

# Appendix F Council

Minutes of meetings with LLFA and Cambridge City



### **Meeting Note**

Meeting Details				
Project Title:	Cambridge North	Date:	13/12/2121	
Project No:	05425/A	Time:	1400	
Subject:	Surface Water Drainage Strategy	Venue:	Teams	
Present:	Malcolm Crowther (PJA), Greg Dobbins (PJA), Fiona Bradley (Greater Cambridge Shared Planning), David Long (Brookgate), Harry Pickford (Cambridgeshire County Council), Luisa Nunes (Cambridge City Council), Alison Wright (Bidwells)			
Apologies:				

Matters Arising		Action
1	MC explained both drainage layouts with the difference being surface water attenuation under either the Network Rail depot or within a pond north of Cowley Road.	
2	HP stated the First Public Drain overflow culvert is an awarded watercourse and permissions for diversion may be required from both DEFRA and the EA. MC requested confirmation of the procedure from HP after the meeting by email.	
3	The pond was preferred by the LLFA, even as a temporary measure.	
4	MC and DL asked LN and HP to consider raising the final discharge rate from 2.0 to 3.3 l/s/ha as was agreed for the previous planning application between Motts and Cambridge City Council. LN stated 2.0 l/s/ha is the standard. MC explained the issues with fitting in sufficient attenuation to meet that discharge rate. It was discussed that the receiving culvert is an overflow from an open drain network so is typically empty in low return period events and that the site was historically brownfield discharging to ground (now discounted as a solution due to the high groundwater). LN and HP said they would consider raising the final discharge rate.	LN/HP
5	Phasing of the works was discussed with regards to whether the attenuation provision could be offset to the end of the construction period. HP said that this was not ideal as both the site and off-site areas would not be protected in the interim.	
6	Options for discharge from the temporary car park north of Cowley Rd were discussed.	
7	MC issued the pond option pdf to the councils by email and feedback on both options is expected.	LN/HP
8		
9		
10		

Distribution:

Malcolm Crowther (PJA), Greg Dobbins (PJA), David Long (Brookgate), Alison Wright (Bidwells), Ivan Bennett (Brookgate), Mike Barker (RPS), Mike Derbyshire (Bidwells), Harriet Wooler (Bidwells), Fiona Bradley (Greater Cambridge Shared Planning), Harry Pickford (Cambridgeshire County Council), Luisa Nunes (Cambridge City Council)

RG1 2AN



## **Meeting Note**

Meeting Details					
Project Title:	Cambridge North	Date:	09/02/2022		
Project No:	05425/A	Time:	1000		
Subject:	Surface and Foul Water Drainage Strategy	Venue:	Teams		
Present:	Malcolm Crowther (PJA), Luisa Nunes (Cambridge City Council),				
Apologies:	Harry Pickford (Cambridgeshire County Council),				
сс	Greg Dobbins (PJA), Fiona Bradley (Greater Cambridge Shared Planning), David Long (Brookgate), Alison Wright (Bidwells), Harry Pickford (Cambridgeshire County Council), Jennifer Berry (Robert Myers Associates), Lizy Huyghe (acme)				

Matters Arising		Action
1	MC explained the foul water drainage strategy. LN requested that evidence be provided within the planning submission that the foul water discharge location and flow rate are acceptable to Anglian Water (AW). MC said the relevant correspondence with AW will be appended to the Foul Water Drainage Strategy report.	
2	LN requested that the Foul Water Drainage Strategy include a detail for the final connection from the rising main discharge chamber on the cycle path south of Cowley Road. This section to show the pipe route underneath the First Public Drain (FPD) open channel then underneath Cowley Road to the AW connection manhole.	MC
3	<ul> <li>MC outlined what he had discussed with Harry Pickford regarding the Surface Water Drainage Strategy on the telephone on 12<sup>th</sup> January 2022, as follows:         <ul> <li>The overflow culvert to the FPD is under riperian ownership;</li> <li>As part of the new diversion to the FPD culvert an Ordinary Watercourse Consent from Cambridgeshire County Council must be submitted;</li> <li>The easement around the culvert to be 5m total width from the centreline of the culvert; and</li> <li>Providing every effort has been made to maximise the surface water attenuation on the site then the LLFA will considering raising the final discharge rate above the 2.0 l/s/ha stated in the local legislation.</li> </ul> </li> </ul>	
4	MC explained the reasons why Catchment 1 was added to the existing surface water pumping station, namely that there were concerns that the full attenuation for the residential area (Catchment 2) could be provided within the residential area central courtyard (or elsewhere in Catchment 2) and then drain by gravity to Swale Street swale and the FPD.	
5	LN questioned the location of the red line boundary and whether the swale/tank on the busway hard shoulder was within the application area.  Post-Meeting Note: MC forwarded the current acme red line boundary drawing to LN showing the hard shoulder to be within the planning boundary.	
6	MC explained the additional SuDs benefits now shown in Catchments 1, 3 and 4 in the form of green/brown roofs, raingardens and tree pit root cell attenuation.  *Post-Meeting Note:* Details on tree root cell attenuation product can be found on the page link <a href="ArborCell - GreenBlue Urban">ArborCell - GreenBlue Urban</a> .	



