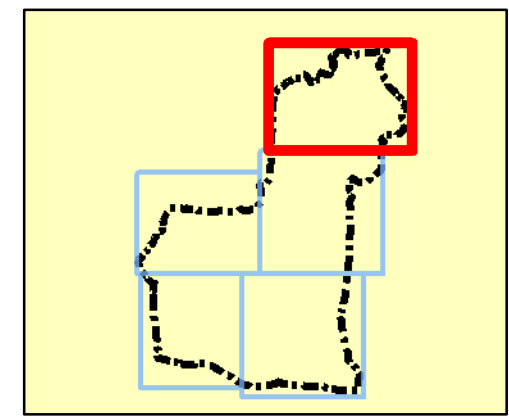


Key Plan



Legend

- Broxbourne Borough Council boundary
- Primary Watercourses in SFRA study area**
- Broxbourne Ditch
- College Brook
- Cuffley Brook
- Lee (Upper)
- Lee Navigation (Lower)
- Lee New Cut
- Lynch
- Rags Brook
- Small Lee
- Spital Brook
- Stort
- Trinity Marsh Ditch
- Turnford Brook
- Windmill Lane Ditch



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

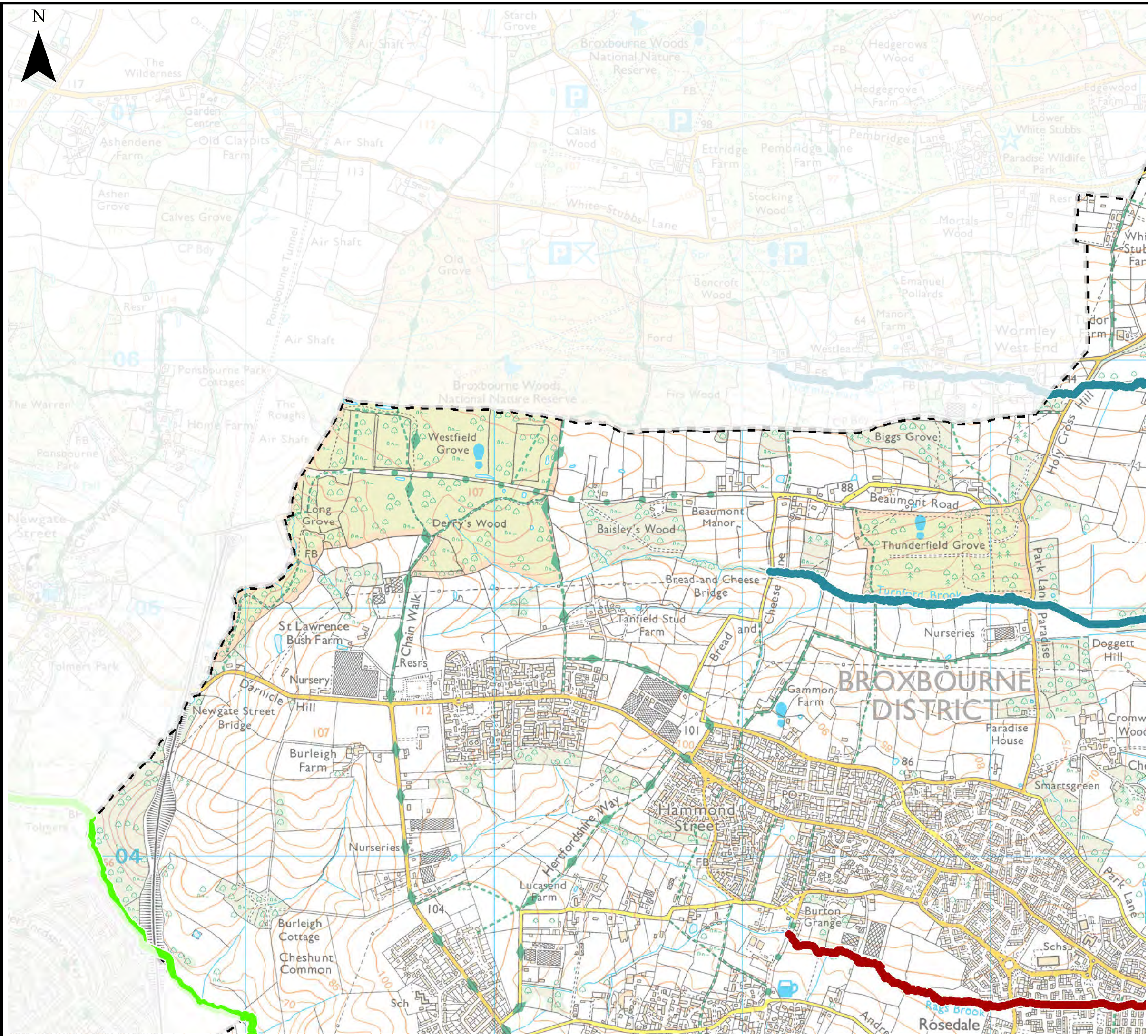
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX A
BROXBOURNE WATERCOURSES

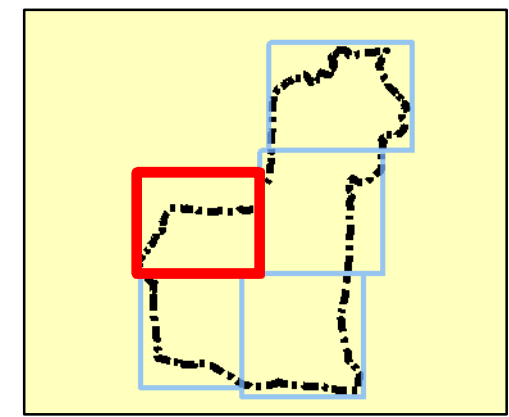
Sheet No: 1 of 5 Index Number: BBC_SFRA_1

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Key Plan



Legend

- Broxbourne Borough Council boundary
- Primary Watercourses in SFRA study area**
- Broxbourne Ditch
- College Brook
- Cuffley Brook
- Lee (Upper)
- Lee Navigation (Lower)
- Lee New Cut
- Lynch
- Rags Brook
- Small Lee
- Spital Brook
- Stort
- Trinity Marsh Ditch
- Turnford Brook
- Windmill Lane Ditch



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

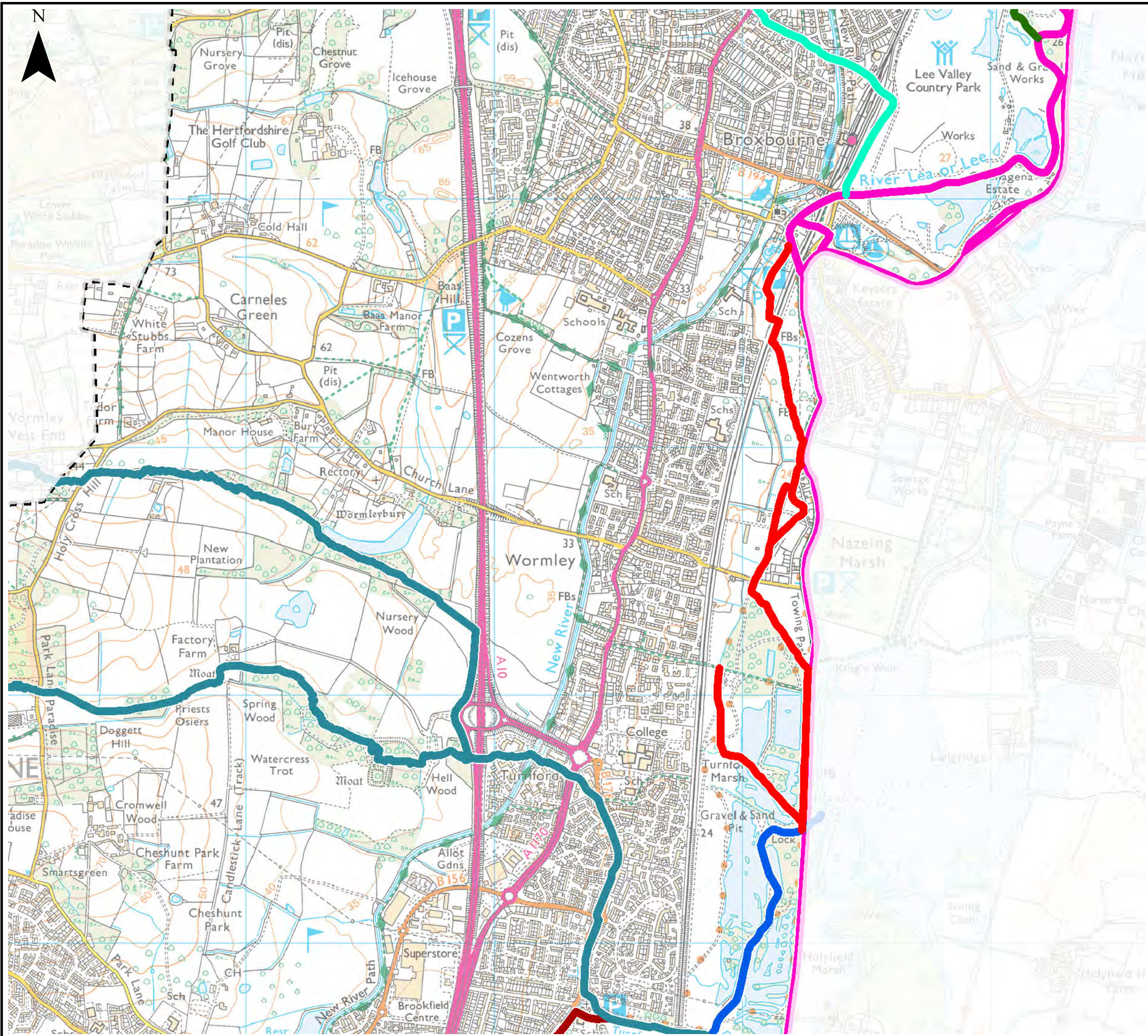
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL SFRA APPENDIX A BROXBOURNE WATERCOURSES

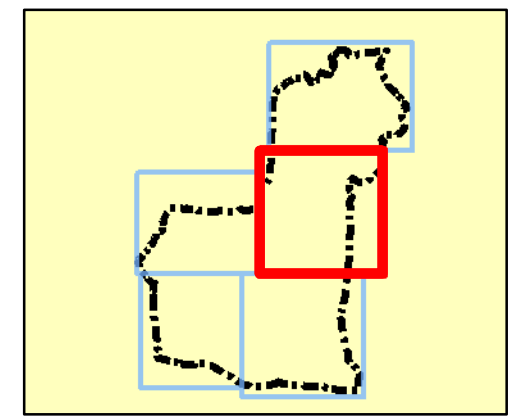
Sheet No: 2 of 5 Index Number: BBC_SFRA_2

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Key Plan



Legend

- Broxbourne Borough Council boundary
- Primary Watercourses in SFRA study area**
- Broxbourne Ditch
- College Brook
- Cuffley Brook
- Lee (Upper)
- Lee Navigation (Lower)
- Lee New Cut
- Lynch
- Rags Brook
- Small Lee
- Spital Brook
- Stort
- Trinity Marsh Ditch
- Turnford Brook
- Windmill Lane Ditch



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

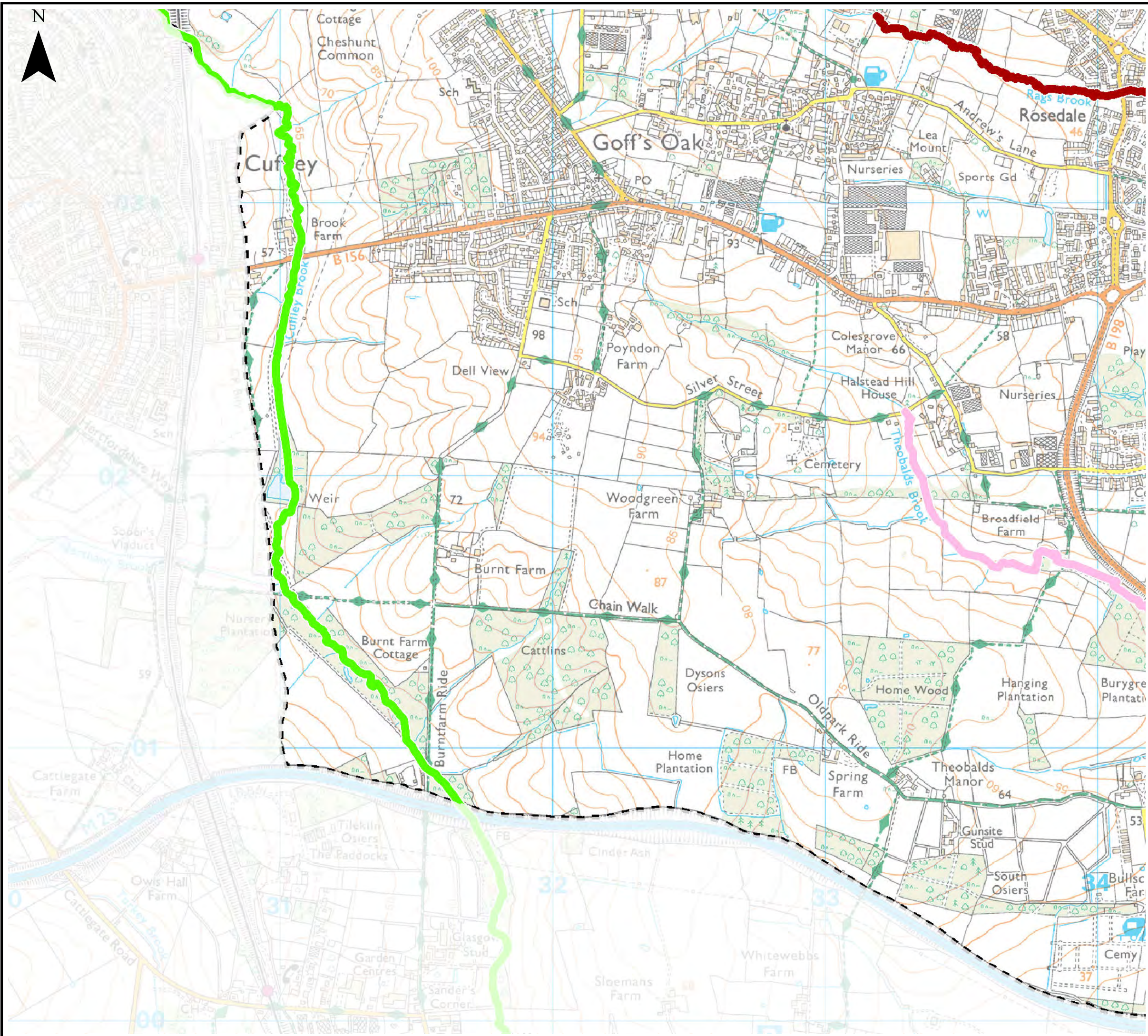
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX A
BROXBOURNE WATERCOURSES

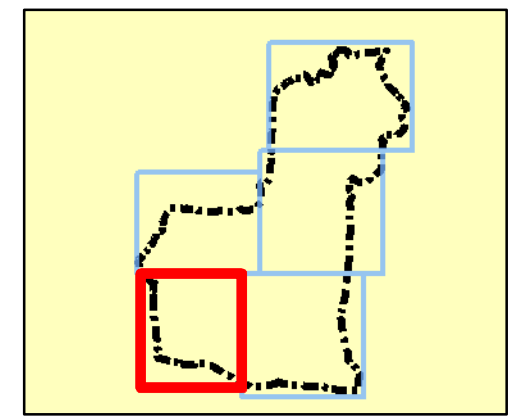
Sheet No: 3 of 5 Index Number: BBC_SFRA_3

