



# The Sizewell C Project

## 6.3 Volume 2 Main Development Site Chapter 19 Groundwater and Surface Water Appendix 19A Groundwater and Surface Water: Numerical Modelling Report Part 5 of 6

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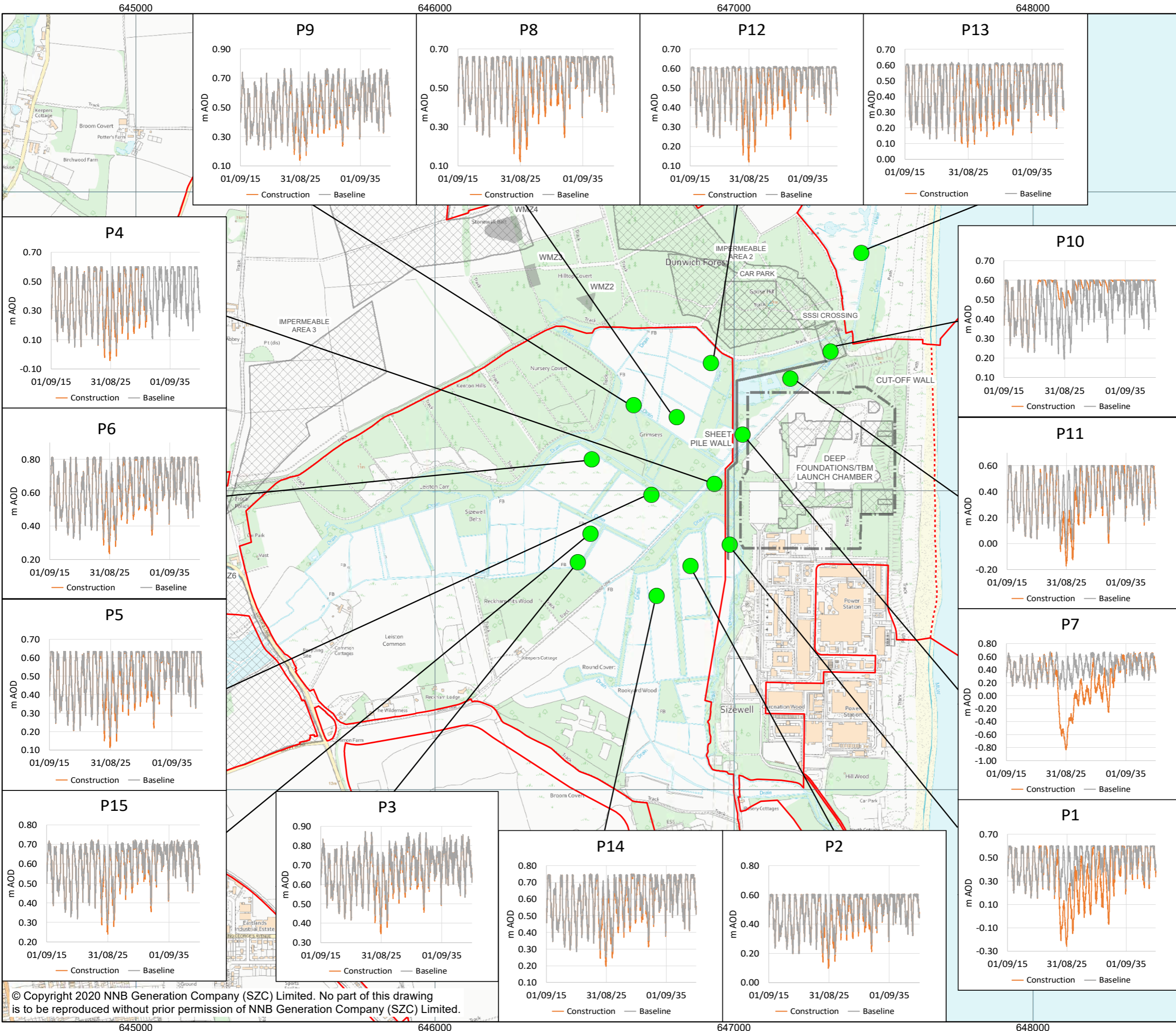
Revision: 1.0  
Applicable Regulation: Regulation 5(2)(a)  
PINS Reference Number: EN010012

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May 2020

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





**NOTES**

**BASILINE RUNS:**  
53-B-W-1520b / 2022c / 2232f / 3240c

**CONSTRUCTION RUNS:**  
53-C-W-1520a / 2022c / 2224f / 2432e / 3240c

**KEY**

- PEAT MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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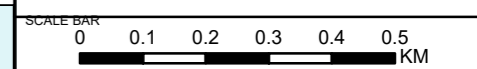


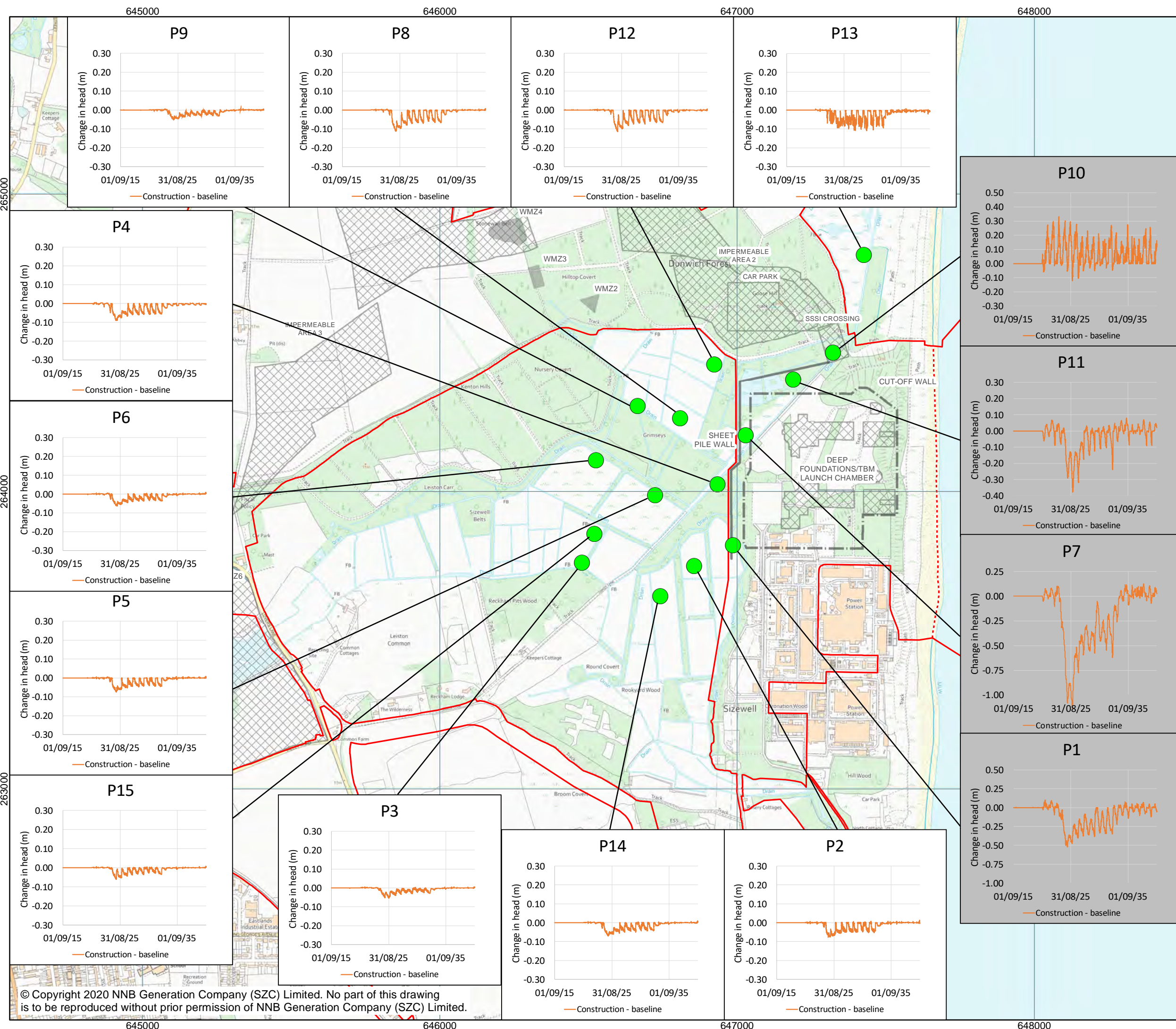
DOCUMENT:  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

DRAWING TITLE:  
SIMULATED BASELINE AND CONSTRUCTION  
WATER LEVELS IN THE PEAT-WET SCENARIO  
(2015-2040)

DRAWING NO:  
**FIGURE 19A.94**

DATE: JAN 2020      DRAWN: HM      SCALE: 1:12,000 @A3





**NOTES**

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY.

**BASELINE RUNS:**  
53-B-W-1520b / 2022c / 2232f / 3240c

**CONSTRUCTION RUNS:**  
53-C-W-1520a / 2022c / 2224f / 2432e / 3240c

- KEY**
- PEAT MONITORING BOREHOLES
  - SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
  - - - DEMARCATION LINE
  - MODELLED DEVELOPMENT

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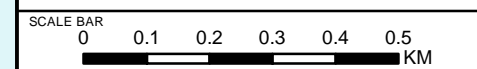


**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
PROJECTED CHANGES IN SIMULATED GROUNDWATER LEVELS IN THE PEAT FROM CONSTRUCTION: WET SCENARIO (2015-2040)

**DRAWING NO:**  
FIGURE 19A.95

**DATE:** JAN 2020 **DRAWN:** HM **SCALE:** 1:12,000 @A3



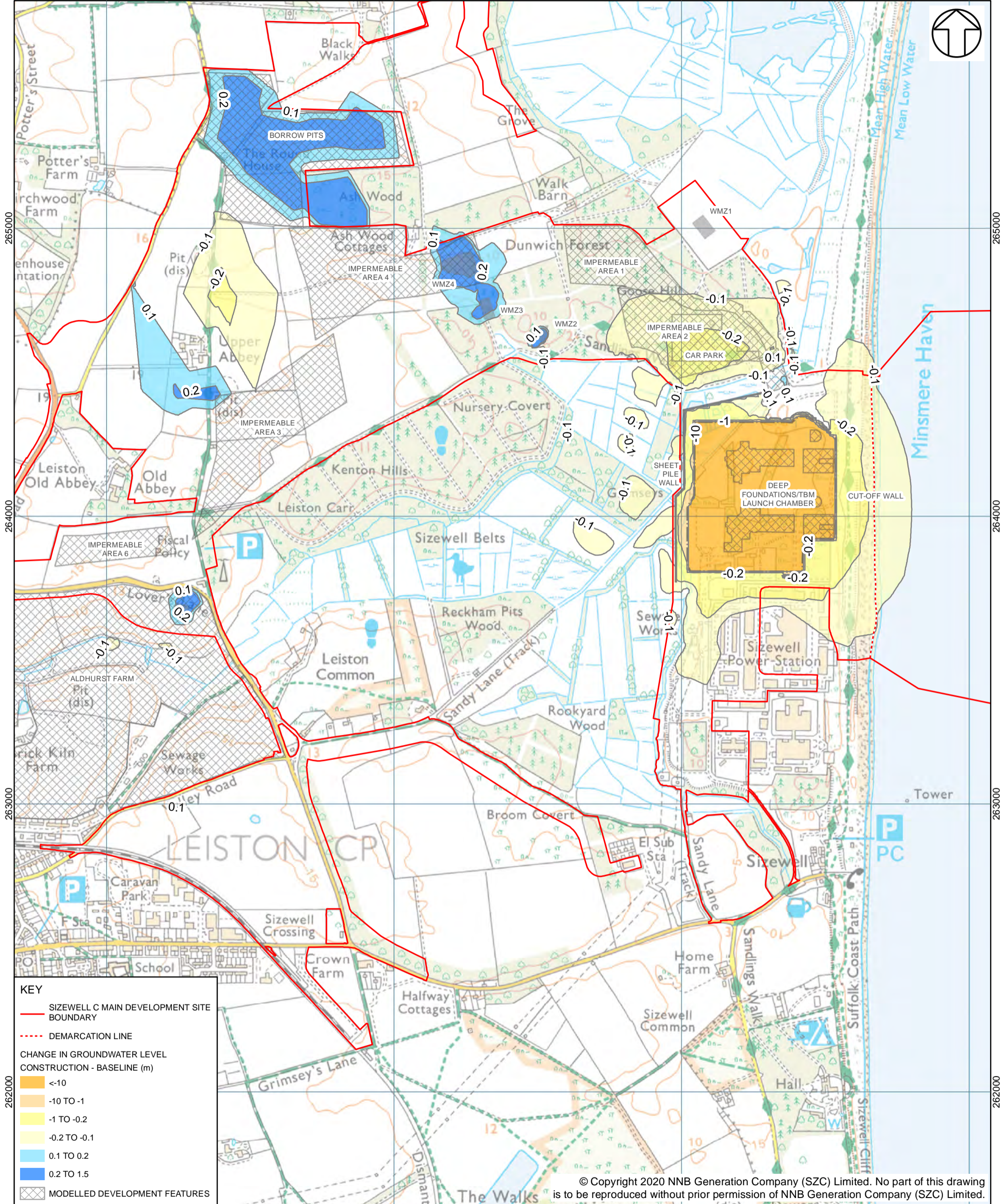
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**KEY**

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

**CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)**

- <math><-10</math>
- 10 TO -1
- 1 TO -0.2
- 0.2 TO -0.1
- 0.1 TO 0.2
- 0.2 TO 1.5

MODELLED DEVELOPMENT FEATURES

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**NOTE**

BASELINE RUN:  
 53-B-W-2232f

CONSTRUCTION RUN  
 53-C-W-2432e

DRAWING TITLE:  
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE WATER TABLE AQUIFER: WET SCENARIO (24 DECEMBER 2024)

NOT PROTECTIVELY MARKED

DRAWING NO:  
 FIGURE 19A.96

DATE:  
 JAN 2020

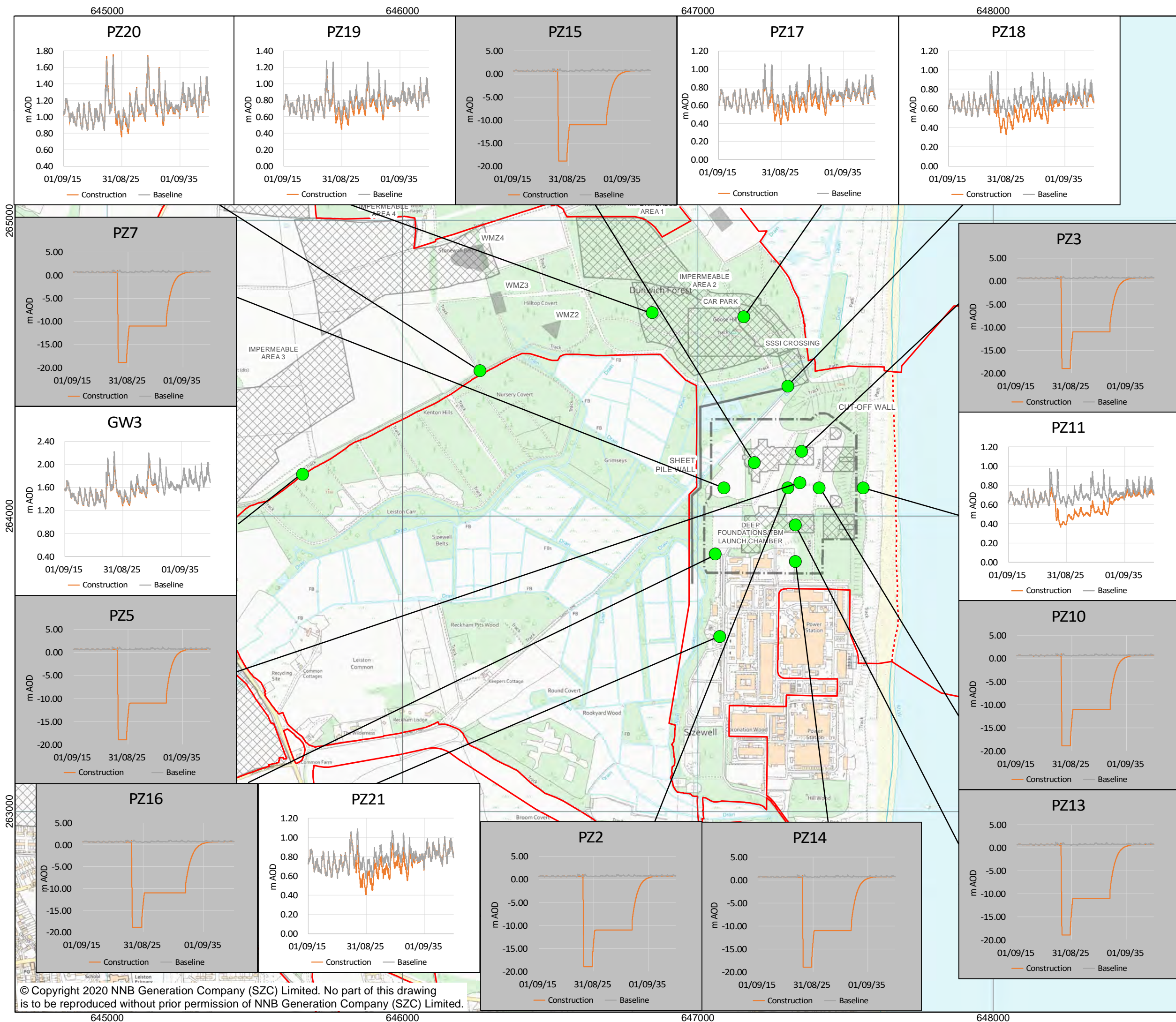
DRAWN:  
 H.M.

