Appendix E EA Product 4 Data

creating a better place
for people and wildlife

Environment Agency

Katy Scott

[redacted]

Our ref: EIR2025/34993
Your ref: 332612820
Date: 31 October 2025

Dear Katy Scott,

RE: Environmental Information Regulations: EIR2025/34993

Thank you for your request for information regarding product 4: NM5HTEPG6P4X for postcode CB3 9LH (542603, 257967), which we received on 7 October 2025.

We respond to requests for information that we hold under the Environmental Information Regulations 2004 (EIR). The Regulations requires that we respond to requests by advising you whether information is held or not, and if so by providing you with that information.

1) A detailed flood map for the site and surrounding area, to include the floodplains for the 1 in 20 year, 1 in 100 year and 1 in 1,000 year floodplains with and without climate change and any other available return periods. This should be provided as part of ***EA Product 4****: Detailed FRA Map for the local area which* ***MUST*** *include the following (where the data is available):*

- *Ordnance Survey 1:25k colour raster base mapping*
- *Flood Zone 2 and Flood Zone 3*
- *Model node locations for the adjacent watercourse to the site and unique identifiers*
- *Extents of the modelling for the adjacent watercourse to the site*
- *Flood defence locations, levels, unique identifiers and any areas benefiting from defences*
- *Locations of any flood storage areas*
- *Historic flooding information and flood outlines with unique identifiers*
- *Statutory (Sealed) Main River extents*
- *A table showing: o Model node X/Y coordinate locations, unique identifiers, levels, flows and JFLOW (or other modelled) flood depths*

o Flood defence locations unique identifiers and attributes
o Historic flood events outlines unique identifiers and attributes
o Local flood history data

2) Details of any historic flooding in the vicinity of the site (to include written reports, photos, flood extent outlines, duration, return period etc., and commentary on the source/mechanisms of flooding and also including information relating to antecedent conditions and confirmation of the month or season in which they occurred).

Recorded flood outlines can be found here:
https://www.cambridgeshire.gov.uk/business/planning-and-development/flood-and-water/flood-risk-management/flooding-and-flood-investigations This link takes you to the flood

reports of Cambridgeshire county Council. However, you may wish to go to the LLFA in the first instance if you would like Section 19 reports (where they exist).

Product 4:

Please see attached document.

Please note:

We can confirm that this site does not benefit from any Environment Agency maintained assets (walls or embankments).

We are not aware of any flood storage areas as the site is beyond main river.

Abstract

Name	Product 4
Description	Detailed Flood Risk Assessment Map for Easting/Northing: 542603, 257967 Postcode: CB3 9LH
Licence	Open Government Licence
Information Warning - OS background mapping	*The mapping of features provided as a background in this product is © Ordnance Survey. It is provided to give context to this product. The Open Government Licence does not apply to this background 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.*
Attribution	Contains Environment Agency information © Environment Agency and/or database rights. Contains Ordnance Survey data © Crown copyright 2025 Ordnance Survey OS AC0000807064.

Breach Data Unavailable

We hold no breach data for your site. Please refer to the appropriate Strategic Flood Risk Assessment (SFRA) from the relevant Local Planning Authority.

New National Model in Flood Map

The Flood Map for Planning (Rivers and Sea) for this area includes broadscale New National Modelling (NNM) developed for the updated National Flood Risk Assessment (NaFRA2). This modelling uses improved data and more advanced hydraulic techniques than previous versions; however, it remains a generalised tool intended to inform a high-level risk assessment.

Flood levels and depths are not currently available from NNM. Therefore, additional assessment is required for identifying whether an individual property will flood, or for use in site specific Flood Risk Assessments.

Where the Flood Map for Planning is used to inform development proposals, further assessment within the FRA, including appropriate climate change allowances, is required to provide reliable flood level, extent, and depth data for decision-making.

This risk-based approach will depend on the scale and nature of the proposed development, as well as the flood zone the proposed development is located in.

While the flood levels and depth data from our New National Model are not currently available, the outlines from the Flood Map for Planning can be downloaded from the DEFRA Data Services Platform: https://environment.data.gov.uk/

If would like to contact us again at a later date, we might be in a position to provide flood depth data associated with our New National Flood Risk Assessment system.

If you need further advice, you may wish to contact our Sustainable Places team at Planning.EastAnglia@environment-agency.gov.uk to set up a chargeable agreement to discuss your planning proposal further with our local flood risk team.

3) Information regarding any remedial works undertaken to alleviate flooding in the wider area.

Bin Brook bypass channel was constructed to alleviate flooding in and around the Gough Way Estate, it acts as flood relief channel once the Gough Way Culvert is at capacity.

4) Details of the flood defences which currently protect the site (e.g. standards of protection, ownership, condition and maintenance arrangements).

We can confirm that this site does not benefit from any Environment Agency maintained assets (walls or embankments).

5) Details of local hydraulic features/controls and hydrological influences that should be considered when undertaking a flood risk assessment (e.g. condition, capacity, ownership and maintenance arrangements).
6) Confirmation of any design requirements e.g. finished floor levels, mitigation measures, access.
8) Any further information regarding the watercourse in the vicinity of the site.
9) Details of any known setback (easement) from watercourses required for development within this area.

The normal bylaw distance as is always the case. Potentially bigger setbacks needed due to the depth and construction of the channel.

According to our records, the Environment Agency has no land ownership at the location shown outlined in red on the location map provided.

Please check the LPA's SFRA and supplementary planning documents (SPDs) for further information and our guidance on preparing an FRA here: Flood risk assessments: applying for planning permission - GOV.UK. Please also see the information written under the headings below.

If you would like more detailed, site-specific advice on flood risk, such as a review of your draft FRA, 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 https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion and email it to our Sustainable Places team at: planning.eastanglia@environment-agency.gov.uk

Design Requirements:
Any proposed flood resilient measures should follow current Government Guidance. For more information on flood resilient techniques, please see the Department for Communities and Local Government (DCLG) guidance document "Improving the Flood Performance of New Buildings – Flood Resilient Construction", which can be downloaded from the following

website: https://www.gov.uk/government/publications/flood-resilient-construction-of-new-buildings

Details of any known setback (easement) from watercourses:
Under the terms of the Environmental Permitting Regulations (EPR), a permit may be required from the Environment Agency for any proposed works or structures within the floodplain or in, under, over or within 8 metres from the top of the bank of the main river.
The EPR are a risk-based framework that enables us to focus regulatory effort towards activities with highest flood or environmental risk. Lower risk activities will be excluded or exempt and only higher risk activities will require a permit. Your proposed works may fall under one or more of the below:

- Exclusion
- Exemption
- Standard Rules Permit
- Bespoke permit.

Information on how to apply for a permit and application forms can be found on our website at: https://www.gov.uk/guidance/flood-risk-activities-environmental-permits
Anyone carrying out a flood risk activity without a permit where one is required, is breaking the law.

Surface water flood risk:
You can check your flood risk, including surface water risk online https://check-long-term-flood-risk.service.gov.uk/postcode
You may find this document helpful on surface water flooding https://www.gov.uk/government/publications/flood-risk-maps-for-surface-water-how-to-use-the-map but if you would like more information regarding surface water flooding, please consult the Lead Local Flood Authority (LLFA).

Please also note that other organisations such as the LLFA for the area, or Internal Drainage Boards (where they exist), may hold records for other sources of flooding.

7) Confirmation of EA flood warning areas/triggers/levels in the vicinity of the site.

The area of interest is partially within the following flood alert and flood warning areas, as shown on the attached map:

Target Area Code	TA Name	TA Description

052WAFBINBROOK	Bin Brook in Cambridgeshire	Bin Brook at Newnham in Cambridge
052FWFBBNEWNHAM1	Low lying areas close to Bin Brook at Newnham	Cambridge Rugby Union Football Club, Barton Road, Gough Way, Penarth Place, Herschel Road, Sylvester Road and Grange Road in Newnham
052FWFBBNEWNHAM2	Wider area at risk from Bin Brook at Newnham	Fulbrooke Road, Barton Road, Gough Way, Penarth Place, Wootton Way, Dane Drove, Sylvester Road and Robinson College in Newnham

The flood alert is triggered when levels on the Bin Brook reach 10.30 mAOD.
We consider issuing the flood warning 052FWFBBNEWNHAM1 when levels on the Bin Brook reach 10.50 mAOD. We expect property flooding to occur when levels rise above 11.20 mAOD.
We consider issuing the flood warning 052FWFBBNEWNHAM2 when levels on the Bin Brook reach 11.20 mAOD. We expect property flooding to occur when levels rise above 11.80 mAOD.

Groundwater
10) Details of any groundwater source protection zones and the nature of groundwater flow in the vicinity of the site i.e. Is the site located on an aquifer? Please provide indicative details of the ground conditions and level of water table if possible.

The site is located on unproductive, low permeability mudstone strata of the Gault Formation, which is therefore not classified as an aquifer. The site is not within an SPZ.

- The enquirer may also view Aquifer Designations using the Magic Map Application (defra.gov.uk) either using the 'Search for Layers' tool citing "Aquifer Designation Map", or by looking under "Landscape > Geology and Soils".
- Additionally, the enquirer may view Groundwater Vulnerability Zones using the Magic Map Application (defra.gov.uk) either using the 'Search for Layers' tool citing "Groundwater Vulnerability Map", or by looking under "Landscape > Geology and Soils".

11) Details of any known groundwater flooding issues.

The setting on unproductive strata indicates that a risk of groundwater flooding is very low.

Furthermore, you may also find further groundwater level information on the British Geological Survey website:

- Scanned hydrogeology maps - Viewer for scanned hydrogeology maps of the UK | British Geological Survey (BGS)
- Onshore borehole records - Geology of Britain viewer | British Geological Survey (BGS)

Regarding groundwater flooding, the Lead local flood authorities (LLFAs) have responsibilities for local flood risk (including groundwater) under the Flood and Water Management Act 2010. This Act gives LLFAs duties to prepare local flood risk management strategies and to co-operate with other risk management authorities, and powers to carry out local flood risk management. The LLFA is either the unitary authority or the county council for the area.

Here is a link to the Environment Agency/Local Government Association groundwater flooding guidance document: Flooding from groundwater - GOV.UK (www.gov.uk)

Surface Water – **This section should be redirected to the lead local Flood Authority (Cambridgeshire)**

12) The EA Flood Map for surface water for the wider site (indicating areas at risk in the 1 in 30 year and the 1 in 200 year storm events).

13) Details of any known surface water flooding at the site or nearby.

14) Details of any known capacity issues in the local highways drainage or surface water sewer systems.

We hold no information regarding details of any known capacity issues in the local highways drainage or surface water sewer systems as this is outside of our remit.

You may wish to contact the local authority and Anglian Water to see if they hold any relevant information regarding the local surface water sewer systems.

Data Licence: Where the data has been provided to you online as Open Data, full details of supporting information and licensing are available when you access the data.

For all other data provided, unless stated otherwise, please refer to the Open Government Licence available here: http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/ which explains the permitted use of this information.

Data not held:
We have considered parts of your request, as outlined above, under the provisions of the Environmental Information Regulations 2004 (EIR). The Act requires that we respond to requests by advising you whether or not information is held, and if so by providing you with that information.
EIR Regulation 3(2) states that information is held if it is in our possession and has been produced or received by us, or it is held by another person on our behalf at the time the request is received.

In this case, the information you have requested is not held by us. Therefore, we are refusing your request on the grounds that there is no information we can provide.

Where a request is for environmental information, the Regulations allow us to refuse to disclose it if the exception at EIR Regulation 12(4)(a) applies. The regulation states that a public authority may refuse to disclose environmental information to the extent that it does not hold that information when an applicant's request is received.

It is not possible for us to conduct a public interest balancing test because the reason for non-disclosure is that the information is not held.

Extra Information you may find useful

Planning Advice:
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 https://www.gov.uk/government/publications/pre-planning-application-enquiry-form-preliminary-opinion and email it to our Sustainable Places team at: planning.eastanglia@environment-agency.gov.uk. 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 online here: Flood risk assessments: applying for planning permission - GOV.UK

Climate change information:
The climate change data included in the models may not include the latest https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Data Available Online:
Many of our flood datasets are available online on the DEFRA Data Services Platform: https://environment.data.gov.uk/

Rights of appeal:
If you are not satisfied with our decision, you can contact us within two calendar months to ask for the decision to be reviewed. We will then conduct an internal review of our response to your request and give you our decision in writing within 40 working days.

If you are not satisfied with the outcome of the internal review, you can then make an appeal to the Information Commissioner Office, the statutory regulator for EIR and FOI. The address is: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire. SK9 5AF.

