



The Sizewell C Project

5.2 Main Development Site Flood Risk Assessment Addendum Appendices A-F Part 9 of 10

Revision: 1.0
Applicable Regulation: Regulation 5(2)(e)
PINS Reference Number: EN010012

January 2021

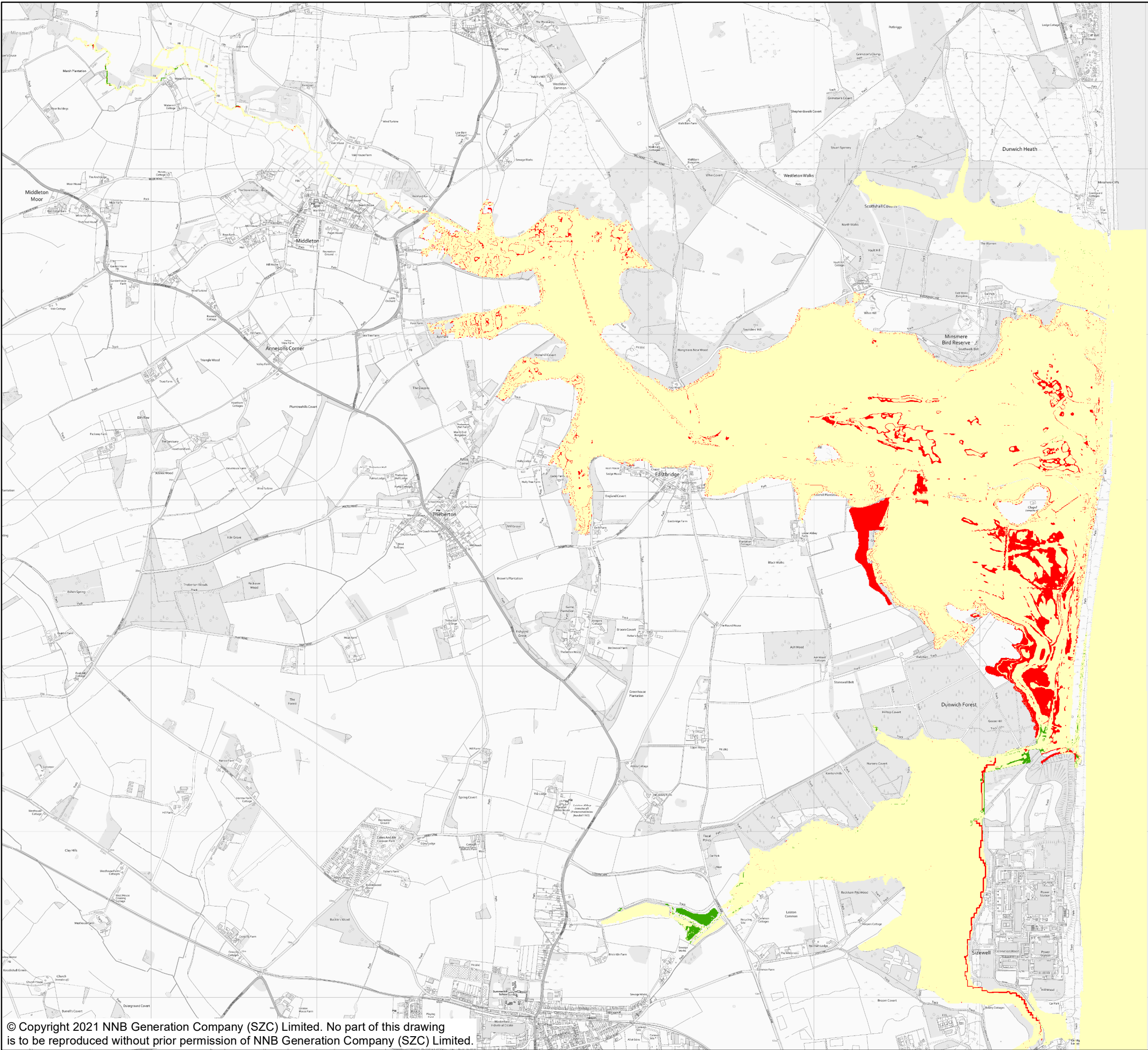
Planning Act 2008
Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009



MAIN DEVELOPMENT SITE FLOOD RISK ASSESSMENT ADDENDUM APPENDICES

Documents included within this issue are as follows:

- Appendix A: Extract of the Environment Agency Relevant Representation Related to Flood Risk
- Appendix B: Collated Comments from the Environment Agency on 5th February 2020 and 4th August 2020
- Appendix C: Fluvial Modelling Report Addendum
- **Appendix D: Tidal Breach and Coastal Inundation Modelling Report Addendum (Continued from Part 8 of 10)**
- Appendix E: Coastal Wave Overtopping Modelling Report Addendum
- Appendix F: Main Development Site Flood Risk Emergency Plan



NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
- NO CHANGE
- HAZARD RATING CLASS DECREASE

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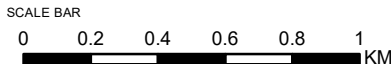


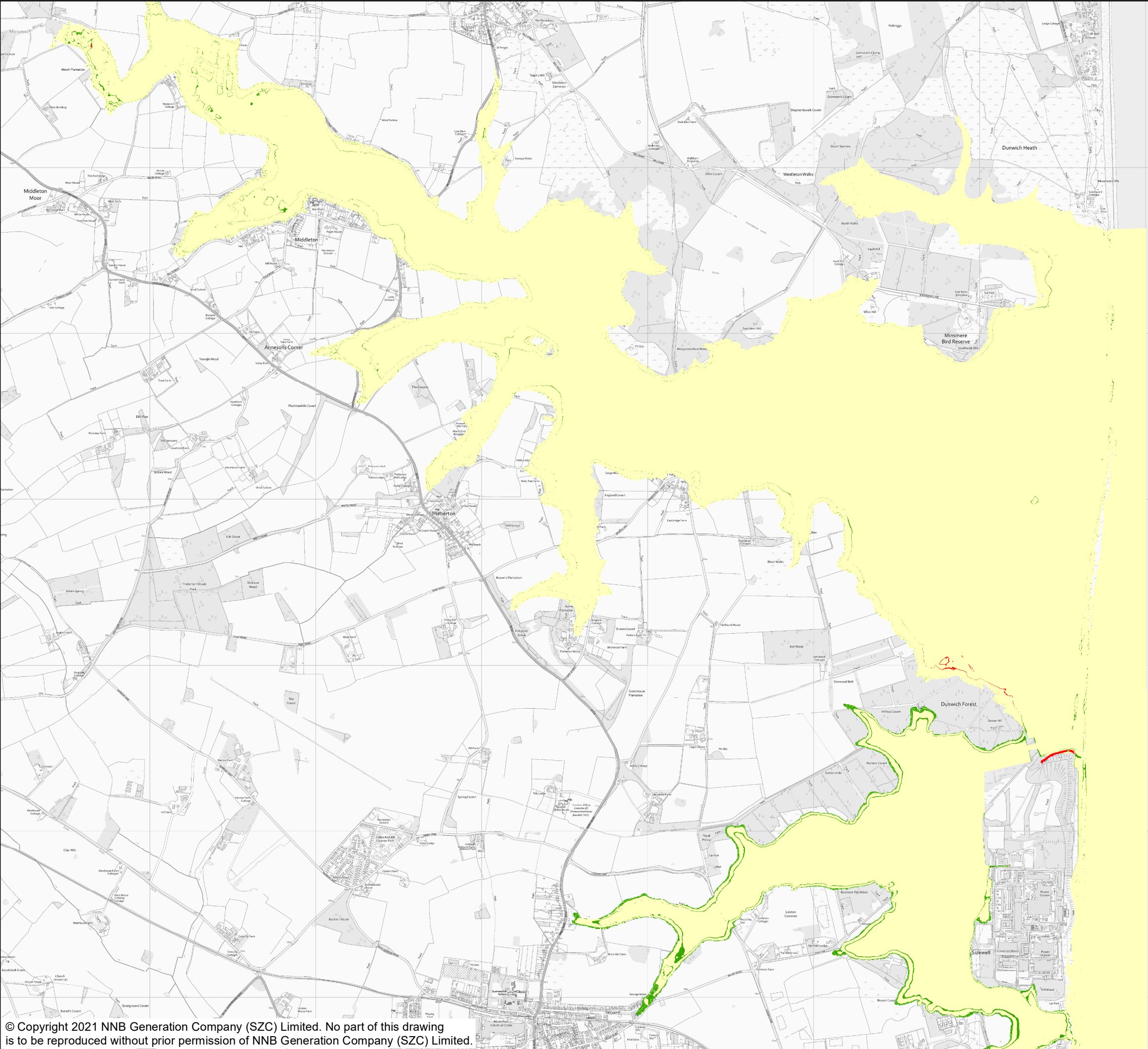
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FLOOD RISK ASSESSMENT ADDENDUM
COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 200-YEAR
COASTAL INUNDATION EVENT 2090 EPOCH

DRAWING NO:
FIGURE C.14

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
- NO CHANGE
- HAZARD RATING CLASS DECREASE

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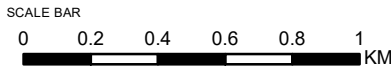


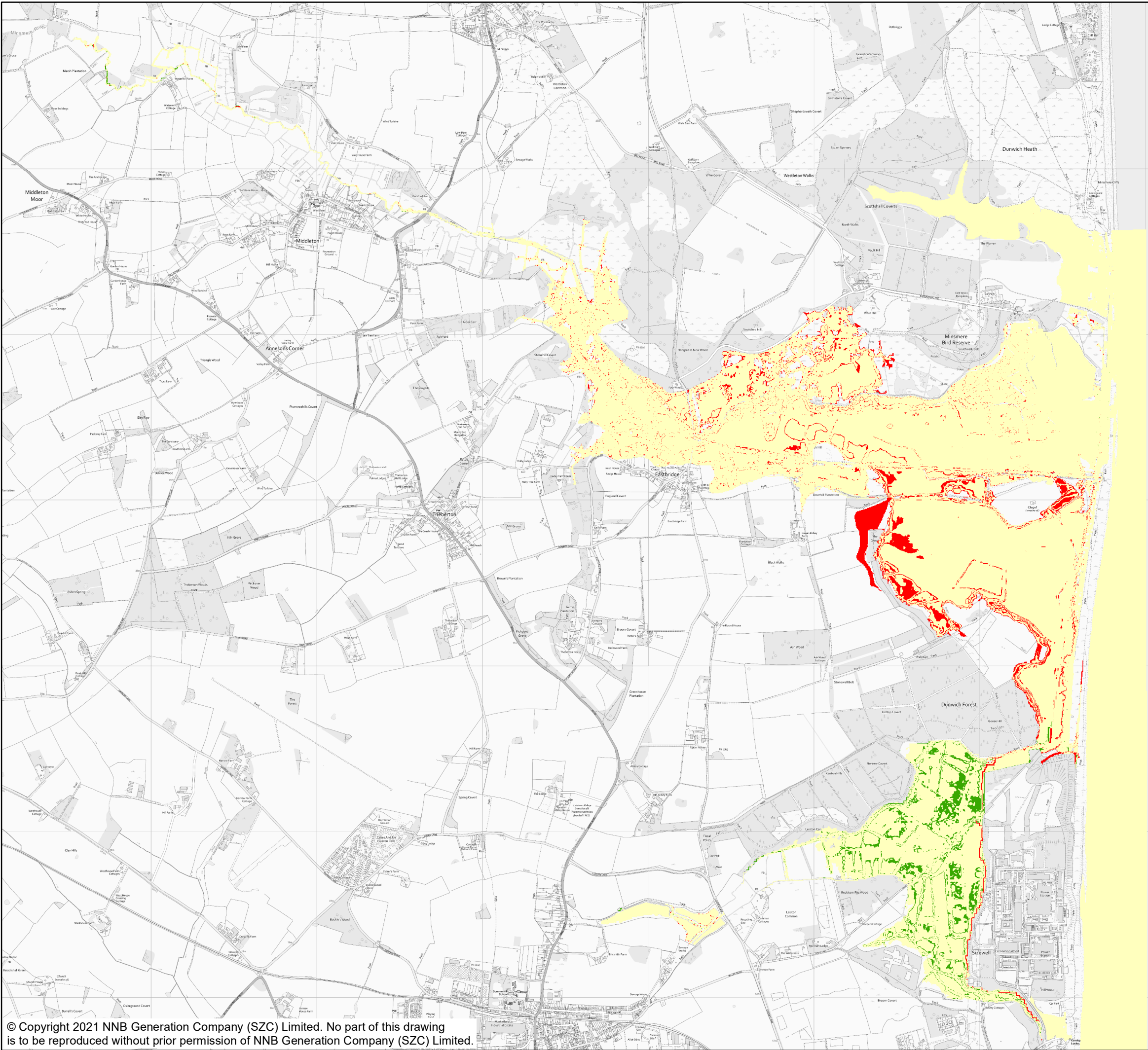
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FLOOD RISK ASSESSMENT ADDENDUM
COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 200-YEAR
COASTAL INUNDATION EVENT 2190 EPOCH

