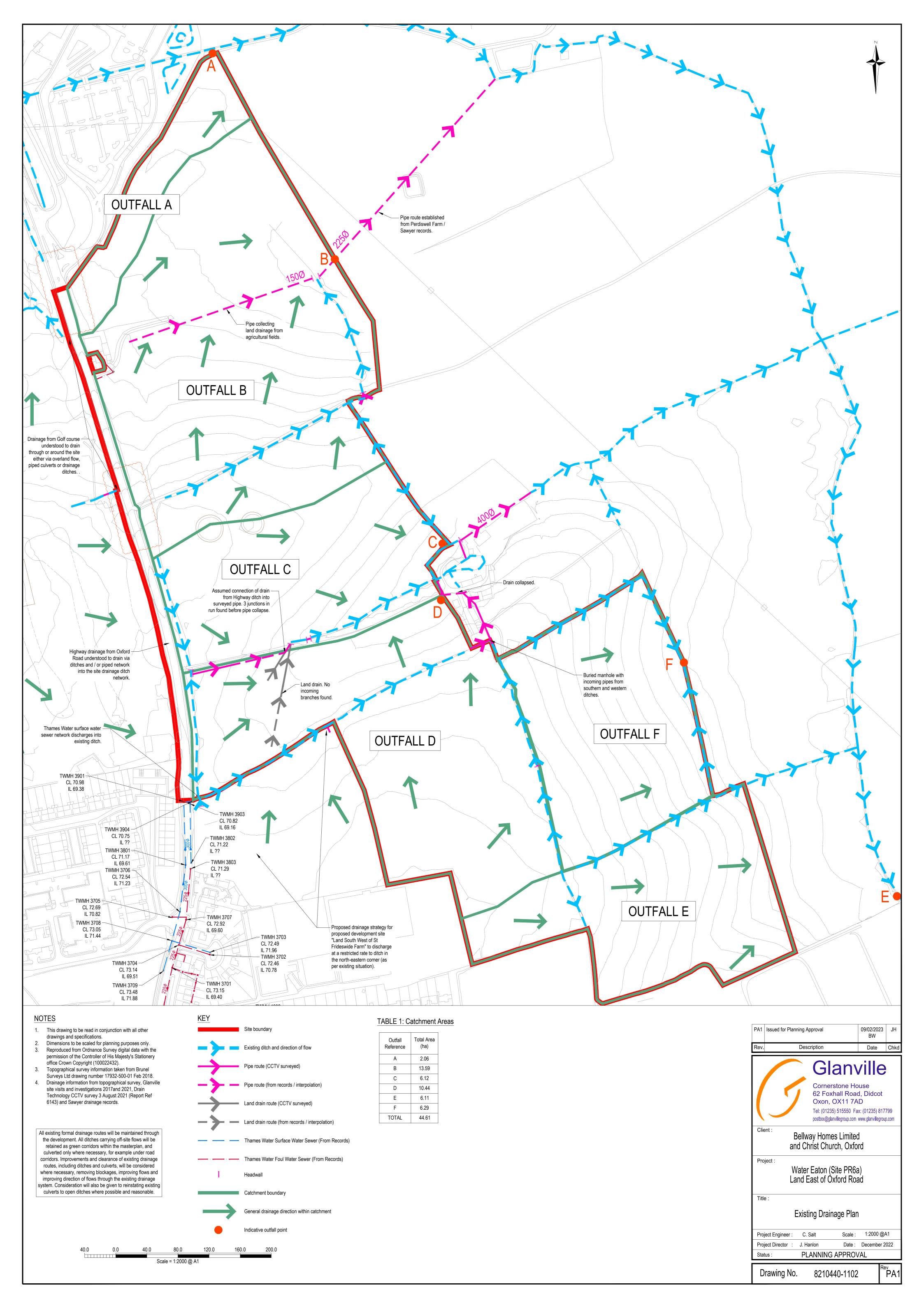


Appendix F

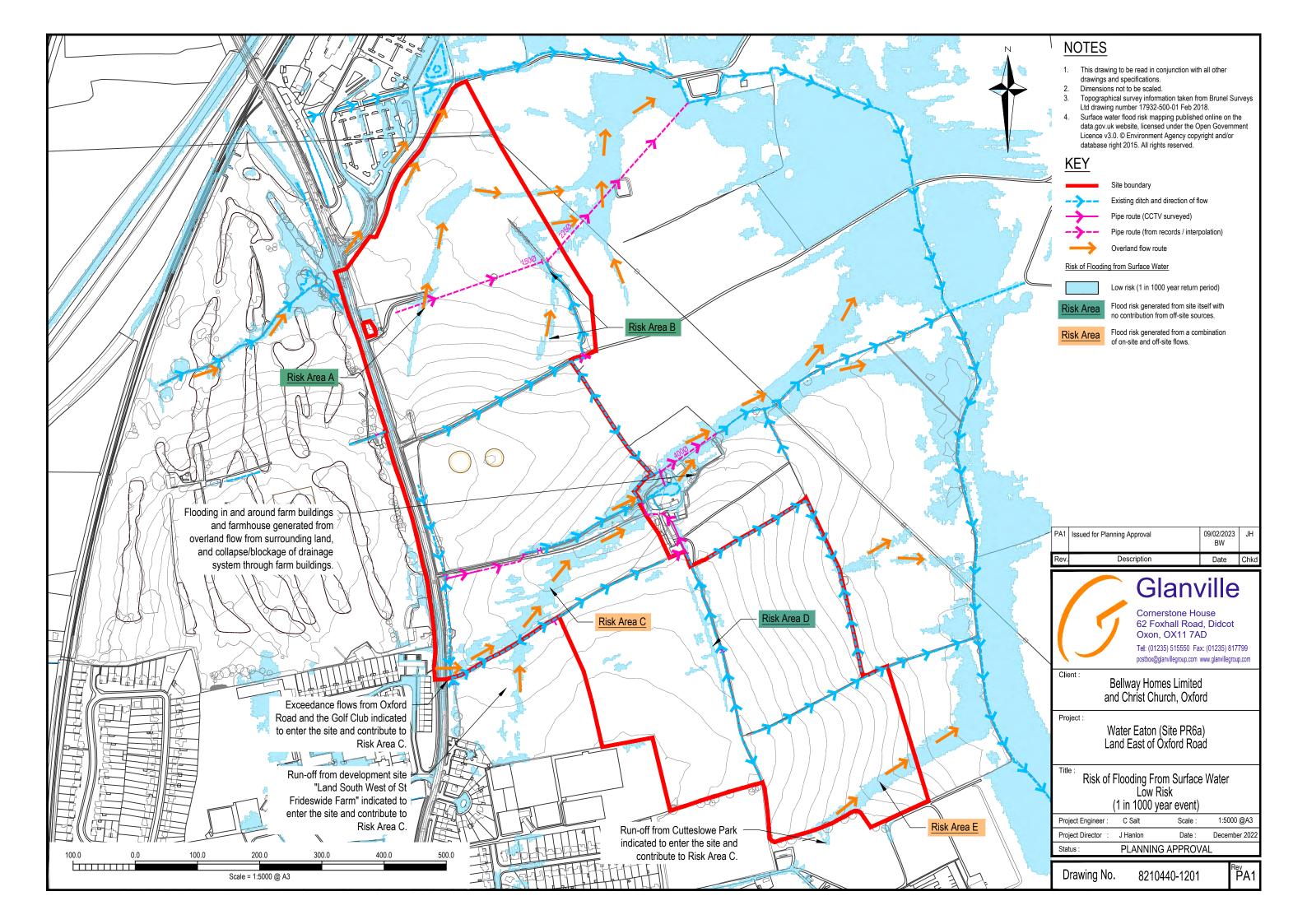
Existing Drainage Plan

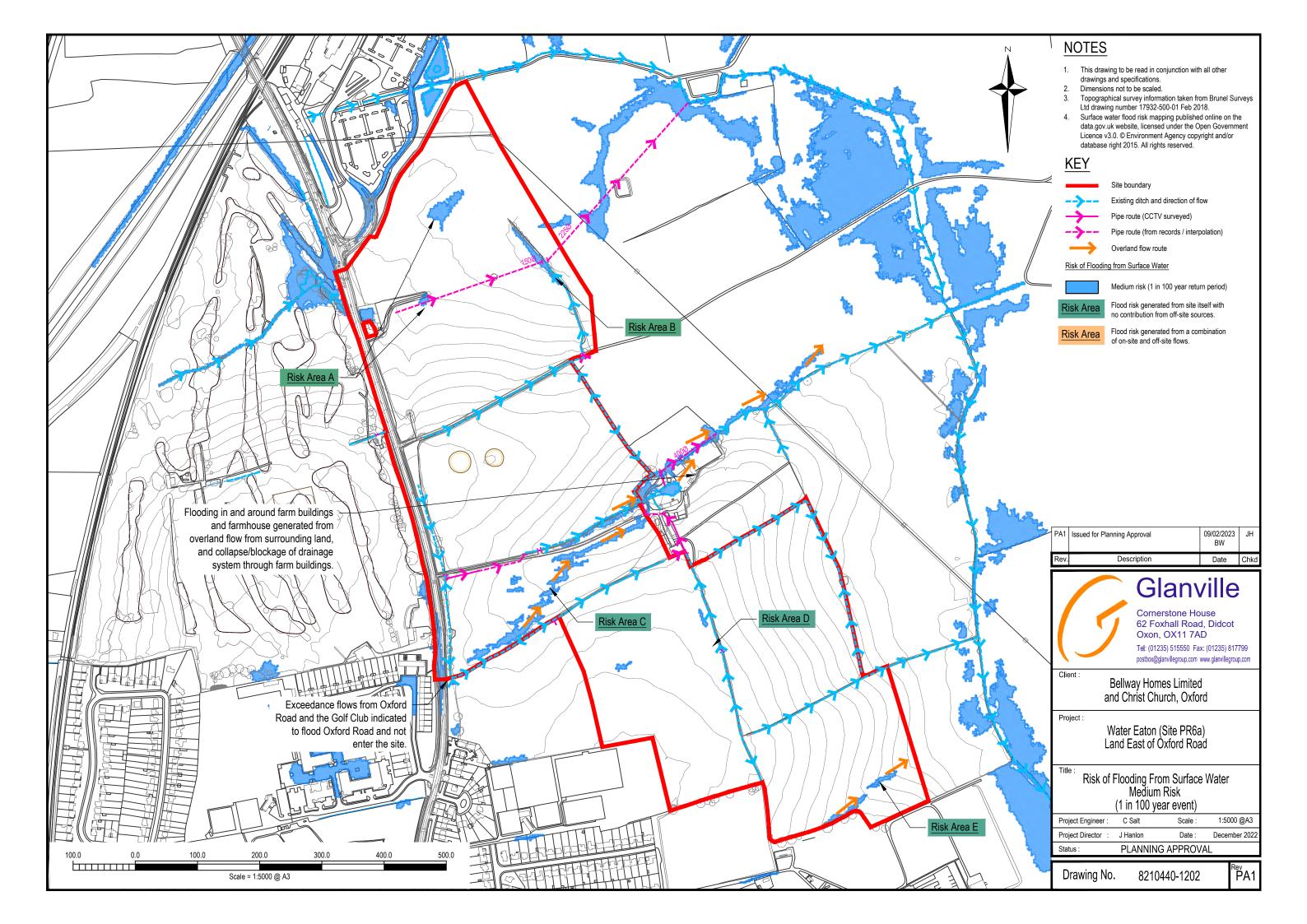


