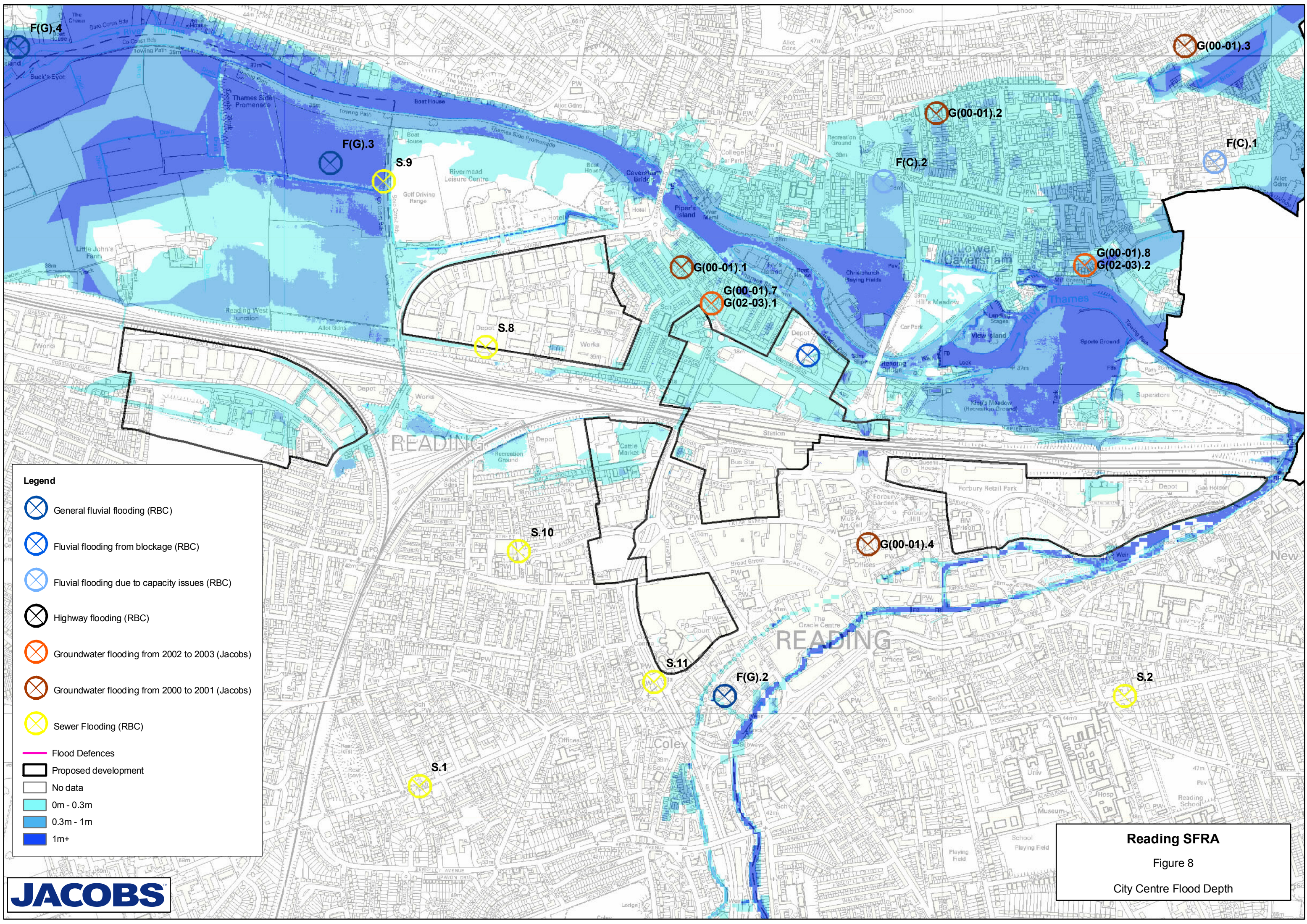