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Key Plan



Legend

- Broxbourne Borough Council boundary
- Primary Watercourses in SFRA study area**
- Broxbourne Ditch
- College Brook
- Cuffley Brook
- Lee (Upper)
- Lee Navigation (Lower)
- Lee New Cut
- Lynch
- Rags Brook
- Small Lee
- Spital Brook
- Stort
- Trinity Marsh Ditch
- Turnford Brook
- Windmill Lane Ditch



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

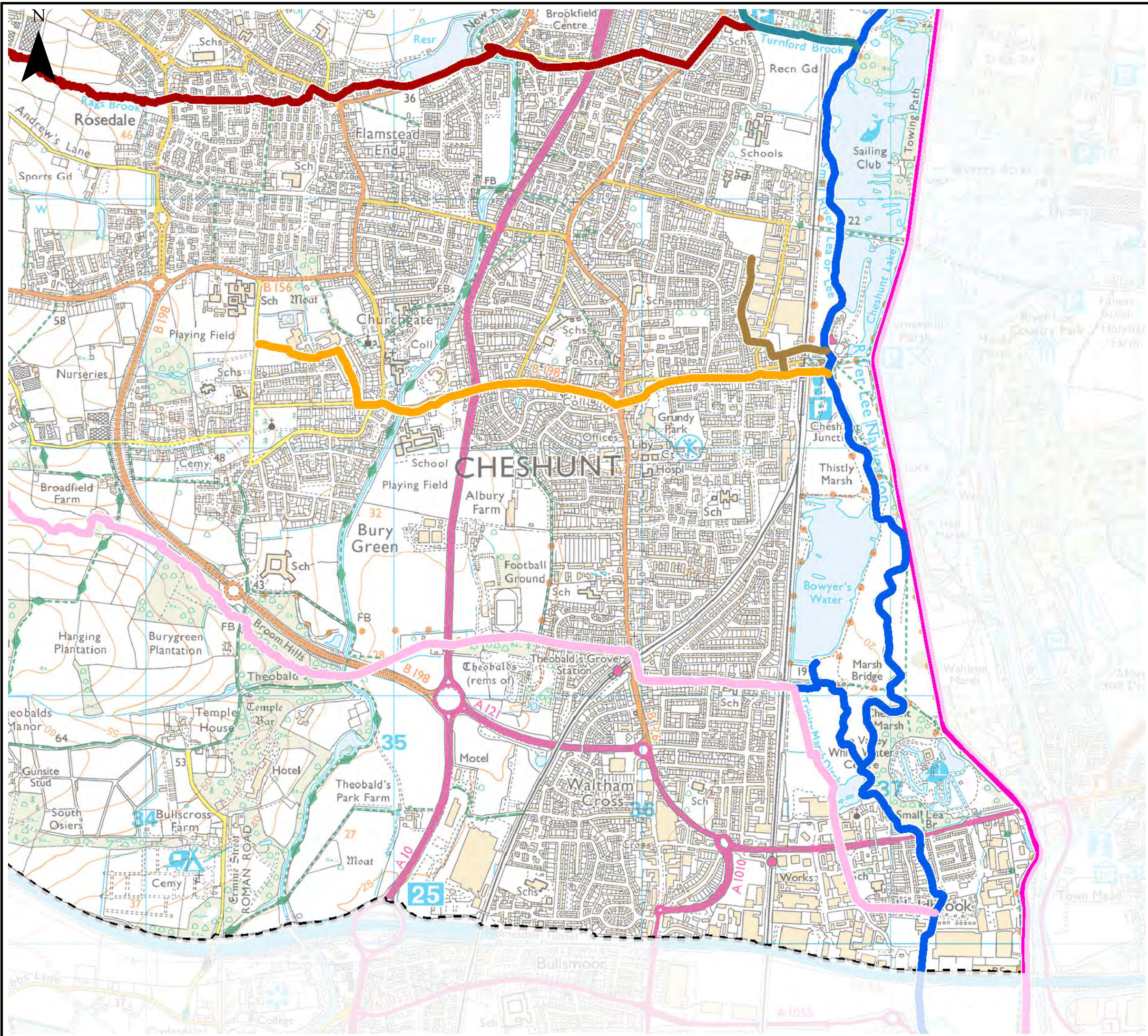
BROXBOURNE BOROUGH COUNCIL

SFRA APPENDIX A BROXBOURNE WATERCOURSES

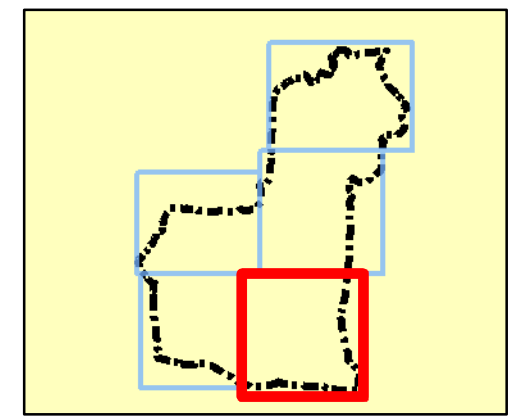
Sheet No: 4 of 5 Index Number: BBC_SFRA_4

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Key Plan



Legend

- Broxbourne Borough Council boundary
- Primary Watercourses in SFRA study area**
- Broxbourne Ditch
- College Brook
- Cuffley Brook
- Lee (Upper)
- Lee Navigation (Lower)
- Lee New Cut
- Lynch
- Rags Brook
- Small Lee
- Spital Brook
- Stort
- Trinity Marsh Ditch
- Turnford Brook
- Windmill Lane Ditch



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

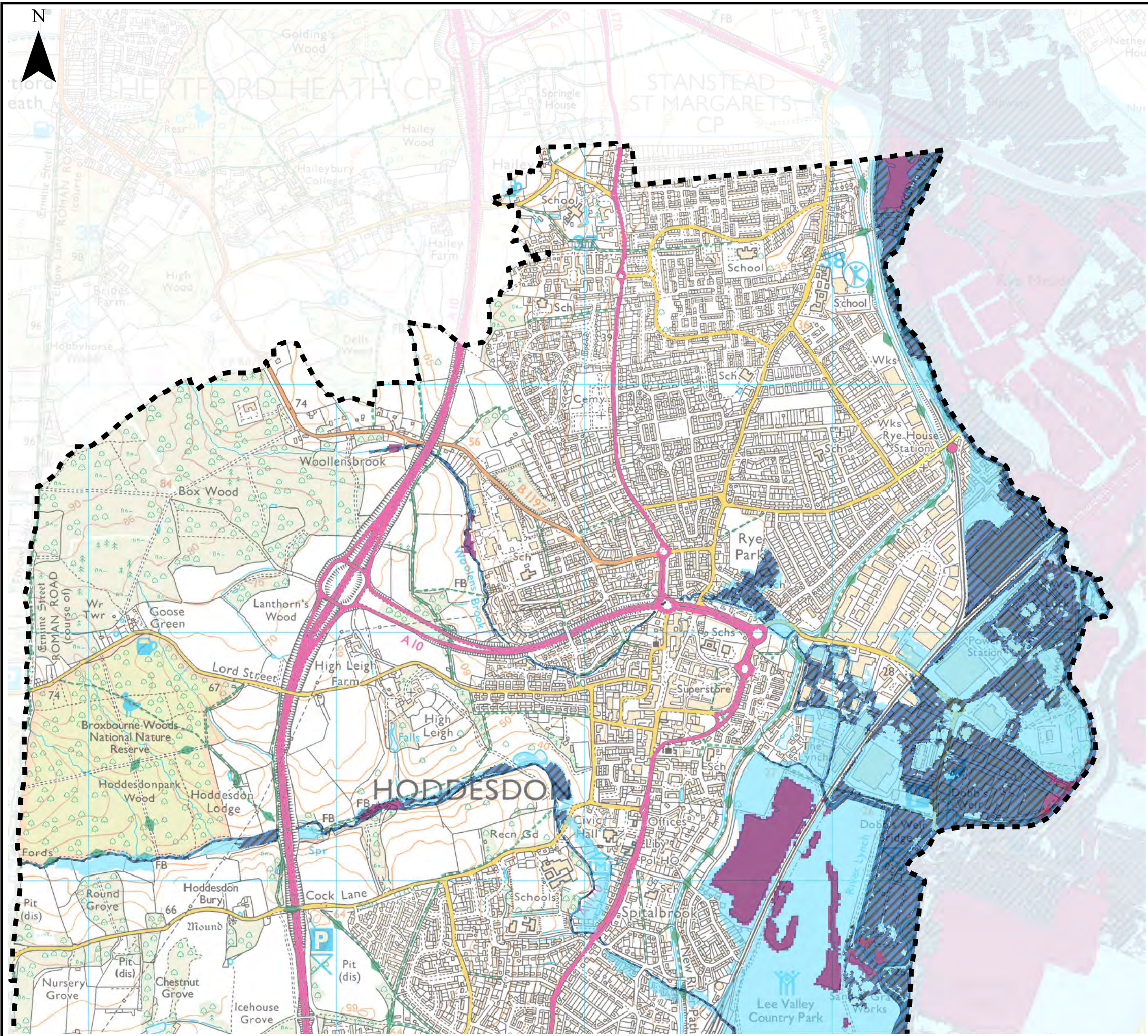
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

**BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX A
BROXBOURNE WATERCOURSES**

Sheet No: 5 of 5 Index Number: BBC_SFRA_5

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

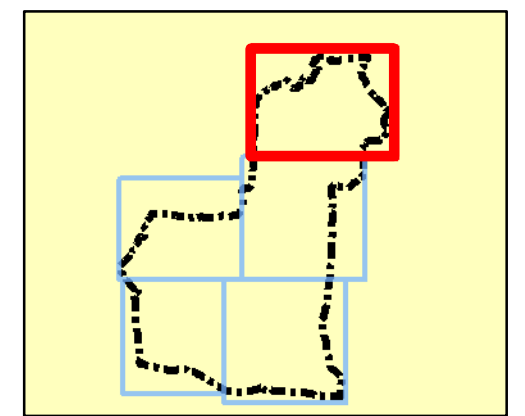
Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.

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 1 in 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 has been adopted 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.

Key Plan



Legend

- Broxbourne Borough Council boundary
 - Flood Zone 3b
 - Indicative Extent of Flood Zone 3b
 - Flood Zone 3a
 - Flood Zone 2
- 0 0.15 0.3 0.6 0.9 km

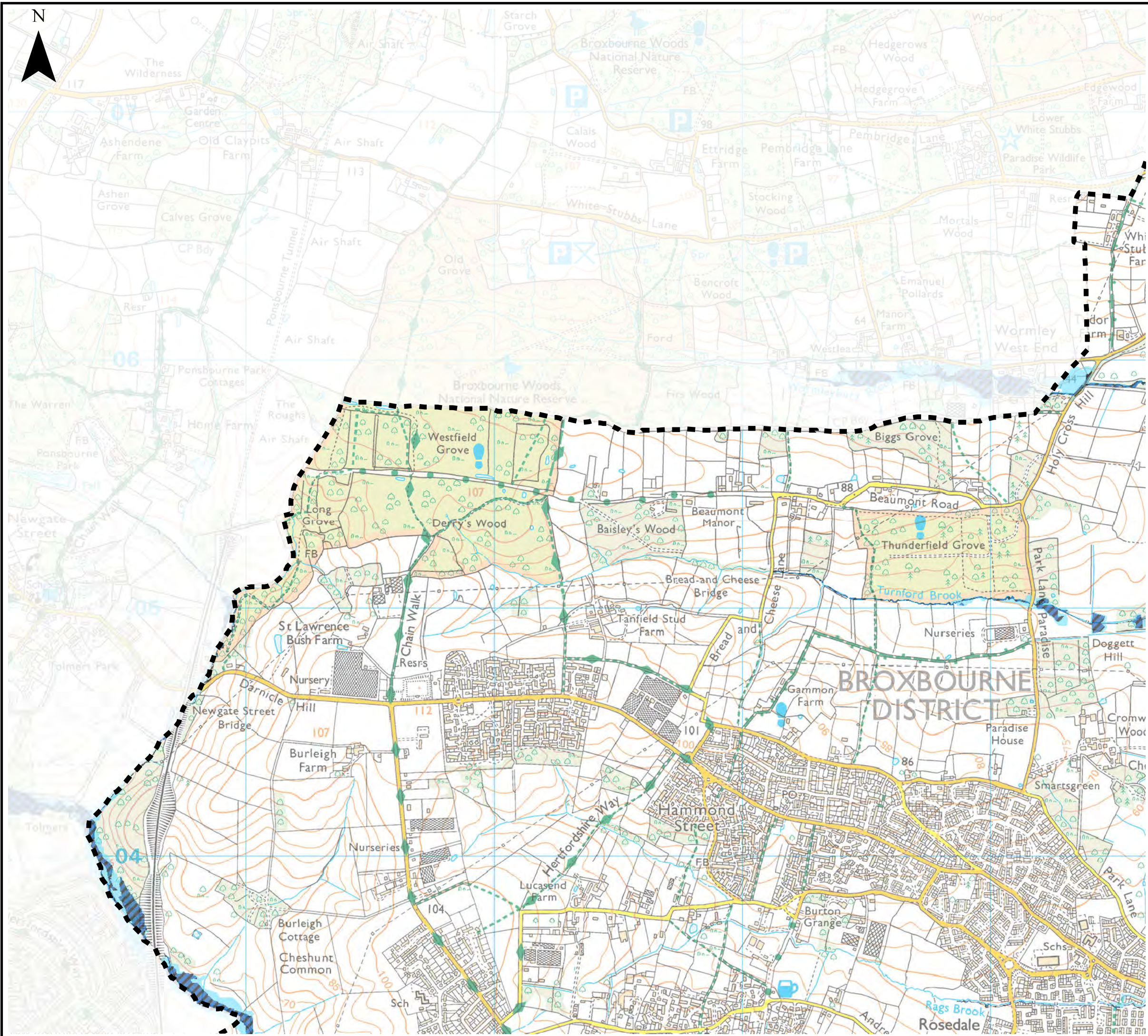
REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

**BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX B
FLOOD ZONE MAPS**

Sheet No: 1 of 5 Index Number: BBC_SFRA_1

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



Notes

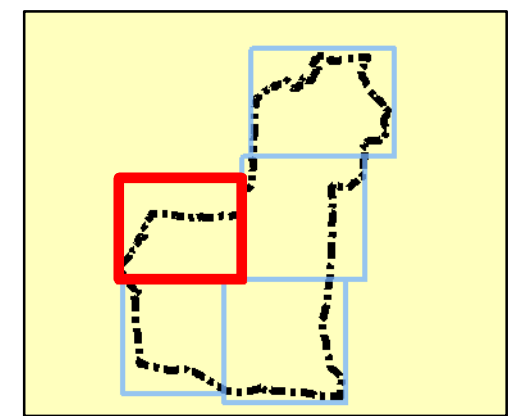
Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.

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 1 in 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 has been adopted 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.