DRAWING NO:
FIGURE C.15

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
- NO CHANGE
- HAZARD RATING CLASS DECREASE

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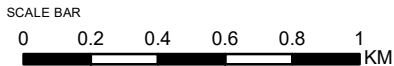


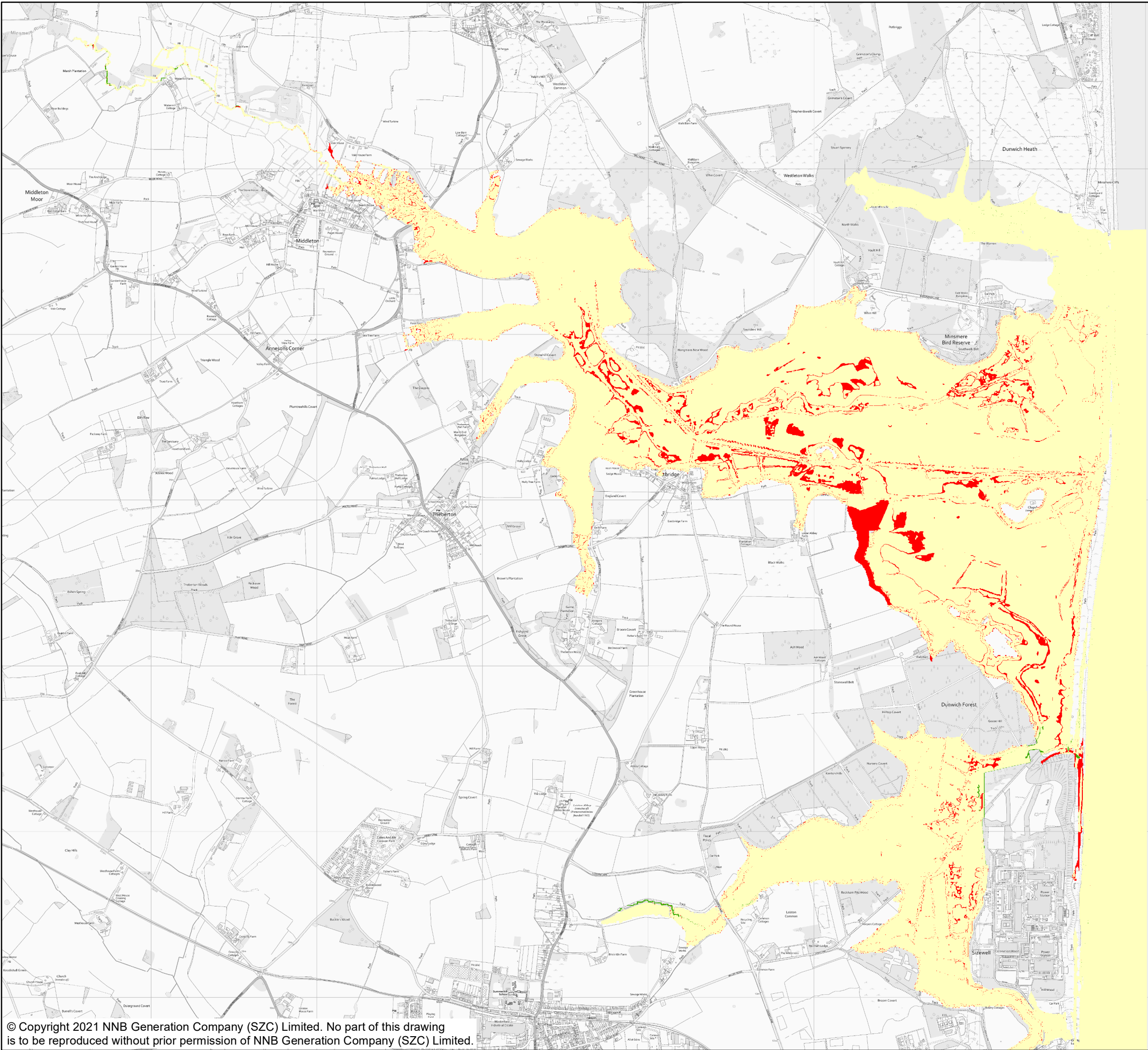
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 1000-YEAR
COASTAL INUNDATION EVENT 2030 EPOCH

DRAWING NO:
FIGURE C.16

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
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- HAZARD RATING CLASS DECREASE

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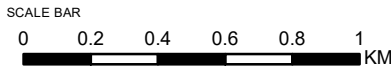


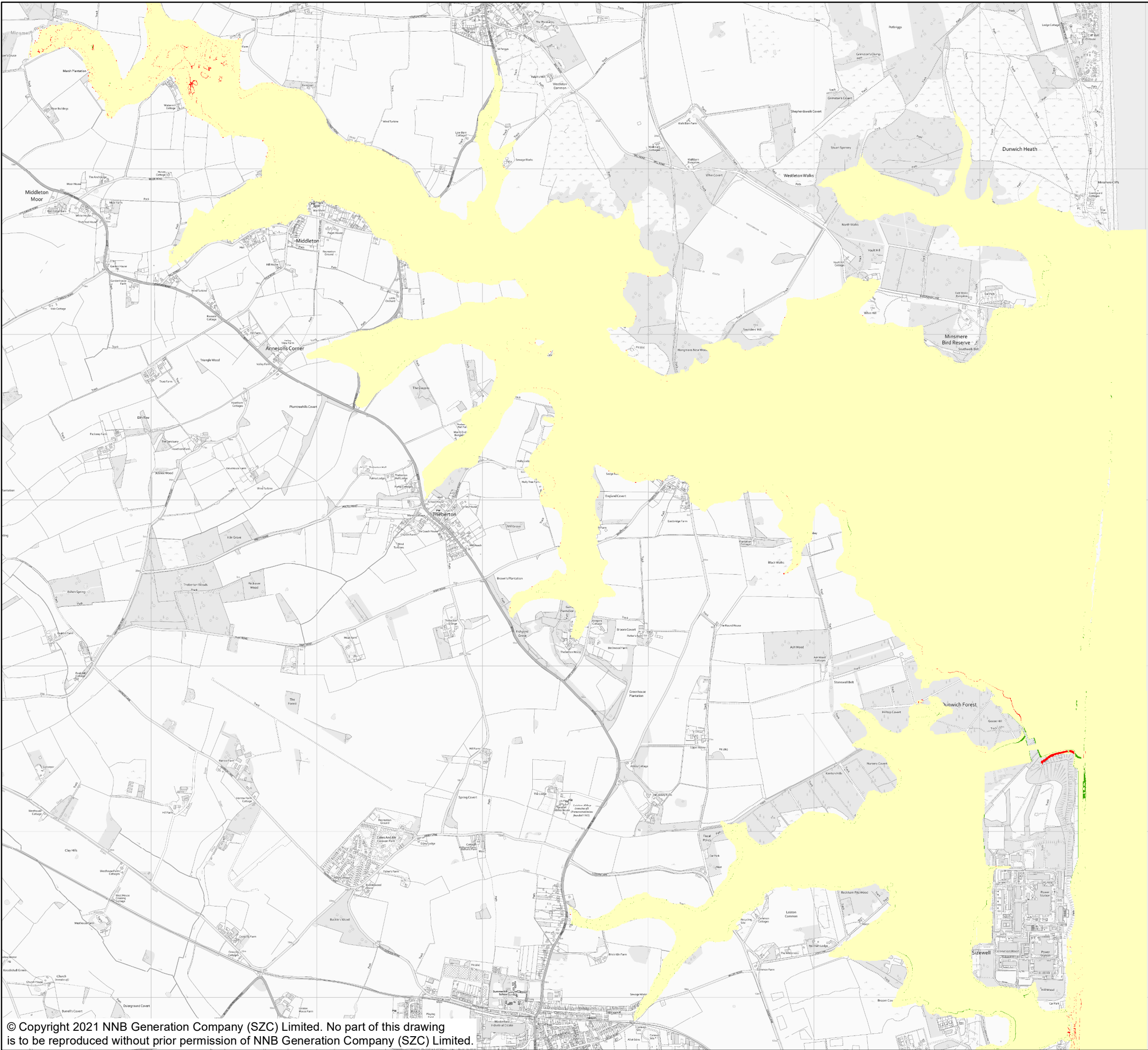
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COASTAL MODELLING RESULTS

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DIFFERENCE IN FLOOD HAZARD 1000-YEAR
COASTAL INUNDATION EVENT 2090 EPOCH

DRAWING NO:
FIGURE C.17

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD HAZARD

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- HAZARD RATING CLASS DECREASE

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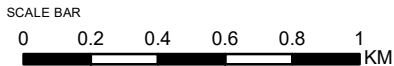


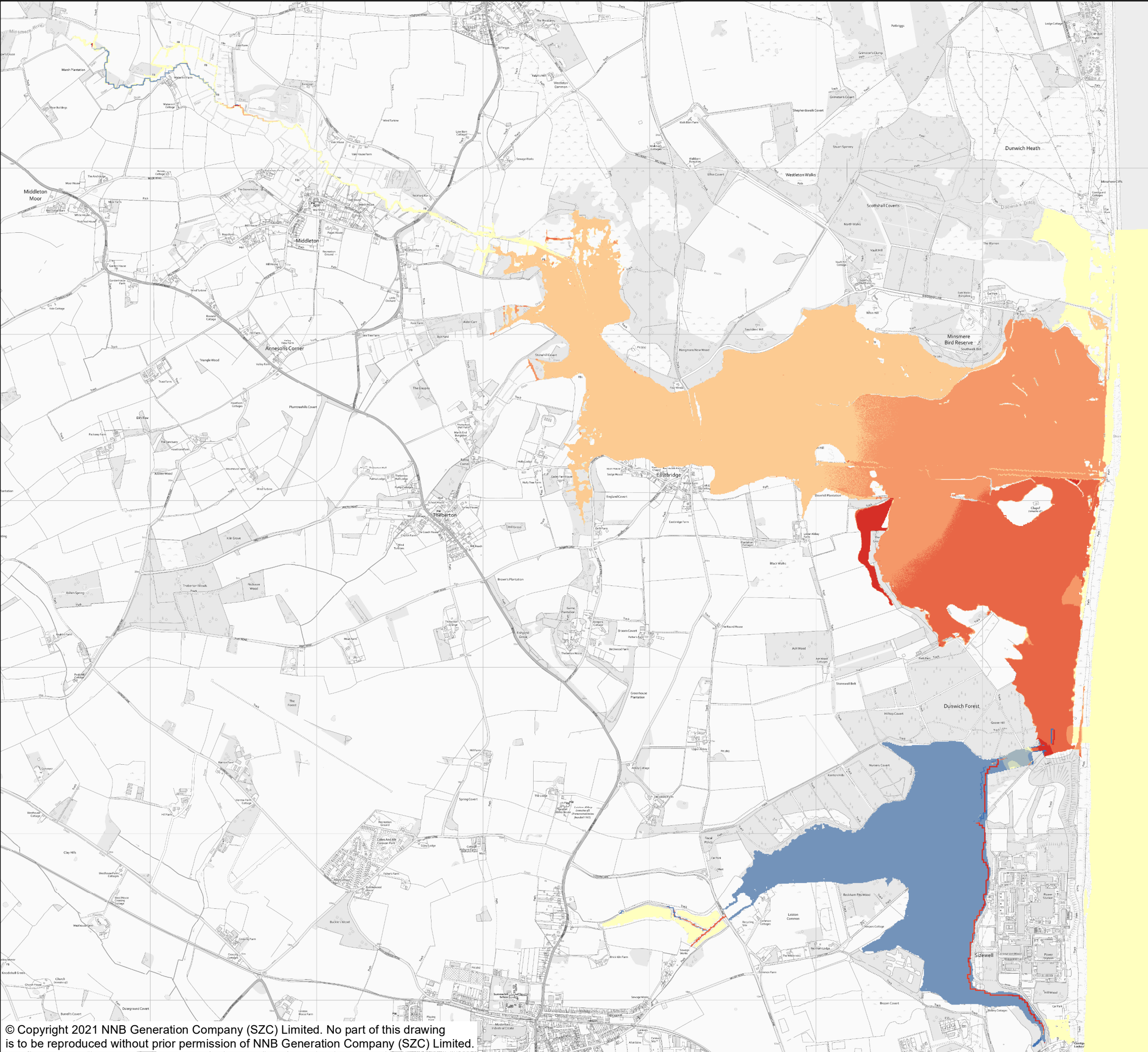
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 1000-YEAR
COASTAL INUNDATION EVENT 2190 EPOCH