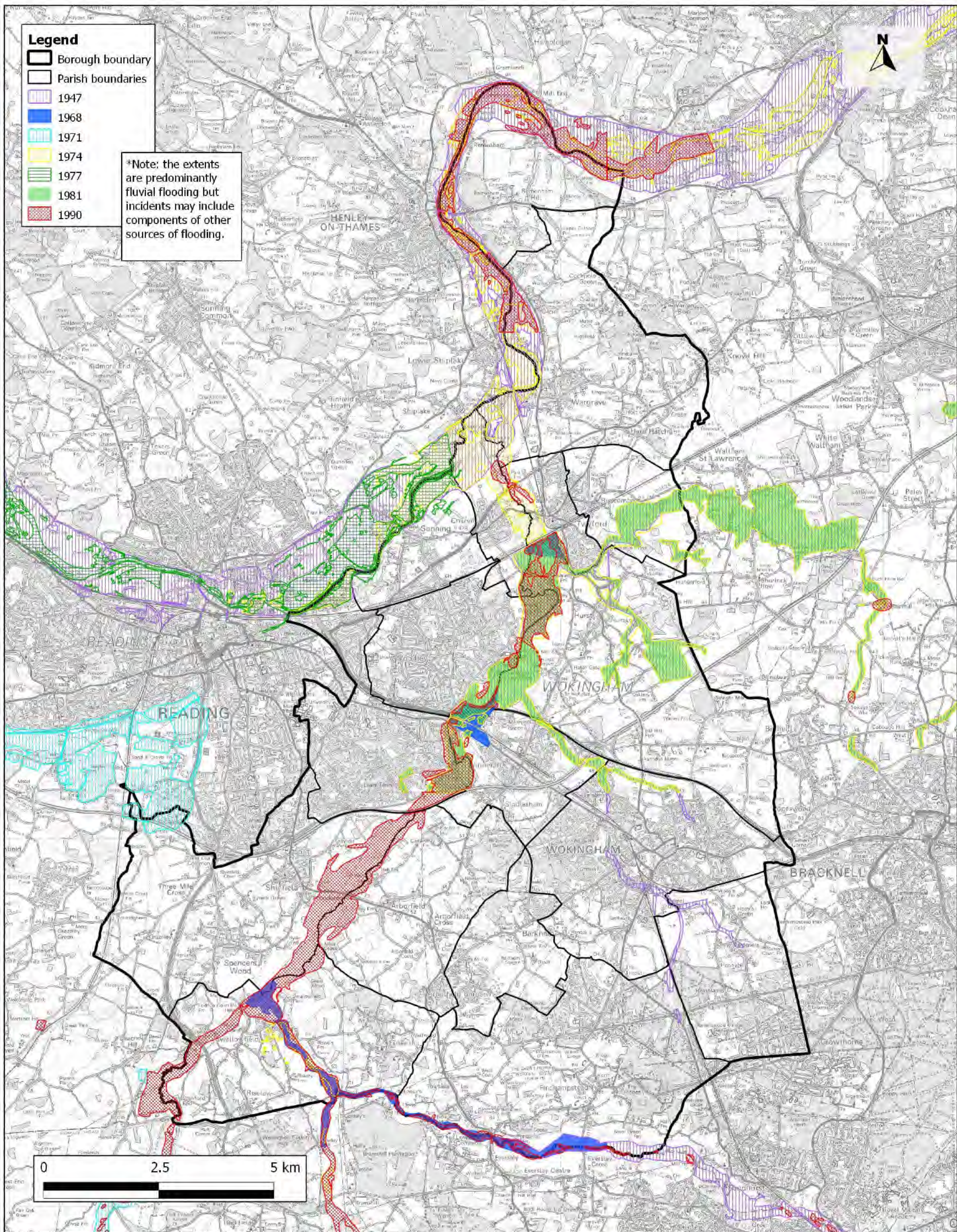