Matters Arisin	g	Action
	MC explained the difficulties within Catchments 3, 4 and 6 with providing the required attenuation volume to limit the final surface water discharge rate to 2.0 l/s/ha.	
	The tank within Catchment 6 is constrained by the adjacent FPD culvert and conflicts with the following:	
	<ul> <li>The proposed multi-utility trench (MUT) of 3m width within the highway to serve Buildings S7 and S9/10</li> </ul>	
	The proposed tree pits and rain gardens (above or adjacent to tank)	
7	The tank within Catchment 3 beneath Chesterton Square which is constrained by the need to drain into Swale St swale by gravity and clashes with the following:	MC
	<ul> <li>The pipe network required to feed the fountain feature</li> <li>The tree features within the Square</li> </ul>	
	LN stated there could be some flexibility regarding the discharge rate from the existing development i.e. Catchment 6 but not from the new development i.e. Catchment 3 (which should remain limited to 2.0 l/s/ha).	
	MC to look at the tanks within Catchments 3 and 6 again in light of this discussion.	
8	LN requested MC look at water quality treatment options for the temporary car park runoff adjacent to the basin north of Cowley Rd.	MC
9	LN requested the drainage strategy report/drawing make it clearer that Catchment 5 has been developed already and the raingardens draining Milton Avenue highway runoff are existing.	МС
10	LN requested MC look at any remaining footprint within Catchments 3, 4 and 7 where permeable paving surfaces could be provided.	MC



### Appendix G Environment Agency Flood Data

#### creating a better place



Paul Bacchus @pja.co.uk

Our ref Date EAn/2021/232588 30 September 2021

Dear Paul,

Enquiry regarding Product 4 for Milton Avenue (cycleway), Barnwell, Milton, (North) Cambridge, Cambridgeshire, East of England, England, CB4 0AE

Thank you for your enquiry which was received on 3<sup>rd</sup> September 2021.

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

#### 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: <a href="https://flood-map-for-planning.service.gov.uk">https://flood-map-for-planning.service.gov.uk</a>

#### **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: <a href="https://flood-warning-information.service.gov.uk/long-term-flood-risk/map">https://flood-warning-information.service.gov.uk/long-term-flood-risk/map</a>

The information we hold and a copy of the Flood Risk Assessment (FRA) advisory note is attached to my email.

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

Name	Product 4
Description	Detailed Flood Risk Assessment Map for Milton Avenue (cycleway),
	Barnwell, Milton, (North) Cambridge, Cambridgeshire, East of
	England, England, CB4 0AE
Licence	Open Government Licence
Information	The maps provided are to be used in conjunction with the <b>Datasheet</b> .
Warnings	Please read the Datasheet and take note of information contained
	within the 'Important Information' section.
Information	The mapping of features provided as a background in this product is
Warning - OS	© Ordnance Survey. It is provided to give context to this product. The
background	Open Government Licence does not apply to this background
mapping	mapping. You are granted a non-exclusive, royalty free, revocable
	licence solely to view the Licensed Data for non-commercial
	purposes for the period during which the Environment Agency makes
	it available. You are not permitted to copy, sub-license, distribute, sell
	or otherwise make available the Licensed Data to third parties in any
	form. Third party rights to enforce the terms of this licence shall be
	reserved to OS.

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

Email: enquiries@environment-agency.gov.uk

Website: https://www.gov.uk/government/organisations/environment-agency



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	and/or database rights.
	Contains Ordnance Survey data © Crown copyright 2017 Ordnance
	Survey 100024198.