SCALE:  
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DOCUMENT:  
 SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

SCALE BAR  
 0 0.1 0.2 0.3 0.4 0.5 KM





**NOTES**

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

**BASELINE RUNS:**  
53-B-W-1520b / 2022c / 2232f / 3240c

**CONSTRUCTION RUNS:**  
53-C-W-1520a / 2022c / 2224f / 2432e / 3240c

**KEY**

- CRAG GROUNDWATER MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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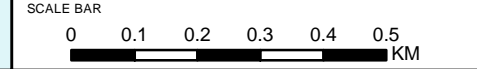


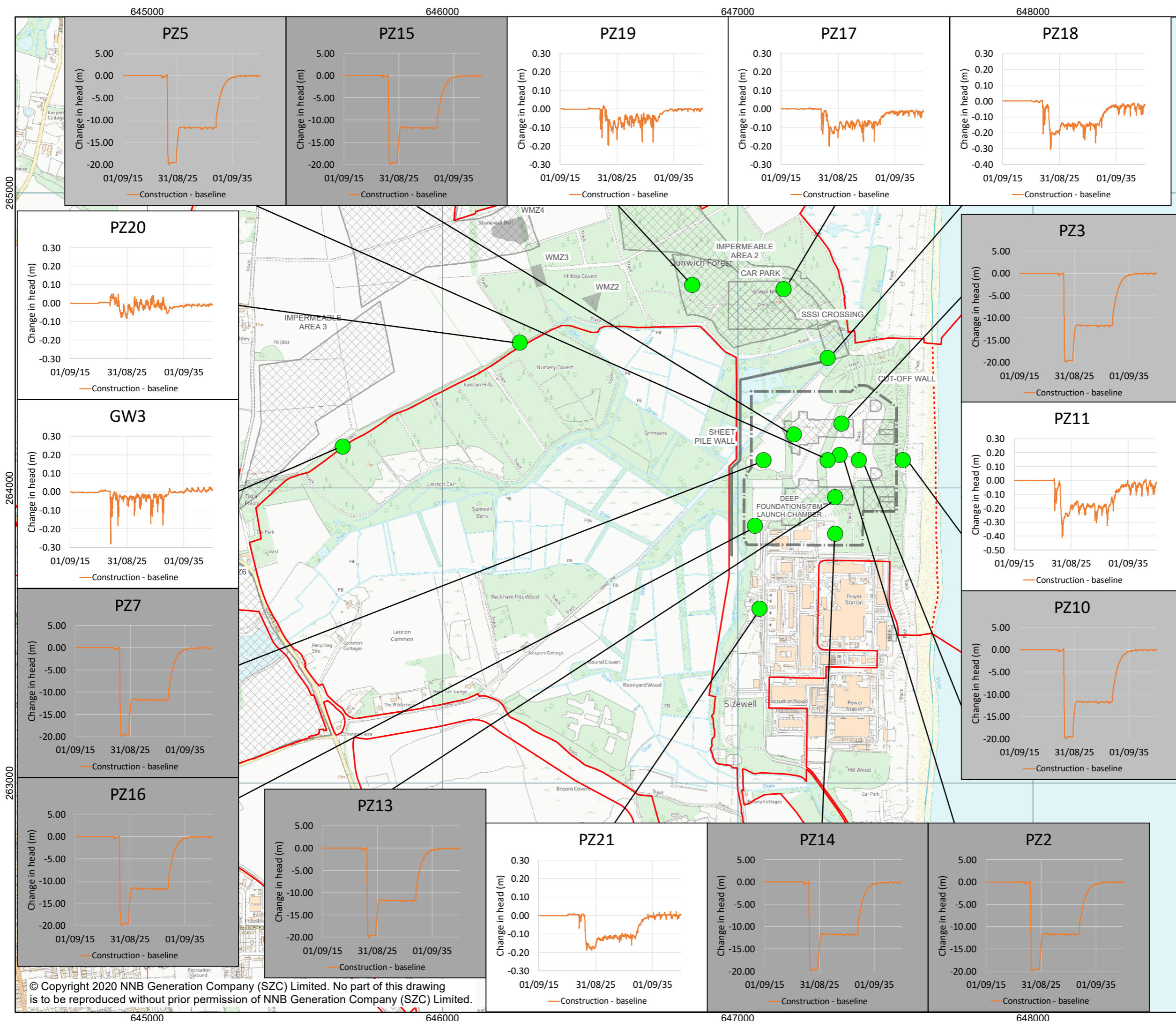
**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED WATER LEVELS IN SHALLOW CRAG GROUNDWATER MONITORING BOREHOLE (CONSTRUCTION AND BASELINE WET SCENARIO 2015-2040)

**DRAWING NO:**  
FIGURE 19A.97

**DATE:** JAN 2020 **DRAWN:** H.M. **SCALE:** 1:12,000 @A3





NOTES



HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

BASELINE RUNS:  
53-B-W-1520b / 2022c / 2232f / 3240c

CONSTRUCTION RUNS:  
53-C-W-1520a / 2022c / 2224f / 2432e / 3240c

KEY

- CRAG MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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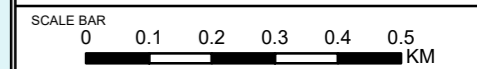


DOCUMENT:  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

DRAWING TITLE:  
PROJECTED CHANGES IN SIMULATED  
GROUNDWATER LEVELS IN THE SHALLOW CRAG  
FROM CONSTRUCTION: WET SCENARIO  
(2015-2040)

DRAWING NO:  
FIGURE 19A.98

DATE: JAN 2020      DRAWN: HM      SCALE: 1:12,000 @A3

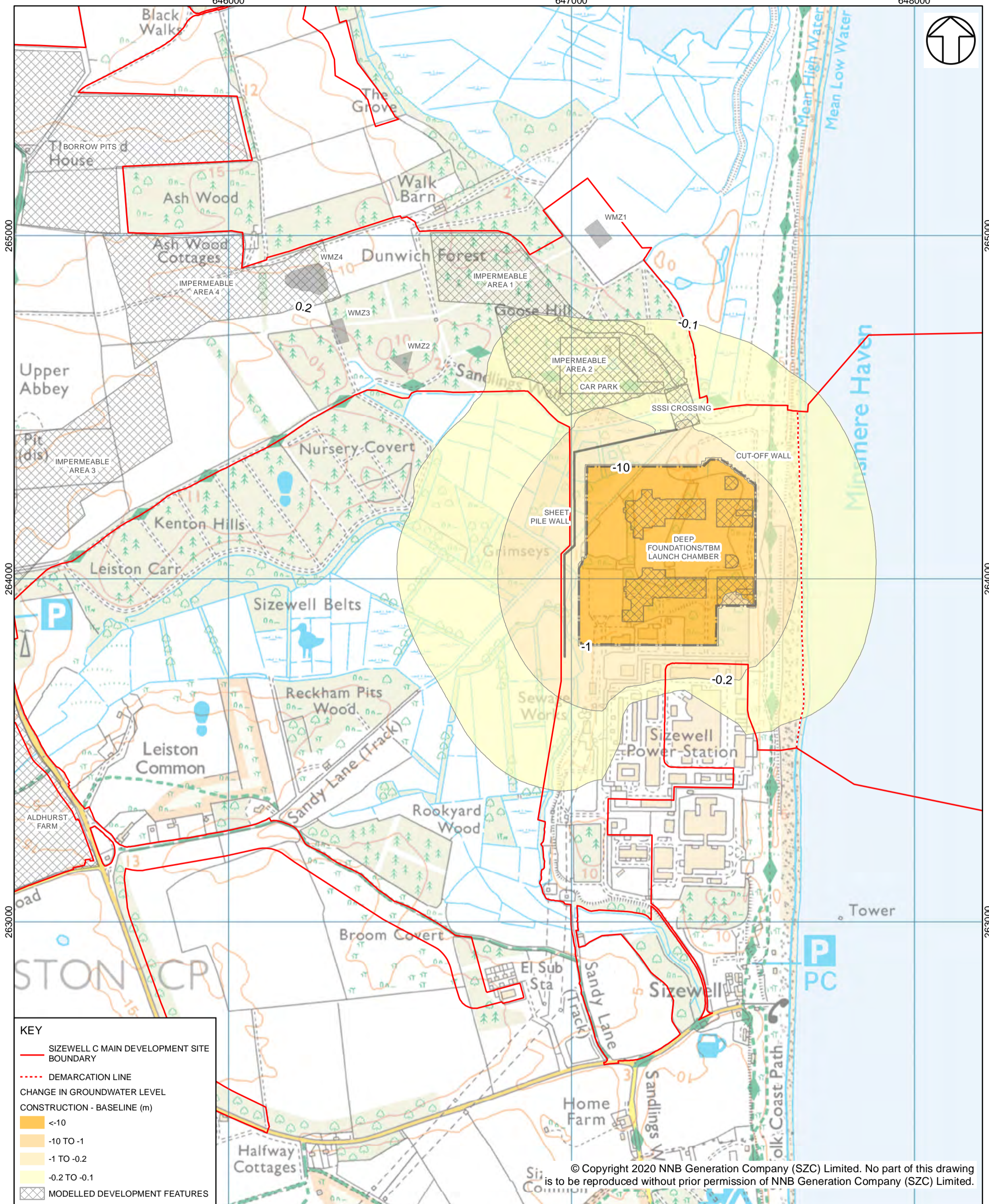


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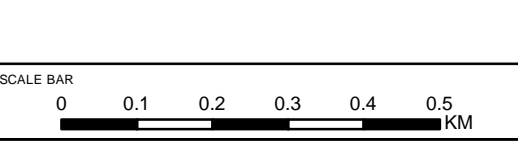
**NOTE**  
BASELINE RUN:  
53-B-W2232f  
CONSTRUCTION RUN:  
53-C-W-2432e

**DRAWING TITLE:**  
PROJECTED MAXIMUM DRAWDOWN CONTOURS  
IN THE CRAG -WET SCENARIO (26 DECEMBER 2024)

**DRAWING NO.:**  
FIGURE 19A.99

**DATE:** JAN 2020  
**DRAWN:** M.S./M.G.  
**SCALE:** 1:10,000 @A3

**DOCUMENT:**  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT



NOT PROTECTIVELY MARKED



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NOTES

G7 OMITTED DUE TO LOCATION WITHIN MAIN DEVELOPMENT SITE

BASELINE RUNS:  
53-B-W-1520b / 2022c / 2232f / 3240c

CONSTRUCTION RUNS:  
53-C-W-1520a / 2022c / 2224f / 2432e / 3240c

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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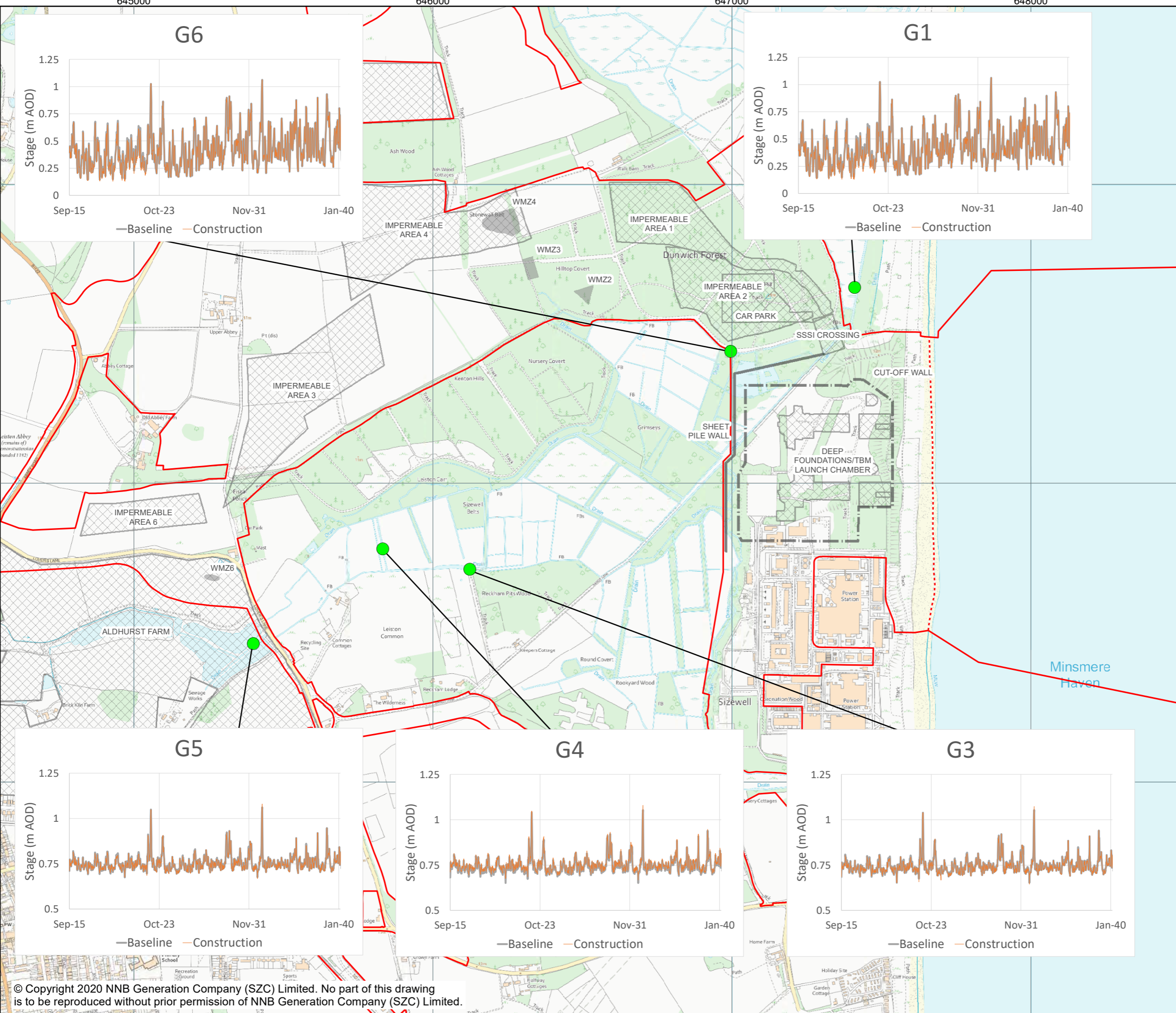
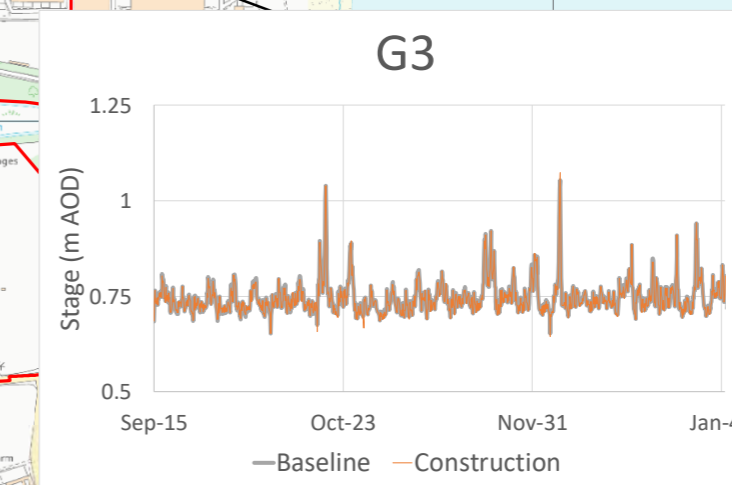
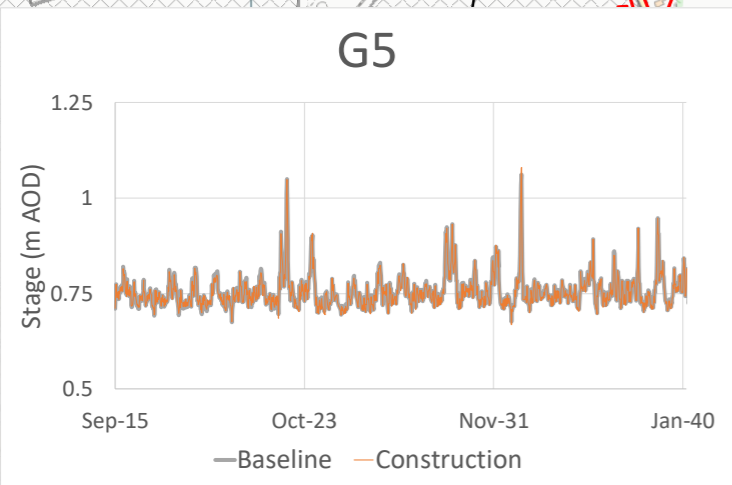
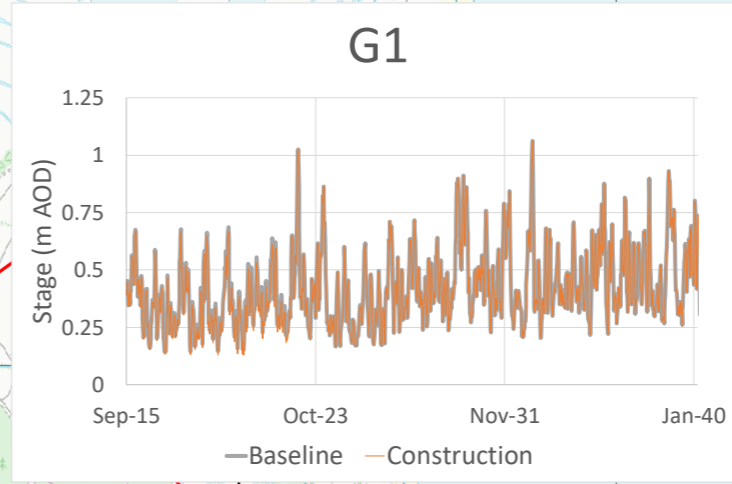
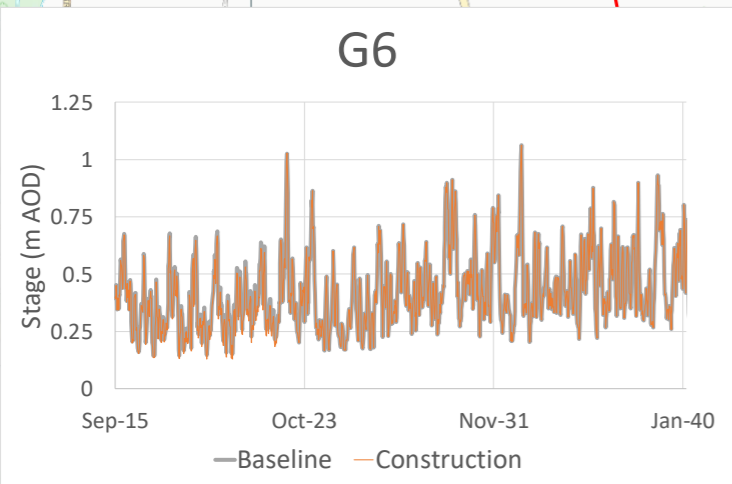
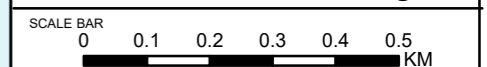


