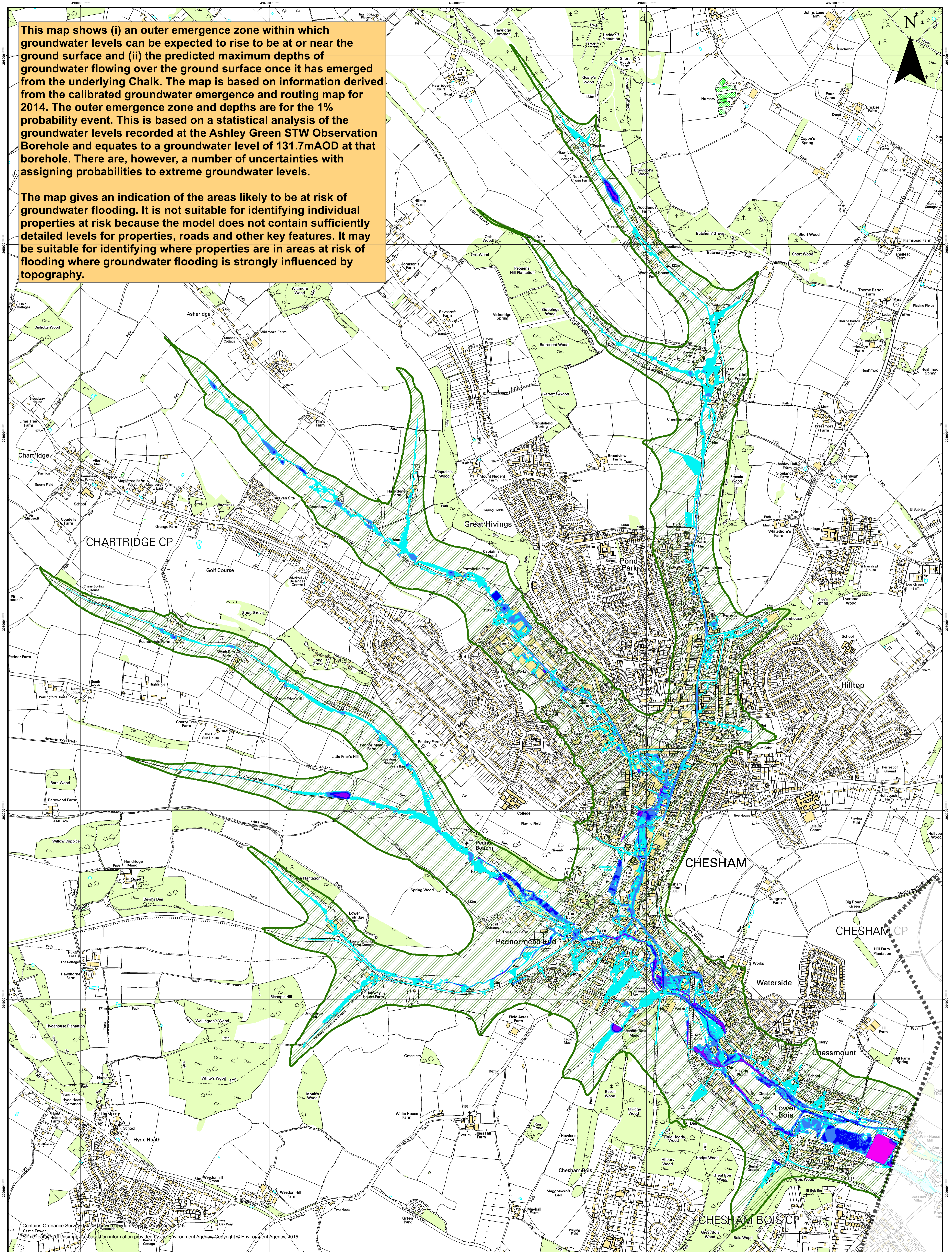
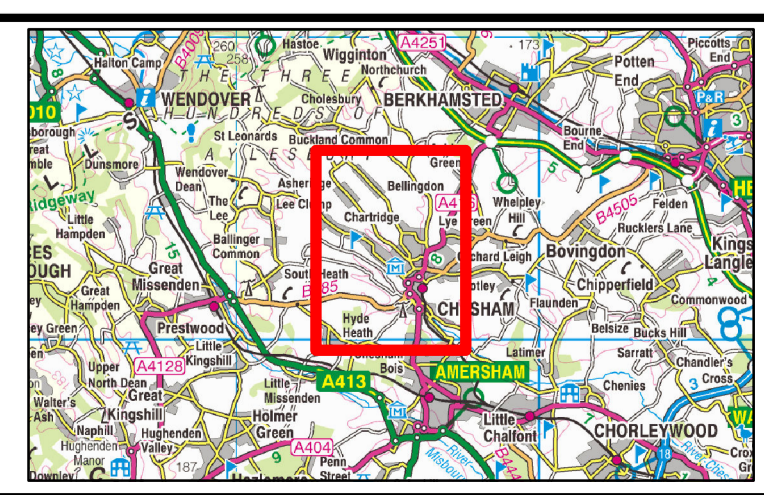


This map shows (i) an outer emergence zone within which groundwater levels can be expected to rise to be at or near the ground surface and (ii) the predicted maximum depths of groundwater flowing over the ground surface once it has emerged from the underlying Chalk. The map is based on information derived from the calibrated groundwater emergence and routing map for 2014. The outer emergence zone and depths are for the 1% probability event. This is based on a statistical analysis of the groundwater levels recorded at the Ashley Green STW Observation Borehole and equates to a groundwater level of 131.7mAOD at that borehole. There are, however, a number of uncertainties with assigning probabilities to extreme groundwater levels.

The map gives an indication of the areas likely to be at risk of groundwater flooding. It is not suitable for identifying individual properties at risk because the model does not contain sufficiently detailed levels for properties, roads and other key features. It may be suitable for identifying where properties are in areas at risk of flooding where groundwater flooding is strongly influenced by topography.



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**Legend**

Maximum Groundwater Flood Depth (m)  
3.3% (1 in 30) AEP Event (131.7mAOD @ Ashley Green STW)

- 0.0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- >1.0

3.3% AEP Zone of Groundwater Emergence

Drawing Title  
**Groundwater Emergence and Routing Map (Chesham)**

Drawing Number  
**B1279843 / 3.3% AEP Map Based on 2014 Calibration**

0 0.25 0.5 1 Kilometres

**Improving Groundwater Flood Risk Management**

**JACOBS**  
1180 Eskdale Road, Wincoburn,  
Wokingham, RG41 5TU

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Approved ARW Mar 2015

BIRMINGHAM COUNTY COUNCIL