Key Plan



Legend

- Broxbourne Borough Council boundary
 - Flood Zone 3b
 - Indicative Extent of Flood Zone 3b
 - Flood Zone 3a
 - Flood Zone 2
- 0 0.15 0.3 0.6 0.9 km

REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

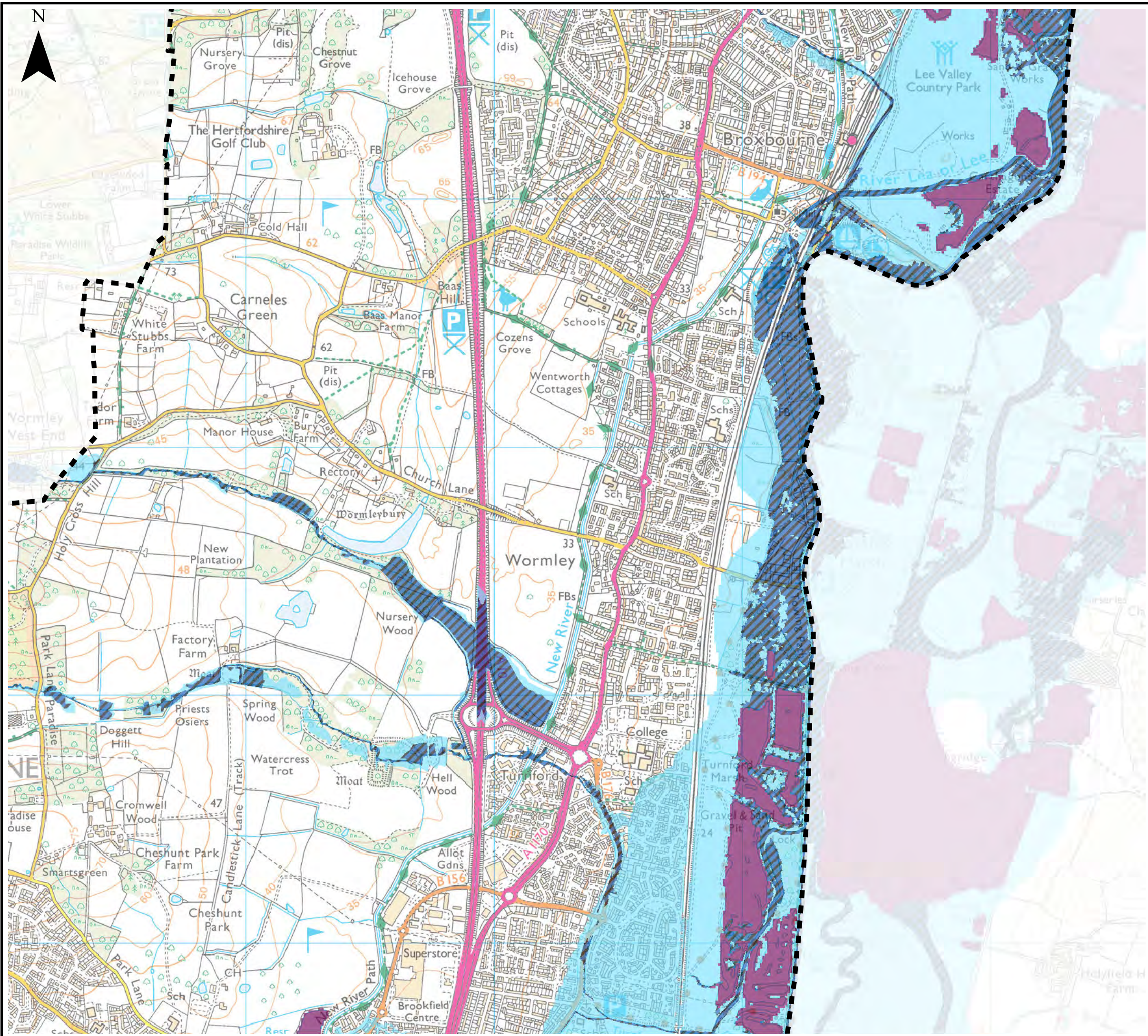
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX B
FLOOD ZONE MAPS

Sheet No: 2 of 5 Index Number: BBC_SFRA_2

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

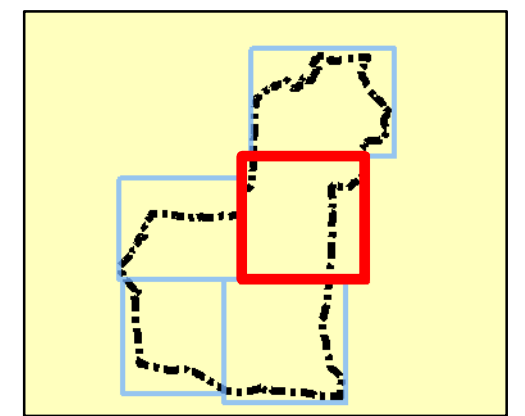
Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.

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 1 in 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 has been adopted 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.

Key Plan



Legend

- Broxbourne Borough Council boundary
- Flood Zone 3b
- Indicative Extent of Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

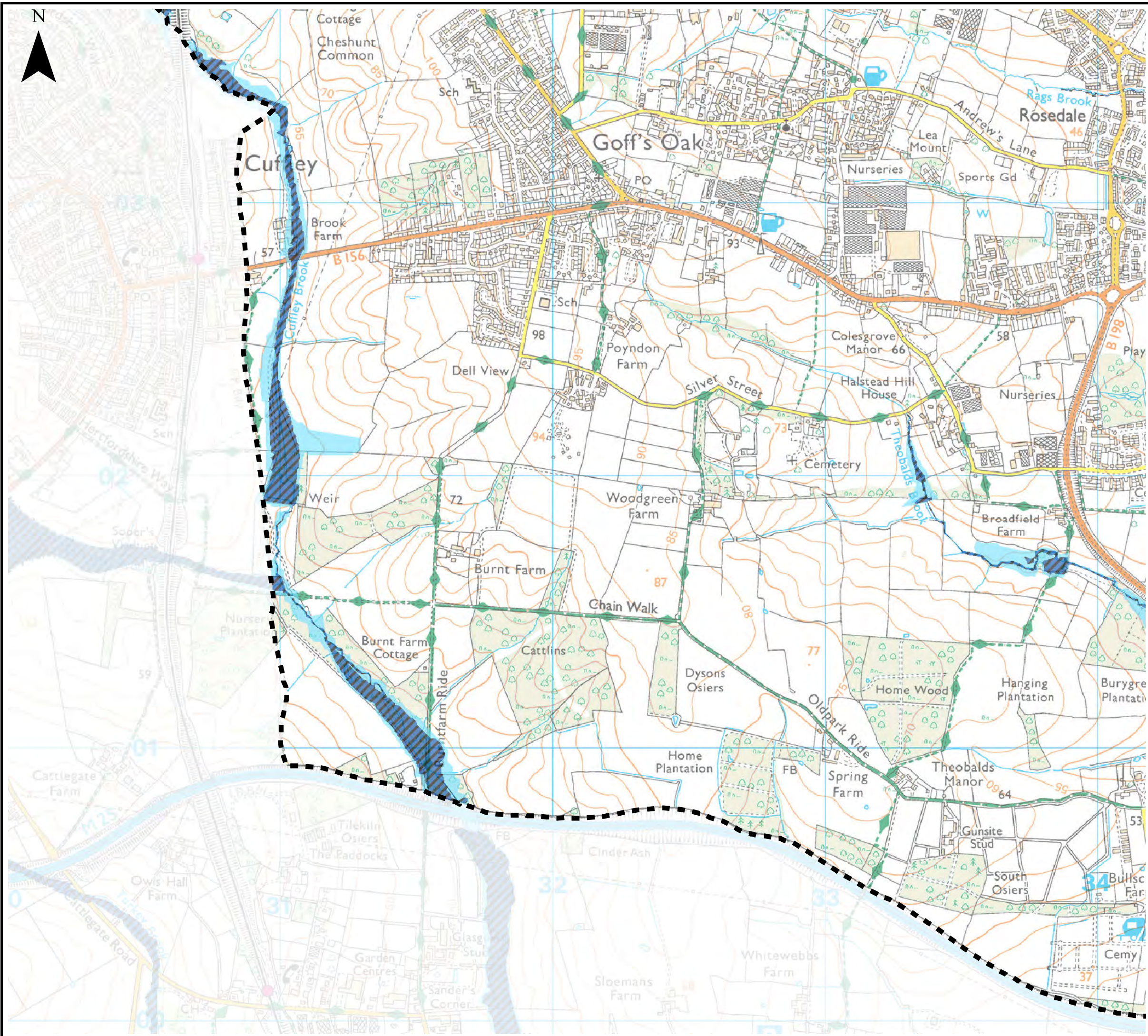
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL SFRA APPENDIX B FLOOD ZONE MAPS

Sheet No: 3 of 5 Index Number: BBC_SFRA_3

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

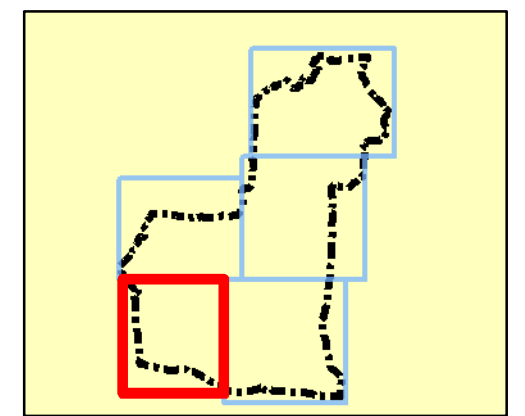
Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.

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 1 in 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 has been adopted 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.

Key Plan



Legend

- Broxbourne Borough Council boundary
- Flood Zone 3b
- Indicative Extent of Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

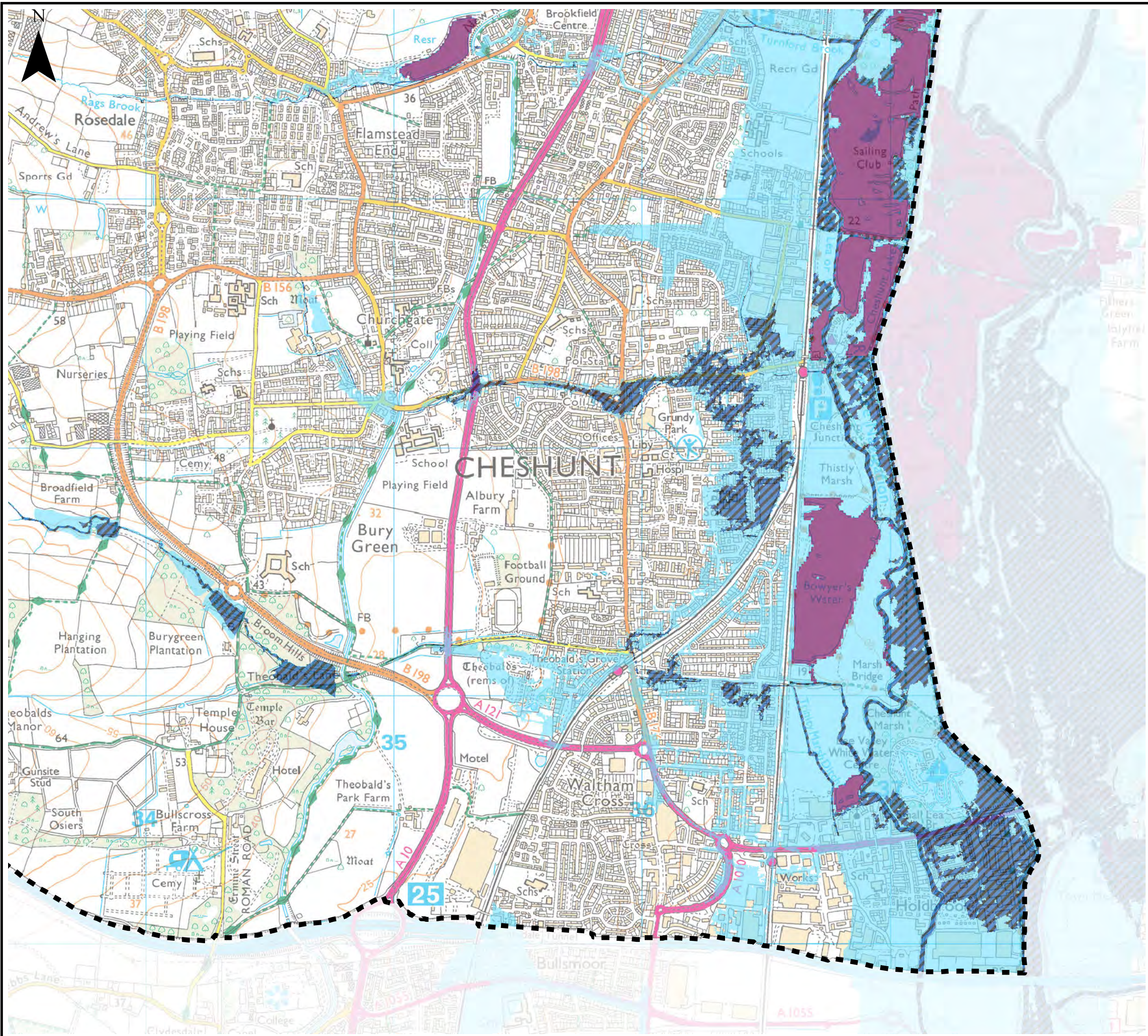
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX B
FLOOD ZONE MAPS

Sheet No: 4 of 5 Index Number: BBC_SFRA_4

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

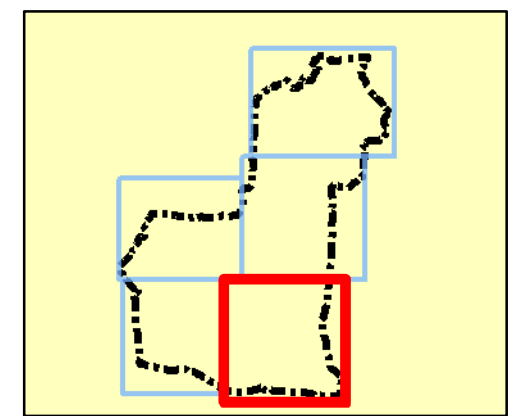
Zone 1: Comprised of land having a less than 1 in 1,000 annual probability of river or sea flooding in any year.

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 1 in 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 has been adopted 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.

