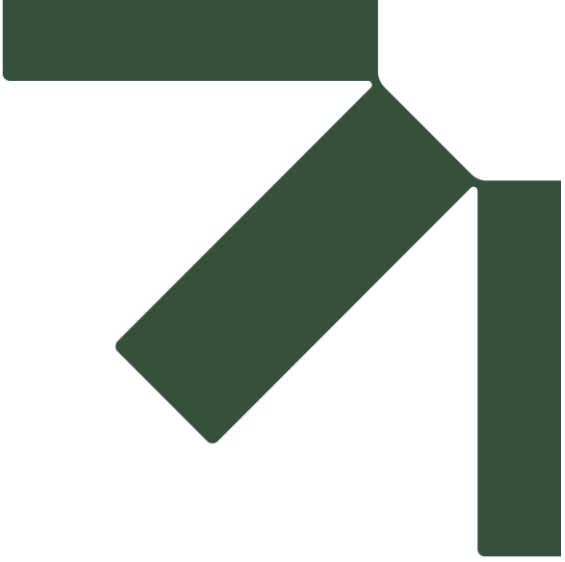




Appendix C Base Case Model Results

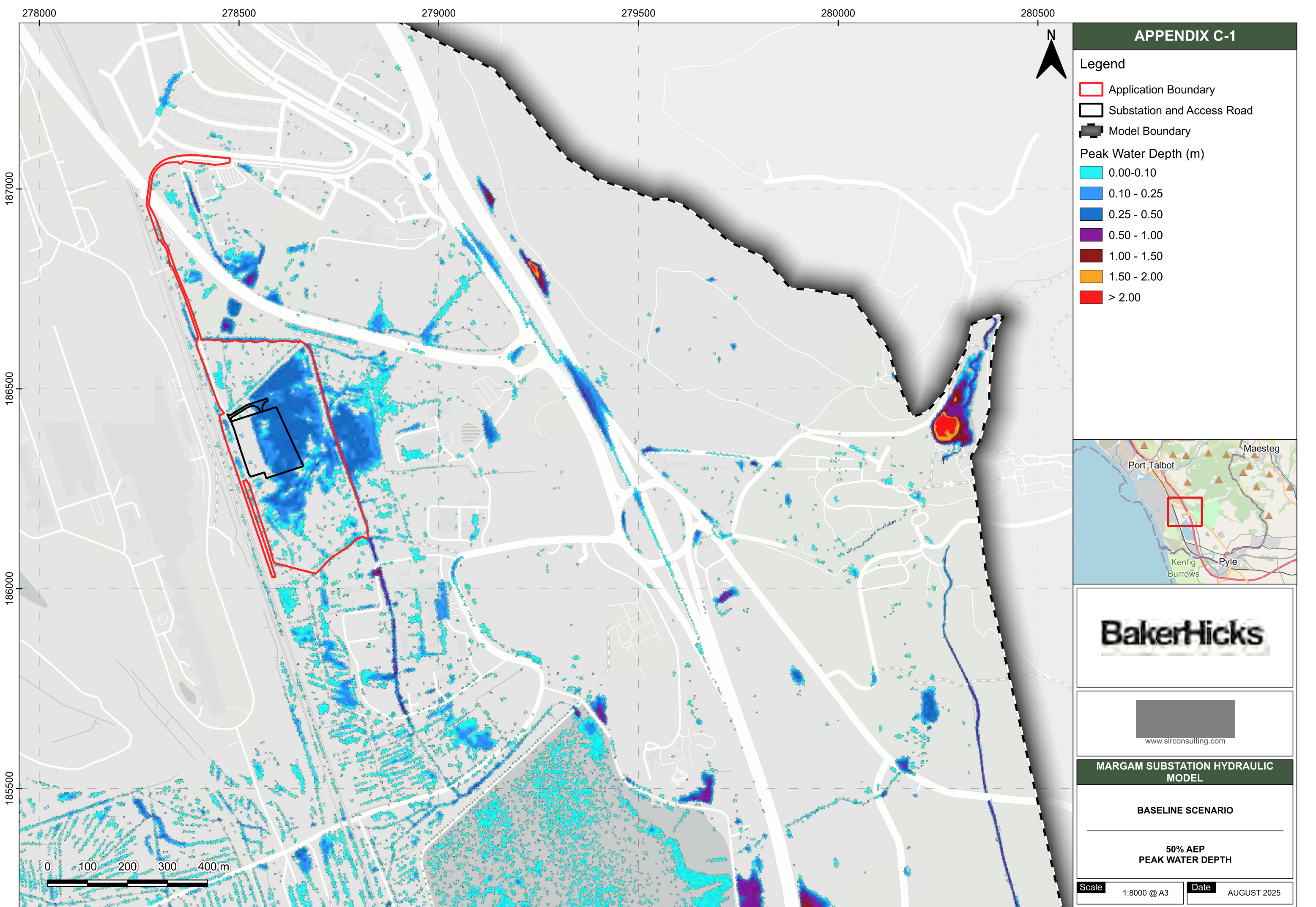
Hydraulic Modelling Report

Margam Moors – Substation Extension

BakerHicks Limited

SLR Project No.: 402.065496.00001

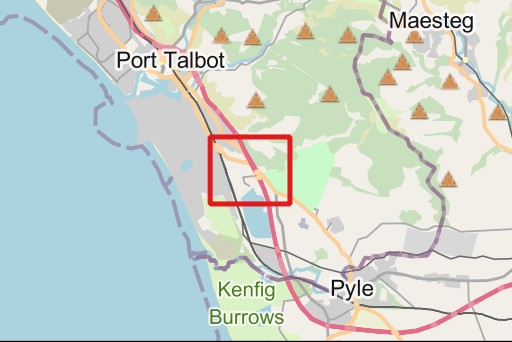
22 August 2025



APPENDIX C-1

Legend

- Application Boundary
- Substation and Access Road
- Model Boundary
- Peak Water Depth (m)
 - 0.00-0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00



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MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

