

Outer Dowsing Offshore Wind

Environmental Statement

Chapter 24 Hydrology and Flood Risk

Volume 3 Appendices

Appendix 24.3 Flood Risk Assessment: Onshore Substation

7 of 8

Date: July 2024

Document Reference: 6.3.24.3

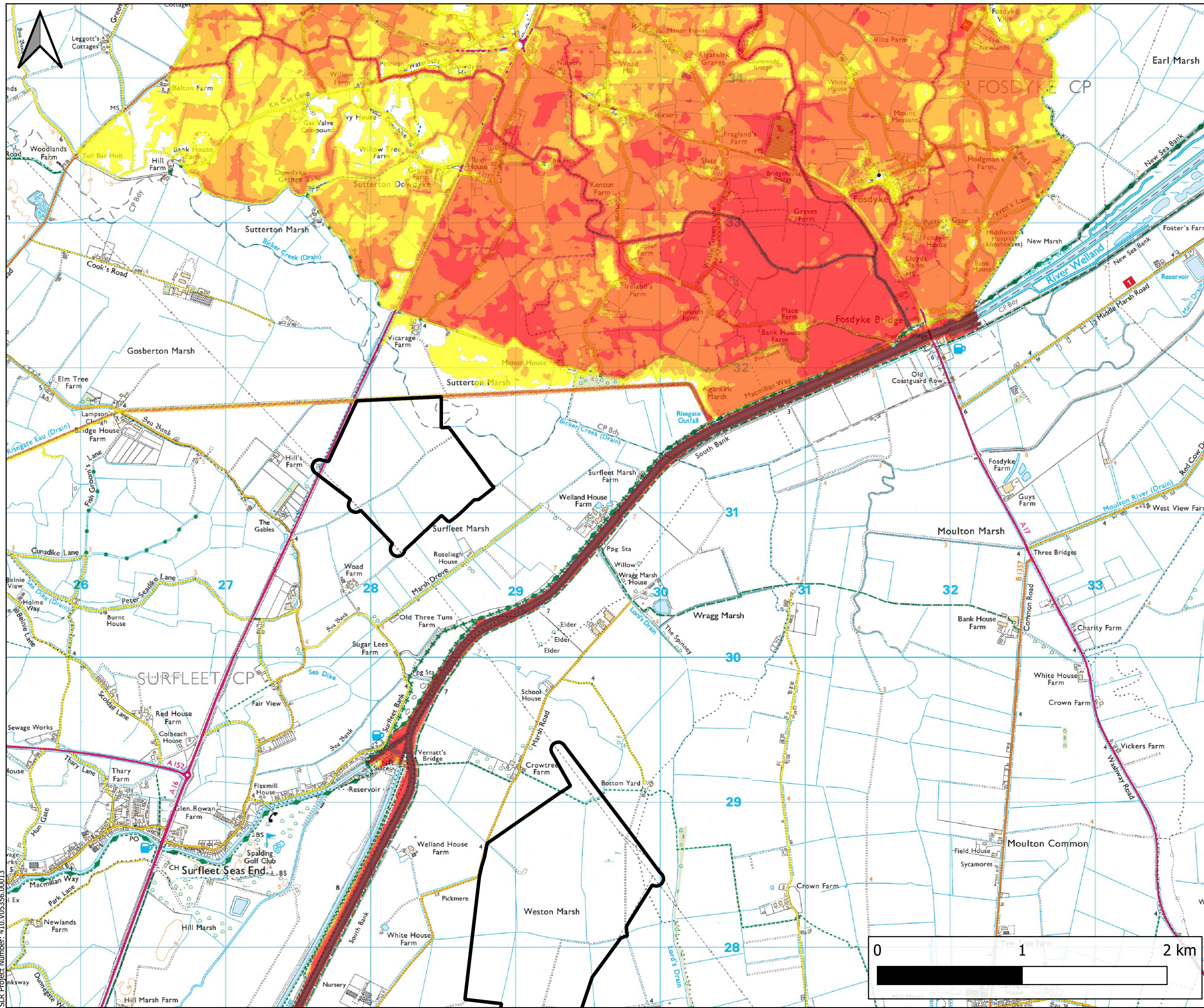
Pursuant to APFP Regulation: 5(2)(a) and 5(2)(e)