#### **Data Available Online**

Many of our flood datasets are available online:

- Flood Map For Planning (<u>Flood Zone 2</u>, <u>Flood Zone 3</u>, <u>Flood Storage Areas</u>, <u>Flood Defences</u>, <u>Areas Benefiting from Defences</u>)
- Risk of Flooding from Rivers and Sea
- Historic Flood Map
- Current Flood Warnings

#### What's In Your BackYard (WIYBY) is no longer available

Most of the data is still available via other sharing services such as <u>DATA.GOV.UK</u>, <u>MAGIC</u> <u>map</u> and new <u>GOV.UK</u> <u>digital services</u>. 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 here.

For any other enquiries please send your request to us at: Enquiries EastAnglia@environment-agency.gov.uk.

#### 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 <a href="https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion">https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion</a> and email it to our Sustainable Places team at: <a href="mailto:planning.brampton@environment-agency.gov.uk">planning.brampton@environment-agency.gov.uk</a>. 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 <u>website</u>.

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 020 8474 5242 (West).

#### East Anglia Area

Ipswich Öffice, Iceni House, Cobham Road, Ipswich, Suffolk, IP3 9JD Brampton Office, Bromholme Lane, Brampton, Huntingdon, PE28 4NE

General Enquiries: 03708 506506

Email: enquiries@environment-agency.gov.uk

Website: https://www.gov.uk/government/organisations/environment-agency

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

L. Ecclestone

#### **Lisa Ecclestone**

#### **Customers and Engagement Officer**

Direct dial: 02030 255472

Ipswich Office, Iceni House, Cobham Road, Ipswich, Suffolk, IP3 9JD Brampton Office, Bromholme Lane, Brampton, Huntingdon, PE28 4NE

General Enquiries: 03708 506506

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#### Flood risk assessments: Climate change allowances

#### Application of the allowances and local considerations

East Anglia; Essex, Norfolk, Suffolk, Cambridgeshire and Bedfordshire

#### 1) The climate change allowances

The National Planning Practice Guidance refers planners, developers and advisors to the Environment Agency guidance on considering climate change in Flood Risk Assessments (FRAs). This guidance was updated in February 2016 and is available on Gov.uk. The guidance can be used for planning applications, local plans, neighbourhood plans and other projects. It provides climate change allowances for peak river flow, peak rainfall, sea level rise, wind speed and wave height. The guidance provides a range of allowances to assess fluvial flooding, rather than a single national allowance. It advises on what allowances to use for assessment based on vulnerability classification, flood zone and development lifetime.

#### 2) Assessment of climate change impacts on fluvial flooding

Table A below <u>indicates</u> the level of technical assessment of climate change impacts on fluvial flooding appropriate for new developments depending on their scale and location. This should be used as **a guide only**. Ultimately, the agreed approach should be based on expert local knowledge of flood risk conditions, local sensitivities and other influences. For these reasons we recommend that applicants and / or their consultants should contact the Environment Agency at the preplanning application stage to confirm the assessment approach, on a case by case basis. Table A defines three possible approaches to account for flood risk impacts due to climate change, in new development proposals:

- Basic: Developer can add an allowance to the 'design flood' (i.e. 1% annual probability) peak levels to account for potential climate change impacts. The allowance should be derived and agreed locally by Environment Agency teams.
- Intermediate: Developer can use existing modelled flood and flow data to construct a stage-discharge rating curve, which can be used to interpolate a flood level based on the required peak flow allowance to apply to the 'design flood' flow.
- **Detailed:** Perform detailed hydraulic modelling, through either re-running Environment Agency hydraulic models (if available) or construction of a new model by the developer.

