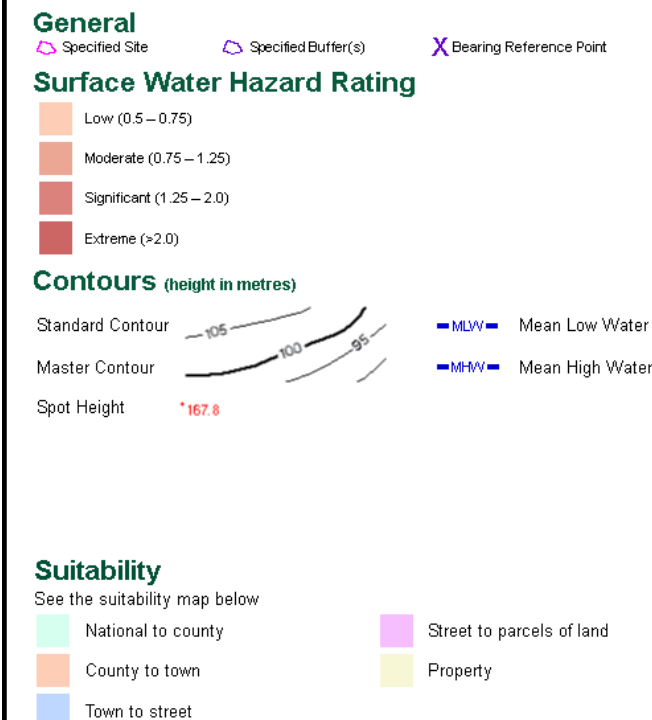
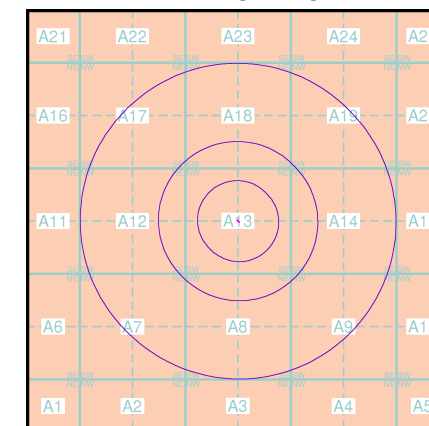


# FAIRHURST

## EA/NRW Surface Water 100 Year Return Hazard Rating Map (1:10,000)



## EA/NRW Suitability Map - Slice A



## Order Details

Order Number: 288060112\_1\_1  
Customer Ref: 146521  
National Grid Reference: 339010, 345480  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

## Site Details

Mytton Developments, 15, Dee Court, Bangor-on-Dee,  
WREXHAM, LL13 0AQ

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# FAIRHURST

## EA/NRW Surface Water 1000 Year Return Hazard Rating Map (1:10,000)

### General

Specified Site Specified Buffer(s) Bearing Reference Point

### Surface Water Hazard Rating

Low (0.5 – 0.75)  
Moderate (0.75 – 1.25)  
Significant (1.25 – 2.0)  
Extreme (>2.0)

### Contours (height in metres)

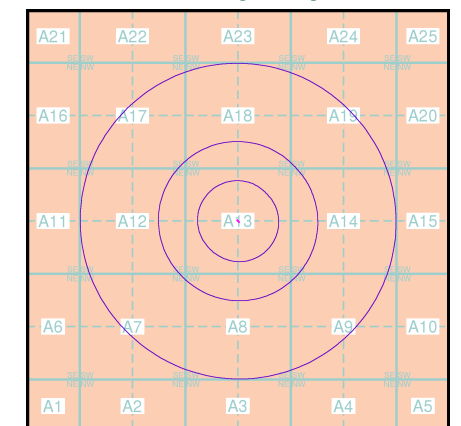
Standard Contour  
Master Contour  
Spot Height  
MLW Mean Low Water  
MHW Mean High Water  
167.8

### Suitability

See the suitability map below

National to county  
County to town  
Town to street  
Street to parcels of land  
Property

## EA/NRW Suitability Map - Slice A



### Order Details

Order Number: 288060112\_1\_1  
Customer Ref: 146521  
National Grid Reference: 339010, 345480  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