Tel: 0303 123 1113 (local rate) or 01625 545 745 (national rate) | Fax: 01625 524 510
Email: casework@ico.org.uk | Website: www.ico.org.uk

Yours sincerely,
East Anglia Area Customers and Engagement Team

To report environmental problems please visit www.gov.uk/report-environmental-problem or call the incident hotline on 0800 80 70 60.

Map showing flood alert and flood warning areas near land Southwest of Cambridge

Environment Agency

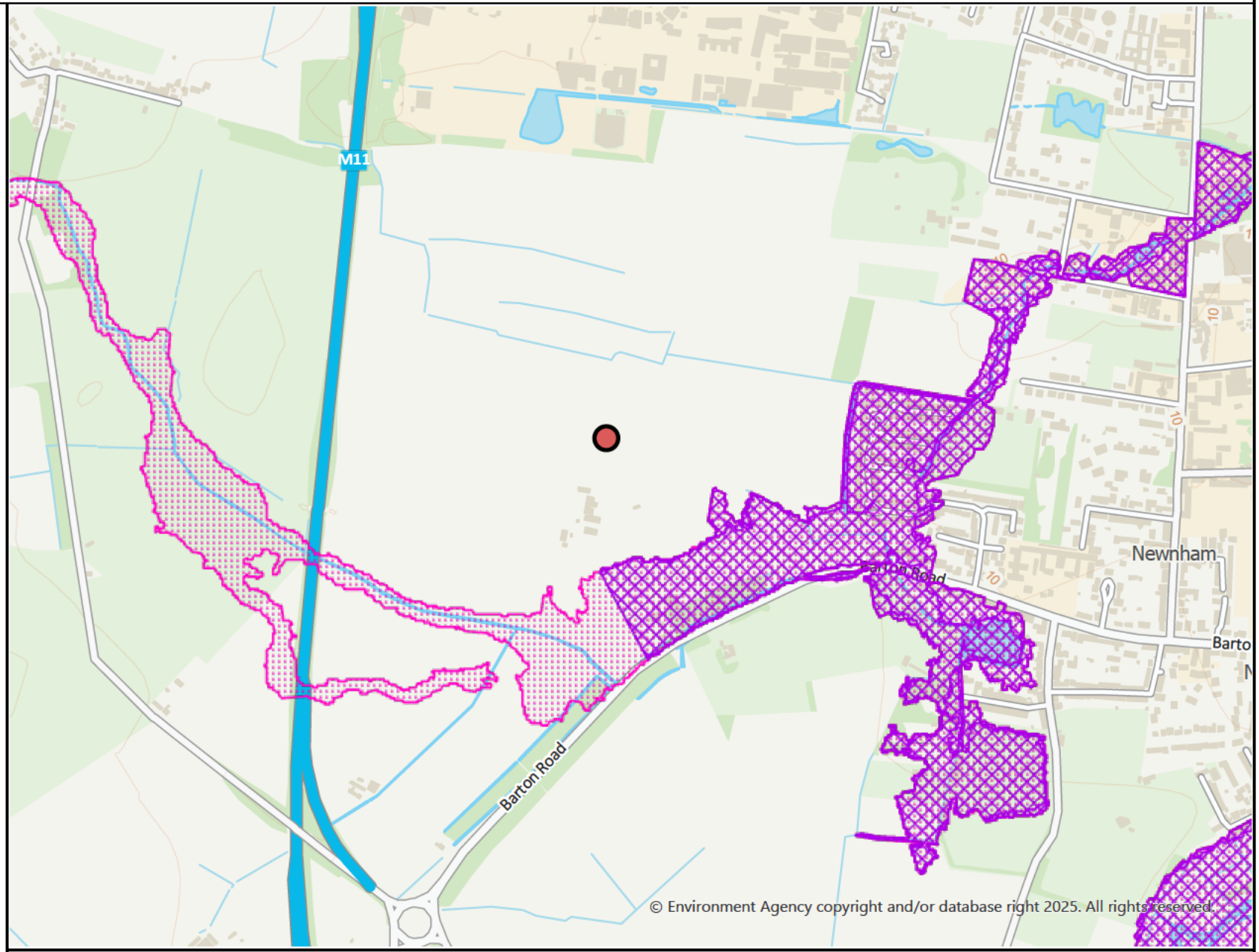
Flood Warning Areas

Flood Warning Areas

Flood Alert Areas

Flood Alert Areas

Override 1



Scale: 1:13,382

0 110 220 330 440 550 m

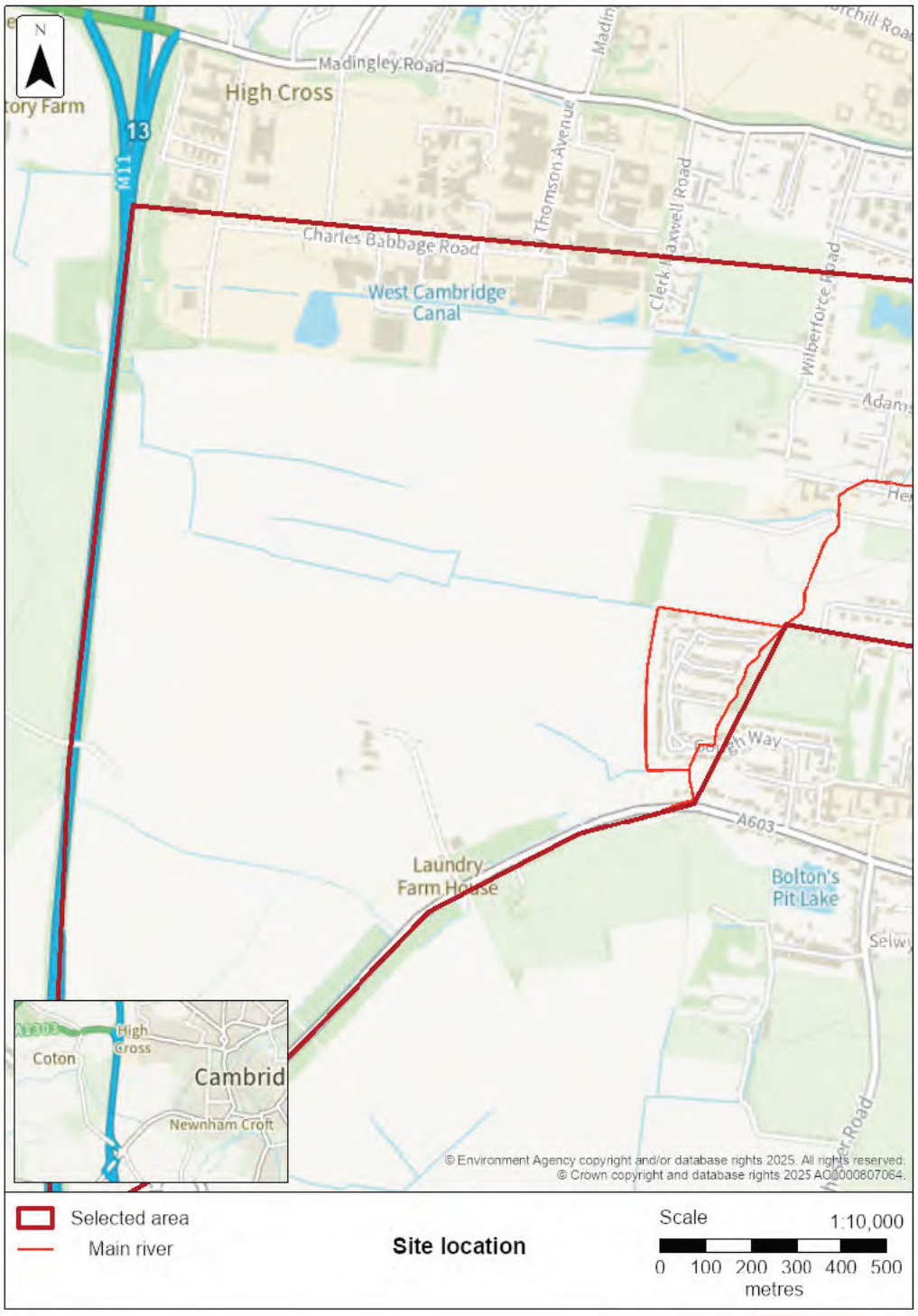
N

© Ordnance Survey Crown Copyright and Database Rights 2025 AC0000807064

Flood risk assessment data

Location of site: 542765 / 258117 (shown as easting and northing coordinates)
Document created on: 27 October 2025
This information was previously known as a product 4.
Customer reference number: 2UKAHVE795GM

Map showing the location that flood risk assessment data has been requested for.



How to use this information

You can use this information as part of a flood risk assessment for a planning application. To do this, you should include it in the appendix of your flood risk assessment.

We recommend that you work with a flood risk consultant to get your flood risk assessment.

Included in this document

In this document you'll find:

- how to find information about surface water and other sources of flooding
- information on the models used
- definitions for the terminology used throughout
- flood map for planning (rivers and the sea)
- past floods
- modelled data
- information about strategic flood risk assessments
- information about this data
- information about flood risk activity permits
- help and advice

Information that's unavailable

This document **does not** contain:

- flood defences and attributes

We aren't able to display flood defence locations and attributes as there are no formal flood defences in the area of interest.

Surface water and other sources of flooding

When using the surface water map on the check your long term flood risk service the following considerations apply:

- surface water extents are suitable for use in planning
- surface water climate change scenarios may help to inform risk assessments, but the available data fall short of what is required to assess planned development
- surface water depth information should not be used for planning purposes

To find out about other factors that might affect the flood risk of this location, you should also check:

- reservoir flood risk
- groundwater flood risk - you could use the British Geological Survey groundwater flooding data, groundwater: current status and flood risk and the guide on mining and groundwater constraints for development - further information may be available from the lead local flood authority (LLFA)
- your local planning authority's SFRA, which includes future flood risk

Your Lead Local Flood Authority is Cambridgeshire County.

For information about sewer flooding, contact the relevant water company for the area.

About the models used

Model name: EAn_Cam Package_Bin_Brook_JBA_2023
Scenario(s): No defences exist fluvial, no defences exist climate change fluvial
Date: 4 July 2022

This model contains the most relevant data for your area of interest.

Terminology used

Annual exceedance probability (AEP)

This refers to the probability of a flood event occurring in any year. The probability is expressed as a percentage. For example, a large flood which is calculated to have a 1% chance of occuring in any one year, is described as 1% AEP.

Metres above ordnance datum (mAOD)

All flood levels are given in metres above ordnance datum which is defined as the mean sea level at Newlyn, Cornwall.

Flood map for planning (rivers and the sea)

Your selected location is in flood zone 3.

Flood zone 3 shows the area at risk of flooding for an undefended flood event with a:

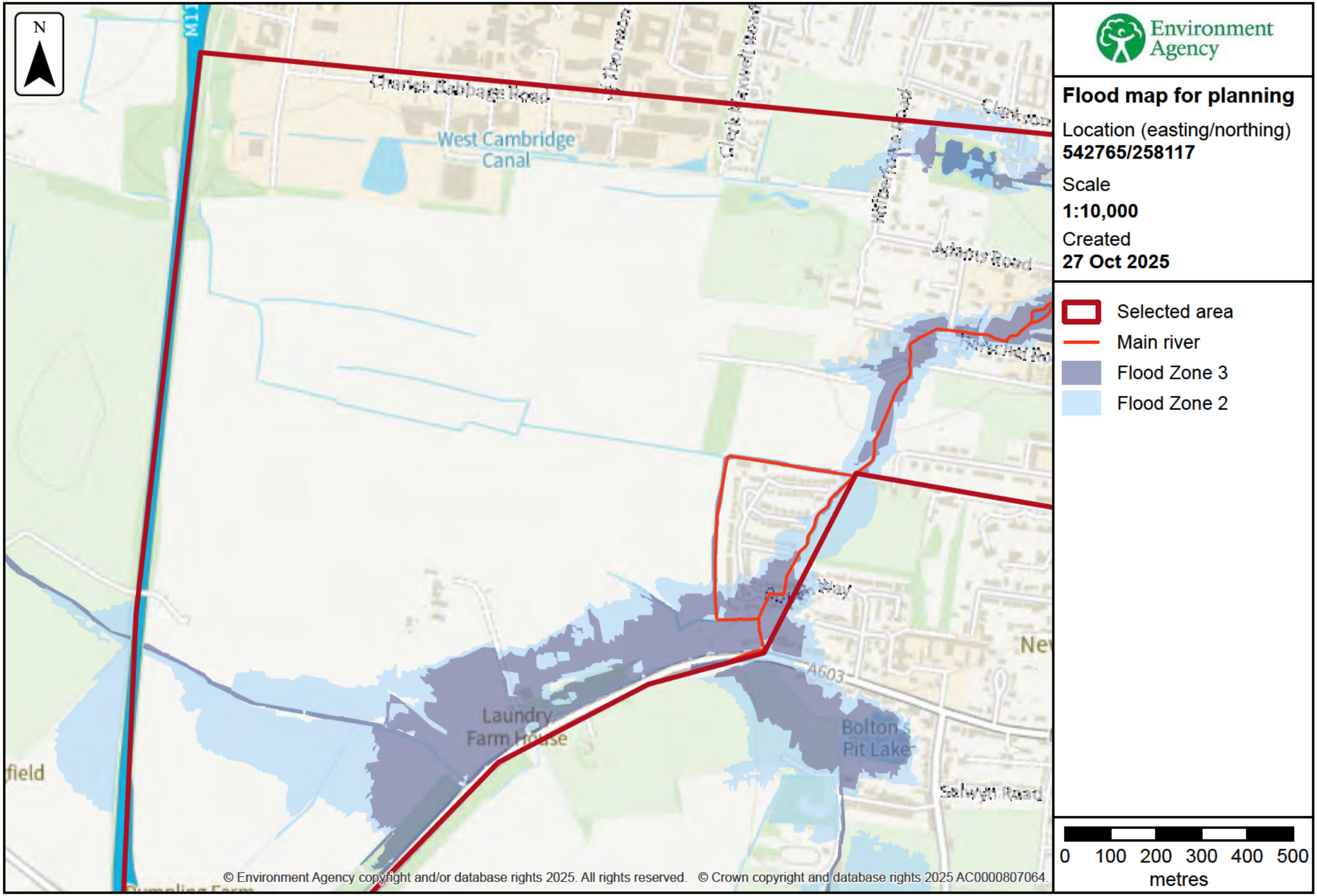
- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- between a 0.1% and 0.5% probability of occurring in any year for flooding from the sea
- between a 0.1% and 1% probability of occurring in any year for fluvial (river) flooding