**Legend**

- General fluvial flooding (RBC)
- Fluvial flooding from blockage (RBC)
- Fluvial flooding due to capacity issues (RBC)
- Highway flooding (RBC)
- Groundwater flooding from 2002 to 2003 (Jacobs)
- Groundwater flooding from 2000 to 2001 (Jacobs)
- Sewer Flooding (RBC)
- Flood Defences
- Proposed development
- No data
- 0m - 0.3m
- 0.3m - 1m
- 1m+

Reading SFRA  
Figure 8  
City Centre Flood Depth



© Crown Copyright and database rights 2011 Ordnance Survey 100019592.  
 Flood map information is copyright of the Environment Agency. © Environment Agency copyright and/or database rights 2010. All rights reserved.  
 Environment Agency, 100026380, 2010.  
 For reference purposes only. No further copies may be made.

## Wokingham Strategic Flood Risk Assessment

### Map 6a-1: Overview of Historical Fluvial Flooding (1947-1990)

Drawn by: AS  
 Checked by: BV

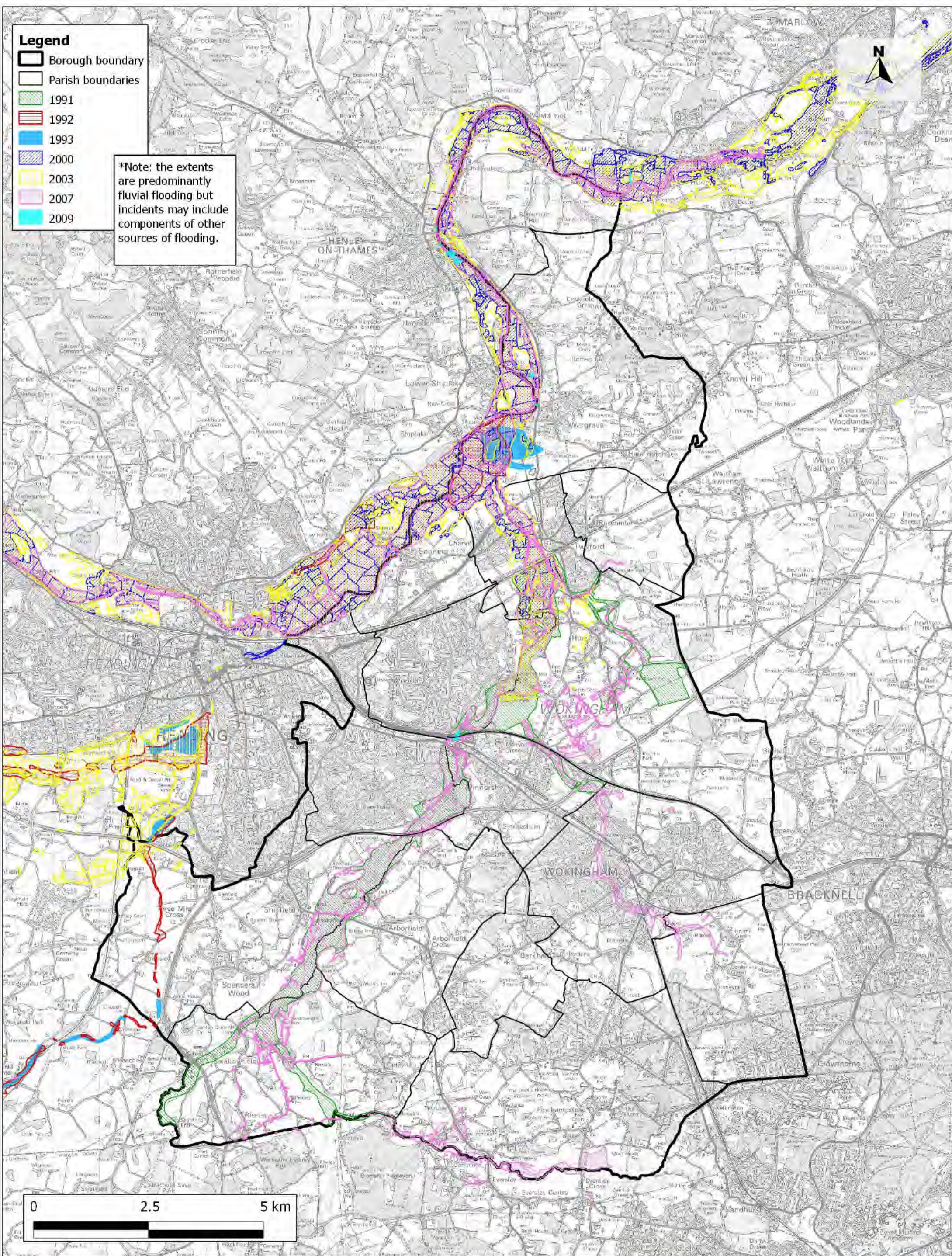
Revision: 3  
 Date: 23/05/11



