

Outer Dowsing Offshore Wind

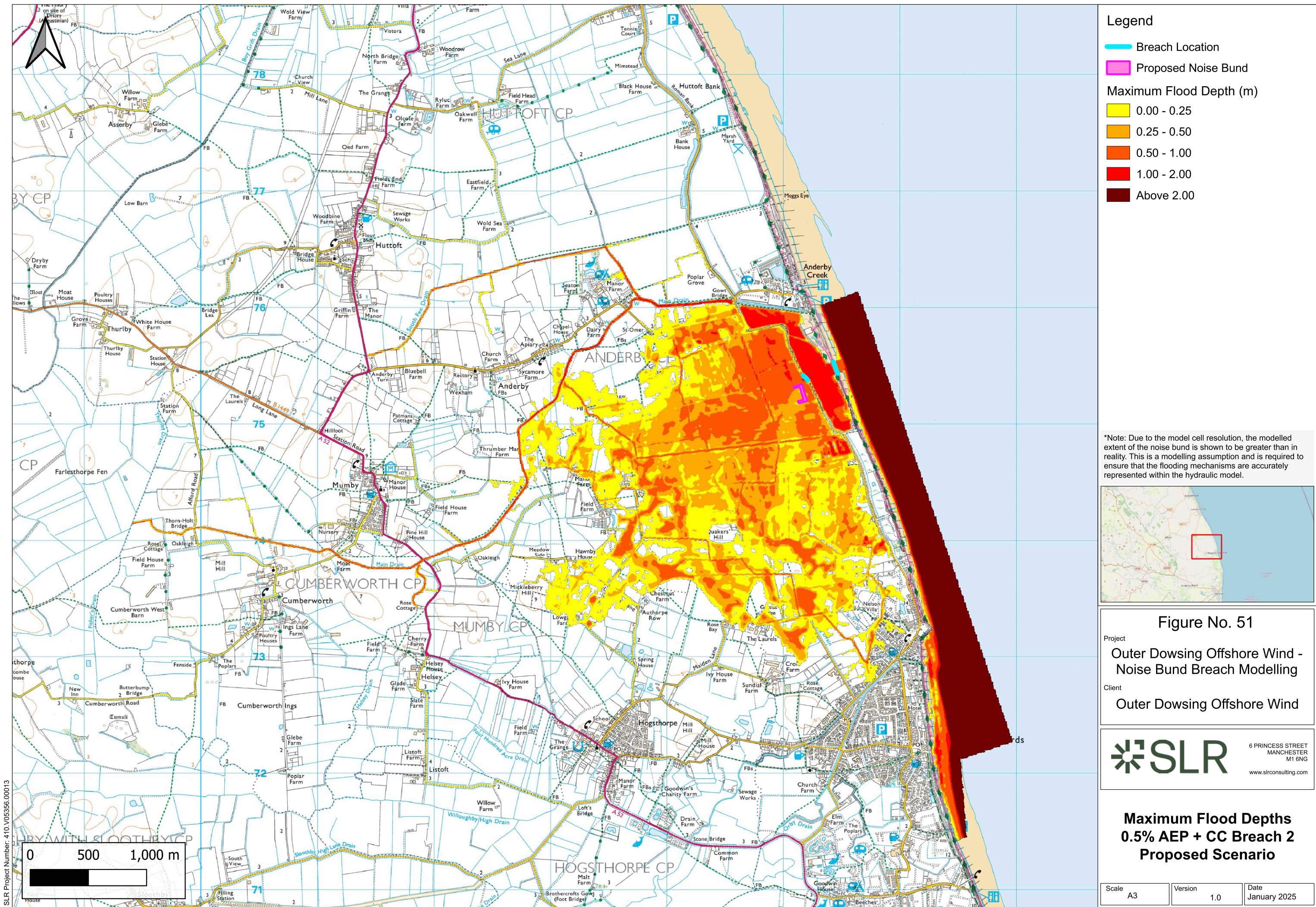
Noise Bund Hydraulic Modelling Report Appendix C Figures (Part 4 of 4)

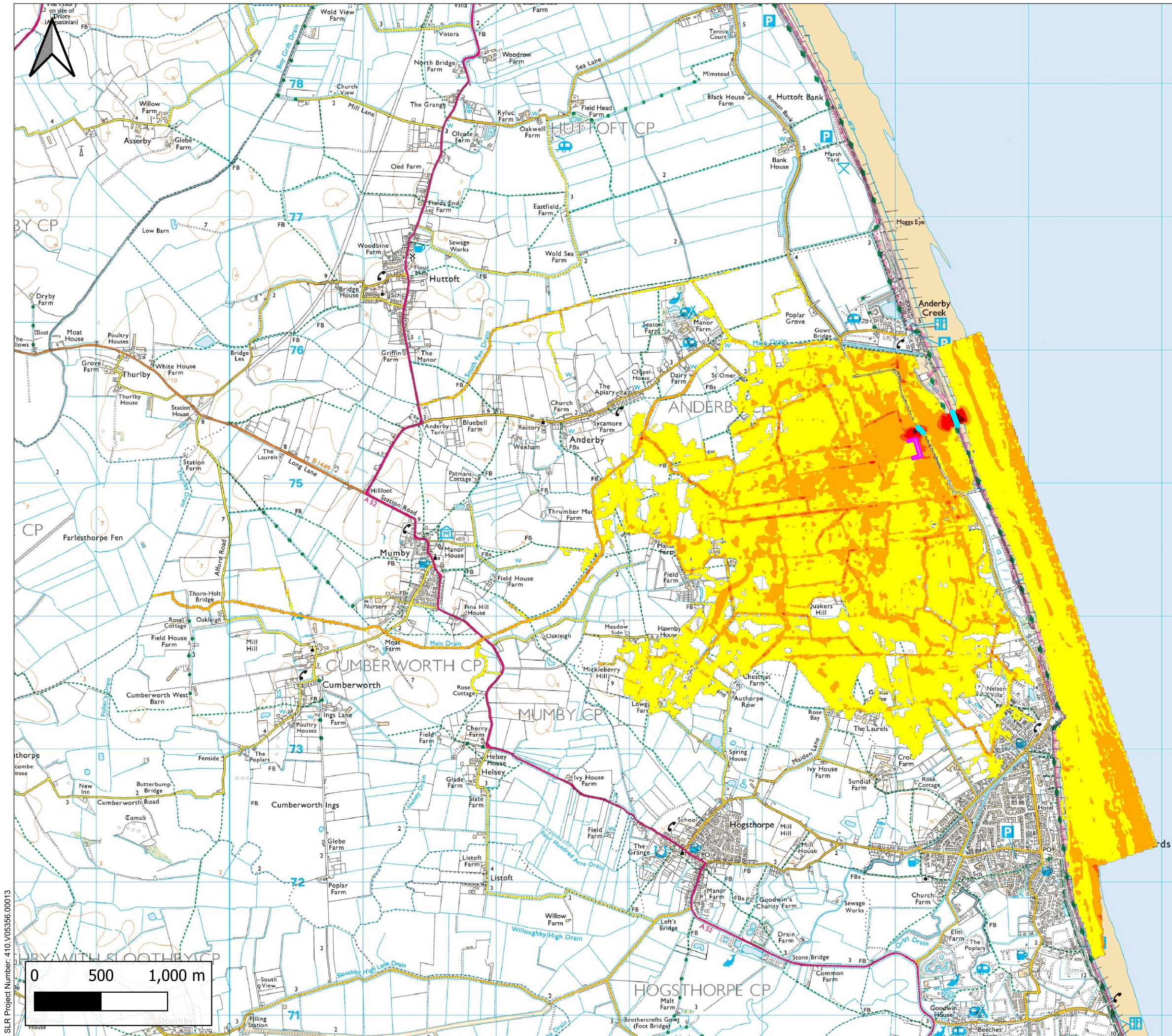
Deadline 4

Date: February 2025

Document Reference: 15.7A
Revision: 3.0

Company:		Outer Dowsing Offshore Wind		Asset:		Whole Asset	
Project:		Whole Wind Farm		Sub Project/Package:		Whole Asset	
Document Title or Description:		15.7 Noise Bund Hydraulic Modelling Report Appendix C Figures (Part 4 of 4)					
Internal Document Number:		PP1-ODOW-DEV-CS-REP-0223_03		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	September 2024	Procedural Deadline 19 September	SLR	Outer Dowsing	Shepherd & Wedderburn	Outer Dowsing	
2.0	December 2024	EA Workshop	SLR	Outer Dowsing	Shepherd & Wedderburn	Outer Dowsing	
3.0	February 2025	Deadline 4	SLR	Outer Dowsing	Shepherd & Wedderburn	Outer Dowsing	