DOCUMENT:  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

DRAWING TITLE:  
SIMULATED STAGE AT STREAM  
GAUGING LOCATIONS  
(CONSTRUCTION AND  
BASELINE WET SCENARIO 2015-2040)

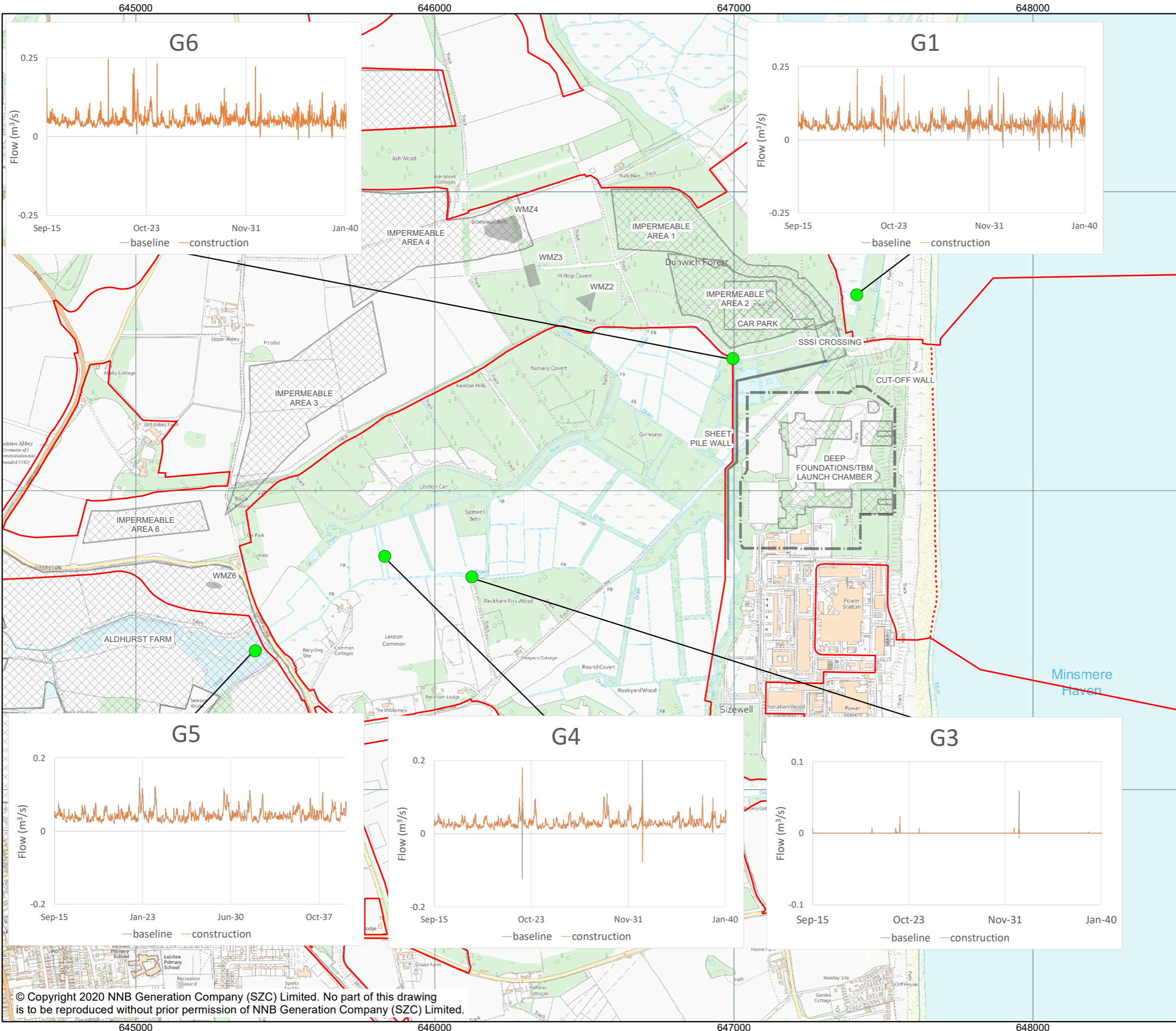
DRAWING NO:  
FIGURE 19A.100

DATE: JAN 2020      DRAWN: MS      SCALE: 1:12,000 @A3



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**NOTES**

G7 OMITTED DUE TO LOCATION WITHIN MAIN DEVELOPMENT SITE

**BASELINE RUNS:**  
53-B-W-1520b / 2022c / 2232f / 3240c

**CONSTRUCTION RUNS:**  
53-C-W-1520a / 2022c / 2224f / 2432e / 3240c

- KEY**
- SURFACE WATER GAUGING LOCATIONS
  - SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
  - - - DEMARCATION LINE
  - MODELLED DEVELOPMENT FEATURES

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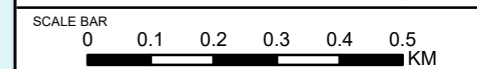


**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

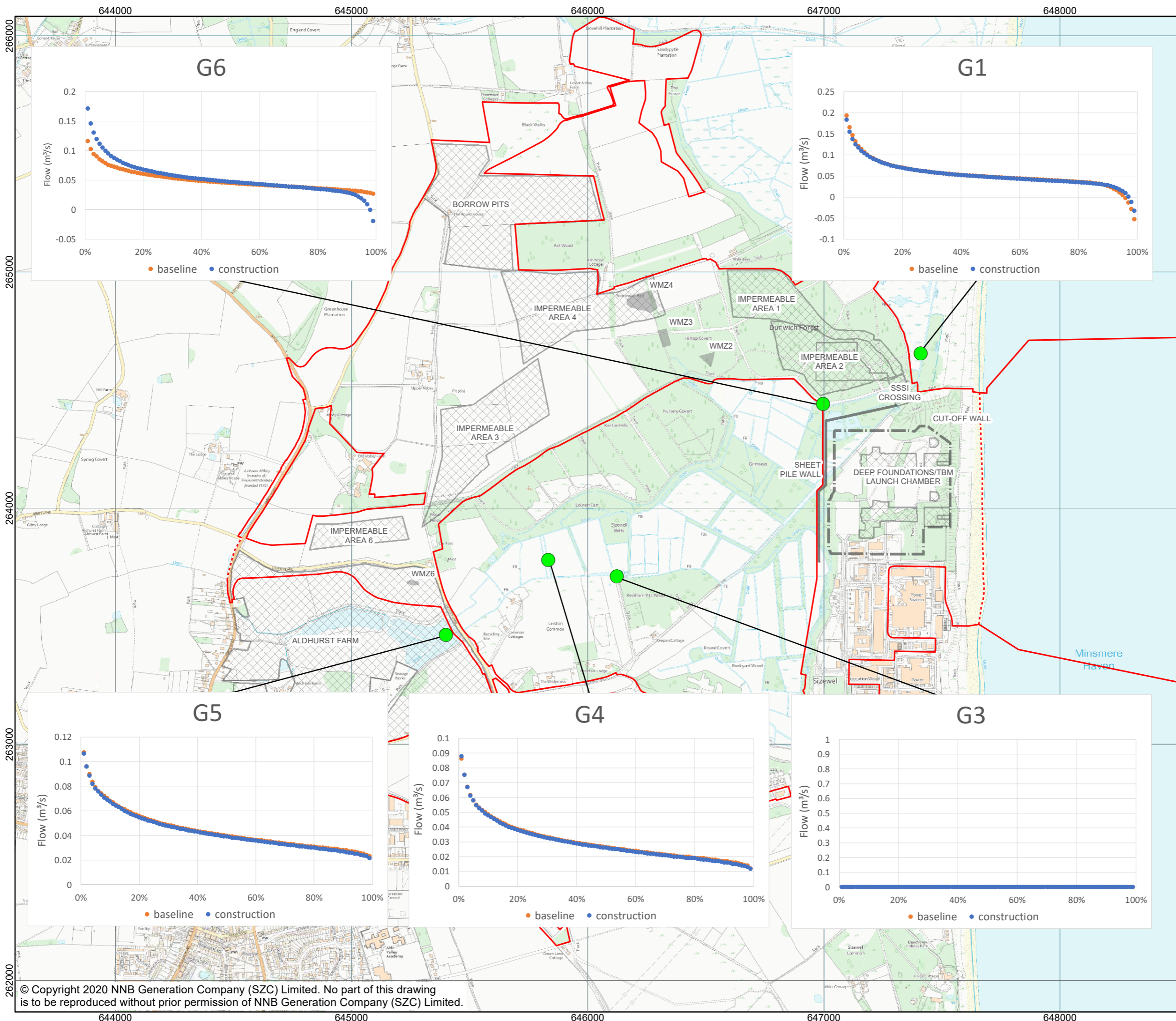
**DRAWING TITLE:**  
SIMULATED FLOW AT STREAM GAUGING LOCATIONS (CONSTRUCTION AND BASELINE WET SCENARIO 2015-2040)

**DRAWING NO:**  
FIGURE 19A.101

**DATE:** JAN 2020    **DRAWN:** MS    **SCALE:** 1:12,000 @A3



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**NOTES**

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

**BASILINE RUNS:**  
53-B-W-1520b / 2022c / 2232f / 3240c

**CONSTRUCTION RUNS:**  
53-C-W-1520a / 2022c / 2224f / 2432e / 3240c

**KEY**

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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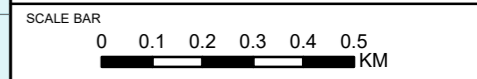


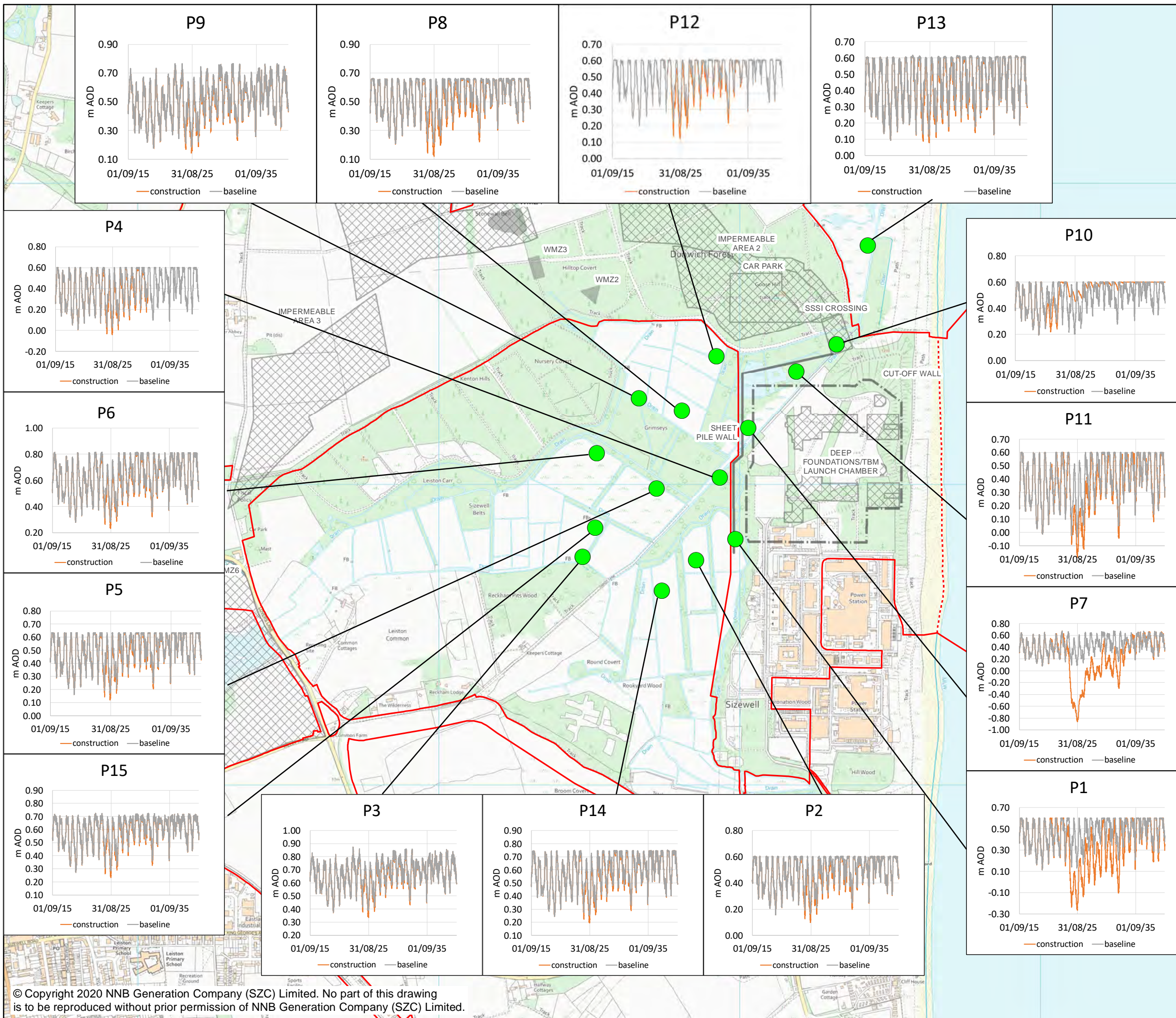
**DOCUMENT:**  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED WATER FLOW DURATION CURVES  
AT STREAM GAUGING LOCATIONS  
(CONSTRUCTION AND BASELINE WET SCENARIO  
2015-2040)

**DRAWING NO:**  
FIGURE 19A.102

**DATE:** JAN 2020      **DRAWN:** M.S.      **SCALE:** 1:15,000 @A3





**NOTES**

BASELINE RUNS:  
53-B-I-1520e / 2022f / 2232f / 3240d

CONSTRUCTION RUNS:  
53-C-I-1520b / 2022a / 2224e / 2432g  
3240e

**KEY**

- PEAT MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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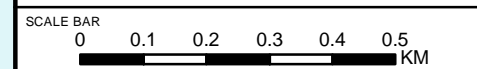


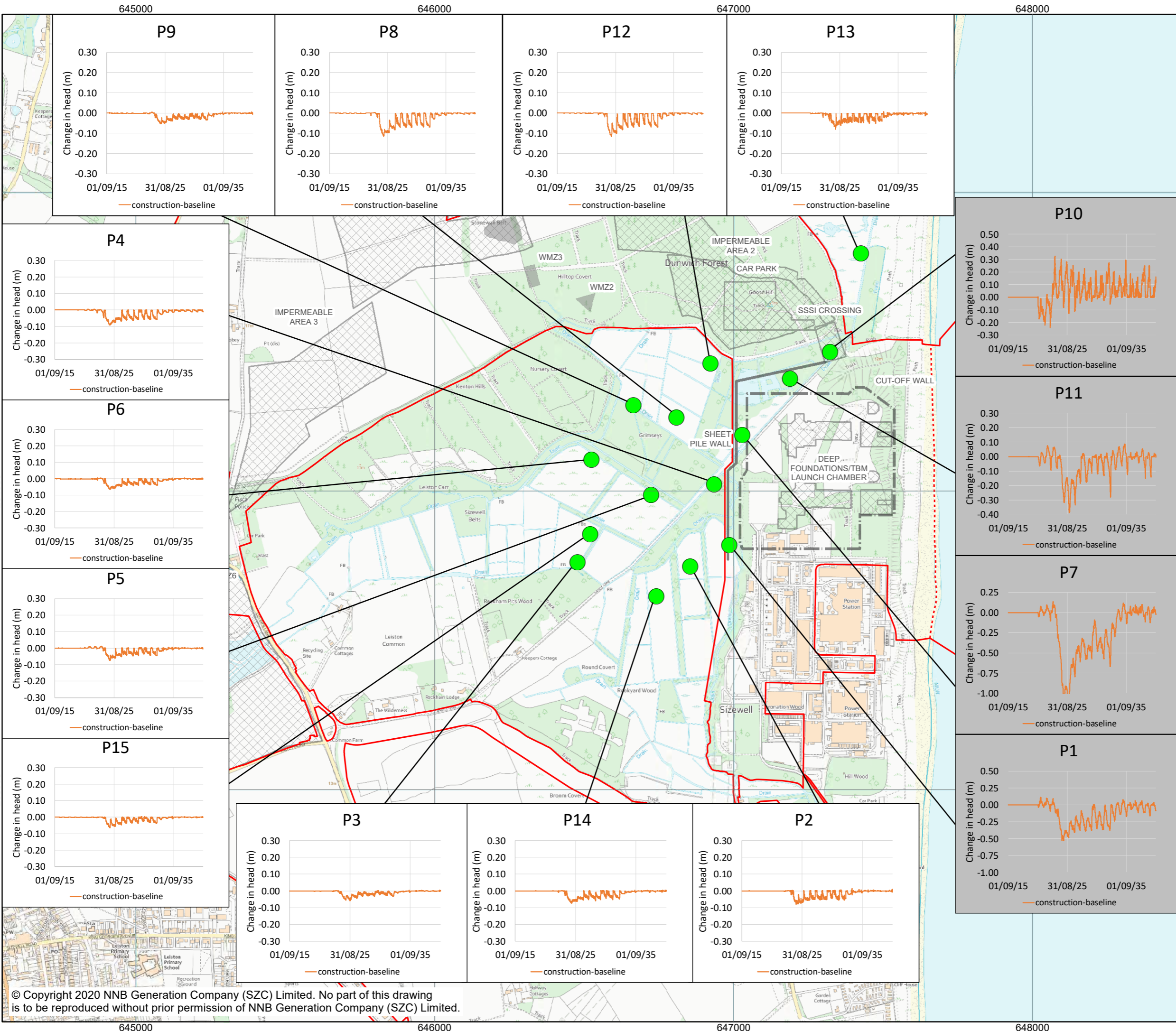
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SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED WATER LEVELS IN PEAT  
GROUNDWATER MONITORING BOREHOLES  
(CONSTRUCTION AND BASELINE  
INTERMEDIATE SCENARIO 2015-2040)

**DRAWING NO.:**  
FIGURE 19A.103

**DATE:** JAN 2020      **DRAWN:** MS      **SCALE:** 1:12,000 @A3





**NOTES**

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

**BASELINE RUNS:**  
53-B-I-1520e / 2022f / 2232f / 3240d

**CONSTRUCTION RUNS:**  
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

**KEY**

- PEAT MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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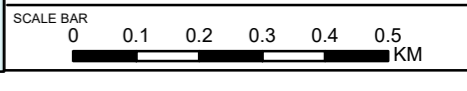


