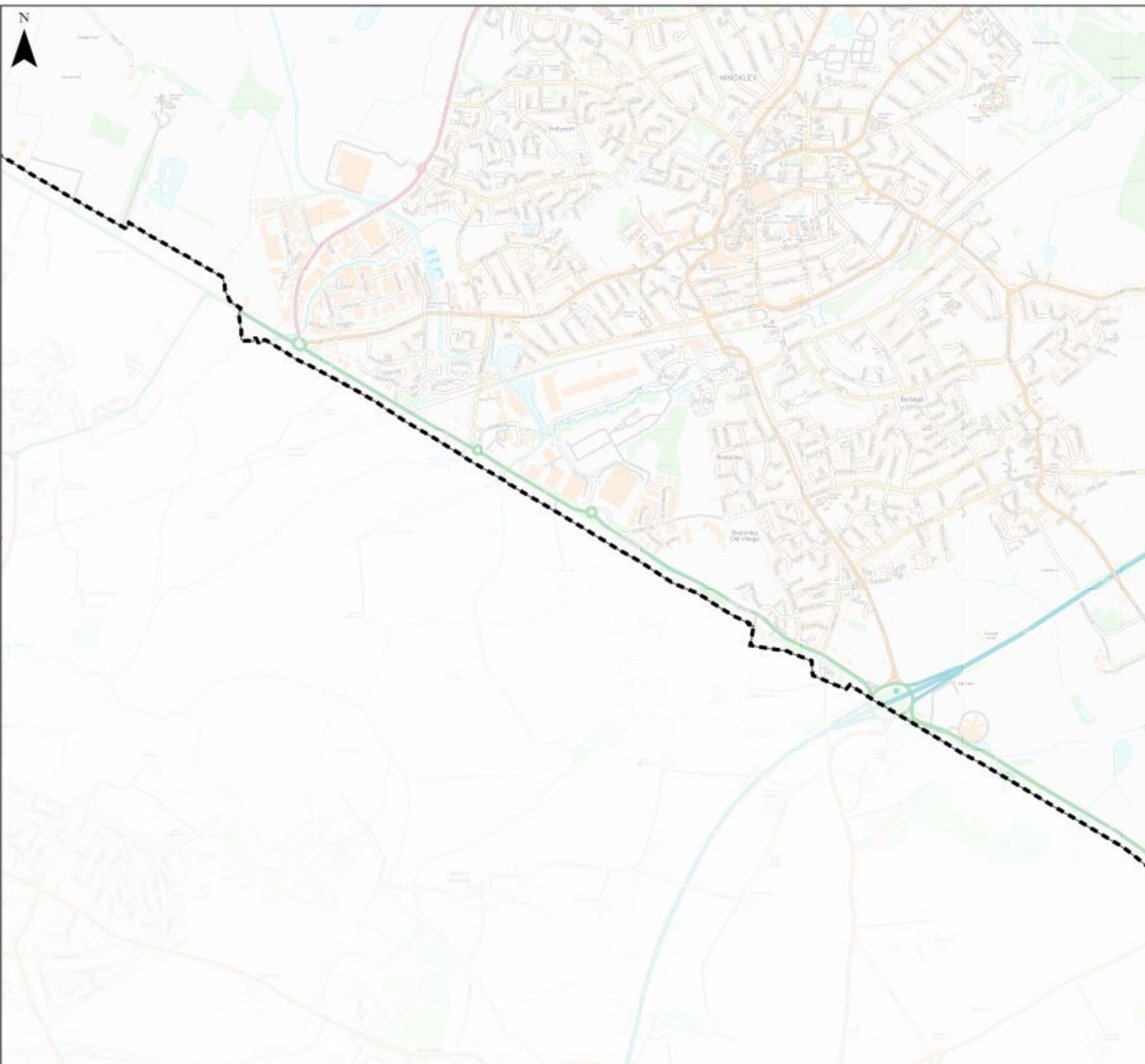
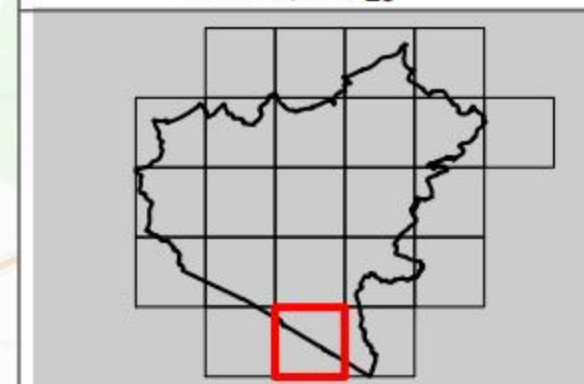