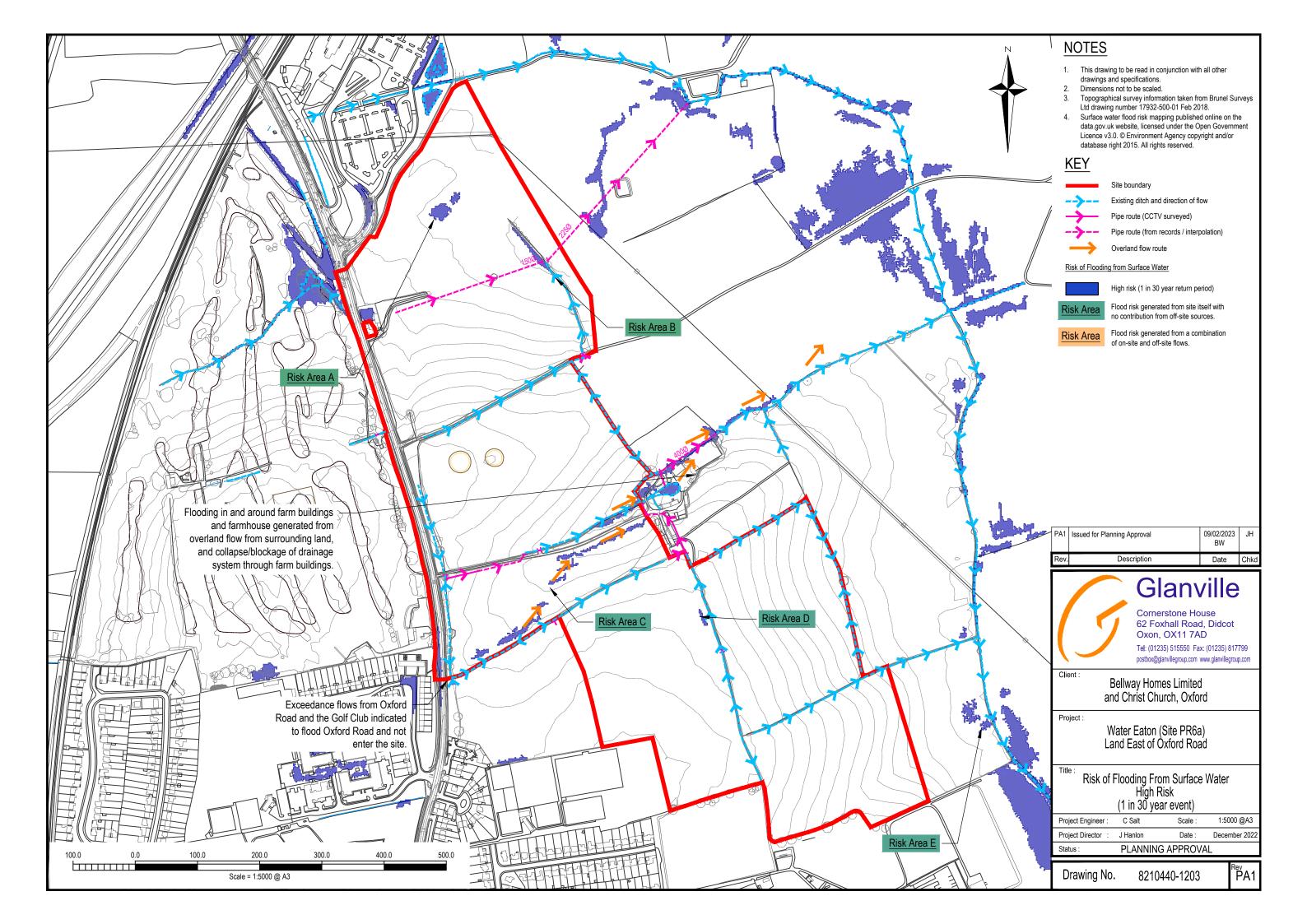


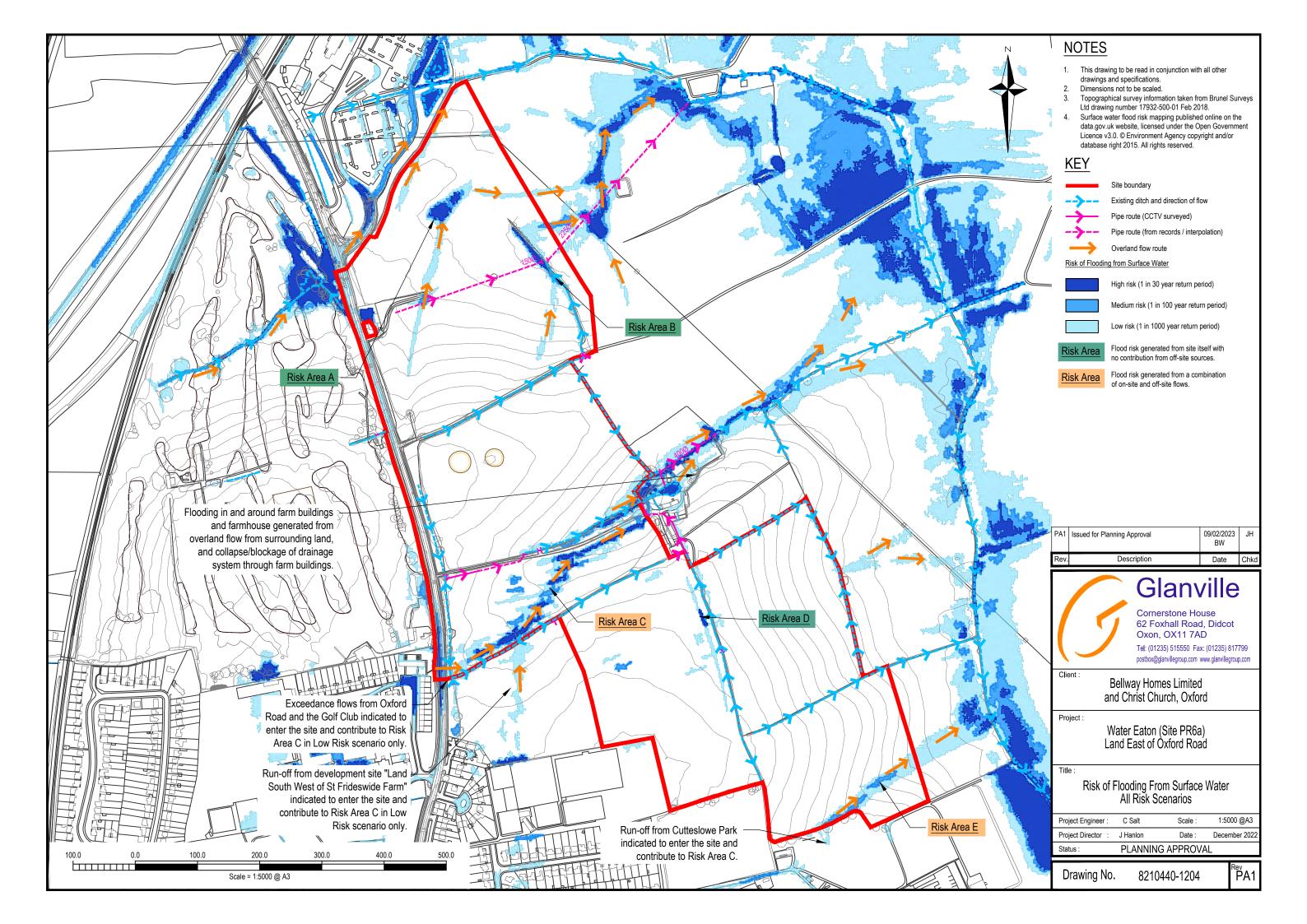
Appendix G Surface Water Flood Risk Map

Ref: 031_8210440_BW_Flood_Risk_Assessment





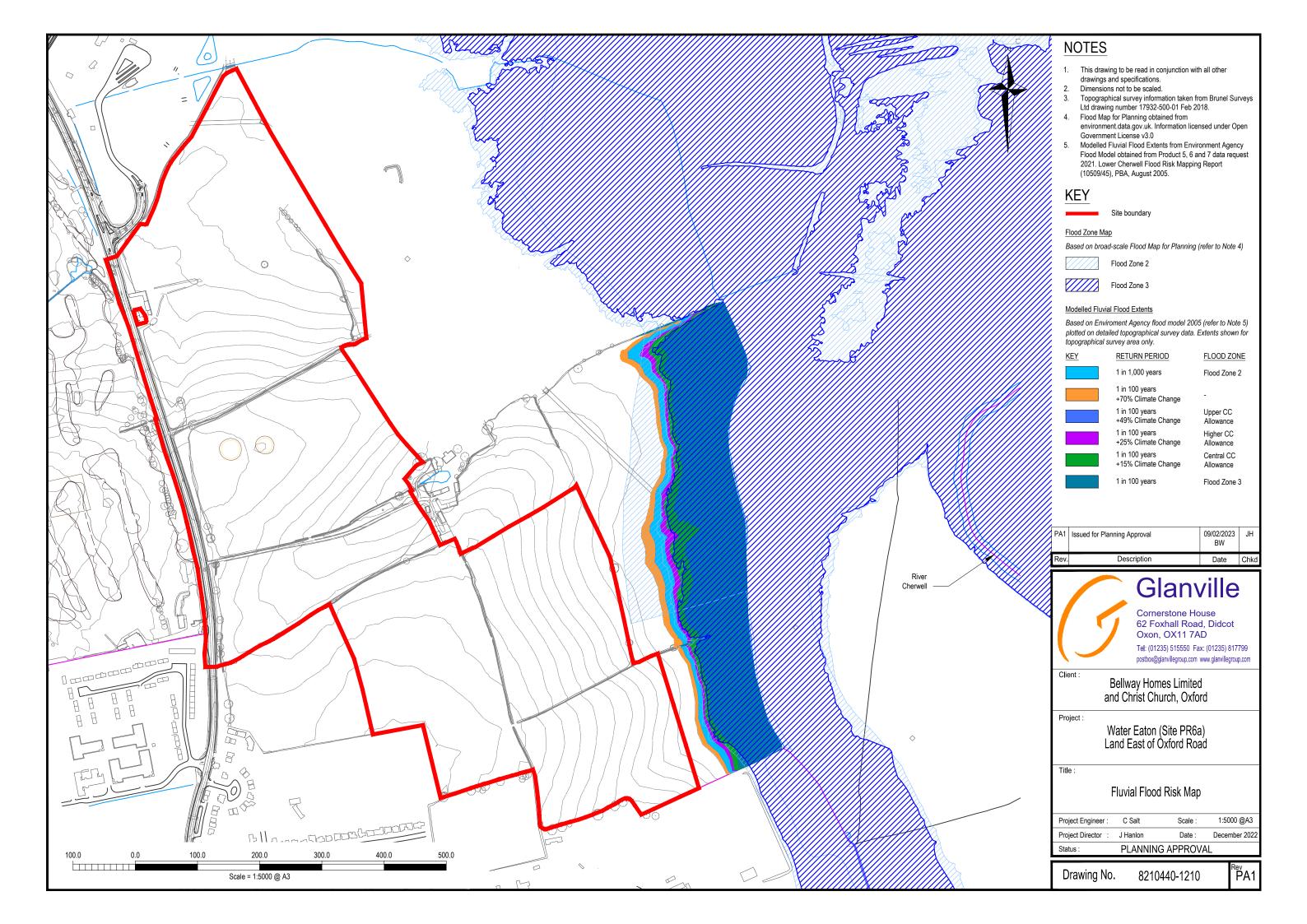






Appendix H

Fluvial Flood Risk Map





Appendix I

Environment Agency Product 4 Data



Product 4 (Detailed Flood Risk) for North Oxford Triangle, OX2 8HF Our Ref: THM_64417

Product 4 is designed for developers where Flood Risk Standing Advice FRA (Flood Risk Assessment) Guidance Note 3 Applies. This is:

- i) "all applications in Flood Zone 3, other than non-domestic extensions less than 250 sq metres; and all domestic extensions", and
- ii) "all applications with a site area greater than 1 ha" in Flood Zone 2.