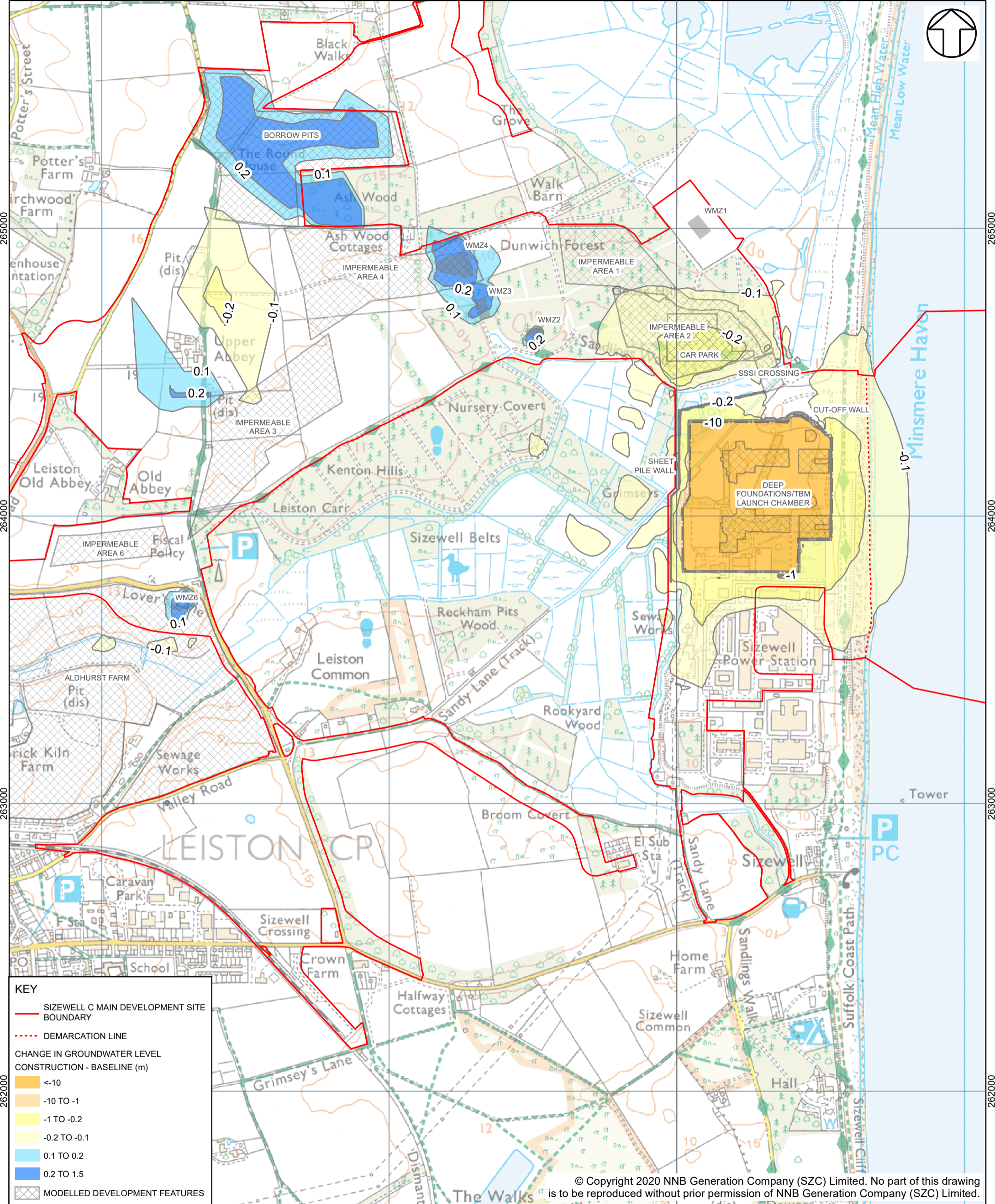
**DOCUMENT:**  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
PROJECTED CHANGES IN SIMULATED GROUNDWATER LEVELS IN THE PEAT FROM CONSTRUCTION: INTERMEDIATE SCENARIO (2015-2040)

**DRAWING NO.:**  
FIGURE 19A.104

**DATE:** JAN 2020    **DRAWN:** MS    **SCALE:** 1:12,000 @A3





**KEY**

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

**CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)**

- <math>< -10 </math>
- <math>-10 </math> TO <math>-1 </math>
- <math>-1 </math> TO <math>-0.2 </math>
- <math>-0.2 </math> TO <math>-0.1 </math>
- <math>0.1 </math> TO <math>0.2 </math>
- <math>0.2 </math> TO <math>1.5 </math>

MODELLED DEVELOPMENT FEATURES

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**NOTES**  
BASELINE RUNS:  
53-B-I-2232f  
CONSTRUCTION RUNS:  
53-C-I-2432g

**DRAWING TITLE:**  
PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE WATER TABLE AQUIFER: INTERMEDIATE SCENARIO (26 DECEMBER 2024)

NOT PROTECTIVELY MARKED

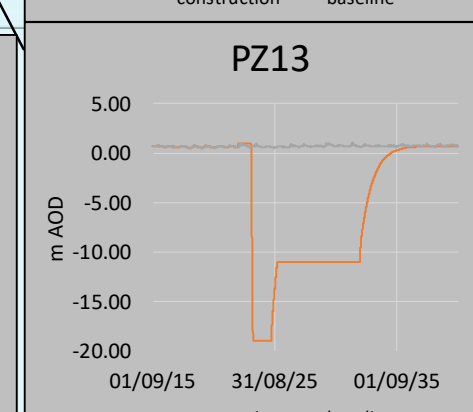
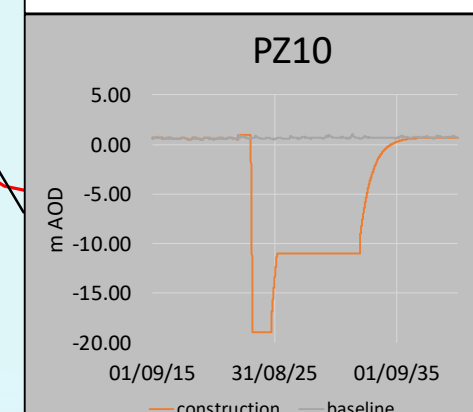
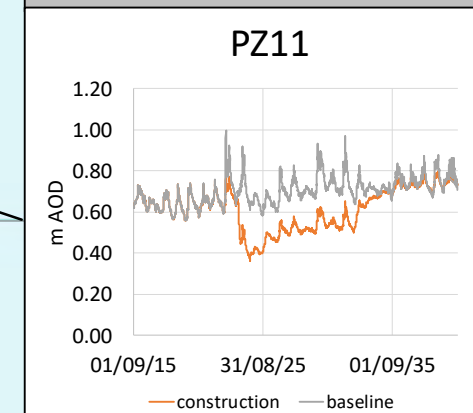
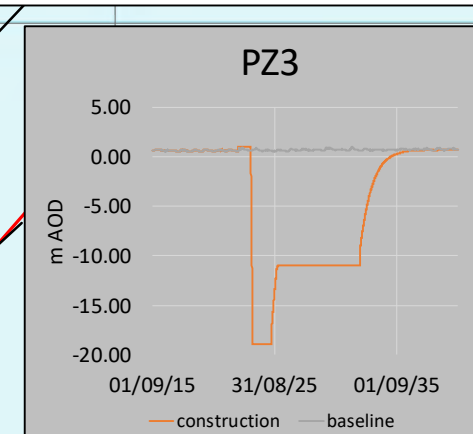
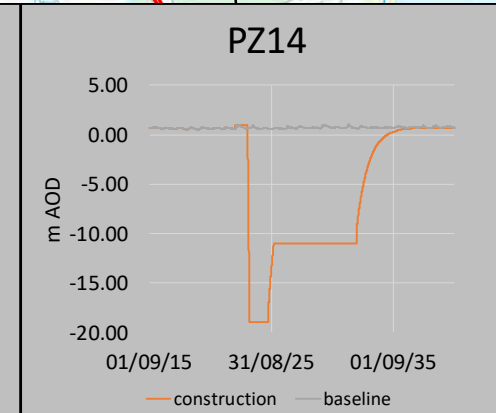
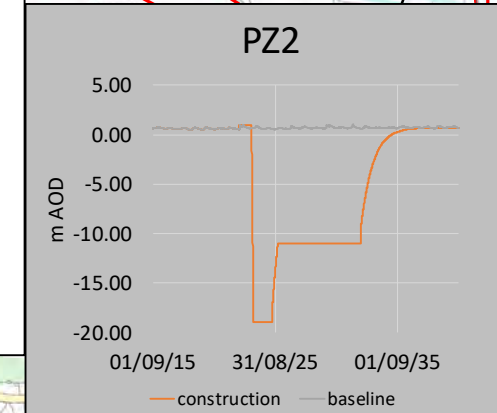
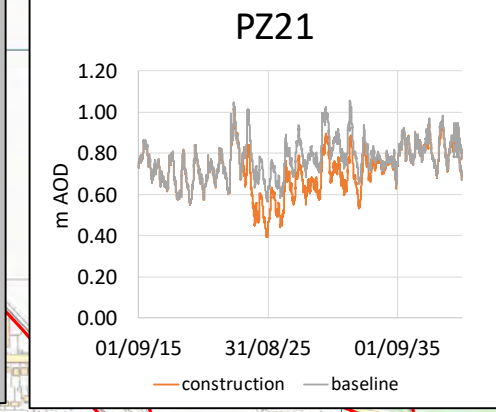
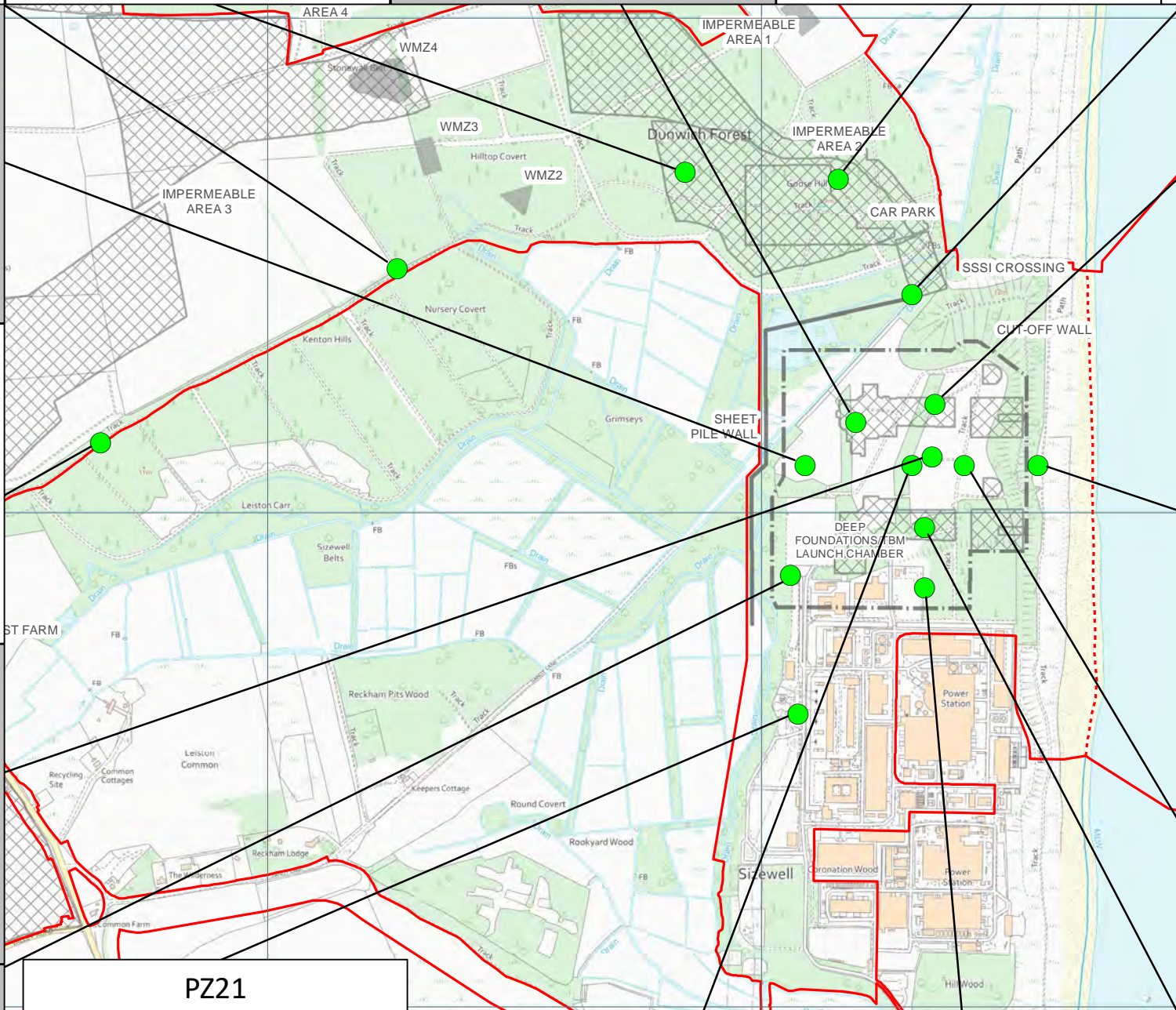
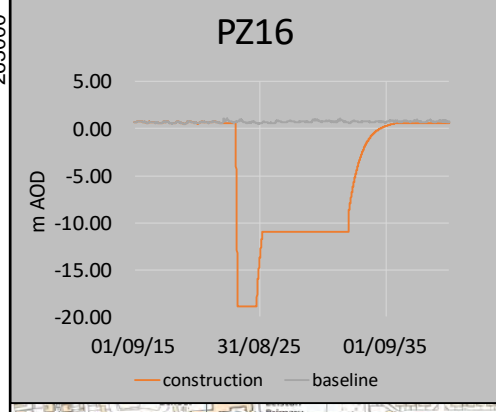
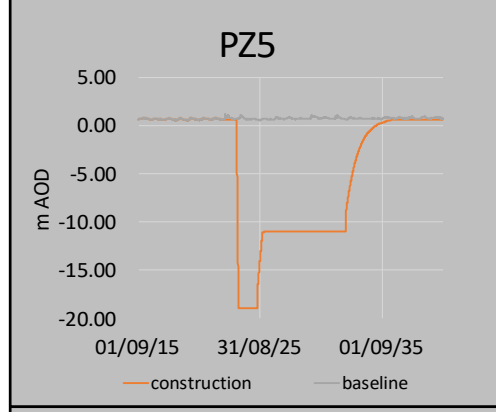
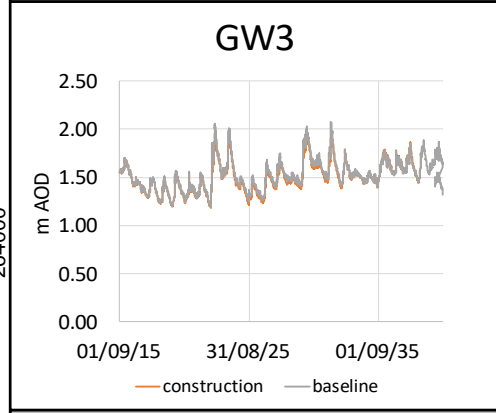
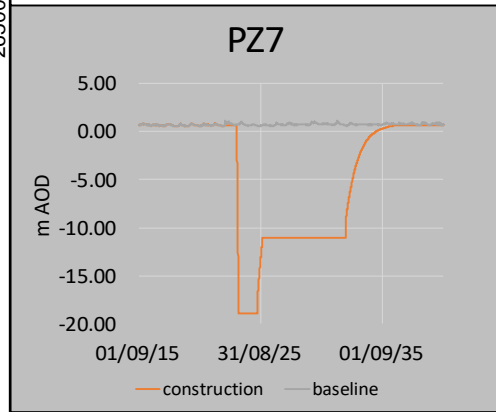
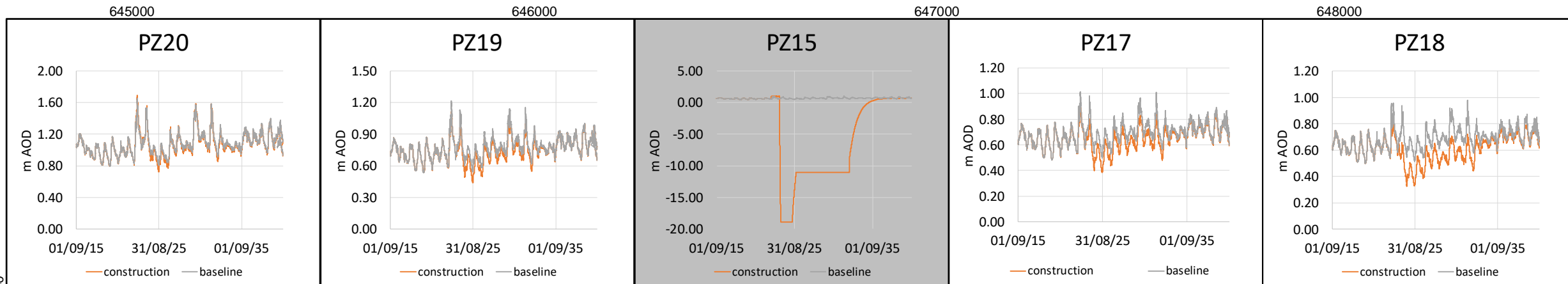
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FIGURE 19A.105

**DATE:** JAN 2020     **DRAWN:** H.M./M.G.     **SCALE:** 1:12,000 @A3

**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**SCALE BAR**  
0 0.1 0.2 0.3 0.4 0.5 KM





**NOTES**

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

**BASELINE RUNS:**  
53-B-I-1520e / 2022f / 2232f / 3240d

**CONSTRUCTION RUNS:**  
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

**KEY**

- CRAG GROUNDWATER MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- ▨ MODELLED DEVELOPMENT FEATURES

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**LOGO:** SZC, EDF ENERGY, CGN