DRAWING NO:
FIGURE C.18

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD DEPTH DIFFERENCE (m)

- 0.3 - 2.5
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 6 - -0.3

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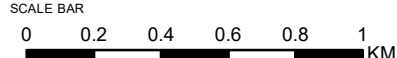


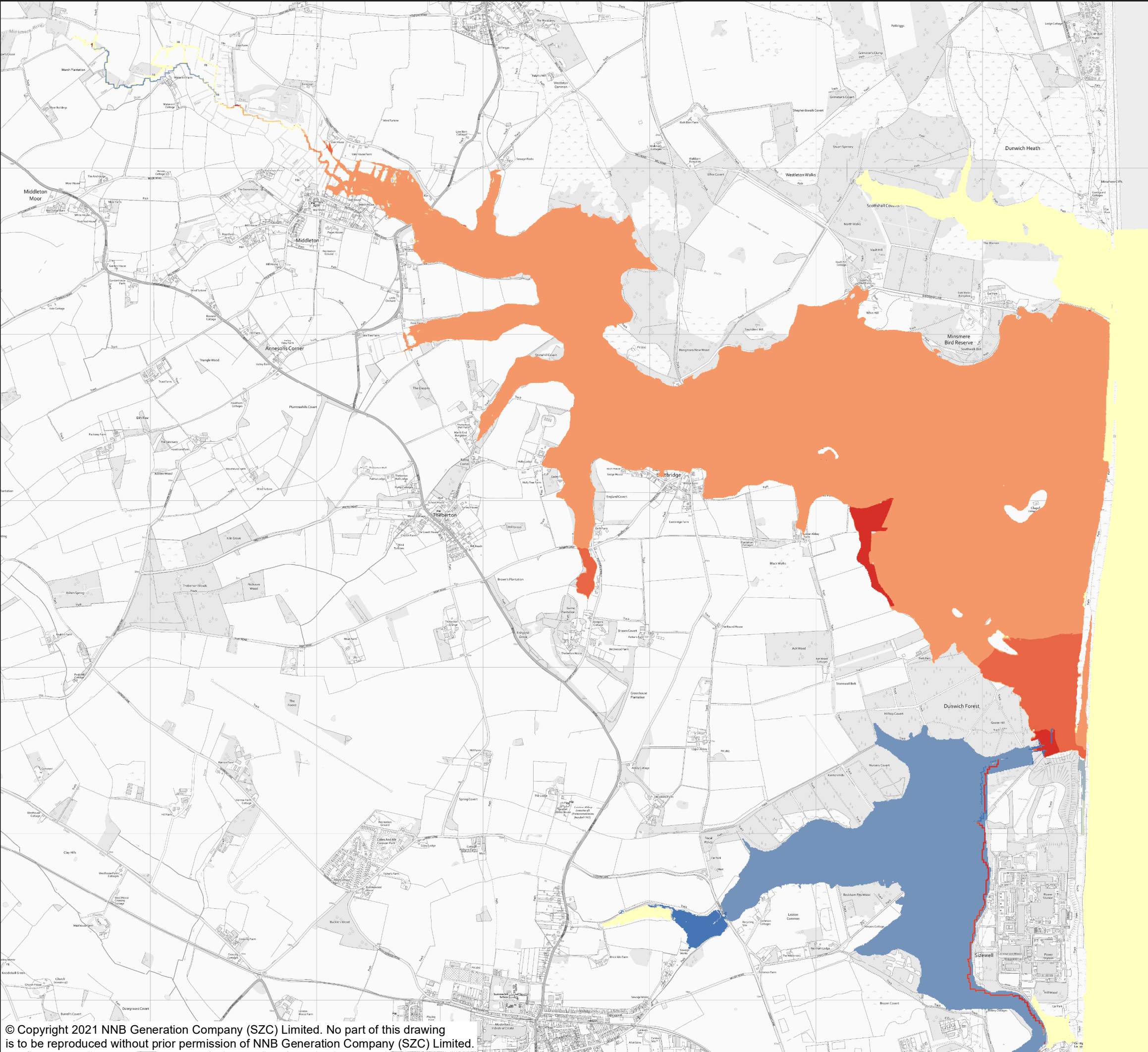
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COASTAL MODELLING RESULTS

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DIFFERENCE IN FLOOD DEPTH 200-YEAR
BREACH EVENT 2030 EPOCH

DRAWING NO:
FIGURE C.19

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD DEPTH DIFFERENCE (m)

- 0.3 - 2.5
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 0.6 - -0.3

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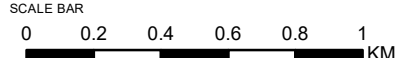


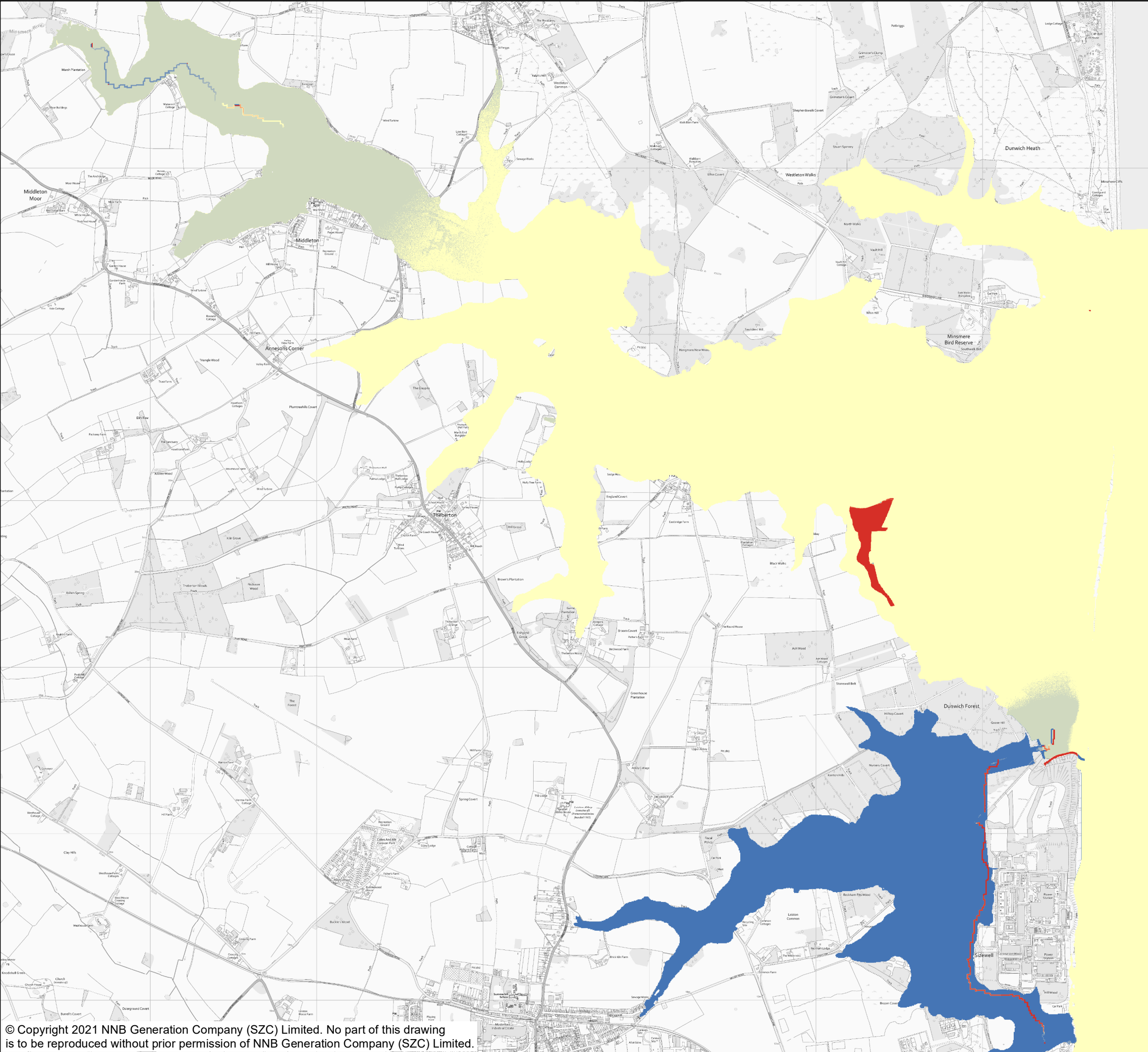
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COASTAL MODELLING RESULTS

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BREACH EVENT 2090 EPOCH

DRAWING NO:
FIGURE C.20

DATE: JAN 2021 **DRAWN:** E.H. **SCALE:** 1:22,500 @A3 **REVISION:** 2.0





NOTES

KEY

FLOOD DEPTH DIFFERENCE (m)

- 0.3 - 2.5
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 6 - -0.3

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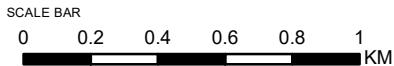