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# FAIRHURST

## OS Water Network Lines Map (1:10,000)

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

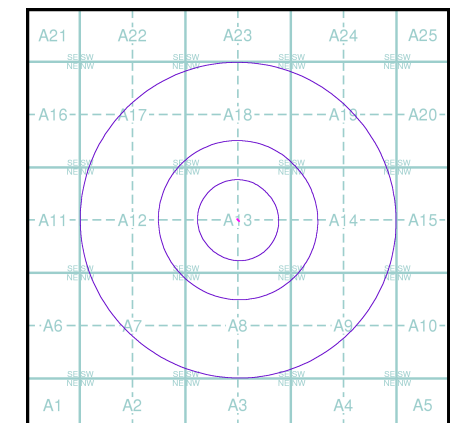
### OS Water Network Data

- |              |                         |
|--------------|-------------------------|
| Canal        | Drain                   |
| Reservoir    | Other                   |
| Foreshore    | Lake                    |
| Marsh        | Transfer                |
| Tidal River  | Lock Or Flight Of Locks |
| Inland River | Sea                     |
| Junction     | Source                  |
| Outlet       | Other                   |
| Pseudo       |                         |

### Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

## OS Water Network Map - Slice A



### Order Details

Order Number: 288060112\_1\_1  
Customer Ref: 146521  
National Grid Reference: 339010, 345480  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

Mytton Developments, 15, Dee Court, Bangor-on-Dee,  
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# FAIRHURST

## EA/NRW Historic Flood Map (1:10,000)

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

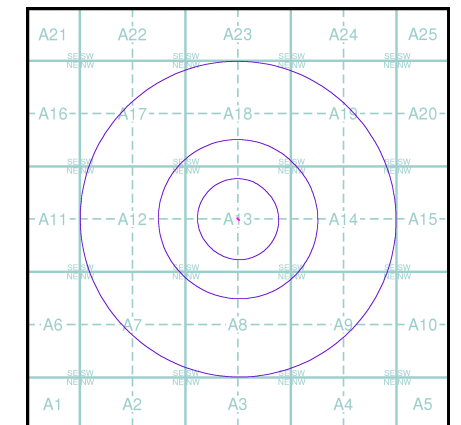
### Historic Flood Events Data

- |                                                |                                        |
|------------------------------------------------|----------------------------------------|
| Channel Capacity Exceeded (no raised defences) | Obstruction/Blockage - Culvert         |
| Channel Capacity Exceeded /Surface Water       | Obstruction/Blockage - Debris Screen   |
| Groundwater/High Water Table                   | Operational Failure/ Breach of Defence |
| Local Drainage/Surface Water                   | Other                                  |
| Mechanical Failure                             | Overtopping of Defences                |
| Obstruction/Blockage - Bridge                  | Surface Water                          |
| Obstruction/Blockage - Channel                 | Unknown                                |
| Historical Flood Liabilities                   |                                        |

### Contours (height in metres)

- Standard Contour 105 100 95
- Master Contour
- Spot Height \*167.8
- MLW Mean Low Water
- MHW Mean High Water