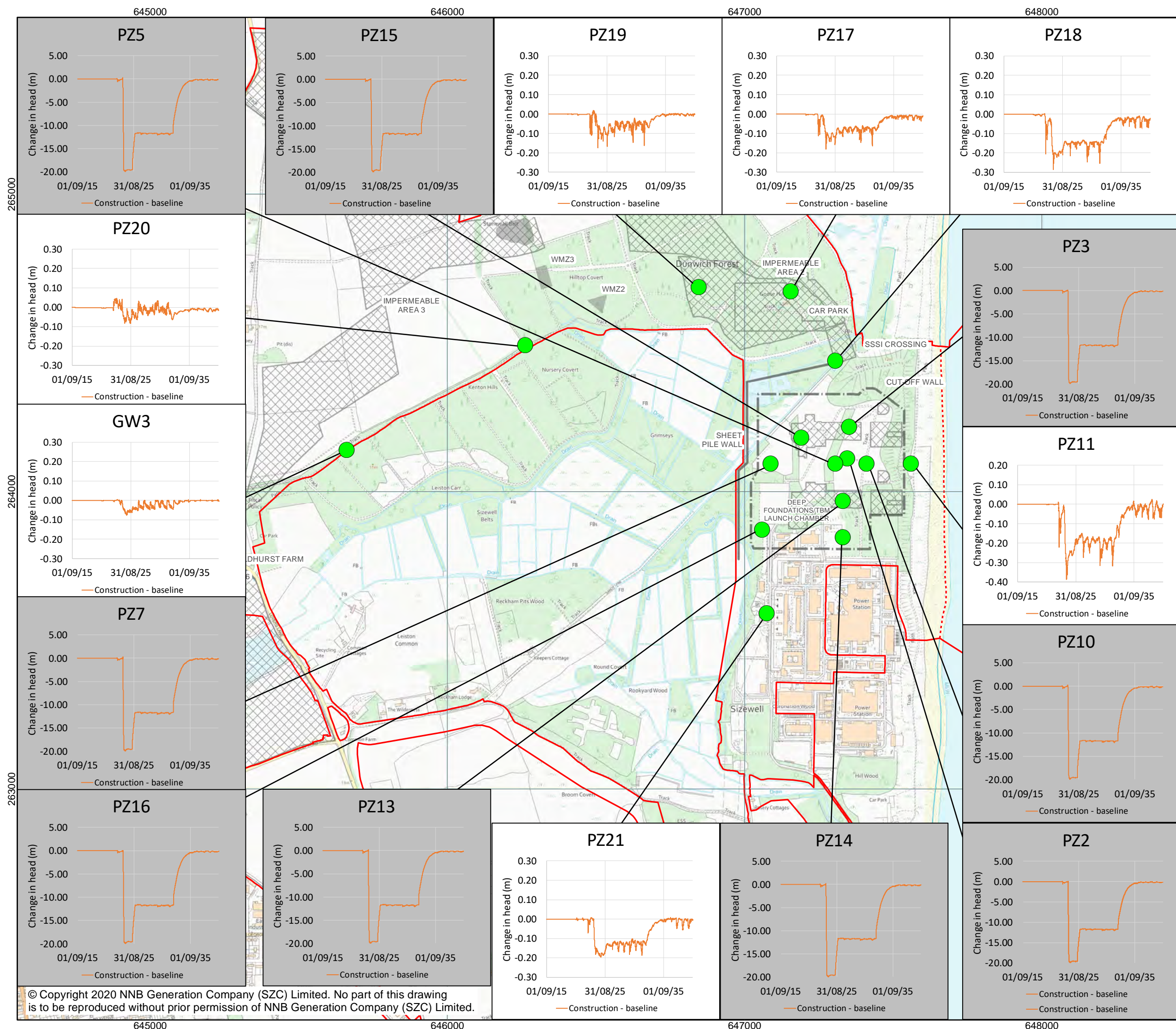
**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED WATER LEVELS IN SHALLOW CRAG GROUNDWATER MONITORING BOREHOLES (CONSTRUCTION AND BASELINE INTERMEDIATE SCENARIO 2015-2040)

**DRAWING NO:**  
FIGURE 19A.106

**DATE:** JAN 2020 **DRAWN:** M.G. **SCALE:** 1:12,000 @A3

**SCALE BAR:** 0 0.1 0.2 0.3 0.4 0.5 KM



NOTES




HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

BASELINE RUNS:  
53-B-I-1520e / 2022f / 2232f / 3240d

CONSTRUCTION RUNS:  
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

KEY

- CRAG MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
-  MODELLED DEVELOPMENT FEATURES

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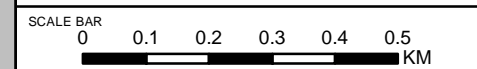


DOCUMENT:  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

DRAWING TITLE:  
PROJECTED CHANGES IN SIMULATED  
GROUNDWATER LEVELS IN THE SHALLOW  
CRAG FROM CONSTRUCTION: INTERMEDIATE  
SCENARIO (2015-2040)

DRAWING NO:  
FIGURE 19A.107

DATE: JAN 2020      DRAWN: MG      SCALE: 1:12,000 @A3

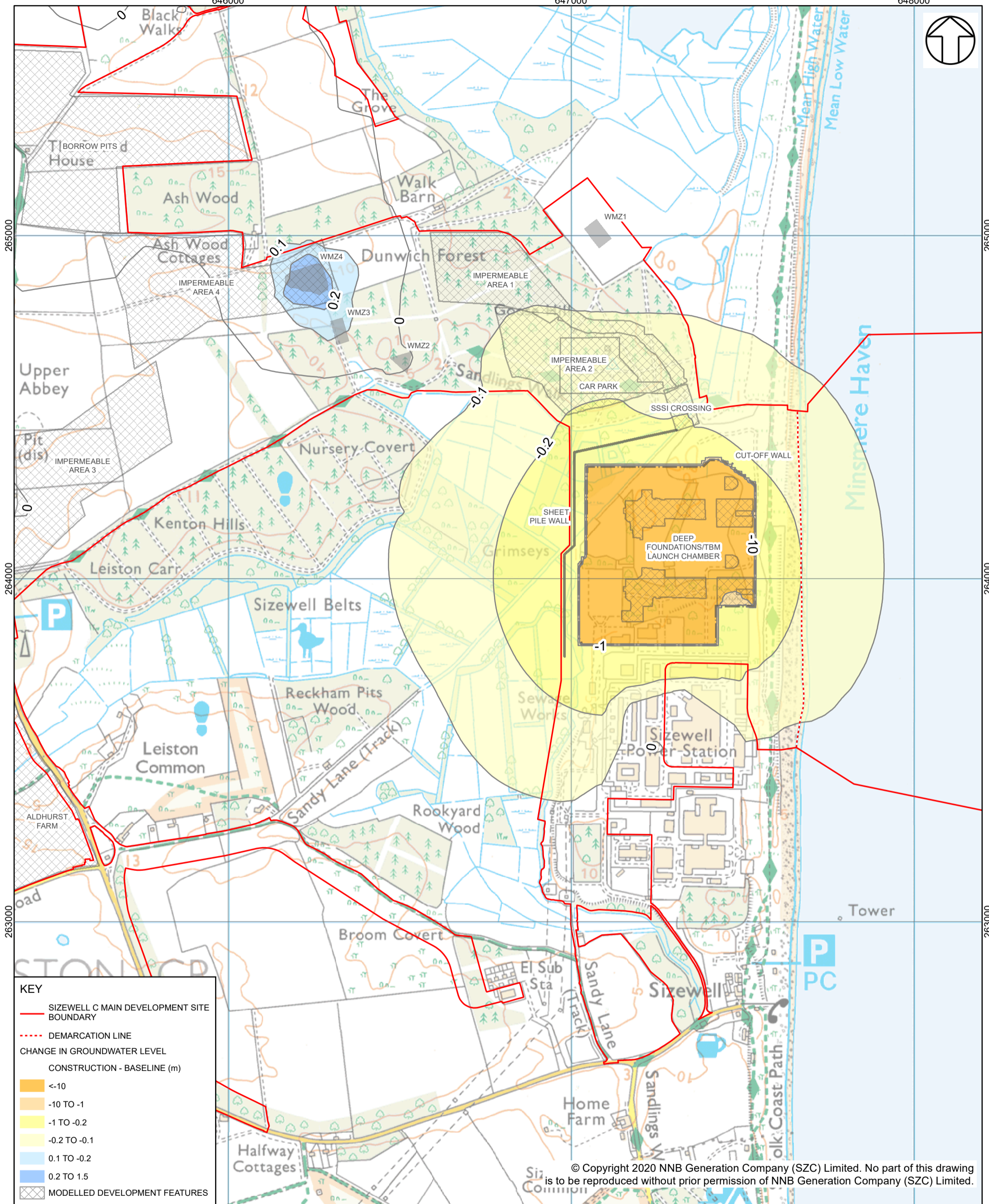


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**KEY**

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)
- <math>-10</math>
- <math>-10</math> TO <math>-1</math>
- <math>-1</math> TO <math>-0.2</math>
- <math>-0.2</math> TO <math>-0.1</math>
- <math>0.1</math> TO <math>-0.2</math>
- <math>0.2</math> TO <math>1.5</math>
- MODELLED DEVELOPMENT FEATURES

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**NOTES**  
 BASELINE RUN:  
 53-B-I2232f  
 CONSTRUCTION RUN:  
 53-C-I-2432g

**DRAWING TITLE:**  
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN CRAG - INTERMEDIATE SCENARIO (26 DECEMBER 2024)

NOT PROTECTIVELY MARKED

**DRAWING NO:**  
 FIGURE 19A.108

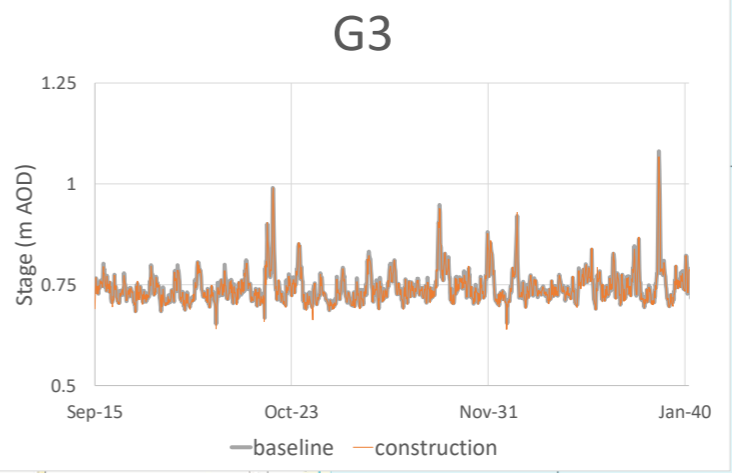
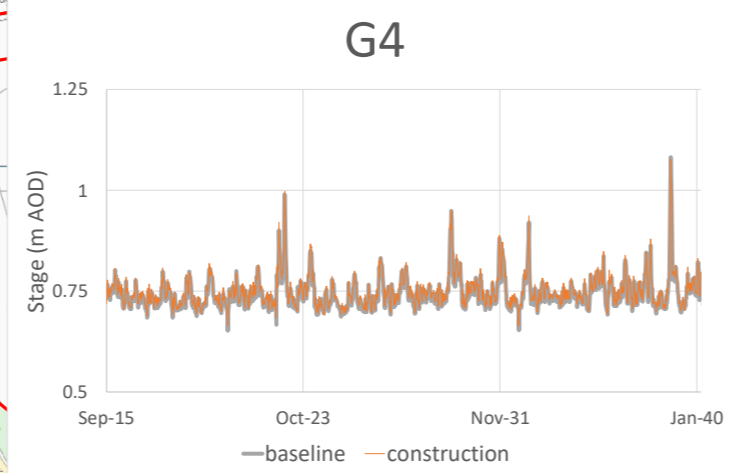
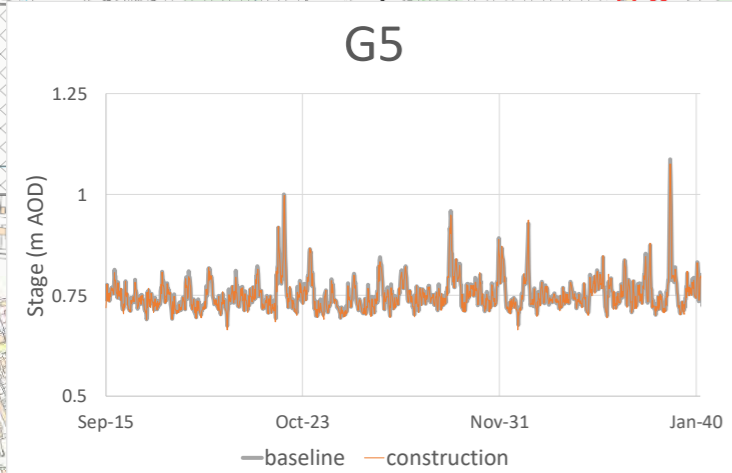
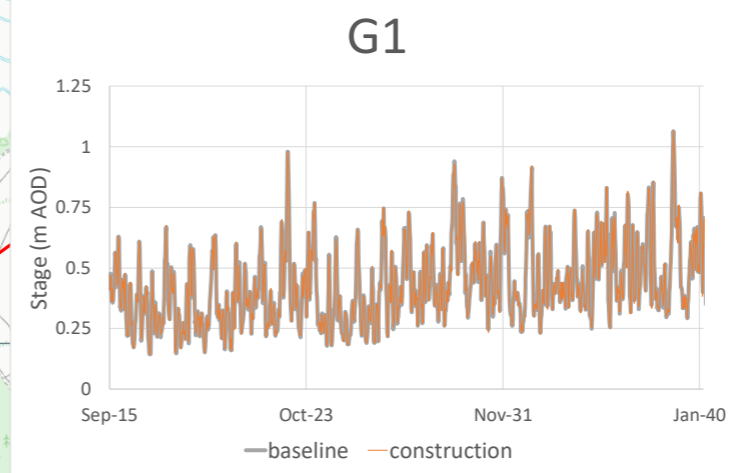
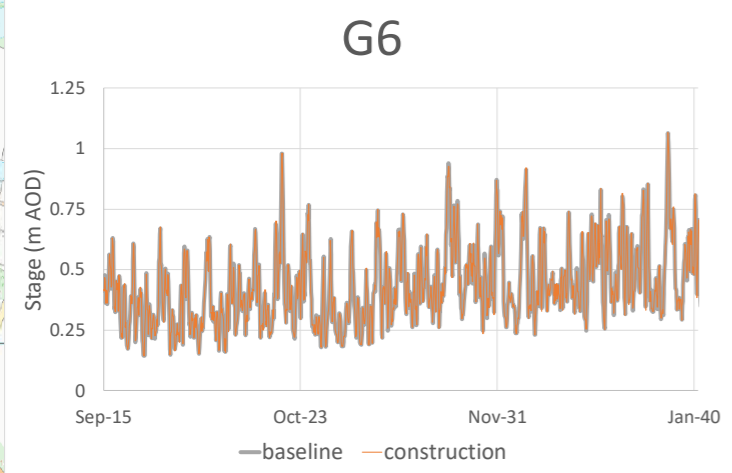
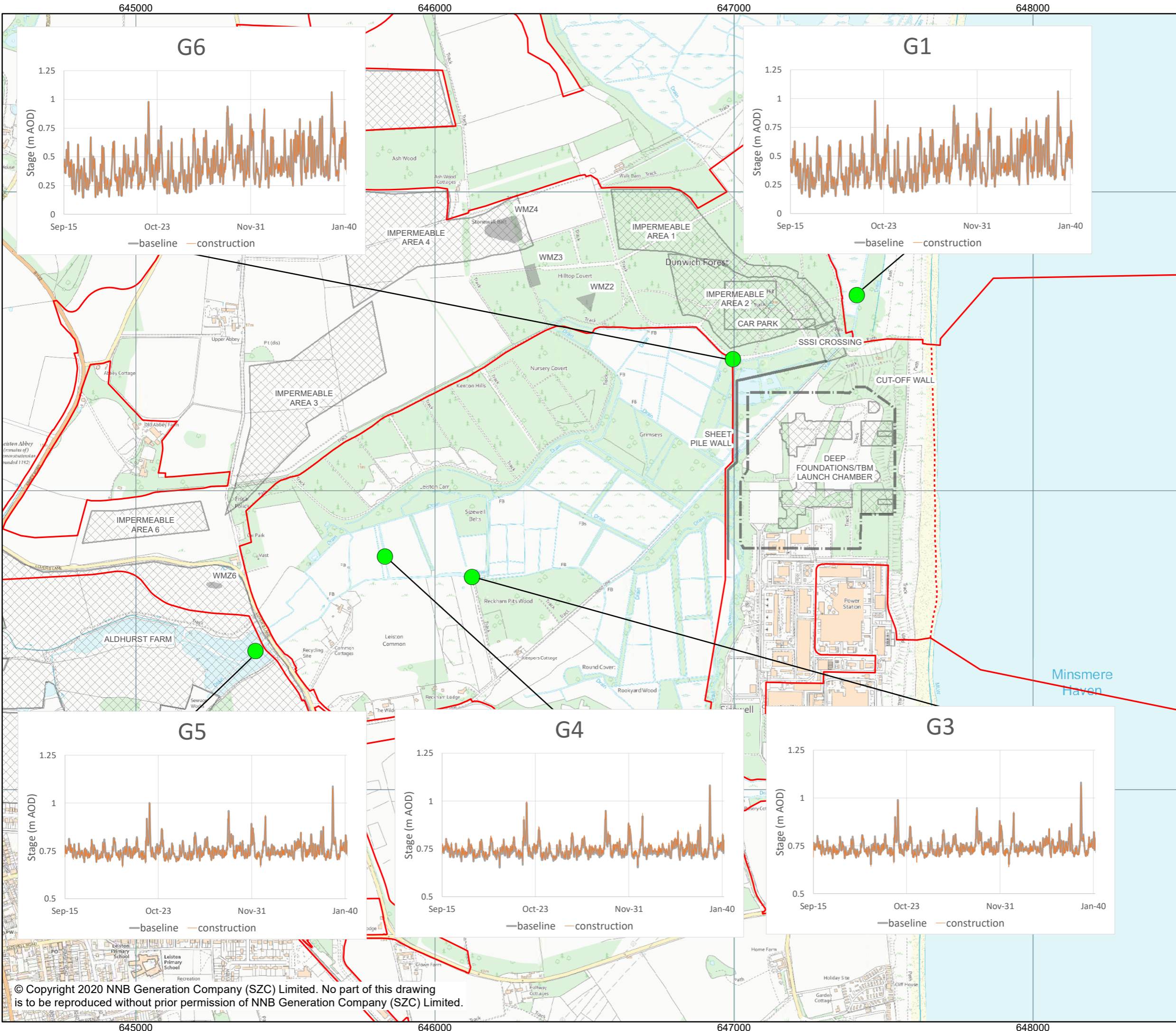
<b>DATE:</b> JAN 2020	<b>DRAWN:</b> M.S.	<b>SCALE:</b> 1:10,000 @A3
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**DOCUMENT:**  
 SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**SCALE BAR**  
 0 0.1 0.2 0.3 0.4 0.5 KM