Table A – Indicative guide to assessment approach

VULNERABILITY	FLOOD	DEVELOPMENT TYPE			
CLASSIFICATION	ZONE	MINOR	SMALL-MAJOR	LARGE-MAJOR	
FOOFNITIAL	Zone 2	Detailed			
ESSENTIAL INFRASTRUCTURE	Zone 3a	Detailed			
INTRASTRUCTURE	Zone 3b	Detailed			
	Zone 2	Intermediate/ Basic	Intermediate/ Basic	Detailed	
HIGHLY VULNERABLE	Zone 3a	Not appropriate development			
VULNERABLE	Zone 3b	Not appropriate development			
MODE	Zone 2	Basic	Basic	Intermediate/ Basic	
MORE	Zone 3a	Intermediate/ Basic	Detailed	Detailed	
VULNERABLE	Zone 3b	Not appropriate developn	nent		
LESS	Zone 2	Basic	Basic	Intermediate/ Basic	
VULNERABLE	Zone 3a	Basic	Basic	Detailed	
VULNERABLE	Zone 3b	Not appropriate developn	nent		
WATER	Zone 2	None			
WATER	Zone 3a	Intermediate/ Basic			
COMPATIBLE	Zone 3b	Detailed			

Note: Where the table states 'not appropriate development', this is in line with national planning policy. If in exceptional circumstances such development types are proposed in these locations, we would expect a detailed modelling approach to be used.

#### **NOTES:**

- Minor: 1-9 dwellings/ less than 0.5 ha | Office / light industrial under 1 ha | General industrial under 1 ha | Retail under 1 ha | Gypsy/traveller site between 0 and 9 pitches
- Small-Major: 10 to 30 dwellings | Office / light industrial 1ha to 5ha | General industrial 1ha to 5ha | Retail over 1ha to 5ha | Gypsy/traveller site over 10 to 30 pitches
- Large-Major: 30+ dwellings | Office / light industrial 5ha+ | General industrial 5ha+ | Retail 5ha+ | Gypsy/traveller site over 30+ pitches | any other development that creates a non residential building or development over 1000 sq m.

The assessment approach should be agreed with the Environment Agency as part of preplanning application discussions to avoid abortive work.

#### 3) Specific local considerations

Where the Environment Agency and the applicant and / or their consultant has agreed that a 'basic' level of assessment is appropriate the figures in Table B below can be used as a precautionary allowance for potential climate change impacts on peak 'design' (i.e. 1% annual probability) fluvial flood level rather than undertaking detailed modelling.

Table B – Local precautionary allowances for potential climate change impacts

Essex, Norfolk and Suffolk

Hydraulic Model (Watercourse)	Central	Higher Central	Upper
Blackwater & Brain -	500mm	600mm	900mm
Blackwater between TL7520925623 and			
TL7820324314			
Brain between TL7373323312 and TL7683821321			
Chelmer - between TL6872107082 and	350mm	450mm	750mm
TL7161609422 and TL7436306592			
Colne (Model Extent)	450mm	600mm	950mm
Gipping – Downstream of Needham Market	400mm	500mm	850mm
Gipping – Needham Market and upstream including Somersham W/C	200mm	250mm	400mm
Norwich Downstream of TG2332009072	450mm	600mm	950mm
Norwich Upstream of TG2332009072	600mm	800mm	1200mm
Wensum (Model Extent)	400mm	500mm	800mm
Yare (Model Extent)	200mm	250mm	450mm
Broads (2008 Model Extent)		ne current 1 in 1000	
Bure and Ant (2012 Model Extent)			
Other main rivers, tributaries and ordinary watercourses	probability including climate change allowance For other main rivers, tributaries and ordinary watercourses that are not stated above, basic allowances have not been calculated. In this instance you can either:  • If flow data is available you can request data from us and can conduct an intermediate assessment yourself  • Or alternatively, you can choose to undertake a Detailed Assessment and "perform detailed hydraulic modelling, through either re-running our hydraulic models (if available) or constructing a ne		

#### Cambridgeshire and Bedfordshire

Watercourse / Model	Central	Higher Central	Upper End
Alconbury Brook	600mm	700mm	900mm
River Kym			
Lower Ouse (Model	700mm	800mm	1100mm
Extent)			
Mid Ouse (Cold	700mm	800mm	1100mm
Brayfield to Bromham –			
between			
SP9156852223 and			
TL0132950919)			
Mid Ouse (East of	700mm	850mm	1200mm
Bedford to Roxton –			
between			
TL0791848903 and			
TL1618854543)			
River Hiz and River	400mm	450mm	550mm
Purwell			
River Ivel	500mm	600mm	750mm
Pix Brook	450mm	500mm	600mm
Potton Brook	500mm	600mm	700mm
River Cam and	600mm	700mm	950mm
tributaries (excluding			
the Cam Lodes and the			
Slade System)			
Great Barford (ordinary	500mm	550mm	650mm
watercourses)			
Bromham (ordinary	550mm	650mm	850mm
watercourse)			

#### **NOTES:**

Urban areas excluded from the 'basic' approach: St Ives, Holywell, Godmanchester, Swavesey, Over, Bedford, Newport Pagnell, Buckingham and Leighton Buzzard. More detailed assessment of climate change allowances will need to be undertaken in these locations.