It's important to remember that the flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties
- refer to the probability of river and sea flooding, ignoring the presence of defences
- do not take into account potential impacts of climate change



© Environment Agency copyright and/or database rights 2025. All rights reserved. © Crown copyright and database rights 2025 AC0000807064.

Past floods

Past flood events included in this document

The recorded flood outlines included in this document are for areas of land local to your site location that have been flooded by any of these sources:

- ephemeral water
- main rivers
- ordinary watercourses
- the sea
- unknown

Data limitations

The outlines do not include flooding from:

- drainage where rainfall has led to surface water ponding or overland runoff
- artificial, water-bearing sewer, water supply and wastewater treatment pipelines

Changes to flood defences

The defences (also known as assets) that were in place may also have changed. For example, assets may have been built more recently than the last recorded flood outline.

What the recorded flood outlines dataset is

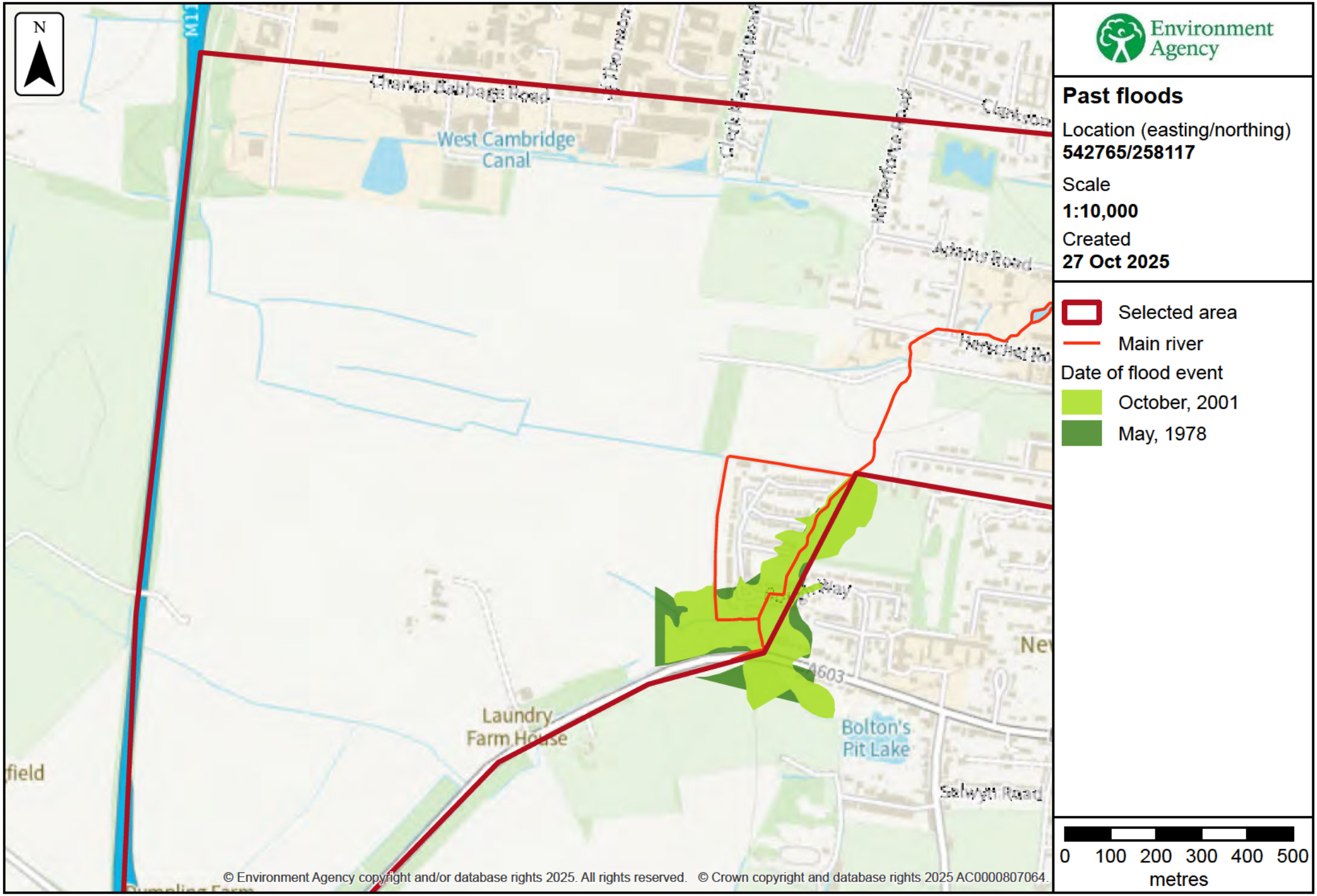
The recorded flood outlines are a geographical information system (GIS) data layer that show our verified records of areas that have flooded in the past from:

- rivers
- the sea
- groundwater
- surface water

Download the complete recorded flood outlines dataset, which includes data quality flags for outlines recorded after April 2020. This indicates the confidence we have in an outline.

Get flood information from other organisations

Contact Cambridgeshire County Lead Local Flood Authority (LLFA) and your drainage board to get information about past flooding caused by surface water or drainage systems.


N
West Cambridge Canal
Laundry Farm House
Bolton's Pit Lake
A603
Environment Agency
Past floods
Location (easting/northing)
542765/258117
Scale
1:10,000
Created
27 Oct 2025
Selected area
Main river
Date of flood event
October, 2001
May, 1978
0 100 200 300 400 500
metres
© Environment Agency copyright and/or database rights 2025. All rights reserved. © Crown copyright and database rights 2025 AC0000807064.

Data on past flood events

Start date	End date	Source of flood	Cause of flood	Affects location
21 October 2001	23 October 2001	main river	channel capacity exceeded (no raised defences)	Yes
5 May 1978	8 May 1978	unknown	channel capacity exceeded (no raised defences)	Yes

Modelled data

This section provides details of different scenarios we have modelled and includes the following (where available):

- outline maps showing the area at risk from flooding in different modelled scenarios
- modelled node point map(s) showing the points used to get the data to model the scenarios and table(s) providing details of the flood risk for different return periods
- map(s) showing the approximate water levels for the return period with the largest flood extent for a scenario and table(s) of sample points providing details of the flood risk for different return periods

Climate change

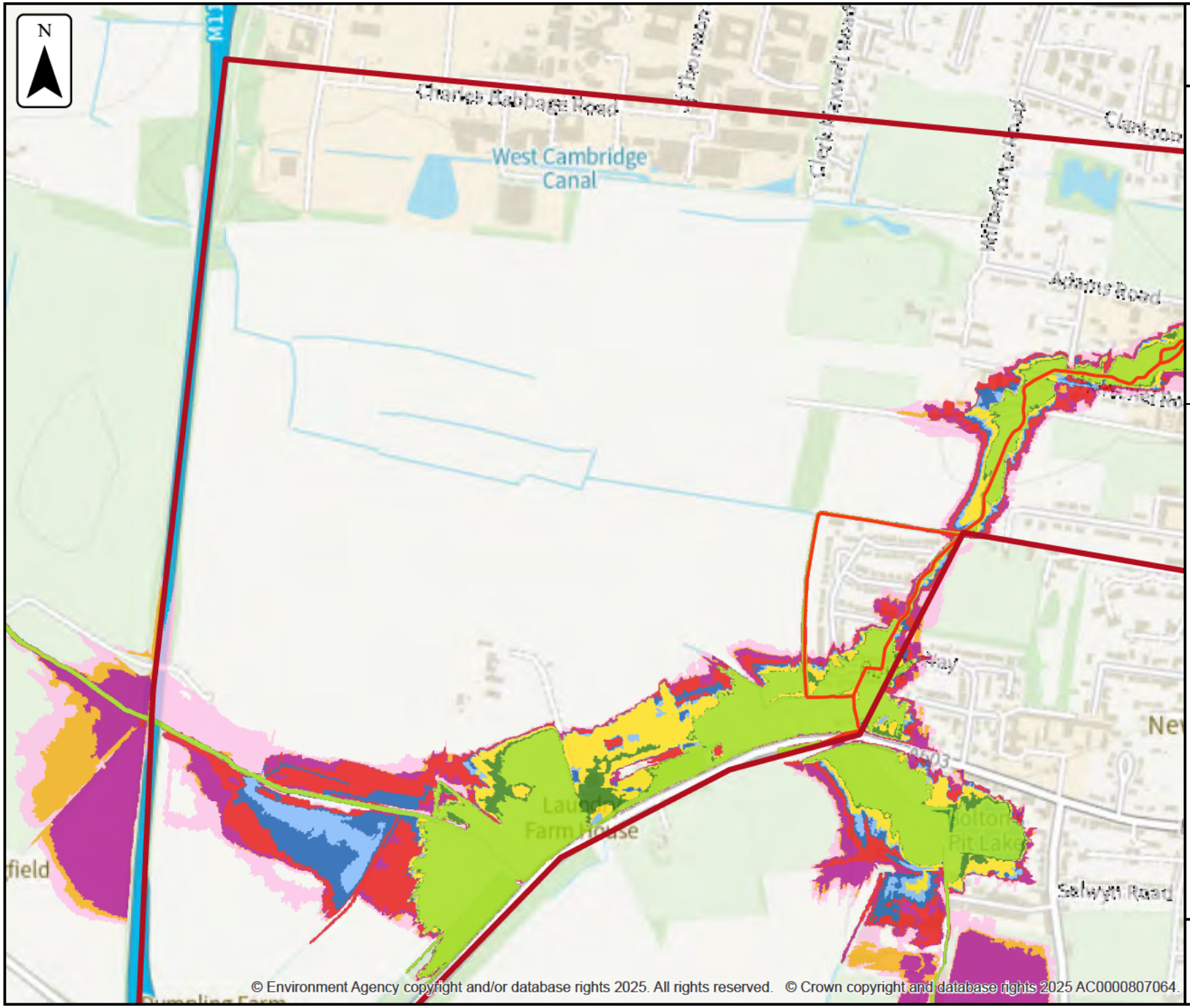
The climate change data included in the models may not include the latest flood risk assessment climate change allowances. Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Modelled scenarios

The following scenarios are included:

- No defences exist modelled fluvial: risk of flooding from rivers where there are no flood defences
- No defences exist climate change modelled fluvial: risk of flooding from rivers where there are no flood defences, including estimated impact of climate change