Product 4 includes the following information:

Ordnance Survey 1:25k colour raster base mapping;

Flood Zone 2 and Flood Zone 3:

Relevant model node locations and unique identifiers (for cross referencing to the water levels, depths and flows table);

Model extents showing defended scenarios;

FRA site boundary (where a suitable GIS layer is supplied);

Flood defence locations (where available/relevant) and unique identifiers; (supplied separately)

Flood Map areas benefiting from defences (where available/relevant);

Flood Map flood storage areas (where available/relevant);

Historic flood events outlines (where available/relevant, not the Historic Flood Map) and unique identifiers:

Statutory (Sealed) Main River (where available within map extents);

A table showing:

- i) Model node X/Y coordinate locations, unique identifiers, and levels and flows for defended scenarios.
- ii) Flood defence locations unique identifiers and attributes; (supplied seperately)
- iii) Historic flood events outlines unique identifiers and attributes; and
- iv) Local flood history data (where available/relevant).

Please note:

If you will be carrying out computer modelling as part of your Flood Risk Assessment, please read the enclosed guidance which sets out our requirements and best practice for computer river modelling.

This information is based on that currently available as of the date of this letter. You may feel it is appropriate to contact our office at regular intervals, to check whether any amendments/ improvements have been made. Should you re-contact us after a period of time, please quote the above reference in order to help us deal with your query.

This information is provided subject to the enclosed notice which you should read.

This letter is not a Flood Risk Assessment. The information supplied can be used to form part of your Flood Risk Assessment. Further advice and guidance regarding Flood Risk Assessments can be found on our website at

http://www.environment-agencv.gov.uk/research/planning/82584.aspx

If you would like advice from us regarding your development proposals you can complete our pre application enquiry form which can be found at

http://www.environment-agency.gov.uk/research/planning/33580.aspx

FRA Map centred on: North Oxford Triangle, OX2 8HF Created on 10/11/2017 REF: THM 64417





Kilometres

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Legend

Main River

Flooding from rivers or sea (FZ3)

Extent of extreme flood (FZ2)

Flooding from rivers or sea without defences (Flood Zone 3) shows the area that could be affected by flooding:

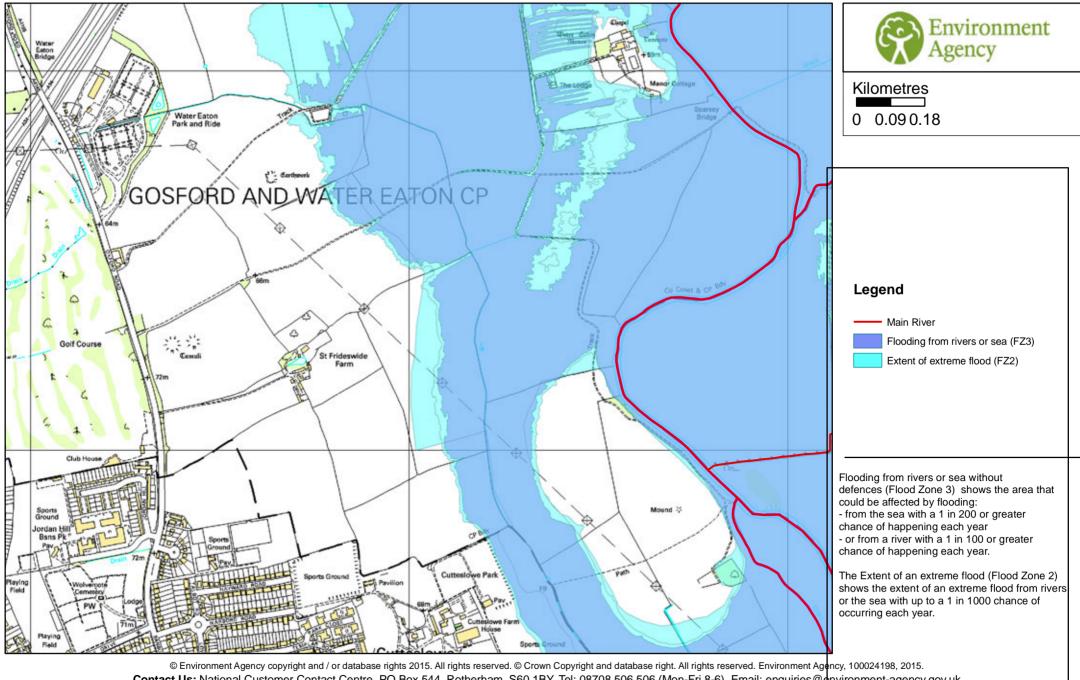
- from the sea with a 1 in 200 or greater chance of happening each year
- or from a river with a 1 in 100 or greater chance of happening each year.

The Extent of an extreme flood (Flood Zone 2) shows the extent of an extreme flood from rivers or the sea with up to a 1 in 1000 chance of occurring each year.