## EA/NRW Historic Flood Map - Slice A



### Order Details

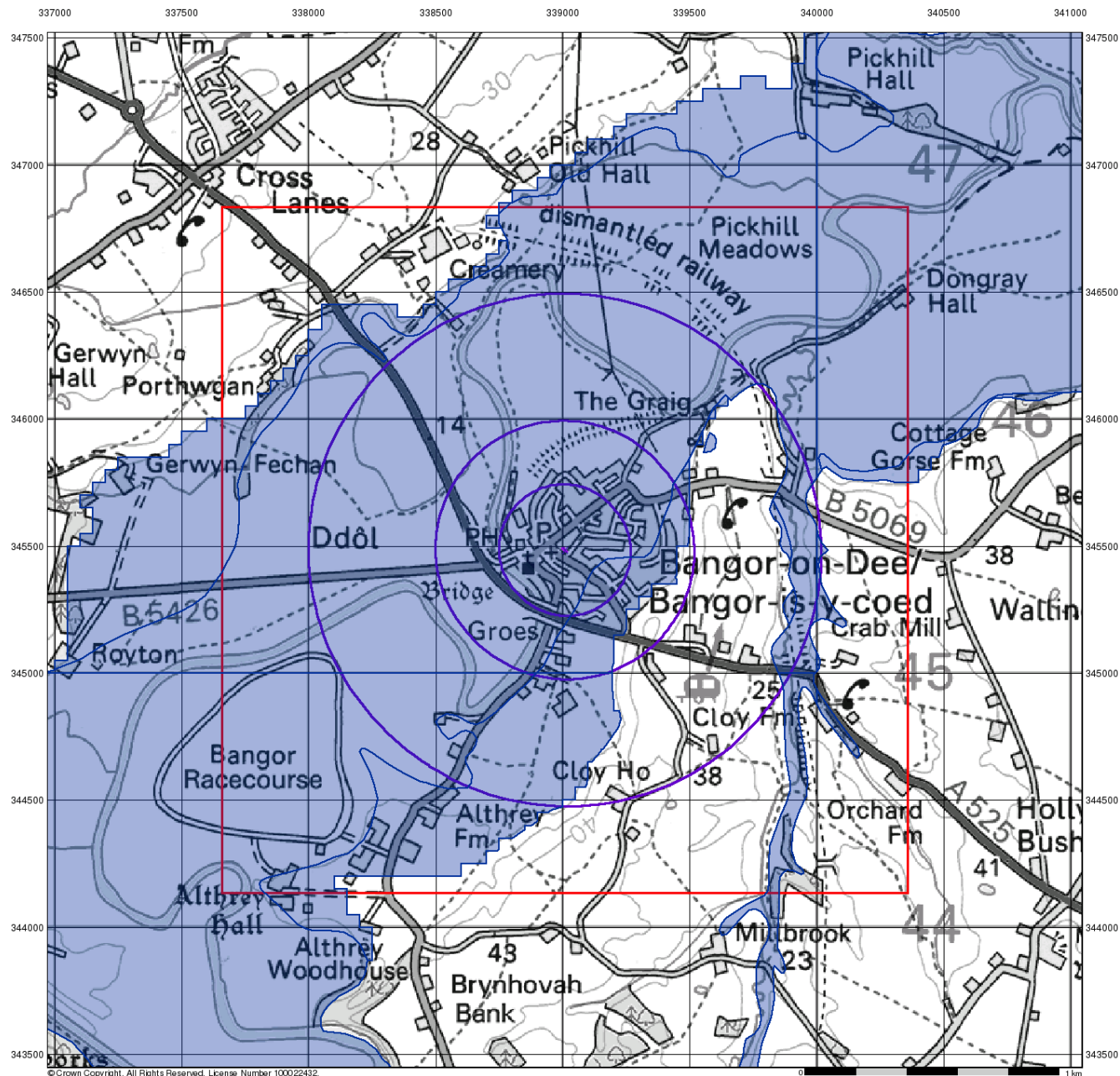
Order Number: 288060112\_1\_1  
Customer Ref: 146521  
National Grid Reference: 339010, 345480  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

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# FAIRHURST

## BGS Flood Data (1:50,000)

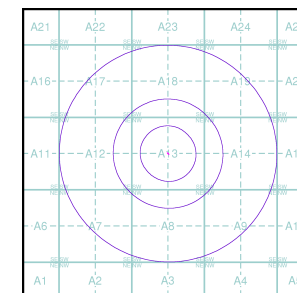
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### BGS Geological Indicators of Flooding

- Coastal
- Inland
- Bodies of Water

### BGS Flood Data Map - Slice A



### Order Details

Order Number: 288060112\_1\_1  
 Customer Ref: 146521  
 National Grid Reference: 339010, 345480  
 Slice: A  
 Site Area (Ha): 0.01  
 Search Buffer (m): 1000

### Site Details

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# FAIRHURST

## BGS Flood Data (1:50,000)

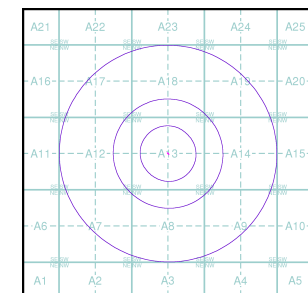
### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

### BGS Groundwater Flooding Susceptibility

-  Potential for Groundwater Flooding to Occur at Surface
-  Potential for Groundwater Flooding of Property Situated Below Ground Level
-  Limited Potential for Groundwater Flooding to Occur