Rev: 2.0

Company:		Outer Dowsing Offshore Wind		Asset:		Whole Asset	
Project:		Whole Wind Farm		Sub Project/Package:		Whole Asset	
Document Title or Description:		Appendix 24.3 Flood Risk Assessment: Onshore Substation					
Internal Document Number:		PP1-ODOW-DEV-CS-REP-0196_02		3 rd Party Doc No (If applicable):		N/A	
Rev No.	Date	Status / Reason for Issue	Author	Checked by	Reviewed by	Approved by	
1.0	March 2024	DCO Application	SLR	GoBe	Shepherd and Wedderburn	Outer Dowsing	
2.0	July 2024	Response to Section 51 Advice	SLR	Outer Dowsing	Shepherd and Wedderburn	Outer Dowsing	



Appendix B Sensitivity Analysis Maps – Peak Results



LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 77

Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

Client
Outer Dowsing Offshore Wind

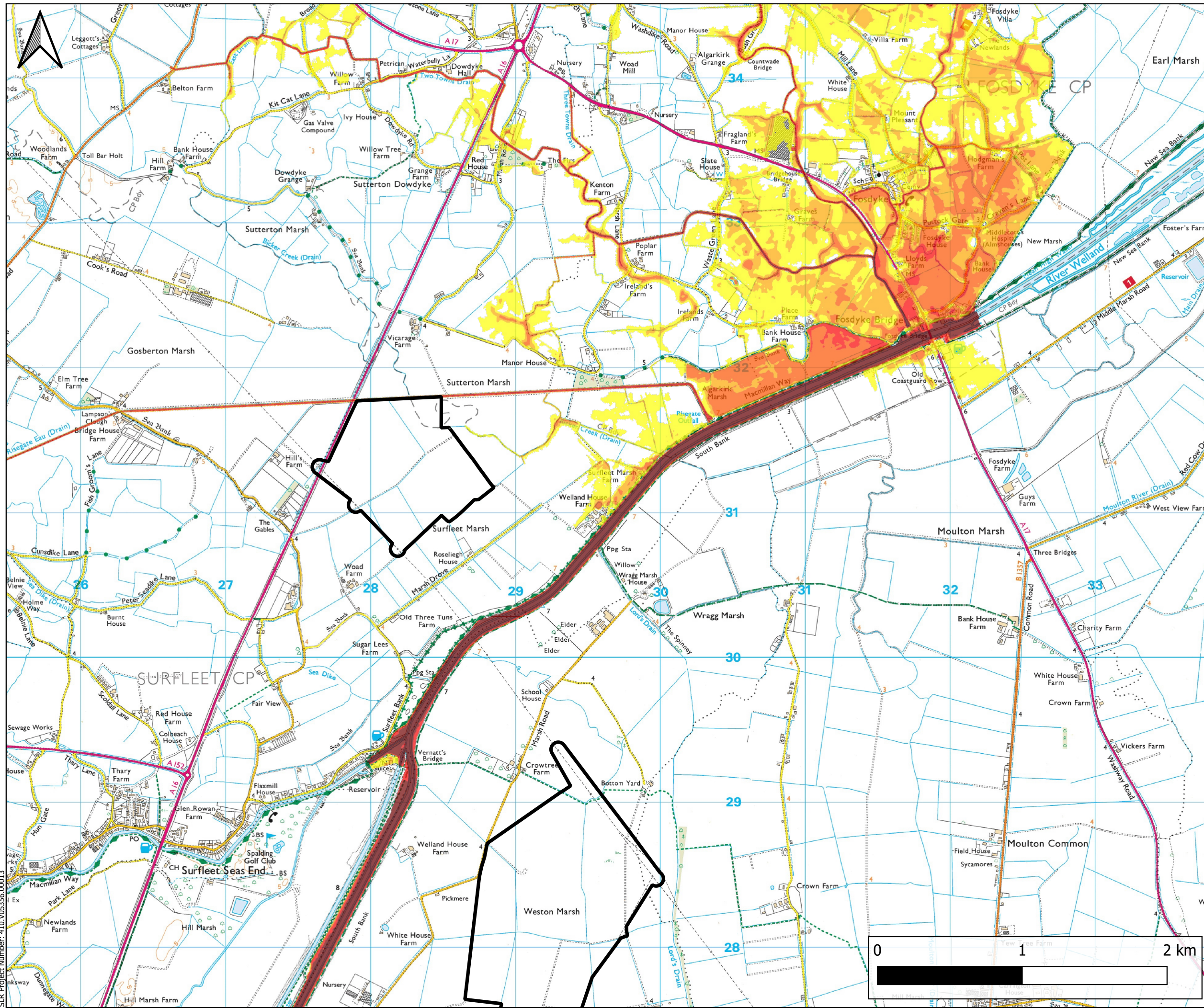


**Sensitivity Analysis Grid Size
14m Maximum Flood Depths
1:1000yr+CC Overtopping
Baseline Scenario**



SLR Project Number: 410.V05356.00013

Scale A3	Version 2.0	Date June 2024
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LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 78

Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

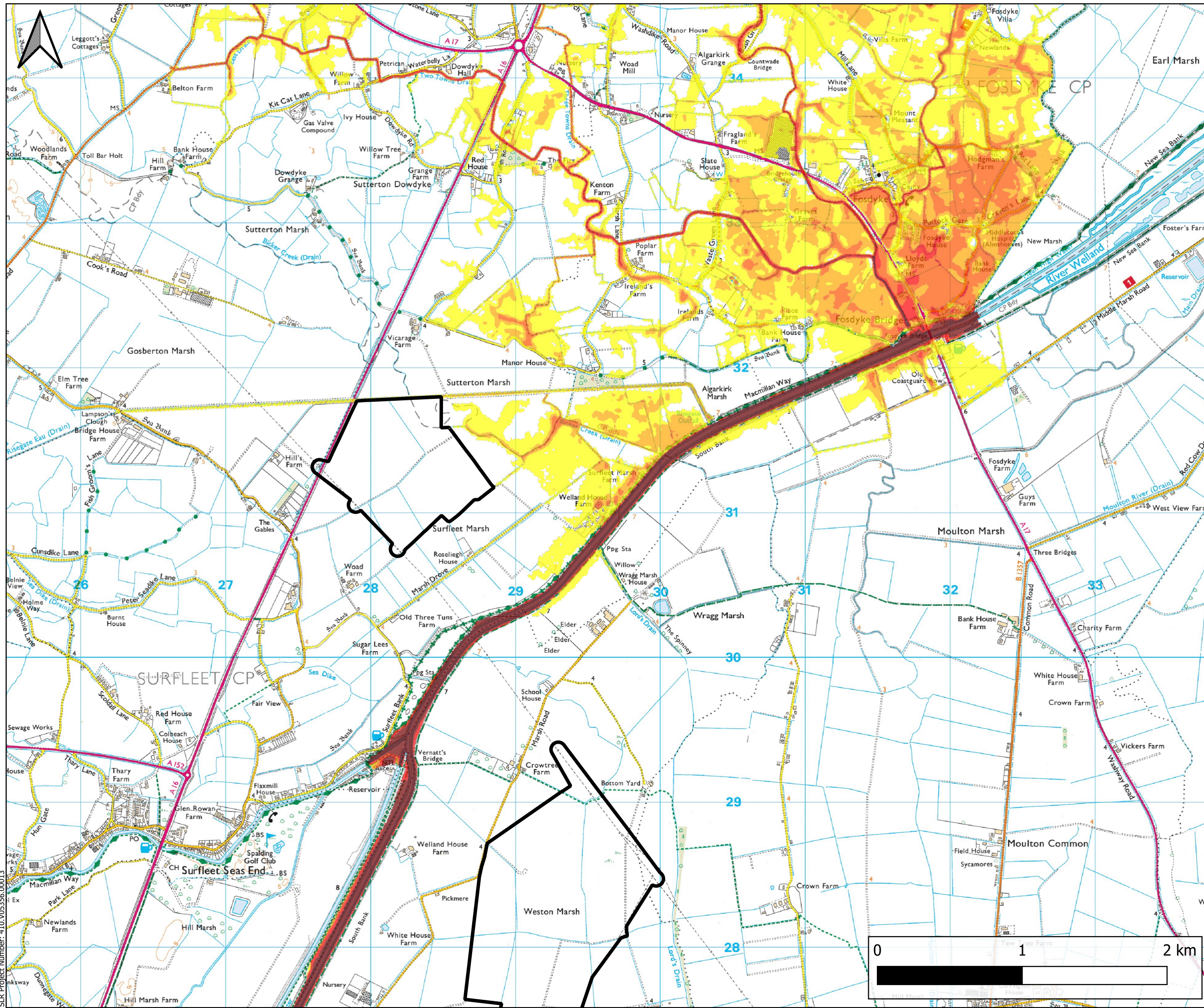
Client
Outer Dowsing Offshore Wind



**Sensitivity Analysis Grid Size
6m Maximum Flood Depths
1:1000yr+CC Overtopping
Baseline Scenario**

Scale A3	Version 2.0	Date June 2024
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SLR Project Number: 410.V05356.00013



LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 79

Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

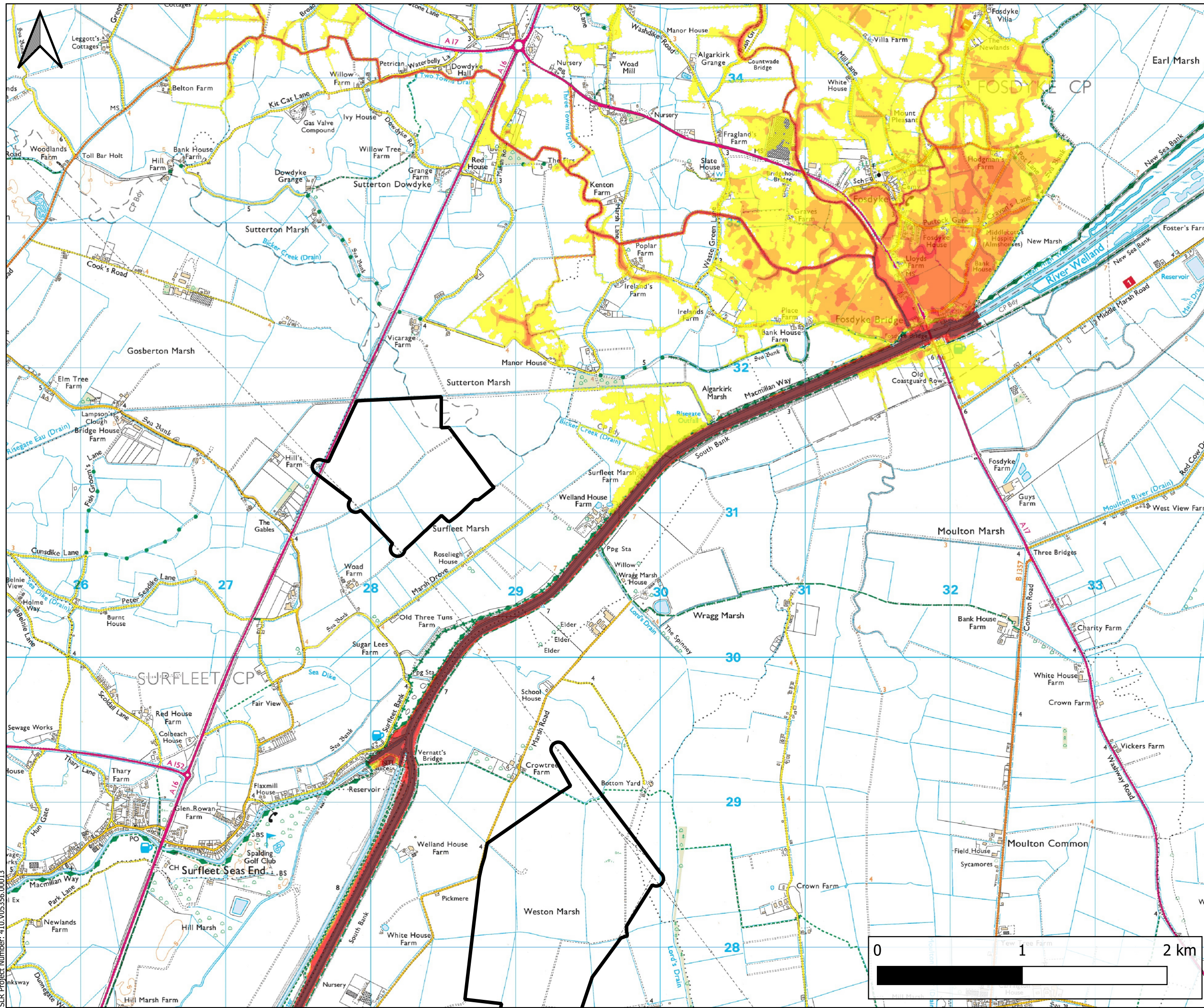
Client
Outer Dowsing Offshore Wind



**Sensitivity Analysis
Manning's Roughness -20%
Maximum Flood Depths
1:1000yr+CC Overtopping
Baseline Scenario**



SLR Project Number: 410.V05356.00013



LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 80

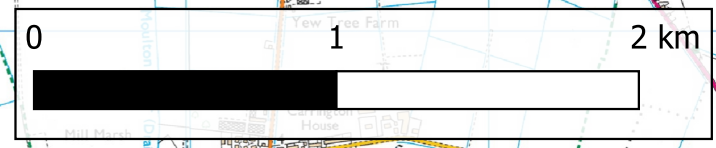
Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