Key Plan



Legend

- Broxbourne Borough Council boundary
 - Flood Zone 3b
 - Indicative Extent of Flood Zone 3b
 - Flood Zone 3a
 - Flood Zone 2
- 0 0.15 0.3 0.6 0.9 km

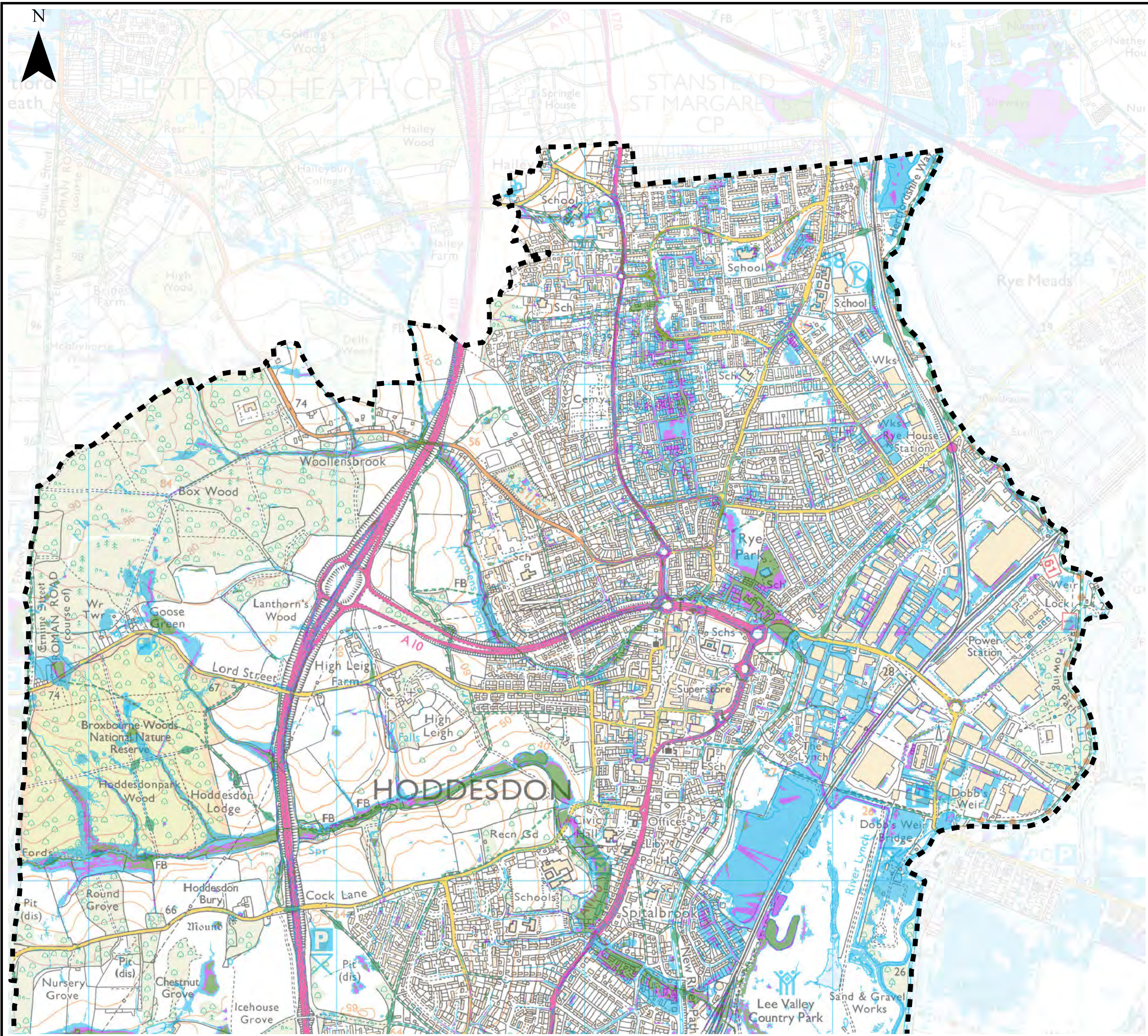
REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX B
FLOOD ZONE MAPS

Sheet No: 5 of 5 Index Number: BBC_SFRA_5

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



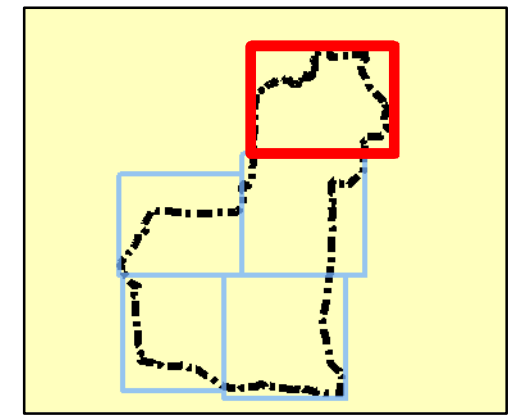
Notes

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.

Key Plan



Legend

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



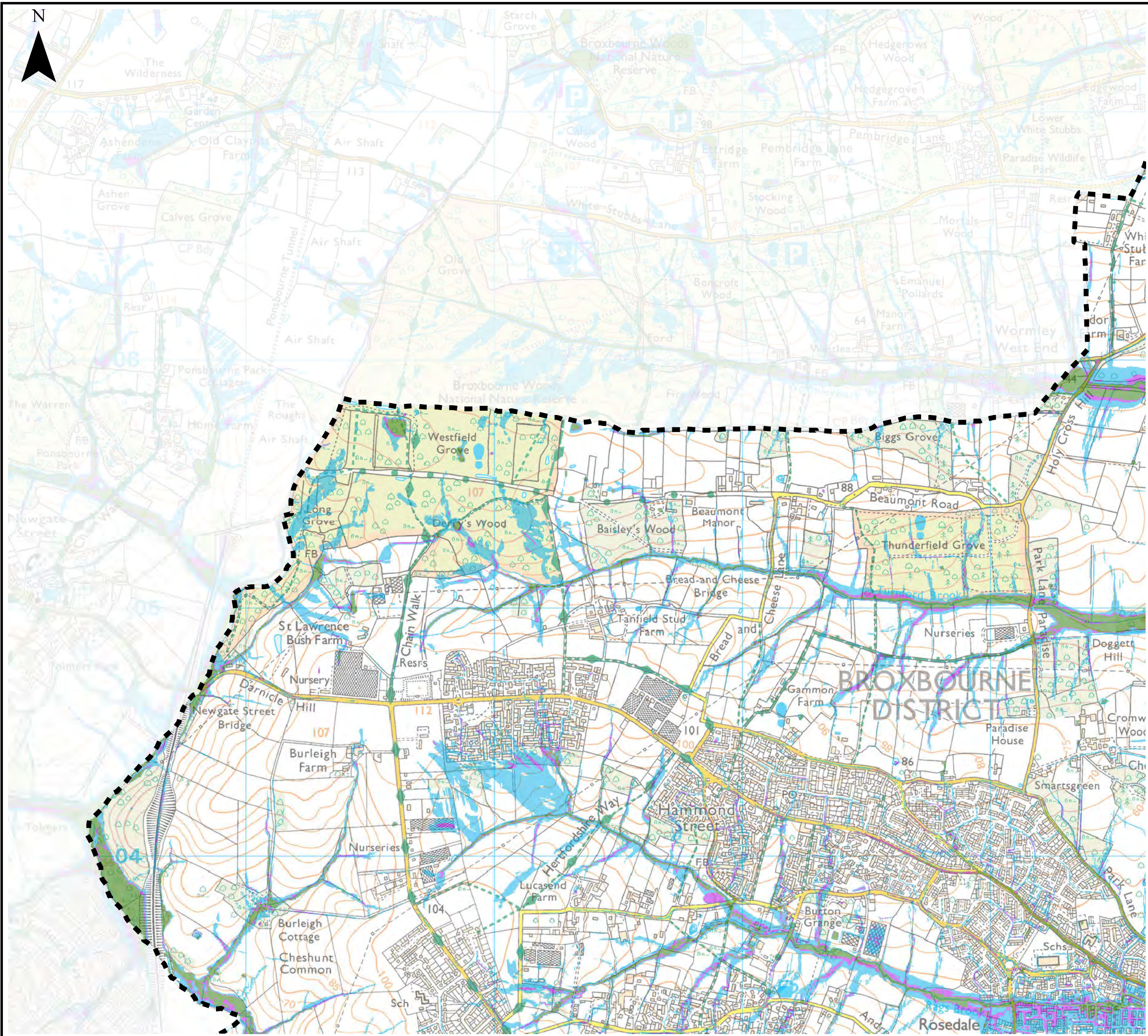
REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

**BROXBOURNE BOROUGH COUNCIL
 SFRA
 APPENDIX D
 SURFACE WATER FLOOD MAPS**

Sheet No: 1 of 5 Index Number: BBC_SFRA_1

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



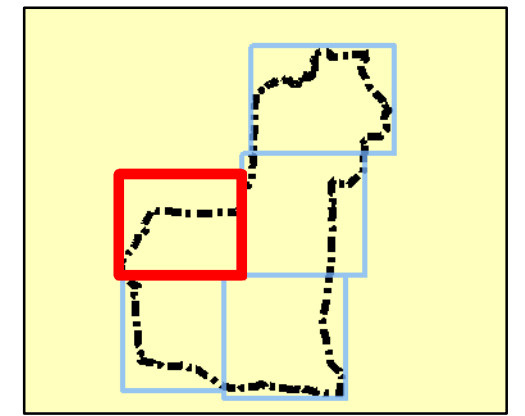
Notes

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.

Key Plan



Legend

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



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

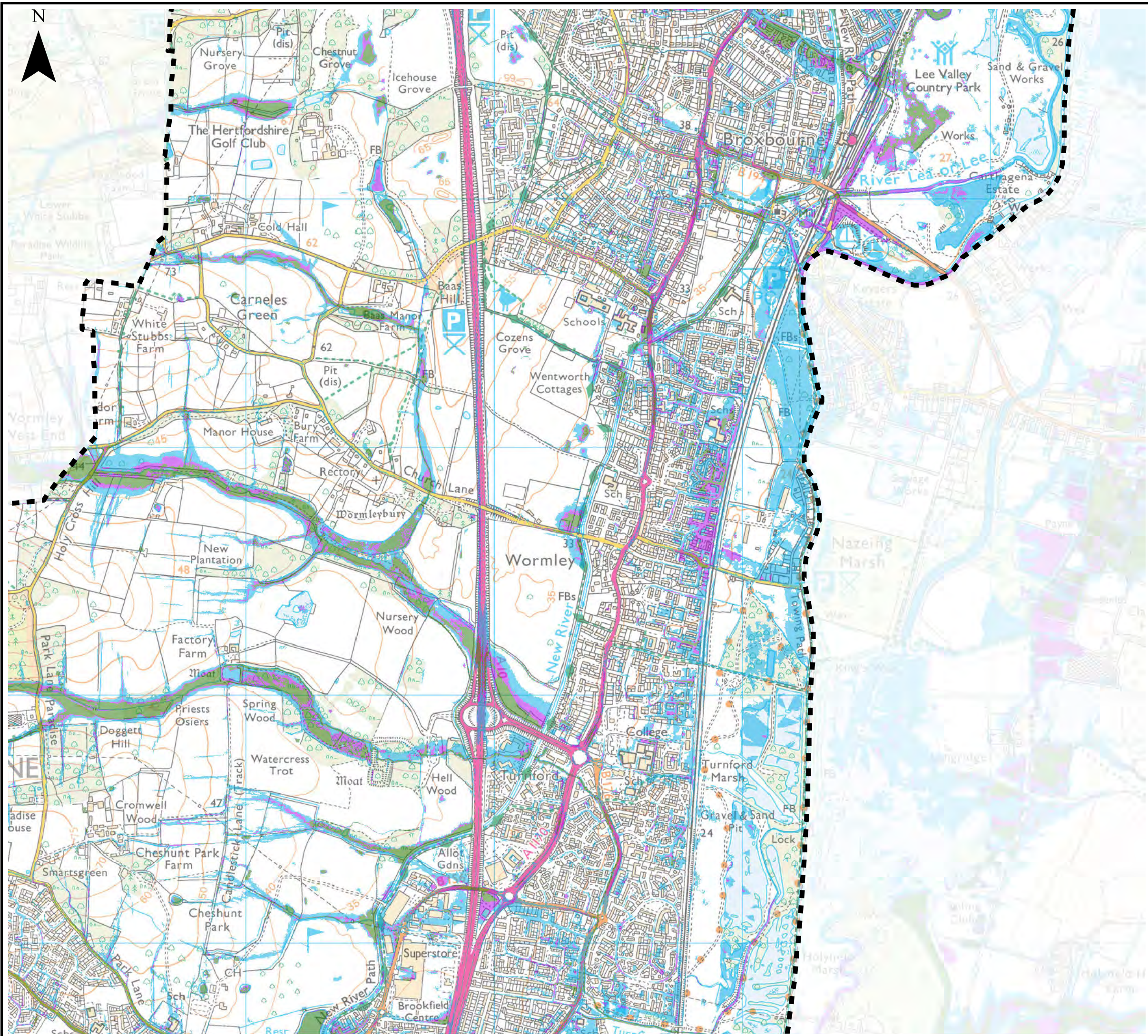
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX D
SURFACE WATER FLOOD MAPS

Sheet No: 2 of 5 Index Number: BBC_SFRA_2

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





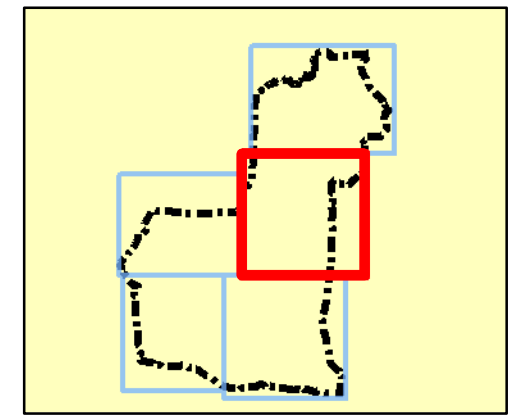
Notes

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.

Key Plan



Legend

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



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

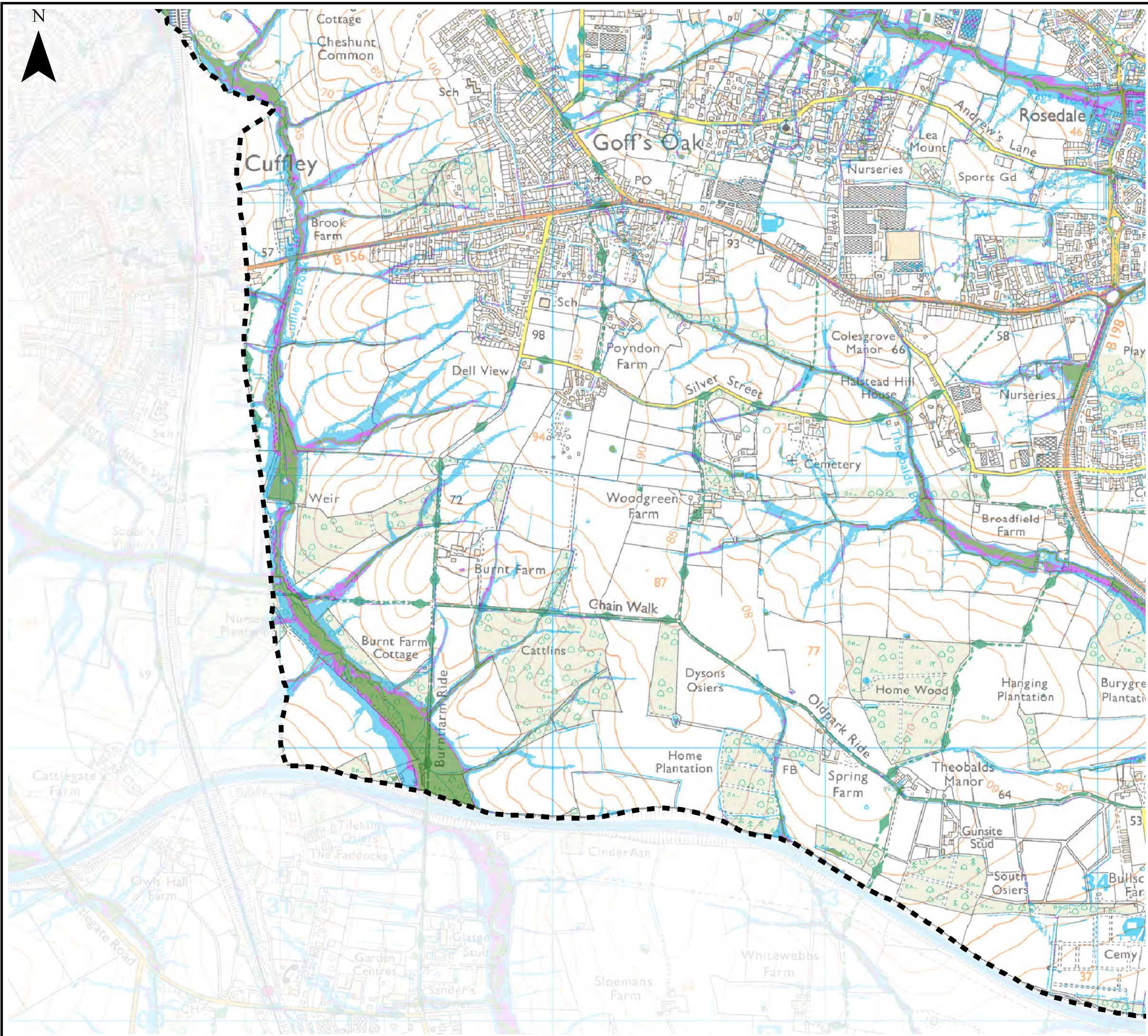
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL SFRA APPENDIX D SURFACE WATER FLOOD MAPS

Sheet No: 3 of 5 Index Number: BBC_SFRA_3

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





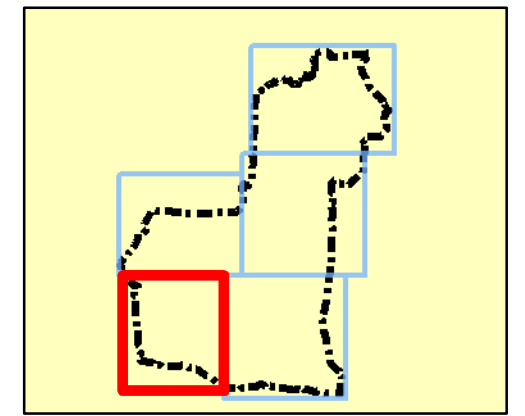
Notes

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.

