Annex C – Flood Risk Mapping

Flood map for planning

Your reference	Location (easting/northing)	Created
Sunnica	**565810/270478**	**11 Dec 2019 12:09**

Your selected location is in flood zone 3, an area with a high probability of flooding.

This means:

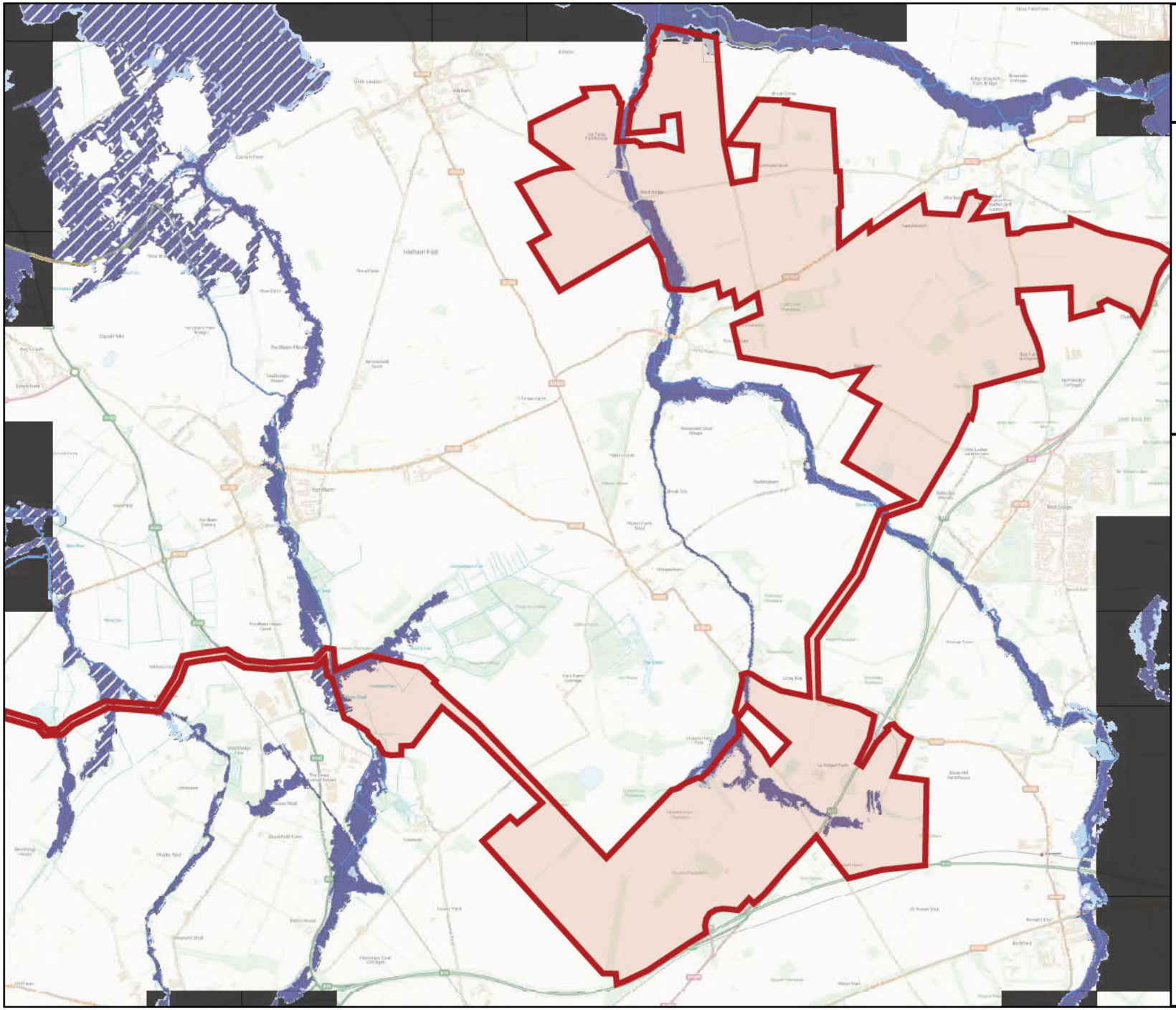
- you must complete a flood risk assessment for development in this area
- you should follow the Environment Agency's standing advice for carrying out a flood risk assessment [redacted]

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

The Open Government Licence sets out the terms and conditions for using government data. [redacted]



Environment Agency

Flood map for planning

Your reference
Sunnica

Location (easting/northing)
565810/270478

Scale
1:50000

Created
11 Dec 2019 12:09

- Selected area
- Flood zone 3
- Flood zone 3: areas benefitting from flood defences
- Flood zone 2
- Flood zone 1
- Flood defence
- Main river
- Flood storage area

0 500 1000 1500m

Flood risk from rivers or the sea

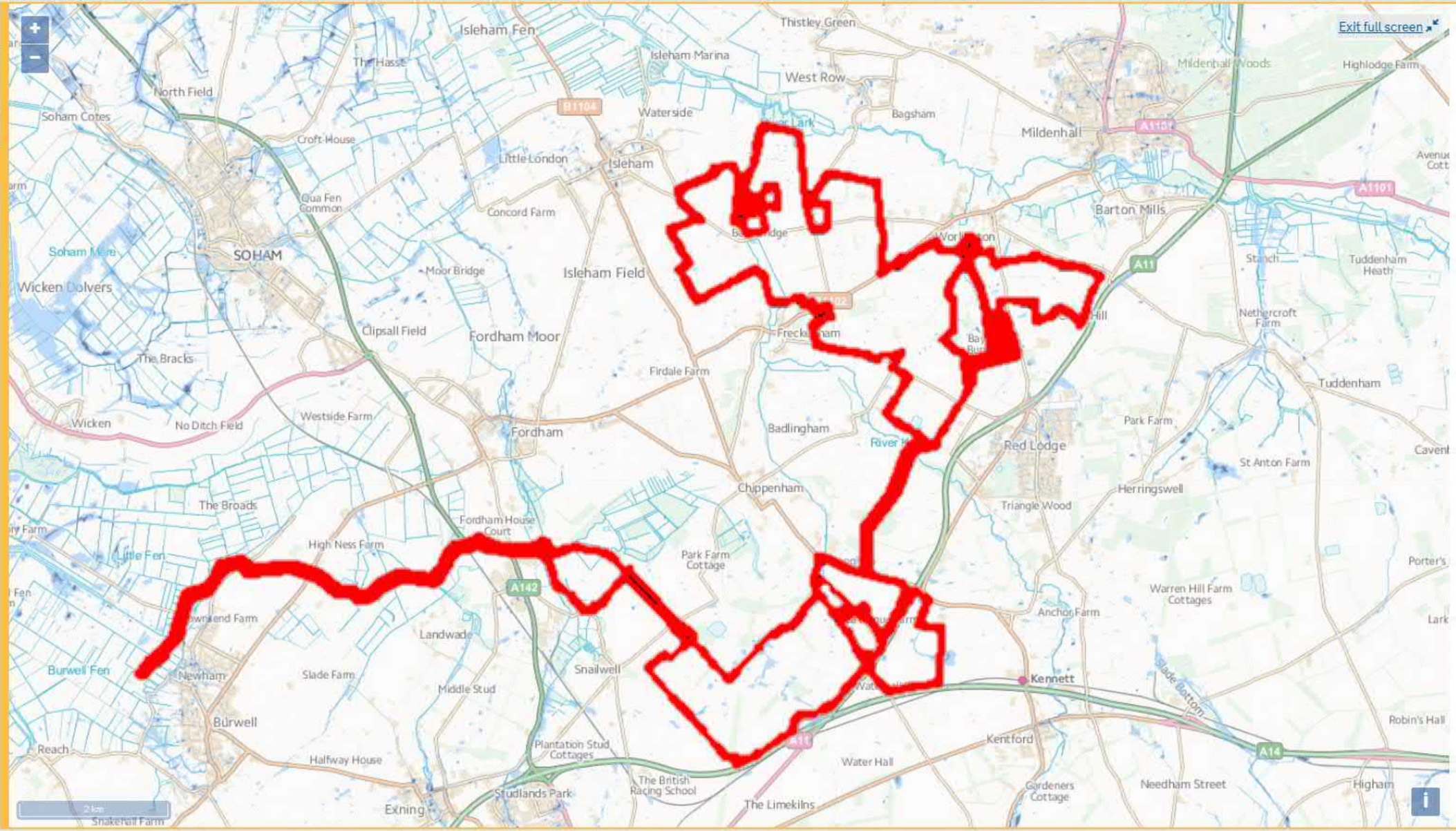
Extent of flooding

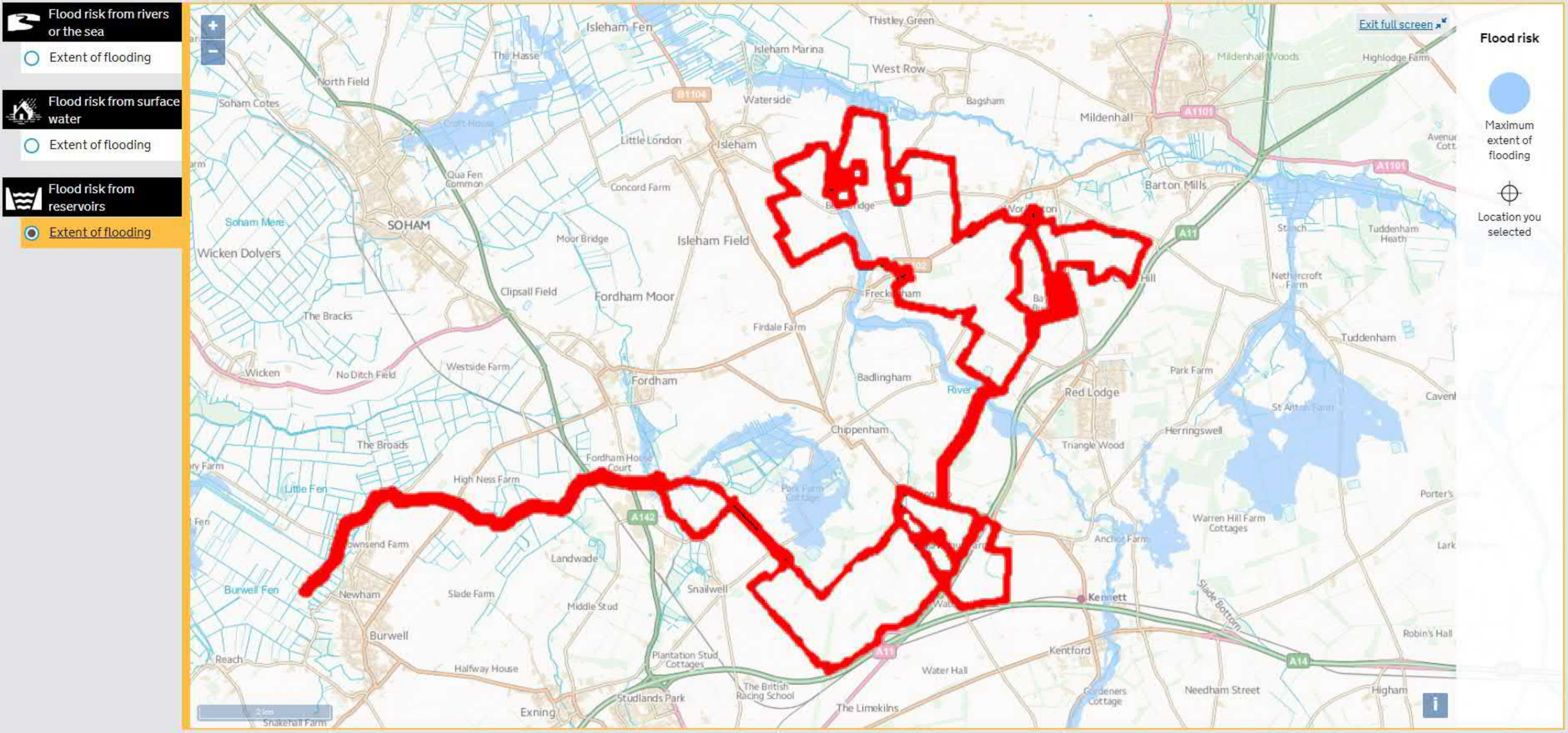
Flood risk from surface water

Extent of flooding

Flood risk from reservoirs

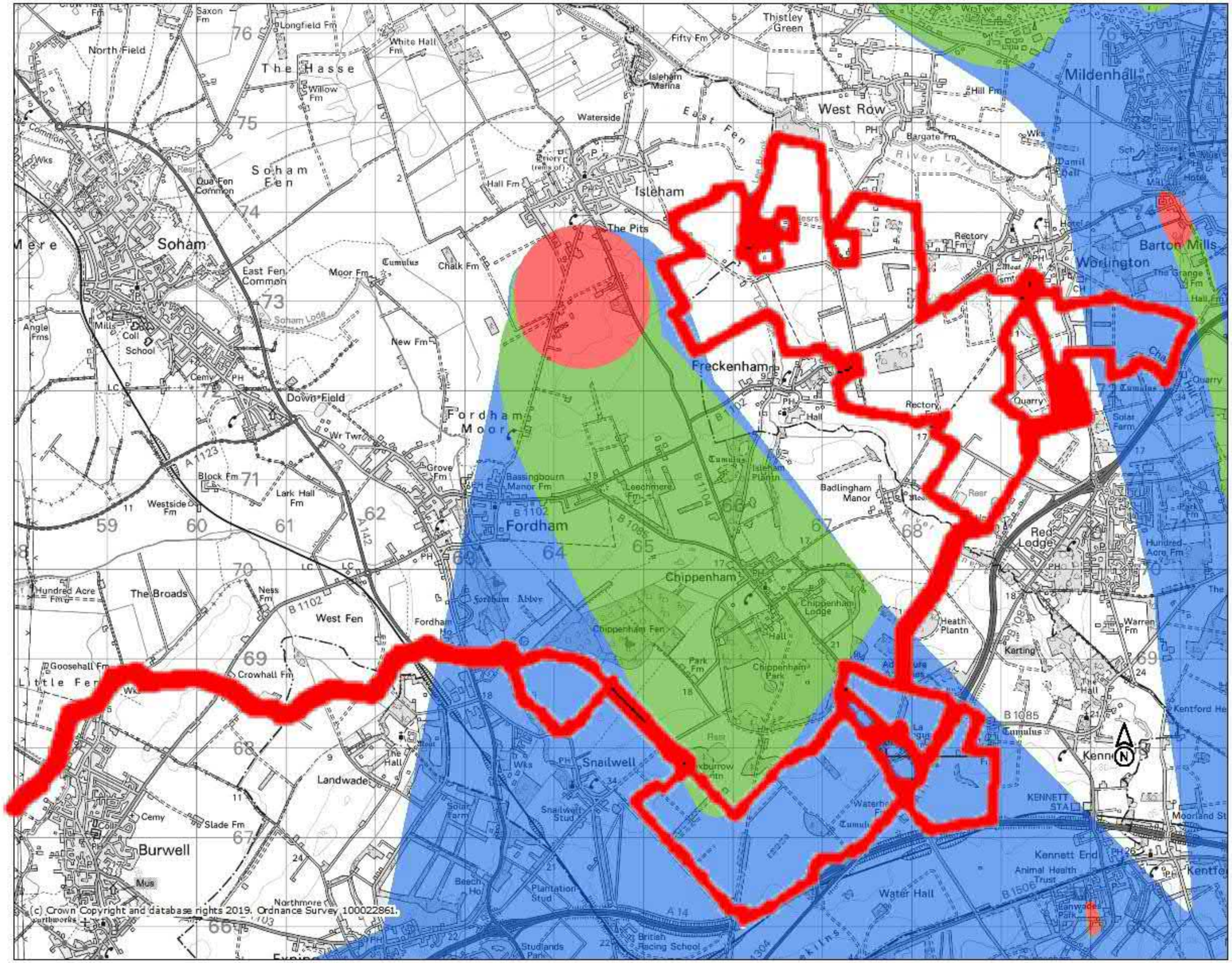
Extent of flooding




Flood risk from rivers or the sea
Extent of flooding
Flood risk from surface water
Extent of flooding
Flood risk from reservoirs
Extent of flooding
Exit full screen
Flood risk
Maximum extent of flooding
Location you selected
Isleham Fen
Thistley Green
Isleham Marina
West Row
The Hasse
North Field
Soham Cotes
Waterside
Bagsham
Mildenhall
Mildenhall Woods
Highlodge Farm
Little London
Isleham
Qua Fen Common
Concord Farm
Barton Mills
Soham Mere
SOHAM
Moor Bridge
Isleham Field
Wicken Dolvers
Clipsall Field
Fordham Moor
Tuddenham Heath
Nethercroft Farm
The Bracks
Firdale Farm
Tuddenham
Wicken
No Ditch Field
Westside Farm
Fordham
Badlingham
Red Lodge
Park Farm
Chippenham
Herringswell
The Broads
Fordham House Court
Triangle Wood
High Ness Farm
Little Fen
Warren Hill Farm Cottages
Landwade
Snailwell
Burwell Fen
Newham
Slade Farm
Middle Stud
Kennett
Slade Bottom
Burwell
Robin's Hall
Reach
Plantation Stud Cottages
Kentford
Halfway House
Water Hall
The British Racing School
Needham Street
Higham
Studlands Park
Exning
The Limekilns
Snakehall Farm

MAGiC

Sunnica



(c) Crown Copyright and database rights 2019. Ordnance Survey 100022861.