Legend

— Breach Location

— Proposed Noise Bund

Maximum Flood Velocity (m/s)

	0 - 0.3
	0.3 - 1.0
	1.0 - 1.5
	1.5 - 2.5
	Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

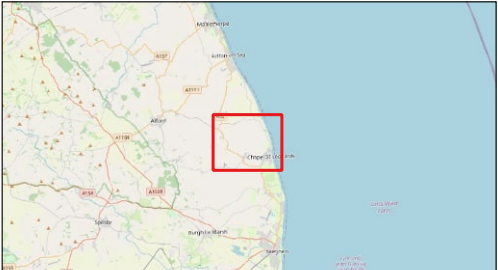


Figure No. 52

Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

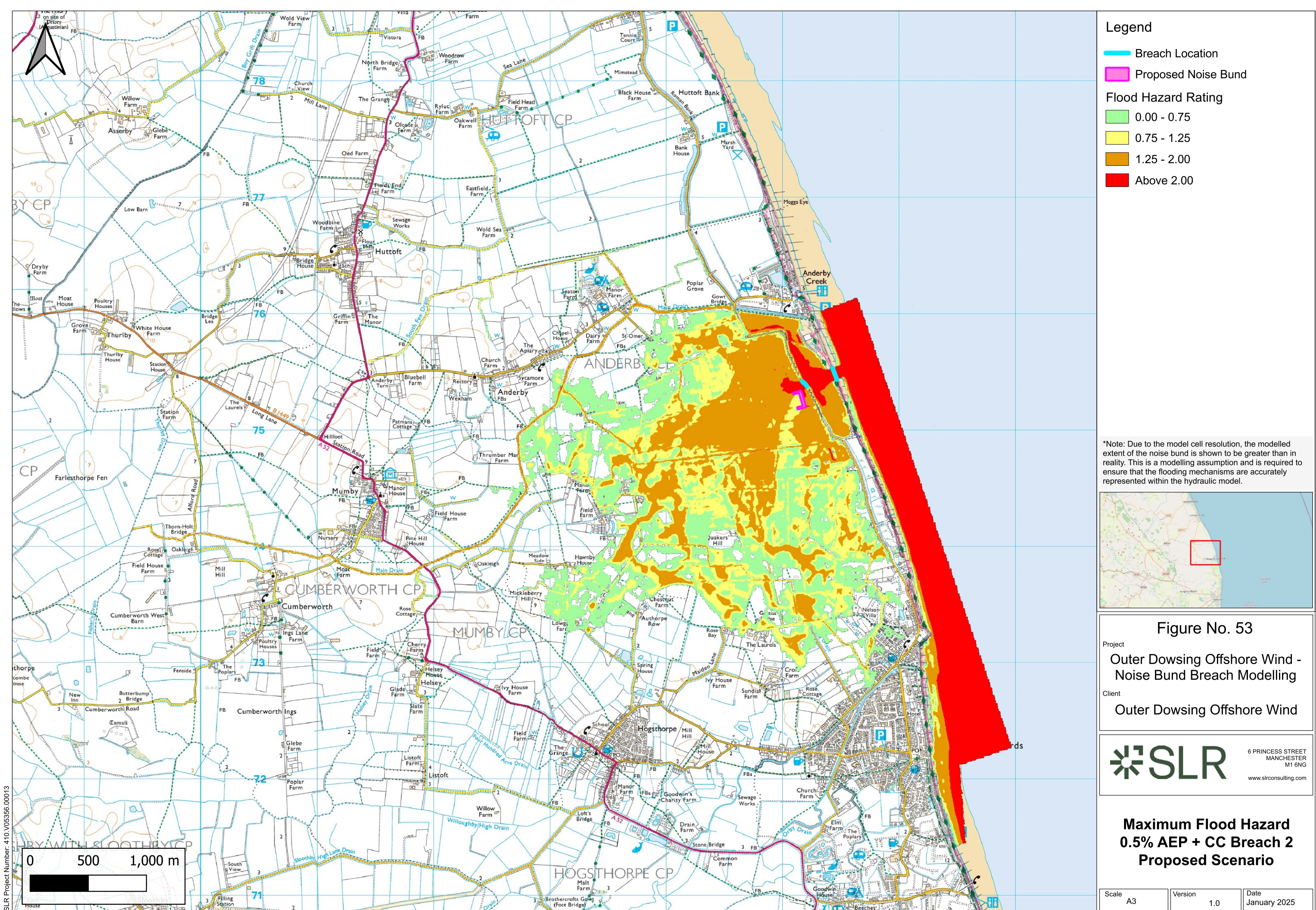
Client
Outer Dowsing Offshore Wind



6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

Maximum Flood Velocity
0.5% AEP + CC Breach 2
Proposed Scenario

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------



Legend

— Breach Location

— Proposed Noise Bund

Flood Hazard Rating

■ 0.00 - 0.75

■ 0.75 - 1.25

■ 1.25 - 2.00

■ Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

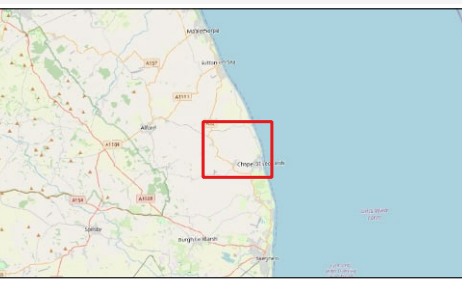


Figure No. 53

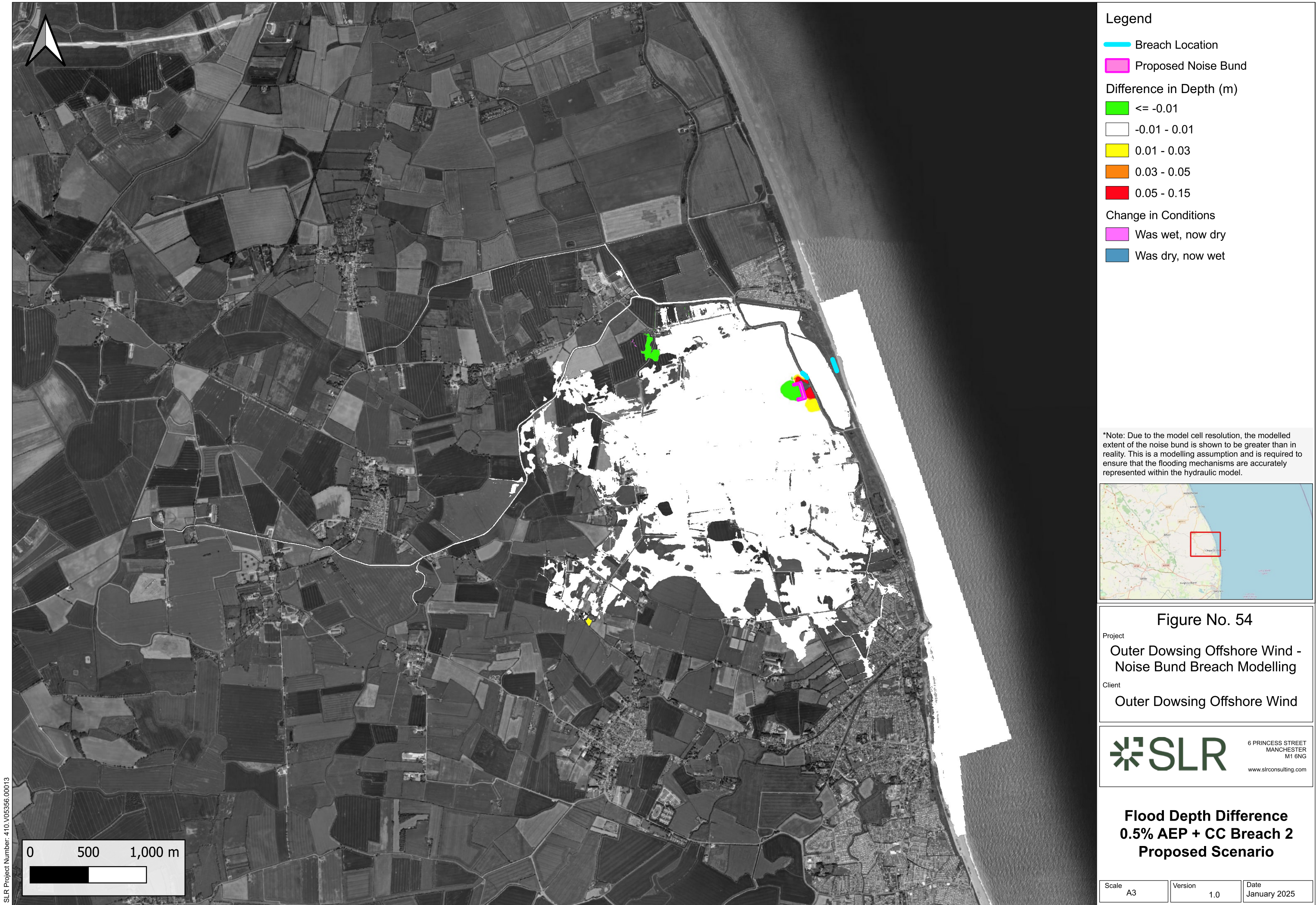
Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