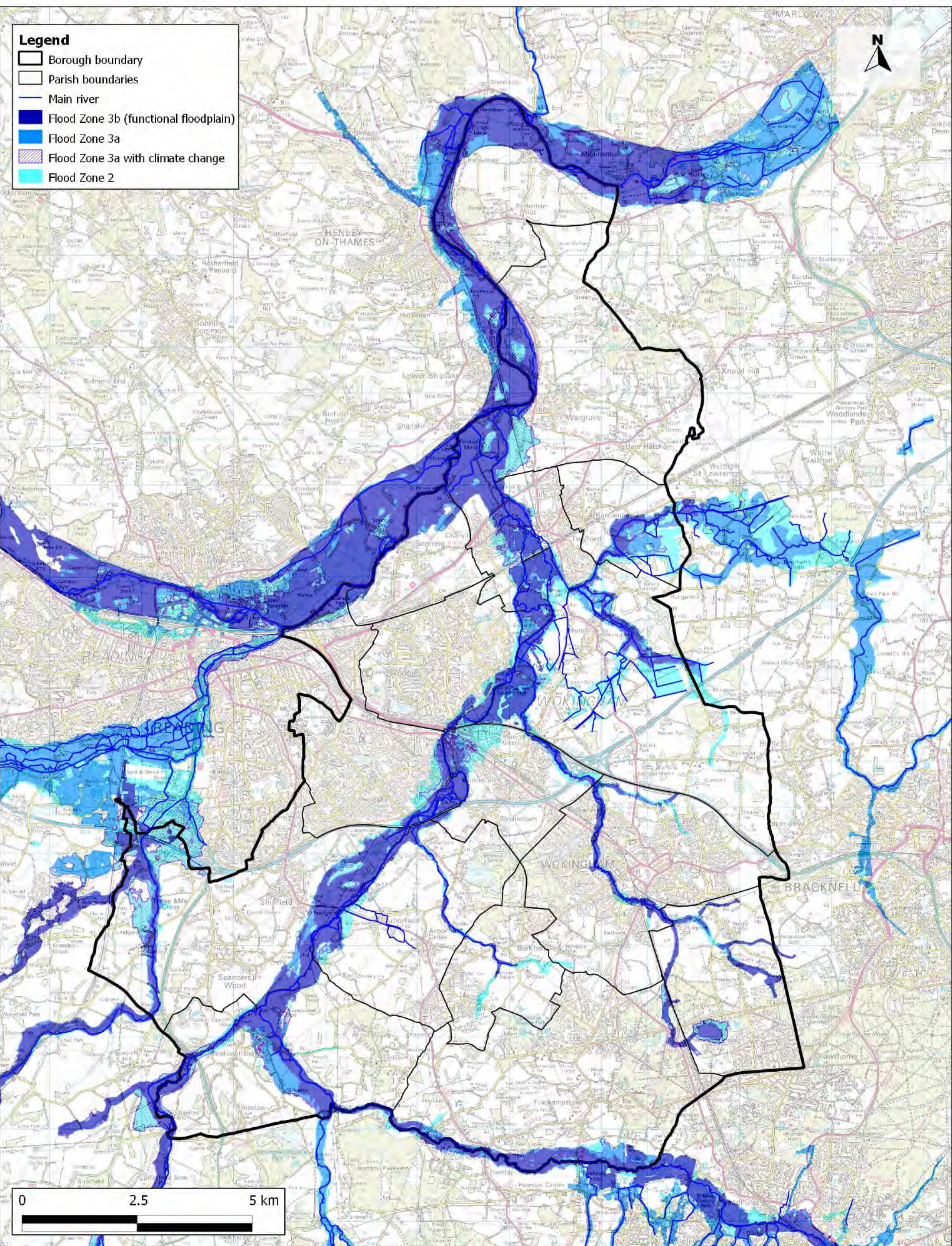
Wokingham Borough Council  
 Civic Offices  
 Shute End  
 Wokingham RG40 1BN



Halcrow Group Ltd  
 Griffin House, 135 High Street  
 Crawley  
 West Sussex RH10 1DQ  
[www.halcrow.com](http://www.halcrow.com)



© Crown Copyright and database rights 2011 Ordnance Survey 100019592.  
Flood map information is copyright of the Environment Agency. © Environment Agency copyright and/or database rights 2010. All rights reserved.  
Environment Agency, 100026380, 2010.  
For reference purposes only. No further copies may be made.



© Crown Copyright and database rights 2011 Ordnance Survey 100019592.  
Flood map information is copyright of the Environment Agency. © Environment Agency copyright and/or database rights 2010. All rights reserved.  
Environment Agency, 100026380, 2010.  
For reference purposes only. No further copies may be made.

## Wokingham Strategic Flood Risk Assessment

Map 6c: Overview of fluvial flood zones (April 2011)