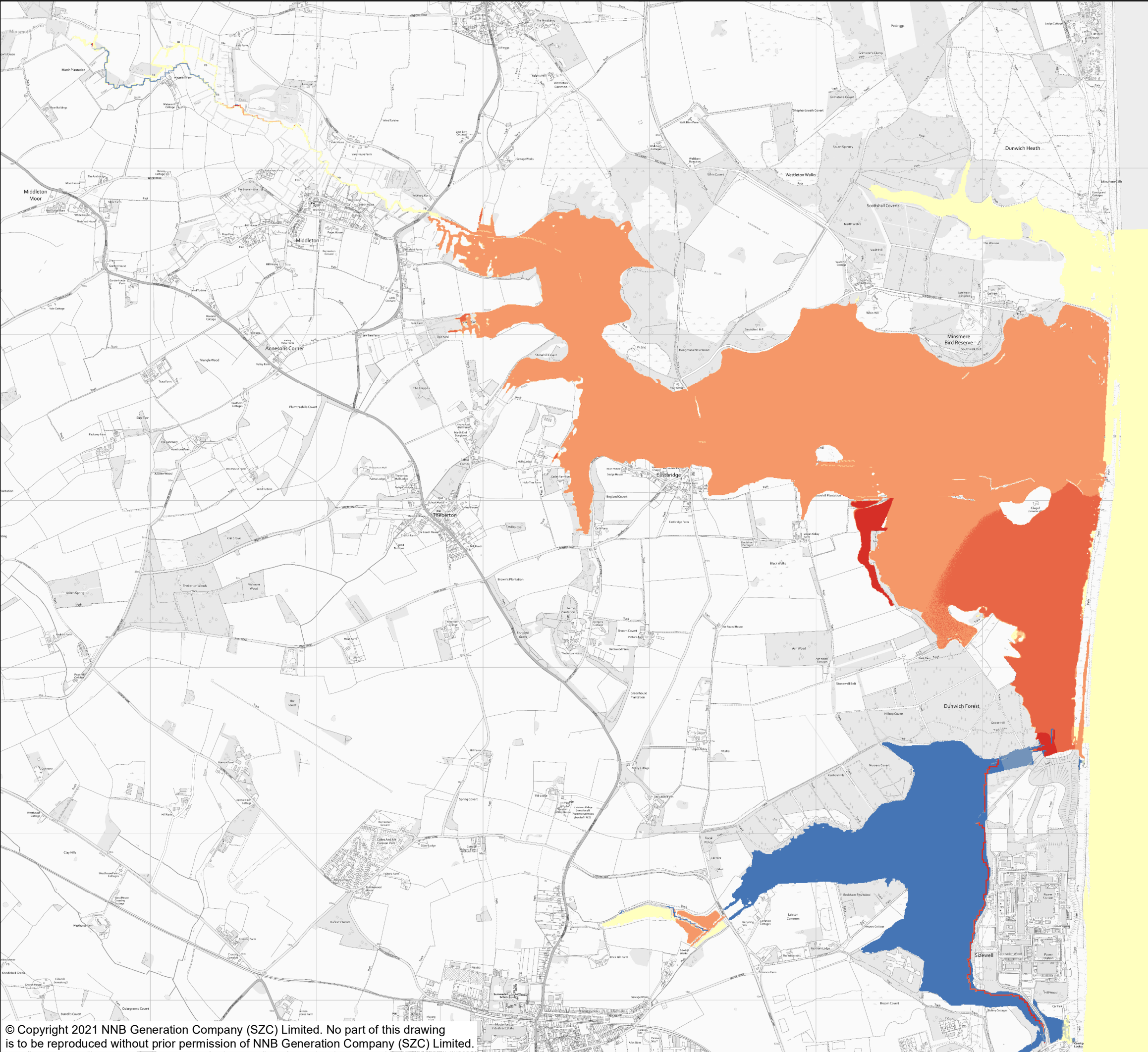
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD DEPTH 200-YEAR
BREACH EVENT 2190 EPOCH

DRAWING NO:
FIGURE C.21

DATE: JAN 2021 **DRAWN:** E.H. **SCALE:** 1:22,500 @A3 **REVISION:** 2.0





NOTES

KEY

FLOOD DEPTH DIFFERENCE (m)

- 0.3 - 2.5
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 6 - -0.3

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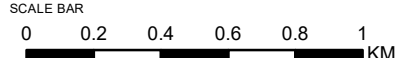


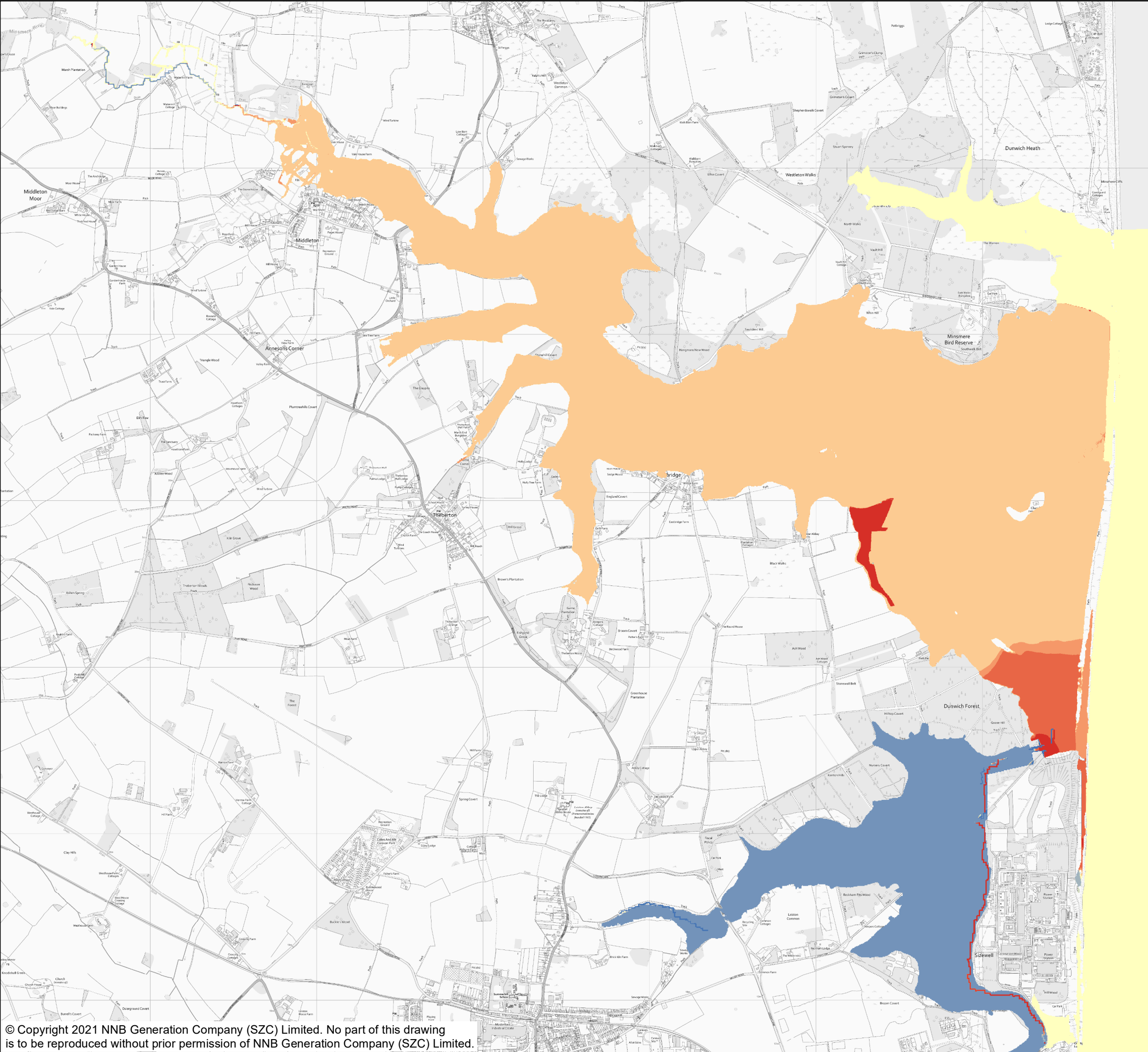
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD DEPTH 1000-YEAR
BREACH EVENT 2030 EPOCH

DRAWING NO:
FIGURE C.22

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD DEPTH DIFFERENCE (m)

- 0.3 - 2.5
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 6 - -0.3

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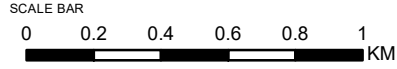


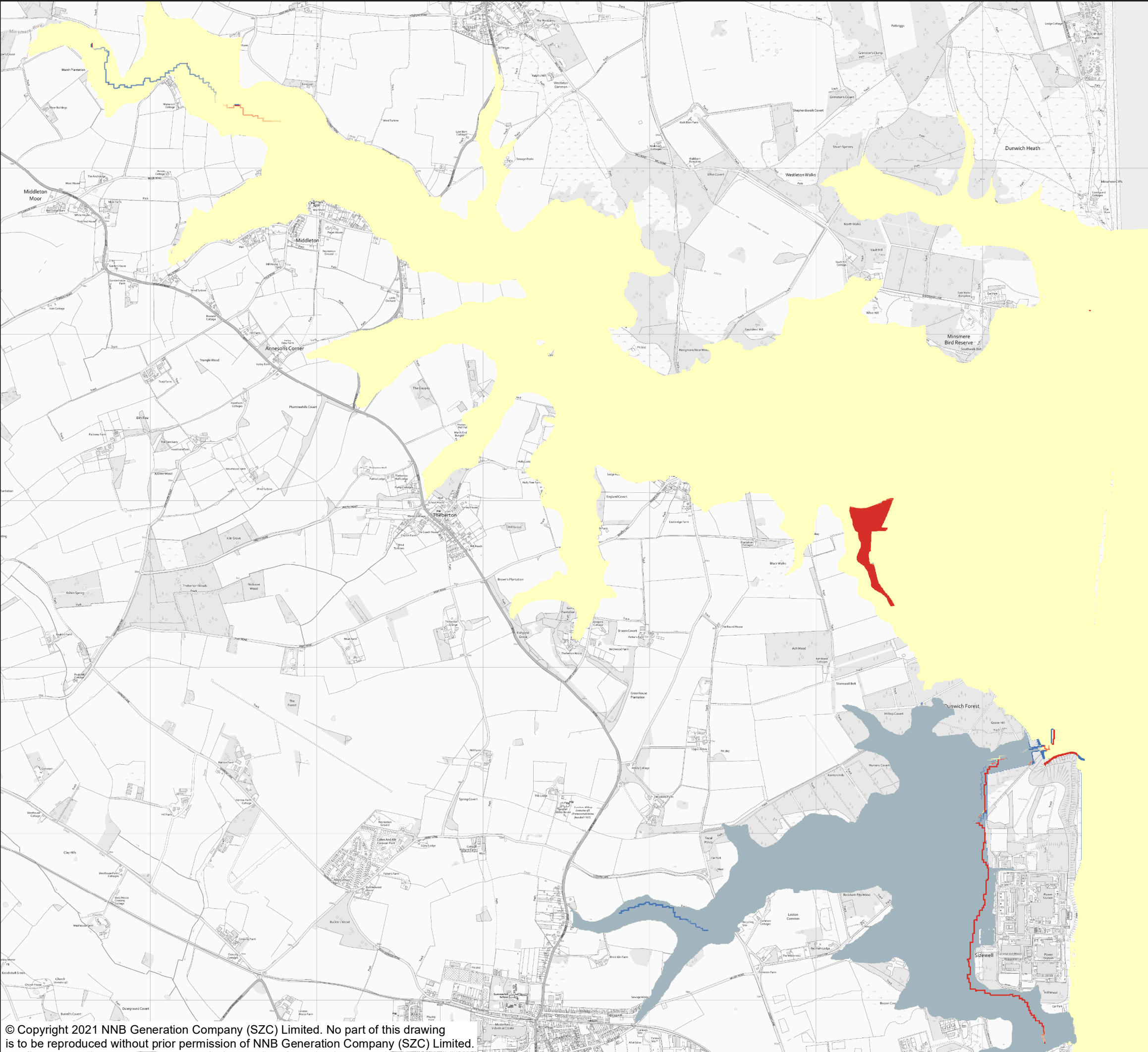
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD DEPTH 1000-YEAR
BREACH EVENT 2090 EPOCH

DRAWING NO:
FIGURE C.23

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD DEPTH DIFFERENCE (m)

- 0.3 - 2.5
- 0.1 - 0.3
- 0.03 - 0.1
- 0.01 - 0.03
- 0
- 0.03 - -0.01
- 0.1 - -0.03
- 0.3 - -0.1
- 6 - -0.3