### BGS Flood Data Map - Slice A



### Order Details

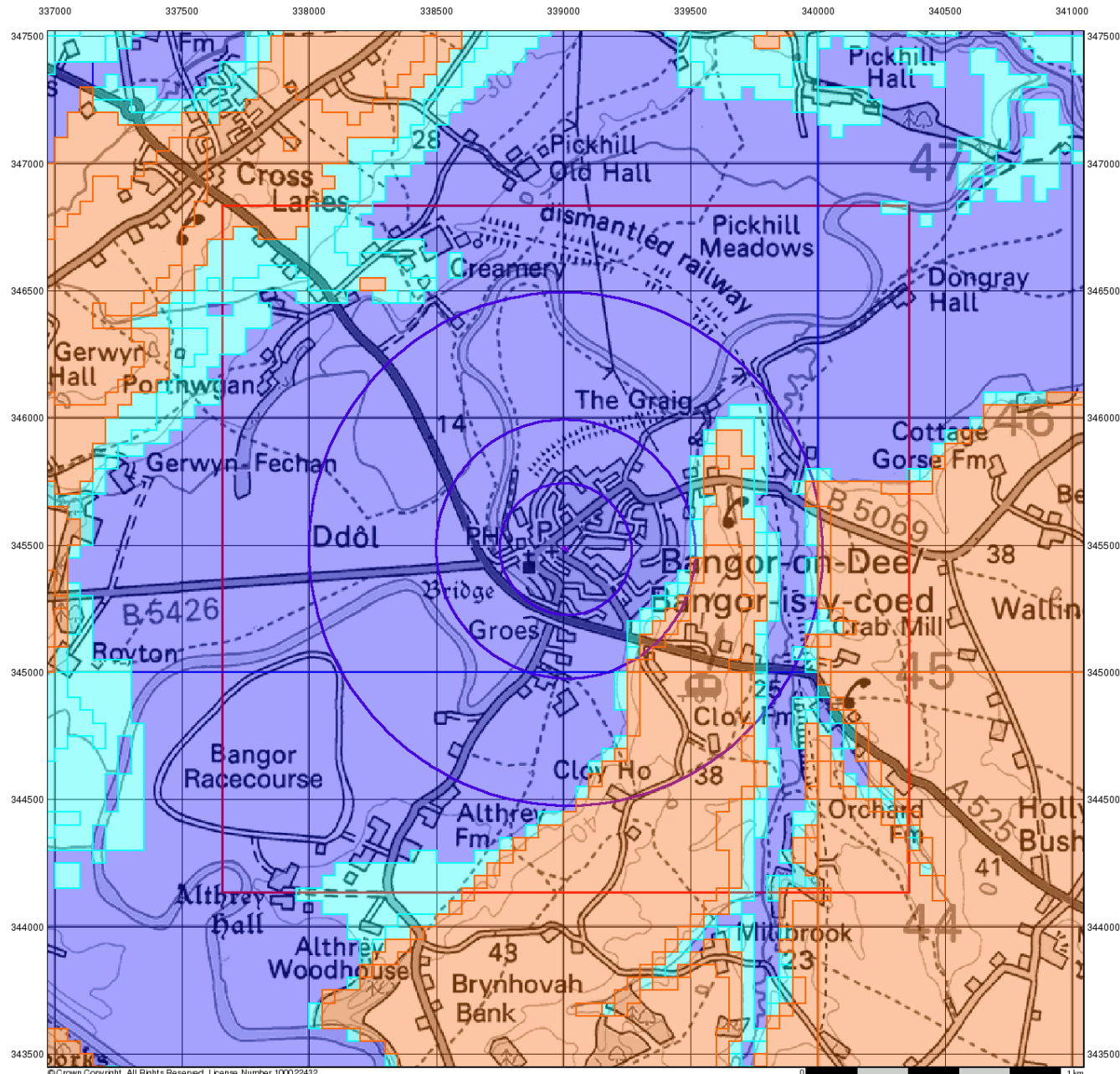
Order Number: 288060112\_1\_1  
 Customer Ref: 146521  
 National Grid Reference: 339010, 345480  
 Slice: A  
 Site Area (Ha): 0.01  
 Search Buffer (m): 1000