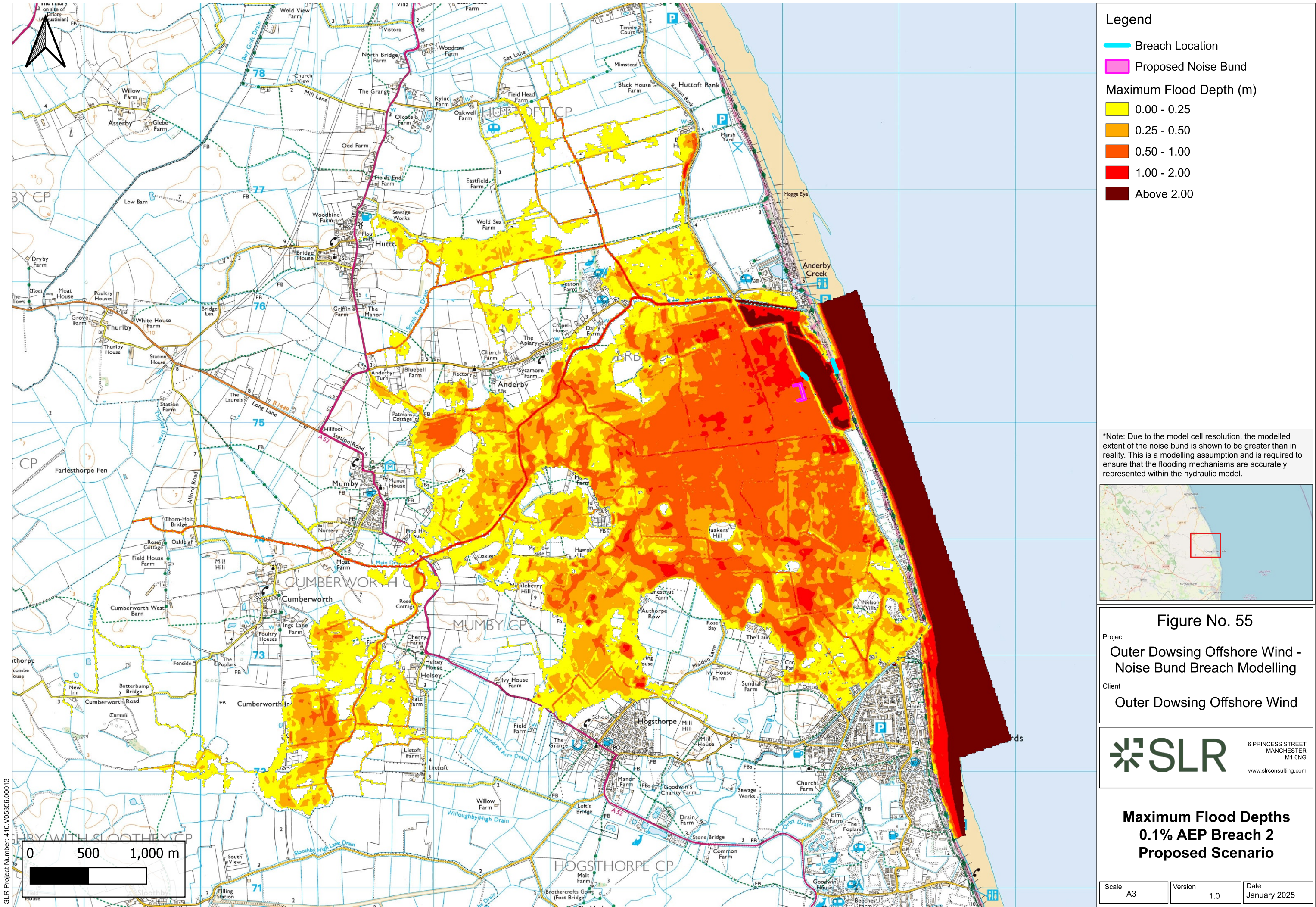
Client
Outer Dowsing Offshore Wind



**Maximum Flood Hazard
0.5% AEP + CC Breach 2
Proposed Scenario**

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------





Legend

— Breach Location

— Proposed Noise Bund

Maximum Flood Depth (m)

 	0.00 - 0.25
 	0.25 - 0.50
 	0.50 - 1.00
 	1.00 - 2.00
 	Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

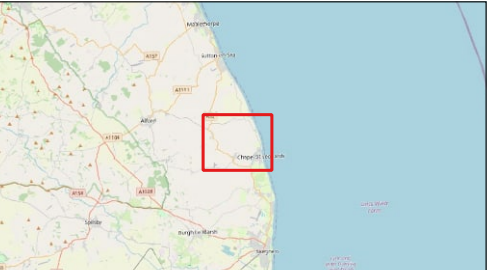


Figure No. 55

Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

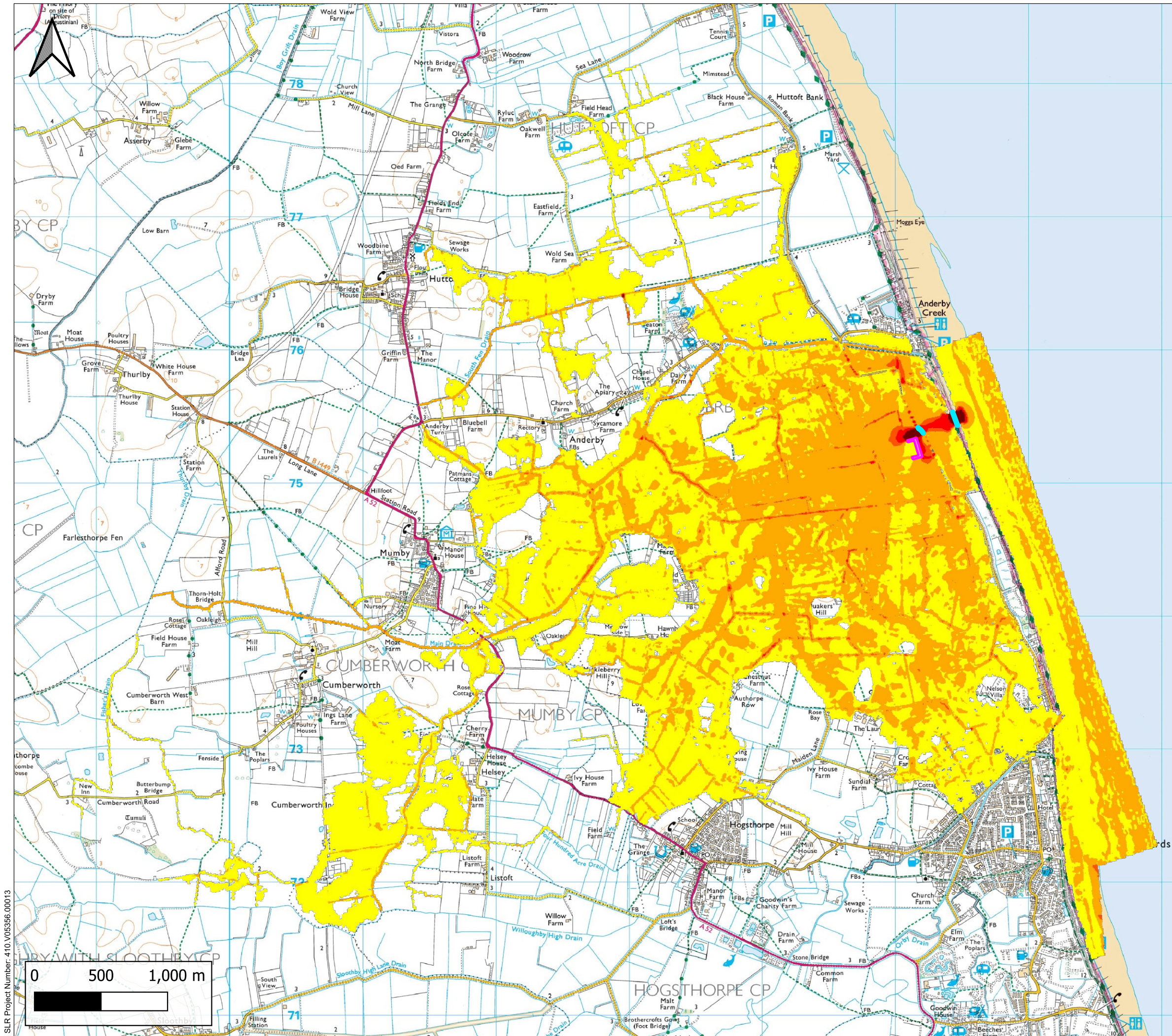
Client
Outer Dowsing Offshore Wind




6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com


**Maximum Flood Depths
0.1% AEP Breach 2
Proposed Scenario**

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------





Legend


 Breach Location


 Proposed Noise Bund


Maximum Flood Velocity (m/s)