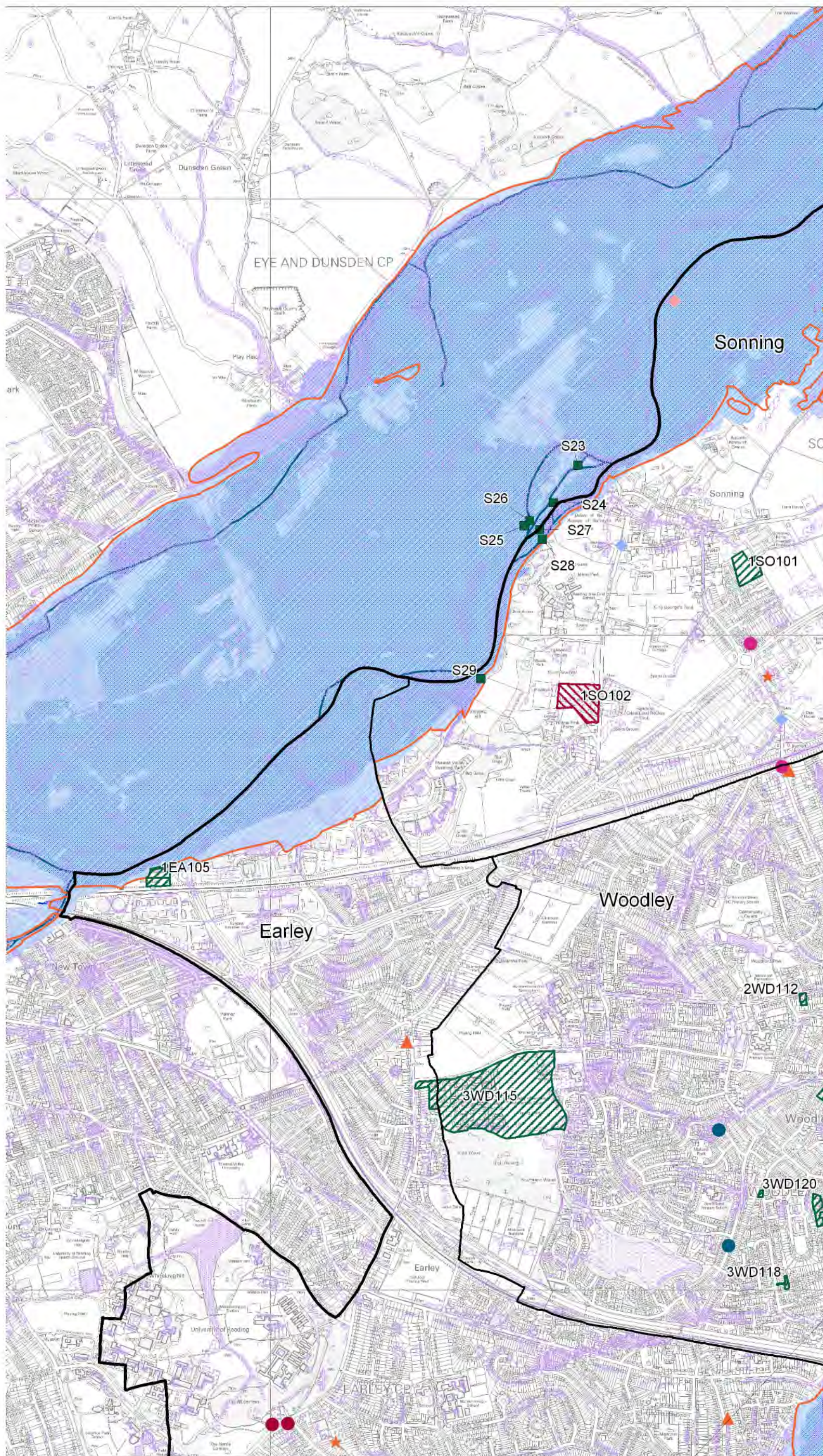
Drawn by: AS  
Checked by: BV  
Revision: 2  
Date: 23/05/11



Wokingham Borough Council  
Civic Offices  
Shute End  
Wokingham RG40 1BN



Halcrow Group Ltd  
Griffin House, 135 High Street  
Crawley  
West Sussex RH10 1DQ  
www.halcrow.com



#### KEY:

- Borough Boundary
- Parish Boundaries
- Confirmed LDF Sites
- Unconfirmed LDF Sites

- Strategic Development Location
- Flood Storage Area
- Balancing Ponds
- Flood Defences
- Structures

#### Historic Flooding

- Historical Fluvial (Mainly) Extents
- Groundwater Incidents

#### Historical Flooding

1993 Flooding Incidents:

- Foul
- Highway Drainage
- Land Drainage
- Restricted Toilet Use
- Surface Drainage

#### Parishes Flooding Incidents

- Main River
- Ordinary Watercourse
- Surface Runoff

#### 2007 Flooding Incidents

- House or Garage Flooding
- Swallowfield Historical Flood Paths

#### Surface Water Modelling

- 200 Year Shallow Extents
- 200 Year Deep Extents

#### Fluvial Flood Zones

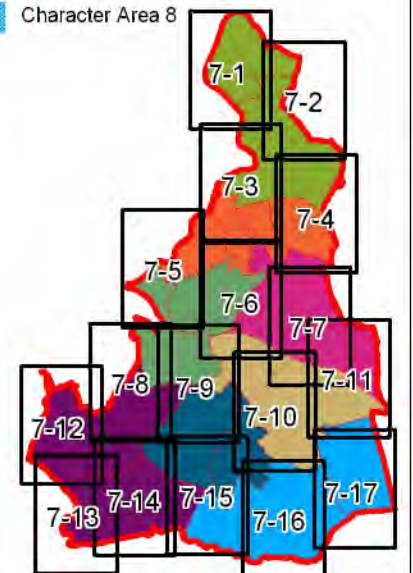
- Main River Centre Lines
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 3a With Climate Change
- Flood Zone 2

Note1: Incidents with ID labels are linked to individual descriptions in tables in the SFRA report.

Note2: Spot flooding incidents show approximate location. This is how most incidents were reported (e.g. nearest street).