Client
Outer Dowsing Offshore Wind

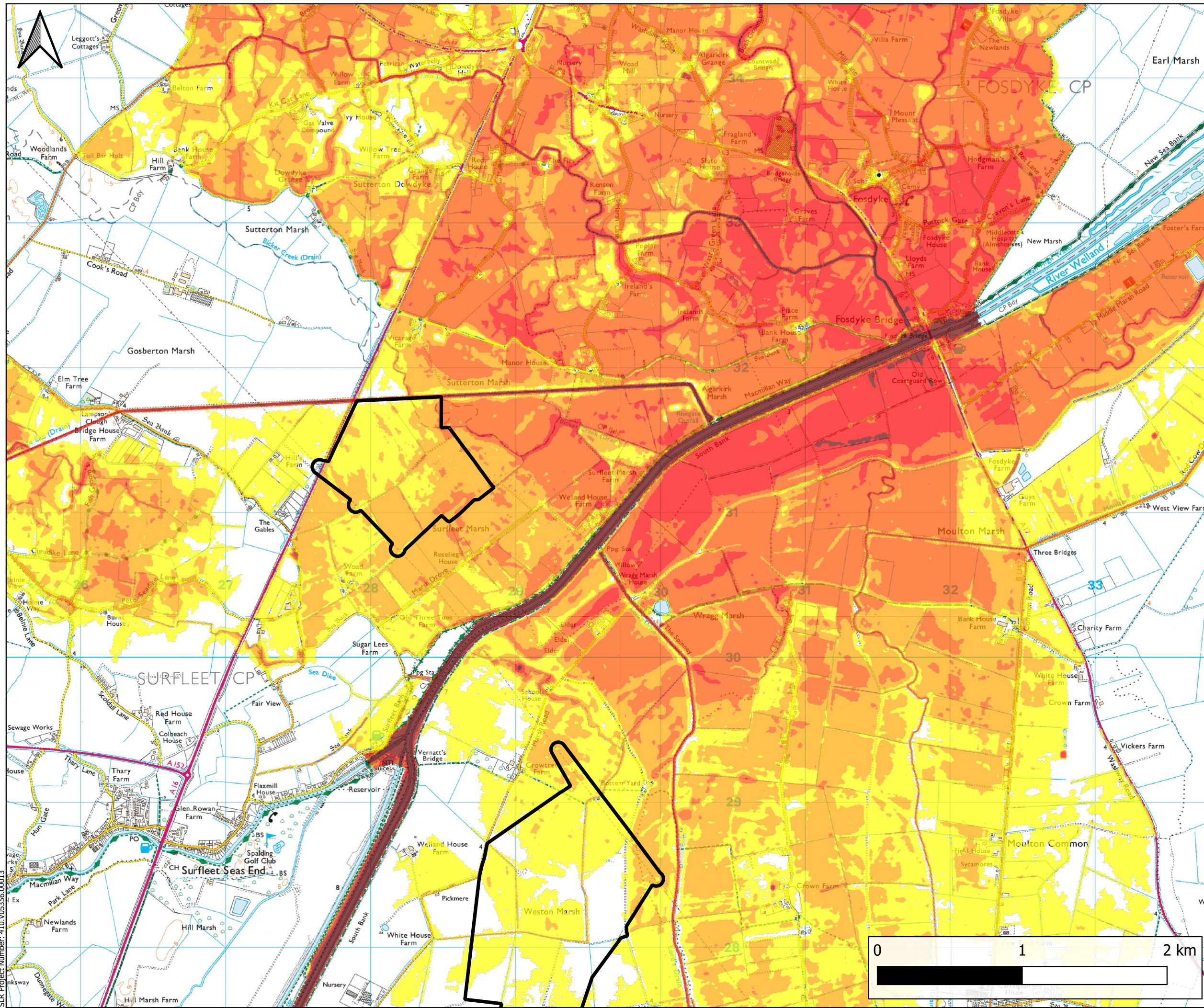


**Sensitivity Analysis
Manning's Roughness +20%
Maximum Flood Depths
1:1000yr+CC Overtopping
Baseline Scenario**

Scale A3	Version 2.0	Date June 2024
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SLR Project Number: 410.V05356.00013



LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 81

Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

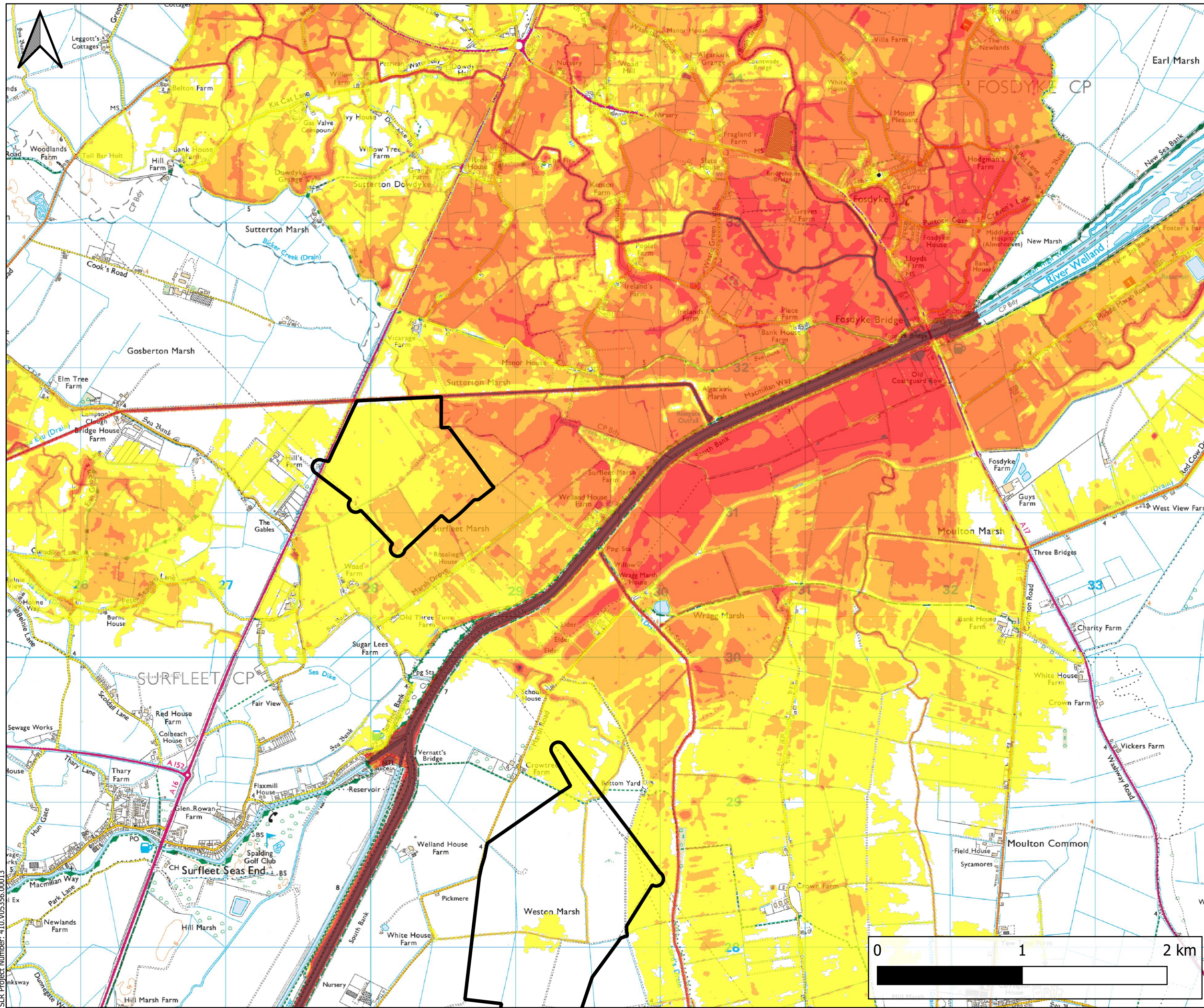
Client
Outer Dowsing Offshore Wind



**Sensitivity Analysis H++
Climate Change Allowances
Maximum Flood Depths
1:1000yr Overtopping
Baseline Scenario**



SLR Project Number: 410.V05356.00013



LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 82

Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

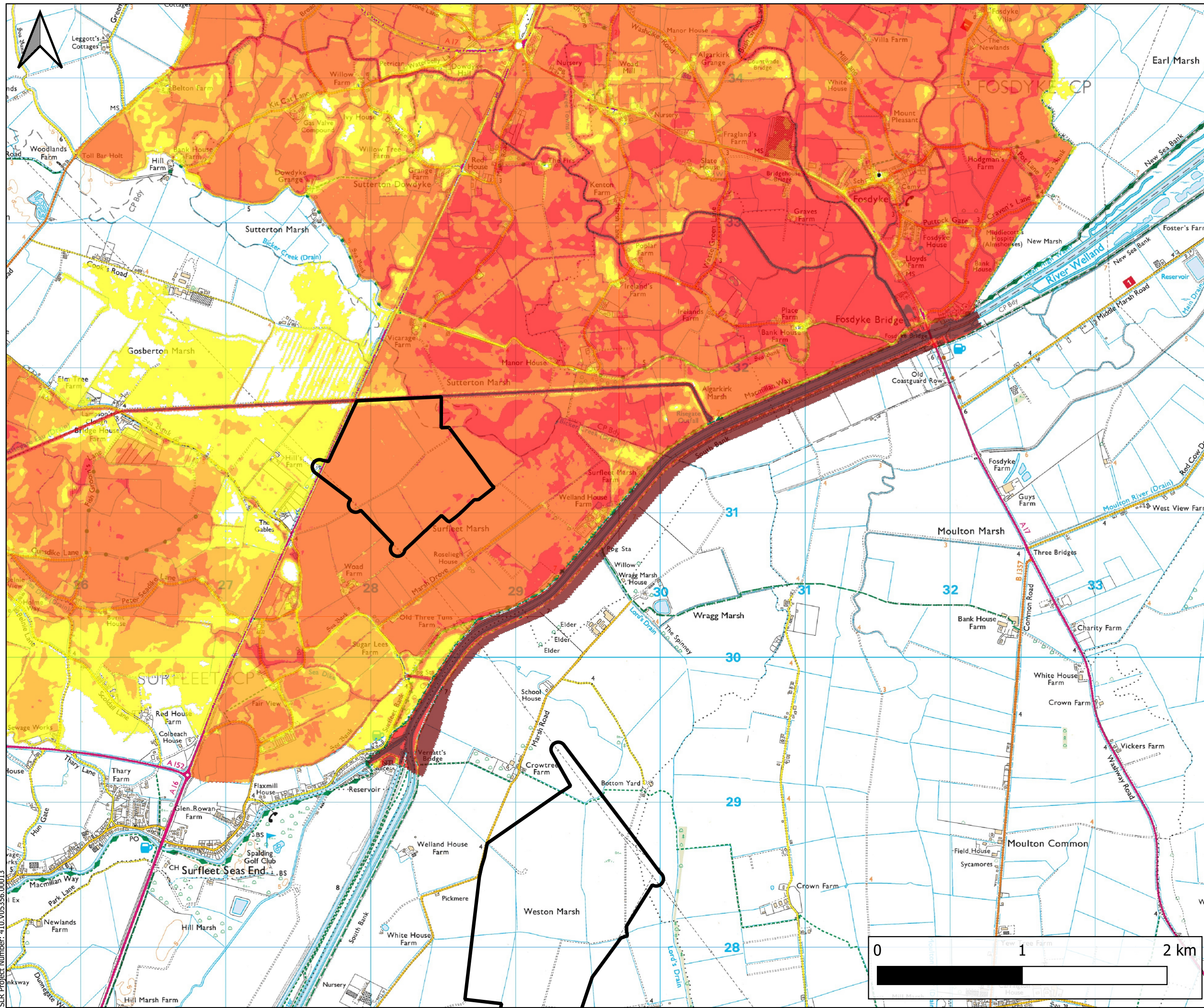
Client
Outer Dowsing Offshore Wind



**Sensitivity Analysis H++
Climate Change Allowances
Maximum Flood Depths
1:200yr Overtopping
Baseline Scenario**

Scale A3	Version 2.0	Date June 2024
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SLR Project Number: 410.V05356.00013



LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 83

Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

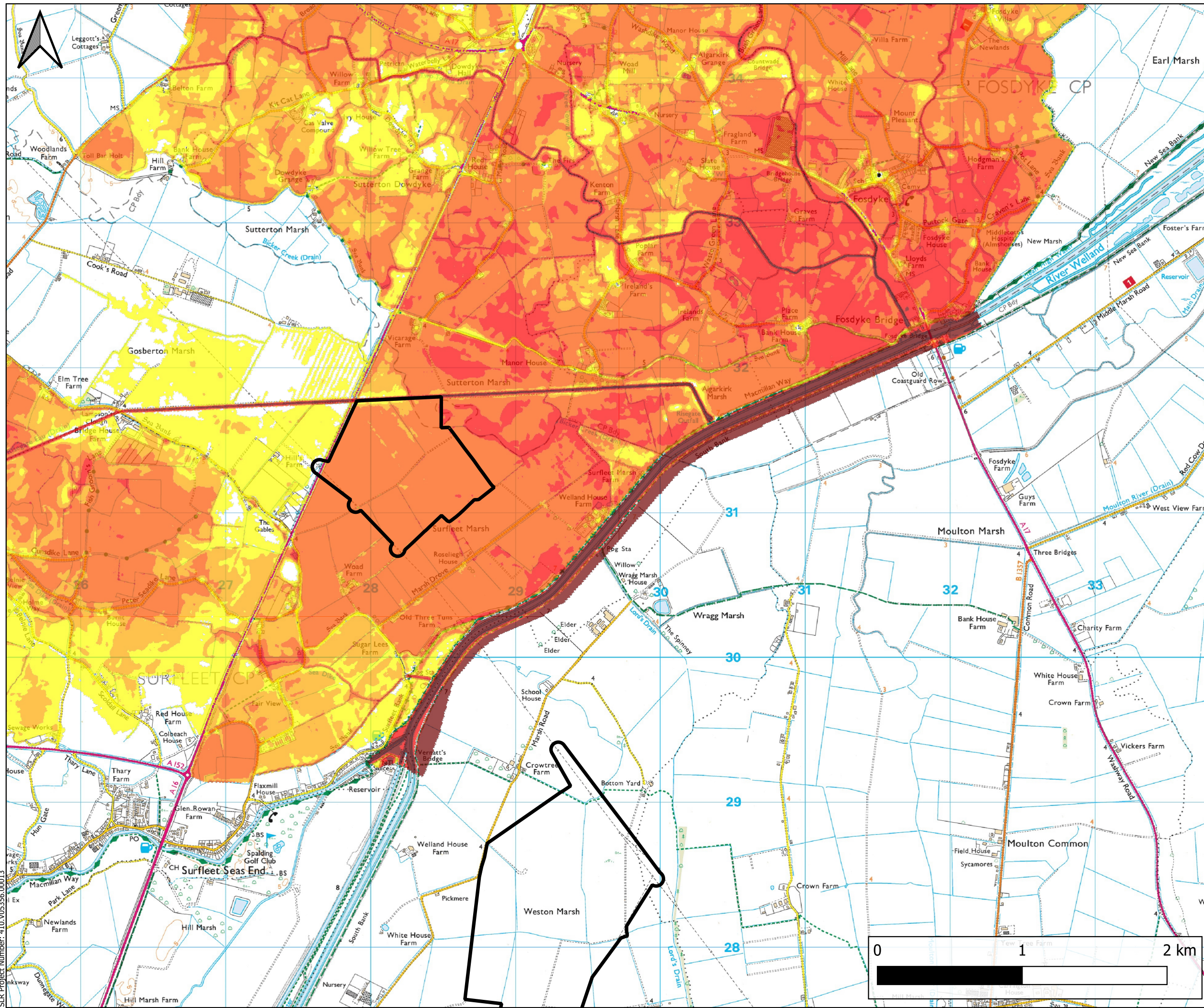
Client
Outer Dowsing Offshore Wind



**Sensitivity Analysis H++
Climate Change Allowances
Maximum Flood Depths
1:1000yr North Breach 2
Baseline Scenario**



SLR Project Number: 410.V05356.00013



LEGEND

- Substation Search Areas
- Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- > 2.00

Ordnance Survey(OS) 1:25000
Raster Basemap



Figure No. 84

Project
Outer Dowsing Offshore Wind Farm - Flood Inundation Mapping

Client
Outer Dowsing Offshore Wind



**Sensitivity Analysis H++
Climate Change Allowances
Maximum Flood Depths
1:200yr North Breach 2
Baseline Scenario**



SLR Project Number: 410.V05356.00013