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Flood Map for Planning centred on: St Frideswide Farm Oxford Created on 10/11/2017 REF: THM_64417



Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 08708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Environment Agency THM_64417

Defence information

Defence Location: No defences on Main River

Description: This location is not currently protected by any formal defences and we do not currently have any flood alleviation

works planned for the area. However we continue to maintain certain watercourses and the schedule of these can

be found on our internet pages.



Model information THM_64417

Model:

Cherwell (Thrupps Bridge to Thames Confluence) 2006

Description:

The information provided is taken from the River Cherwell mapping and modelling study completed in February 2006. The study was carried out using ISIS software.

The model extents were mapped to a composite ground surface with a varied vertical resolution. The ground surface around Kidlington was obtained using a broad scale method (synthetic aperture radar) with an average vertical resolution of ± 0.5m. The in channel river nodes are more accurate and should be compared with locally obtained ground levels to determine the actual flood risk.

Model design runs:

1 in 5 / 20% AEP; 1 in 10 / 10% AEP; 1 in 20 / 5% AEP; 1 in 100 / 1% AEP and 1 in 200 / 0.5% AEP (used for climate change)

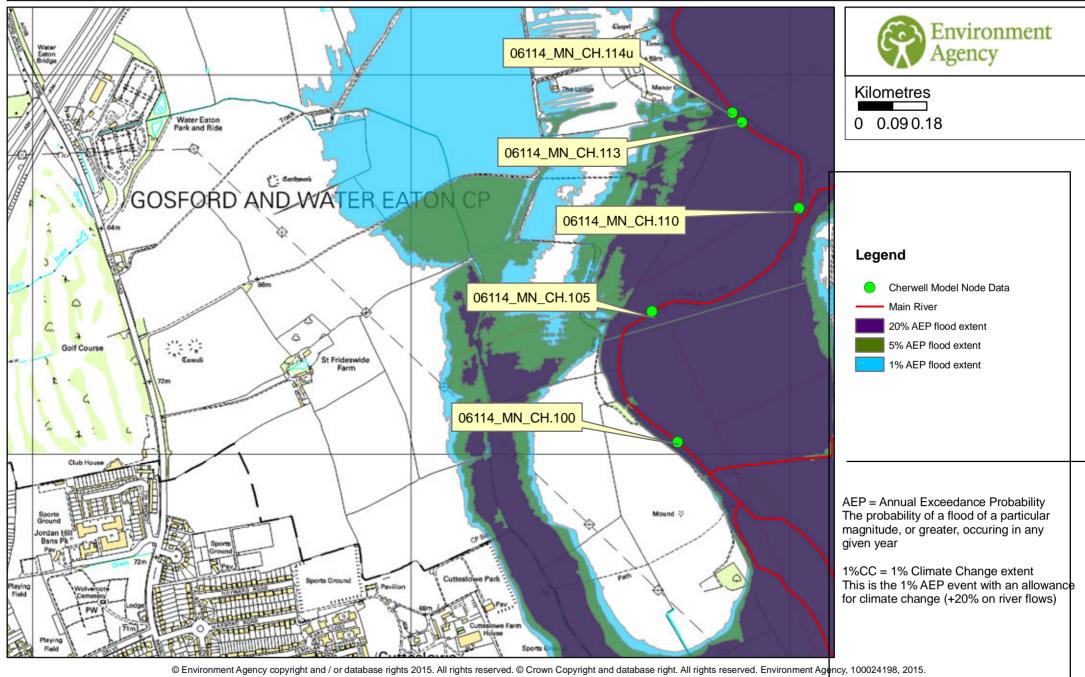
Mapped Outputs:

1 in 5 / 20% AEP; 1 in 20 / 5% AEP; 1 in 100 / 1% AEP and 1 in 200 / 0.5% AEP (used for climate change)

Model accuracy: Levels ± 250mm

Mapped Extents ± 500mm

FRA Map centred on: St Frideswide Farm Oxford Created on 10/11/2017 REF: THM 64417



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Modelled in-channel flood flows and levels

THM_64417

The modelled flood levels and flows for the closest most appropriate model node points for your site that are within the river channel are provided below:

					F	lood Levels (mAOD)		
Node label	Model	Easting	Northing	20% AEP	5% AEP	1% AEP	1% AEP (+20% on river flows)	0.1% AEP
06114_MN_CH.114u	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451849	211900	58.14	58.36	58.52	58.67	0.00
06114_MN_CH.113	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451874	211875	58.13	58.35	58.51	58.66	0.00
06114_MN_CH.110	Cherwell (Thrupps Bridge to Thames Confluence) 2006	452025	211648	58.07	58.30	58.46	58.62	0.00
06114_MN_CH.105	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451636	211376	57.97	58.20	58.38	58.56	0.00
06114_MN_CH.100	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451704	211031	57.87	58.12	58.32	58.51	0.00
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						Flood Flows (m3/s)		
Node label	Model	Easting	Northing	20% AEP	5% AEP	1% AEP	1% AEP (+20% on river flows)	0.1% AEP
06114_MN_CH.114u	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451849	211900	65.64	89.41	116.47	140.09	0.00
06114_MN_CH.113	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451874	211875	65.48	89.16	116.15	139.68	0.00
06114_MN_CH.110	Cherwell (Thrupps Bridge to Thames Confluence) 2006	452025	211648	64.17	87.15	113.59	136.26	0.00
06114_MN_CH.105	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451636	211376	62.53	84.24	109.24	130.35	0.00
06114_MN_CH.100	Cherwell (Thrupps Bridge to Thames Confluence) 2006	451704	211031	61.45	82.34	105.68	125.04	0.00