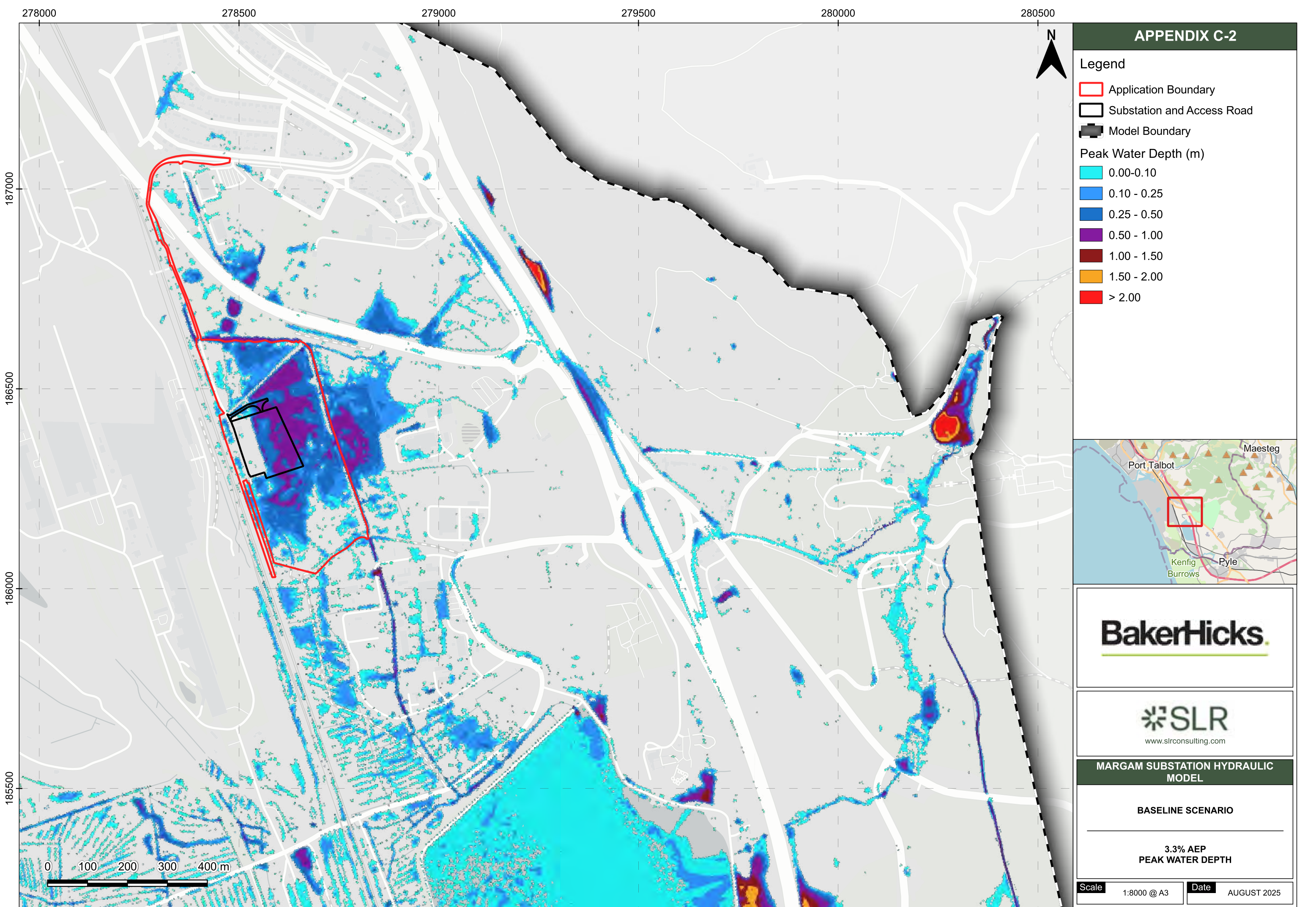
50% AEP
PEAK WATER DEPTH

Scale

1:8000 @ A3

Date

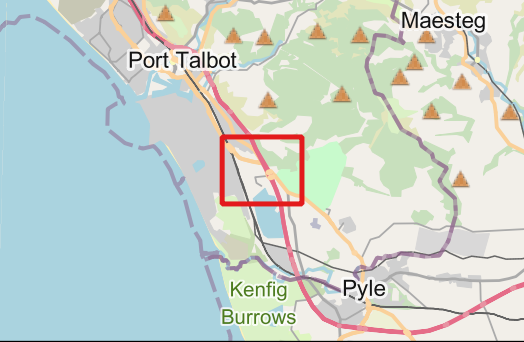
AUGUST 2025



APPENDIX C-2

Legend

- Application Boundary
- Substation and Access Road
- Model Boundary
- Peak Water Depth (m)
 - 0.00-0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00