Use of these allowances will only be accepted after discussion with the Environment Agency.

#### 4) Fluvial food risk mitigation

For planning consultations where we are a statutory consultee and our <u>Flood risk standing</u> advice **does not** apply we use the following benchmarks to inform flood risk mitigation for different vulnerability classifications. <u>These are a guide only</u>. We strongly recommend you contact us at the pre-planning application stage to confirm this on a case by case basis. For planning consultations where we are not a statutory consultee or our <u>Flood risk Standing advice</u> applies we recommend local planning authorities and developers use these benchmarks but we do not expect to be consulted.

- For development classed as 'Essential Infrastructure' our benchmark for flood risk mitigation is
  for it to be designed to the 'upper end' climate change allowance for the epoch that most closely
  represents the lifetime of the development, including decommissioning.
- For highly vulnerable or more vulnerable developments in flood zone 2, the 'central' climate change allowance is our minimum benchmark for flood risk mitigation, and in flood zone 3 the 'higher central' climate change allowance is our minimum benchmark for flood risk mitigation. In sensitive locations it may be necessary to use the higher central (in flood zone 2) and the upper end allowance (in flood zone 3).
- For water compatible or less vulnerable development (e.g. commercial), the 'central' climate change allowance for the epoch that most closely represents the lifetime of the development is our minimum benchmark for flood risk mitigation. In sensitive locations it may be necessary to use the higher central (particularly in flood zone 3) to inform built in resilience.

For a visual representation of the above, please see Tables 1 and 2 overleaf.

#### 5) Development in Tidal Areas

There is no change to the way we respond to sites affected solely by tidal flood risk as the sea level allowances are unchanged.

#### 6) Our Service

#### Non-chargeable service

We will give a free opinion on:

- What climate change allowance to apply to a particular development type
- Which technical approach is suitable in the FRA

#### Chargeable service:

- Review of climate change impacts using intermediate and detailed technical approaches (i.e. modelling review)
- Assessment and review of proposals for managed adaptation.

Table 1 p				
River basin district	Allowance category	Total potential change anticipated for '2020s' (2015 to 39)	Total potential change anticipated for '2050s' (2040 to 2069)	Total potential change anticipated for '2080s' (2070 to 2115)
Anglian	Upper end	25%	35%	65%
	Higher central	15%	20%	35%
	Central	10%	15%	25%
Thames	Upper end	25%	35%	70%
	Higher central	15%	25%	35%
	Central	10%	15%	25%

#### Table 2: Using peak river flow allowances for flood risk assessments

Flood Zone	Essential Infrastructure	Highly Vulnerable	More Vulnerable	Less Vulnerable	Water Compatible
2	higher central and upper end allowances	higher central and upper end allowances	central and higher central allowances	central allowance	none of the allowances
3a	upper end allowance	Х	higher central and upper end	central and higher central	central allowance
3b	upper end allowance	Х	X	X	central allowance