 0 - 0.3

 0.3 - 1.0

 1.0 - 1.5

 1.5 - 2.5

 Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

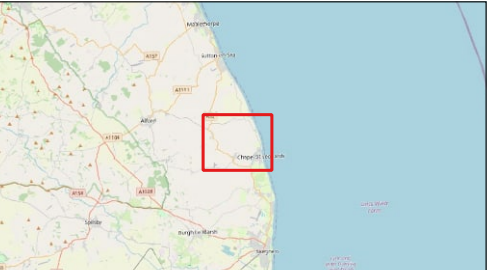


Figure No. 56

Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

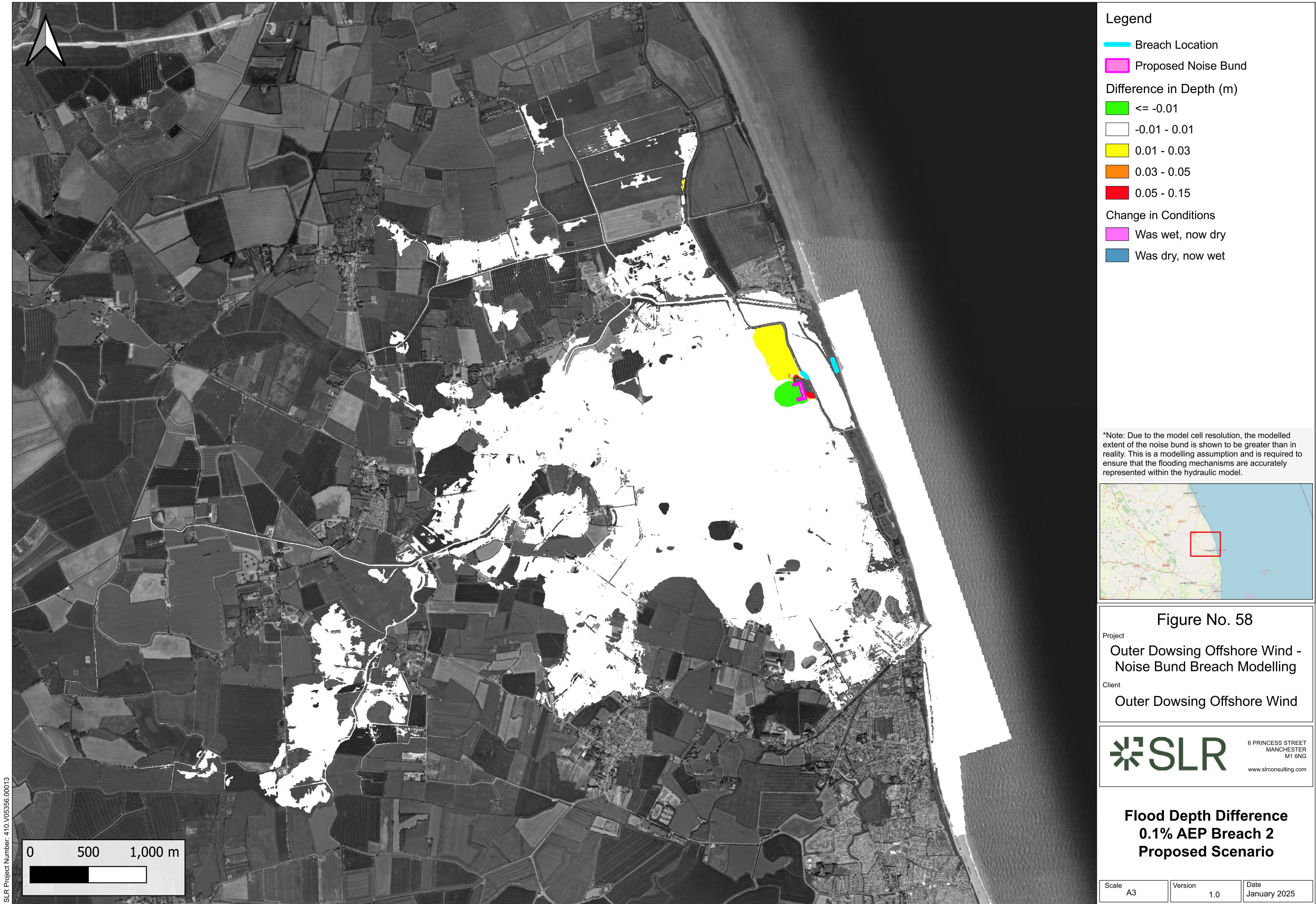
Client
Outer Dowsing Offshore Wind

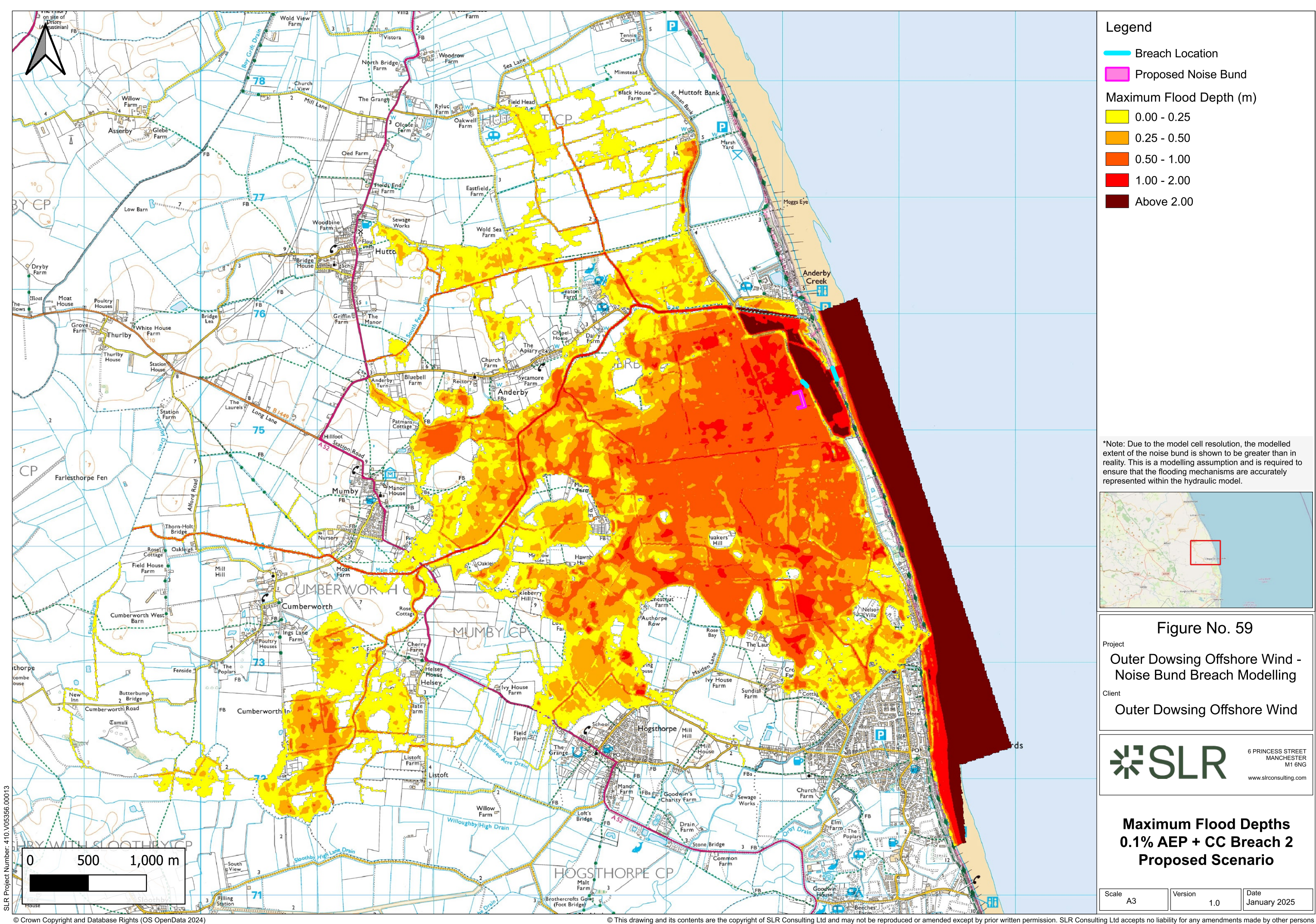
 **SLR**

6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Velocity
0.1% AEP Breach 2
Proposed Scenario**