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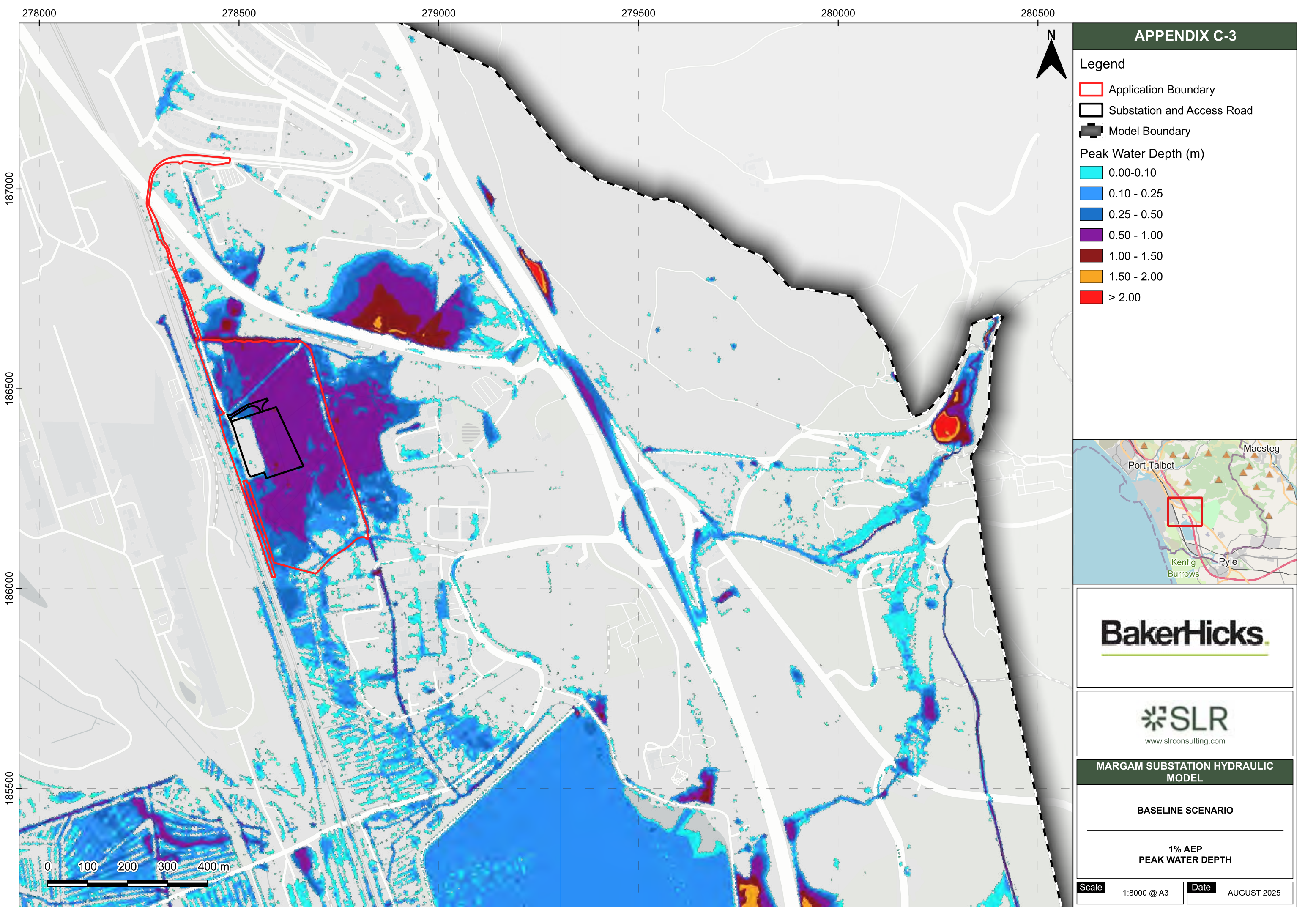
MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

3.3% AEP
PEAK WATER DEPTH

Scale 1:8000 @ A3

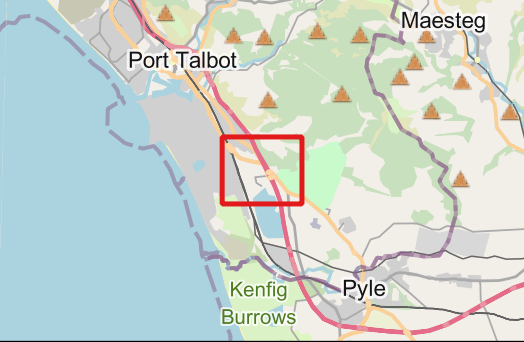
Date AUGUST 2025



APPENDIX C-3

Legend

- Application Boundary
- Substation and Access Road
- Model Boundary
- Peak Water Depth (m)
 - 0.00-0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00



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MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