Environment Agency

No defences exist climate change modelled fluvial extent

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

Model name
EAn Cam Package Bin Brook JBA 2023

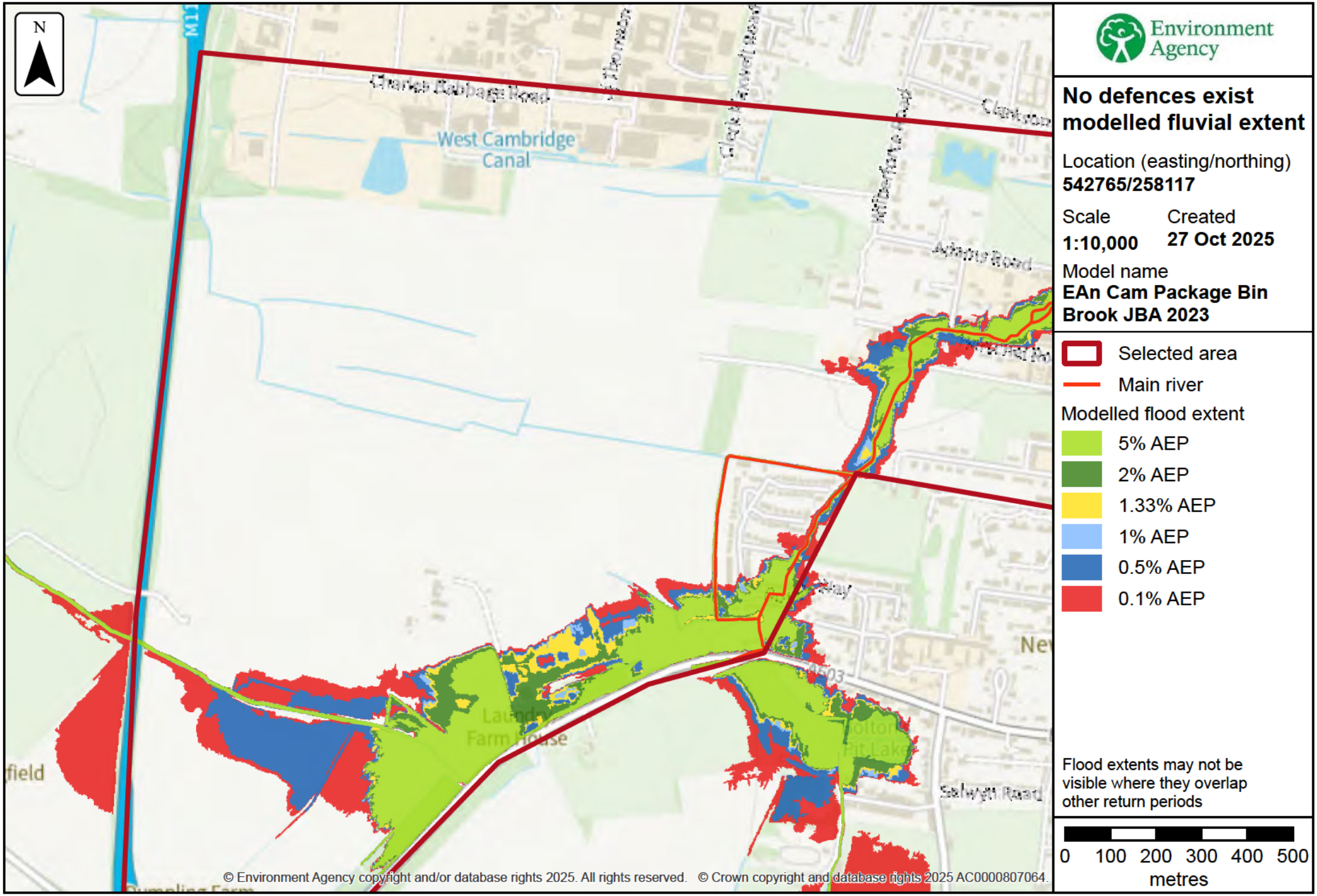
- Selected area
- Main river

Modelled flood extent

- 5% AEP (+9%)
- 5% AEP (+19%)
- 5% AEP (+45%)
- 1% AEP (+9%)
- 1% AEP (+19%)
- 1% AEP (+45%)
- 0.1% AEP (+9%)
- 0.1% AEP (+19%)
- 0.1% AEP (+45%)

Flood extents may not be visible where they overlap other return periods

0 100 200 300 400 500
metres



Environment Agency

No defences exist modelled fluvial extent

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

Model name
EAn Cam Package Bin Brook JBA 2023

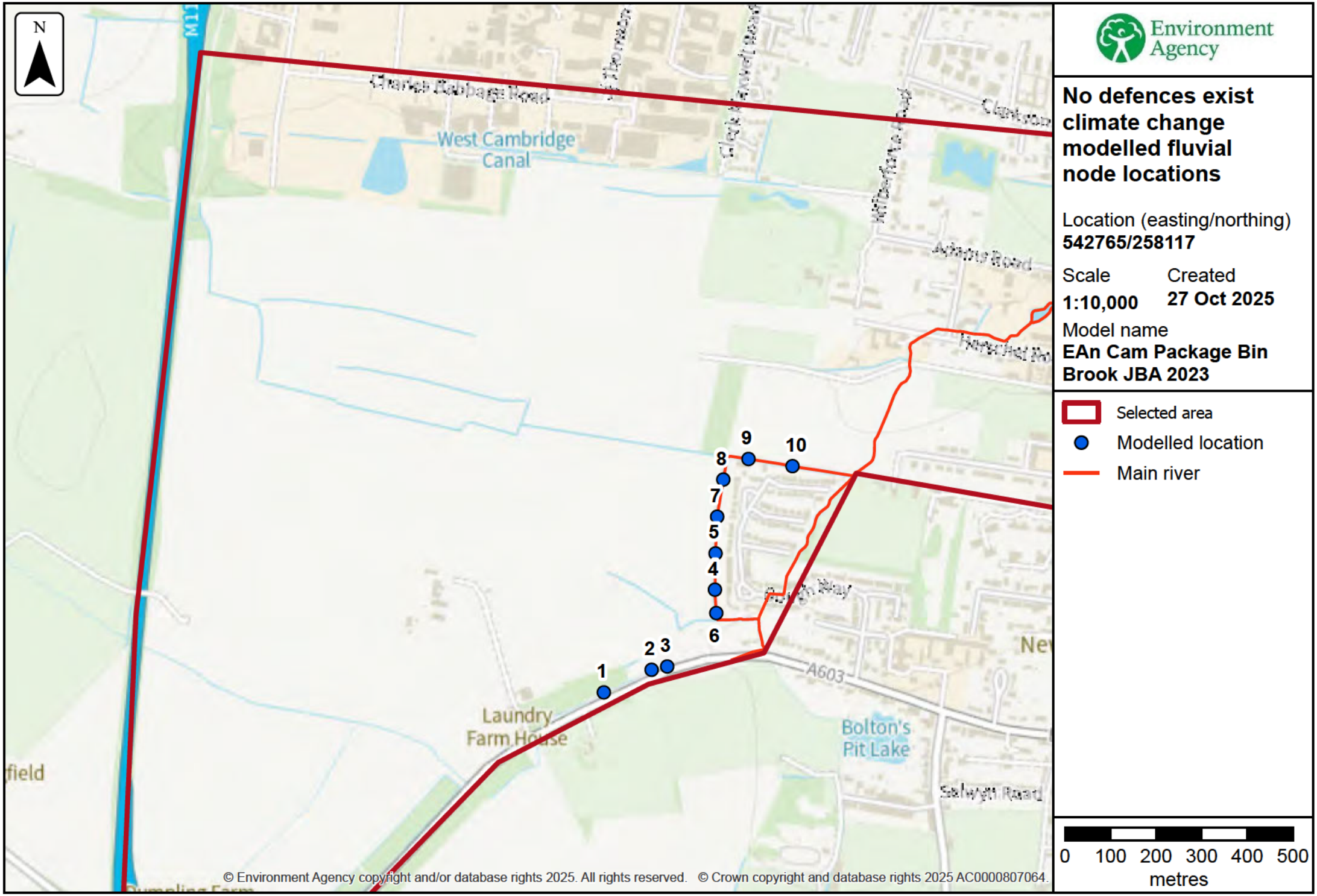
- Selected area
- Main river

Modelled flood extent

- 5% AEP
- 2% AEP
- 1.33% AEP
- 1% AEP
- 0.5% AEP
- 0.1% AEP

Flood extents may not be visible where they overlap other return periods

0 100 200 300 400 500
metres



Environment Agency

No defences exist climate change modelled fluvial node locations

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

Model name
EAn Cam Package Bin Brook JBA 2023

Selected area
Modelled location
Main river

0 100 200 300 400 500
metres

Modelled node locations data

No defences exist climate change

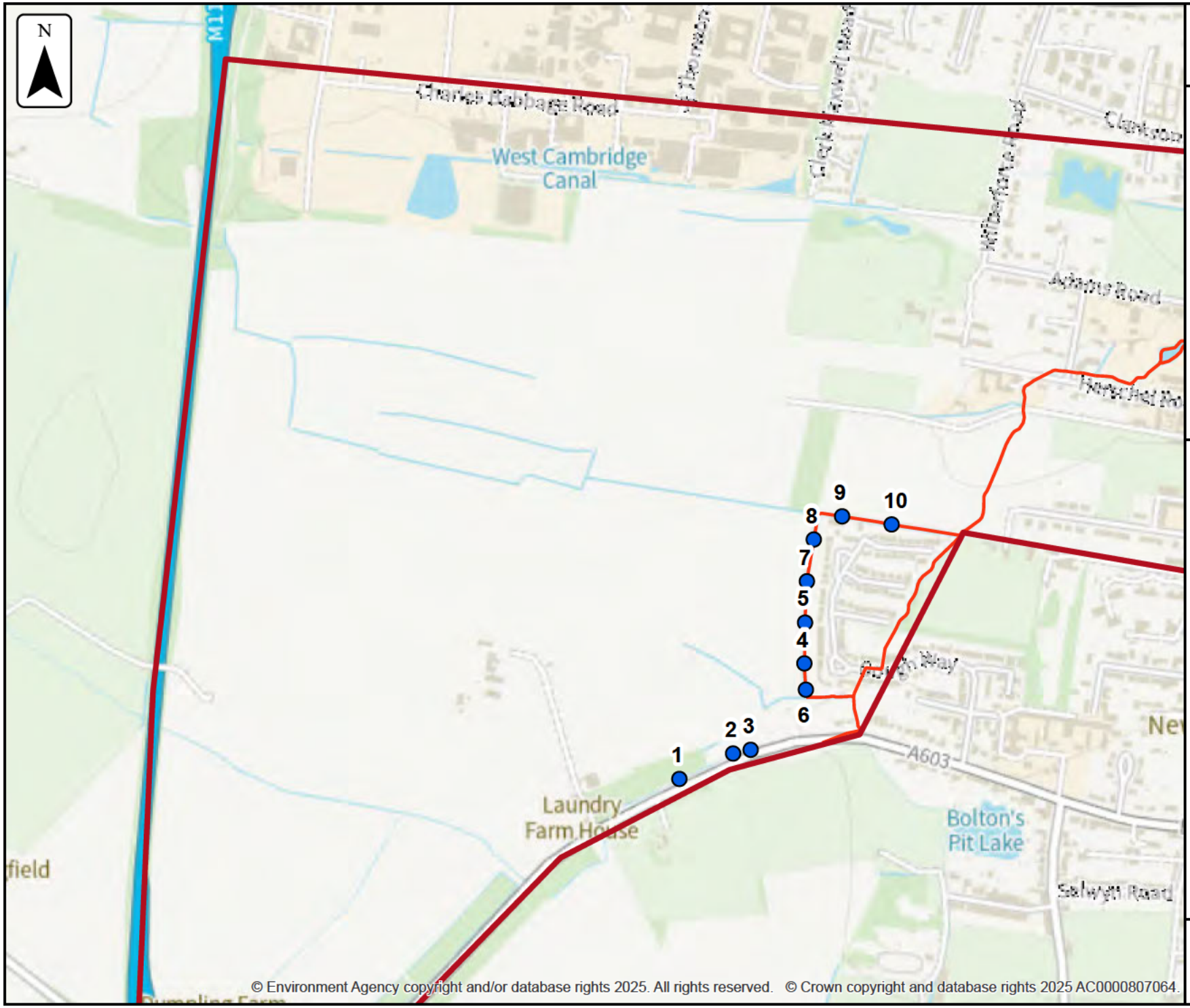
Label	Modelled location ID	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
				Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1471749	542929	257581	10.62	10.65	10.70	10.70	10.71	10.73	10.76	10.76	10.80
2	1471755	543034	257630	10.31	10.32	10.33	10.33	10.34	10.35	10.38	10.39	10.47
3	1471870	543068	257638	10.29	10.30	10.32	10.32	10.33	10.35	10.39	10.40	10.48
4	1471778	543173	257806	9.83	9.87	9.97	10.0	10.05	10.15	10.28	10.30	10.41
5	1471944	543174	257886	9.79	9.82	9.93	9.95	10.0	10.10	10.21	10.23	10.33
6	1471922	543176	257755	9.87	9.91	10.01	10.04	10.09	10.19	10.30	10.32	10.43
7	1471952	543178	257966	9.73	9.76	9.87	9.89	9.94	10.04	10.15	10.17	10.27
8	1471912	543191	258048	9.67	9.70	9.81	9.83	9.88	9.98	10.08	10.10	10.20
9	1471966	543247	258093	9.57	9.61	9.71	9.73	9.78	9.87	9.97	9.99	10.09
10	1471906	543343	258077	9.27	9.30	9.39	9.42	9.46	9.58	9.69	9.71	9.83

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.