Legend

Source Protection Zones merged (England)

- Zone I - Inner Protection Zone
- Zone I - Subsurface Activity
- Zone II - Outer Protection Zone
- Zone II - Subsurface Activity
- Zone III - Total Catchment
- Zone III - Subsurface Activity
- Zone of Special Interest

Projection = OSGB36
xmin = 554000
ymin = 265500
xmax = 575500
ymax = 276500

0 0.8 1.6 km

Map produced by MAGIC on 11 December, 2019.

N

Pear Tree Fm

Weston Ditch

Wr Twr

Mildenhall Airfield

Thistley Green

PH

Wr Twr

West Row

Hill Fm

PH

Bargate Fm

Wks

East Fen

Lee Fm

Rectory Fm

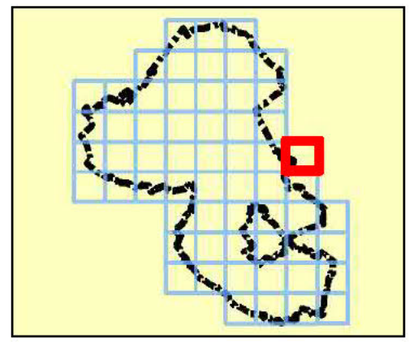
Notes

Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.

Zone 2: Comprised of land having between a 1 in 100 and 1 in 1,000 annual probability of river flooding or 1 in 200 and 1 in 1,000 annual probability of sea flooding in any year.

Zone 3a: This zone comprises land assessed as having a greater than 1in 100 annual probability of river flooding or a greater than 1 in 200 annual probability of flooding from sea in any year.

Zone 3b: This zone comprises land where water has to flow or be stored in times of flood (the functional floodplain).
The SFRA identified this Flood Zone as land which would flood with an annual probability of 1 in 20 years, where detailed modelling exists. In the absence of detailed hydraulic model information, a precautionary approach should be adopted for Flood Zone 3b with the assumption that the extent of Flood Zone 3b would be equal to Flood Zone 3a. If development is shown to be in Flood Zone 3a, further work should be undertaken as part of a detailed site specific flood risk assessment to define the extent of Flood Zone 3b.



Legend

- Council boundary
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Draft
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX B
FLOOD ZONE MAPS

Index Number: ECDC_30

JBA consulting

East Cambridgeshire District Council

Notes

Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.

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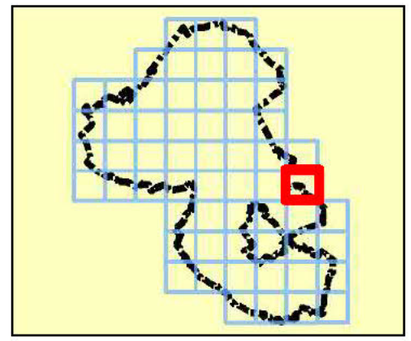


Legend

- Council boundary
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Draft
C		

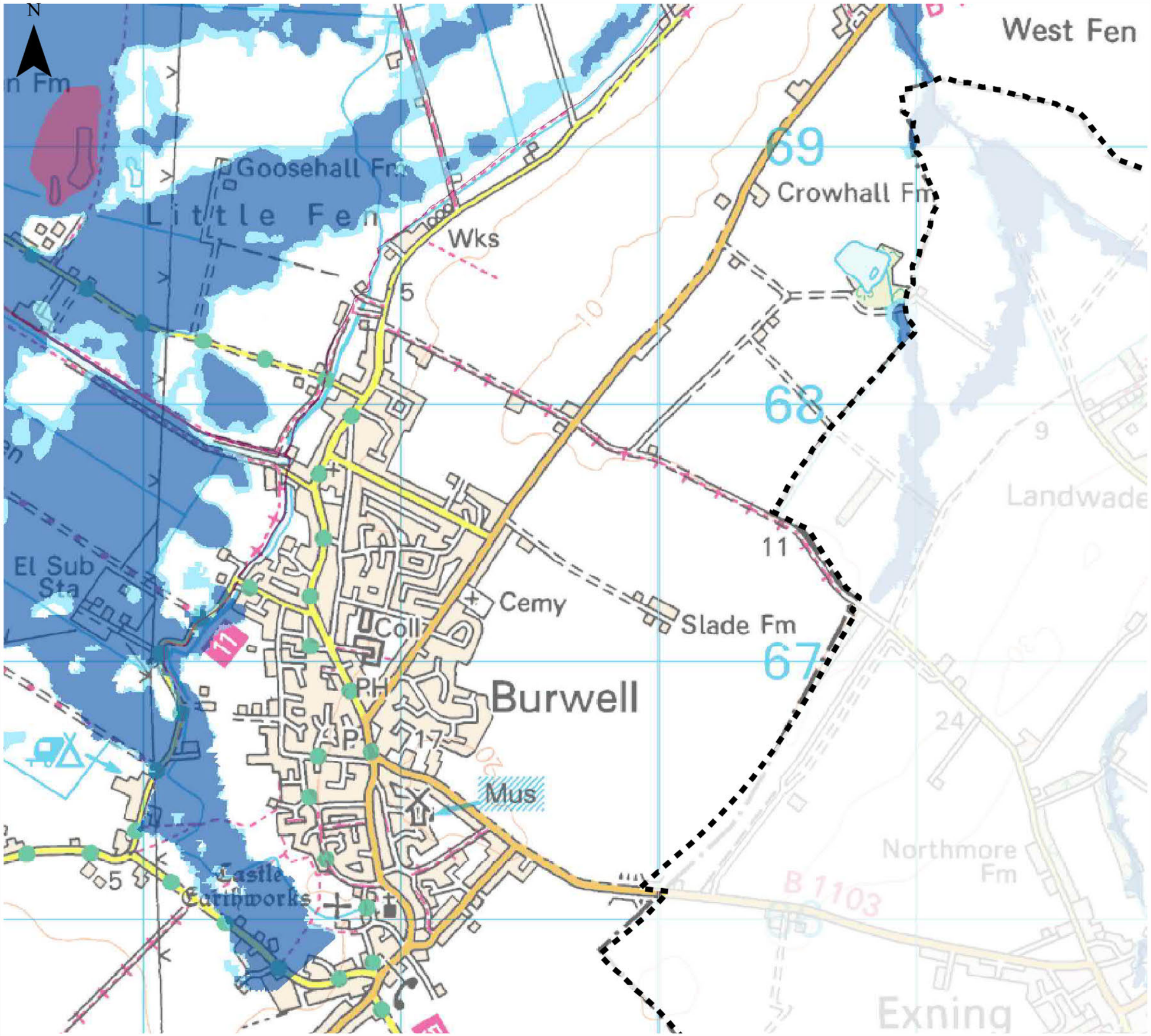
EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX B
FLOOD ZONE MAPS

Index Number: ECDC_38

JBA consulting

East Cambridgeshire District Council



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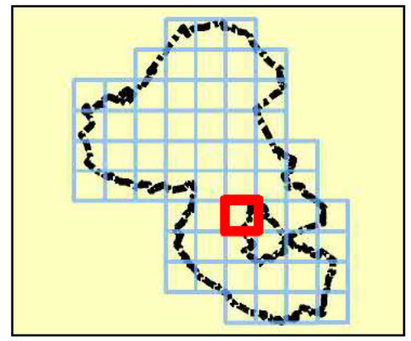

Legend

- Council boundary
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Draft
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX B
FLOOD ZONE MAPS

Index Number: ECDC_41

JBA consulting

East Cambridgeshire District Council

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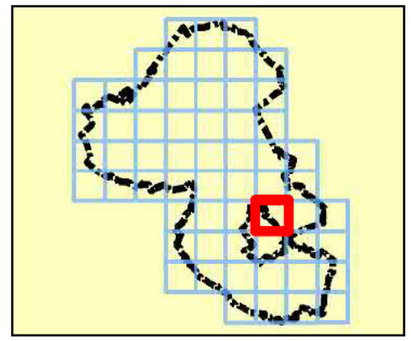


Legend

- Council boundary
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Draft
C		

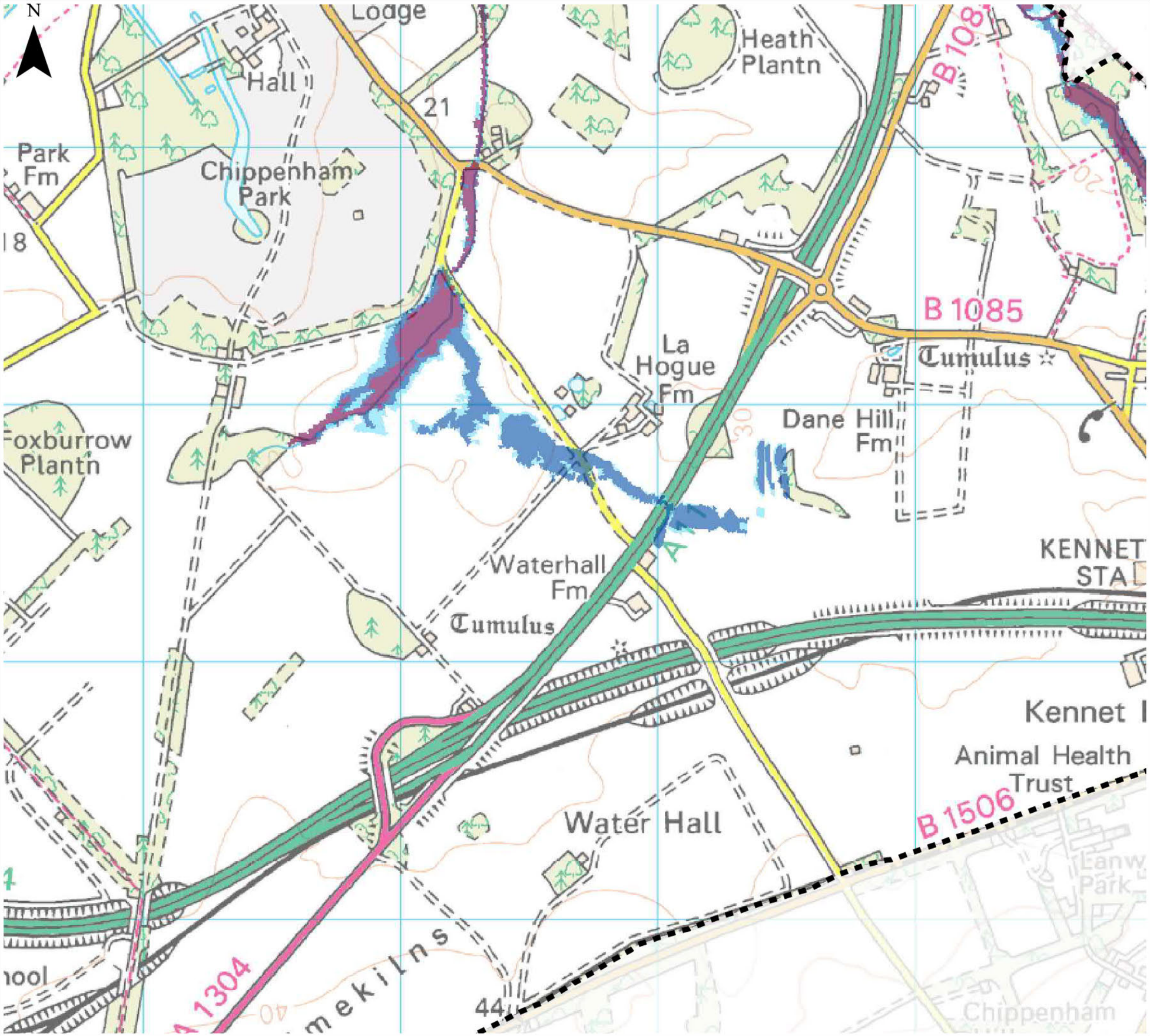
EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX B
FLOOD ZONE MAPS

Index Number: ECDC_42

JBA consulting

East Cambridgeshire District Council



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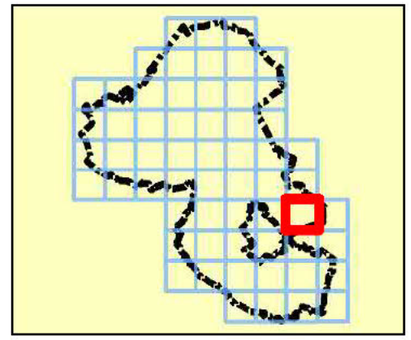