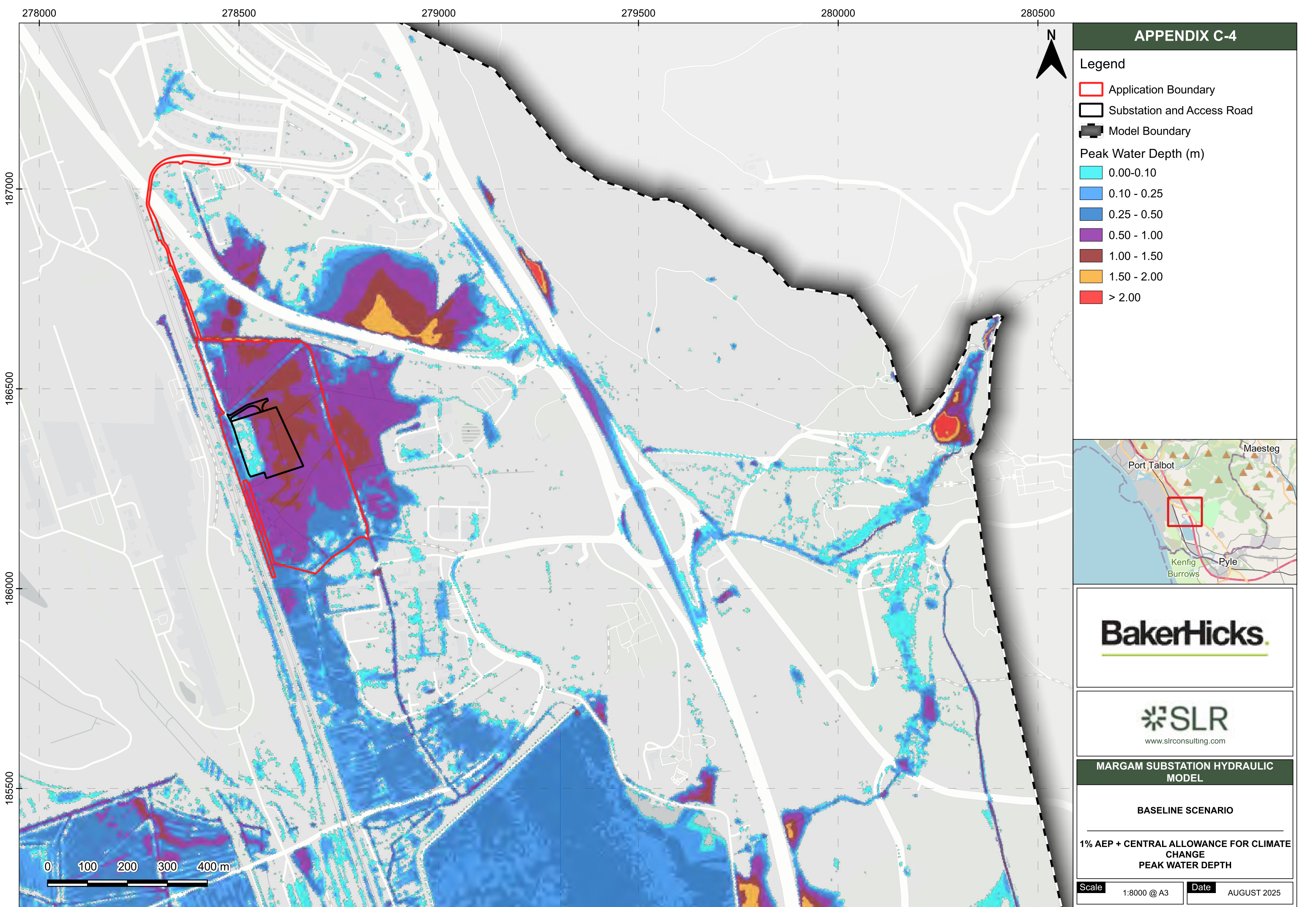
1% AEP
PEAK WATER DEPTH

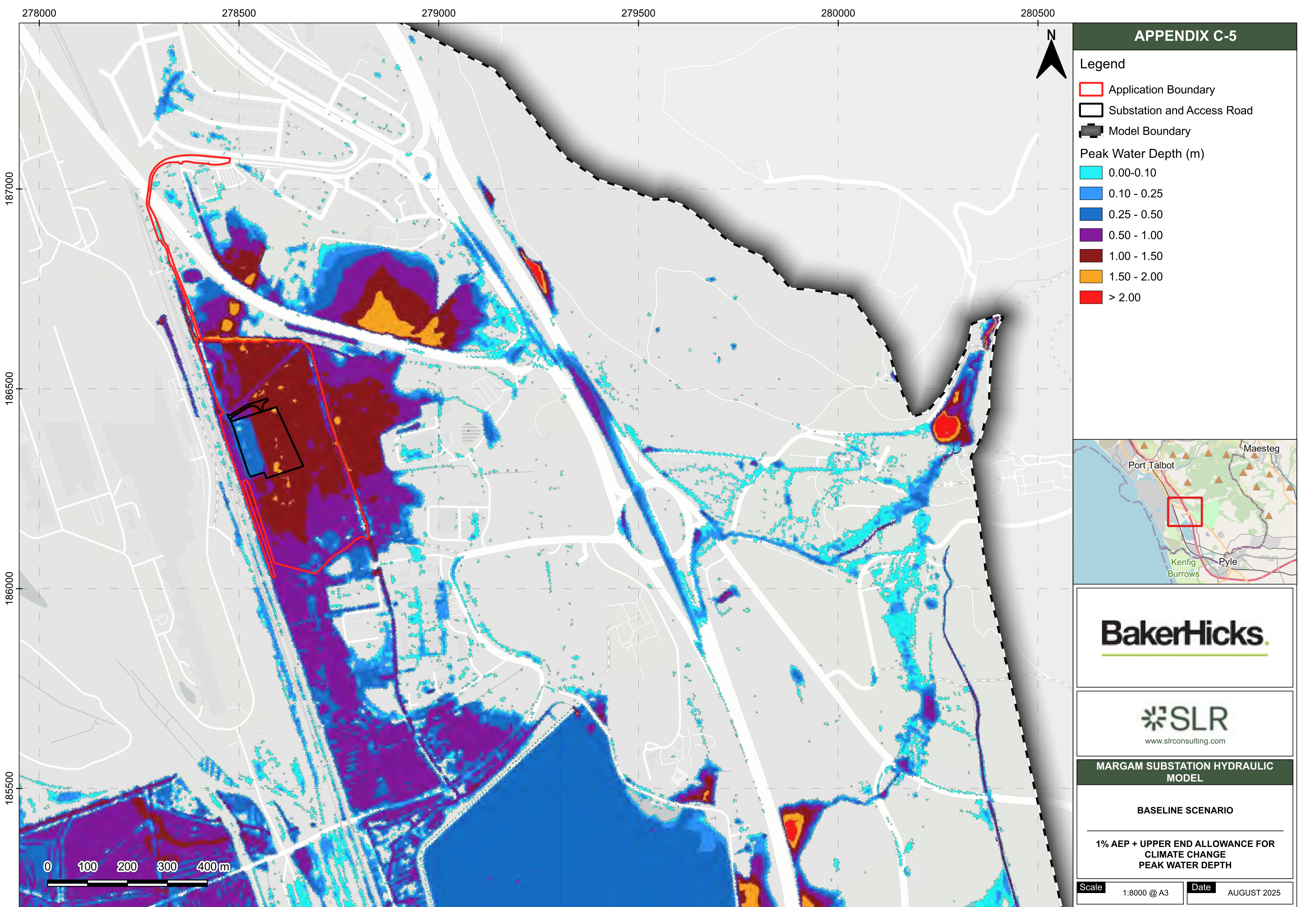
Scale

1:8000 @ A3

Date

AUGUST 2025





APPENDIX C-5

Legend

- Application Boundary
- Substation and Access Road
- Model Boundary

Peak Water Depth (m)