No defences exist climate change

Label	Modelled location ID	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1471749	542929	257581	5.29	5.61	6.09	6.14	6.19	6.43	6.75	6.83	7.54
2	1471755	543034	257630	4.32	4.50	4.77	4.80	4.83	4.93	4.96	4.96	4.97
3	1471870	543068	257638	2.82	2.82	2.81	2.81	2.81	2.80	2.78	2.78	2.78
4	1471778	543173	257806	3.20	3.32	3.75	3.84	4.08	4.37	4.43	4.44	4.45
5	1471944	543174	257886	3.20	3.32	3.75	3.84	4.09	4.58	5.22	5.34	5.99
6	1471922	543176	257755	2.35	2.35	2.47	2.48	2.50	2.52	2.56	2.57	2.58
7	1471952	543178	257966	3.20	3.32	3.75	3.84	4.09	4.58	5.22	5.34	5.98
8	1471912	543191	258048	3.20	3.32	3.75	3.84	4.09	4.58	5.21	5.34	5.98
9	1471966	543247	258093	3.20	3.32	3.75	3.84	4.09	4.58	5.21	5.33	5.98
10	1471906	543343	258077	3.20	3.32	3.75	3.84	4.09	4.58	5.21	5.33	5.98

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.



Environment Agency

No defences exist modelled fluvial node locations

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

Model name
EAn Cam Package Bin Brook JBA 2023

Selected area
Modelled location
Main river

0 100 200 300 400 500
metres

© Environment Agency copyright and/or database rights 2025. All rights reserved. © Crown copyright and database rights 2025 AC0000807064.

Modelled node locations data

No defences exist

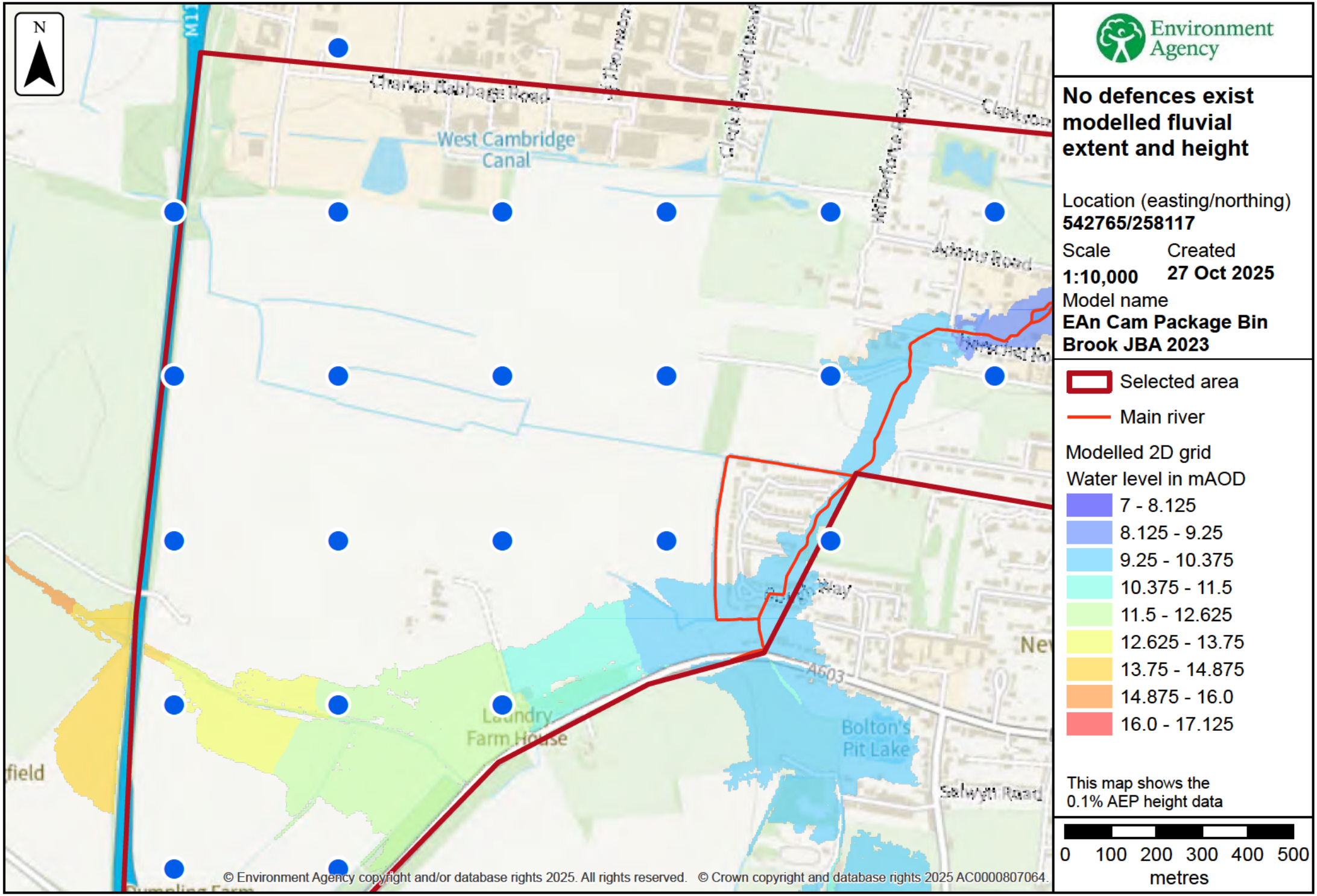
Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
1	1471749	542929	257581	10.13	10.40	10.51	10.58	10.62	10.66	10.68	10.69	10.71	10.75
2	1471755	543034	257630	9.98	10.23	10.28	10.30	10.31	10.32	10.33	10.33	10.34	10.37
3	1471870	543068	257638	9.88	10.17	10.24	10.28	10.29	10.31	10.31	10.32	10.33	10.38
4	1471778	543173	257806	9.08	9.40	9.62	9.78	9.84	9.88	9.93	9.95	10.07	10.25
5	1471944	543174	257886	9.04	9.36	9.58	9.73	9.79	9.84	9.88	9.91	10.02	10.19
6	1471922	543176	257755	9.12	9.45	9.67	9.82	9.88	9.92	9.97	9.99	10.11	10.28
7	1471952	543178	257966	9.0	9.31	9.53	9.68	9.73	9.78	9.82	9.85	9.96	10.12
8	1471912	543191	258048	8.95	9.26	9.47	9.62	9.67	9.72	9.76	9.78	9.90	10.06
9	1471966	543247	258093	8.88	9.18	9.39	9.53	9.58	9.62	9.66	9.68	9.79	9.95
10	1471906	543343	258077	8.64	8.91	9.09	9.23	9.28	9.32	9.36	9.37	9.48	9.67

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.

No defences exist

Label	Modelled location ID	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
				Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1471749	542929	257581	2.56	3.41	4.22	4.93	5.31	5.74	5.97	6.05	6.21	6.66
2	1471755	543034	257630	2.56	3.11	3.67	4.11	4.33	4.57	4.70	4.74	4.84	4.96
3	1471870	543068	257638	2.56	2.92	2.87	2.83	2.82	2.81	2.81	2.81	2.81	2.78
4	1471778	543173	257806	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.15	4.41
5	1471944	543174	257886	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.08
6	1471922	543176	257755	1.27	1.90	2.19	2.34	2.35	2.36	2.44	2.46	2.50	2.55
7	1471952	543178	257966	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.07
8	1471912	543191	258048	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.07
9	1471966	543247	258093	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.07
10	1471906	543343	258077	1.27	2.03	2.60	3.04	3.21	3.38	3.56	3.65	4.18	5.06

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model.
Level values are shown in mAOD, and flow values are shown in cubic metres per second.
Any blank cells show where a particular scenario has not been modelled for this location.



Environment Agency

No defences exist modelled fluvial extent and height

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

Model name
EAn Cam Package Bin Brook JBA 2023

Selected area

Main river

Modelled 2D grid
Water level in mAOD

- 7 - 8.125
- 8.125 - 9.25
- 9.25 - 10.375
- 10.375 - 11.5
- 11.5 - 12.625
- 12.625 - 13.75
- 13.75 - 14.875
- 14.875 - 16.0
- 16.0 - 17.125

This map shows the 0.1% AEP height data

0 100 200 300 400 500
metres

Sample point data

No defences exist

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
5	542347	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	12.36	12.45
6	542707	257554	NoData	NoData	11.39	11.47	11.52	11.59	11.63	11.64	11.68	11.73
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height	Height	Height
Max value in selected area:			12.90	13.10	13.23	13.35	13.42	13.51	13.58	13.61	13.77	13.95

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

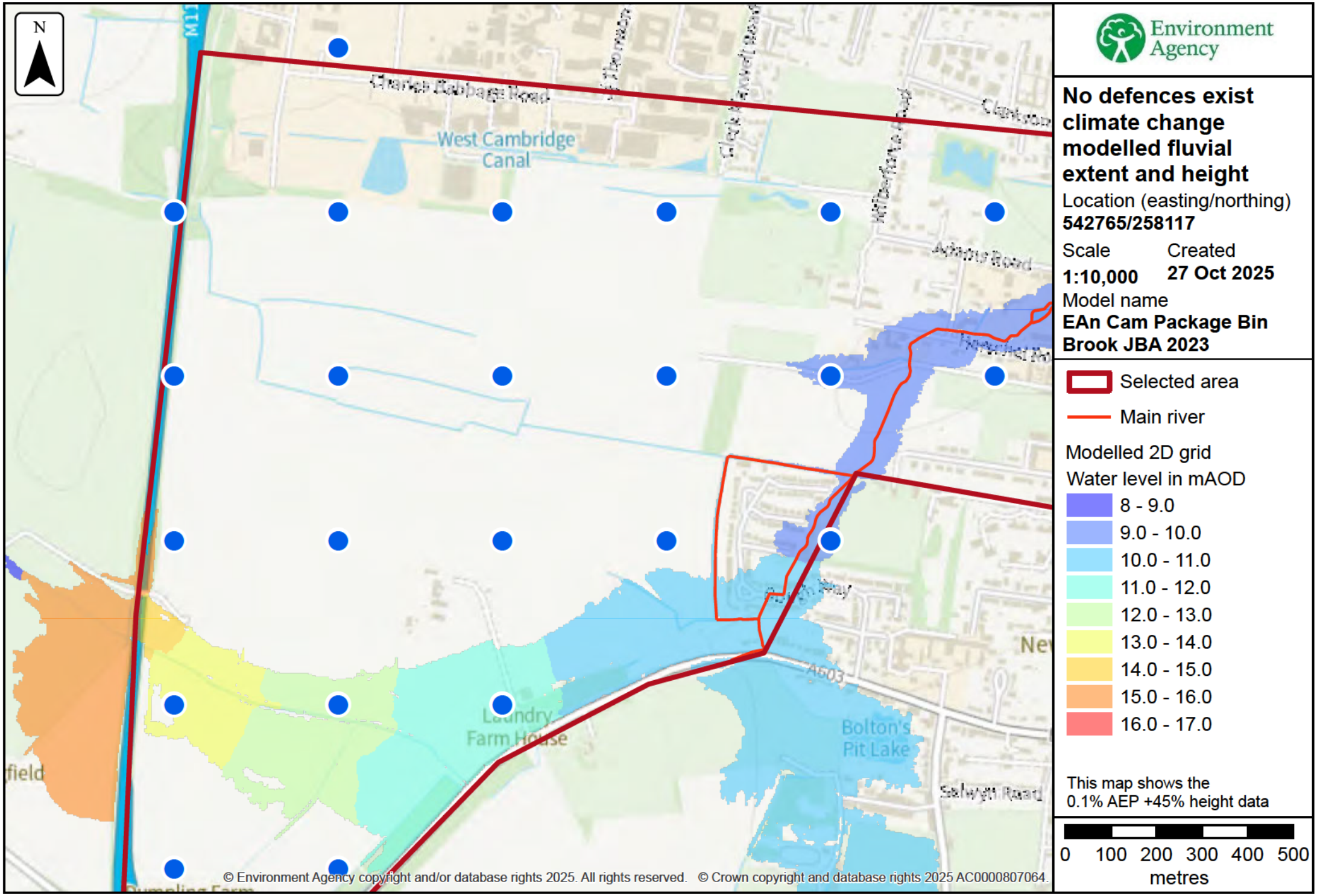
No defences exist

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
5	542347	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.03	0.12
6	542707	257554	NoData	NoData	0.19	0.27	0.32	0.39	0.43	0.44	0.48	0.53
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	50% AEP	20% AEP	10% AEP	5% AEP	3.33% AEP	2% AEP	1.33% AEP	1% AEP	0.5% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
Max value in selected area:			3.04	3.33	3.47	3.49	3.49	3.55	3.62	3.64	3.83	4.19