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------





Legend

— Breach Location

— Proposed Noise Bund

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

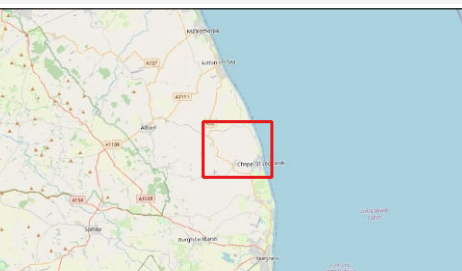


Figure No. 59

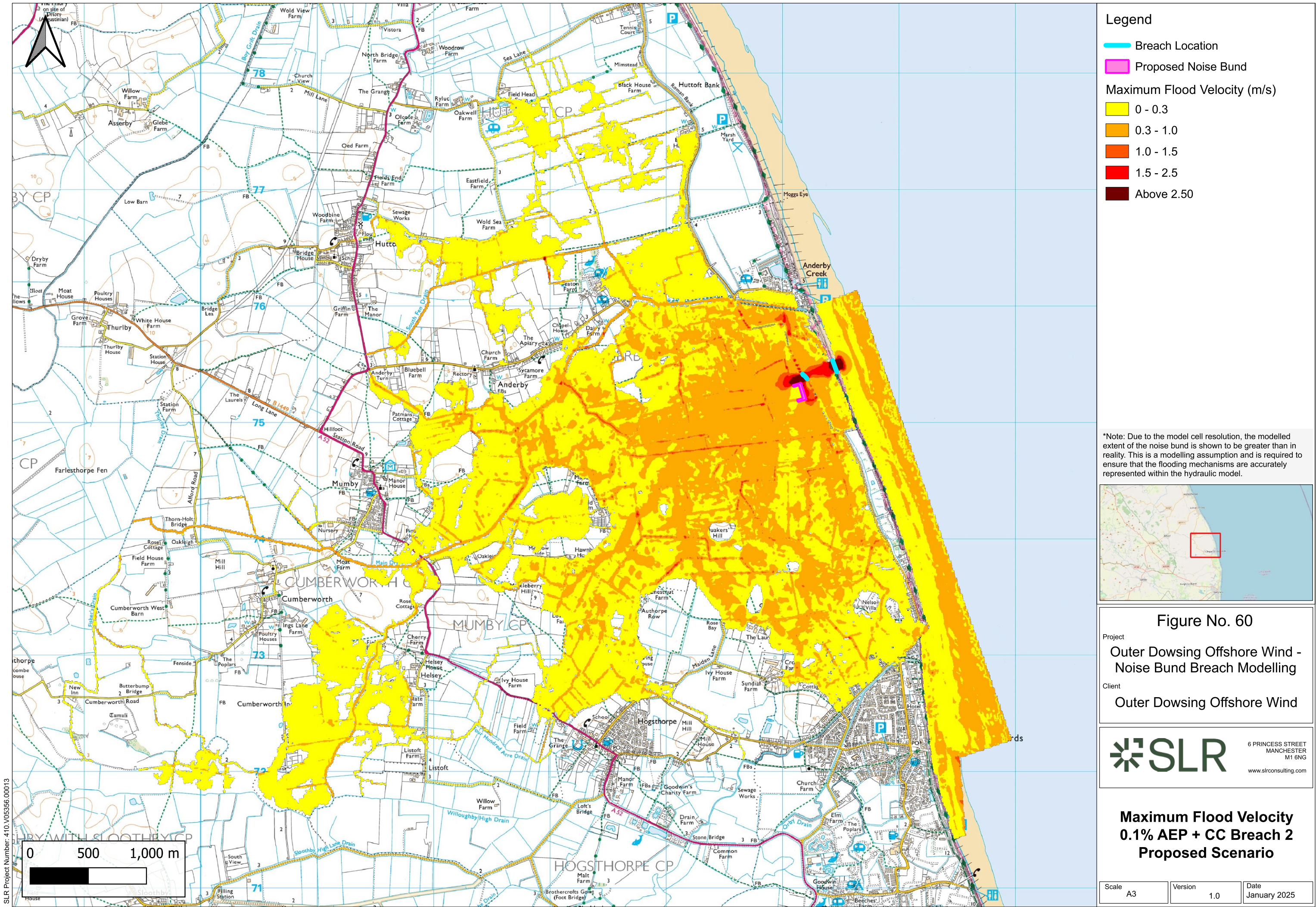
Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client
Outer Dowsing Offshore Wind



**Maximum Flood Depths
0.1% AEP + CC Breach 2
Proposed Scenario**

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------



- Legend
- Breach Location
 - Proposed Noise Bund
- Maximum Flood Velocity (m/s)
- 0 - 0.3
 - 0.3 - 1.0
 - 1.0 - 1.5
 - 1.5 - 2.5
 - Above 2.50

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

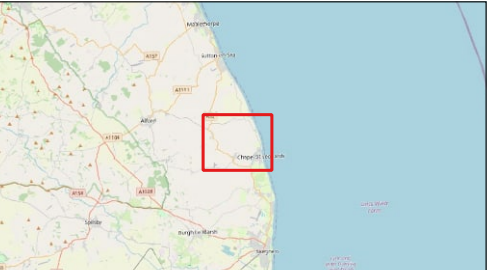


Figure No. 60

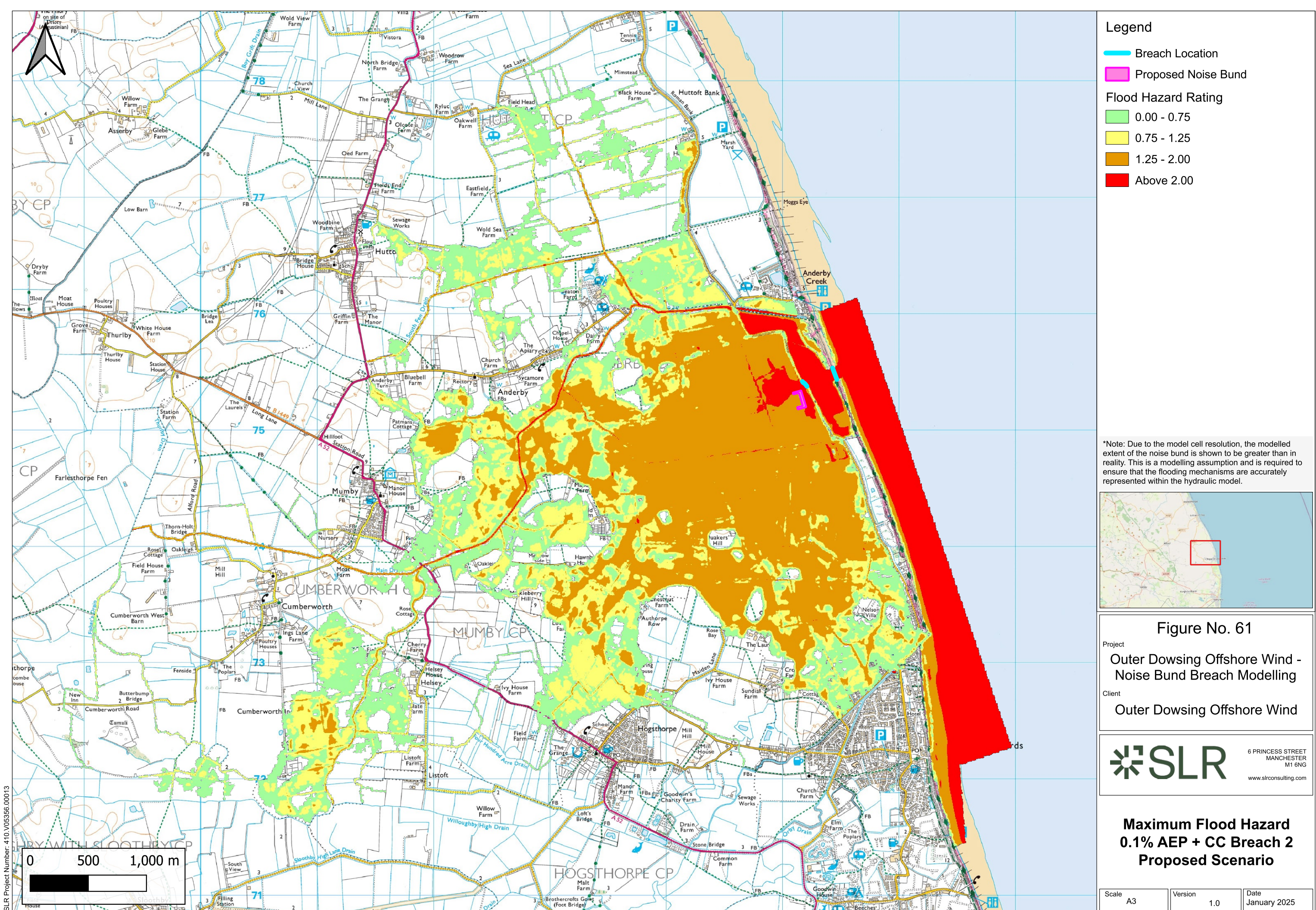
Project
Outer Dowsing Offshore Wind -
Noise Bund Breach Modelling