Key Plan



Legend

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



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

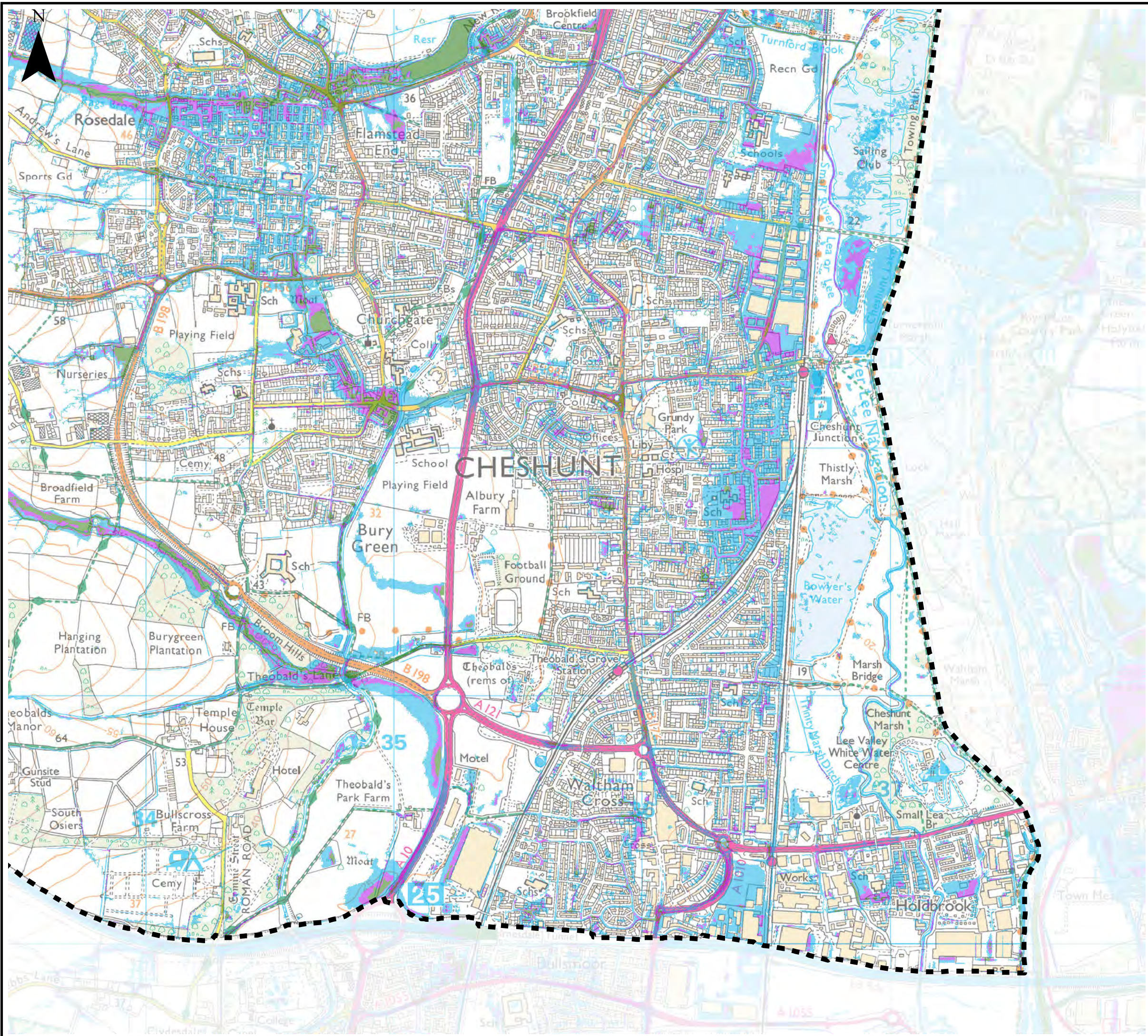
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX D
SURFACE WATER FLOOD MAPS

Sheet No: 4 of 5 Index Number: BBC_SFRA_4

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





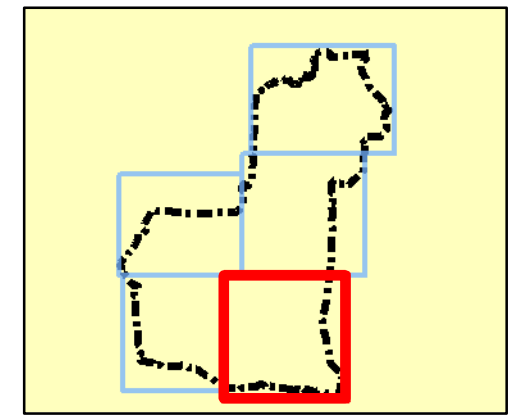
Notes

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.

Key Plan



Legend

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



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

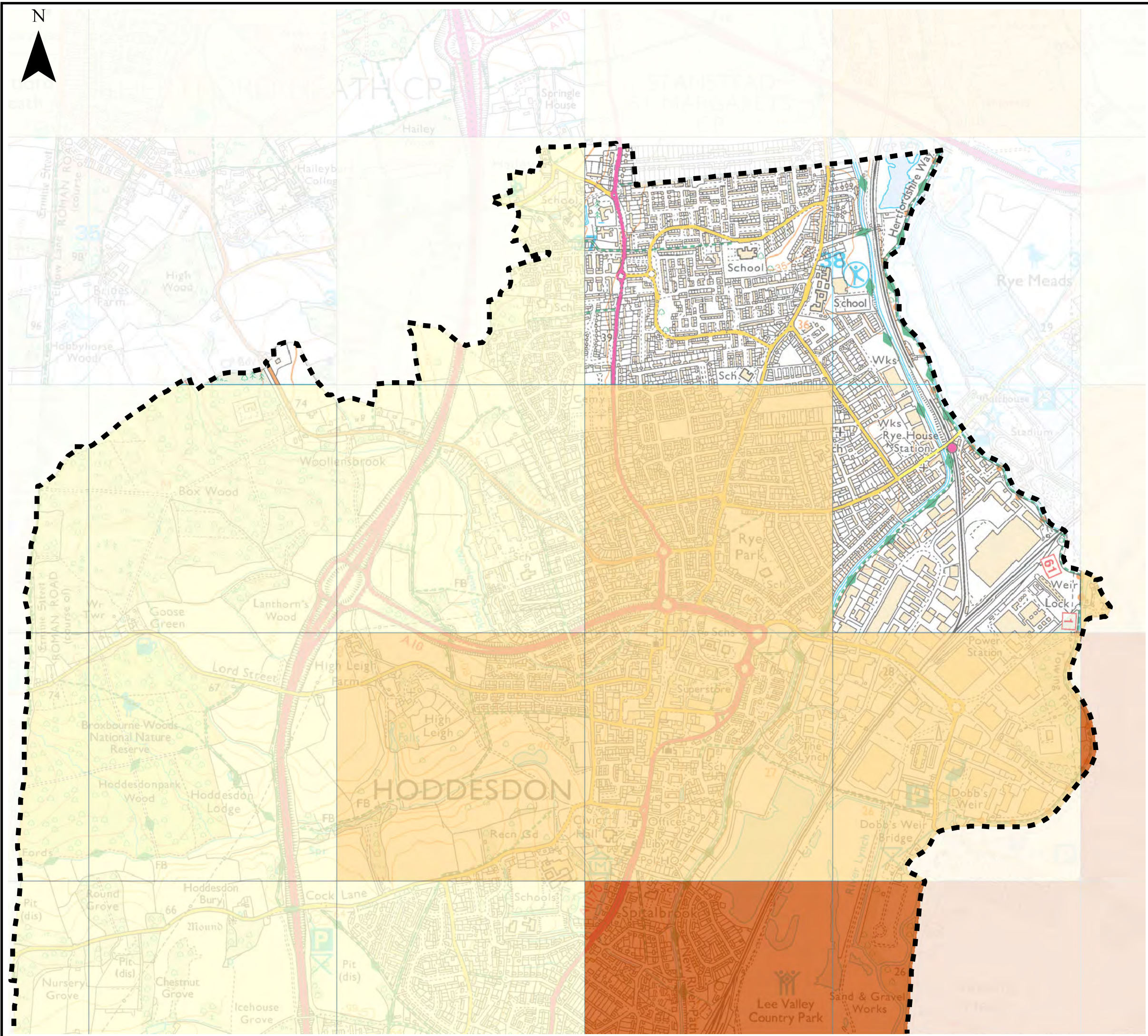
BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX D
SURFACE WATER FLOOD MAPS

Sheet No: 5 of 5 Index Number: BBC_SFRA_5

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



N

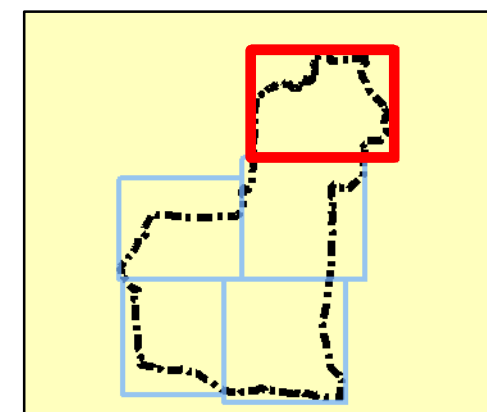


Notes

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.

Key Plan



Legend

Broxbourne Borough Council boundary

Areas Susceptible to Groundwater Flooding

Classification

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

Note: Absence of values for any grid square means that no part of that square is identified as being susceptible to groundwater emergence.

0.9 km

REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL

SFRA

APPENDIX E

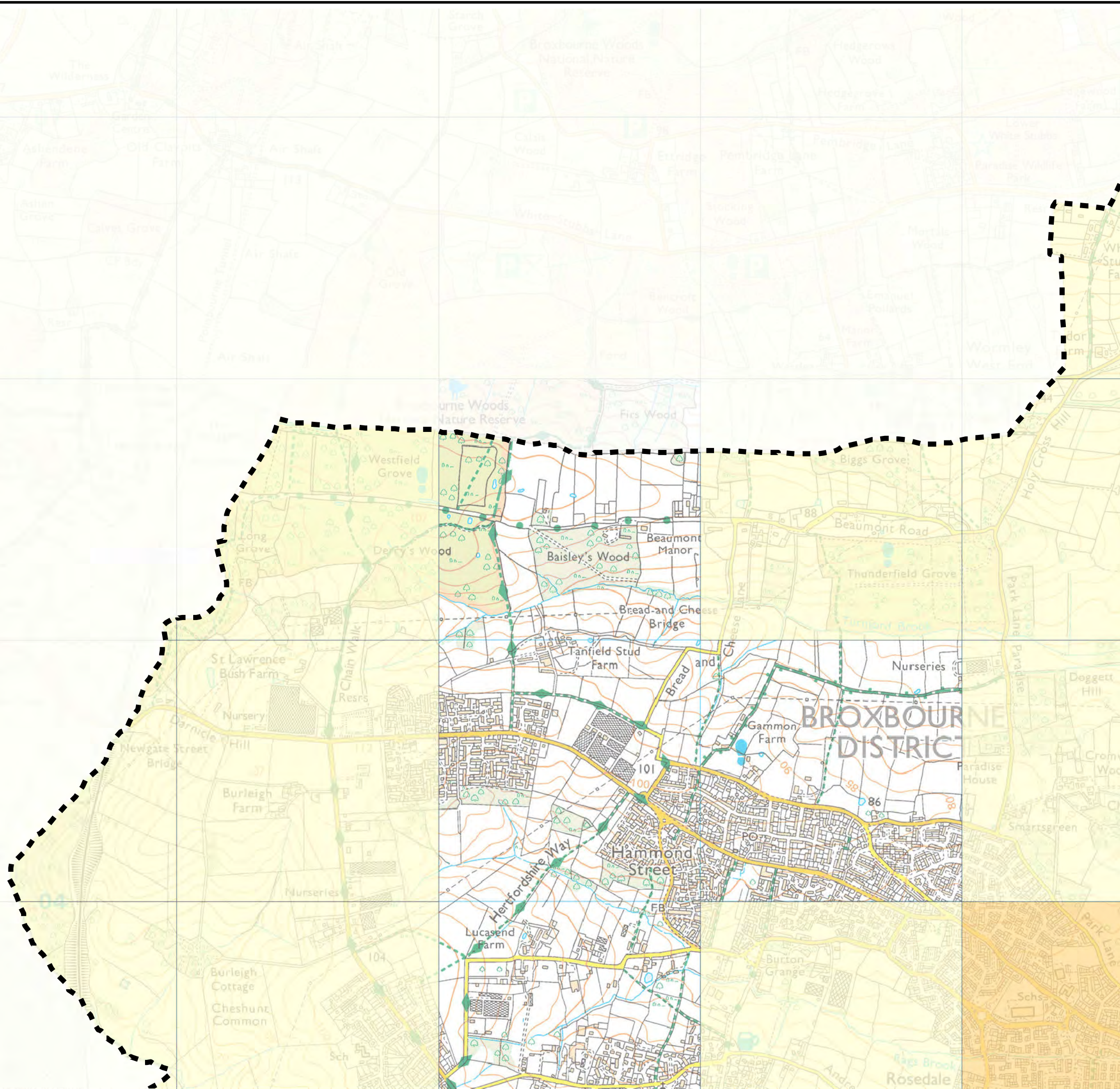
GROUNDWATER FLOOD MAPS

Sheet No: 1 of 5 Index Number: BBC_SFRA_1

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



N

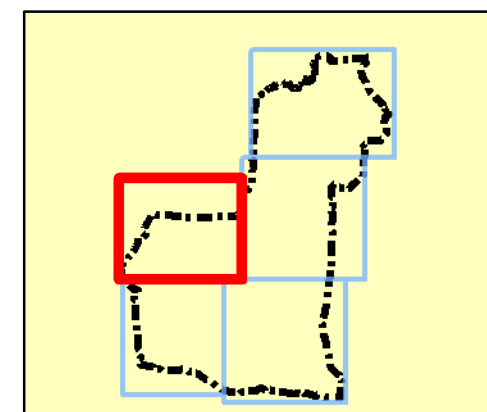


Notes

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.

Key Plan



Legend

Broxbourne Borough Council boundary

Areas Susceptible to Groundwater Flooding

Classification

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

Note: Absence of values for any grid square means that no part of that square is identified as being susceptible to groundwater emergence.