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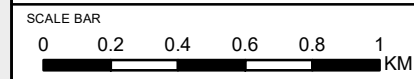
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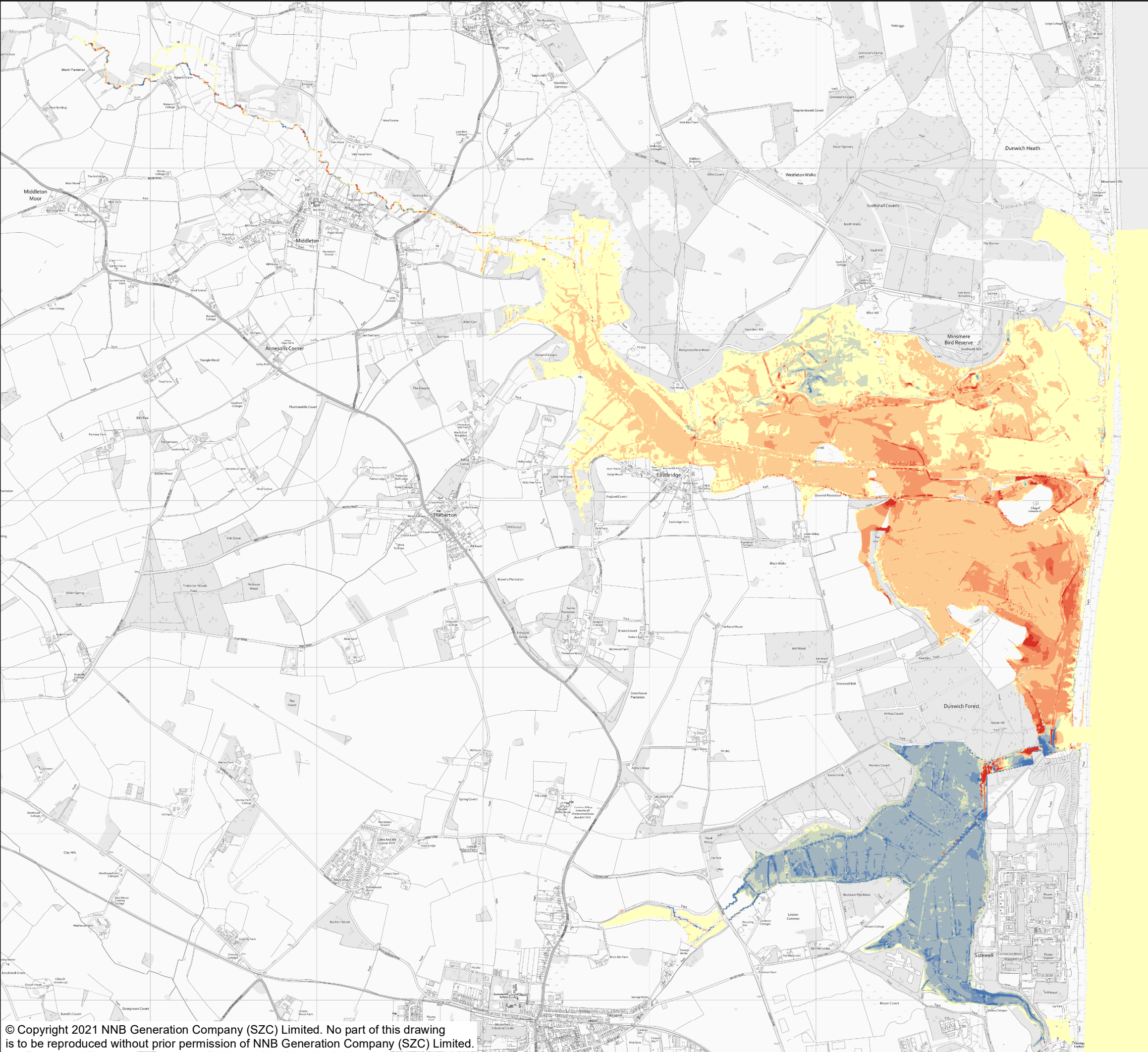


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FLOOD RISK ASSESSMENT ADDENDUM
COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD DEPTH 1000-YEAR
BREACH EVENT 2190 EPOCH

DRAWING NO:
FIGURE C.24
DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY
FLOOD VELOCITY DIFFERENCE (M/S)

[Red]	0.15 - 2
[Dark Orange]	0.1 - 0.15
[Orange]	0.05 - 0.1
[Light Orange]	0.01 - 0.05
[Yellow]	0
[Light Green]	-0.05 - -0.01
[Grey]	-0.01 - -0.05
[Dark Blue]	-0.15 - -0.1
[Blue]	-2.5 - -0.15

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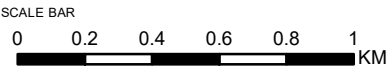


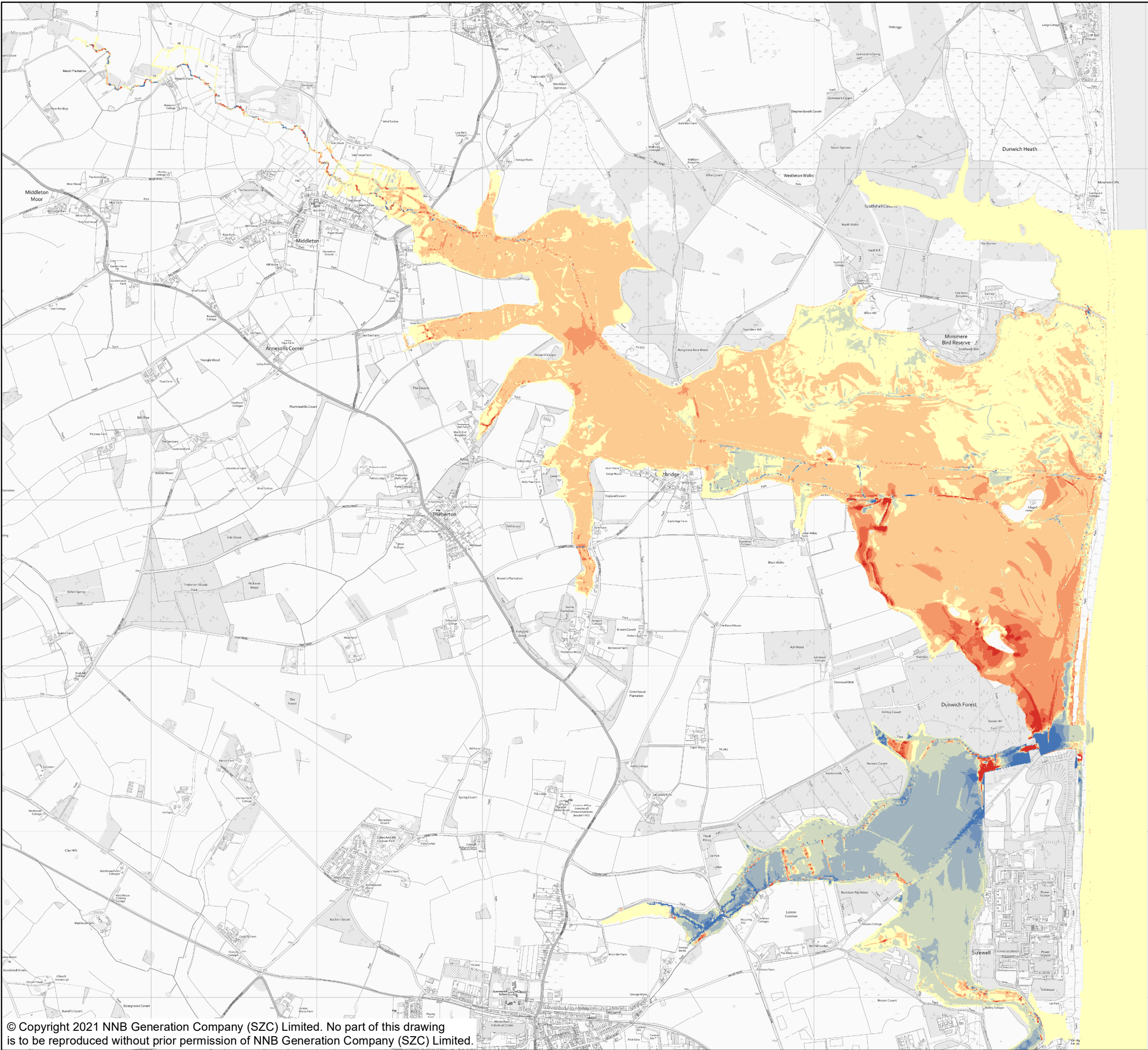
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD VELOCITY 200-YEAR
BREACH EVENT 2030 EPOCH

DRAWING NO:
FIGURE C.25

DATE:	DRAWN:	SCALE:	REVISION:
JAN 2021	E.H.	1:22,500 @A3	2.0





NOTES

KEY

FLOOD VELOCITY DIFFERENCE (M/S)

- 0.15 - 2
- 0.1 - 0.15
- 0.05 - 0.1
- 0.01 - 0.05
- 0
- 0.05 - -0.01
- 0.01 - -0.05
- 0.15 - -0.1
- 2.5 - -0.15

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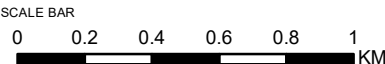


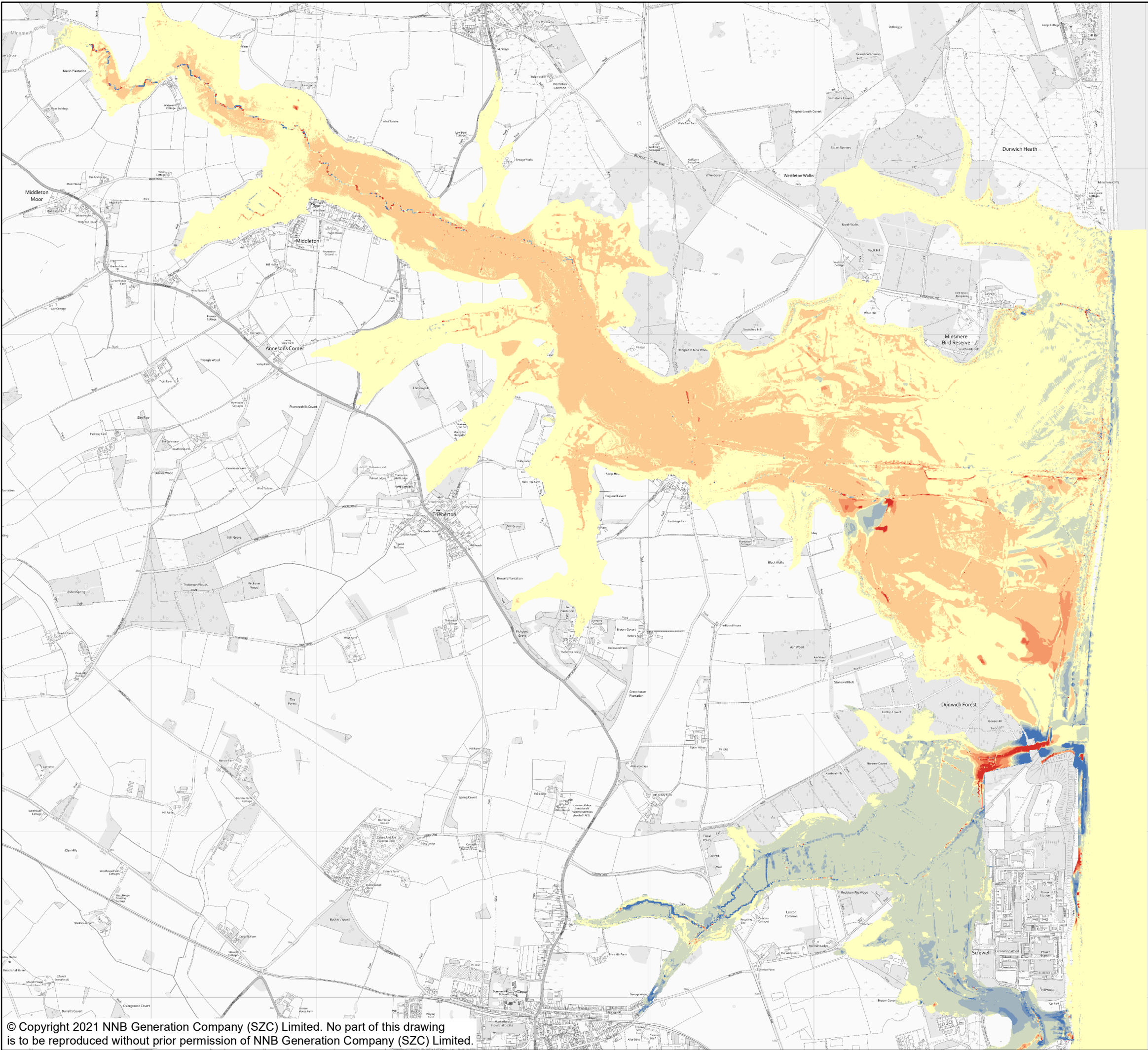
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD VELOCITY 200-YEAR
BREACH EVENT 2090 EPOCH