#### KEY:

- Character Area 1
- Character Area 2
- Character Area 3
- Character Area 4
- Character Area 5
- Character Area 6
- Character Area 7
- Character Area 8



## Appendix E - PBA Drawings

### MapInfo Flood Extent Figures

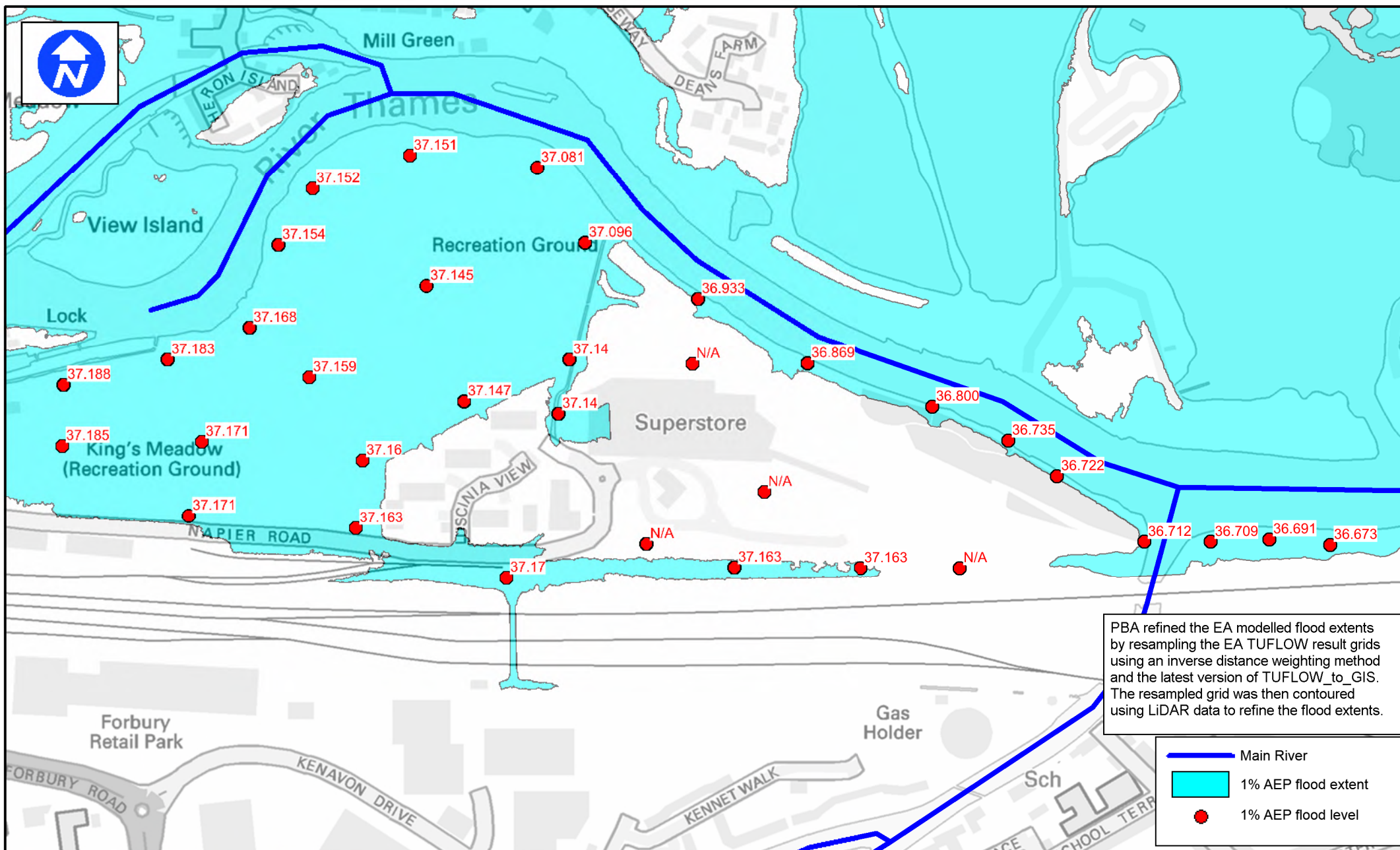
- **PBA Drawing 28791\_MI009 – modelled 1 in 100 (1%) annual probability flood extent**
- **PBA Drawing 28791\_MI010 – modelled 1 in 100 annual probability plus 20% adjustment for climate change flood extent**
- **PBA Drawing 28791\_MI011 – modelled 1 in 1000 (0.1%) annual probability flood extent**
- **PBA Drawing 28791\_MI012 – modelled 1 in 100 annual probability +35% and +70% climate change allowance flood extents**
- **PBA Drawing 28791\_MI015 – modelled 1 in 100 annual probability +35% climate change allowance – Proposed MRT alignment and floodplain compensation impacts**
- **PBA Drawing 28791\_MI016 – modelled 1 in 100 annual probability +70% climate change allowance – Proposed MRT alignment and floodplain compensation impacts**
- **PBA Drawing 28791\_MI018 – modelled 1 in 100 annual probability – Proposed MRT alignment and floodplain compensation impacts**