0.9 km

REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

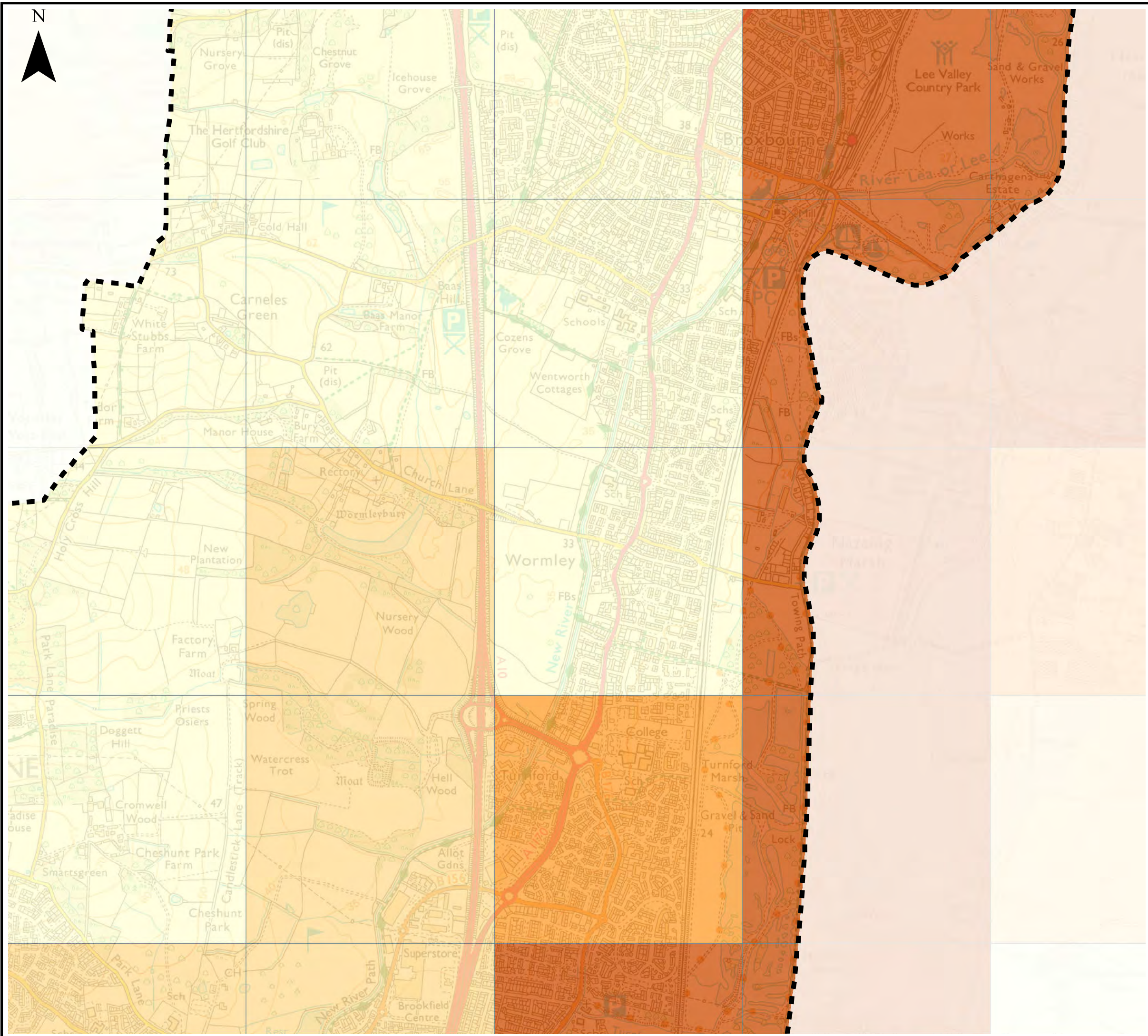
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL SFRA APPENDIX E GROUNDWATER FLOOD MAPS

Sheet No: 2 of 5 Index Number: BBC_SFRA_2

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



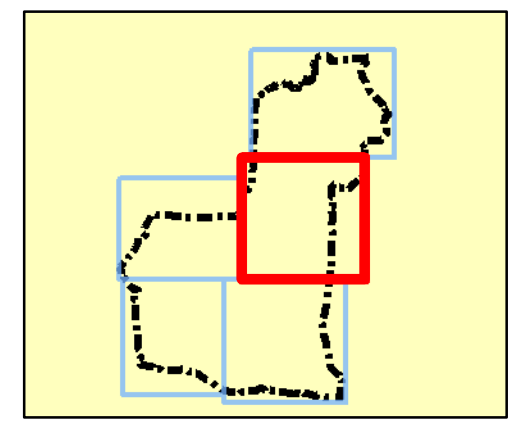


Notes

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.

Key Plan



Legend

- Broxbourne Borough Council boundary
- Areas Susceptible to Groundwater Flooding Classification**
- ≥ 75%
- ≥ 50% < 75%
- ≥ 25% < 50%
- < 25%

Note: Absence of values for any grid square means that no part of that square is identified as being susceptible to groundwater emergence.



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

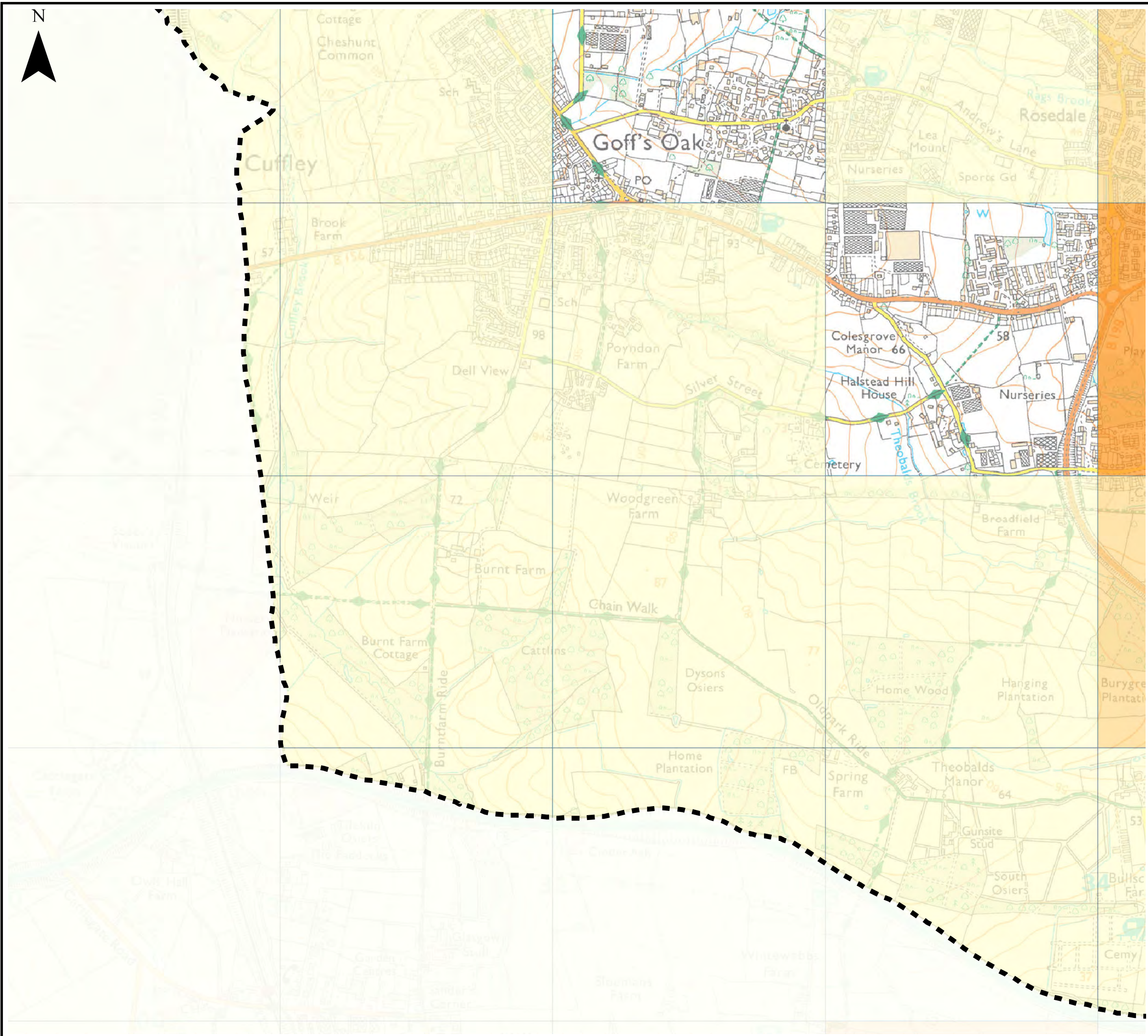
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL SFRA APPENDIX E GROUNDWATER FLOOD MAPS

Sheet No: 3 of 5 Index Number: BBC_SFRA_3

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



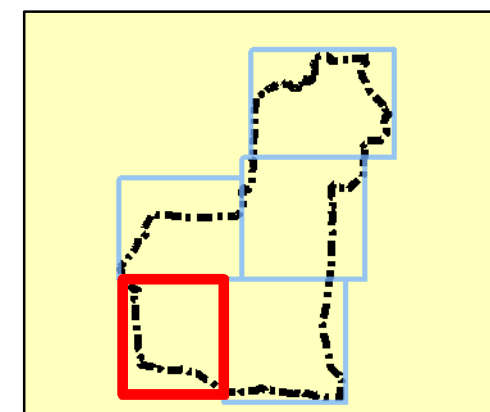


Notes

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.

Key Plan



Legend

Broxbourne Borough Council boundary

Areas Susceptible to Groundwater Flooding

Classification

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

Note: Absence of values for any grid square means that no part of that square is identified as being susceptible to groundwater emergence.



REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

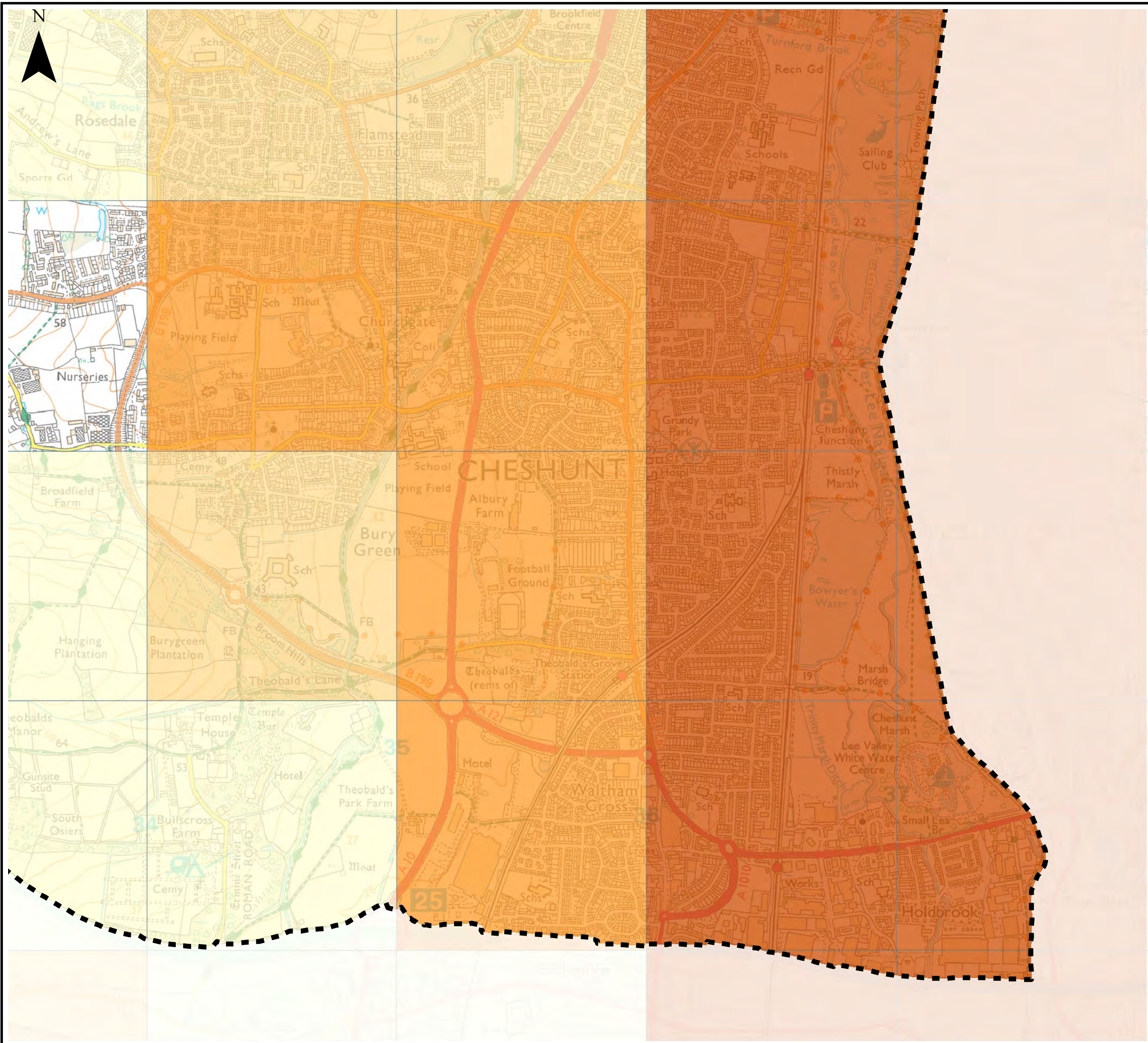
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX E
GROUNDWATER FLOOD MAPS

Sheet No: 4 of 5 Index Number: BBC_SFRA_4

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



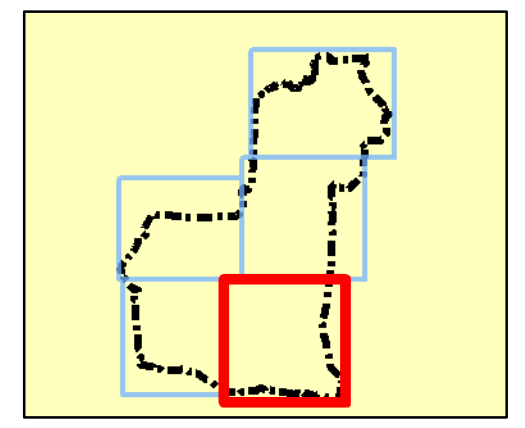


Notes

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.

Key Plan



Legend

- Broxbourne Borough Council boundary
- Areas Susceptible to Groundwater Flooding Classification**
- ≥ 75%
- ≥ 50% < 75%
- ≥ 25% < 50%
- < 25%

Note: Absence of values for any grid square means that no part of that square is identified as being susceptible to groundwater emergence.