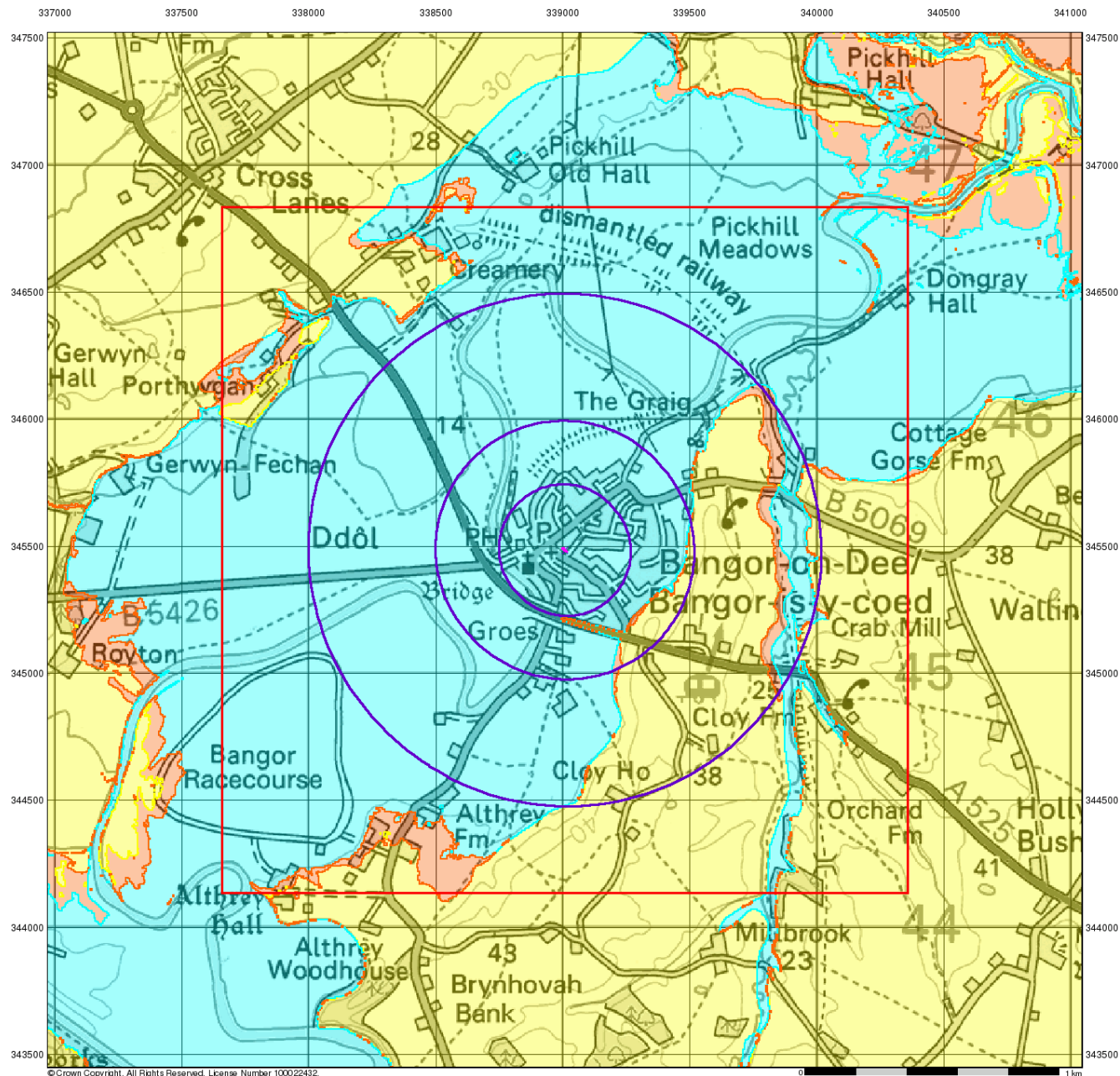
### Site Details

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# FAIRHURST

## GeoSmart Information Groundwater Flood Map (1:50,000)

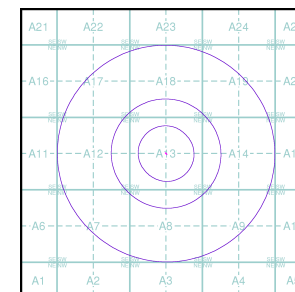
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

### GeoSmart Information Groundwater Flooding Risk

- High Risk
- Moderate Risk
- Low Risk
- Negligible Risk

### GeoSmart Information Groundwater Flood Map - Slice A



### Order Details

Order Number: 288060112\_1\_1  
 Customer Ref: 146521  
 National Grid Reference: 339010, 345480  
 Slice: A  
 Site Area (Ha): 0.01  
 Search Buffer (m): 1000

### Site Details

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# FAIRHURST

## EA/NRW RoFRS Data (1:50,000)

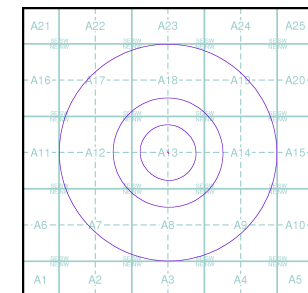
### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