Legend

- Council boundary
- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Draft
C		

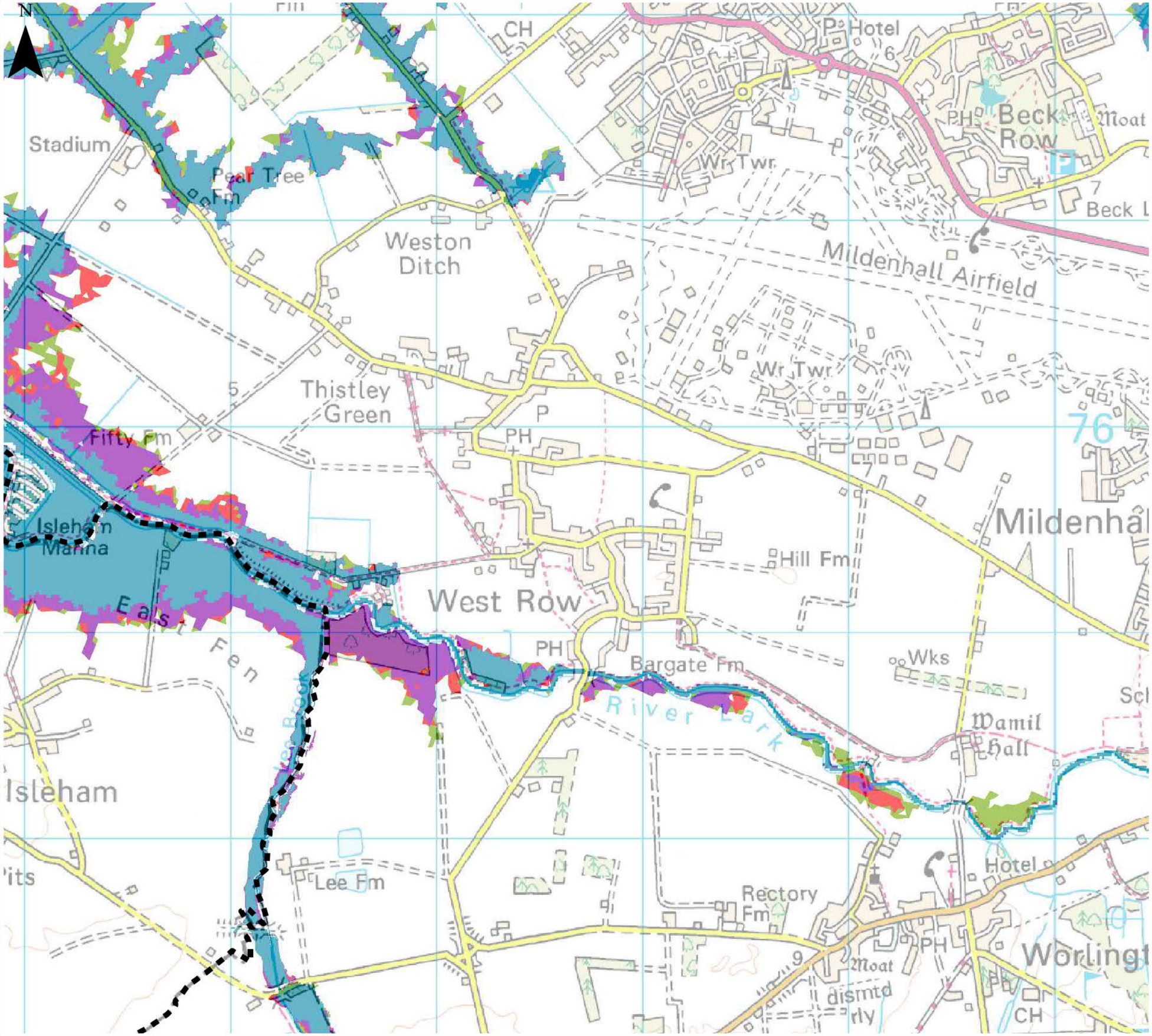
EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX B
FLOOD ZONE MAPS

Index Number: ECDC_43

JBA consulting

East Cambridgeshire District Council



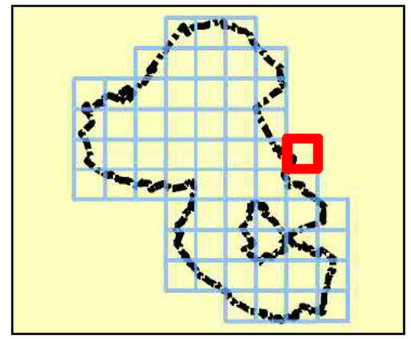
Notes

The climate change map shows the potential impacts that climate change may have on river flows and, subsequently, on flood events.

Where models exist in the study area, the 2080 climate change allowances have been applied to the 1 in 100 year flows for the defended scenario.
Central: 25%
Higher Central: 35%
Upper End: 65%

Developers should assess the flood risk implications of climate change to development as part of a detailed Flood Risk Assessment.

Key Plan



Legend

Council boundary

1 in 100 year defended scenario

1 in 100-year climate change (2080s)

Central

Higher Central

Upper End

0 0.2 0.4 0.8 1.2 km

REF	Date	Comments
A	Jan 2017	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX C
CLIMATE CHANGE MAPS

Index Number: ECDC_30

JBA consulting

East Cambridgeshire District Council

N

Lee Fm
Rectory Fm
Hotel
PH
Moat
dismtd rly
Worlingt
CH
Lee Brook
Freckenham
9
B 1102
PH
Hall
Rectory Fm
11
Tu
17
Tumulus
Isleham Plantn
B1104
echmere
Badlingham Manor
Moat
River Kennett
67
68
69
Heath Fm
Red Lodge
PH
17
Chippenham
PH
Chippenham Lodge
Hall
Heath Plantn
18
B1085
21
am Fen

Notes

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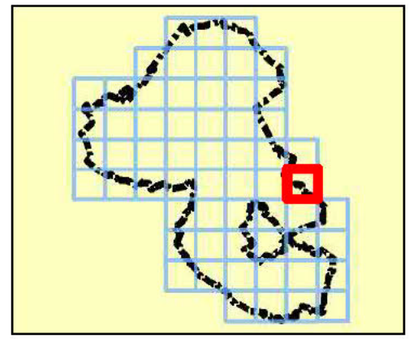
Key Plan



Legend

Council boundary

1 in 100 year defended scenario

1 in 100-year climate change (2080s)

Central

Higher Central

Upper End

0 0.2 0.4 0.8 1.2 km

REF	Date	Comments
A	Jan 2017	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX C
CLIMATE CHANGE MAPS

Index Number: ECDC_38

JBA consulting

East Cambridgeshire District Council

Notes

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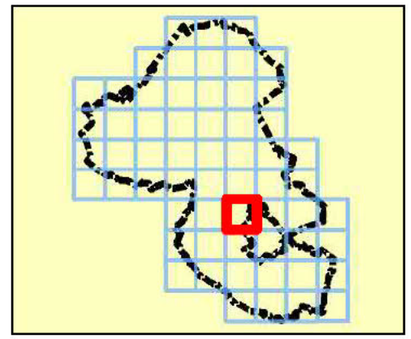


Legend

Council boundary

1 in 100 year defended scenario

1 in 100-year climate change (2080s)

Central

Higher Central

Upper End

0 0.2 0.4 0.8 1.2 km

REF	Date	Comments
A	Jan 2017	Draft
B	Feb 2017	Final
C		

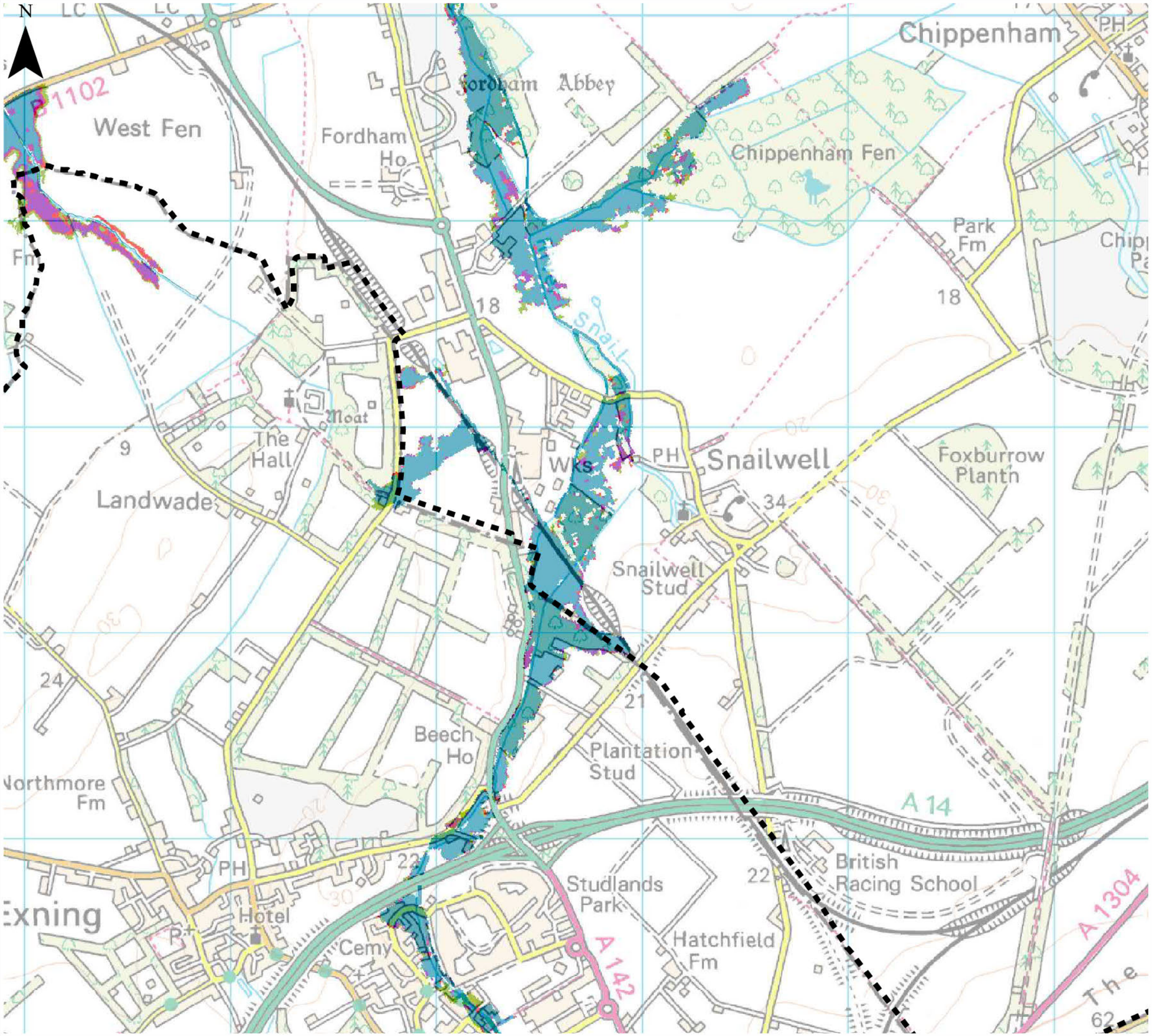
EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX C
CLIMATE CHANGE MAPS

Index Number: ECDC_41

JBA consulting

East Cambridgeshire District Council



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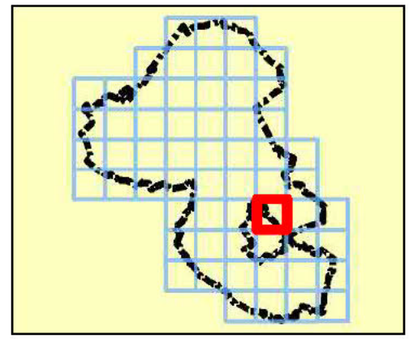


Legend

Council boundary

1 in 100 year defended scenario

1 in 100-year climate change (2080s)

Central

Higher Central

Upper End

0 0.2 0.4 0.8 1.2 km

REF	Date	Comments
A	Jan 2017	Draft
B	Feb 2017	Final
C		

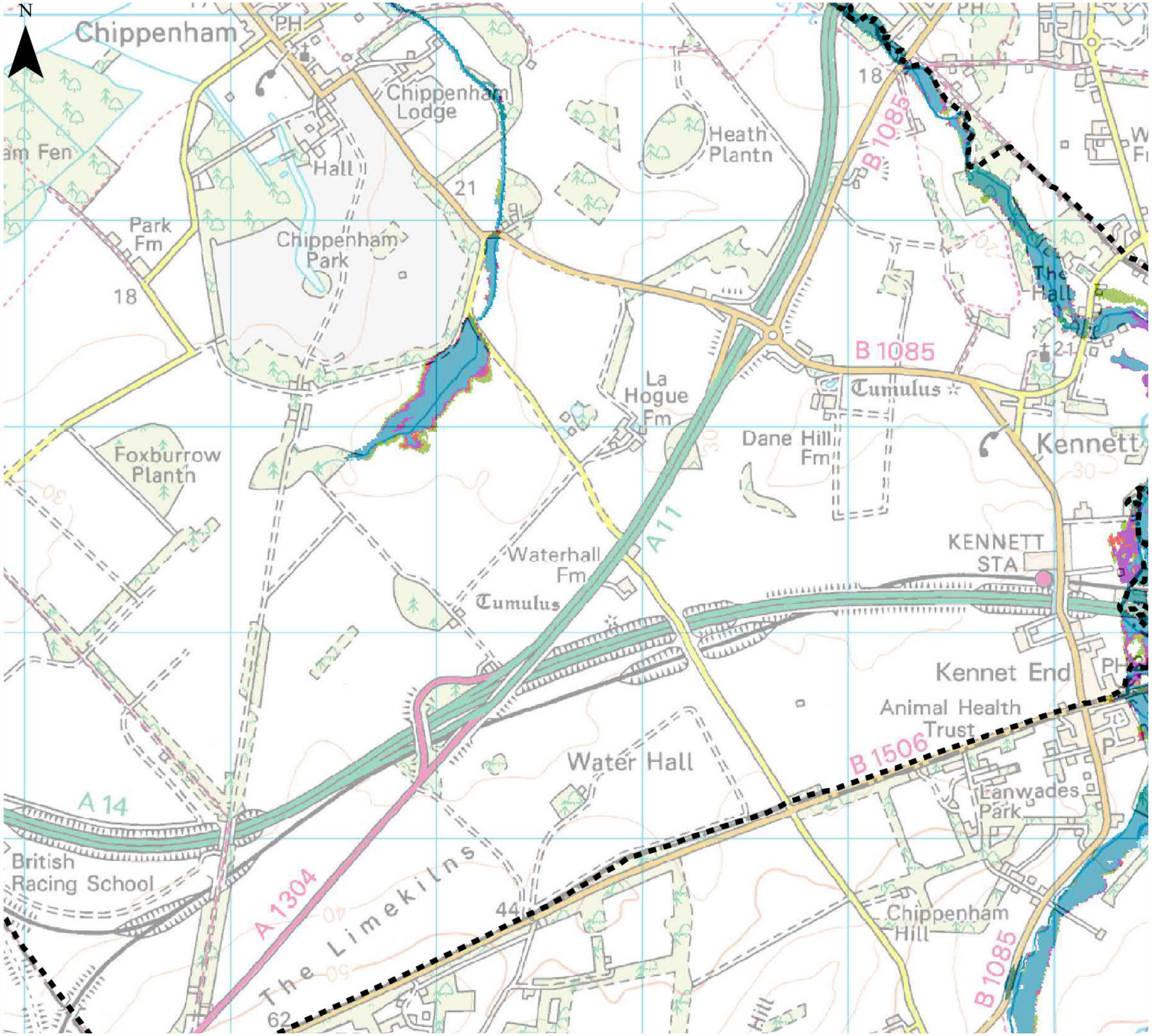
EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX C
CLIMATE CHANGE MAPS

Index Number: ECDC_42

JBA consulting

East Cambridgeshire District Council



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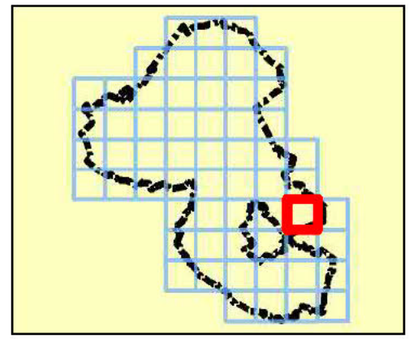

Legend

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1 in 100-year climate change (2080s)

Central

Higher Central

Upper End

0 0.2 0.4 0.8 1.2 km

REF	Date	Comments
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C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX C
CLIMATE CHANGE MAPS

Index Number: ECDC_43

JBA consulting

East Cambridgeshire District Council

N

Pear Tree Fm

Weston Ditch

Wr Twr

Mildenhall Airfield

Thistley Green

Wr Twr

PH

West Row

Hill Fm

PH

Bargate Fm

Wks

River Lark

East Fen

Lee Brook

Lee Fm

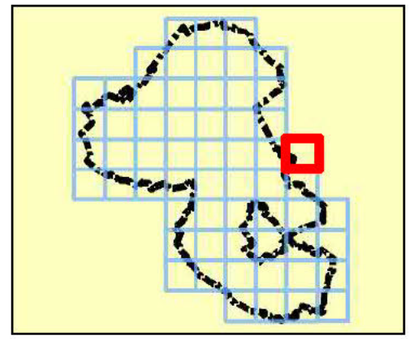
Rectory Fm

Notes

The updated Flood Map for Surface Water (uFMfSW) shows the flooding that takes place from the 'surface runoff' generated by rainwater (including snow and other precipitation) which:
(a) is on the surface of the ground (whether or not it is moving), and
(b) has not yet entered a watercourse, drainage system or public sewer.