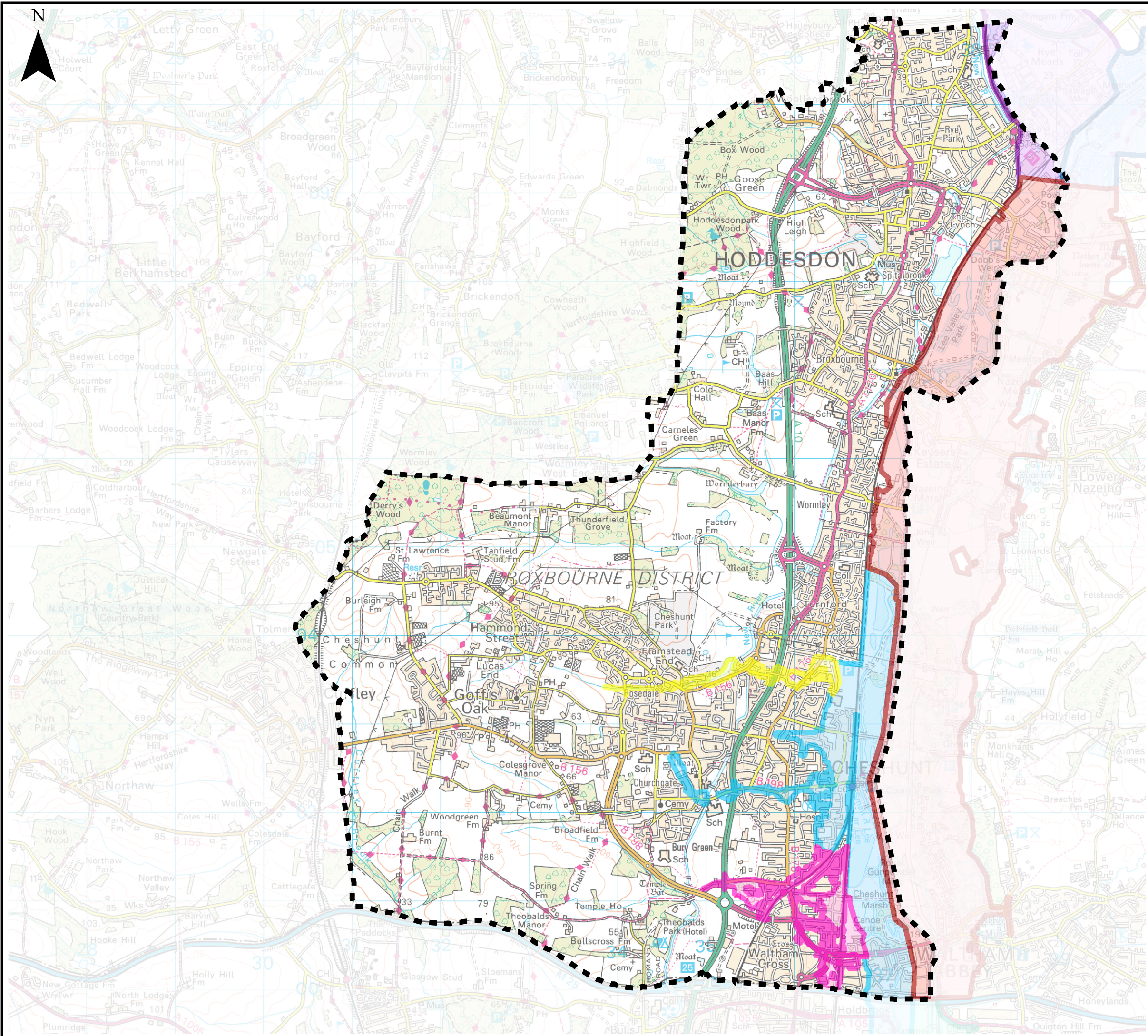
REF	Date	Comments
A	May 16	Draft v1.0
B		
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX E
GROUNDWATER FLOOD MAPS

Sheet No: 5 of 5 Index Number: BBC_SFRA_5

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



Notes

Flood Alerts are used to warn people of the possibility of flooding and encourage them to be alert, stay vigilant and make early preparations. It is issued earlier than a flood warning, to give customers advice notice of the possibility of flooding, but before we are fully confident that flooding in Flood Warning Areas is expected.

Flood Warnings warn people of expected flooding and encourage them to take action to protect themselves and their property.

Some areas may be covered by more than one flood warning area as they may be at risk of flooding from more than one watercourse.

Legend

- Broxbourne Borough Council boundary
- FWA Code**
- 062FWF46Hertford
- 062FWF51Harlow
- 062FWF53Enfield
- 062FWF53Hoddesdn
- 062FWF53RagsBk
- 062FWF53SmallLee
- 062FWF53Trinity



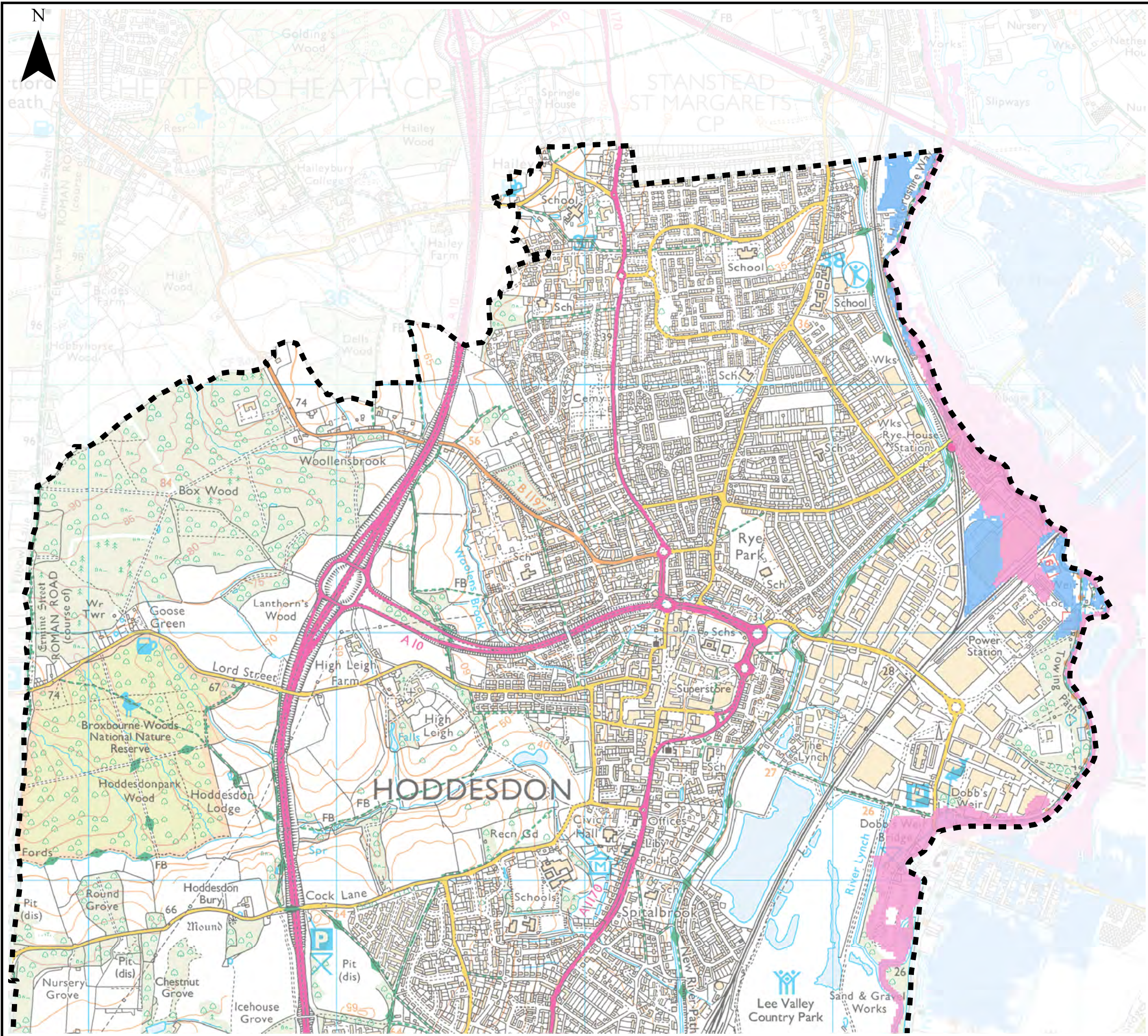
REF	Date	Comments
A	May 16	Draft v1.0
B	May 16	Final v1.0
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX F
FLOOD WARNING COVERAGE

Sheet No: 1 of 1 Index Number: BBC_SFRA_1

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.



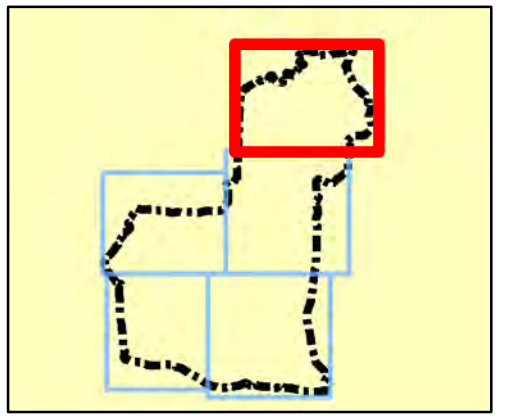
Notes

Mapping indicating flooding from from artifical sources has been developed based on Environment Agency supplied datasets.

Please note that the reservoir inundation outlines shown in the mapping are made up of reservoirs which are located outside the Broxbourne Borough Council adminstrative area.

For further information developers should contact the Environment Agency.

Key Plan



Legend

- Broxbourne Borough Council boundary
- Reservoir Inundation Extent**
- Reservoir Name**
- Rye Meads Lagoons 10, 12, 14 & 16
- Rye Meads Lagoons 11, 13, 15 & 17



REF	Date	Comments
A	May 16	Draft v1.0
B	May 16	Final v1.0
C		

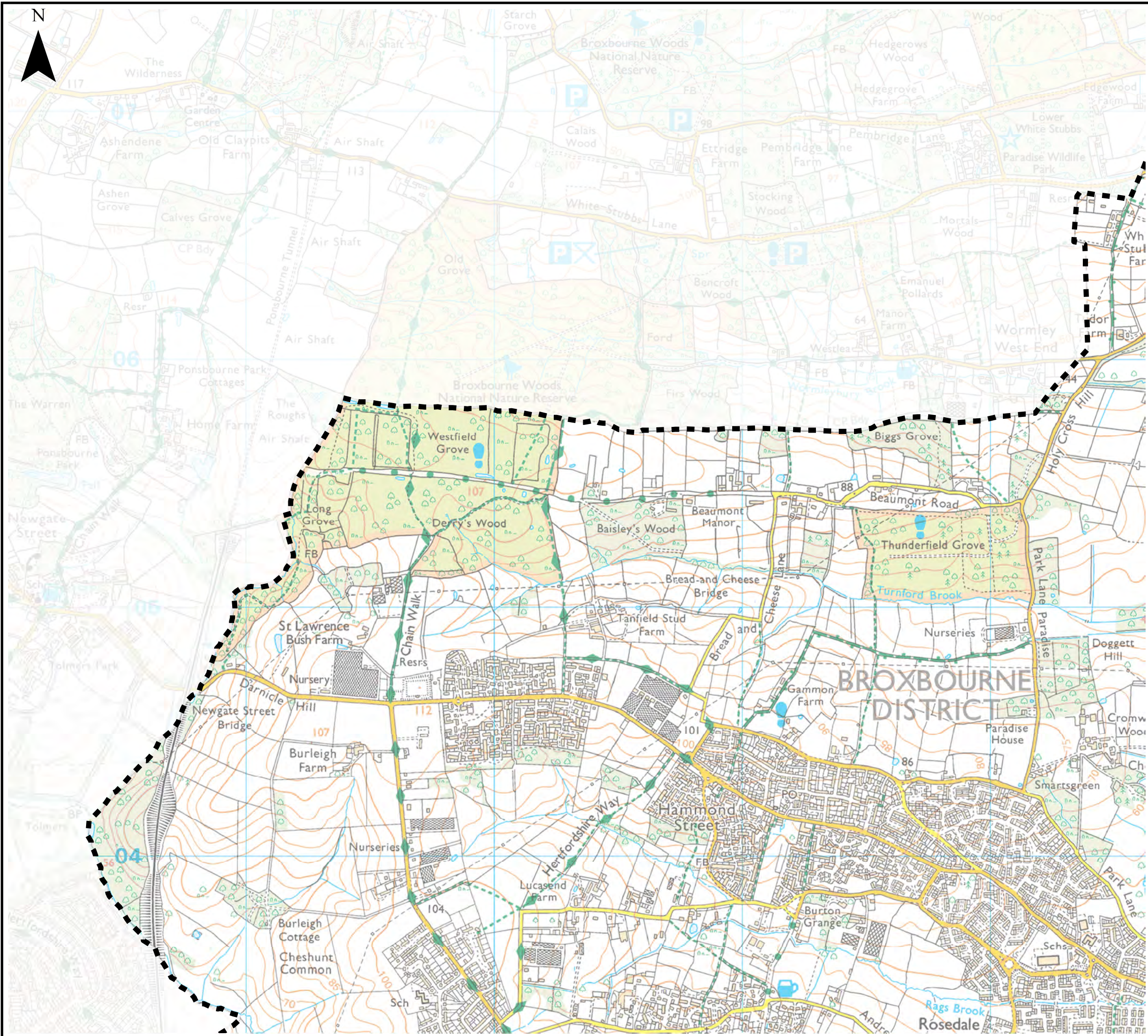
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

**BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX G
FLOODING FROM ARTIFICIAL SOURCES**

Sheet No: 1 of 5 Index Number: BBC_SFRA_1

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

Mapping indicating flooding from from artificial sources has been developed based on Environment Agency supplied datasets.

Please note that the reservoir inundation outlines shown in the mapping are made up of reservoirs which are located outside the Broxbourne Borough Council administrative area.

For further information developers should contact the Environment Agency.

Key Plan



Legend

 Broxbourne Borough Council boundary



REF	Date	Comments
A	May 16	Draft v1.0
B	May 16	Final v1.0
C		

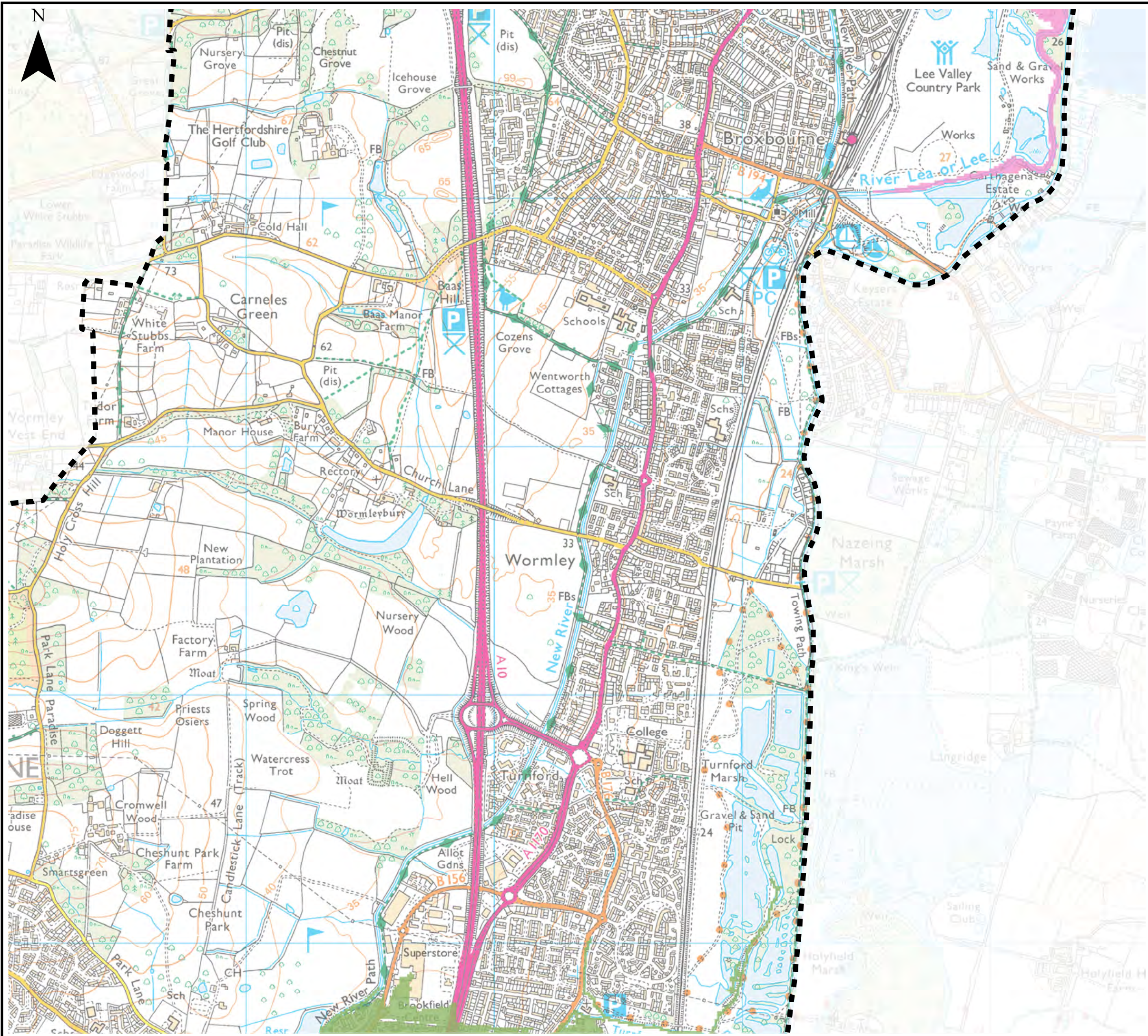
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL SFRA APPENDIX G FLOODING FROM ARTIFICIAL SOURCES

Sheet No: 2 of 5 Index Number: BBC_SFRA_2

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

Mapping indicating flooding from artificial sources has been developed based on Environment Agency supplied datasets.