**NOTES**

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

**BASELINE RUNS:**  
53-B-I-1520e / 2022f / 2232f / 3240d

**CONSTRUCTION RUNS:**  
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

**KEY**

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

NOT PROTECTIVELY MARKED

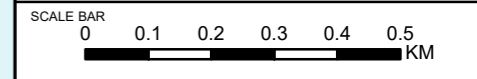
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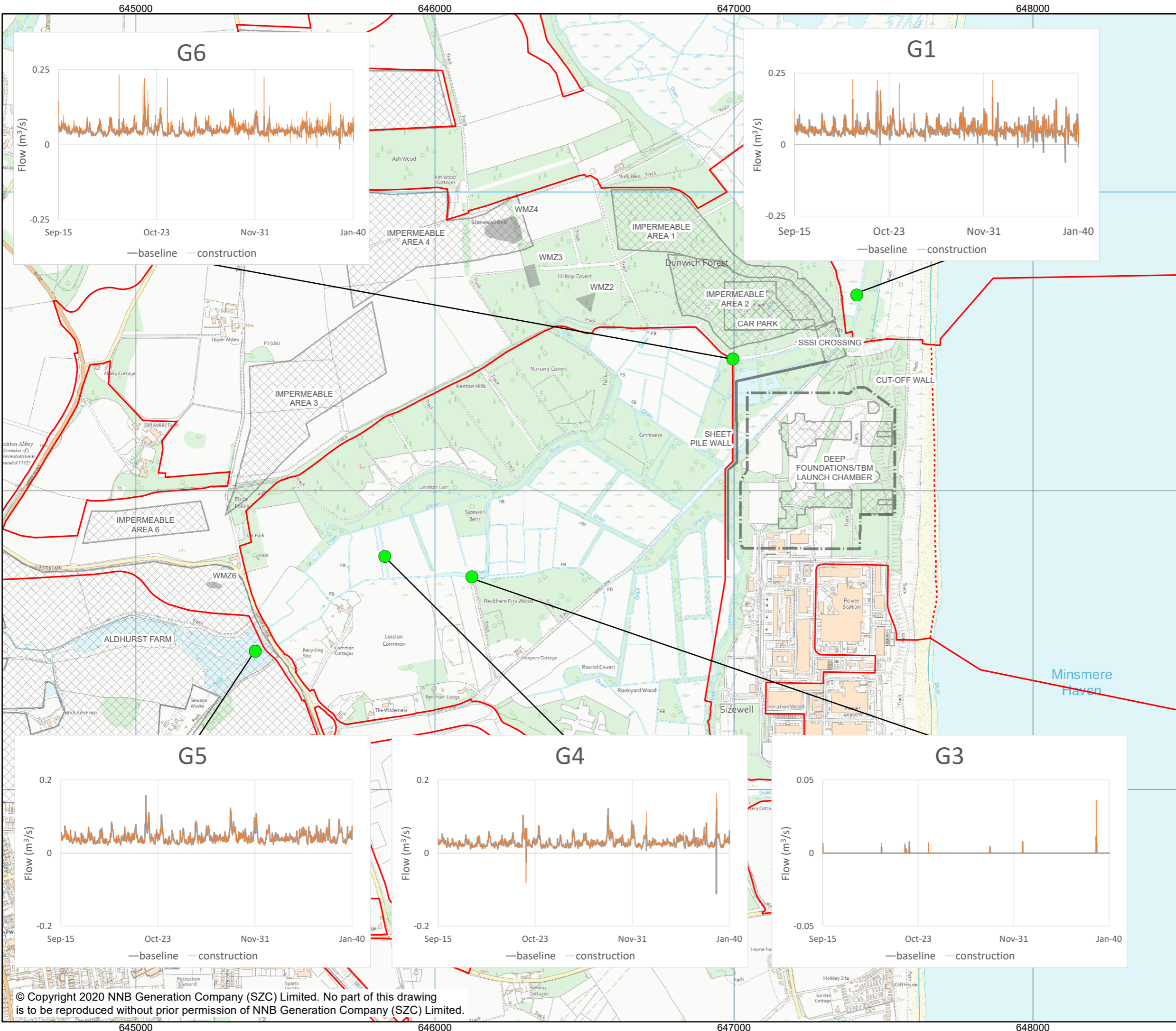


**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED STAGE AT STREAM GAUGING LOCATIONS (CONSTRUCTION AND BASELINE INTERMEDIATE SCENARIO 2015-2040)

**DRAWING NO:** FIGURE 19A.109  
**DATE:** JAN 2020 **DRAWN:** M.S **SCALE:** 1:12,000 @A3





**NOTES**

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

**BASELINE RUNS:**  
53-B-I-1520e / 2022f / 2232f / 3240d

**CONSTRUCTION RUNS:**  
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

**KEY**

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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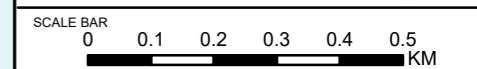


**DOCUMENT:**  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED FLOW AT STREAM GAUGING LOCATIONS (CONSTRUCTION AND BASELINE INTERMEDIATE SCENARIO 2015-2040)

**DRAWING NO:**  
FIGURE 19A.110

**DATE:** JAN 2020     **DRAWN:** MS     **SCALE:** 1:12,000 @A3



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NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

BASELINE RUNS:  
53-B-I-1520e / 2022f / 2232f / 3240d

CONSTRUCTION RUNS:  
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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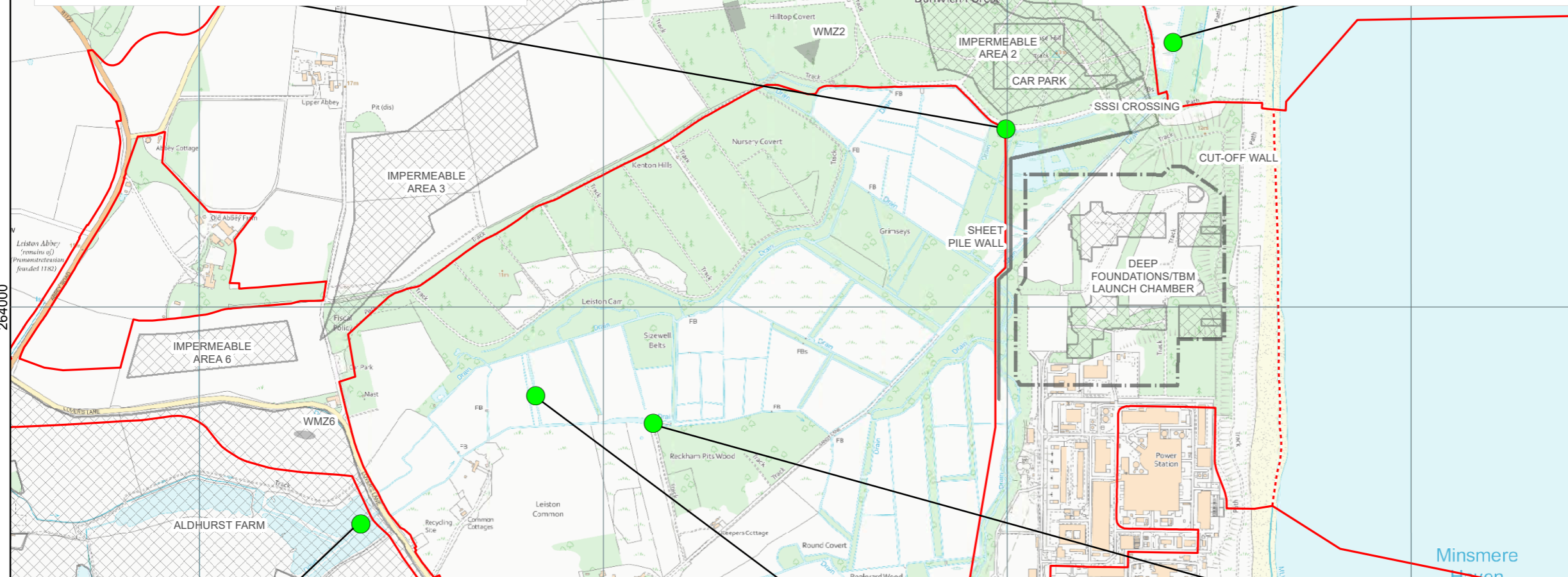
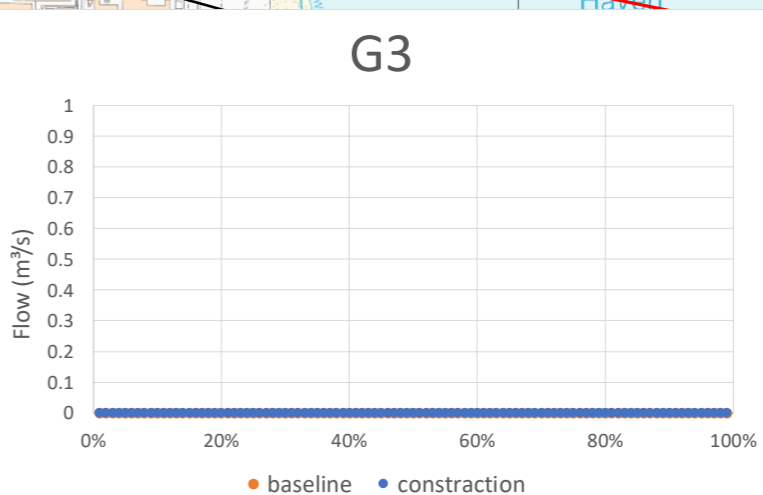
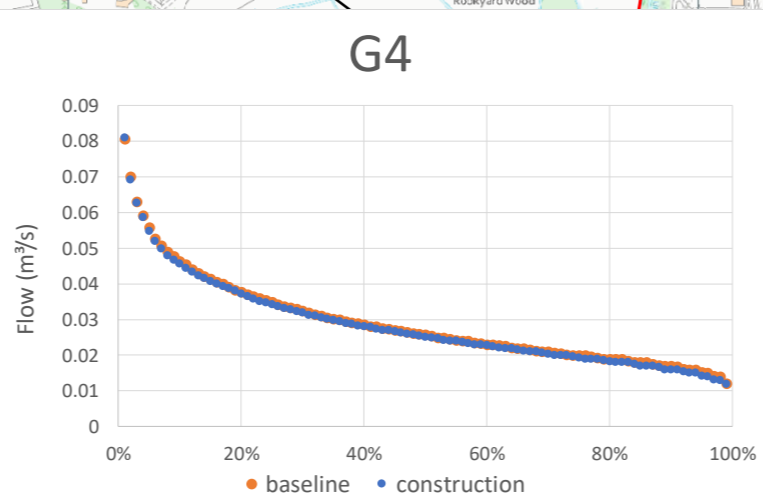
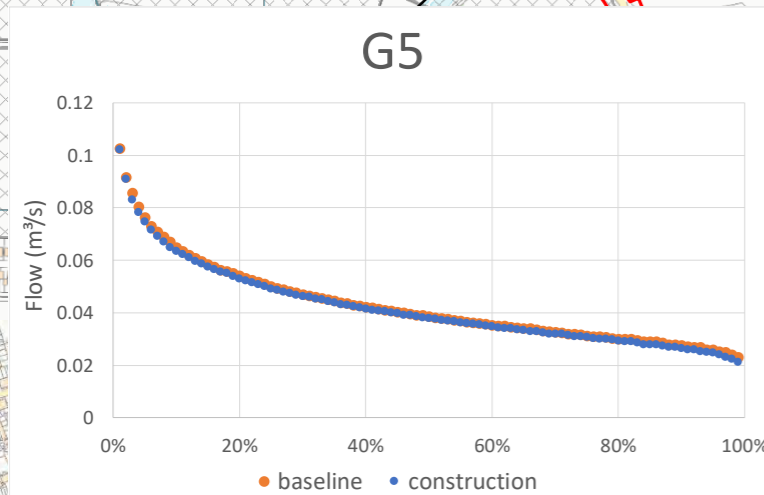
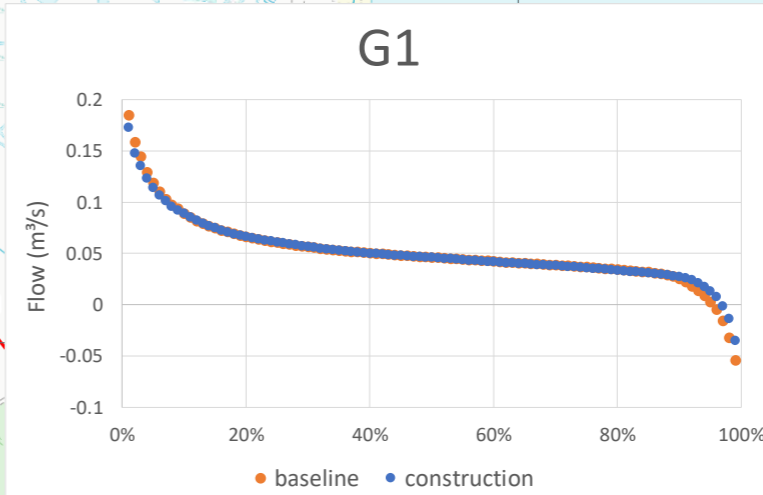
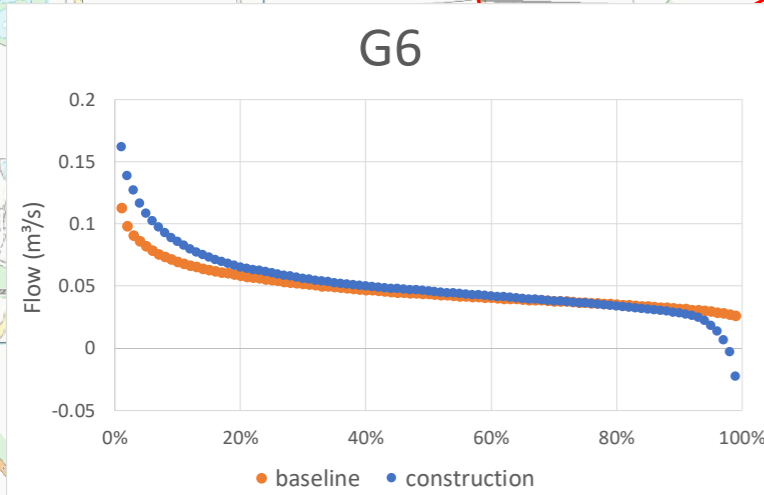
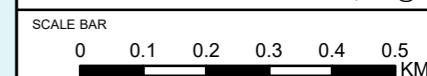


DOCUMENT:  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

DRAWING TITLE:  
SIMULATED WATER FLOW DURATION CURVES  
AT STREAM GAUGING LOCATIONS  
(CONSTRUCTION AND BASELINE INTERMEDIATE  
SCENARIO 2015-2040)

DRAWING NO:  
FIGURE 19A.111

DATE: JAN 2020      DRAWN: M.S.      SCALE: 1:12,000 @A3

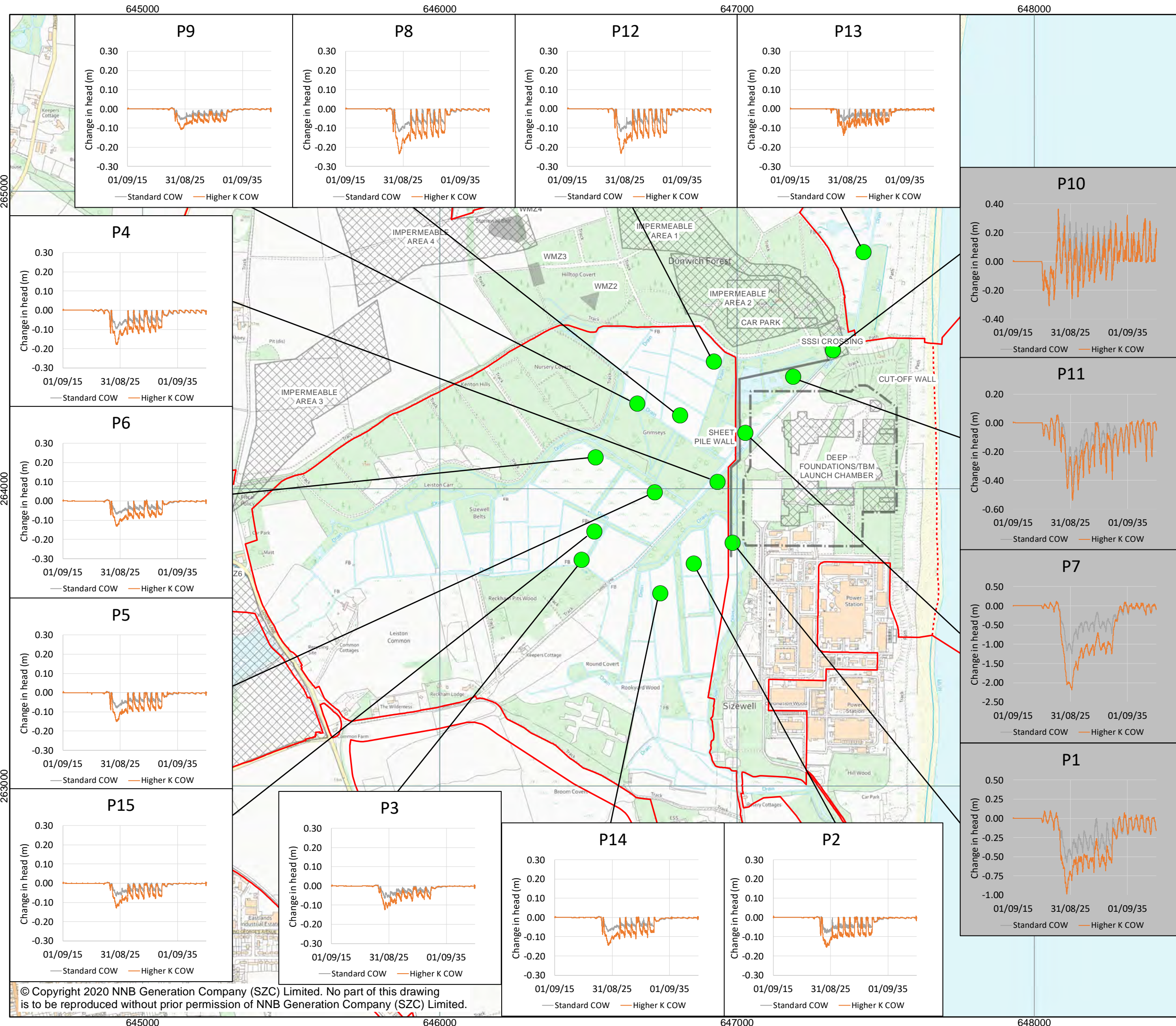


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**NOTES**



HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

**BASELINE RUNS:**  
53-B-D-1520d / 2022b / 2232f / 3240d

**INITIAL CONSTRUCTION RUNS:**  
53-C-D-1520b / 2022a / 2224h / 2432g / 3240d

**SENSITIVITY RUNS:**  
53-UC-D1-2224 / 2432 / 3240

**KEY**

- PEAT MONITORING BOREHOLES
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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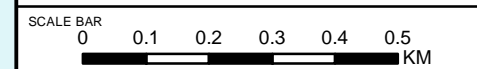