DRAWING NO:
FIGURE C.26

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD VELOCITY DIFFERENCE (M/S)

- 0.15 - 2
- 0.1 - 0.15
- 0.05 - 0.1
- 0.01 - 0.05
- 0
- 0.05 - -0.01
- 0.01 - -0.05
- 0.15 - -0.1
- 2.5 - -0.15

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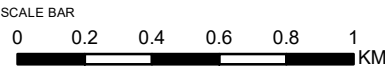


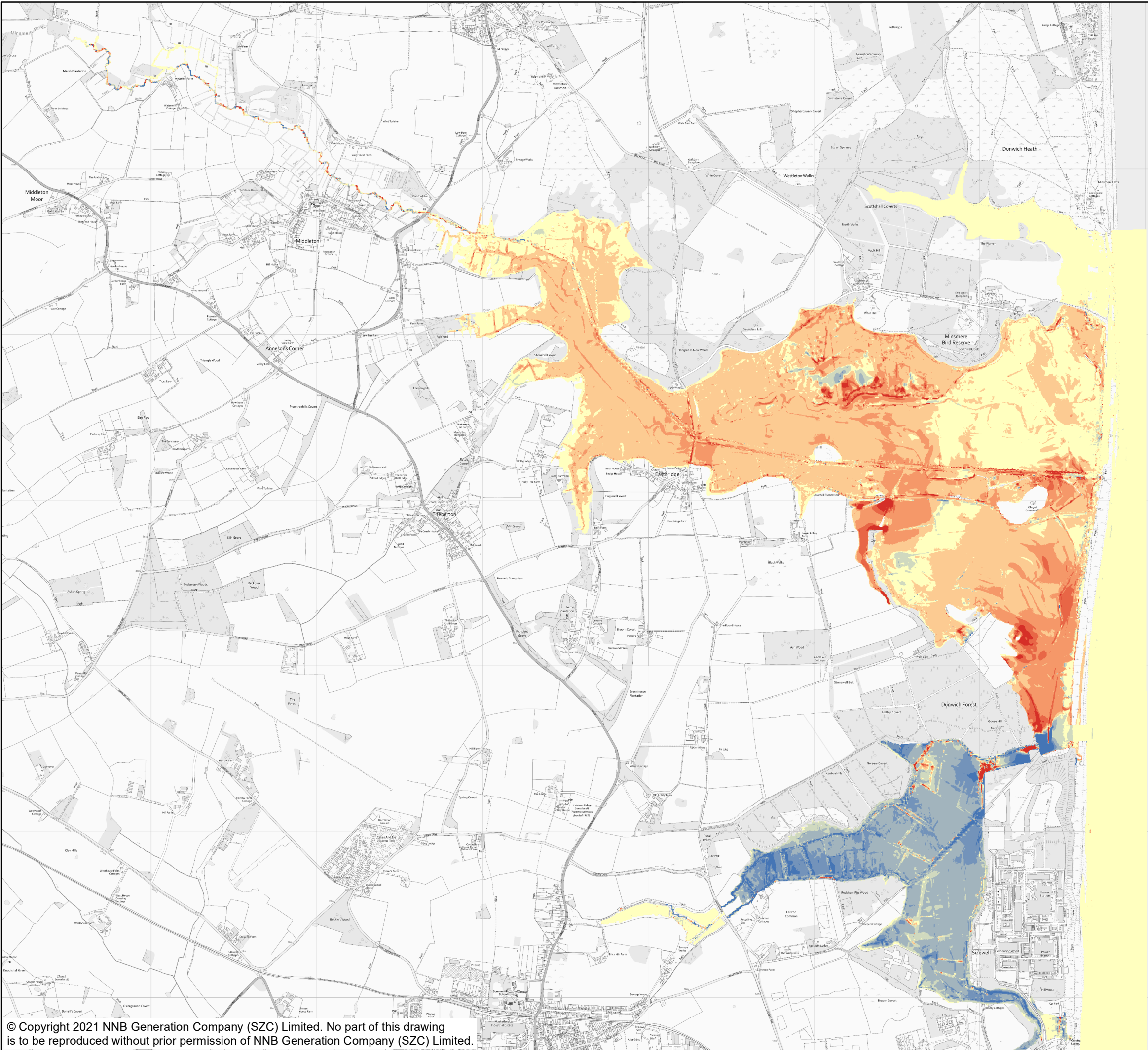
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COASTAL MODELLING RESULTS

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DIFFERENCE IN FLOOD VELOCITY 200-YEAR
BREACH EVENT 2190 EPOCH

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FIGURE C.27

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY
FLOOD VELOCITY DIFFERENCE (M/S)

0.15 - 2
0.1 - 0.15
0.05 - 0.1
0.01 - 0.05
0
-0.05 - -0.01
-0.01 - -0.05
-0.15 - -0.1
-2.5 - -0.15

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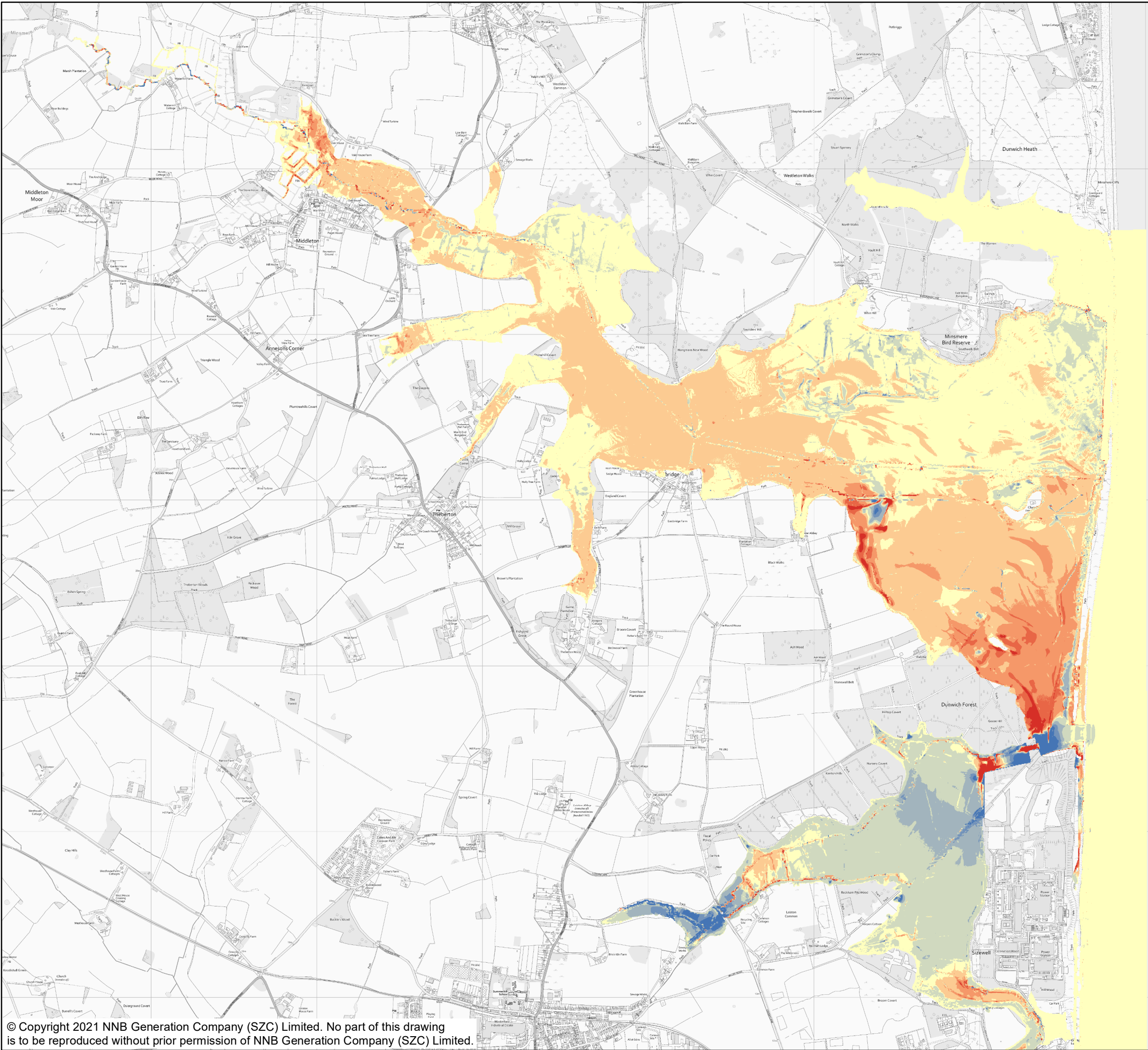
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COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD VELOCITY 1000-YEAR
BREACH EVENT 2030 EPOCH

DRAWING NO:
FIGURE C.28

DATE: JAN 2021	DRAWN: E.H.	SCALE: 1:22,500 @A3	REVISION: 2.0
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SCALE BAR
0 0.2 0.4 0.6 0.8 1 KM



NOTES

KEY
FLOOD VELOCITY DIFFERENCE (M/S)

[Red]	0.15 - 2
[Dark Orange]	0.1 - 0.15
[Orange]	0.05 - 0.1
[Light Orange]	0.01 - 0.05
[Yellow]	0
[Light Green]	-0.05 - -0.01
[Green]	-0.01 - -0.05
[Dark Green]	-0.15 - -0.1
[Blue]	-2.5 - -0.15

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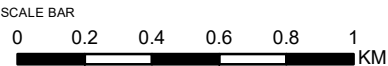


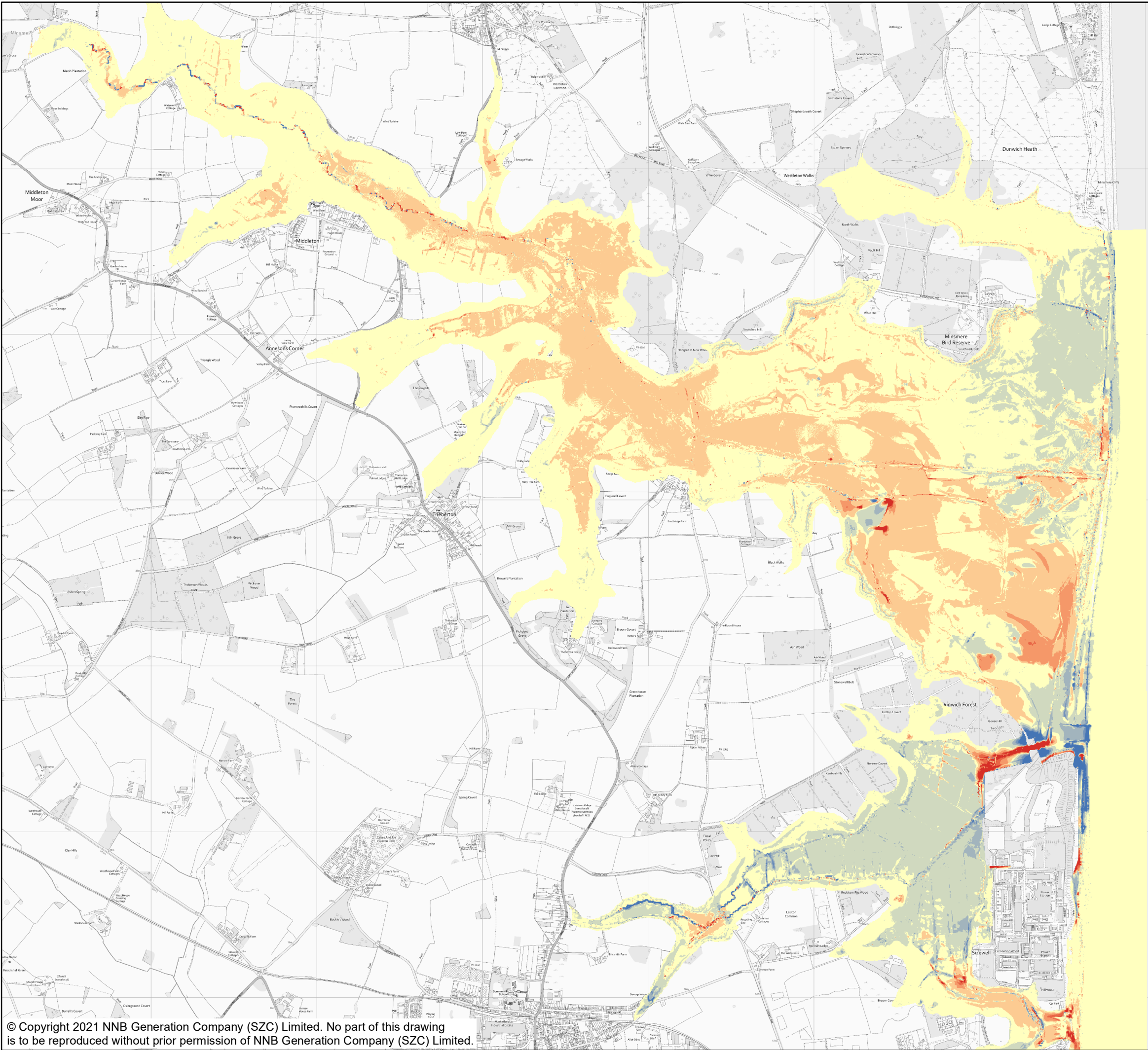
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COASTAL MODELLING RESULTS