### Risk of Flooding from Rivers and Sea (RoFRS)

-  High Risk
-  Medium Risk
-  Low Risk
-  Very Low Risk

### EA/NRW RoFRS Data Map - Slice A



### Order Details

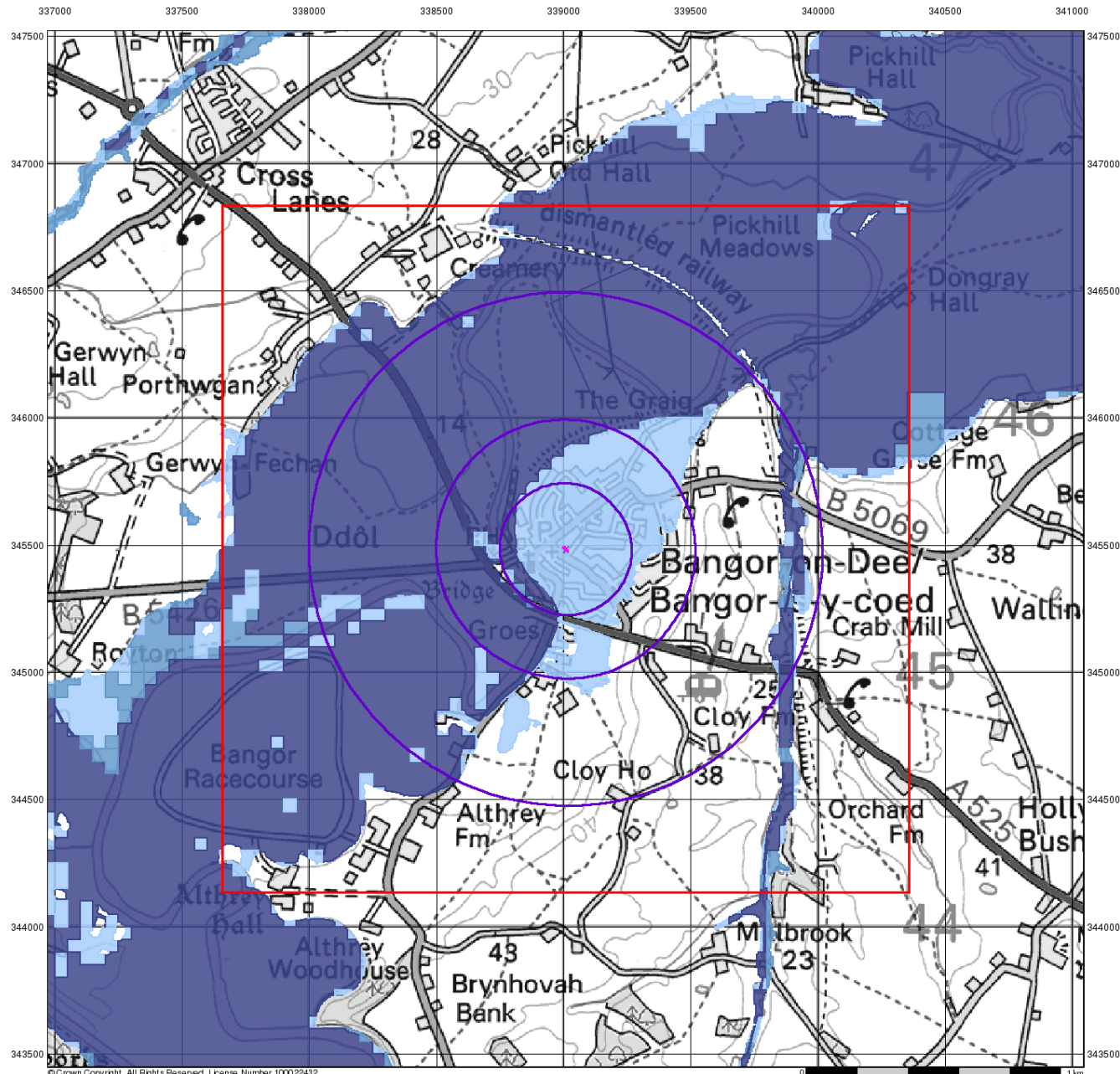
Order Number: 288060112\_1\_1  
 Customer Ref: 146521  
 National Grid Reference: 339010, 345480  
 Slice: A  
 Site Area (Ha): 0.01  
 Search Buffer (m): 1000