### PBA Flood Risk Drawings

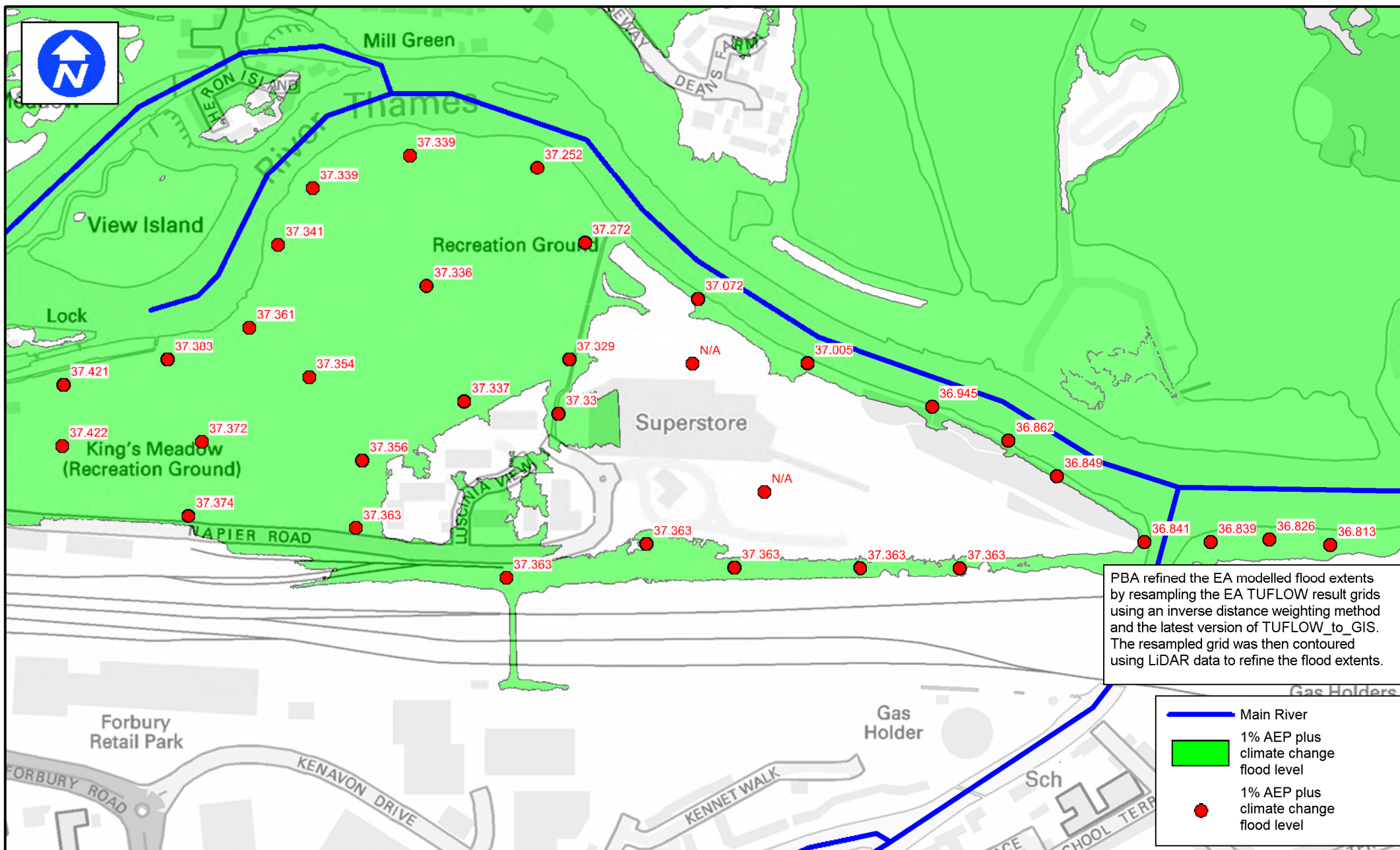
- **PBA Drawing 28791/4001/004 – Modelled Flood Events**
- **PBA Drawing 28791/4001/010 – PBA Modelled +35% and +70% Climate Change Flood Events**
- **PBA Drawing 28791/4001/011 – Flood Storage Analysis – East Landing**
- **PBA Drawing 28791/4001/012 – Flood Storage Analysis – West Landing**

### PBA Surface Water Drainage Strategy

- **PBA Drawing 28791/2009/CIV/008 – Proposed Surface Water Drainage Strategy**



PBA refined the EA modelled flood extents by resampling the EA TUFLOW result grids using an inverse distance weighting method and the latest version of TUFLOW\_to\_GIS. The resampled grid was then contoured using LiDAR data to refine the flood extents.