The uFMfSW will pick out natural drainage channels, rivers, low areas in the floodplain and flow paths between buildings but it will only indicate flooding caused by local rainfall.

Note: The uFMfSW shows predictions of flooded areas but does not show whether individual properties will be affected by surface water flooding or have been affected in the past. The uFMfSW should not be used to predict if individual properties will flood.



Legend

- Council boundary
- uFMfSW* 30-year Extent
- uFMfSW* 100-year Extent
- uFMfSW* 1,000-year Extent

*updated Flood Map for Surface Water

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX D
SURFACE WATER FLOOD MAPS

Index Number: ECDC_30

JBA consulting

East Cambridgeshire District Council

Notes

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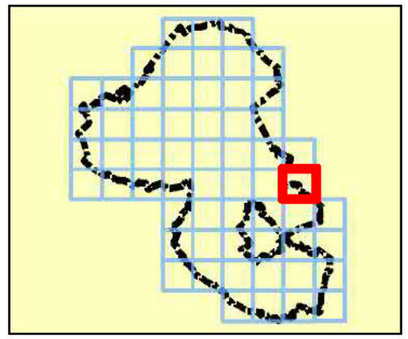

Legend

- Council boundary
- uFMfSW* 30-year Extent
- uFMfSW* 100-year Extent
- uFMfSW* 1,000-year Extent

*updated Flood Map for Surface Water

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX D
SURFACE WATER FLOOD MAPS

Index Number: ECDC_38

JBA consulting

East Cambridgeshire District Council

N

n Fm

Goosehall Fm

Little Fen

Wks

West Fen

69

Crowhall Fm

68

67

Landwade

El Sub Sta

11

Cemy

Coll

Slade Fm

PH

Burwell

Mus

Castle Earthworks

Northmore Fm

B 1103

Exning

Notes

The updated Flood Map for Surface Water (uFMfSW) shows the flooding that takes place from the 'surface runoff' generated by rainwater (including snow and other precipitation) which:
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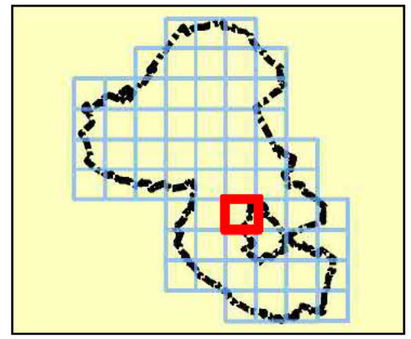

Legend

- Council boundary
- uFMfSW* 30-year Extent
- uFMfSW* 100-year Extent
- uFMfSW* 1,000-year Extent

*updated Flood Map for Surface Water

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX D
SURFACE WATER FLOOD MAPS

Index Number: ECDC_41

JBA consulting

East Cambridgeshire District Council

Notes

The updated Flood Map for Surface Water (uFMfSW) shows the flooding that takes place from the 'surface runoff' generated by rainwater (including snow and other precipitation) which:
(a) is on the surface of the ground (whether or not it is moving), and
(b) has not yet entered a watercourse, drainage system or public sewer.

The uFMfSW will pick out natural drainage channels, rivers, low areas in the floodplain and flow paths between buildings but it will only indicate flooding caused by local rainfall.

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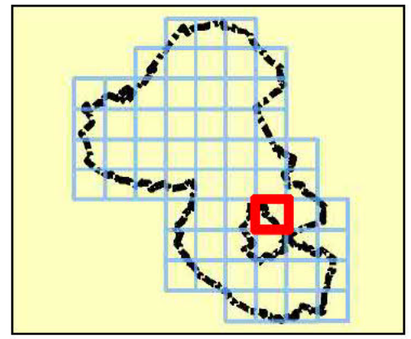

Legend

- Council boundary
- uFMfSW* 30-year Extent
- uFMfSW* 100-year Extent
- uFMfSW* 1,000-year Extent

*updated Flood Map for Surface Water

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX D
SURFACE WATER FLOOD MAPS

Index Number: ECDC_42

JBA consulting

East Cambridgeshire District Council

Notes

The updated Flood Map for Surface Water (uFMfSW) shows the flooding that takes place from the 'surface runoff' generated by rainwater (including snow and other precipitation) which:
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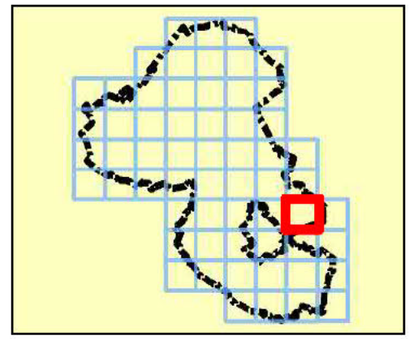


Legend

- Council boundary
- uFMfSW* 30-year Extent
- uFMfSW* 100-year Extent
- uFMfSW* 1,000-year Extent

*updated Flood Map for Surface Water

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX D
SURFACE WATER FLOOD MAPS

Index Number: ECDC_43

JBA consulting

East Cambridgeshire District Council

N

Pear Tree Fm

Weston Ditch

Thistley Green

West Row

Bargate Fm

River Lark

Lee Fm

Rectory Fm

Hill Fm

Wks

Lee Brook

East Fen

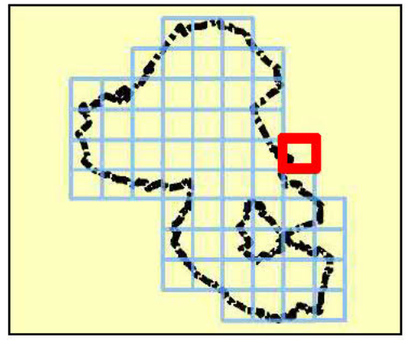
Mildenhall Airfield

Notes

The Areas Susceptible to Groundwater Flooding (AStGWF) is a strategic scale map showing groundwater flood areas on a 1km square grid. The data was produced to annotate indicative Flood Risk Areas for Preliminary Flood Risk Assessment (PFRA) studies and allow the Lead Local Flood Authorities (LLFAs) to determine whether there may be a risk of flooding from groundwater.

This data shows the proportion of each 1km grid square where geological and hydrogeological condition show that groundwater might emerge. It does not show the likelihood of groundwater flooding occurring. It does not take account of the chance of flooding from groundwater rebound. This dataset covers a large area of land, and only isolated locations within the overall susceptible area are actually likely to suffer the consequences of groundwater flooding.

The AStGWF data should be used only in combination with other information, for example local data or historic data. It should not be used as sole evidence for any specific flood risk management, land use planning or other decisions at any scale. However, the data can help to identify areas for assessment at a local scale where finer resolution datasets exist.



Legend

MLC_main_drains

Council boundary

Areas Susceptible to Groundwater Flooding

Classification

- ≥ 75%
- ≥ 50% <75%
- ≥ 25% < 50%
- < 25%

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX E
GROUNDWATER FLOOD MAPS

Index Number: ECDC_30

JBA consulting

East Cambridgeshire District Council

Notes

The Areas Susceptible to Groundwater Flooding (AStGWF) is a strategic scale map showing groundwater flood areas on a 1km square grid. The data was produced to annotate indicative Flood Risk Areas for Preliminary Flood Risk Assessment (PFRA) studies and allow the Lead Local Flood Authorities (LLFAs) to determine whether there may be a risk of flooding from groundwater.

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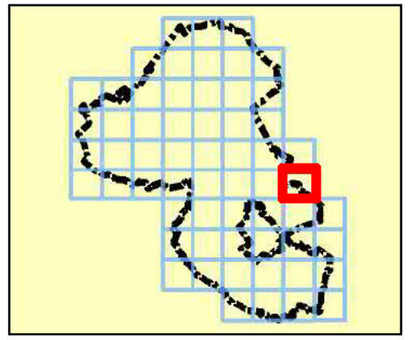


Legend

MLC_main_drains

Council boundary

Areas Susceptible to Groundwater Flooding

Classification

- ≥ 75%
- ≥ 50% <75%
- ≥ 25% < 50%
- < 25%

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

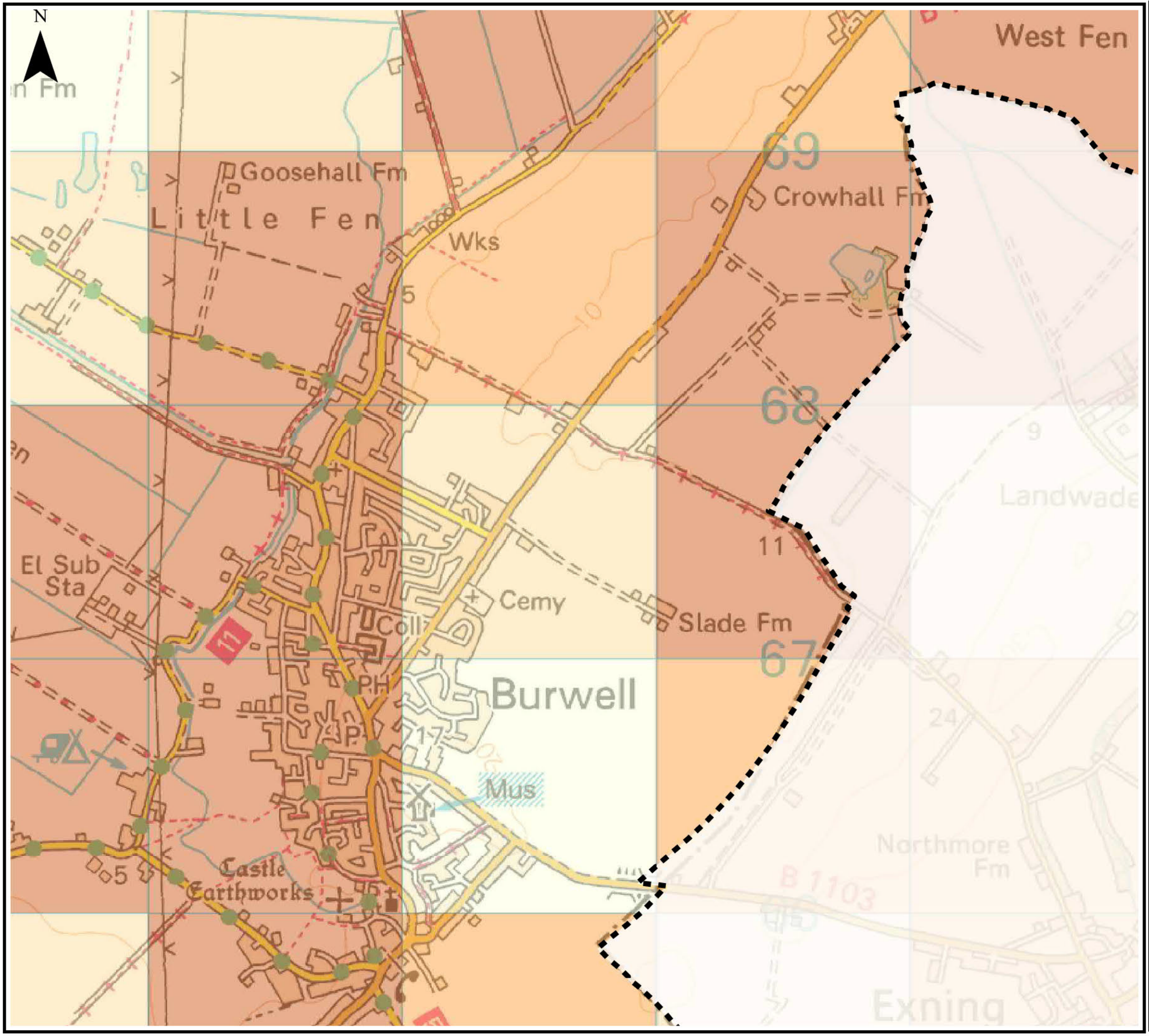
EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX E
GROUNDWATER FLOOD MAPS

Index Number: ECDC_38

JBA consulting

East Cambridgeshire District Council



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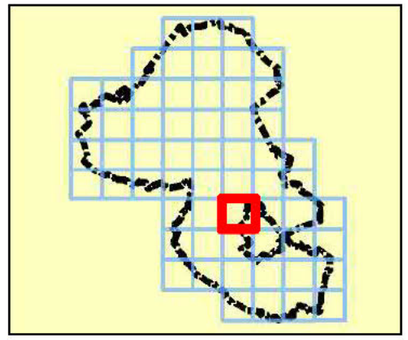

Legend

MLC_main_drains

Council boundary

Areas Susceptible to Groundwater Flooding

Classification

- ≥ 75%
- ≥ 50% <75%
- ≥ 25% < 50%
- < 25%

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX E
GROUNDWATER FLOOD MAPS

Index Number: ECDC_41

JBA consulting

East Cambridgeshire District Council

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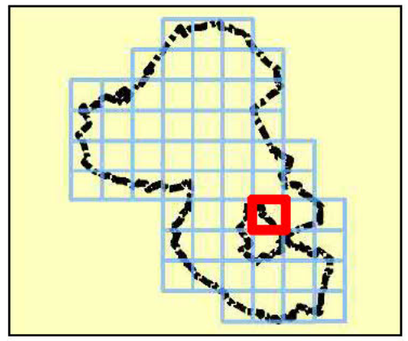

Legend

MLC_main_drains

Council boundary

Areas Susceptible to Groundwater Flooding

Classification

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- ≥ 50% <75%
- ≥ 25% < 50%
- < 25%