APPENDIX G – SFRA FLOOD RISK MAPPING [EXTRACTED JANUARY 2023]



HINKLEY AND BOSWORTH BOROUGH LEVEL 1 STRATEGIC FLOOD RISK ASSESSMENT

APPENDIX A: GEOPDF FLOOD RISK MAPPING INDEX GRID: E3



**Note: All layers are turned off by default.
Click the box next to the layer of interest to**

Authority Information

☒ Council Boundary

☒ Main Rivers

☒ Detailed River Network

Flood Zones

☒ Flood Zone 3b

☒ Indicative Flood Zone 3b

☒ Flood Zone 3a

☒ Flood Zone 2

Surface Water

☒ RoFfSW 3.3% AEP

☒ RoFfSW 1% AEP

☒ RoFfSW 0.1% AEP

Emergency Planning

☒ Flood Warning Areas

☒ Flood Alert Areas

Climate Change

☒ Climate Change Central

☒ Climate Change Higher Central

☒ Climate Change Upper

☒ Indicative Flood Zone 2

Areas Susceptible to Groundwater Flooding

☒ $\geq 75\%$

☒ $\geq 50\% < 75\%$

☒ $\geq 25\% < 50\%$

☒ $< 25\%$

Historical Flooding

☒ Historic Flooding

Defences

☒ demountable defence

☒ embankment

☒ wall

0 0.35 0.7 1.4 Km

Contains Environment Agency information © Environment Agency and/or database right