### Site Details

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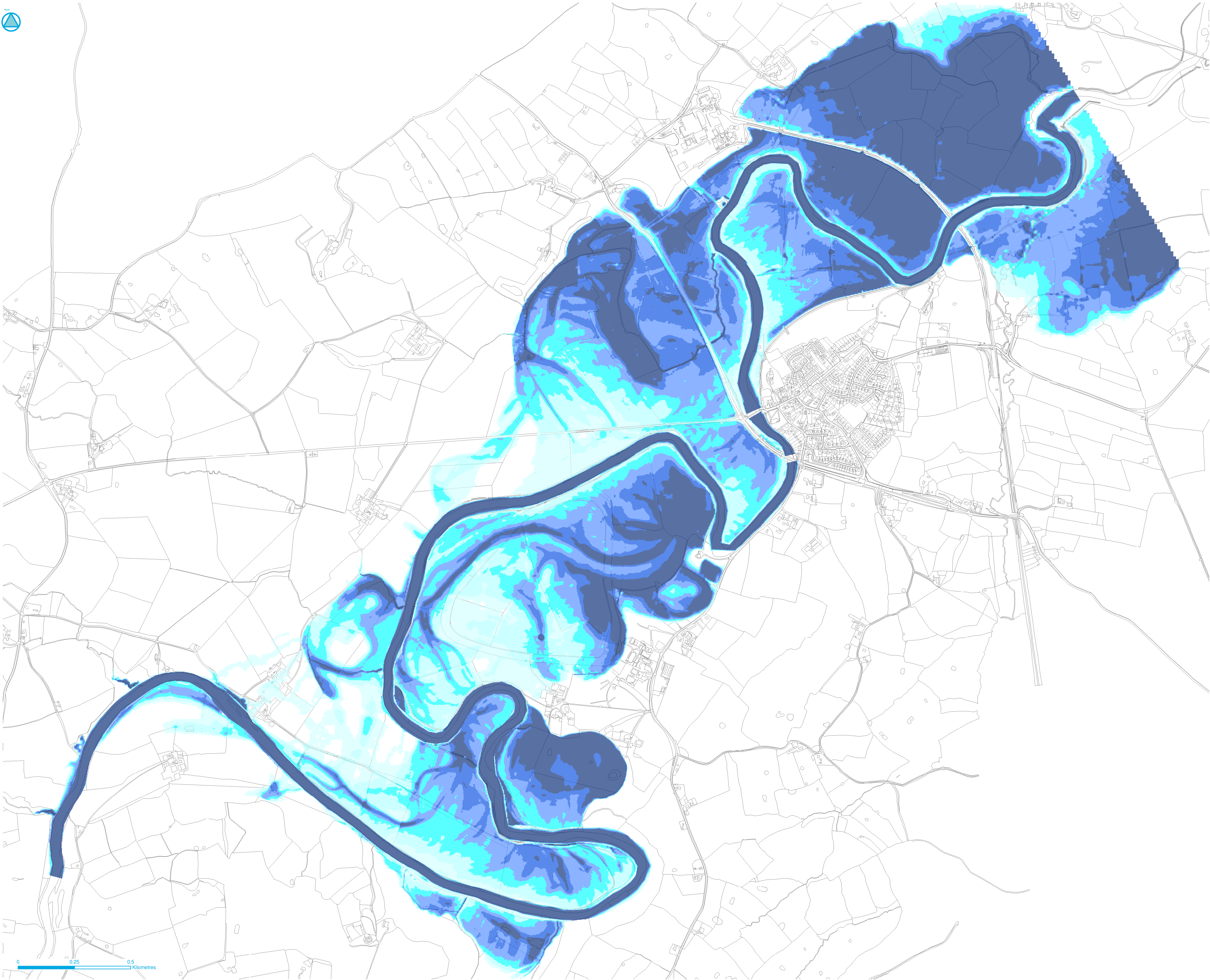
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## **APPENDIX D**