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

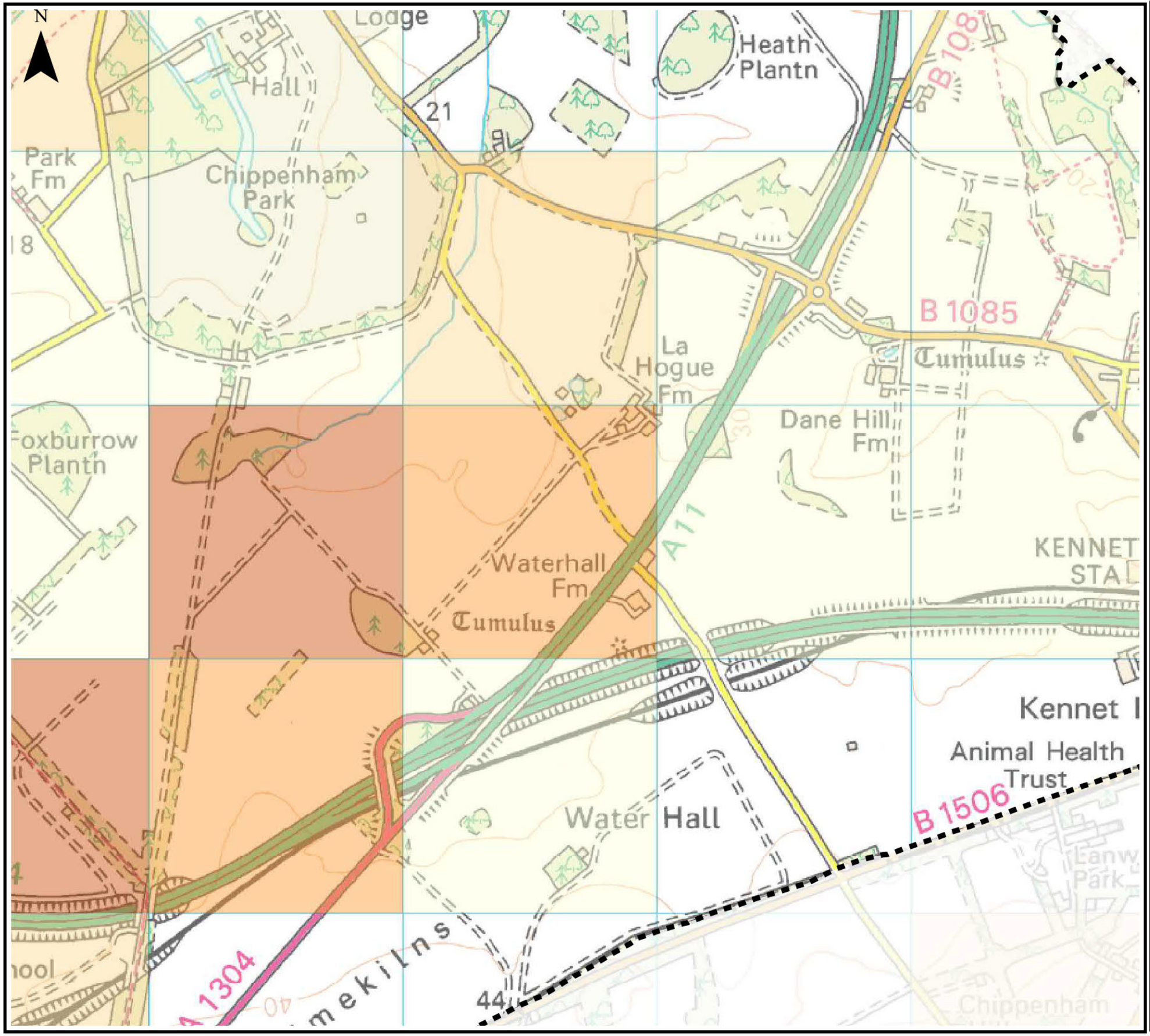
EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX E
GROUNDWATER FLOOD MAPS

Index Number: ECDC_42

JBA consulting

East Cambridgeshire District Council



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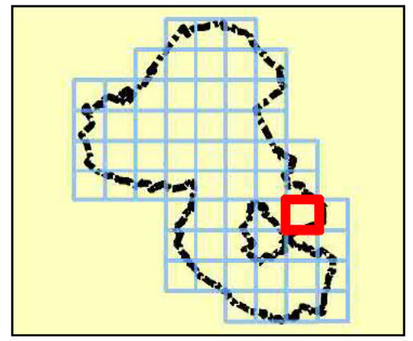

Legend

MLC_main_drains

Council boundary

Areas Susceptible to Groundwater Flooding

Classification

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- ≥ 50% <75%
- ≥ 25% < 50%
- < 25%

0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	Aug 2016	Draft
B	Feb 2017	Final
C		

EAST CAMBRIDGESHIRE DISTRICT COUNCIL

APPENDIX E
GROUNDWATER FLOOD MAPS

Index Number: ECDC_43

JBA consulting

East Cambridgeshire District Council

Map no: 0103-BM01397-02

Map no: 0104-BM01397-02

Map no: 0105-BM01397-02

Map no: 0106-BM01397-02

Map no: 0114-BM01397-02

Map no: 0109-BM01397-02

Map no: 0110-BM01397-02

Map no: 0111-BM01397-02

Map no: 0112-BM01397-02

Map no: 0113-BM01397-02

FOREST HEATH DISTRICT

THETFORD

NEWMARKET

MUNDS

MAP LEGEND

- Forest Heath District Boundary
- St Edmundsbury Borough Boundary
- Flood Zone 1
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b
- Flood Zone 3a (with climate change)
- Main River
- Raised Flood Defence
- Culverted Channel
- Waste Water Treatment Works
- Historic External Sewer Flooding
- Historic Internal Sewer Flooding
- Historic Groundwater Flooding
- Historic Fluvial Flooding

Forest Heath Sites

- Residential
- Employment
- Hospital Expansion
- Cemetary
- General Development Areas

St Edmundsbury Sites

- Residential
- Employment
- West Suffolk College
- New Local Centre
- Sugar Restoration Area

NOTES

1. This map shows Flood Zones as defined in Table D.1 of PPS25 within the boundaries of Forest Heath & St Edmundsbury Council, ignoring the presence of any existing flood defences. It should be read in conjunction with the supporting information presented in the Strategic Flood Risk Assessment Level 1 Report, prepared by Hyder Consulting December 2008.

2. Flood Zones 1, 2, 3a and 3b refer to the probability of river and sea flooding only, ignoring the presence of defences. They also ignore additional risk due to blockages of river channels and structures.

3. The sites in the St Edmundsbury Council area were taken from the 2007 LDF for employment and updated information in October 2008 for the potential residential allocations.

4. The sites within the Forest Heath Council boundary were taken from their LDF 2006.

5. The effects of possible climate change over the next 100 years have been represented for Flood Zone 3a, where these model outlines have been currently completed. The locations where further modelling will be required are indicated in the Level 1 SFRA report.

6. All flood risk areas at the boundaries of the study area need special attention when used for any purpose as the map only shows areas at risk within the respective Council Boundary.

Map Tile Location

NTP	LAF	TRG	Final	March 09
NTP	LAF	TRG	Draft	Dec 08
DRAWN	CHECKED	APPROVED		DATE

Forest Heath District Council

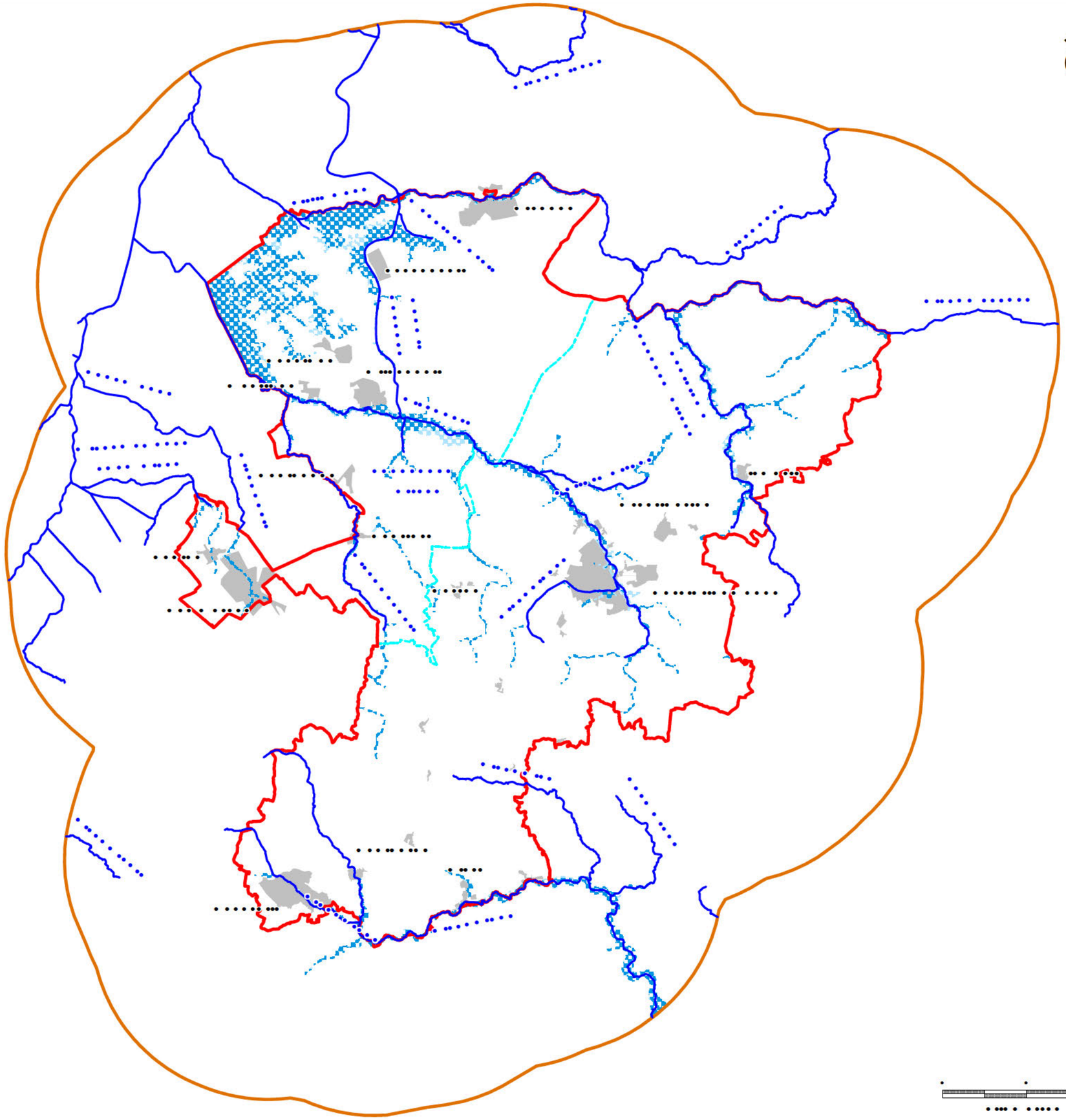
St Edmundsbury Borough Council

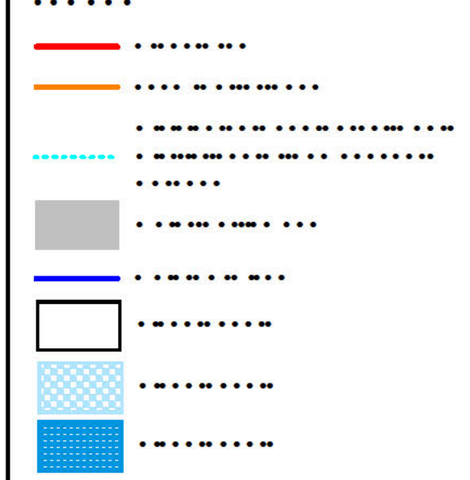
Forest Heath District Council & St Edmundsbury Borough Council Strategic Flood Risk Assessment & Water Cycle Study