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DIFFERENCE IN FLOOD VELOCITY 1000-YEAR
BREACH EVENT 2090 EPOCH

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FIGURE C.29

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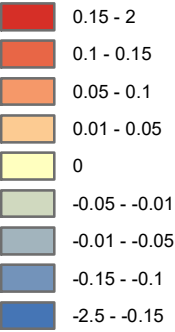




NOTES

KEY

FLOOD VELOCITY DIFFERENCE (M/S)



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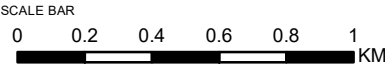


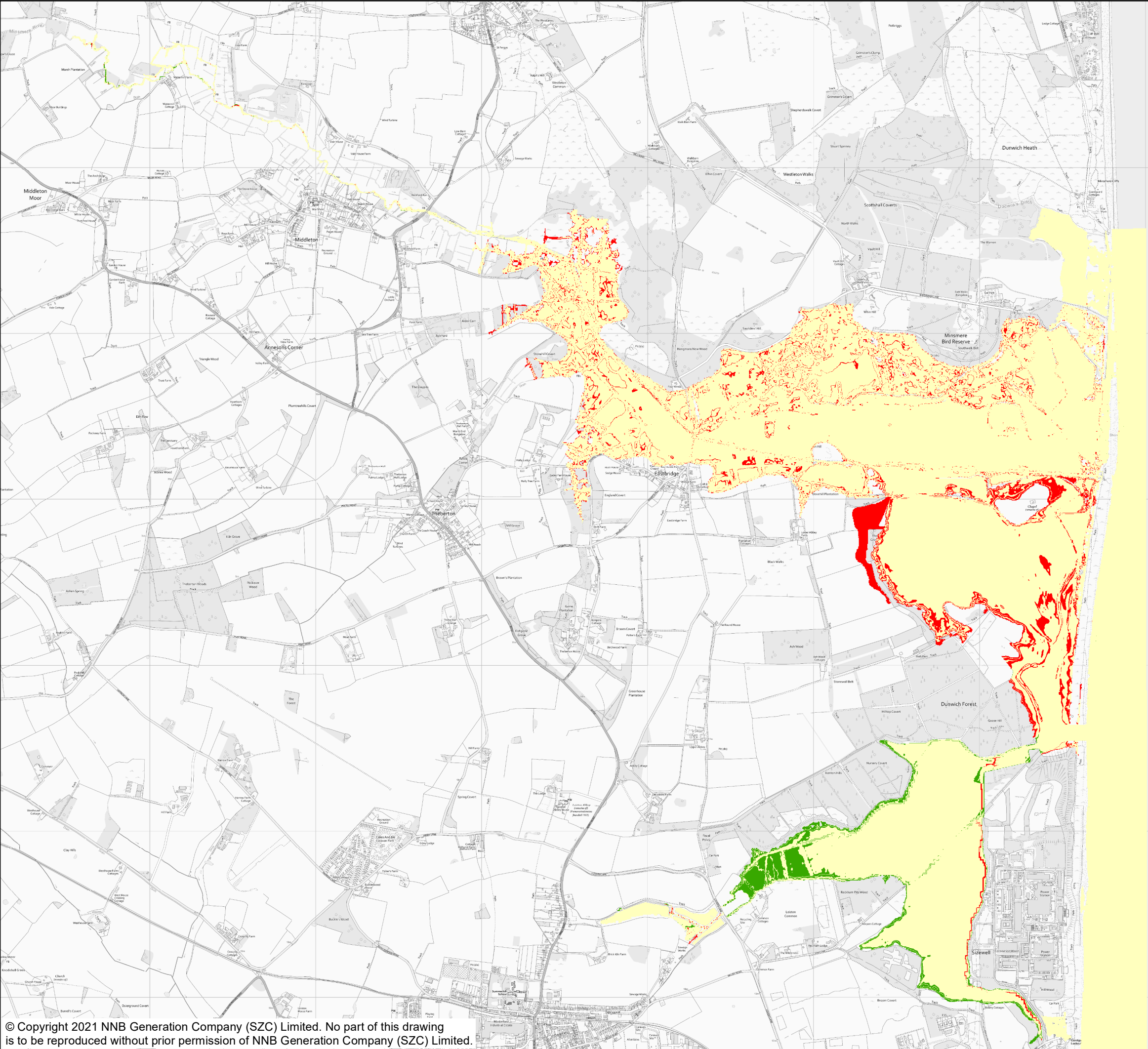
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COASTAL MODELLING RESULTS

DRAWING TITLE:
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BREACH EVENT 2190 EPOCH

DRAWING NO:
FIGURE C.30

DATE: JAN 2021 **DRAWN:** E.H. **SCALE:** 1:22,500 @A3 **REVISION:** 2.0





NOTES

KEY

FLOOD HAZARD

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- HAZARD RATING CLASS DECREASE

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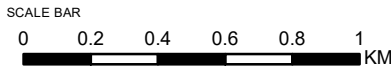


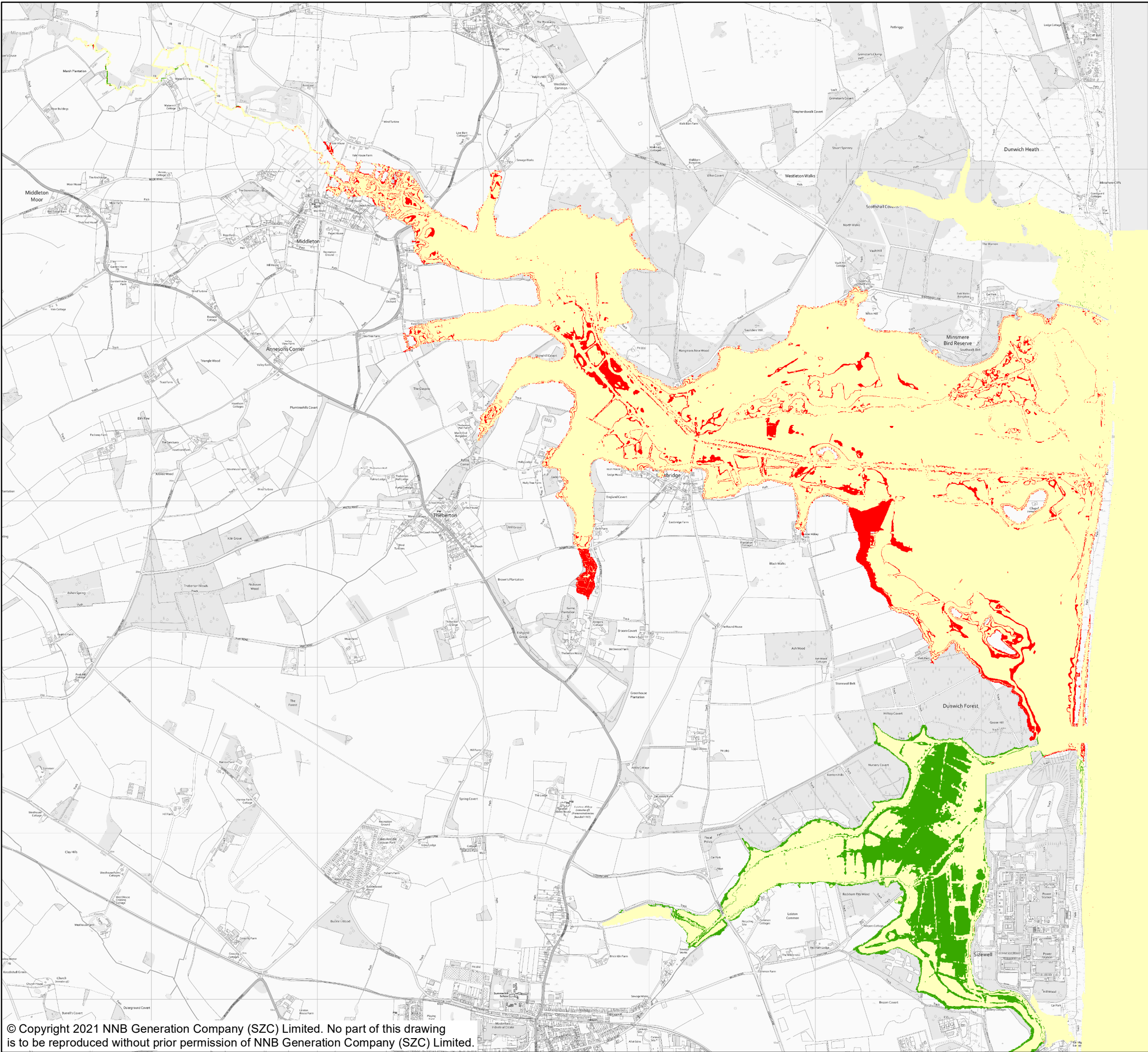
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DIFFERENCE IN FLOOD HAZARD 200-YEAR
BREACH EVENT 2030 EPOCH

DRAWING NO:
FIGURE C.31

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NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
- NO CHANGE
- HAZARD RATING CLASS DECREASE