- 0.00-0.10
- 0.10 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

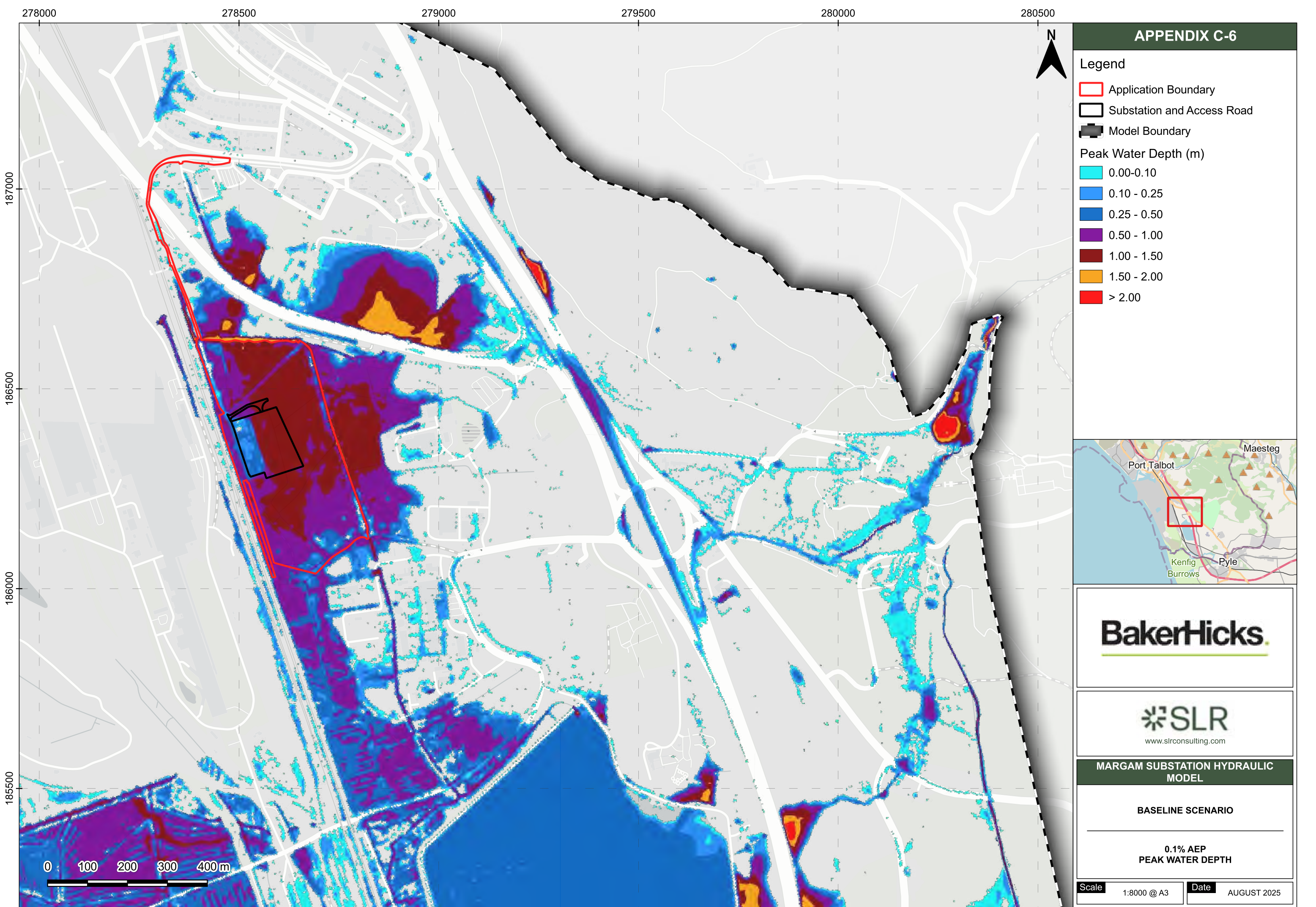
MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

1% AEP + UPPER END ALLOWANCE FOR CLIMATE CHANGE PEAK WATER DEPTH

Scale 1:8000 @ A3

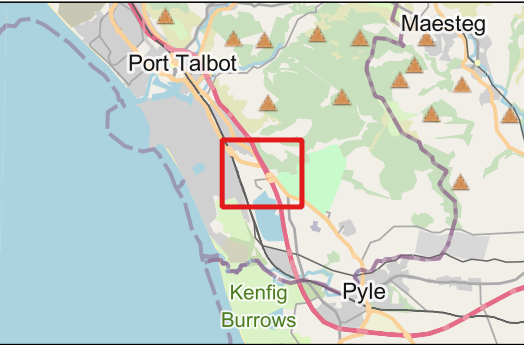
Date AUGUST 2025



APPENDIX C-6

Legend

- Application Boundary
- Substation and Access Road
- Model Boundary
- Peak Water Depth (m)
 - 0.00-0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00



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MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