Client
Outer Dowsing Offshore Wind



Maximum Flood Velocity
0.1% AEP + CC Breach 2
Proposed Scenario

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------



Legend

— Breach Location

— Proposed Noise Bund

Flood Hazard Rating

■ 0.00 - 0.75

■ 0.75 - 1.25

■ 1.25 - 2.00

■ Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

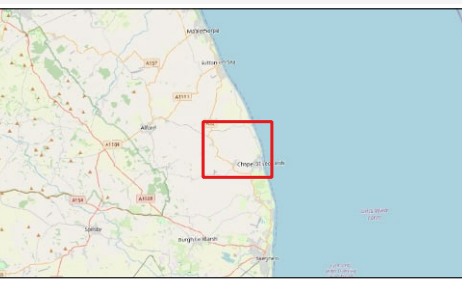


Figure No. 61

Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client
Outer Dowsing Offshore Wind

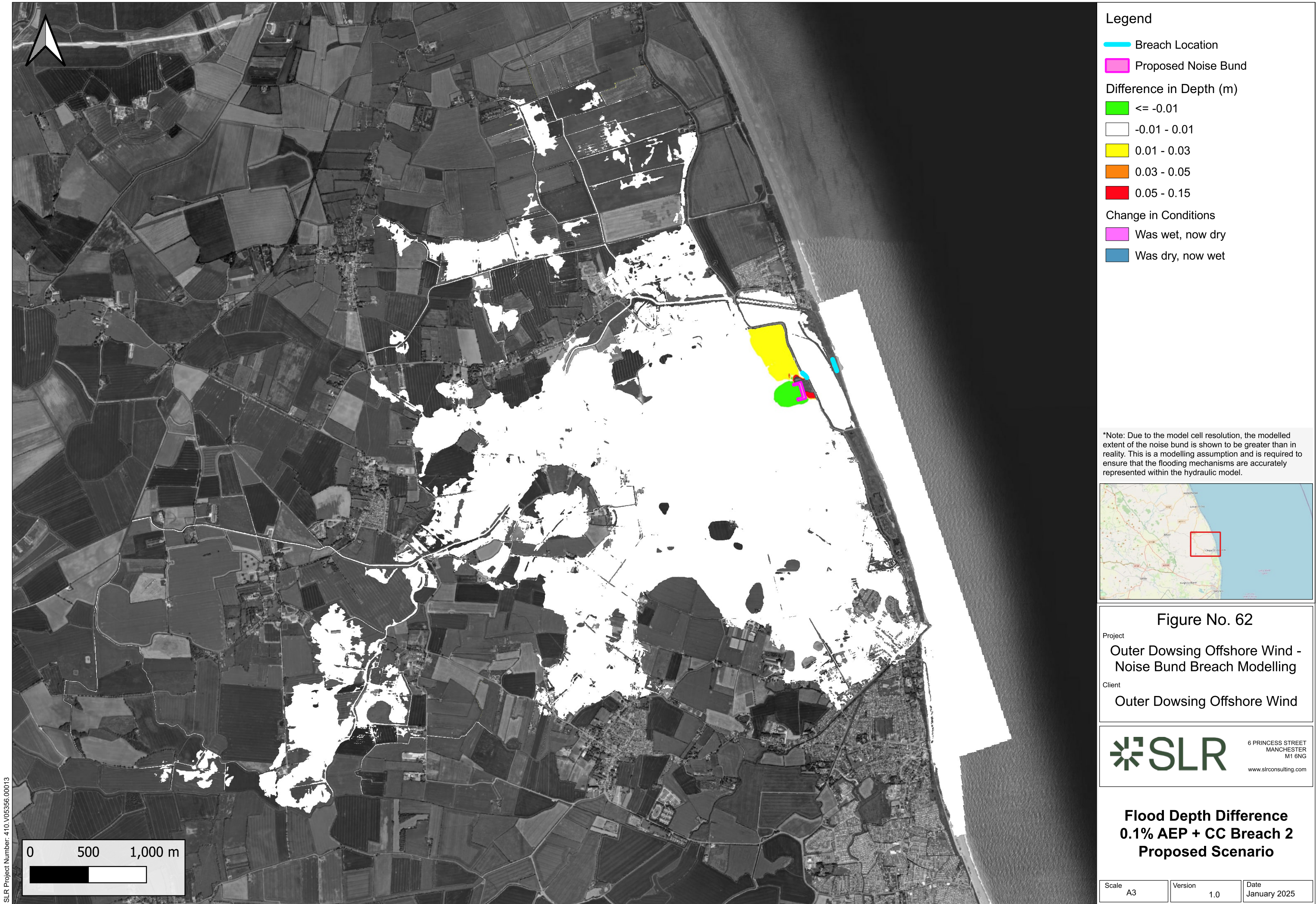
 **SLR**

6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Maximum Flood Hazard
0.1% AEP + CC Breach 2
Proposed Scenario**

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------

SLR Project Number: 410.V05356.00013



Legend

Breach Location

Proposed Noise Bund

Difference in Depth (m)