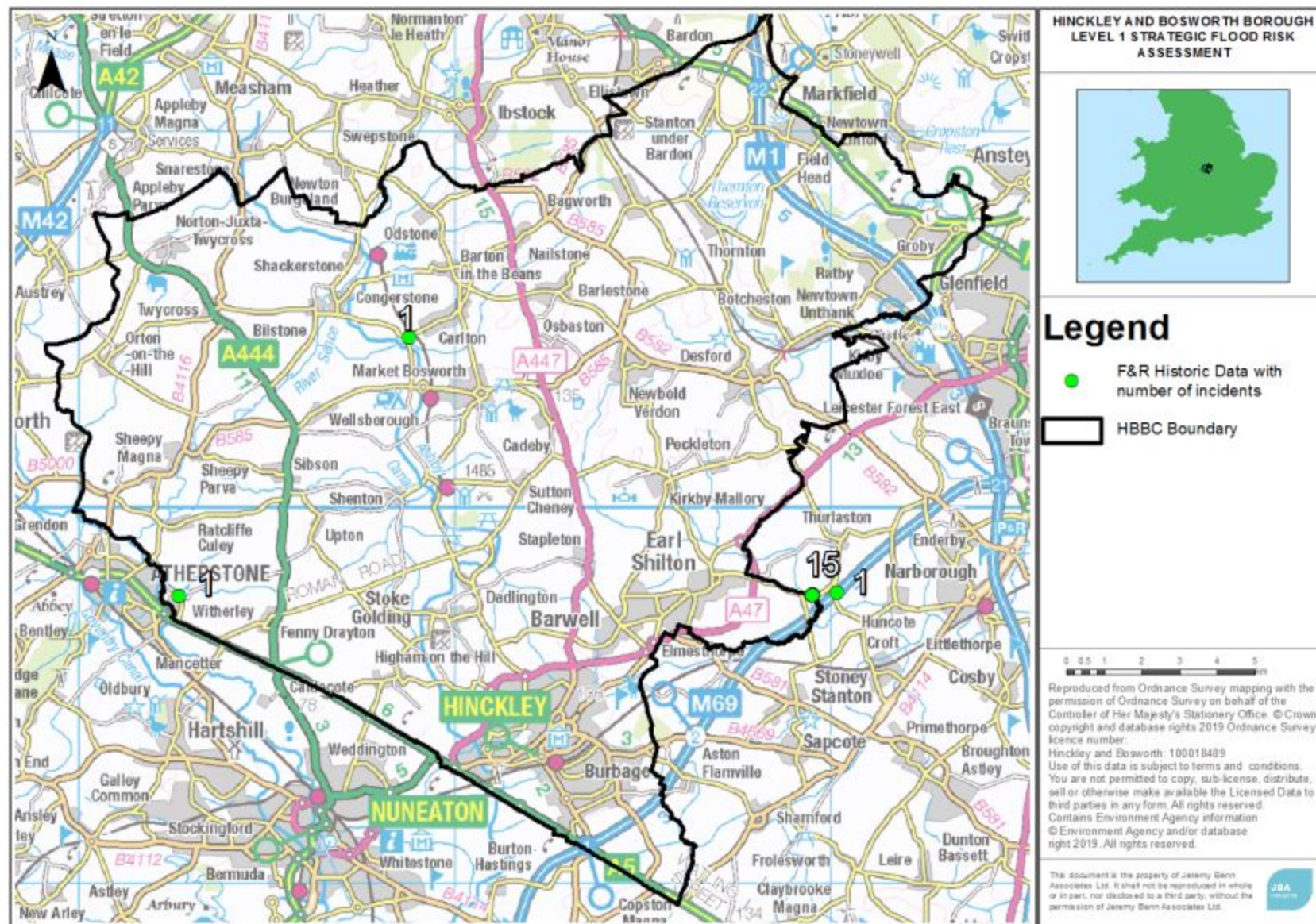
Contains OS data © Crown copyright and database right 2019

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APPENDIX H – SFRA FLOOD INCIDENT DATA [EXTRACTED JANUARY 2023]

Figure 5-1: Map of Leicestershire Fire and Rescue Service's flooding incident data for Hinckley and Bosworth borough



APPENDIX I – GREENFIELD RUNOFF RATE CALCULATIONS

[Print](#)[Close Report](#)

Greenfield runoff rate estimation for sites

www.ukstds.com | Greenfield runoff tool

Calculated by:

Site name:

Site location:

Site Details

Latitude:

Longitude:

Reference:

Date:

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance "Rainfall runoff management for developments", SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Runoff estimation approach

Site characteristics

Total site area (ha):

Methodology

Q_{BAR} estimation method:

SPR estimation method:

Soil characteristics

Default

Edited

SOIL type:

HOST class:

SPR/SPRHOST:

Hydrological characteristics

Default

Edited

SAAR (mm):

Hydrological region:

Growth curve factor 1 year:

Growth curve factor 30 years:

Growth curve factor 100 years:

Growth curve factor 200 years:

Notes

(1) Is Q_{BAR} < 2.0 l/s/ha?

When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

(2) Are flow rates < 5.0 l/s?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(3) Is SPR/SPRHOST ≤ 0.3?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

Greenfield runoff rates

Default

Edited

Q_{BAR} (l/s):

1 in 1 year (l/s):

1 in 30 years (l/s):

1 in 100 year (l/s):

1 in 200 years (l/s):

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement , which can both be found at www.uksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.

APPENDIX J – ENGINEERING DRAWINGS