**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
PROJECTED CHANGES IN SIMULATED WATER LEVELS IN THE PEAT FROM CONSTRUCTION: INCREASED PERMEABILITY CUT-OFF WALL (2015-2040)

**DRAWING NO:**  
FIGURE 19A.112

**DATE:** JAN 2020      **DRAWN:** MG      **SCALE:** 1:12,000 @A3

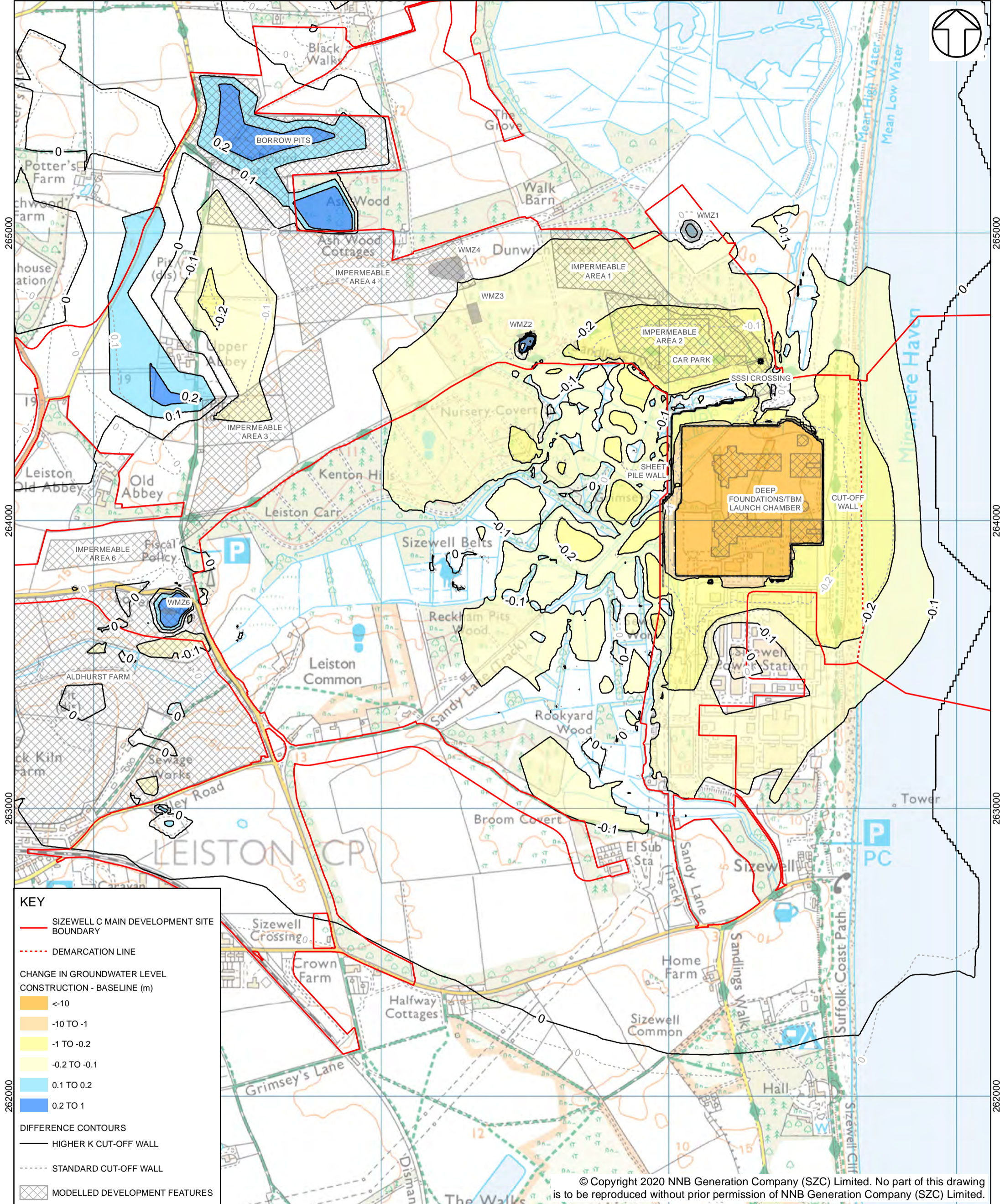


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**KEY**

- SIZESWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

**CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)**

- <math><-10</math>
- <math>-10</math> TO <math>-1</math>
- <math>-1</math> TO <math>-0.2</math>
- <math>-0.2</math> TO <math>-0.1</math>
- <math>0.1</math> TO <math>0.2</math>
- <math>0.2</math> TO <math>1</math>

**DIFFERENCE CONTOURS**

- HIGHER K CUT-OFF WALL
- STANDARD CUT-OFF WALL

MODELLED DEVELOPMENT FEATURES

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**NOTES**

BASELINE RUN:  
2232f

INITIAL CONSTRUCTION RUN:  
2432g

SENSITIVITY RUN:  
53-UC-D1-2432

DRAWING TITLE:  
PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE WATER TABLE AQUIFER: INCREASED PERMEABILITY CUT-OFF WALL (9 JANUARY 2025)

NOT PROTECTIVELY MARKED

DRAWING NO:  
FIGURE 19A.113

DATE:  
JAN 2020

DRAWN:  
M.G.

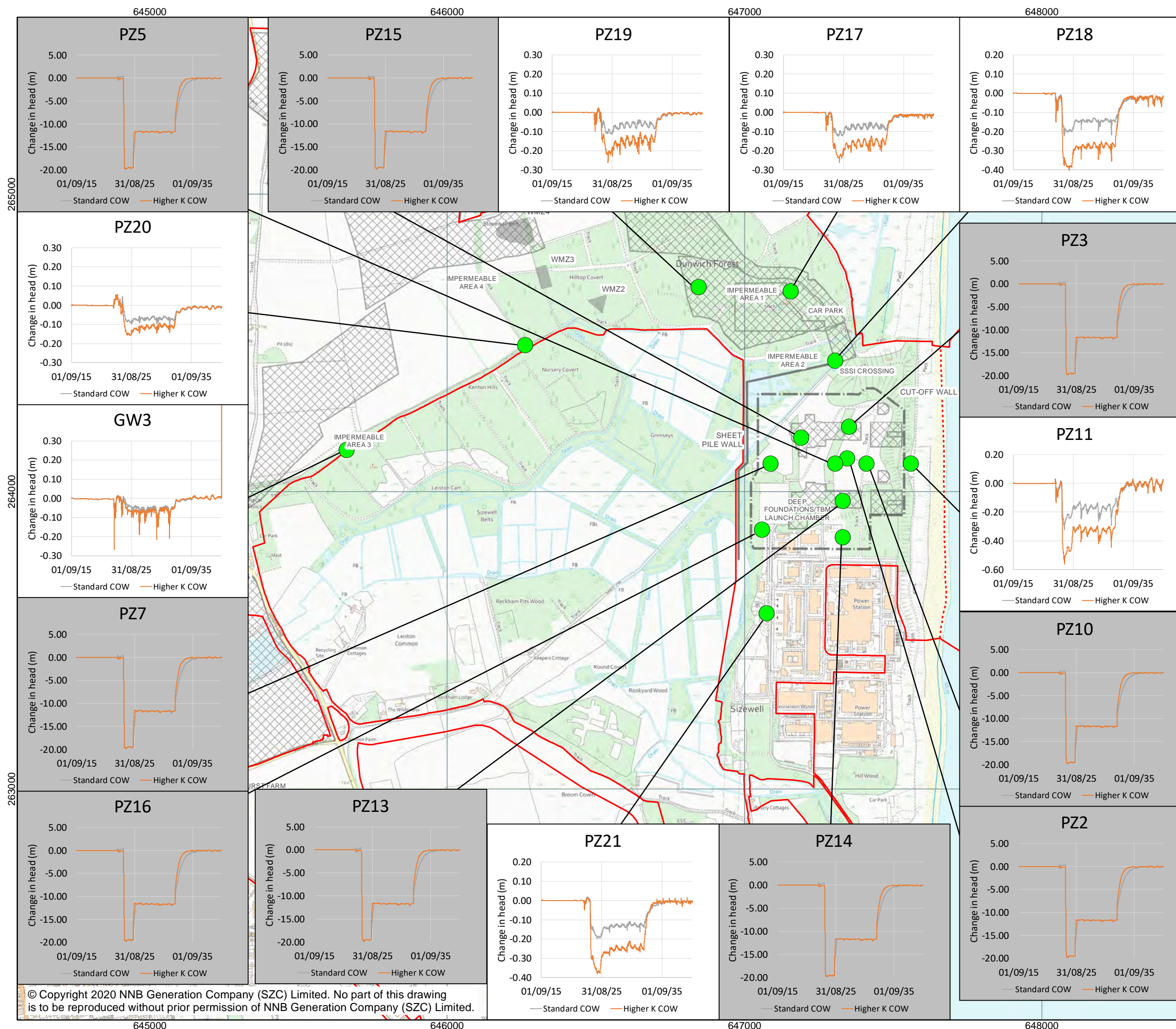
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DOCUMENT:  
SIZESWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

SCALE BAR

0 0.1 0.2 0.3 0.4 0.5 KM





**NOTES**

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

**BASELINE RUNS:**  
53-B-D-1520d / 2022b / 2232f / 3240d

**INITIAL CONSTRUCTION RUNS:**  
53-C-D-1520b / 2022a / 2224h / 2432g / 3240d

**SENSITIVITY RUNS:**  
53-UC-D1-2224 / 2432 / 3240

- KEY**
- CRAG MONITORING BOREHOLES
  - SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
  - - - DEMARCATION LINE
  - MODELLED DEVELOPMENT FEATURES

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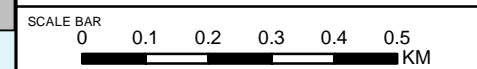


**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
PROJECTED CHANGES IN SIMULATED WATER LEVELS IN THE SHALLOW CRAG FROM CONSTRUCTION: INCREASED PERMEABILITY CUT-OFF WALL (2015-2040)

**DRAWING NO:**  
FIGURE 19A.114

**DATE:** JAN 2020    **DRAWN:** MG    **SCALE:** 1:12,000 @A3



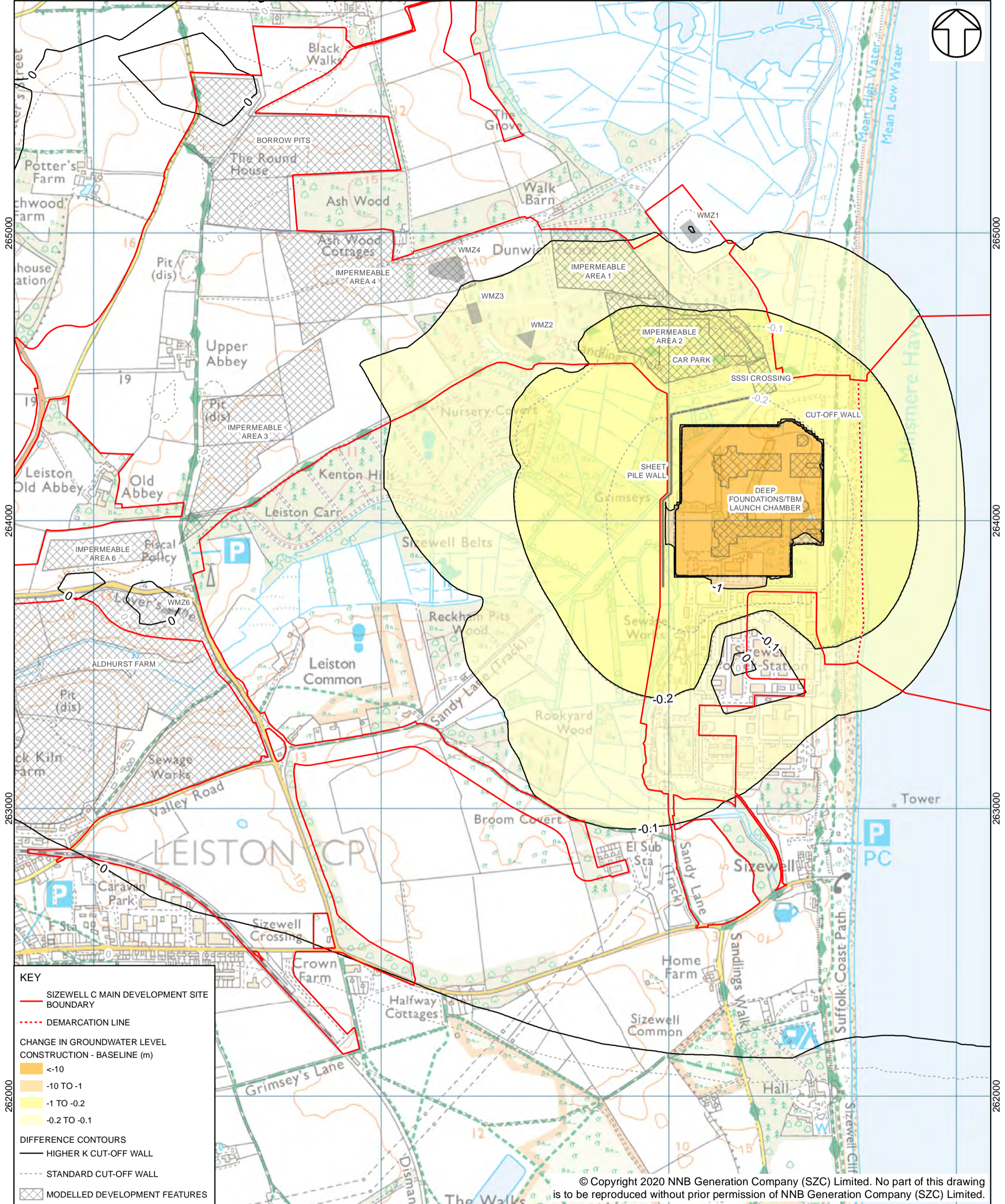
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**KEY**

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)**
- <-10
- 10 TO -1
- 1 TO -0.2
- 0.2 TO -0.1
- DIFFERENCE CONTOURS**
- HIGHER K CUT-OFF WALL
- STANDARD CUT-OFF WALL
- MODELLED DEVELOPMENT FEATURES

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**NOTES**

BASELINE RUN:  
 53-B-D-2232f

INITIAL CONSTRUCTION RUN:  
 53-C-D-2432g

SENSITIVITY RUNS:  
 53-UC-D1-2224 / 2432

**DRAWING TITLE:**  
 MAXIMUM DRAWDOWN CONTOURS IN SHALLOW CRAG:  
 INCREASED PERMEABILITY CUT-OFF WALL  
 (9 JANUARY 2025)

**NOT PROTECTIVELY MARKED**

**DRAWING NO.:**  
 FIGURE 19A.115

**DATE:** JAN 2020     **DRAWN:** M.G.     **SCALE:** 1:12,000 @A3

**DOCUMENT:**  
 SIZEWELL C  
 ENVIRONMENTAL STATEMENT  
 VOLUME 2  
 APPENDIX 19A  
 NUMERICAL MODELLING REPORT

**SCALE BAR**

0   0.1   0.2   0.3   0.4   0.5  
 KM





NOTES

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

**BASILINE RUNS:**  
53-B-D-1520d / 2022b / 2232f / 3240d

**CONSTRUCTION RUNS:**  
53-C-D-1520b / 2022a / 2224h / 2432g / 3240d

**SENSITIVITY RUNS:**  
53-UC-D1-2224 / 2432 / 3240

KEY

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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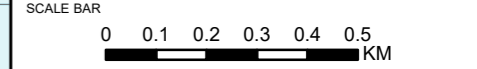
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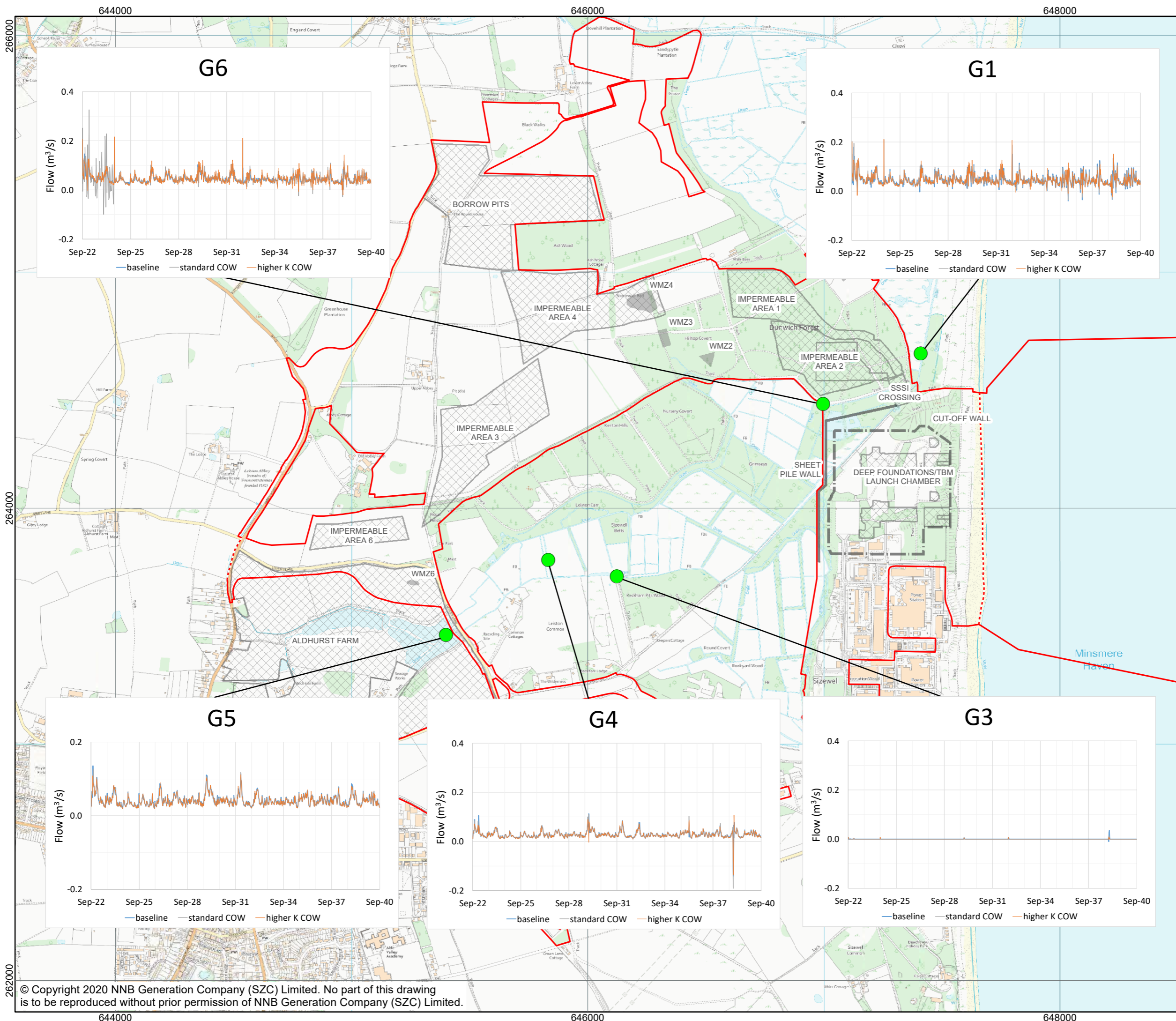
**DOCUMENT:**  
SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED STAGE AT STREAM GAUGING LOCATIONS (INCREASED PERMEABILITY CUT-OFF WALL 2015-2040)