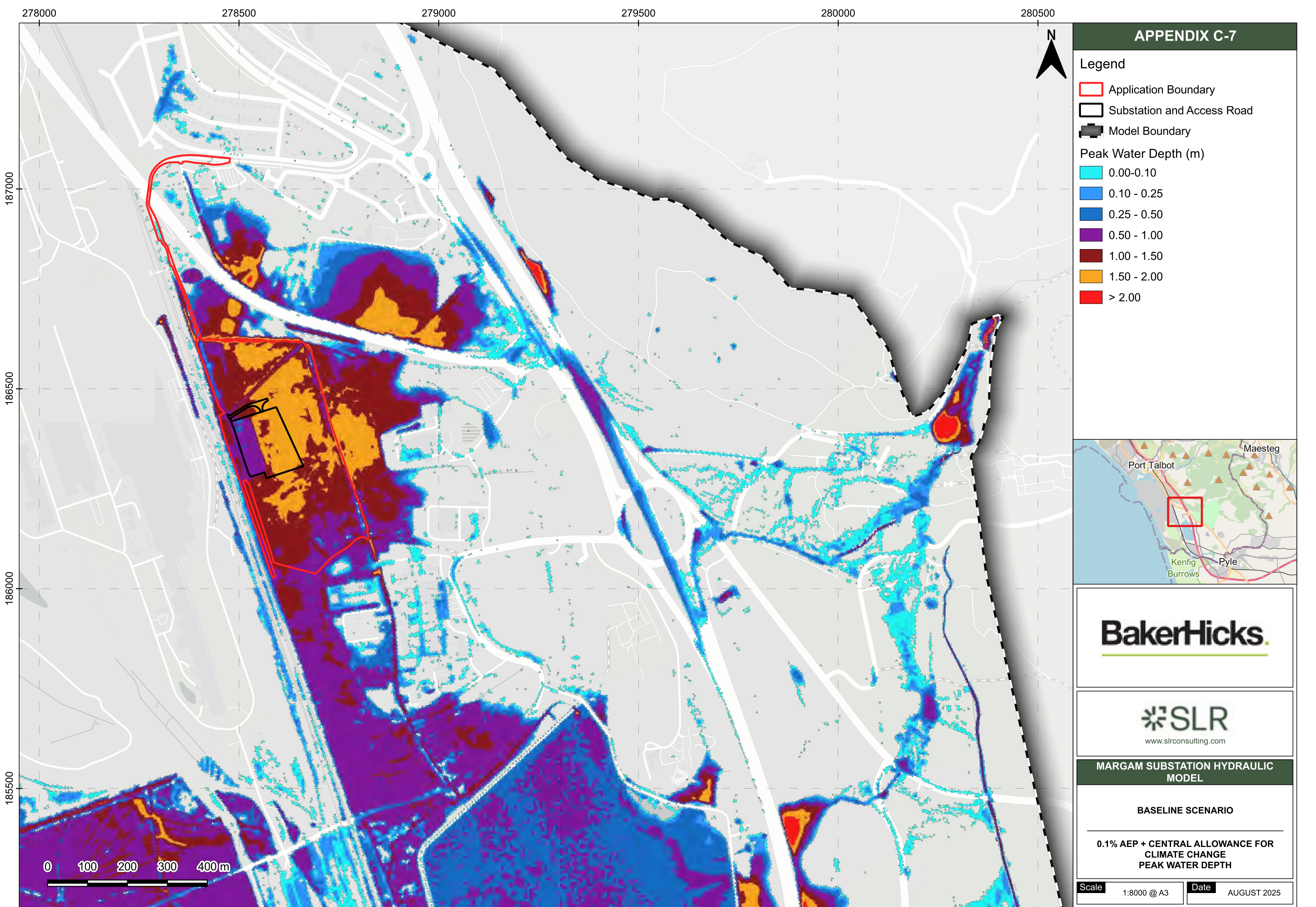
0.1% AEP
PEAK WATER DEPTH

Scale

1:8000 @ A3

Date

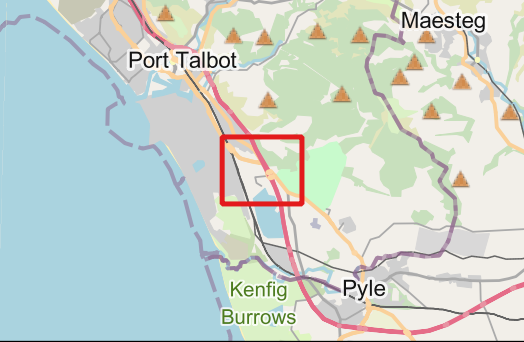
AUGUST 2025



APPENDIX C-7

Legend

- Application Boundary
- Substation and Access Road
- Model Boundary
- Peak Water Depth (m)**
 - 0.00-0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00



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MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

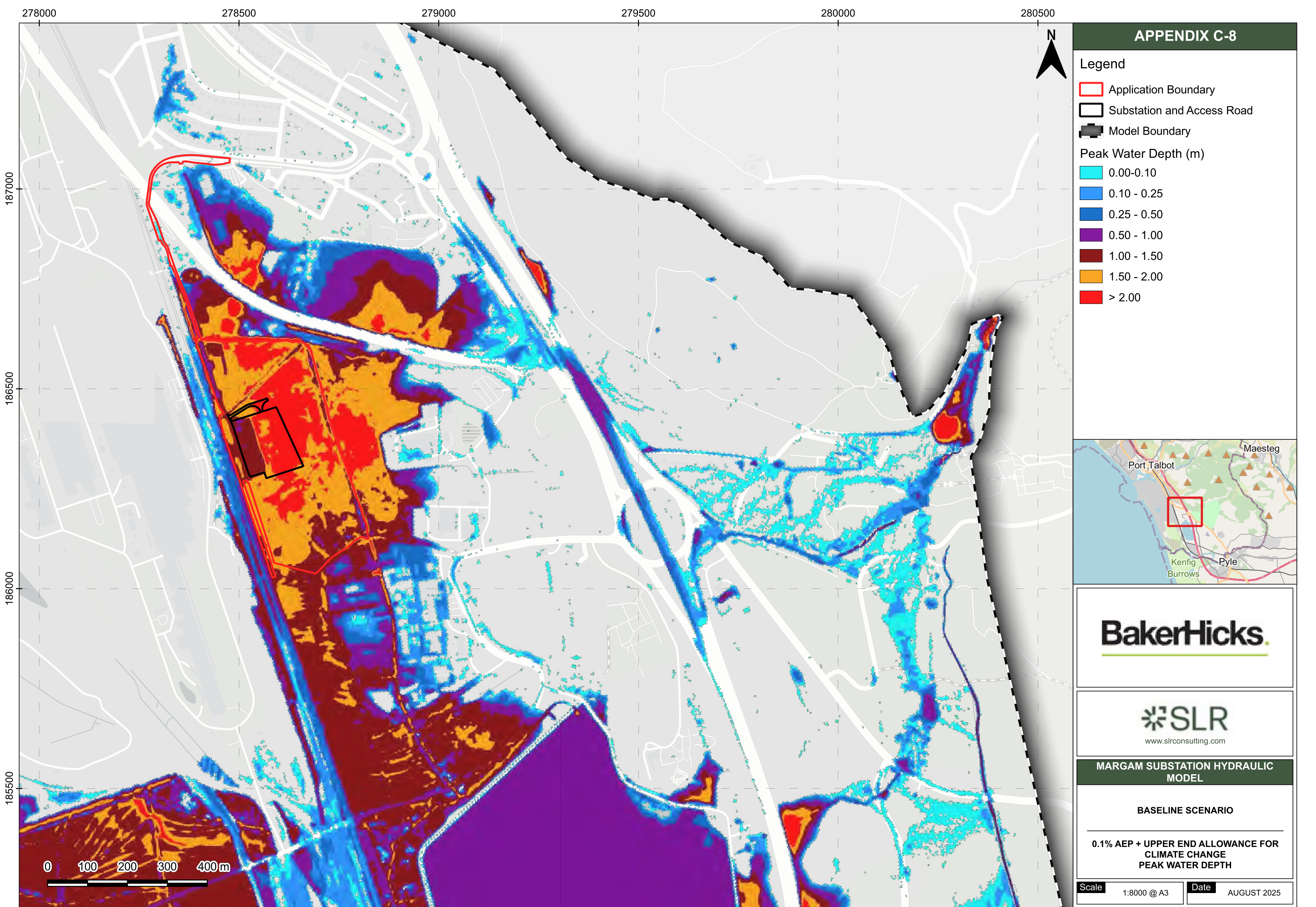
0.1% AEP + CENTRAL ALLOWANCE FOR CLIMATE CHANGE PEAK WATER DEPTH

Scale

1:8000 @ A3

Date

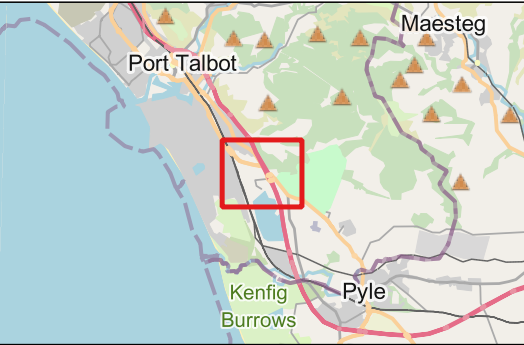
AUGUST 2025



APPENDIX C-8

Legend

- Application Boundary
- Substation and Access Road
- Model Boundary
- Peak Water Depth (m)**
 - 0.00-0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00