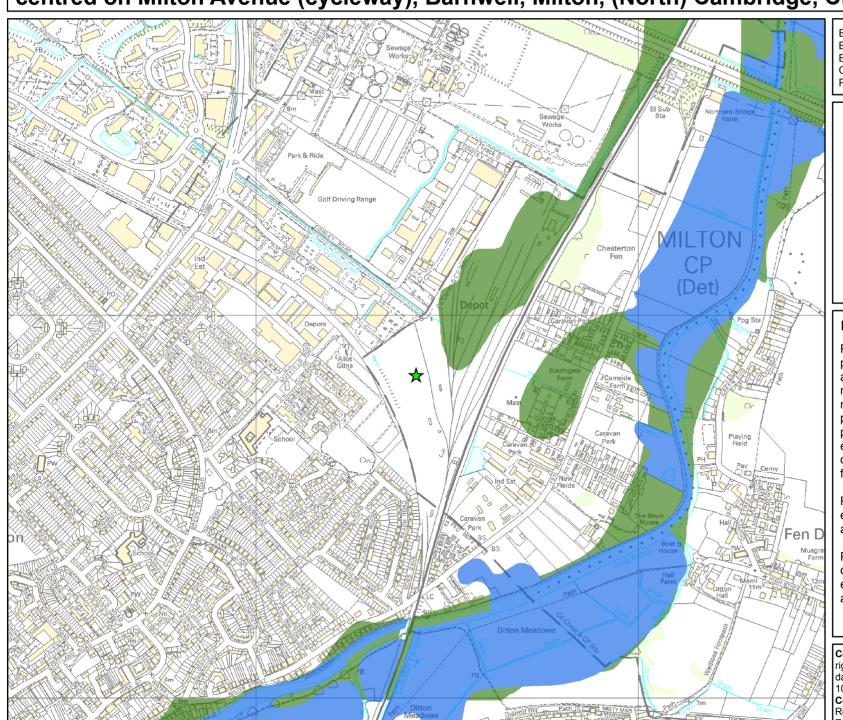
**X** – Development should not be permitted

There may be circumstances where local evidence supports the use of other data or allowances. Where you think this is the case we may want to check this data and how you propose to use it.

If (exceptionally) development is considered appropriate when not in accordance with flood zone vulnerability categories, then it would be appropriate to use the upper end allowance.

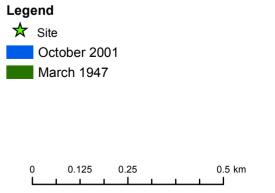
# Recorded Flood Event Outlines centred on Milton Avenue (cycleway), Barnwell, Milton, (North) Cambridge, CB4 0AE

NGR TL4741960842 Ref 232588 Created 10/09/2021



Environment Agency Bromholme Lane, Brampton, Cambridgeshire PE28 4NE





#### Information

Recorded Outlines - The recorded flood outlines provided are only indicative and may not accurately represent the area that flooded in the named events. Our historic flood event outlines do not provide a definitive record of flooding. It is possible that there will be an absence of datail in places where we have not been able to record the extent of flooding. It is also possible for errors occur in the digitisation of historic records of flooding.

Recorded Outlines - There may be other flood events that have occurred that we have not been able to produce an outline for.

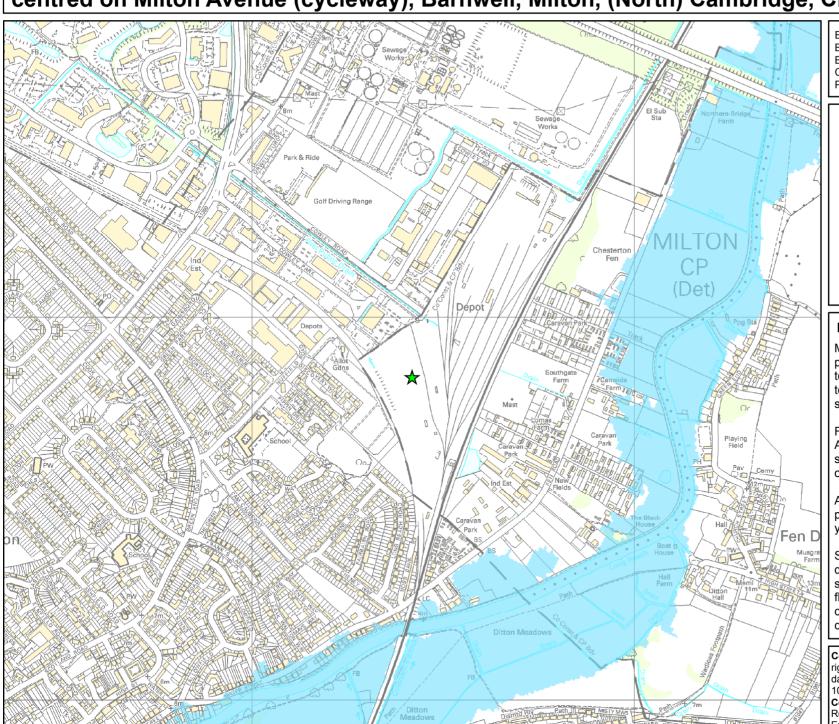
Recorded Outlines - The historic flood event outlines are based on a combination of anecdotal evidence, Environment Agency staff observations and survey.

