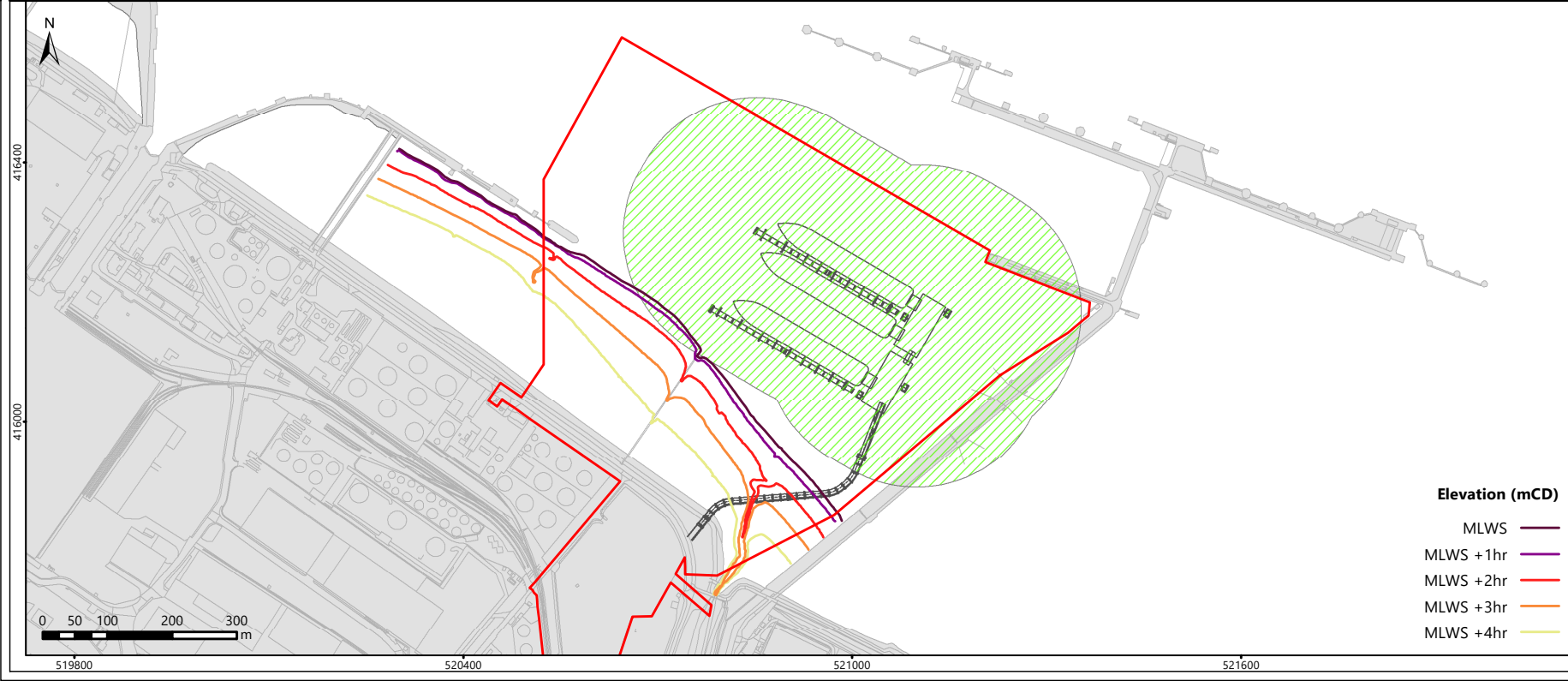
**CONSTRUCTION ACTIVITY ASSOCIATED  
WITH CAPITAL DREDGING AND  
POTENTIAL DISTURBANCE ZONE BUFFER**

**Figure 9.11**



- Legend**
- Proposed Application Site
  - Buffer Distance from Outer Finger Pier (m)
  - 200

- Elevation (mCD)**
- MLWN
  - MLWN +1hr
  - MLWN +2hr
  - MLWN +3hr
  - MLWN +4hr



© ABPmer, All rights reserved, 2022. © Crown copyright and database rights 2021. Ordnance Survey 0100031673.