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MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

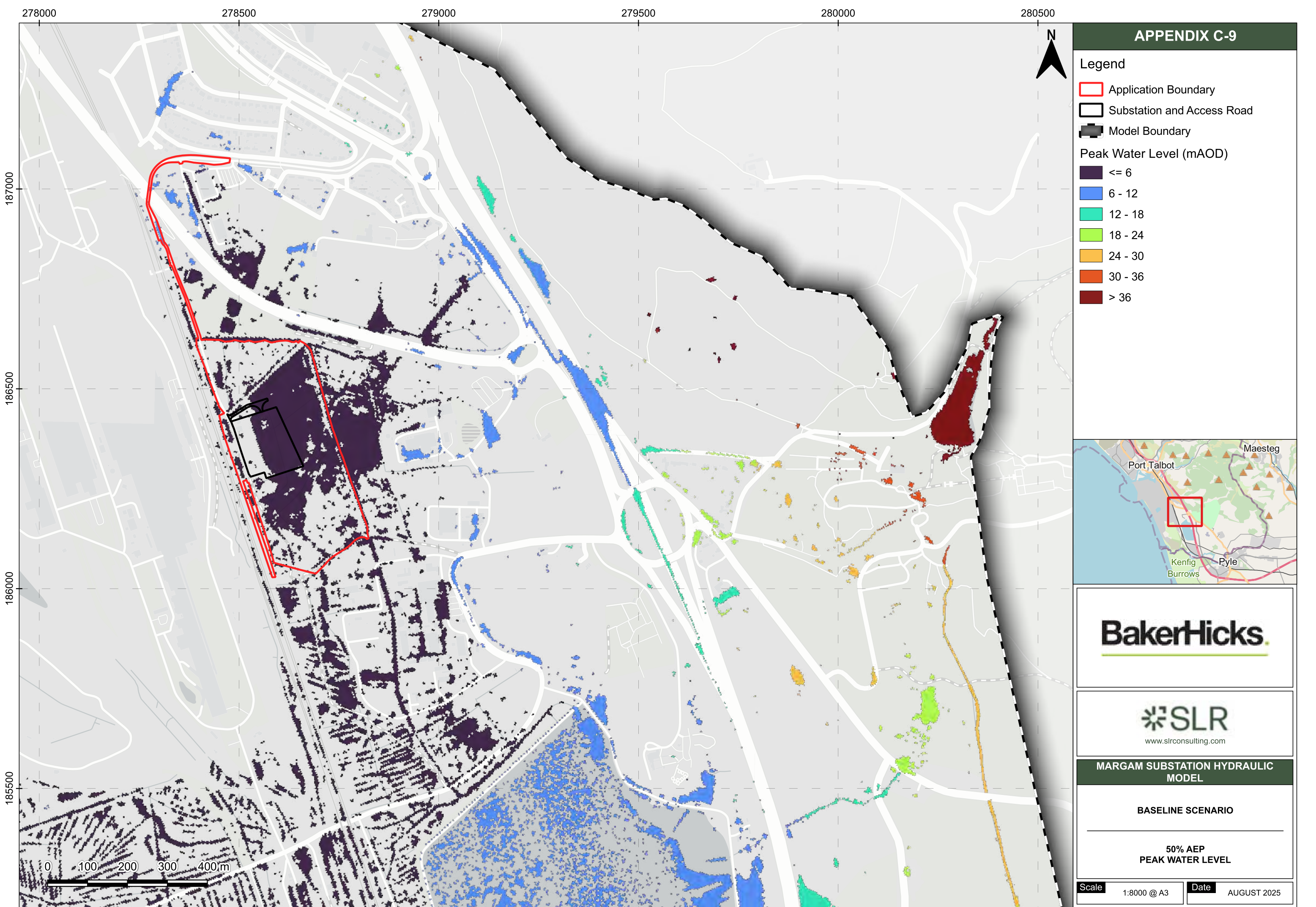
0.1% AEP + UPPER END ALLOWANCE FOR CLIMATE CHANGE PEAK WATER DEPTH