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



Environment Agency

No defences exist climate change modelled fluvial extent and height

Location (easting/northing)
542765/258117

Scale
1:10,000

Created
27 Oct 2025

Model name
EAn Cam Package Bin Brook JBA 2023

Selected area

Main river

Modelled 2D grid
Water level in mAOD

- 8 - 9.0
- 9.0 - 10.0
- 10.0 - 11.0
- 11.0 - 12.0
- 12.0 - 13.0
- 13.0 - 14.0
- 14.0 - 15.0
- 15.0 - 16.0
- 16.0 - 17.0

This map shows the 0.1% AEP +45% height data

0 100 200 300 400 500
metres

Sample point data

No defences exist climate change

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Height	Height	Height	Height	Height	Height	Height	Height	Height
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	13.53
5	542347	257554	NoData	NoData	NoData	NoData	12.34	12.41	12.45	12.46	12.51
6	542707	257554	11.52	11.57	11.65	11.66	11.67	11.71	11.74	11.74	11.79
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	9.93
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Height	Height	Height	Height	Height	Height	Height	Height	Height
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	9.64
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Height	Height	Height	Height	Height	Height	Height	Height	Height
Max value in selected area:			13.41	13.48	13.64	13.68	13.74	13.88	13.98	14.95	15.14

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

No defences exist climate change

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	541987	256834	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	541987	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	542347	257194	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
4	541987	257554	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.01
5	542347	257554	NoData	NoData	NoData	NoData	0.01	0.09	0.13	0.14	0.18
6	542707	257554	0.32	0.38	0.45	0.46	0.47	0.51	0.54	0.55	0.59
7	541987	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	542347	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	542707	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
10	543067	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
11	543427	257914	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.06
12	541987	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
13	542347	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
14	542707	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
15	543067	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
16	543427	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.13
17	543787	258274	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
18	541987	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
19	542347	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
20	542707	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
21	543067	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
22	543427	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
23	543787	258634	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
24	542347	258994	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	5% AEP (+9%)	5% AEP (+19%)	5% AEP (+45%)	1% AEP (+9%)	1% AEP (+19%)	1% AEP (+45%)	0.1% AEP (+9%)	0.1% AEP (+19%)	0.1% AEP (+45%)
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
Max value in selected area:			3.49	3.52	3.68	3.72	3.80	4.01	4.22	4.25	4.73

Data in this table comes from the EAn Cam Package Bin Brook JBA 2023 model. Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Strategic flood risk assessments

We recommend that you check the relevant local authority's strategic flood risk assessment (SFRA) as part of your work to prepare a site specific flood risk assessment.

This should give you information about:

- the potential impacts of climate change in this catchment
- areas defined as functional floodplain
- flooding from other sources, such as surface water, ground water and reservoirs

Your Lead Local Flood Authority is Cambridgeshire County.

About this data

This data has been generated by strategic scale flood models and is not intended for use at the individual property scale. If you're intending to use this data as part of a flood risk assessment, please include an appropriate modelling tolerance as part of your assessment. The Environment Agency regularly updates its modelling. We recommend that you check the data provided is the most recent, before submitting your flood risk assessment.

Flood risk activity permits

Under the Environmental Permitting (England and Wales) Regulations 2016 some developments may require an environmental permit for flood risk activities from the Environment Agency. This includes any permanent or temporary works that are in, over, under, or nearby a designated main river or flood defence structure.

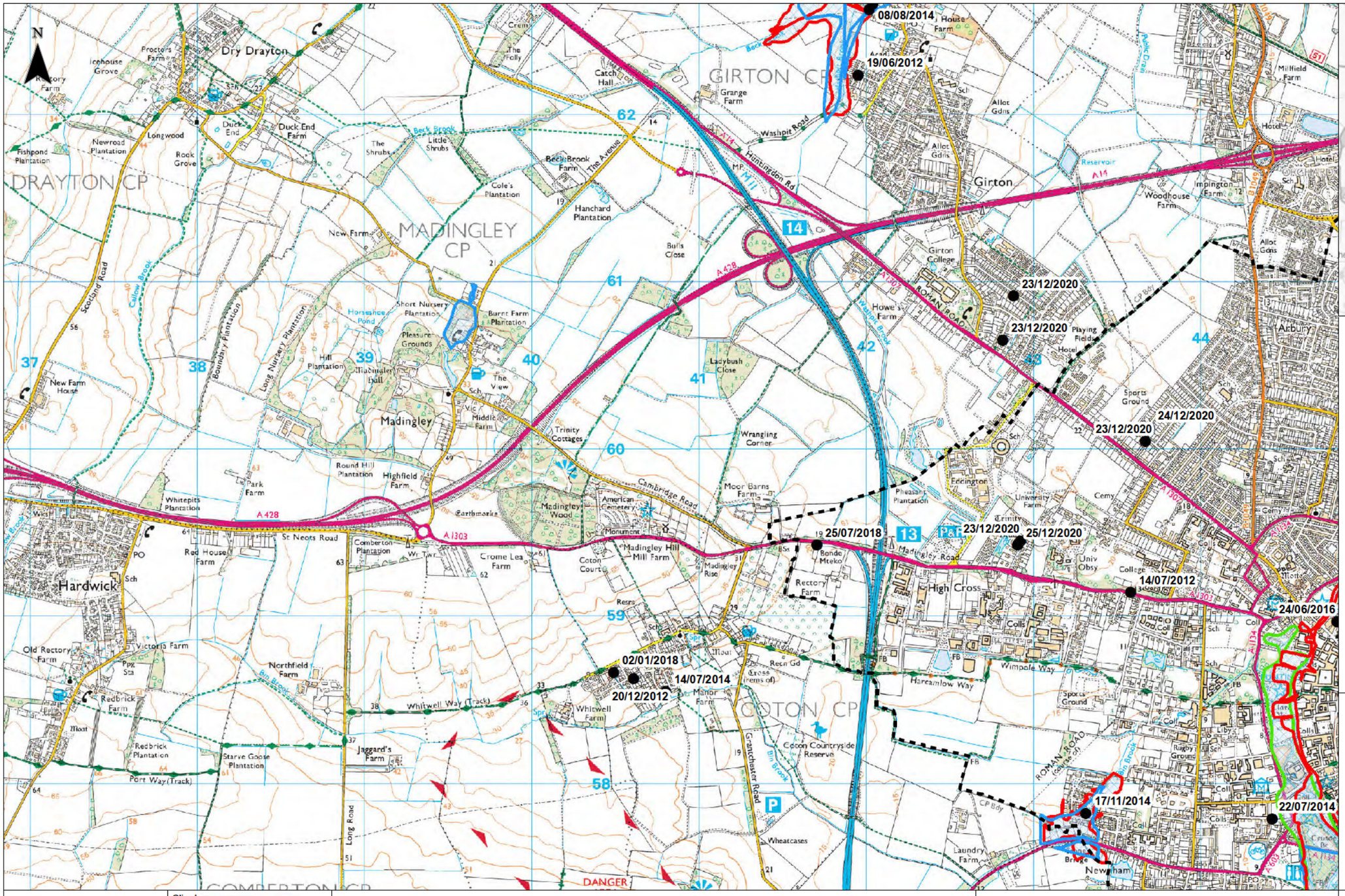
Find out more about flood risk activity permits

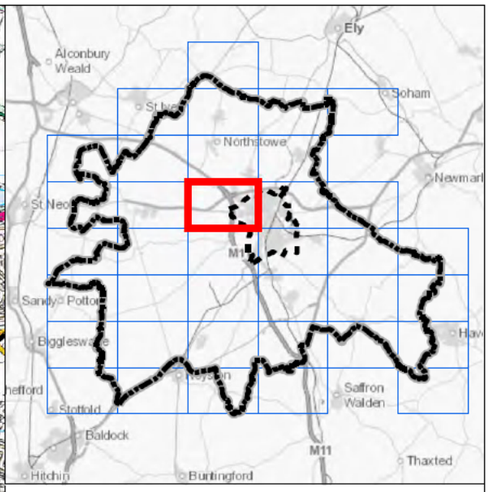
Help and advice

Contact the East Anglia Environment Agency team at enquiries_eastanglia@environment-agency.gov.uk for:

- more information about getting a product 5, 6, 7 or 8
- general help and advice about the site you're requesting data for

Appendix F SFRA Historical Flood Map





Legend

Study Area

- Cambridge City Boundary
- South Cambridgeshire Boundary

Recorded Flood Outlines

- October 2001
- May 1978
- March 1947
- Flooded Area
- Reported Flood Incident

Notes

The Historic Flooding map shows the recorded flood outline of historic flooding from rivers, the sea, groundwater and surface water. The data is produced by the Environment Agency (EA) and is based on their records of flooding, which date back to 1946 with limited details of events prior to this. It takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, as well as flood extents that may have been affected by overtopping, breaches or blockages.

It should be noted that even if an area on the map is shown to not have been previously flooded, it is possible this may be false due to there being no records of past flooding in the area. Moreover, it is possible the nature of flooding in certain areas has changed resulting in the area now not subject to flooding, possibly if a flood defence has been constructed.

Stantec

Client: GREATER CAMBRIDGE SHARED PLANNING

Greater Cambridge Integrated Water Management Study

Historic Flooding

0 1 2 km

Contains OS data © Crown Copyright and database right 2020
© Crown copyright and database rights 2020 OS 100022500.
Contains EA data © Environment Agency copyright and database right 2018. All rights reserved.

Sheet Number: 12 of 37

1:23,980 @ A3	Date: 26/07/2021
Drawn: MD	Checked: PJ
Figure: 48444/4005/GIS026	Rev A

Document Path: J:\48444 Greater Cambridge Water Cycle Study\GIS\Workspaces\48444 GIS026 Historic Flooding_v2.mxd

Appendix G Greenfield Runoff Calcs

FEH Greenfield Runoff

Per Hectare

Using 2008 QMED Equation

Project Title	Land North of Barton Road, Cambridge
Project No	47115

Methodology as set out in SuDS Manual 24.3.2 — SUDS Manual Chapter 24

1 Retrieve FEH Catchment Information

Export catchment data from FEH CDROM as .csv file and save in FEH data export

Catchment Descriptors	**BFIHOST**	0.280	*see note 1*
	SAAR	538.0	*see note 1*
	FARL	1.0	*see note 2*

2 Derive QBAR (mean annual flood)

Define area	**Site Area**	1.0	ha	
	Applied Area	50.0	ha	*see note 3*
FEH Index Flood (SuDS Manual Equation 24.2)	**QMED (Q_2)**	2.2	l/s	*see note 4*
Calculate QBAR by dividing QMED by 2yr growth factor	**QBAR**	2.5	l/s	*see note 5*

3 Select appropriate growth factors

FSR Hydrological Region		5	*(refer to FSR Hydrological Region tab)*
100yr Growth Curve Factor	GQ_{100}	3.56	
30yr Growth Curve Factor	GQ_{30}	2.55	
10yr Growth Curve Factor	GQ_{10}	1.65	
2yr Growth Curve Factor	GQ_2	0.89	
1yr Growth Curve Factor	GQ_1	0.87	



4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	Q_{100}	8.9	l/s	Q_{100}	8.9	l/s/ha
30yr Peak Runoff Rate	Q_{30}	6.4	l/s	Q_{30}	6.4	l/s/ha
10yr Growth Curve Factor	Q_{10}	4.1	l/s	Q_{10}	4.1	l/s/ha
QBAR Peak Runoff Rate	QBAR	2.5	l/s	Q_{BAR}	2.5	l/s/ha
2yr Peak Runoff Rate	Q_2	2.2	l/s	Q_2	2.2	l/s/ha
1yr Peak Runoff Rate	Q_1	2.2	l/s	Q_1	2.2	l/s/ha

Location of FEH Data (as Hyperlink)

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
	Main Site excluding north-east area	MJH	17.09.19	CW	18.09.19

Sheet created by Alex Bearne

Last updated 03.01.18 Recommended Review 01.07.18

Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact the owner.

Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should only very occasionally be necessary. BFI can be derived manually using the the methodology set out in the Flood Estimation Handbook (see *Manual Derivation of BFIHOST tab).*

Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
Rainfall runoff management for developments.pdf

Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area

Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

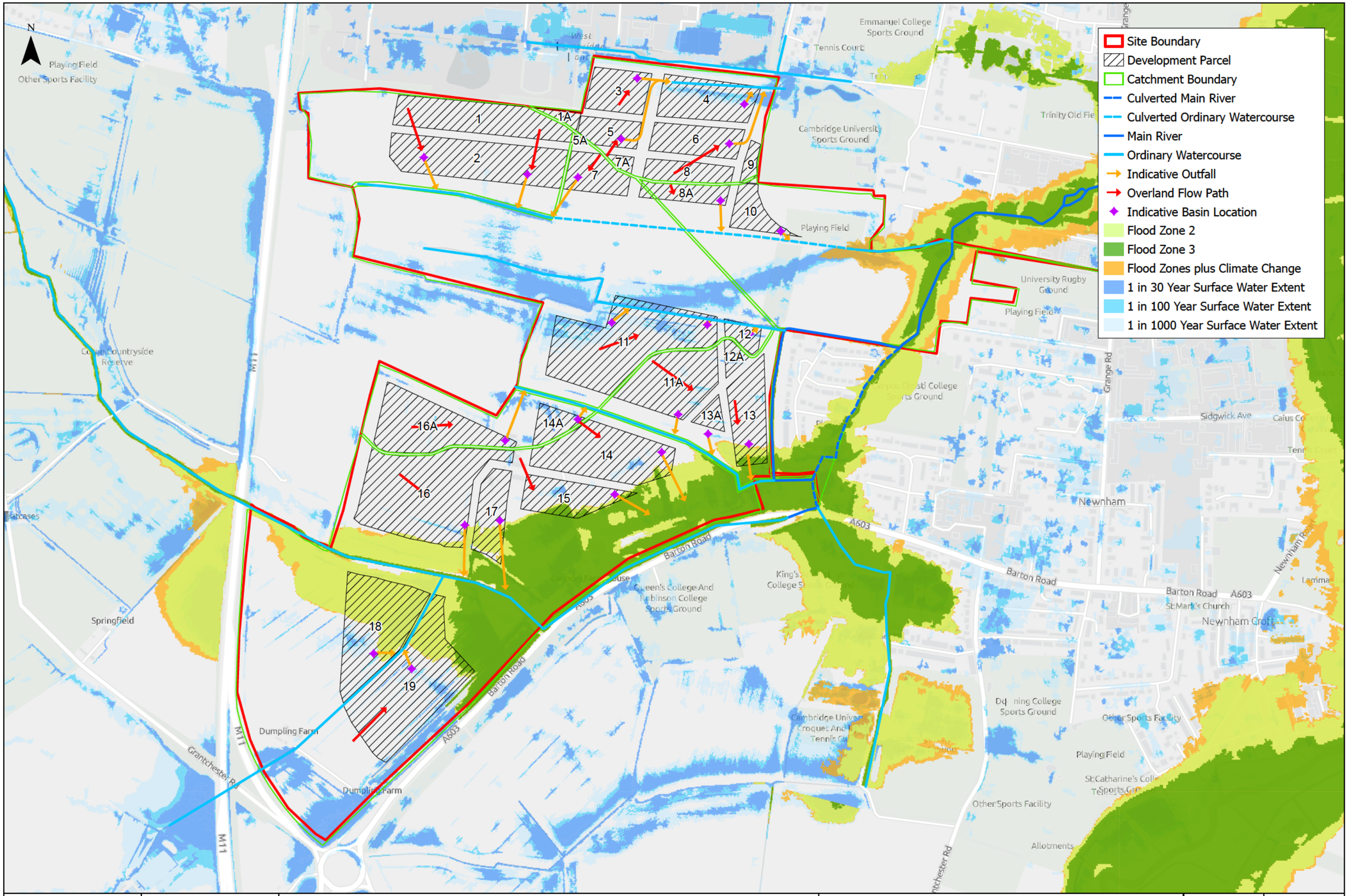
$$Q_{MED} = 8.3062AREA^{0.8510} .0.1536^{(1000/SAAR)} .FARL^{3.4451} .0.0460^{BFIHOST\hat{}2}$$

Rainfall runoff management for developments.pdf
It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' . QBAR is then used as the index flood for the basis of applying the growth factors.

Checked by Natasha Vaughan, Clare Waller, David Collis

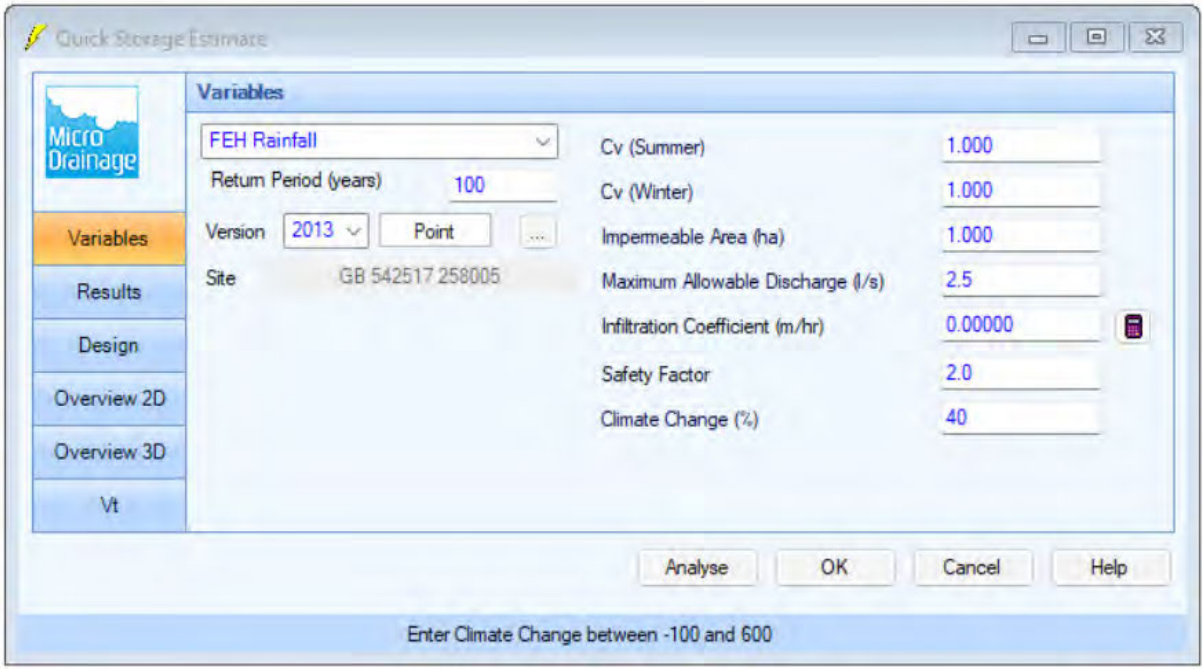
Appendix H High Level Drainage Strategy Drawing & QSE Calcs

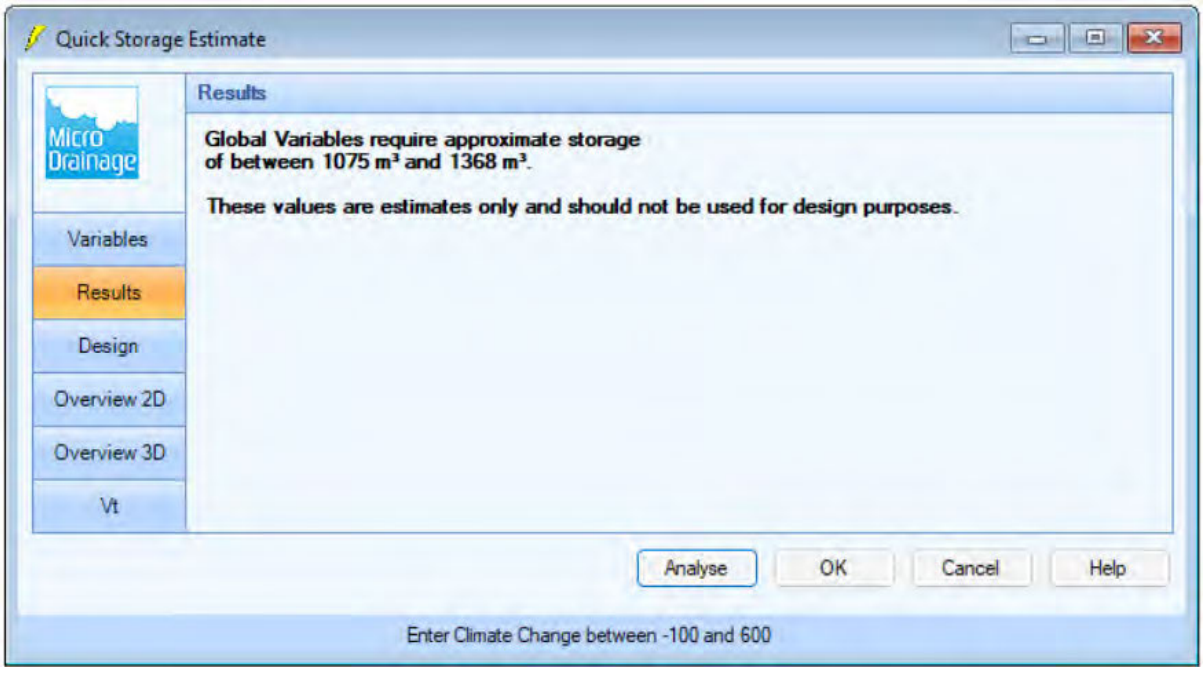


Stantec	Client: St Johns College	**South West Cambridge** High Level Surface Water Drainage	0 250 500 m GB Light Grey: Contains OS data © Crown Copyright and database right 2025 Contains data from OS Zoomstack	1:8,000 @ A3	Date: 28/11/2025
				Drawn: JB	Checked: RF
				Figure: 12	Rev A