Strategic Flood Risk Assessment Level 1 Map Study Area - North

Hyder Consulting

DRAWING NO.	FIGURE NO	SCALE	REVISION
0101-BM01397-BMD-02	SFRA-01	1:60,000	02





Forest Heath
District Council

St Edmundsbury
BOROUGH COUNCIL

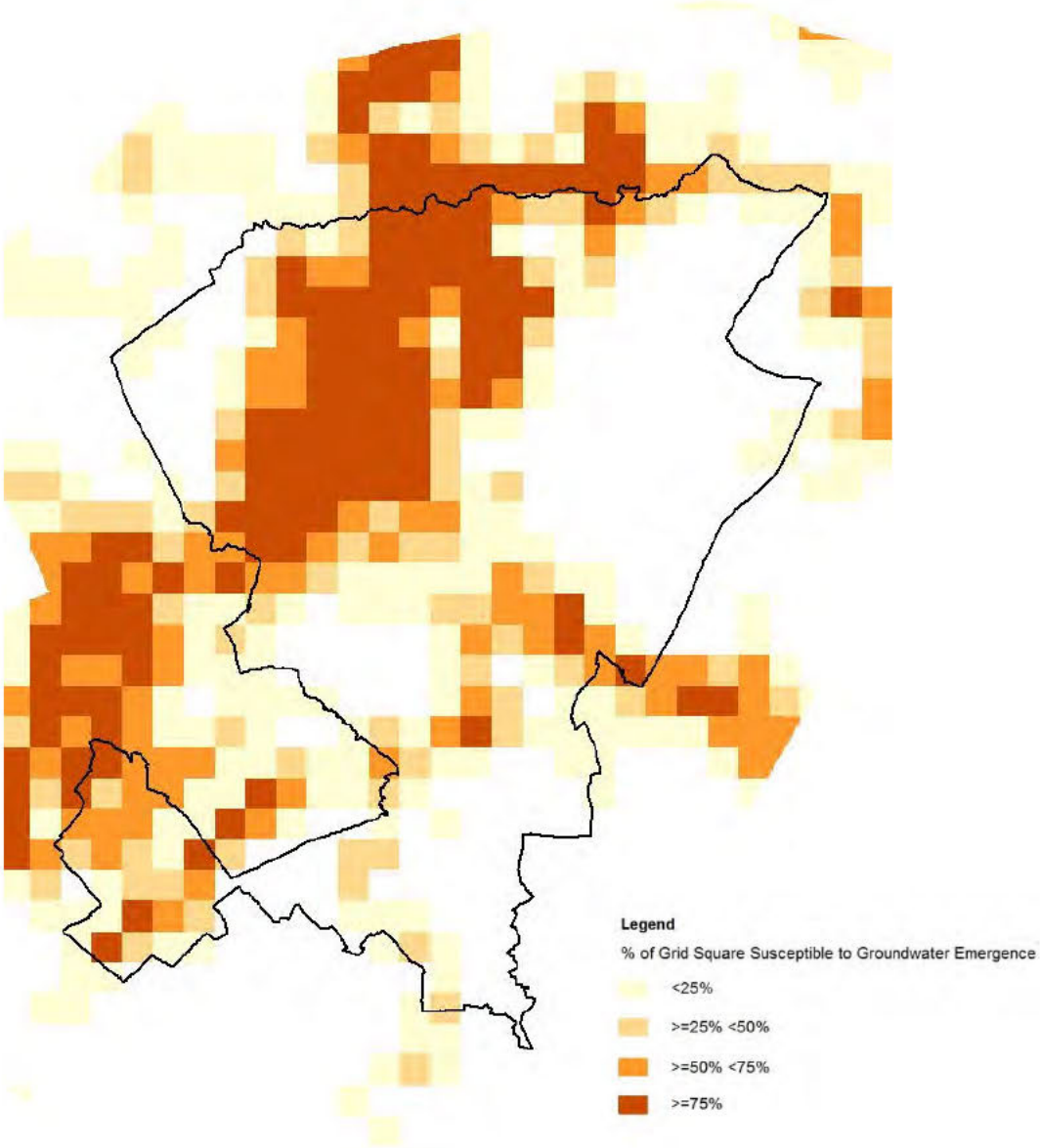
Hyder
Consulting

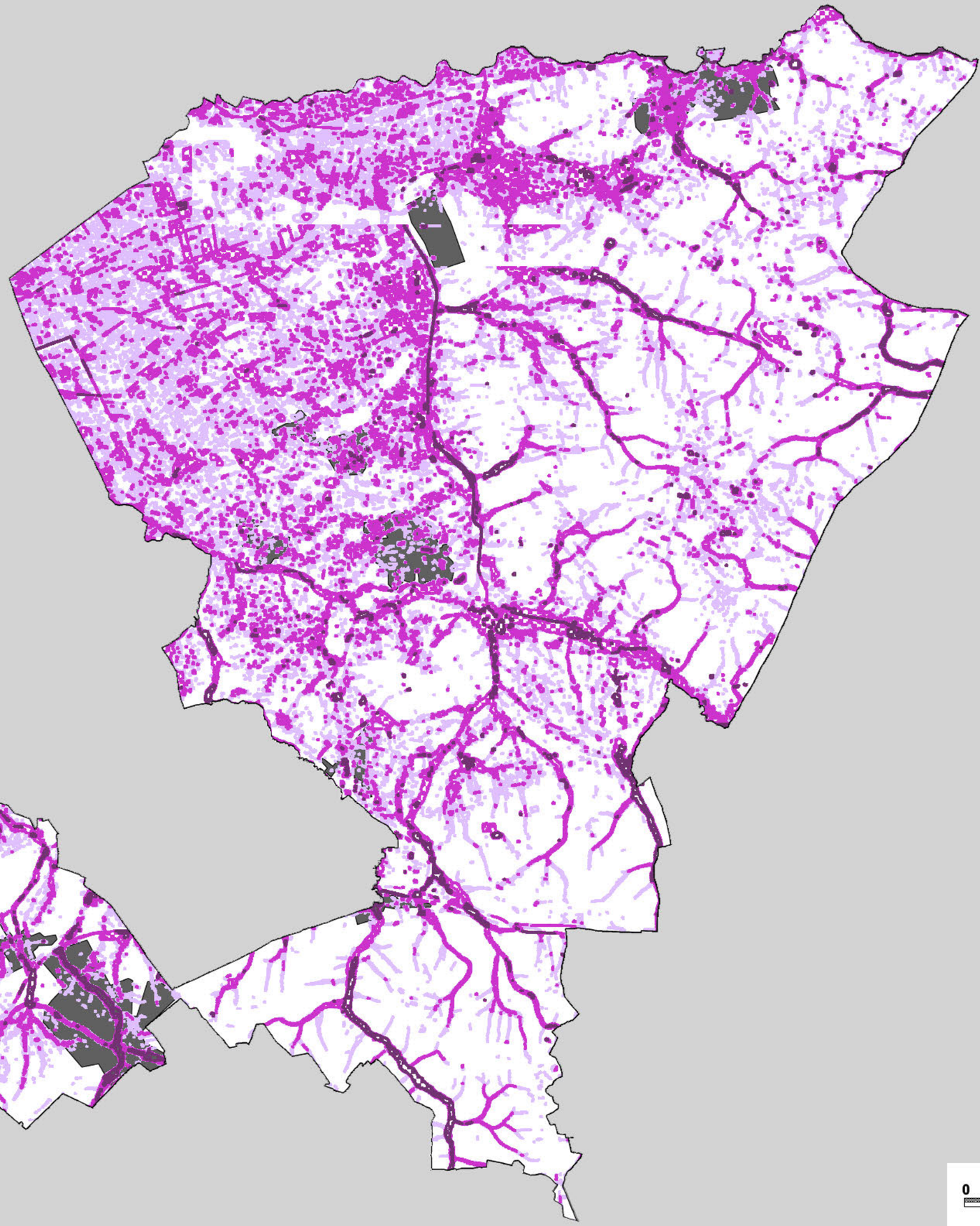
N

Forest Heath
District Council

St Edmundsbury
BOROUGH COUNCIL

Hyder
Consulting


Legend
% of Grid Square Susceptible to Groundwater Emergence
<25%
>=25% <50%
>=50% <75%
>=75%



LEGEND

Areas Susceptible to Surface Water Flooding

- More (>1.0m)
- Intermediate (0.3m - 1.0m)
- Less (0.1m - 0.3m)
- Main Settlements
- Forest Heath Boundary

The map shows areas that are susceptible to surface water flooding. It has been produced using a simplified method that excludes:

Underground sewerage and drainage systems;
Smaller over ground drainage systems;
Buildings.

This map shows the Environment Agency Areas Susceptible to Surface Water Flooding (2008) which have been provided to Forest Heath District Council under Special License. This data and map is strictly for internal use only.

Rev	Drw	Chk	Apd		Date
A	AMM	LAF	LAF		MAY 2011

Forest Heath District Council

Environment Agency

FOREST HEATH STRATEGIC FLOOD RISK ASSESSMENT

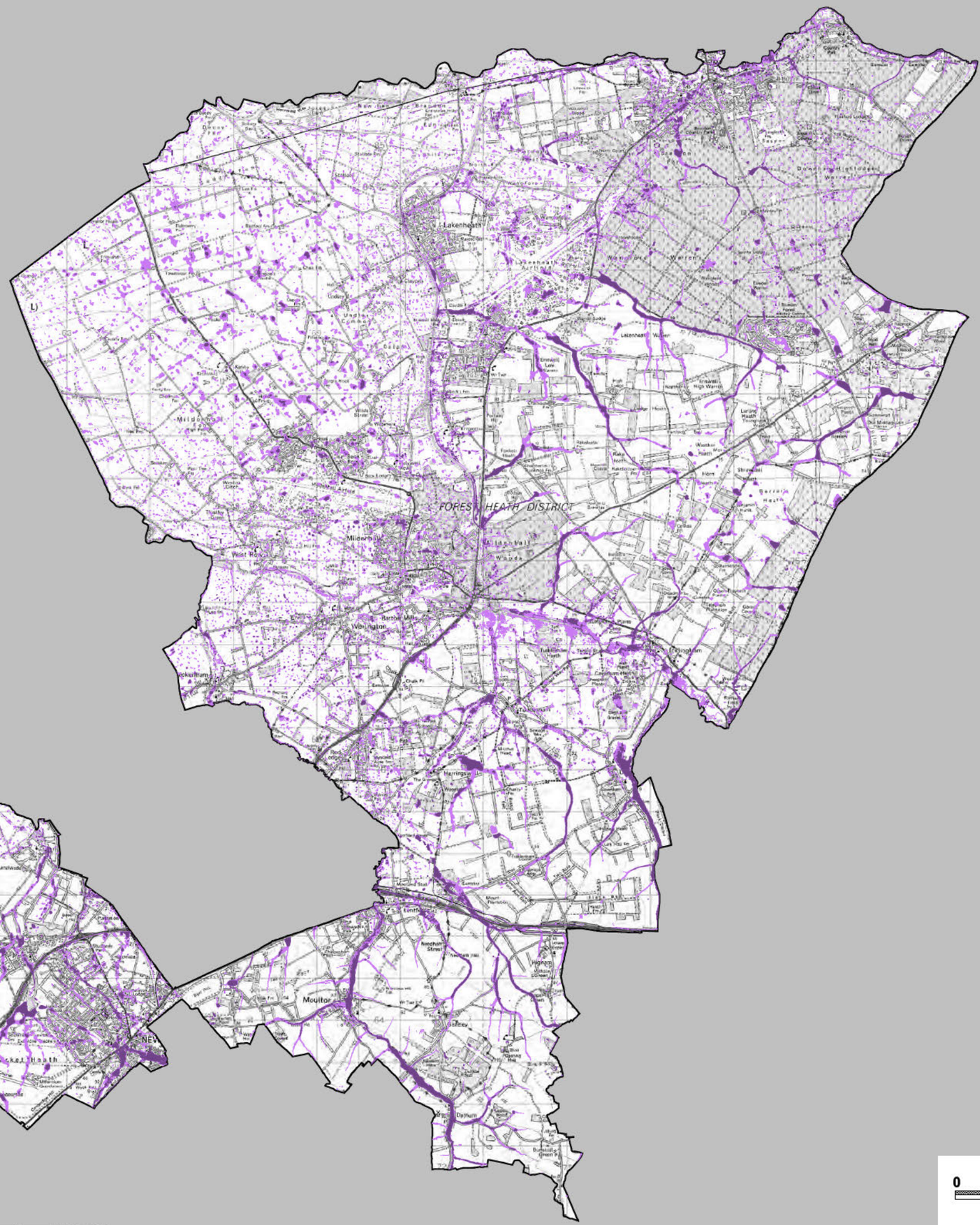
FOREST HEATH DISTRICT COUNCIL

SURFACE WATER SUCEPTIBILITY

Hyder Consulting

Drawing	Figure	Scale	Rev
0202-BM01397-BMD-01	A-2	NTS	A

0 5 10
kilometres



0 5 10
kilometres

LEGEND

DEEP (>0.3M)

SHALLOW (>0.1M)

This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale due to the method used.

Rev	Drw	Chk	Apd		Date
A	CLG	LAF	LAF		OCT 2011

Forest Heath District Council

Environment Agency

FOREST HEATH STRATEGIC FLOOD RISK ASSESSMENT

FOREST HEATH DISTRICT COUNCIL

FLOOD MAP FOR SURFACE WATER 0.5% AEP (1 IN 200 CHANCE OF OCCURRENCE IN ANY GIVEN YEAR)

Hyder Consulting

Drawing	Figure	Scale	Rev
0204-BM01397-BMD-01	A-4	NTS	A

creating a better place

Environment Agency

Chris Brandon
Christopher.Brandon@aecom.com

Our ref EAn/2021/222441
Date 09 July 2021

Dear Chris

Enquiry regarding Product 4 & 6 for Sunnica Energy Farm

Thank you for your enquiry which was received on 11 June 2021.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Some information is attached with this letter the rest of the information we hold has been uploaded to our sharefile system and can be accessed for 30 days using these links: https://ea.sharefile.com/d-s55ec046f81054faa8a72b11b40ee4691

Further Asset Management Data and Information can be found online using this link: https://environment.data.gov.uk/asset-management/index.html

Abstract

Name	Products 5, 6 & 7
Description	*Eastern Rivers* *Product 5 – Eastern Rivers Modelling Report: Lower Rivers, October 2015, JBA Consulting* *Product 6 – Output data of Eastern Rivers Modelling: Cut Off Channel, MP1, September 2015, JBA Consulting* *Product 7 - Calibrated and Verified Model Input data of Eastern Rivers Modelling: Cut Off Channel, MP1, September 2015, JBA Consulting.* *River Kennett* *Product 5 – Eastern Rivers Modelling Report: River Lark and River Kennett, July 2015, JBA Consulting* *Product 6 – Output data of Eastern Rivers Modelling: River Kennett, MP13, September 2015, JBA Consulting* *Product 7 – Calibrated and Verified Model Input data of Eastern Rivers Modelling: River Kennett, MP13, September 2015, JBA Consulting* *Cam Lodes* *Product 5 – Cam Phase 2 Model Report, February 2012, Halcrow* *Product 6 – Output data of River Cam Phase 2 Flood Mapping – Cam Lodes Model, February 2012, Halcrow*

	Product 7 - Calibrated and Verified Model Input data of River Cam Phase 2 Flood Mapping – Cam Lodes Model, February 2012, Halcrow
Licence	The following information is not available under the Open Government Licence but we may be able to license it to you under the Environment Agency Conditional Licence [redacted] However, you MUST first check the supporting information and the above link to determine if the conditions on use are suitable for your purposes. If they aren't, this information is not provided with a licence for use, and the data is provided for read right only.
Conditions	1.0 You may use the Information for your internal or personal purposes and may only sublicense others to use it if you do so under a written licence which includes the terms of these conditions and the agreement and in particular may not allow any period of use longer than the period licensed to you. 2.0 Notwithstanding the fact that the standard wording of the Environment Agency Conditional Licence indicates that it is perpetual, this Licence has a limited duration of 5 years at the end of which it will terminate automatically without notice. 3.0 We have restricted use of the Information as a result of legal restrictions placed upon us to protect the rights or confidentialities of others. In this instance it is because of third party data. If you contact us in writing (this includes email) we will, as far as confidentiality rules allow, provide you with details including, if available, how you might seek permission from a third party to extend your use rights. 4.1 The Information may contain some data that we believe is within the definition of "personal data" under the Data Protection Act 1998 but we consider that we will not be in breach of the Act if we disclose it to you with conditions set out in this condition and the conditions above. This personal data comprises names of individuals or commentary relating to property that may be owned by an individual or commentary relating to the activities of an individual. 4.2 Under the Act a person who holds and uses or passes to others personal data is responsible for any compliance with the Act and so we have no option but to warn you that this means you have responsibility to check that you are compliant with the Act in respect of this personal data. 5.0 The location of public water supply abstraction sources must not be published to a resolution more detailed than 1km2. Information about the operation of flood assets should not be published. 6.1 Where we have supplied model data which may include model inputs or outputs you agree to supply to the Environment Agency copies of any assessments/studies and related outputs, modifications or derivatives created pursuant to the supply to you of the Information, all of which are hereinafter referred to as "the Data". 6.2 You agree, in the public interest to grant to the Environment Agency a perpetual royalty free non-exclusive licence to use the Data

	or any part thereof for its internal purposes or to use it in any way as part of Environment Agency derivative products which it supplies free of charge to others such as incorporation into the Environment Agency's Open Data mapping products.
Information Warnings	Please be aware that model data is not raw, factual or measured but comprises of estimations or modelled results based on the data available to us. The maps provided are to be used in conjunction with the **Datasheet**. Please read the Datasheet and take note of information contained within the **'Important Information'** section.
Attribution	Contains Environment Agency information © Environment Agency and/or database rights. May contain Ordnance Survey data © Crown copyright 2017 Ordnance Survey 100024198.

Flood Map for Planning (Rivers and Sea)

The Flood Map for Planning (Rivers and Sea) can be viewed and downloaded as a PDF file on GOV.UK by following this link: [redacted]

Long Term Flood Risk Information

Long term flood risk mapping including: ***Risk of Flooding from Rivers or the Sea***, ***Flood Risk from Surface Water*** and ***Flood Risk from Reservoirs*** can be viewed on GOV.UK: [redacted]

Attribution
Data Available Online
Many of our flood datasets are available online:

- Flood Map For Planning [redacted]
- [redacted]
- [redacted]
- [redacted]

What's In Your BackYard (WIYBY) is no longer available.
Most of the data is still available via other sharing services such as [redacted] and new [redacted]. Where the datasets are no longer available as maps, you will be able to download and use within specialist applications.

To find out all the services the Environment Agency have available, please click [redacted]

For any other enquiries please send your request to us at: [redacted].

East Anglia Area
Ipswich Office, Iceni House, Cobham Road, Ipswich, Suffolk, IP3 9JD
Brampton Office, Bromholme Lane, Brampton, Huntingdon, PE28 4NE
General Enquiries: 03708 506506

[redacted]

Additional information

Please be aware that we now charge for planning advice provided to developers, agents and landowners. If you would like advice to inform a future planning application for this site then please complete our [redacted] and email it to our Sustainable Places team. [redacted] They will initially provide you with a free response identifying the following:

- the environmental constraints affecting the proposal;
- the environmental issues raised by the proposal;
- the information we need for the subsequent planning application to address the issues identified and demonstrate an acceptable development;
- any required environmental permits.

If you require any further information from them (for example, a meeting or the detailed review of a technical document) they will need to set up a charging agreement. Further information can be found on our [redacted]

Please note we have published revised climate change allowances, which are available online. These new allowances will need to be reflected in your Flood Risk Assessment. If you want to discuss this please call our Sustainable Places team on 0203 025 5475.

Please get in touch if you have any further queries or contact us within two months if you'd like us to review the information we have sent.