Please note that the reservoir inundation outlines shown in the mapping are made up of reservoirs which are located outside the Broxbourne Borough Council administrative area.

For further information developers should contact the Environment Agency.

Key Plan



Legend

- Broxbourne Borough Council boundary
- Reservoir Inundation Extent**
- Reservoir Name**
- Cheshunt North FSA
- Rye Meads Lagoons 10, 12, 14 & 16
- Rye Meads Lagoons 11, 13, 15 & 17



REF	Date	Comments
A	May 16	Draft v1.0
B	May 16	Final v1.0
C		

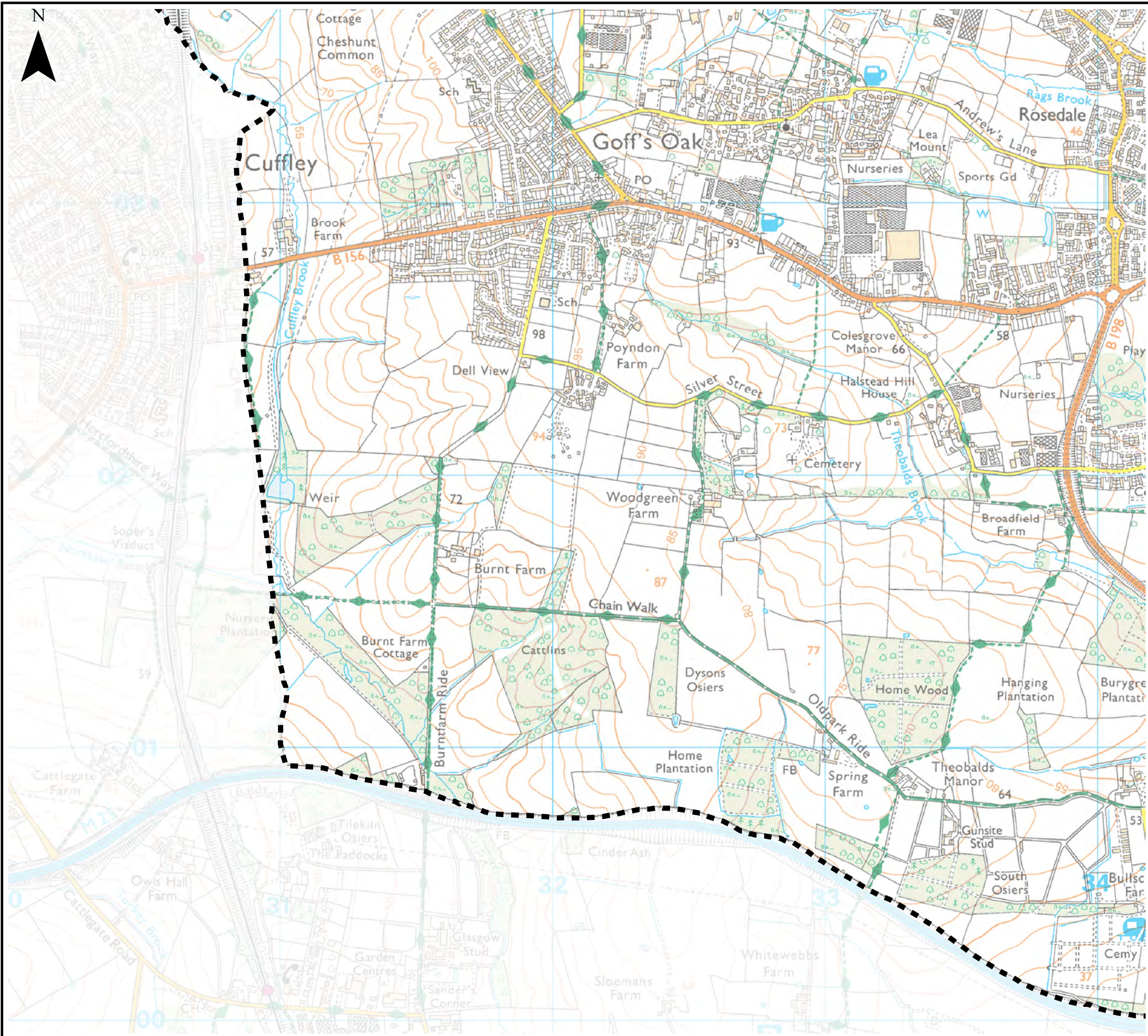
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX G
FLOODING FROM ARTIFICIAL SOURCES

Sheet No: 3 of 5 Index Number: BBC_SFRA_3

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





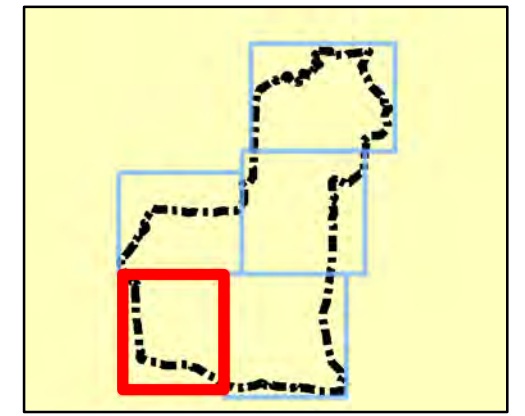
Notes

Mapping indicating flooding from artificial sources has been developed based on Environment Agency supplied datasets.

Please note that the reservoir inundation outlines shown in the mapping are made up of reservoirs which are located outside the Broxbourne Borough Council administrative area.

For further information developers should contact the Environment Agency.

Key Plan



Legend

 Broxbourne Borough Council boundary



REF	Date	Comments
A	May 16	Draft v1.0
B	May 16	Final v1.0
C		

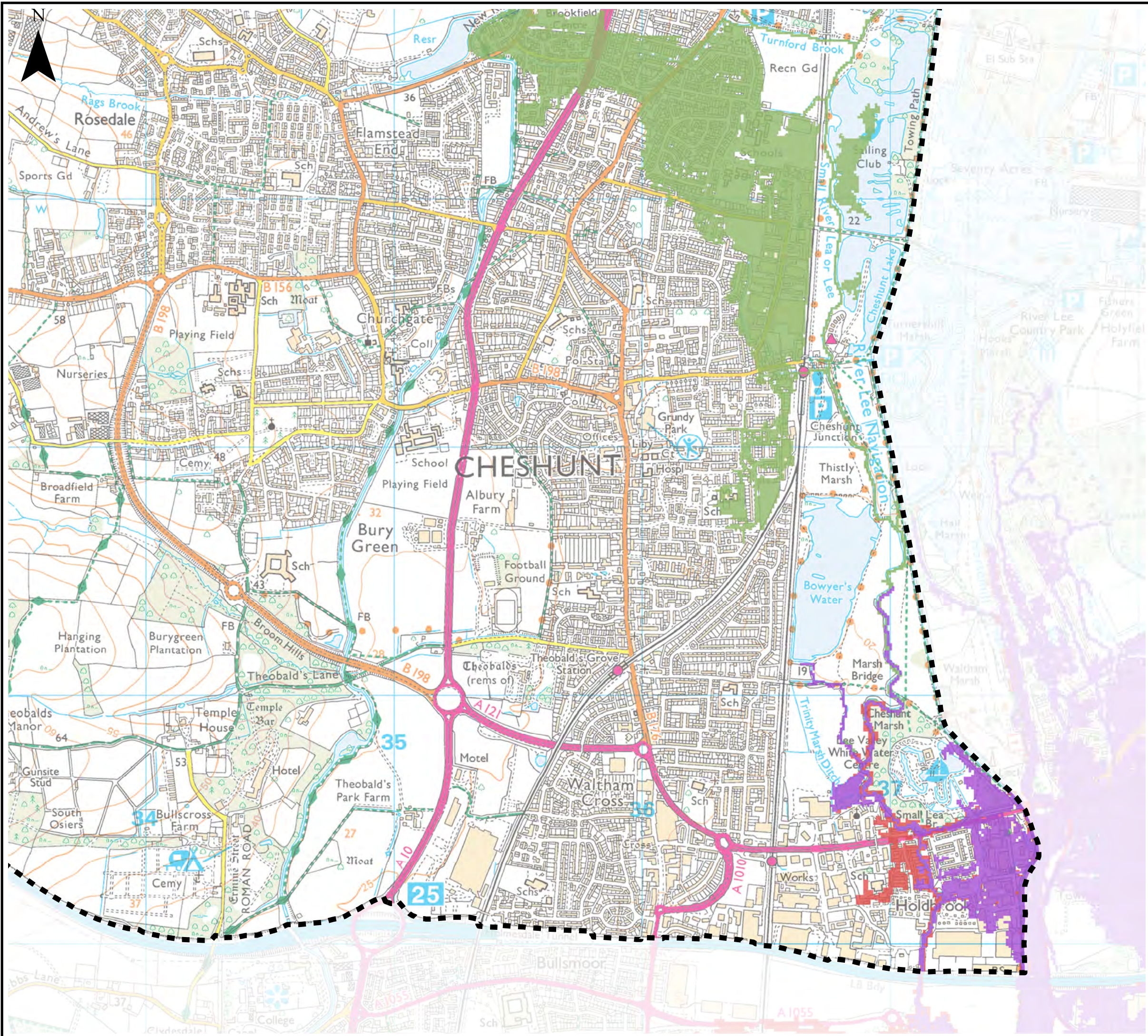
Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX G
FLOODING FROM ARTIFICIAL SOURCES

Sheet No: 4 of 5 Index Number: BBC_SFRA_4

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.





Notes

Mapping indicating flooding from from artifical sources has been developed based on Environment Agency supplied datasets.

Please note that the reservoir inundation outlines shown in the mapping are made up of reservoirs which are located outside the Broxbourne Borough Council adminstrative area.

For further information developers should contact the Environment Agency.

Key Plan



Legend

- Broxbourne Borough Council boundary
- Reservoir Inundation Extent**
- Reservoir Name**
- Cheshunt North FSA
- Cobbins Brook FAS
- King George V



REF	Date	Comments
A	May 16	Draft v1.0
B	May 16	Final v1.0
C		

Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2016 Ordnance Survey. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. © Environment Agency copyright and/or database right 2016. All rights reserved. Broxbourne Borough Council Licence No. LA100023526 2016

BROXBOURNE BOROUGH COUNCIL
SFRA
APPENDIX G
FLOODING FROM ARTIFICIAL SOURCES

Sheet No: 5 of 5 Index Number: BBC_SFRA_5

This document is the property of Jeremy Benn Associates Ltd. It shall not be reproduced in whole or in part, nor disclosed to a third party, without the permission of Jeremy Benn Associates Ltd.

PROJECT DATA REGISTER

Project Title:	Broxbourne Borough Level 1 SFRA
Job Code:	2016s4048
Client:	Broxbourne Borough Council
Data Manager:	Jo Chillingworth / Sophie Dusting

Ref:	Date Received	Description / Title	Media type	Data format	Received from	Data Licence?
2016s4048-1	25/05/2016	Shapefile format of Development Sites	email attachment	shapefiles	Kim Harding (BBC)	
2016s4048-2	18/03/2016	Aquifer designation map (bedrock geology)	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-3	18/03/2016	Aquifer designation map (superficial deposits)	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-4	18/03/2016	Areas Susceptible to Groundwater flooding (ASfGWf)	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-5	18/03/2016	Areas to benefit from New and Reconditioned Flood Schemes under the Medium Term Plan (2014/15 – 2019/20)	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-6	18/03/2016	Detailed River Network	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-7	18/03/2016	Flood Alert Areas	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-8	18/03/2016	Flood Map	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-9	18/03/2016	Flood Warning Areas	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-10	18/03/2016	Groundwater Vulnerability	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-11	18/03/2016	Historic Flood Map	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-12	18/03/2016	Historic flood warnings	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-13	18/03/2016	Historic landfill	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-14	18/03/2016	National Receptors Dataset	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-15	18/03/2016	Recorded Flood Outlines	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-16	18/03/2016	Risk of Flooding from Rivers and Sea	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-17	18/03/2016	Source Protection Zones (Merged)	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-18	18/03/2016	Statutory (Sealed) Main Rivers	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-19	18/03/2016	Updated Flood Map for Surface Water (uFMfSW) Basic	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-20	18/03/2016	Updated Flood Map for Surface Water (uFMfSW) Complex	download from Geostore	shapefiles	EA Geostore	Yes
2016s4048-21	18/03/2016	WFD - Information for Significant Water Management Issues	download from Geostore		EA Geostore	Yes
2016s4048-22	05/04/2016	OS Streetview background mapping (1:10,000, OS 1:25,000 and 1:50,000)	download from Herts portal	TIFs	Sharon Bates (BBC)	Yes - PSMA Signed
2016s4048-23	08/03/2016	Stakeholder Contact Details	email attachment	Word Document (.docx)	Kim Harding (BBC)	
2016s4048-24	19/05/2016	Highways Flooding Enquiries	email attachment	Excel	Highways (HCC)	
2016s4048-25	30/03/2016	AIMS defence data	email attachment	shapefiles	Environment Agency	Yes - special licence
2016s4048-26	30/03/2016	Reservoir Inundation Maps	email attachment	shapefiles	Environment Agency	Yes - special licence
2016s4048-27	11/04/2016	Hydraulic models - Hertford	EA ShareFile	Misc. - Model files, reports and GIS	Environment Agency	Yes - special licence
2016s4048-28	11/04/2016	Hydraulic models - Ware	EA ShareFile	Misc. - Model files, reports and GIS	Environment Agency	Yes - special licence
2016s4048-29	11/04/2016	Hydraulic models - River Lee MO2 Parts 1-3, plus P5 and P6 Lee Data	EA ShareFile	Misc. - Model files, reports and GIS	Environment Agency	Yes - special licence
2016s4048-30	11/04/2016	Hydraulic models - Tribs - M14	EA ShareFile	Misc. - Model files, reports and GIS	Environment Agency	Yes - special licence
2016s4048-31	11/04/2016	Hydraulic models - Tribs - M05_M06	EA ShareFile	Misc. - Model files, reports and GIS	Environment Agency	Yes - special licence
2016s4048-32	11/04/2016	Hydraulic models - Tribs - M07_M08	EA ShareFile	Misc. - Model files, reports and GIS	Environment Agency	Yes - special licence
2016s4048-33	03/05/2016	Canals, locks and overtopping locations	email attachment	shapefiles	Canal and River Trust	Yes - PSMA used
2016s4048-34	06/05/2016	Information on draft proposal schedules and maps	email attachment	PDFs	LVRPA	
2016s4048-35	16/03/2016	DG5 Register for sewer flooding	email attachment	Excel	Thames Water	Yes - signed
2016s4048-36	20/05/2016	SHLAA Sites	email attachment	shapefiles	Welwyn Hatfield Council	
2016s4048-37	05/05/2016	Site allocations	email attachment	shapefiles	East Herts Council	
2016s4048-38	Throughout project	Internet Documents - relevant to BBC, HCC, e.g. PFRA, LFRMS, SUDS, 2008 SFRA, Flood Investigations etc	Internet downloads	PDFs	HCC and BBC websites	
2016s4048-39	21/04/2016	Asset Register	Internet downloads	PDFs	HCC website	