Date	By	QA
14/12/2022	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:10,000	
<b>Project no.</b>	5035	



Fig9.12\_Construction\_Buffer\_Out\_A4.mxd

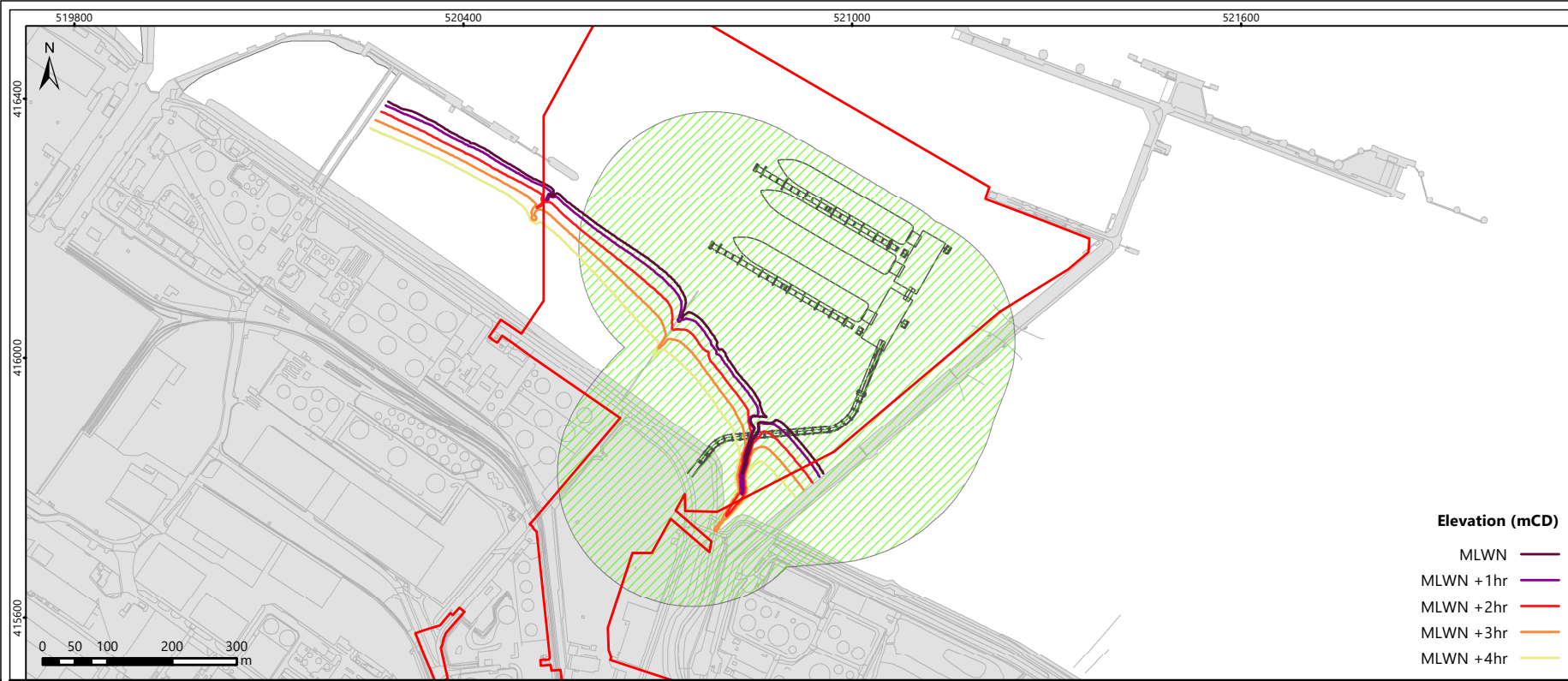


- Elevation (mCD)**
- MLWS
  - MLWS +1hr
  - MLWS +2hr
  - MLWS +3hr
  - MLWS +4hr


**IMMINGHAM EASTERN  
RO-RO TERMINAL**


**CONSTRUCTION ACTIVITY ASSOCIATED WITH  
THE OUTER FINGER PIER AND POTENTIAL  
DISTURBANCE ZONE BUFFER**

**Figure 9.12**




**Legend**


 Proposed Application Site


 Buffer Distance From Approach Jetty and Inner Finger Pier (m)