<= -0.01

-0.01 - 0.01

0.01 - 0.03

0.03 - 0.05

0.05 - 0.15

Change in Conditions

Was wet, now dry

Was dry, now wet

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

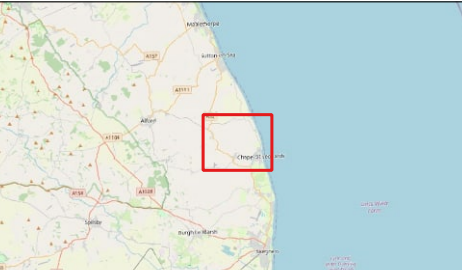


Figure No. 62

Project

Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

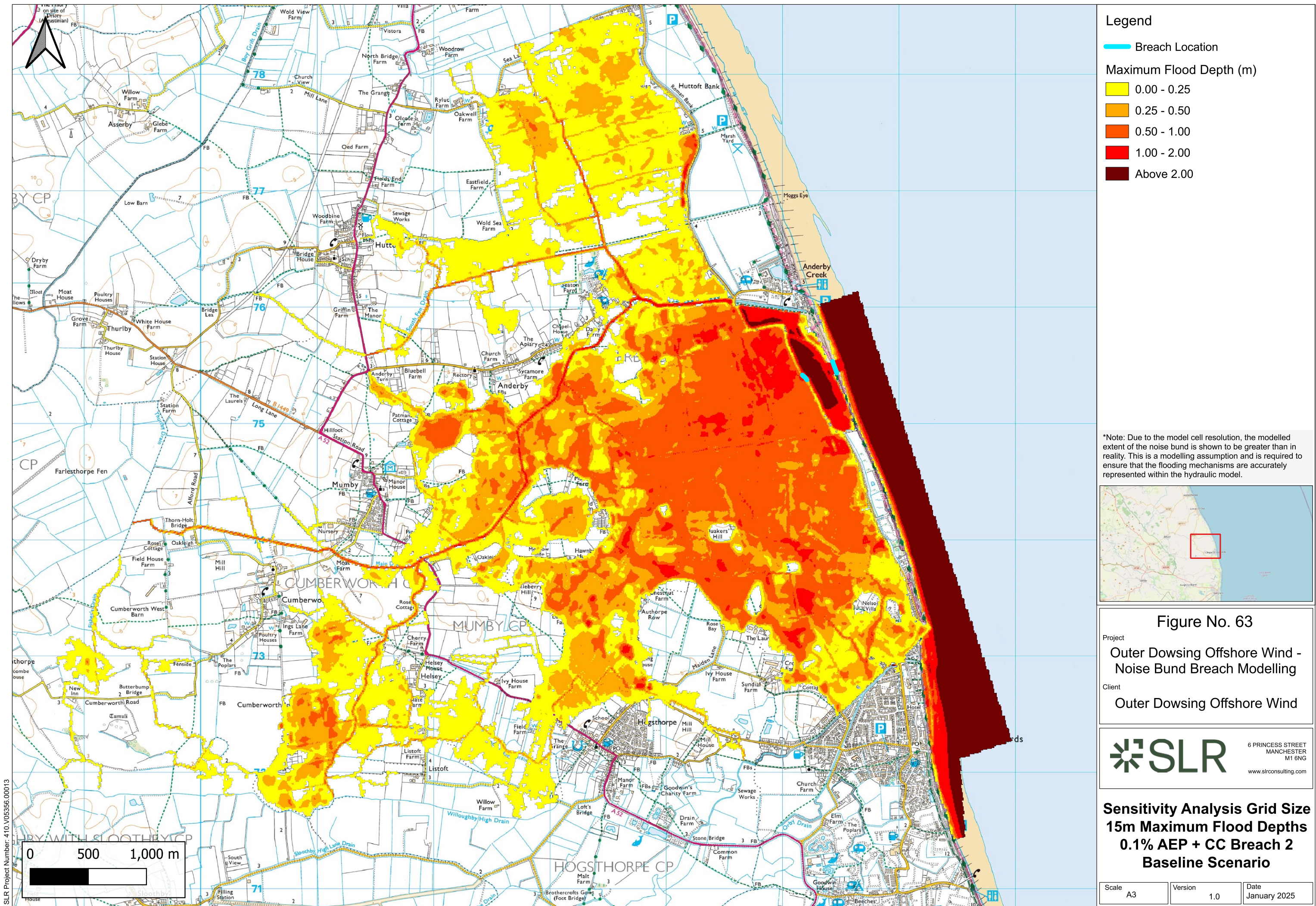
Client

Outer Dowsing Offshore Wind

6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

Flood Depth Difference
0.1% AEP + CC Breach 2
Proposed Scenario

Scale	A3	Version	1.0	Date	January 2025
-------	----	---------	-----	------	--------------



Legend

Breach Location

Maximum Flood Depth (m)

0.00 - 0.25

0.25 - 0.50

0.50 - 1.00

1.00 - 2.00

Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

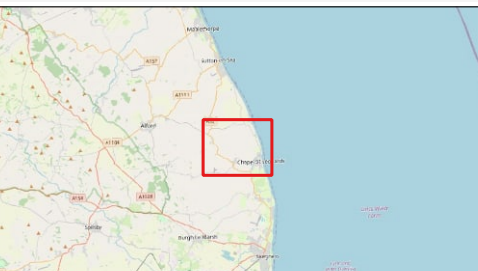


Figure No. 63

Project

Outer Dowsing Offshore Wind -
Noise Bund Breach Modelling

Client

Outer Dowsing Offshore Wind



6 PRINCESS STREET
MANCHESTER
M1 6NG
www.slrconsulting.com

**Sensitivity Analysis Grid Size
15m Maximum Flood Depths
0.1% AEP + CC Breach 2
Baseline Scenario**

Scale

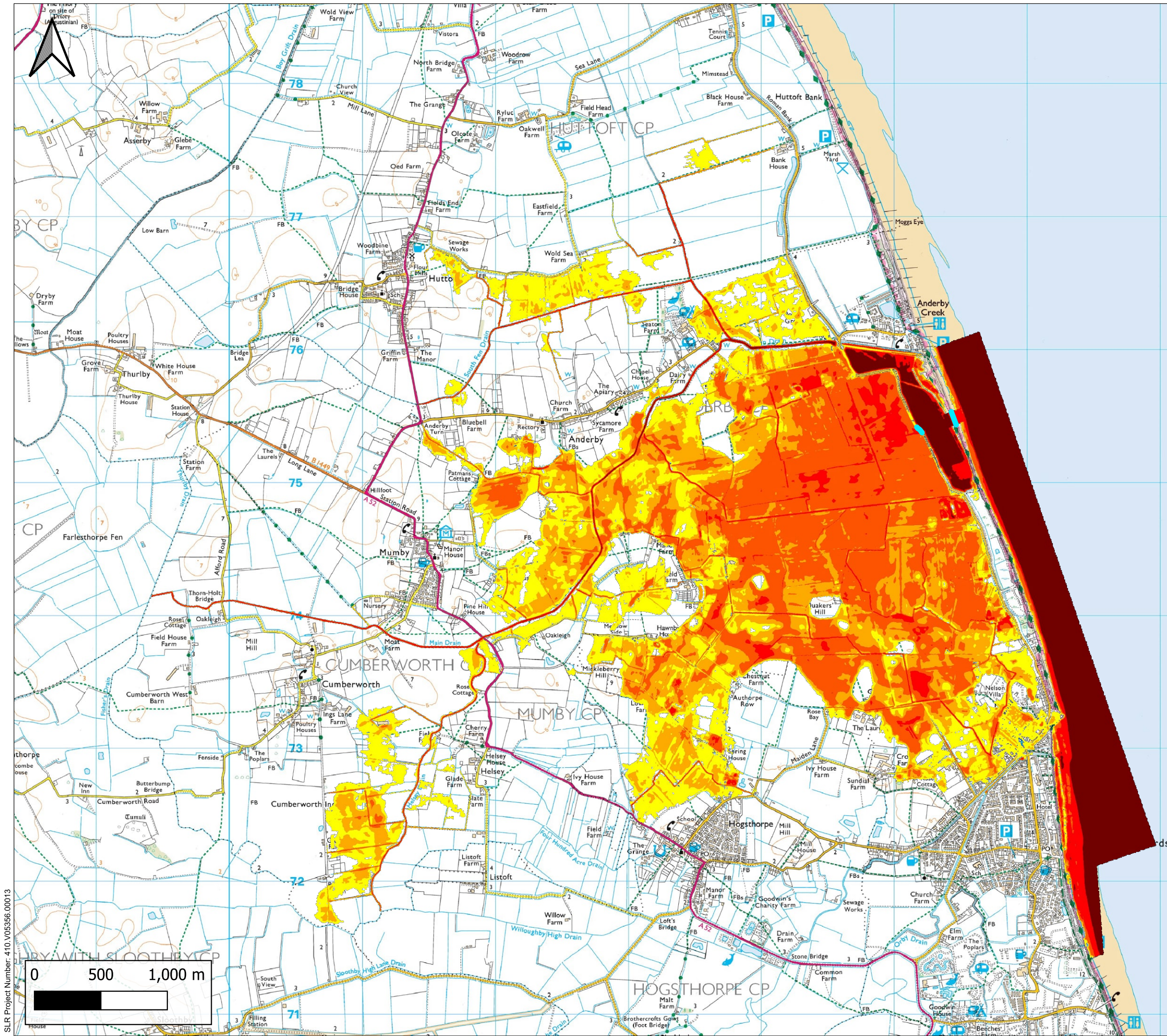
A3

Version

1.0

Date

January 2025



Legend

- Breach Location
- Maximum Flood Depth (m)
 - 0.00 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 2.00
 - Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