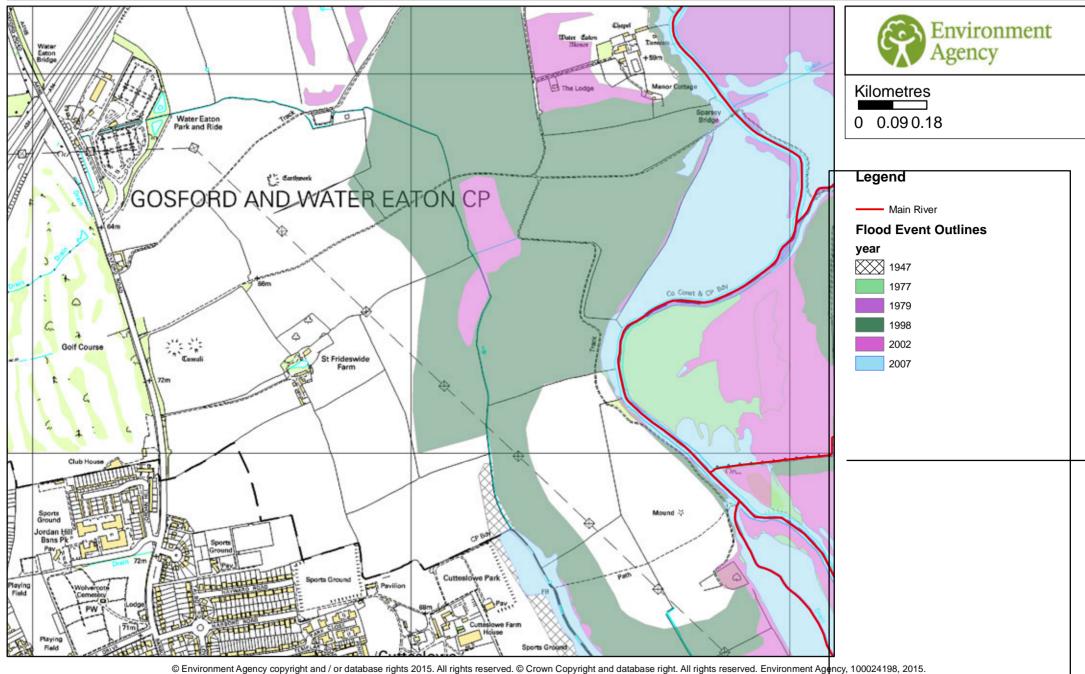
Note:

Due to recent changes in guidance on the allowances for climate change, the 20% increase in river flows should no longer to be used for development design purposes. The data included in this Product can be used for interpolation of levels as part of an Intermediate level assessment.

For further advice on the new allowances please visit

https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances

Historic Flood Map centred on: St Frideswide Farm Oxford Created on 10/11/2017 REF: THM_64417



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Historic flood data THM_64417

Our records show that the area of your site has been affected by flooding. Information on the floods that have affected your site is provided in the table below:

Flood Event Code	Flood Event Name	Start Date	End Date	Source of Flooding	Cause of Flooding
EA0619470300082	06MarchSpring1947	01/01/1947	12/12/1947	main river	channel capacity exceeded (no raised defences)
EA0619770800055	06AugustSummer1977	01/01/1977	12/12/1977	main river	channel capacity exceeded (no raised defences)
EA0619790200104	06FebruaryWinter1979	01/01/1979	12/12/1979	main river	channel capacity exceeded (no raised defences)
EA0619980400094	06AprilEaster1998	01/04/1998	30/04/1998	main river	channel capacity exceeded (no raised defences)
EA0620030102399	06JanuaryNewYear2003	23/12/2002	12/01/2003	main river	channel capacity exceeded (no raised defences)
ea061142825	Gosford and Water Eaton CP_Fluvia	19/07/2007	29/07/2007	main river	channel capacity exceeded (no raised defences)

Please note the Environment Agency maps flooding to land not individual properties. Floodplain extents are an indication of the geographical extent of a historic flood. They do not provide information regarding levels of individual properties, nor do they imply that a property has flooded internally.

Start and End Dates shown above may represent a wider range where the exact dates are not available.