200


**Elevation (mCD)**

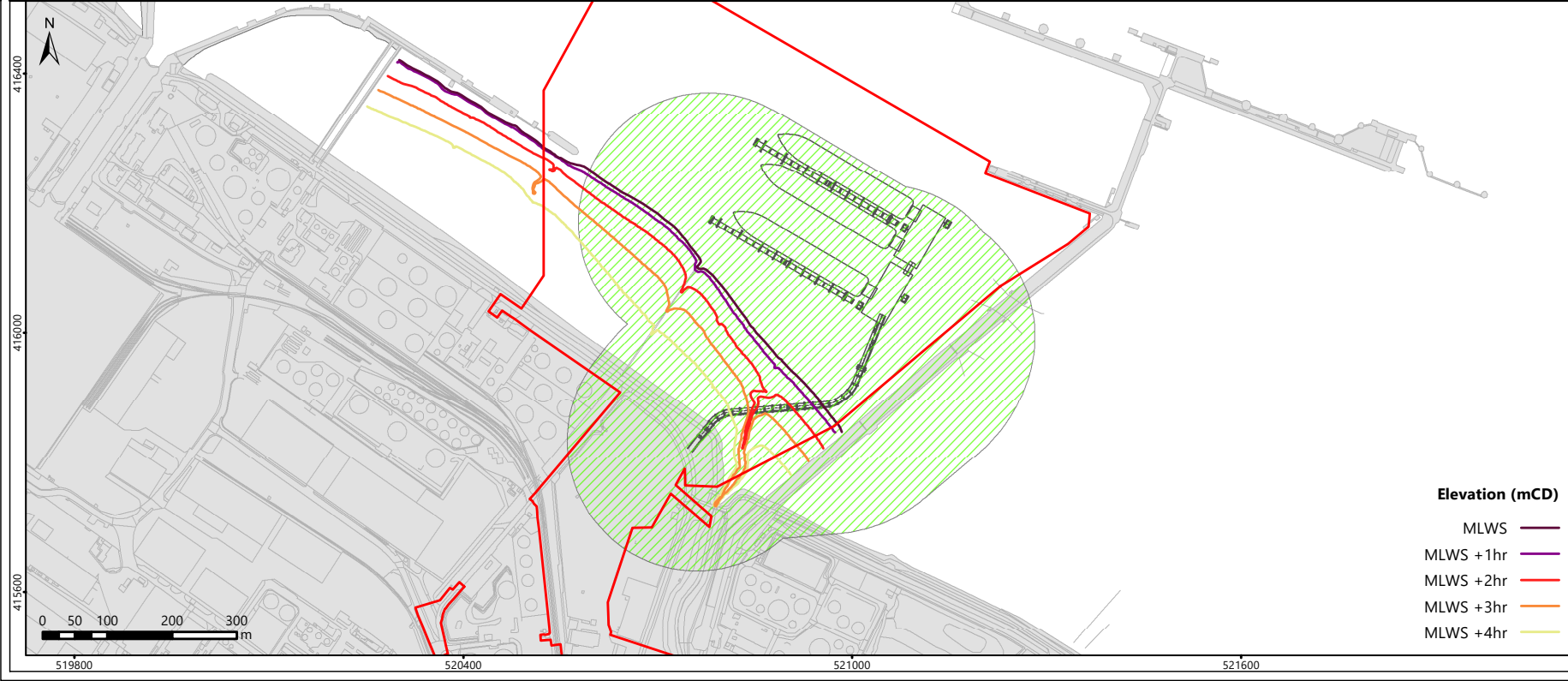
MLWN 

MLWN +1hr 

MLWN +2hr 

MLWN +3hr 

MLWN +4hr 




© ABPmer, All rights reserved, 2022. © Crown copyright and database rights 2021. Ordnance Survey 0100031673.


Date	By	QA
14/12/2022	OJR	CRO
<b>Projection</b>	British National Grid	
<b>Scale (A4)</b>	1:10,000	
<b>Project no.</b>	5035	





Fig9.13\_Construction\_Buffer\_In\_A4.mxd


**Elevation (mCD)**

MLWS 

MLWS +1hr 

MLWS +2hr 

MLWS +3hr 

MLWS +4hr 



**IMMINGHAM EASTERN  
RO-RO TERMINAL**

**CONSTRUCTION ACTIVITY ASSOCIATED WITH  
THE APPROACH JETTY AND INNER PIER AND  
POTENTIAL DISTURBANCE ZONE BUFFER**

**Figure 9.13**