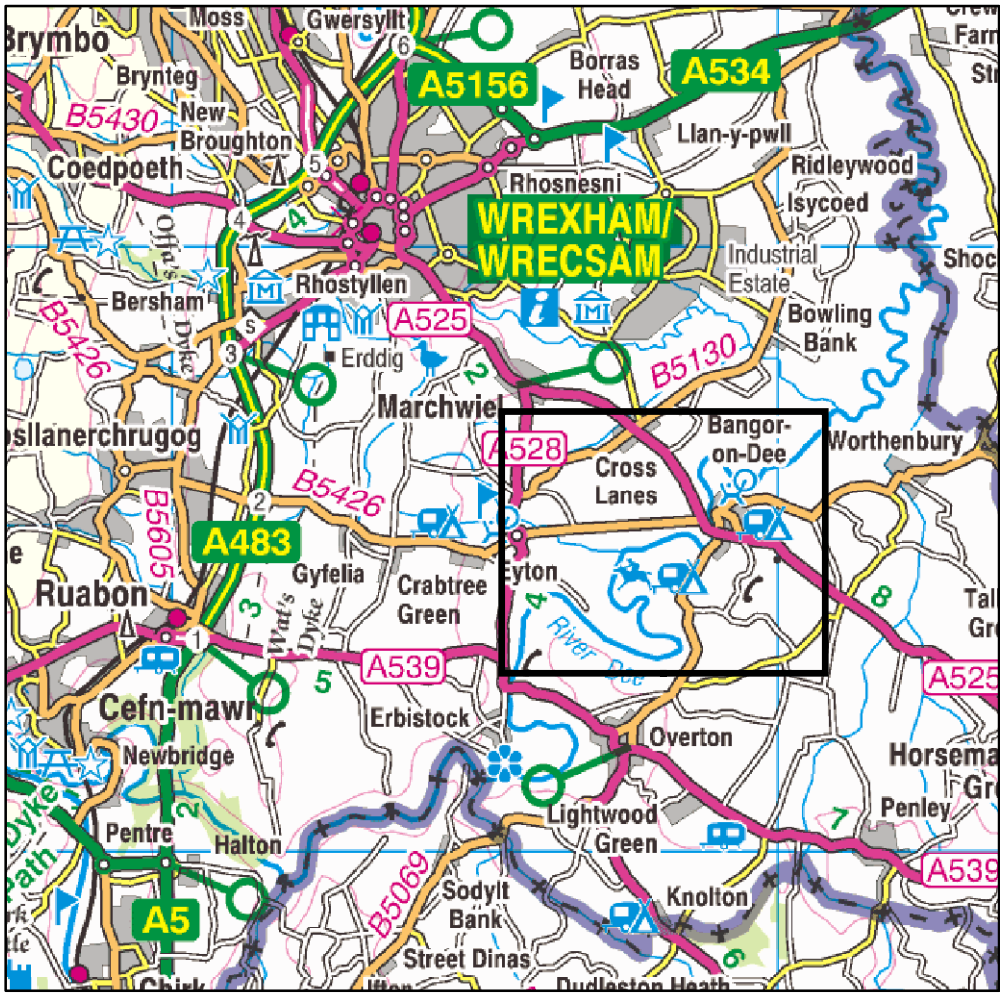
### **NRW Flood Model Extracts**



**User Notes**  
This plan has been produced in accordance with TAN 15 - development and flood risk. Because the information is indicative rather than specific, local planning authorities will nevertheless need to consult the Environment Agency on individual applications. Users should note that the floodplain extents were mapped at an appropriate scale for the study. Amendments will be required in future to account for information gathered subsequently e.g. changes in hydrological river response or observations following flood events.  
When in doubt the Environment Agency should be consulted.

**Technical Notes**  
It should be noted that certain locations not shown may be at risk from other sources (piped drain systems, water mains etc.) and from other watercourses not shown in this study. Flood levels have been derived from water levels predicted using a model representing 'typical' conditions. Channel roughness used in the model represents average conditions without any blockages and would not reflect the position if heavy weed growth or debris were allowed to build up in the channel. An area without a flood outline does not necessarily imply no flood risk.  
The Environment Agency should be consulted with queries in any case.

Key Plan



Predicted Peak Flood Depths

- 0 - 0.3m
- 0.3 - 0.6m
- 0.6 - 0.9m
- 0.9 - 1.2m
- 1.2 - 1.5m
- Above 1.5m



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for  
RIVER DEE AT BANGOR ON DEE  
FLOOD RISK MAPPING STUDY

1% AEP Event Defended Flood Depth

|                                     |                                          |       |          |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|------------------------------------------|-------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drawn by:                           | Anneka Lewis                             | Date: | May 2012 | This map is produced from the 1:10,000 scale Ordnance Survey Map by permission of Ordnance Survey on behalf of the Controller H.M.S.O. Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Environment Agency, 2011 Licence No. 100026280. |
| Checked by:                         | Krista Davies                            | Date: | May 2012 |                                                                                                                                                                                                                                                                                                               |
| Approved by:                        | Krista Davies                            | Date: | May 2012 |                                                                                                                                                                                                                                                                                                               |
| File Name:                          | ..ArcView\Projects\Flood Map - Depth.mxd |       |          |                                                                                                                                                                                                                                                                                                               |
| Drawing Number:                     |                                          |       | Status:  |                                                                                                                                                                                                                                                                                                               |
| 201185194 Bangor on Dee Flood Depth |                                          |       | Final    | Original @ A1                                                                                                                                                                                                                                                                                                 |