Yours sincerely

[redacted]

Tim Prior

Customers and Engagement Officer

[redacted]

East Anglia Area
Ipswich Office, Iceni House, Cobham Road, Ipswich, Suffolk, IP3 9JD
Brampton Office, Bromholme Lane, Brampton, Huntingdon, PE28 4NE
General Enquiries: 03708 506506
[redacted]

Datasheet - Product 4

24 June 2021

Reference Number	222441
Site	Burwell Substation & site adjacent to the River Lark near West Row / Worlington
Customer	Christopher Brandon
NGR	TL6651675068

This datasheet provides supporting information for your Product 4. It will be clearly indicated if we are unable to provide information to fulfil any part of your request.

Model Summary

Model Name	Model Code
Cam Phase 2	EA052344
Cam Phase 2	EA052344

Important Information

The following information should considered when using the material provided to fulfil this request.

Information	
Limited Modelled Extents Provided	We have only provided a limited number of modelled flood extents for clarity. If you require further extents we will be happy to provide them.
No Product 8 Data	Unfortunately we do not have any breach data at this location.

Modelled Water Levels and Flows

The following tables provide modelled in channel water level and flow values. Values are provided for Annual Exceedence Probability (AEP) events, which is the probability of a given event occurring in any one year. This is not a return period.

The fluvial models used to produce these results are intended for strategic scale use only.

If the tables show a value of -9999, this indicates that we have no level or flow data for that particular AEP or node point.

Level Data

Level values are measured in metres above Ordnance Datum (m aOD).

All level data included are subject to standard modelling tolerance of +/-150 millimetres.

Present Day Levels

Node	Model	Easting	Northing	20%	10%	5%	4%	2%	1.33%	1%	0.5%	0.1%
LARK_15278	EA052372_001	566313	275157	2.3	2.45	2.55	2.58	2.72	2.76	2.78	2.82	2.95
LARK_15441	EA052372_001	566480	275100	2.31	2.46	2.56	2.6	2.73	2.77	2.79	2.84	2.98
LARK_15604	EA052372_001	566610	275139	2.31	2.47	2.57	2.6	2.73	2.77	2.8	2.84	2.99
LARK_15913	EA052372_001	566790	275033	2.33	2.49	2.59	2.62	2.75	2.79	2.81	2.86	3.02
LARK_17135D	EA052372_001	567725	274807	2.43	2.59	2.68	2.71	2.82	2.86	2.88	2.93	3.16
WE1150	EA052344	558138	266913	1.83	1.88	1.99	2.03	2.15	2.16	2.18	2.2	2.26
WE650	EA052344	558314	267241	1.83	1.87	1.99	2.02	2.15	2.16	2.17	2.19	2.24
WE800	EA052344	558205	267141	1.83	1.87	1.99	2.02	2.15	2.16	2.17	2.19	2.25
WE950	EA052344	558112	267069	1.83	1.88	1.99	2.02	2.15	2.16	2.17	2.19	2.25

Climate Change Levels

Node	Model	Easting	Northing	1%+20%cc	1%+25%cc	1%+35%cc	1%+65%cc	0.5%+20%cc	0.1%+20%cc
LARK_15278	EA052372_001	566313	275157	2.94	-9999	-9999	-9999	-9999	-9999
LARK_15441	EA052372_001	566480	275100	2.96	-9999	-9999	-9999	-9999	-9999
LARK_15604	EA052372_001	566610	275139	2.96	-9999	-9999	-9999	-9999	-9999
LARK_15913	EA052372_001	566790	275033	2.97	-9999	-9999	-9999	-9999	-9999
LARK_17135D	EA052372_001	567725	274807	3.02	-9999	-9999	-9999	-9999	-9999
WE1150	EA052344	558138	266913	2.19	-9999	-9999	-9999	-9999	-9999
WE650	EA052344	558314	267241	2.18	-9999	-9999	-9999	-9999	-9999
WE800	EA052344	558205	267141	2.19	-9999	-9999	-9999	-9999	-9999
WE950	EA052344	558112	267069	2.19	-9999	-9999	-9999	-9999	-9999

Flow Data

Flow values are measured in cubic metres per second (cumecs - m3/s).

Present Day Flows

Node	Model	Easting	Northing	20%	10%	5%	4%	2%	1.33%	1%	0.5%	0.1%
LARK_15278	EA052372_001	566313	275157	9.81	11.76	13.03	13.4	14.77	15.6	16.14	18.62	26.79
LARK_15441	EA052372_001	566480	275100	6.49	7.71	8.12	8.32	8.88	9.05	9.28	9.64	16.92
LARK_15604	EA052372_001	566610	275139	6.49	7.71	8.12	8.31	8.87	9.05	9.28	9.64	16.91
LARK_15913	EA052372_001	566790	275033	6.5	7.71	8.11	8.31	8.87	9.05	9.28	9.64	16.01
LARK_17135D	EA052372_001	567725	274807	6.46	7.65	8.01	8.2	8.74	8.95	9.06	9.37	16.55
WE1150	EA052344	558138	266913	0.12	0.19	0.27	0.3	0.41	0.48	0.53	0.69	1
WE650	EA052344	558314	267241	0.2	0.24	0.26	0.28	0.4	0.47	0.52	0.68	1
WE800	EA052344	558205	267141	0.2	0.23	0.26	0.29	0.41	0.47	0.52	0.69	1
WE950	EA052344	558112	267069	0.17	0.21	0.27	0.29	0.41	0.47	0.53	0.69	1

Climate Change Flows

Node	Model	Easting	Northing	1%+20%cc	1%+25%cc	1%+35%cc	1%+65%cc	0.5%+20%cc	0.1%+20%cc
LARK_15278	EA052372_001	566313	275157	18.16	-9999	-9999	-9999	-9999	-9999
LARK_15441	EA052372_001	566480	275100	9.86	-9999	-9999	-9999	-9999	-9999
LARK_15604	EA052372_001	566610	275139	9.85	-9999	-9999	-9999	-9999	-9999
LARK_15913	EA052372_001	566790	275033	9.7	-9999	-9999	-9999	-9999	-9999
LARK_17135D	EA052372_001	567725	274807	9.39	-9999	-9999	-9999	-9999	-9999
WE1150	EA052344	558138	266913	0.64	-9999	-9999	-9999	-9999	-9999
WE650	EA052344	558314	267241	0.64	-9999	-9999	-9999	-9999	-9999
WE800	EA052344	558205	267141	0.64	-9999	-9999	-9999	-9999	-9999
WE950	EA052344	558112	267069	0.64	-9999	-9999	-9999	-9999	-9999

Recorded Flood Events

Where included, the Recorded Flood Event Outlines map provides an indication of areas which have flooded. Not all properties shown to be within the outline will have flooded.

Flood Event	Start	End	Source	Cause
1951	01/01/1951	21/04/1951	Unknown	Unknown
March 1947	13/03/1947	17/03/1947	Main River	Channel Capacity Exceeded (no raised defences)

General Information

Flood Map for Planning (Rivers and Sea)

The Flood Map for Planning (Rivers and Sea) indicates the area at risk of flooding for a flood event with a 0.5% chance of occurring in any year for flooding from the sea, or a 1% chance of occurring in any year for fluvial (river) flooding (Flood Zone 3).

It also shows the extent of the Extreme Flood Outlines (Flood Zone 2) which represents the extent of a flood event with a 0.1% chance of occurring in any year, or the highest recorded historic extent if greater. The Flood Zones refer to the land at risk of flooding and do not refer to individual properties.

The Flood Map for Planning (Rivers and Sea) can be viewed and downloaded as a PDF file on GOV.UK by following this link [redacted] or downloaded in GIS format under an open data licence from the following address: [redacted]

The Flood Map is updated on a quarterly basis to account for any amendments required.

Surface Water, Ordinary Watercourses and Groundwater Flooding

Lead Local Flood Authorities (LLFA) are responsible for managing local flood risk from ordinary watercourses, surface water flooding and groundwater flooding. You should check with the LLFA as they may have more up to date information regarding this type of flooding.

The Risk of Flooding from Surface Water Flood Map can be viewed and downloaded as a PDF file on GOV.UK by following this link: [redacted]

Information on how to reduce the impact of flooding from groundwater can be found online by the following link:
https://www.gov.uk/government/publications/flooding-from-groundwater

Flooding from Reservoirs

The Risk of Flooding from Reservoirs Flood Map can be viewed and downloaded as a PDF file on GOV.UK by following this link [redacted]

Sewer Flooding

Your local water company may have information on sewage flooding in your area of interest.

Areas Benefitting from Defences

Areas Benefitting from Defences show the area benefiting from defences from a 1 in 100 (1% AEP) year fluvial event or a 1 in 200 (0.5% AEP) tidal/coastal event.

The associated dataset can be downloaded in GIS from the following link: h[redacted]

Product 4 Request							
Unique ID (Label)	Easting	Northing	Standard of Protection (Return Period)	Overall Condition Grade	Statutory Defence Level	Upstream Crest Level	Downstream Crest Level
Burwell Lode							
105439	557246	268497	1 in 50 (2%)	3	Not Known	2.93	2.79
105440	558360	267839	1 in 50 (2%)	3	Not Known	3.72	2.93
105441	558514	267794	1 in 50 (2%)	3	Not Known	4.81	3.72
Burwell Weirs					Not Known		
84318	558560	267769	1 in 50 (2%)	3	Not Known	Not Known	Not Known
184372	558556	267750	Not Known	2	Not Known	Not Known	Not Known
184373	558509	267523	Not Known	4	Not Known	Not Known	Not Known
184374	558367	267320	Not Known	3	Not Known	Not Known	Not Known
184375	558162	267071	Not Known	4	Not Known	Not Known	Not Known
184376	558122	266682	Not Known	3	Not Known	Not Known	Not Known
184377	558001	266421	Not Known	3	Not Known	Not Known	Not Known

Defended Climate Change Model Flood Outlines centred on Sunnica Energy Farm

NGR TL5788767208
Ref 222441
Created 24/06/2021

Environment Agency
Bromholme Lane,
Brampton,
Cambridgeshire
PE28 4NE

Environment Agency

Legend

- Site
- Main river
- 1% AEP + 20CC

0 0.25 0.5 1 km

Information

Model Tolerance - Any data included in this product is subject to a standard modelling tollerance of +/- 150mm.The fluvial models used to produce these results are intended for strategic scale use only.

Flood Risk Assessments - The Environment Agency recommends any Flood Risk Assessment should only consider these results in the context of a site specific assessment.

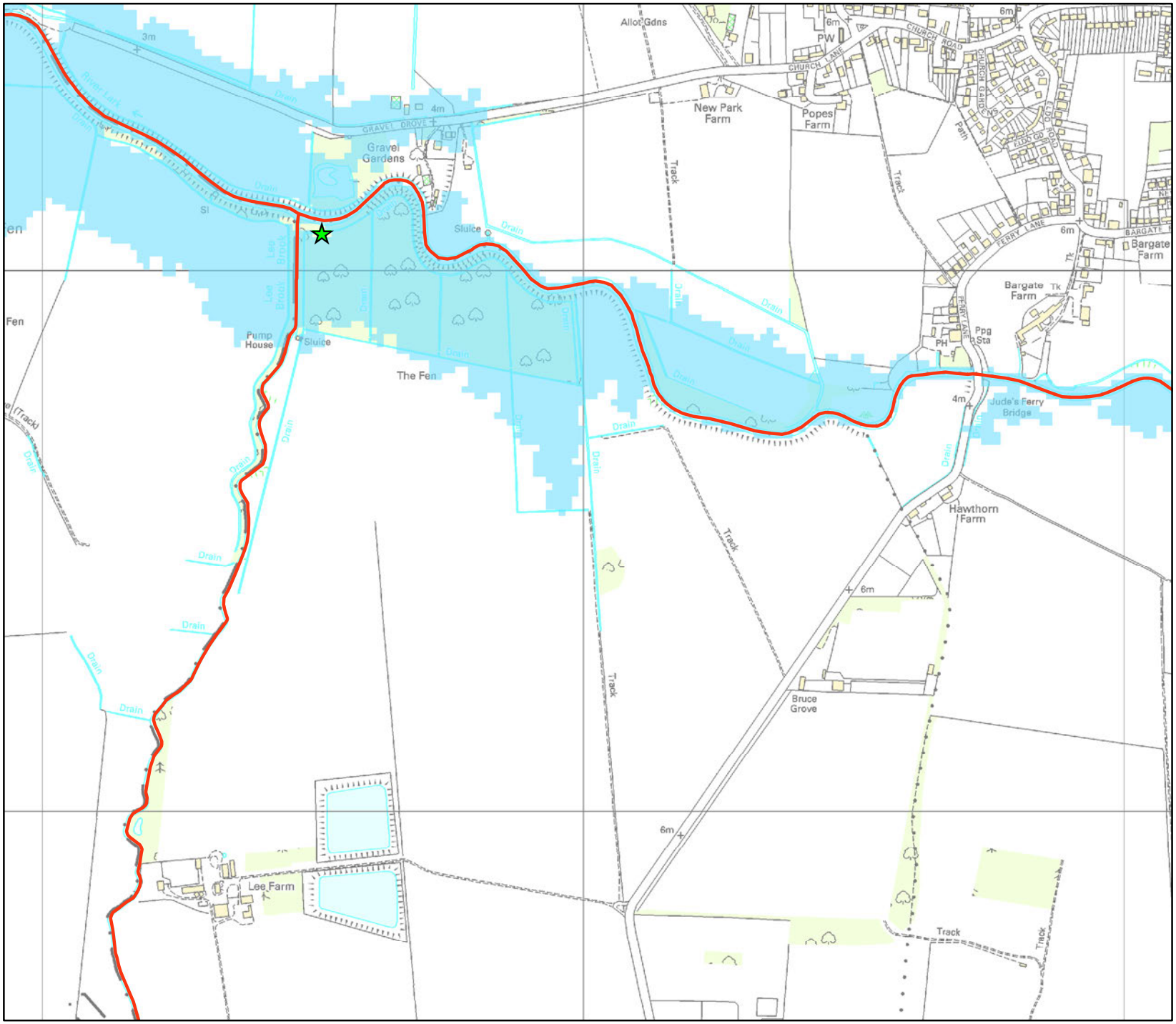
AEP - Annual Exceedance Probability - The probability of a given event occurring in any one year. Please note this is not a return period.

Strategic Scale Model - This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences if present.

Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY Tel: 03708 506 506 (Mon-Fri 8-6).
Email: enquiries@environment-agency.gov.uk

Defended Climate Change Model Flood Outlines centred on Sunnica Energy Farm

NGR TL6651675068
Ref 222441
Created 24/06/2021



Environment Agency
Bromholme Lane,
Brampton,
Cambridgeshire
PE28 4NE

Environment Agency

Legend

- Site
- Main river
- 1% AEP + 20% climate change

0 0.125 0.25 0.5 km

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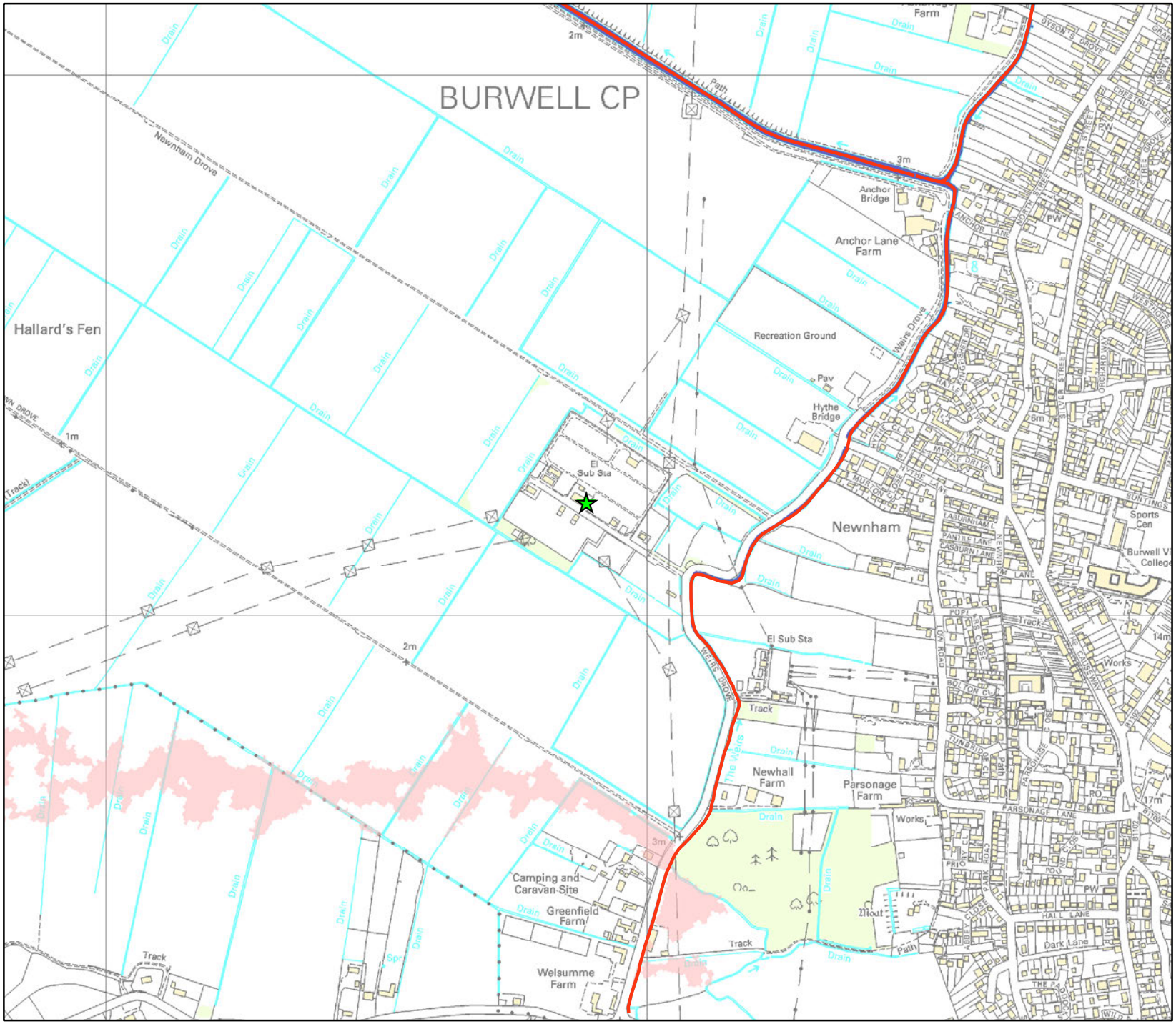

Environment Agency
Bromholme Lane,
Brampton,
Cambridgeshire
PE28 4NE

Environment Agency

Legend

- Site
- Main river
- 5% AEP
- 1% AEP
- 0.1% AEP

0 0.125 0.25 0.5 km

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Modelled Node Point Locations centred on Sunnica Energy Farm

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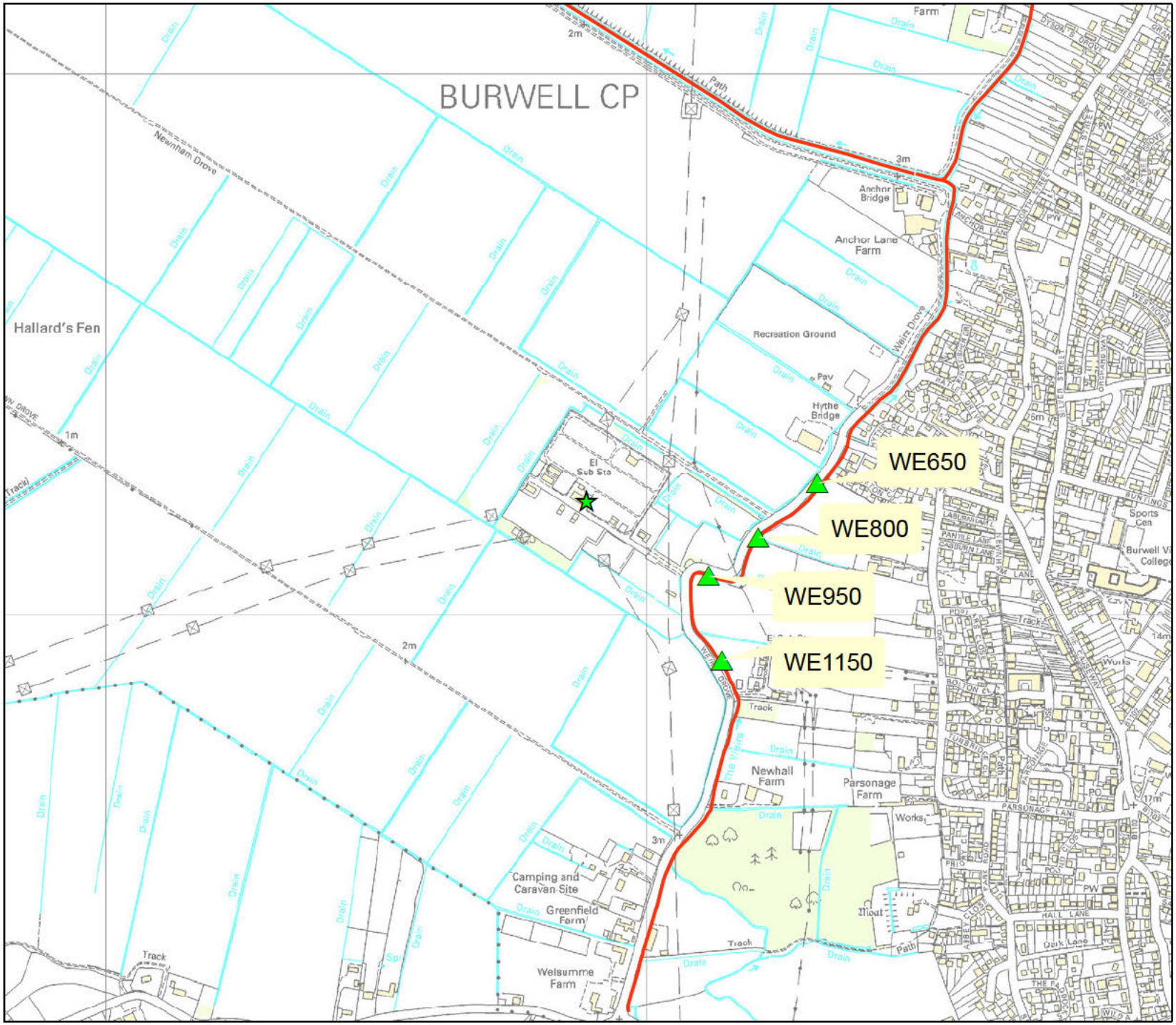

Environment Agency
Bromholme Lane,
Brampton,
Cambridgeshire
PE28 4NE

Environment Agency

Legend

- Site
- Node Points selection
- Main river

0 0.125 0.25 0.5 km

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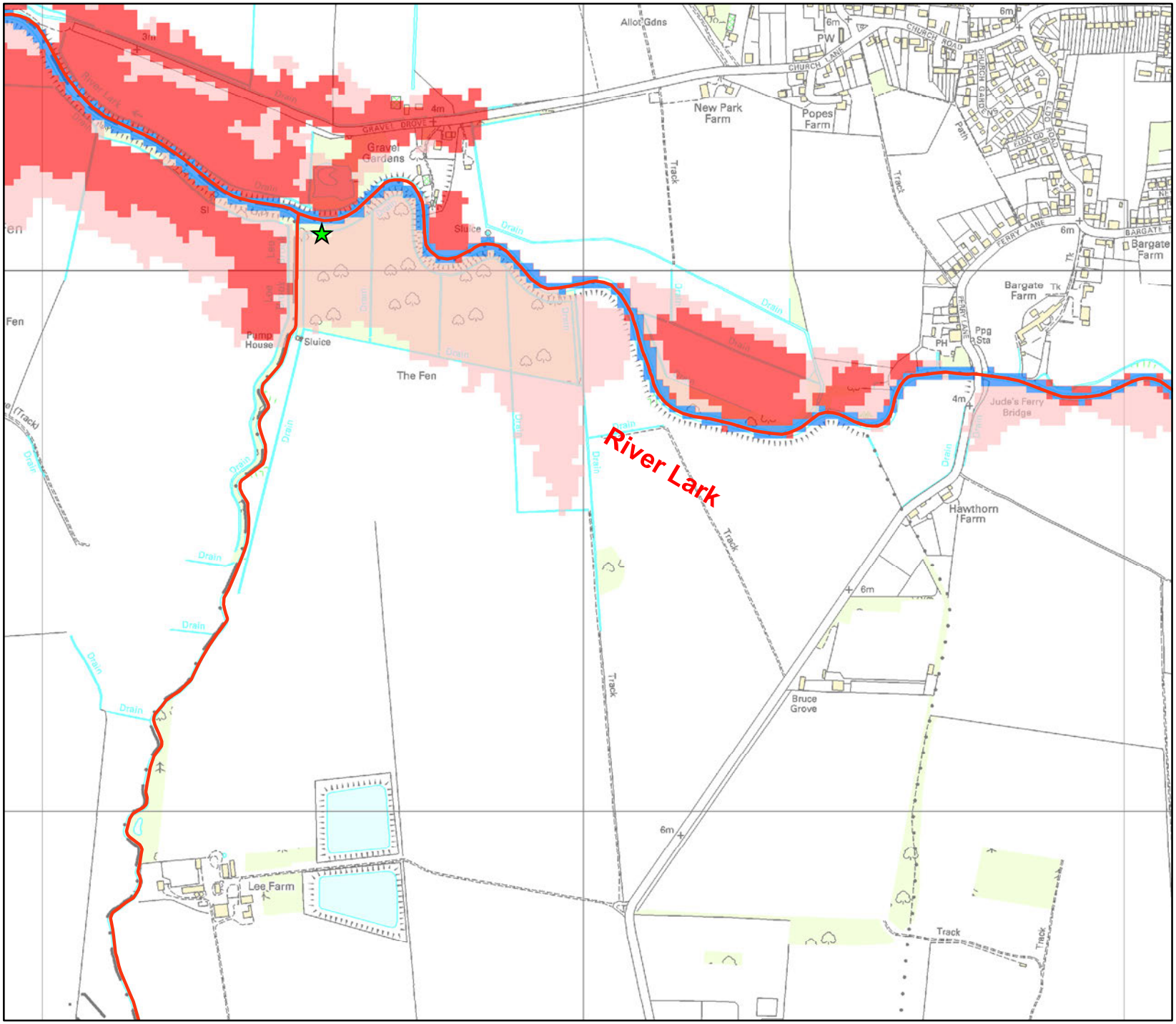

Environment Agency
Bromholme Lane,
Brampton,
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PE28 4NE

Environment Agency

Legend

- Site
- Main river
- 5% AEP
- 1% AEP
- 0.1% AEP

0 0.125 0.25 0.5 km

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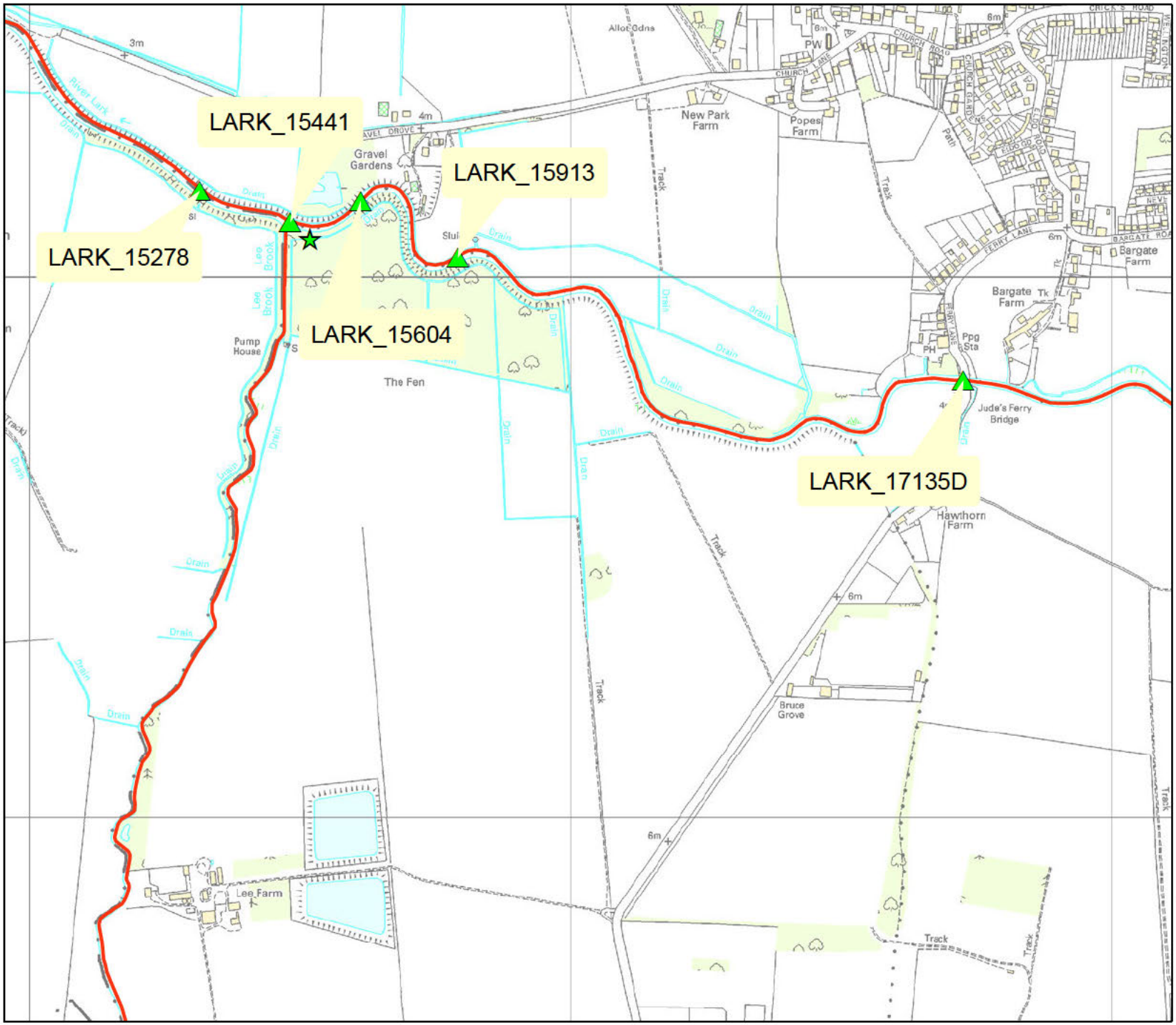

Environment Agency
Bromholme Lane,
Brampton,
Cambridgeshire
PE28 4NE

Environment Agency

Legend

- Site
- Node Point Locations selection
- Main river

0 0.125 0.25 0.5 km

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