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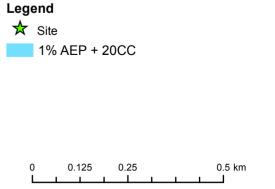
# Defended Climate Change Model Flood Outlines centred on Milton Avenue (cycleway), Barnwell, Milton, (North) Cambridge, CB4 0AE

NGR TL4741960842 Ref 232588 Created 10/09/2021



Environment Agency Bromholme Lane, Brampton, Cambridgeshire PE28 4NE





#### 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.

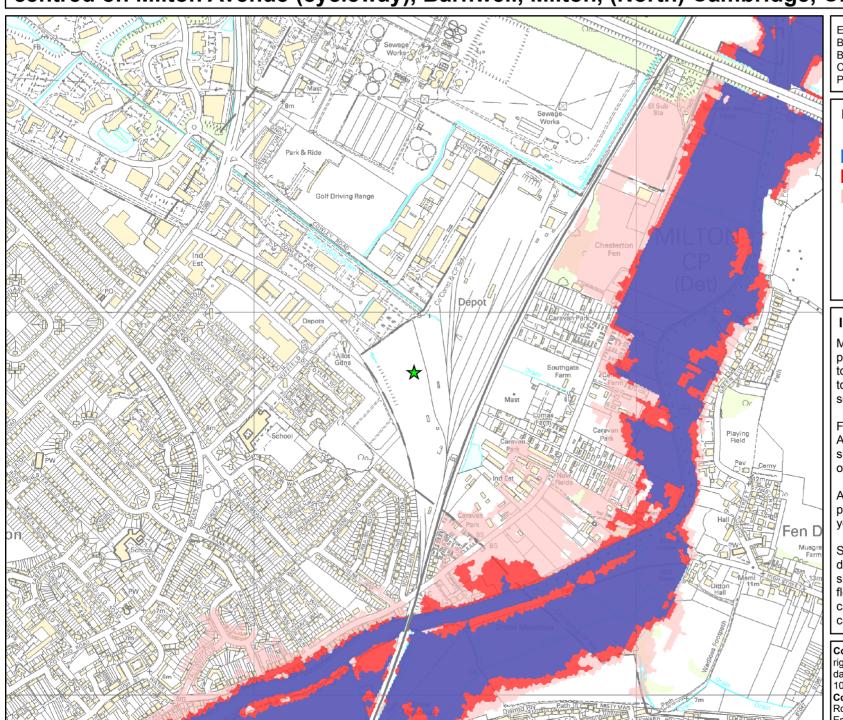
Strategic Scale Model - This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences if present.

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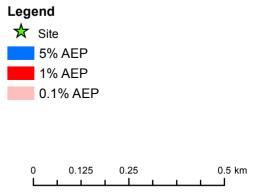
## Defended Model Flood Outlines centred on Milton Avenue (cycleway), Barnwell, Milton, (North) Cambridge, CB4 0AE