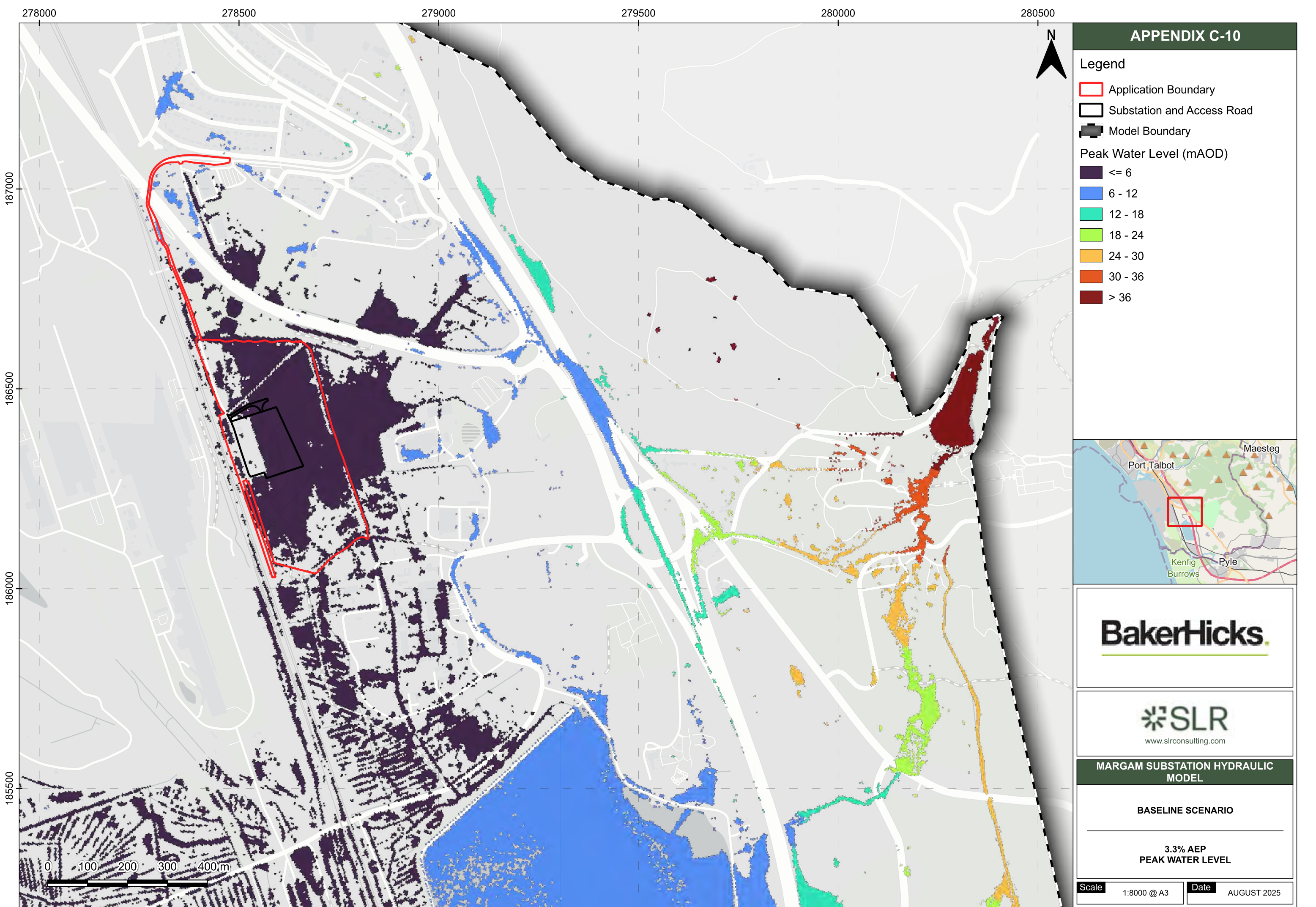
Scale

1:8000 @ A3

Date

AUGUST 2025





APPENDIX C-10

Legend

Application Boundary

Substation and Access Road

Model Boundary

Peak Water Level (mAOD)

<= 6

6 - 12

12 - 18

18 - 24

24 - 30

30 - 36

> 36

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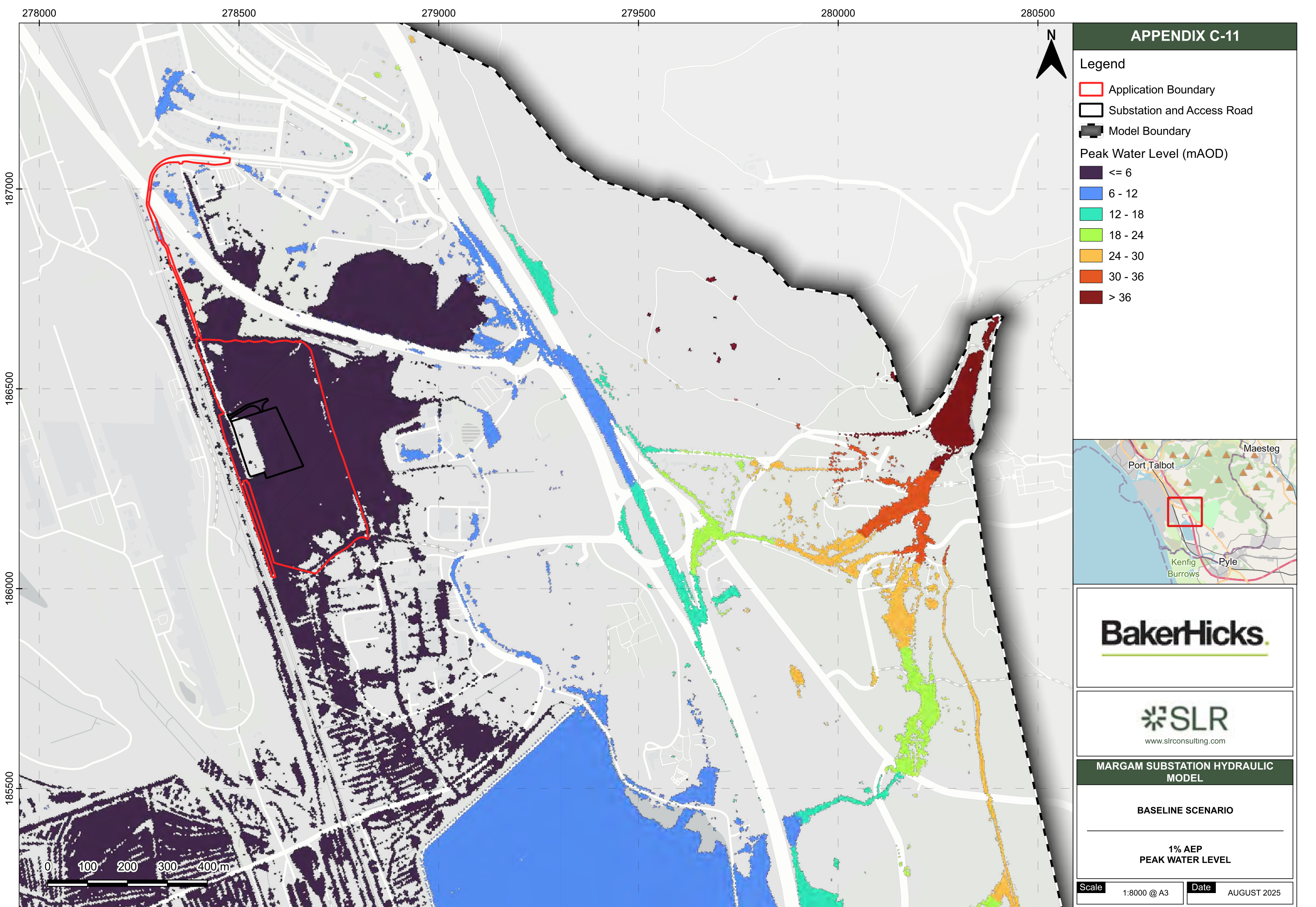
MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

**3.3% AEP
PEAK WATER LEVEL**

Scale
1:8000 @ A3

Date
AUGUST 2025



APPENDIX C-11

Legend

Application Boundary

Substation and Access Road

Model Boundary

Peak Water Level (mAOD)

<= 6

6 - 12

12 - 18

18 - 24

24 - 30

30 - 36

> 36

MARGAM SUBSTATION HYDRAULIC MODEL

BASELINE SCENARIO

**1% AEP
PEAK WATER LEVEL**

Scale 1:8000 @ A3

Date AUGUST 2025