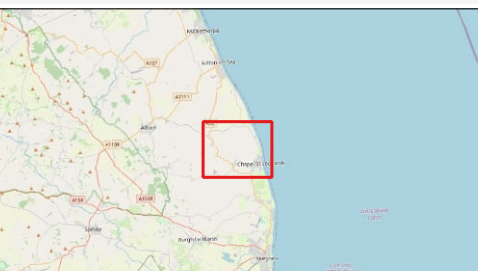


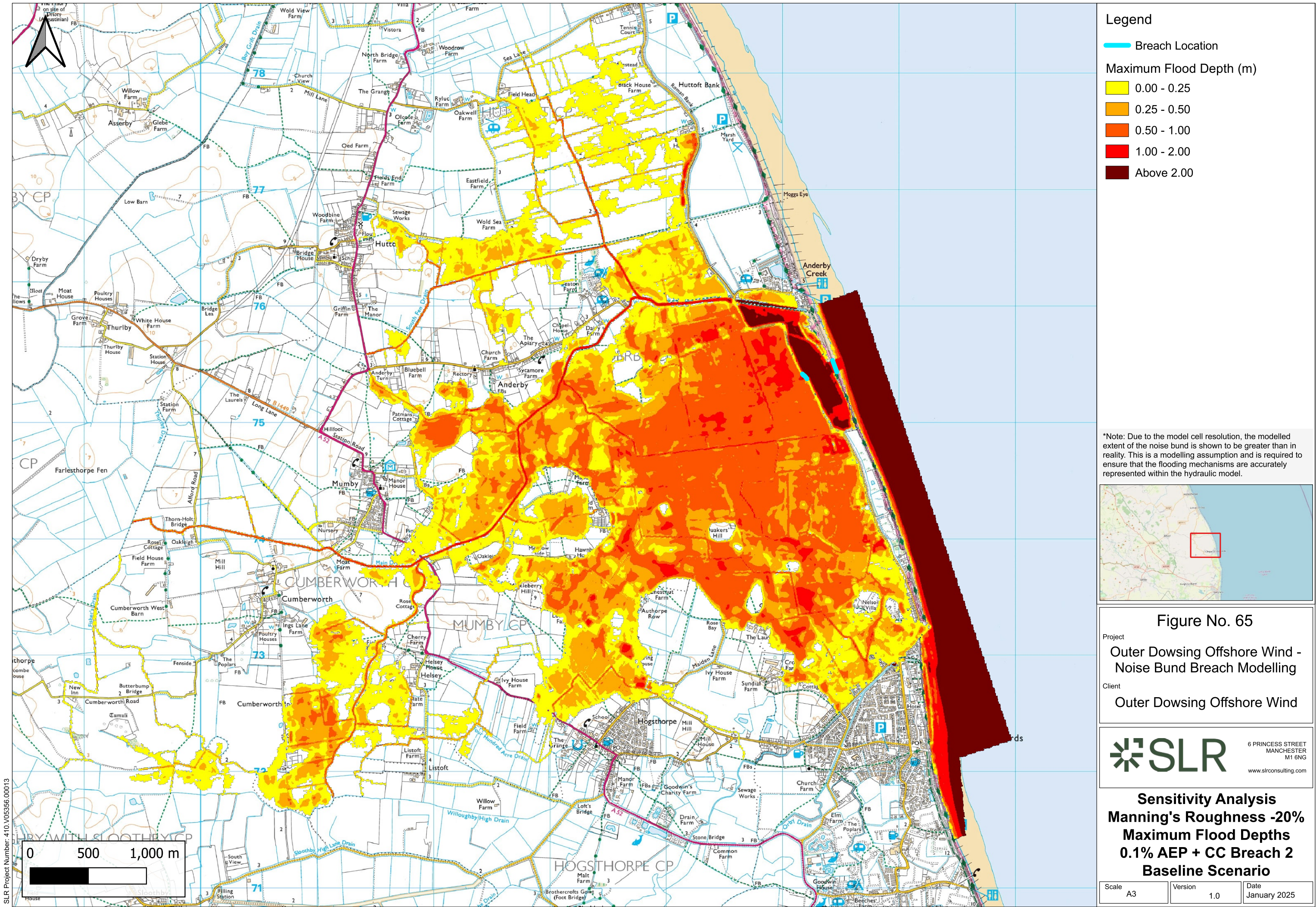
Figure No. 64

Project
Outer Dowsing Offshore Wind -
Noise Bund Breach Modelling
Client
Outer Dowsing Offshore Wind



Sensitivity Analysis Grid Size
5m Maximum Flood Depths
0.1% AEP + CC Breach 2
Baseline Scenario

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------



Legend

Breach Location

Maximum Flood Depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 2.00
- Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

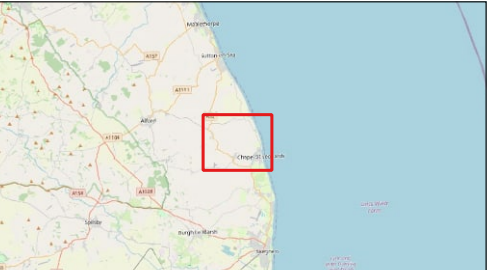


Figure No. 65

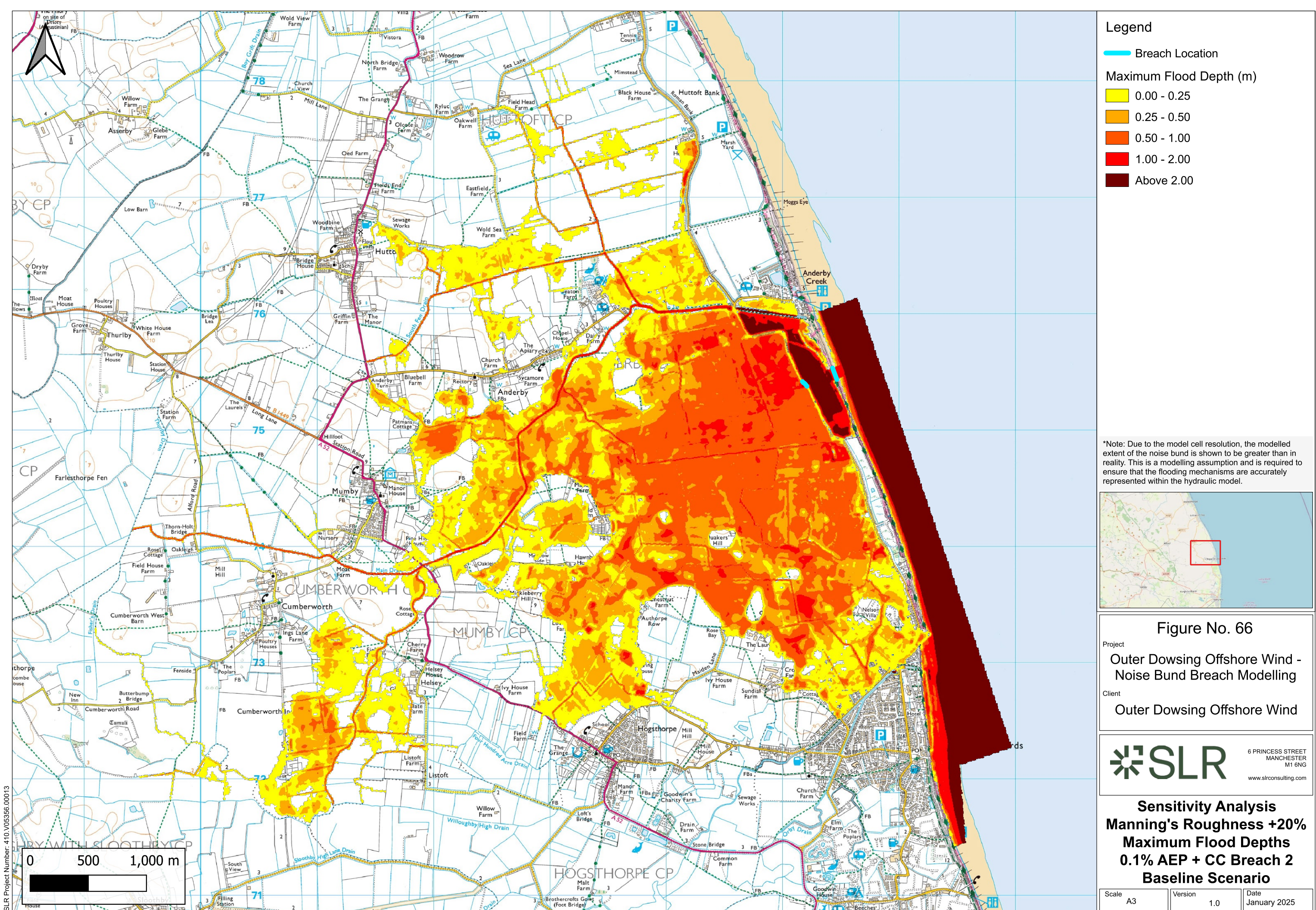
Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client
Outer Dowsing Offshore Wind



Sensitivity Analysis
Manning's Roughness -20%
Maximum Flood Depths
0.1% AEP + CC Breach 2
Baseline Scenario

Scale A3	Version 1.0	Date January 2025
-------------	----------------	----------------------



Legend

- Breach Location
- Maximum Flood Depth (m)
 - 0.00 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 2.00
 - Above 2.00

*Note: Due to the model cell resolution, the modelled extent of the noise bund is shown to be greater than in reality. This is a modelling assumption and is required to ensure that the flooding mechanisms are accurately represented within the hydraulic model.

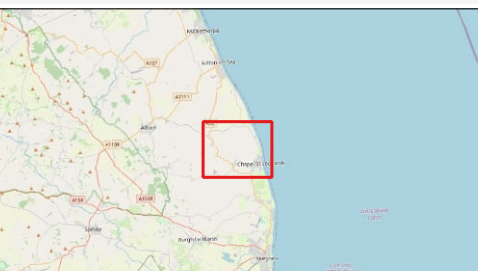


Figure No. 66

Project
Outer Dowsing Offshore Wind - Noise Bund Breach Modelling

Client
Outer Dowsing Offshore Wind



Sensitivity Analysis
Manning's Roughness +20%
Maximum Flood Depths
0.1% AEP + CC Breach 2
Baseline Scenario

Scale	A3	Version	1.0	Date	January 2025
-------	----	---------	-----	------	--------------