**DRAWING NO:** FIGURE 19A.116  
**DATE:** JAN 2020 **DRAWN:** M.S. **SCALE:** 1:15,000 @A3







**NOTES**

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

**BASILINE RUNS:**  
53-B-D-1520d / 2022b / 2232f / 3240d

**INITIAL CONSTRUCTION RUNS:**  
53-C-D-1520b / 2022a / 2224h / 2432g / 3240d

**SENSITIVITY RUNS:**  
53-UC-D1-2224 / 2432 / 3240

**KEY**

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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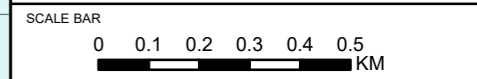


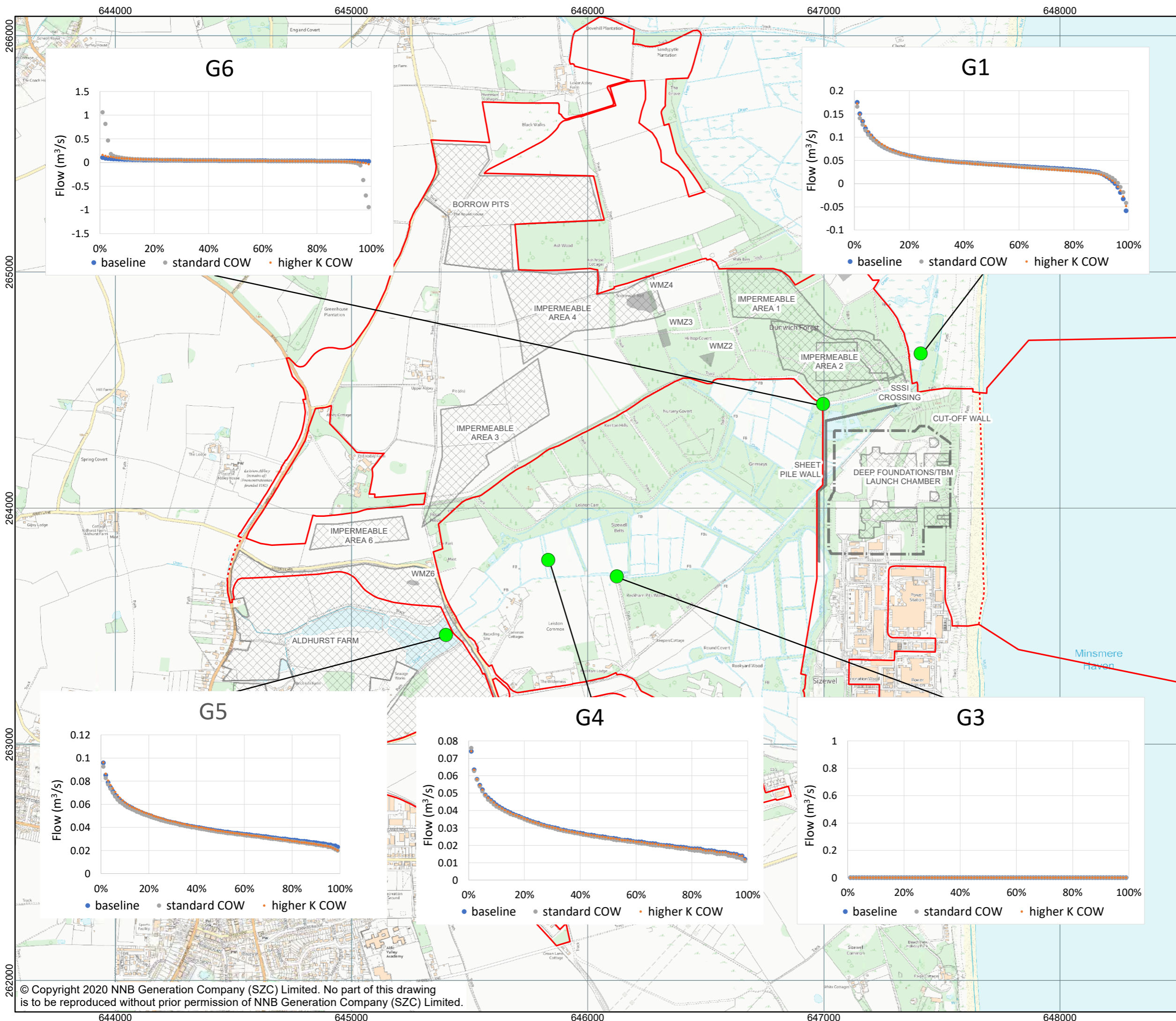
**DOCUMENT:**  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED FLOW AT STREAM  
GAUGING LOCATIONS (INCREASED  
PERMEABILITY CUT-OFF WALL  
2015-2040)

**DRAWING NO:**  
FIGURE 19A.117

**DATE:** JAN 2020      **DRAWN:** M.S.      **SCALE:** 1:15,000 @A3





**NOTES**

G7 OMITTED DUE TO LOCATION WITH MAIN DEVELOPMENT SITE

**BASILINE RUNS:**  
53-B-D-1520d / 2022b / 2232f / 3240d

**CONSTRUCTION RUNS:**  
53-C-D-1520b / 2022a / 2224h / 2432g / 3240d

**SENSITIVITY RUNS:**  
53-UC-D1-2224 / 2432 / 3240

**KEY**

- SURFACE WATER GAUGING LOCATIONS
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE
- MODELLED DEVELOPMENT FEATURES

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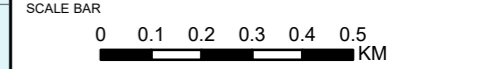


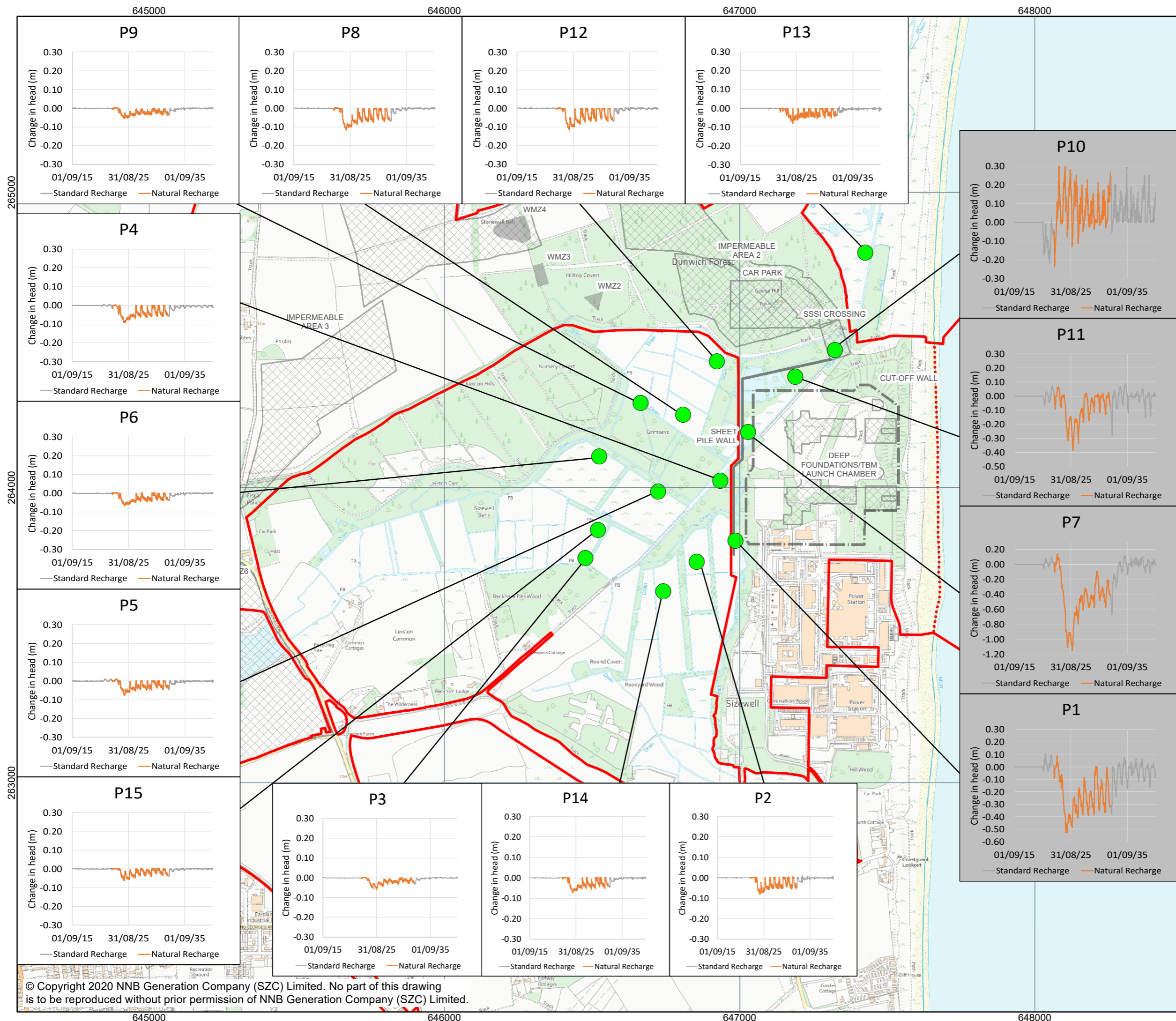
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VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

**DRAWING TITLE:**  
SIMULATED WATER FLOW DURATION CURVES AT STREAM GAUGING LOCATIONS (INCREASED PERMEABILITY CUT-OFF WALL 2015-2040)

**DRAWING NO:**  
FIGURE 19A.118

**DATE:** JAN 2020      **DRAWN:** M.S.      **SCALE:** 1:15,000 @A3





**NOTES**

HYDROGRAPHS OF BOREHOLES WITHIN FOOTPRINT OF PROPOSED DEVELOPMENT ARE SHOWN IN GREY

INITIAL BASELINE RUNS:  
53-B-I-1520e / 2022f / 2232f / 3240d

INITIAL CONSTRUCTION RUNS:  
53-C-I-1520b / 2022a / 2224e / 2432g / 3240e

SENSITIVITY RUNS:  
53-UC-11-2224a / 2432

- KEY**
- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
  - - - DEMARCATION LINE
  - PEAT MONITORING BOREHOLES
  - MODELLED DEVELOPMENT FEATURES

NOT PROTECTIVELY MARKED

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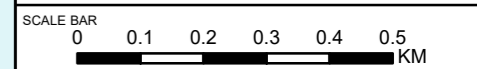


DOCUMENT:  
SIZEWELL C  
ENVIRONMENTAL STATEMENT  
VOLUME 2  
APPENDIX 19A  
NUMERICAL MODELLING REPORT

DRAWING TITLE:  
PROJECTED CHANGES IN SIMULATED GROUNDWATER LEVELS IN THE PEAT FROM CONSTRUCTION: NATURAL RECHARGE IN TEMPORARY CONSTRUCTION AREAS (2015-2040)

DRAWING NO:  
FIGURE 19A.119

DATE: JAN 2020      DRAWN: M.S.      SCALE: 1:12,000 @A3

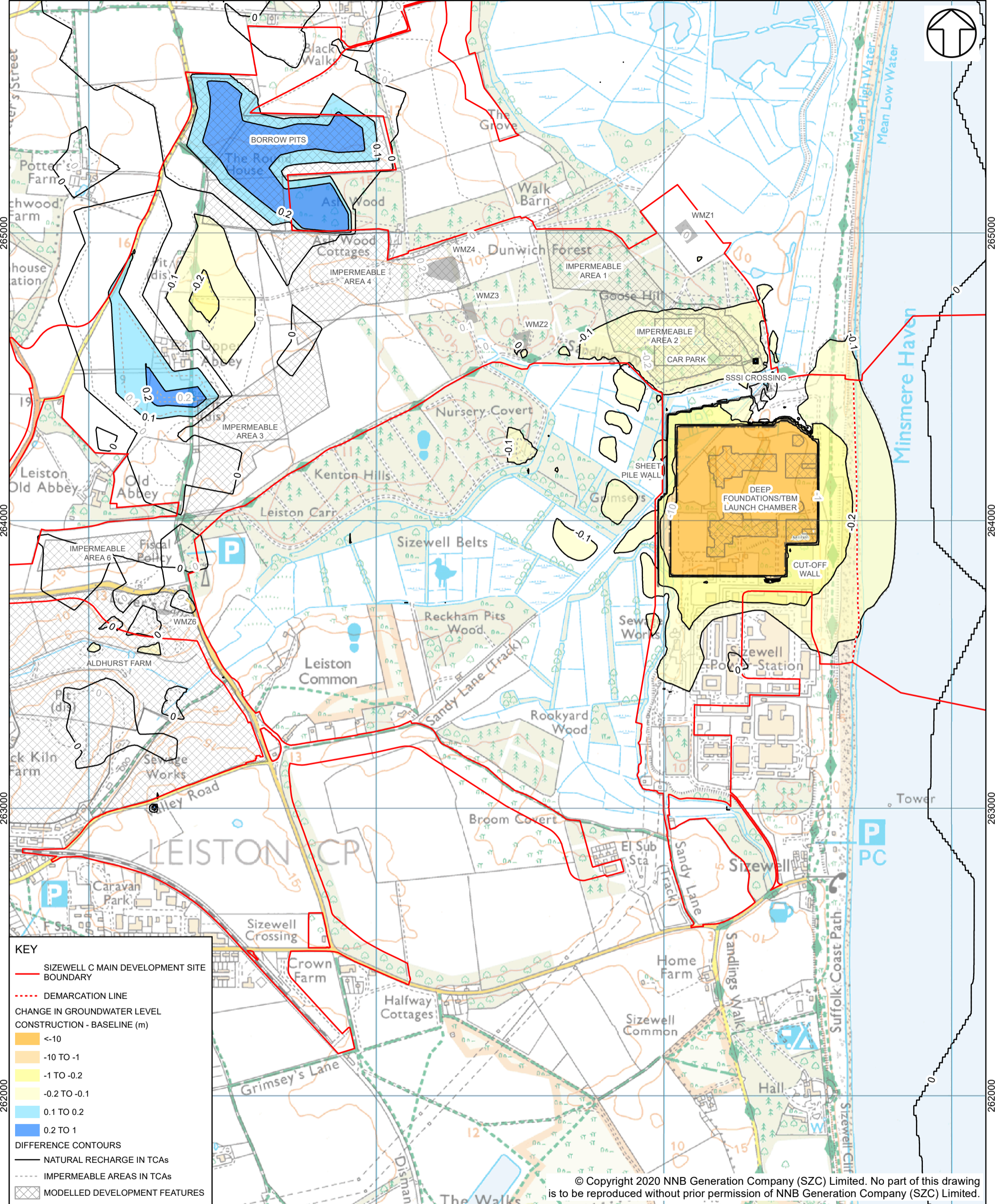


645000

646000

647000

648000



**KEY**

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- - - DEMARCATION LINE
- CHANGE IN GROUNDWATER LEVEL CONSTRUCTION - BASELINE (m)
- <-10
- 10 TO -1
- 1 TO -0.2
- 0.2 TO -0.1
- 0.1 TO 0.2
- 0.2 TO 1
- DIFFERENCE CONTOURS
- NATURAL RECHARGE IN TCAs
- IMPERMEABLE AREAS IN TCAs
- MODELLED DEVELOPMENT FEATURES

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**NOTES**

**BASELINE RUNS:**  
 53-B-D-1520d / 2022b / 2232f / 3240d

**INITIAL CONSTRUCTION RUNS:**  
 53-C-D-1520b / 2022a / 2224h / 2432g / 3240d

**SENSITIVITY RUNS:**  
 53-UC-D1-2224 / 2432 / 3240

**DRAWING TITLE:**  
 PROJECTED MAXIMUM DRAWDOWN CONTOURS IN THE WATER TABLE AQUIFER: NATURAL RECHARGE IN TEMPORARY CONSTRUCTION AREAS (26 DECEMBER 2024)

**NOT PROTECTIVELY MARKED**

**DRAWING NO:**  
 FIGURE 19A.120

**DATE:** JAN 2020    **DRAWN:** M.G.    **SCALE:** 1:12,000 @A3

**DOCUMENT:**  
 SIZEWELL C ENVIRONMENTAL STATEMENT VOLUME 2 APPENDIX 19A NUMERICAL MODELLING REPORT

**SCALE BAR**  
 0 0.1 0.2 0.3 0.4 0.5 KM