NOT PROTECTIVELY MARKED

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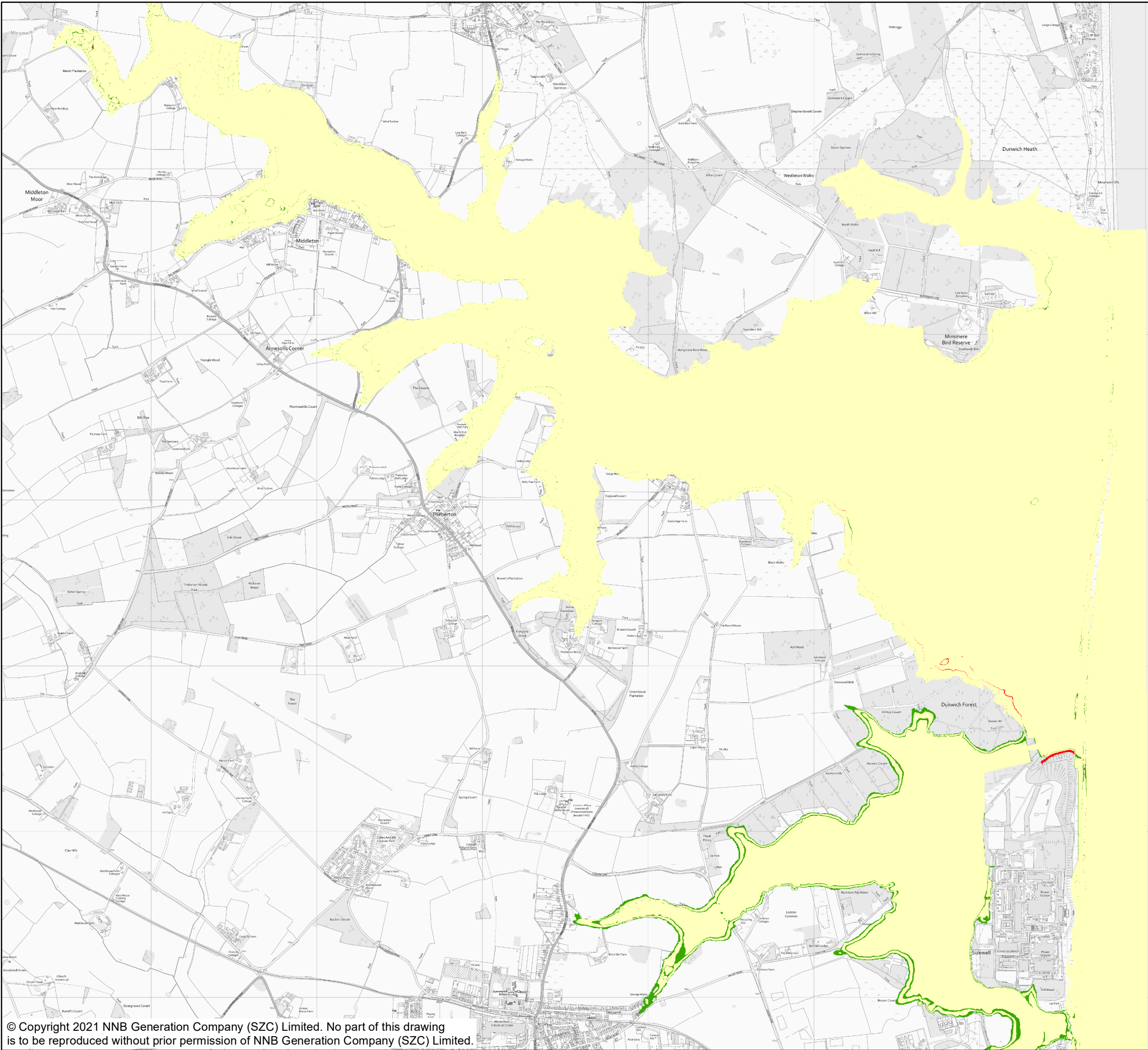
DOCUMENT:
SIZEWELL C
FLOOD RISK ASSESSMENT ADDENDUM
COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 200-YEAR
BREACH EVENT 2090 EPOCH

DRAWING NO:
FIGURE C.32

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0

SCALE BAR
0 0.2 0.4 0.6 0.8 1 KM



NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
- NO CHANGE
- HAZARD RATING CLASS DECREASE

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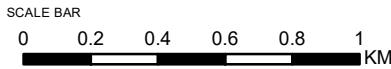


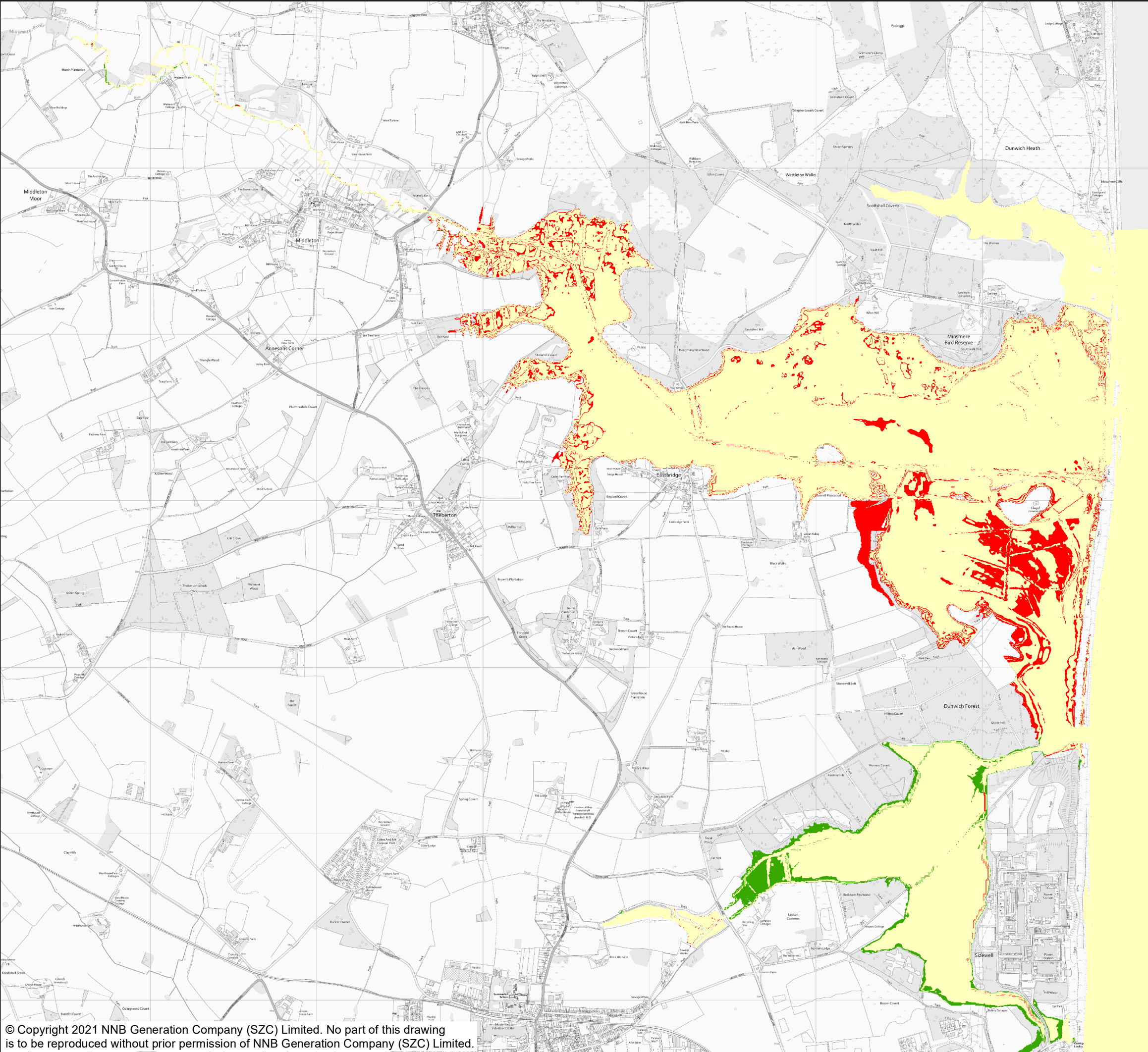
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SIZEWELL C
FLOOD RISK ASSESSMENT ADDENDUM
COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 200-YEAR
BREACH EVENT 2190 EPOCH

DRAWING NO:
FIGURE C.33

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0





NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
- NO CHANGE
- HAZARD RATING CLASS DECREASE

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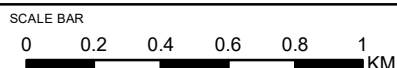


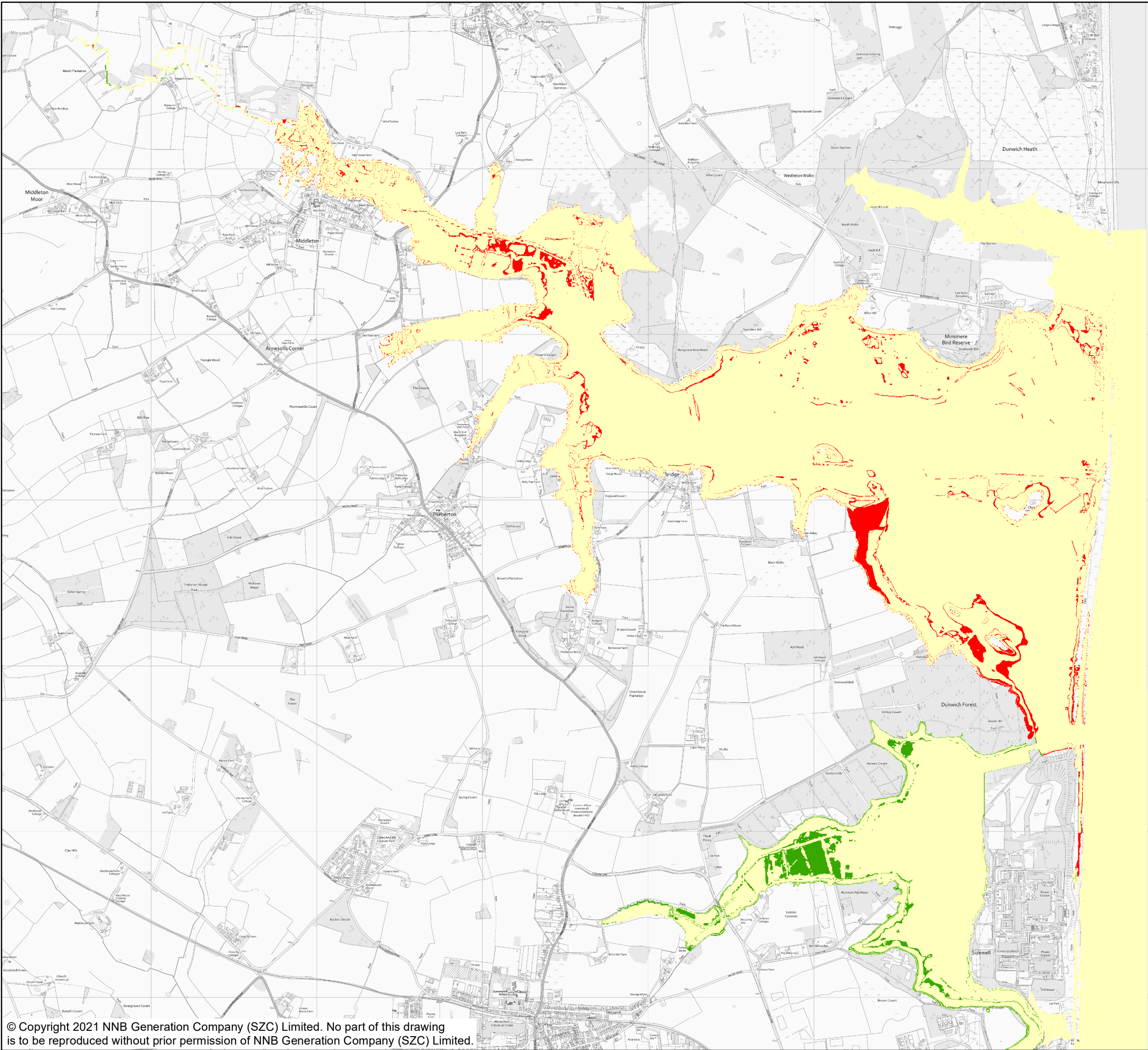
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SIZEWELL C
FLOOD RISK ASSESSMENT ADDENDUM
COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 1000-YEAR
BREACH EVENT 2030 EPOCH

DRAWING NO:
FIGURE C.34

DATE: JAN 2021	DRAWN: E.H.	SCALE: 1:22,500 @A3	REVISION: 2.0
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NOTES

KEY

FLOOD HAZARD

- HAZARD RATING CLASS INCREASE
- NO CHANGE
- HAZARD RATING CLASS DECREASE

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DOCUMENT:
SIZEWELL C
FLOOD RISK ASSESSMENT ADDENDUM
COASTAL MODELLING RESULTS

DRAWING TITLE:
DIFFERENCE IN FLOOD HAZARD 1000-YEAR
BREACH EVENT 2090 EPOCH

DRAWING NO:
FIGURE C.35

DATE: JAN 2021 DRAWN: E.H. SCALE: 1:22,500 @A3 REVISION: 2.0