PBA refined the EA modelled flood extents by resampling the EA TUFLOW result grids using an inverse distance weighting method and the latest version of TUFLOW\_to\_GIS. The resampled grid was then contoured using LiDAR data to refine the flood extents.

Main River

1% AEP plus climate change flood level

1% AEP plus climate change flood level

www.peterbrett.com

Forbury Retail Park

**Reading**  
Borough Council  
Working better with you

### East Reading MRT

Environment Agency 1% AEP plus climate change flood levels with PBA refined flood extents

Date: 13/01/16

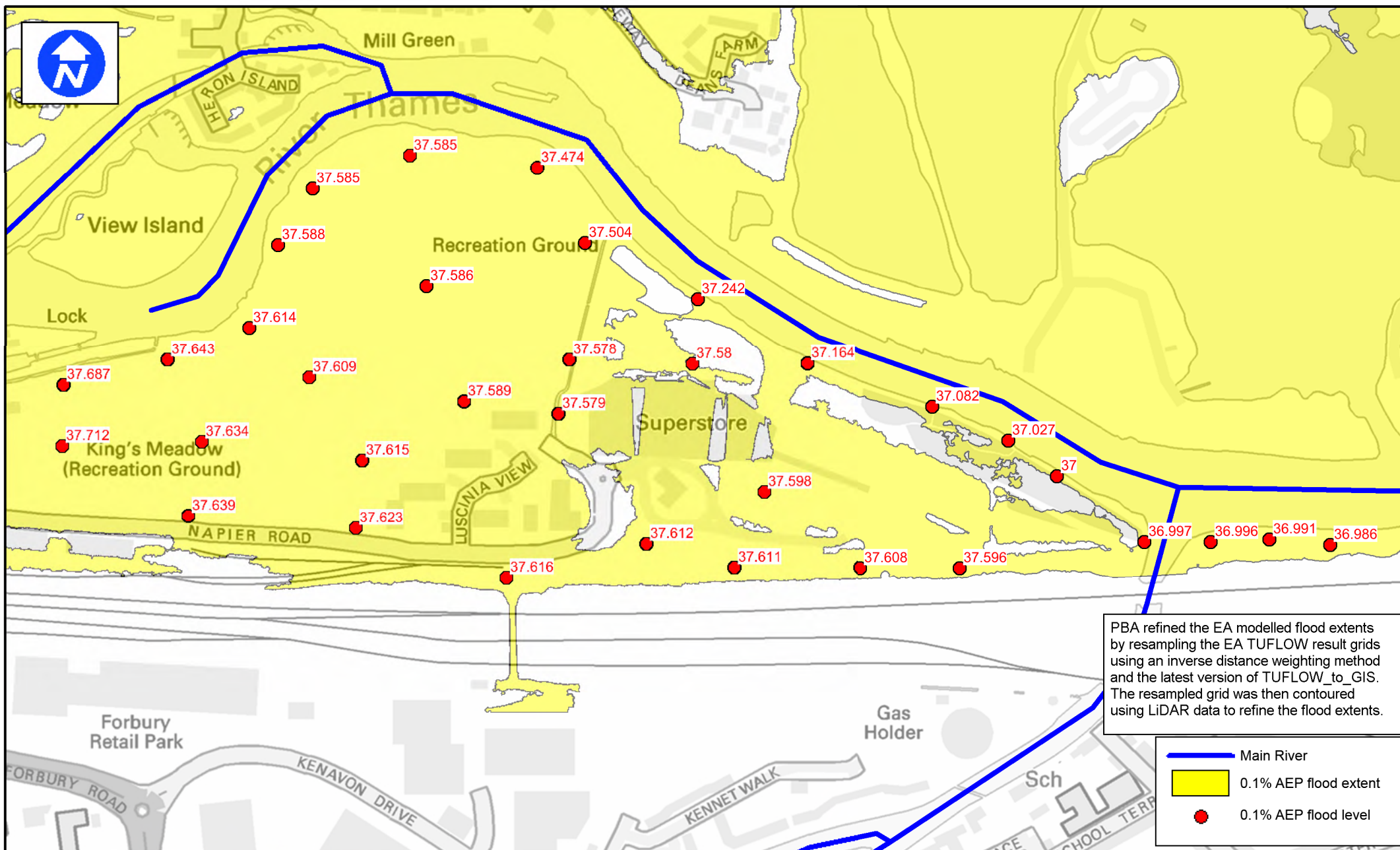
Scale: NTS

Drawn By: SB Checked By: RF

Rev: -

Figure Number

**28791\_MI010**



PBA refined the EA modelled flood extents by resampling the EA TUFLOW result grids using an inverse distance weighting method and the latest version of TUFLOW\_to\_GIS. The resampled grid was then contoured using LiDAR data to refine the flood extents.

Main River

0.1% AEP flood extent

0.1% AEP flood level