NGR TL4741960842 Ref 232588 Created 10/09/2021



Environment Agency Bromholme Lane, Brampton, Cambridgeshire PE28 4NE





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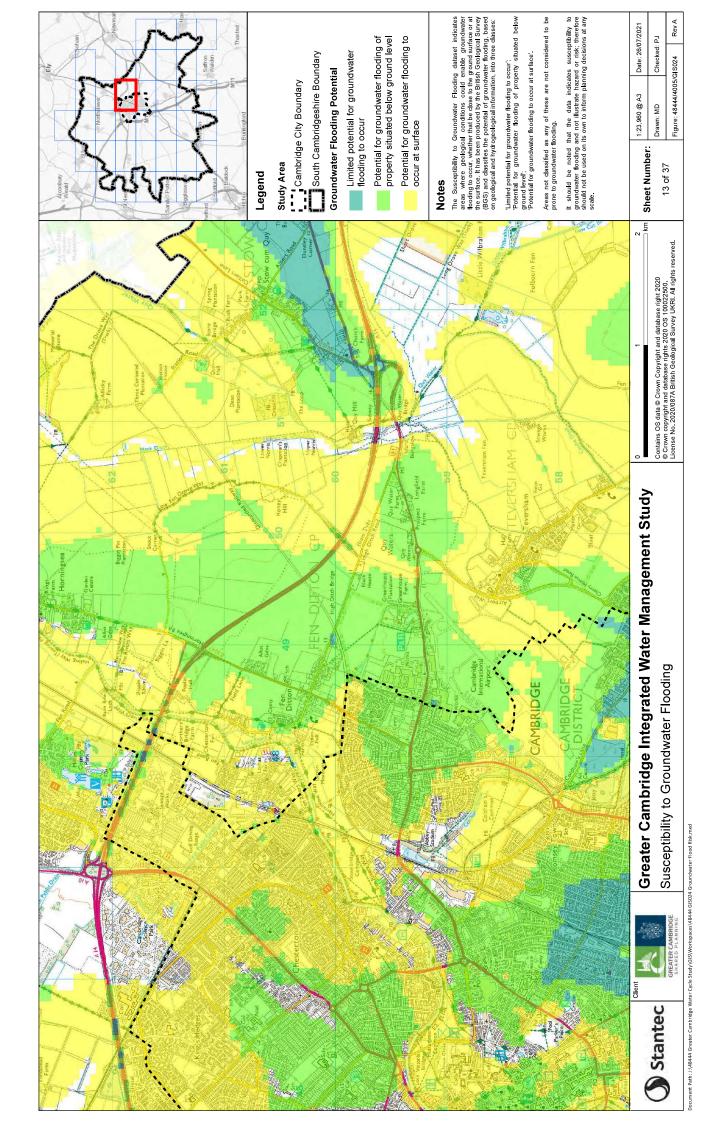
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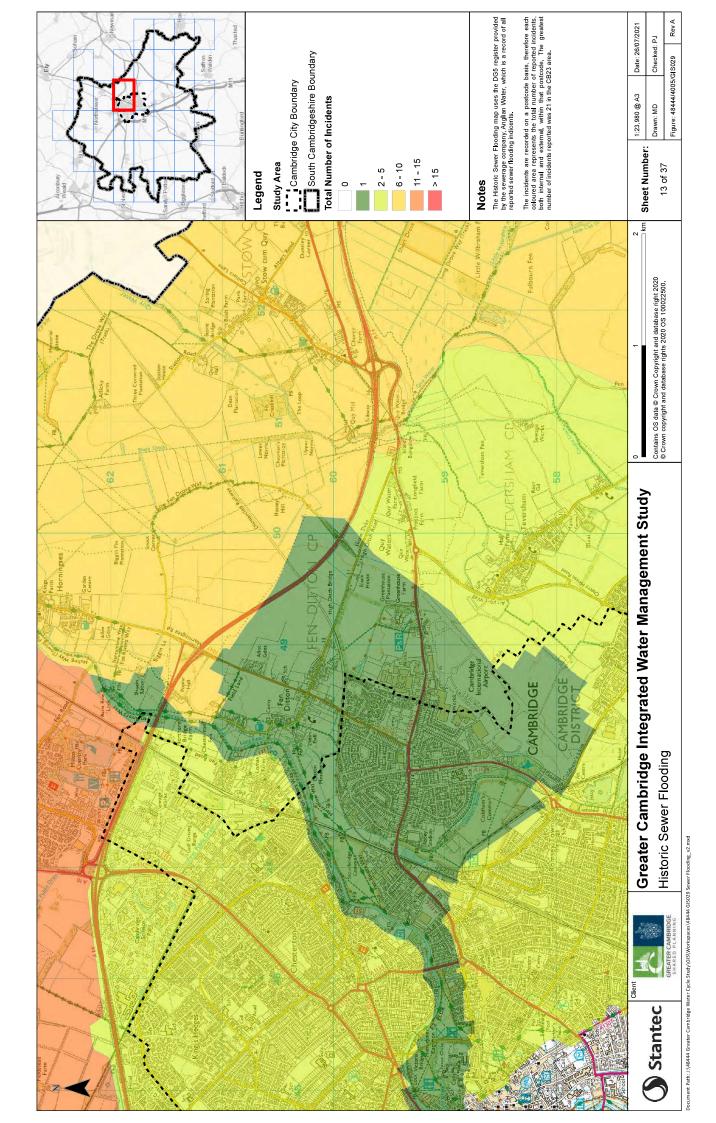
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### Appendix H SFRA Flood Mapping Images







### Appendix I Surface and Foul Water Drainage Strategy Drawings