Quick Storage Calculations

Attenuation requirement per impermeable hectare

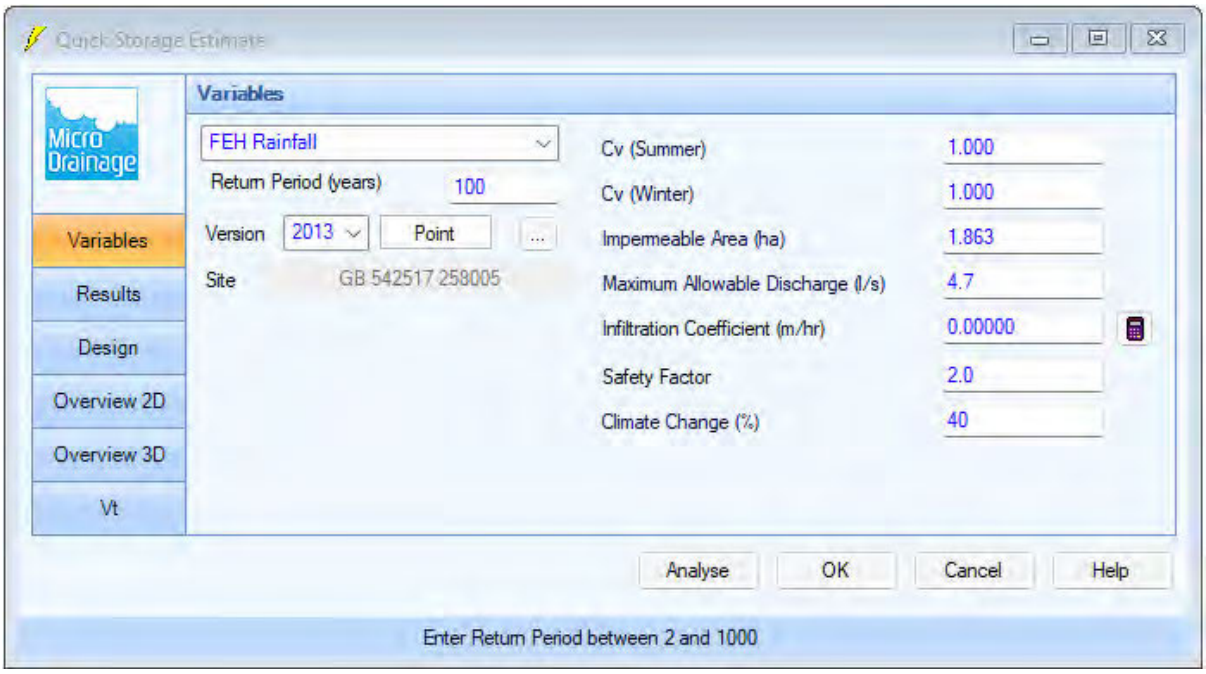


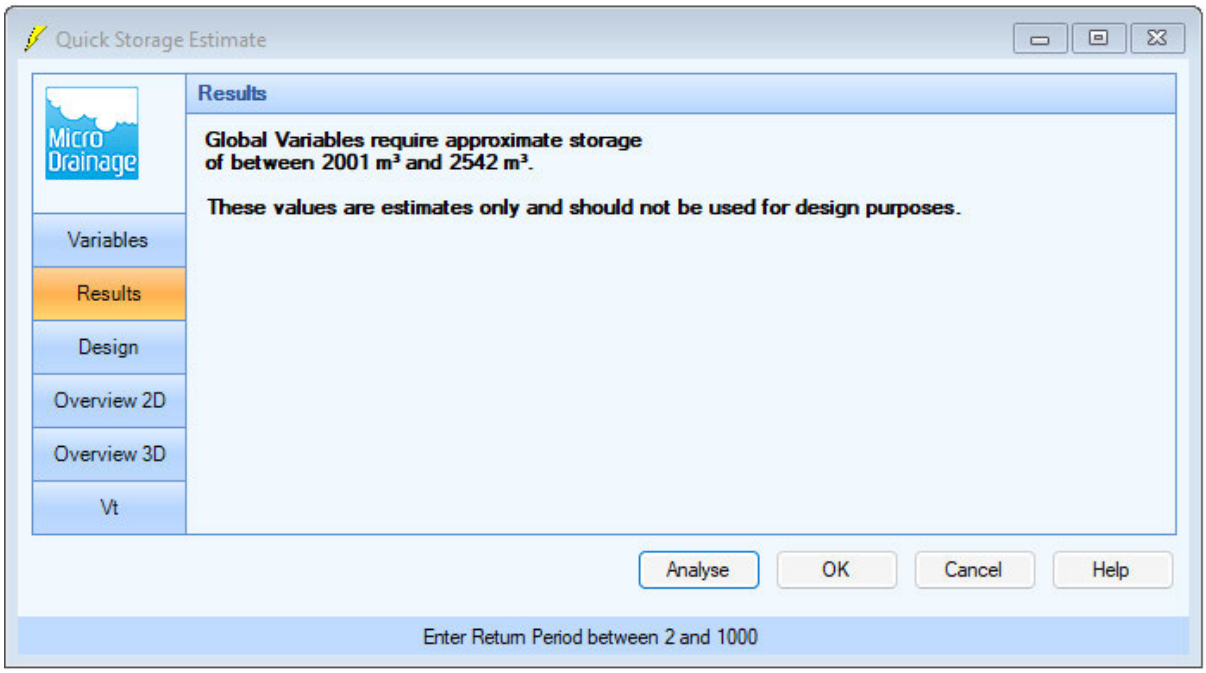


Quick Storage Calculations by development parcel

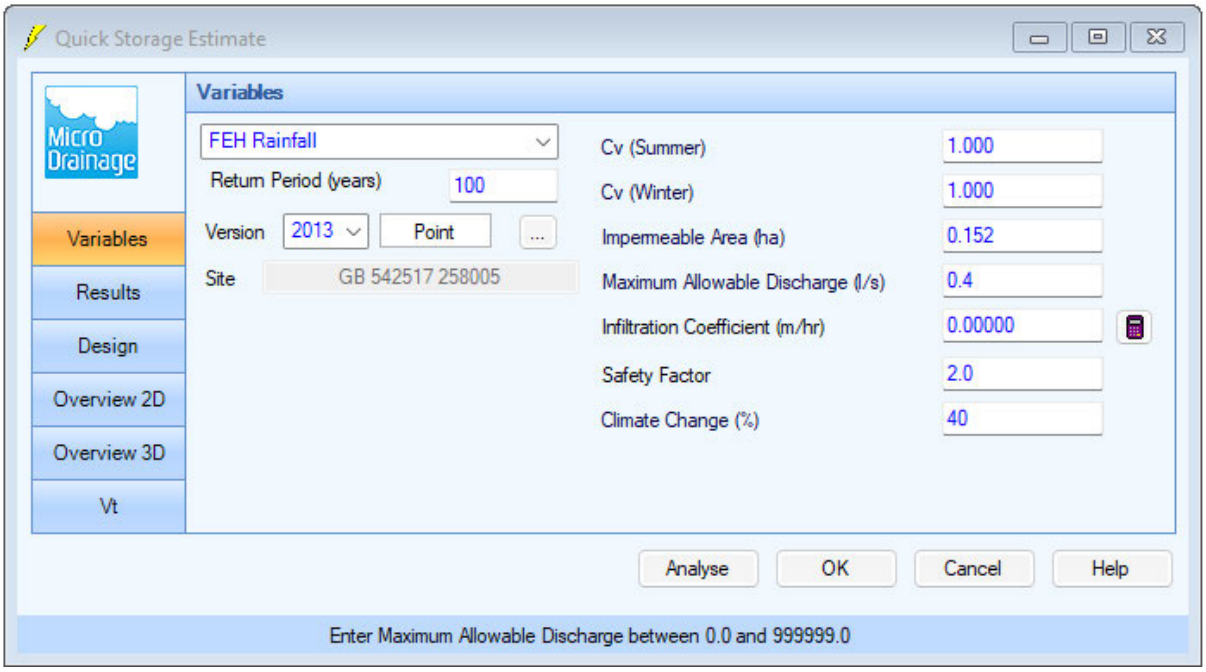
See Drawing No: Figure 12 for locations of Parcels

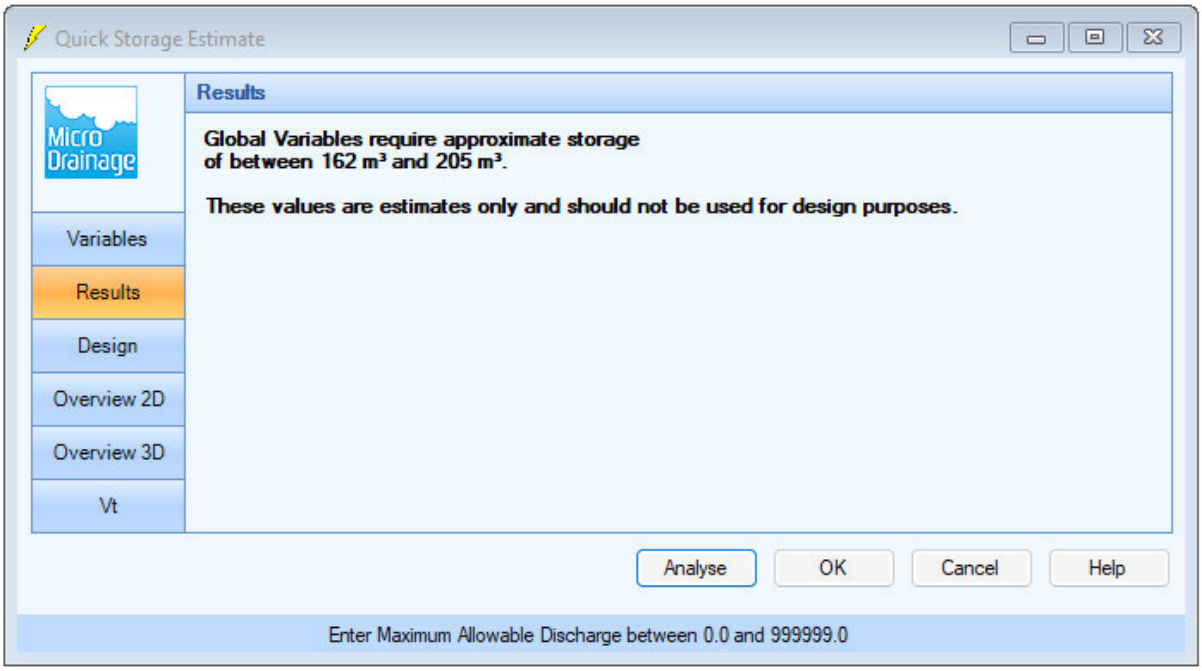
Parcel 1



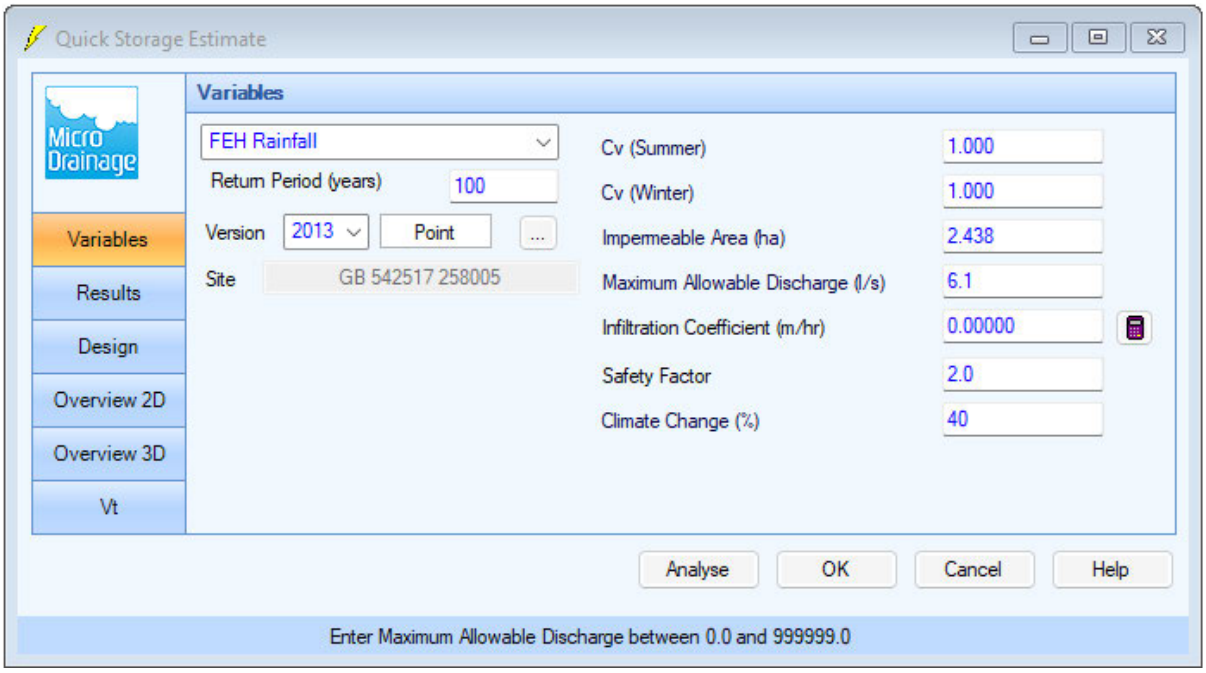


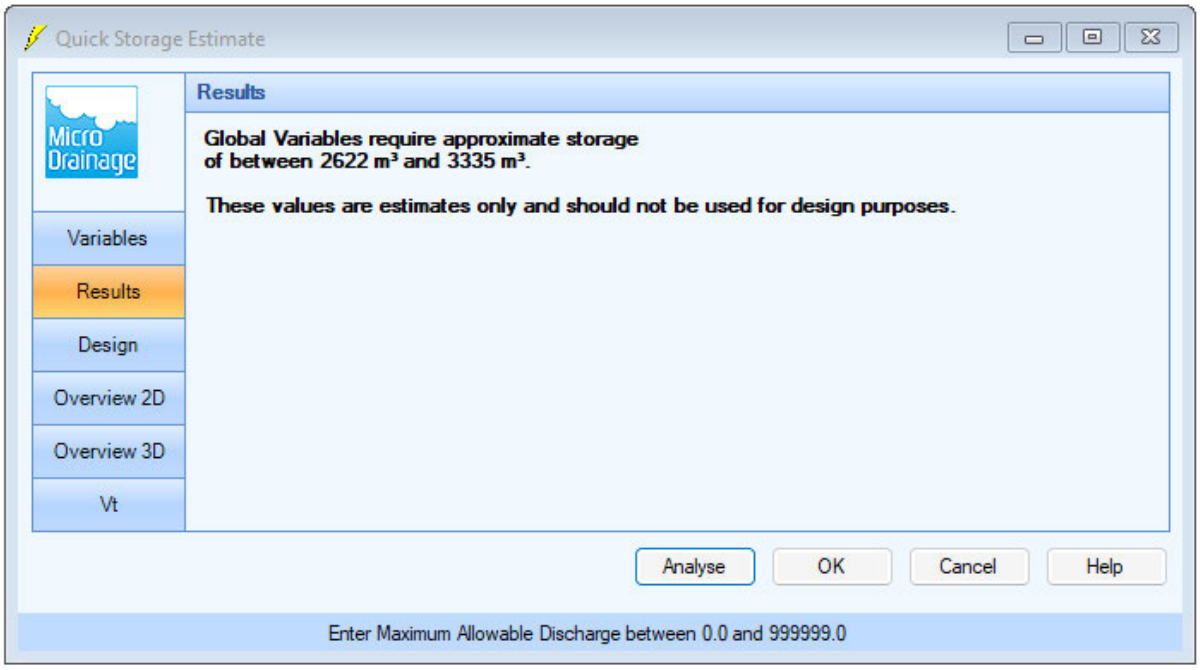
Parcel 1A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.152
Maximum Allowable Discharge (l/s) 0.4
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

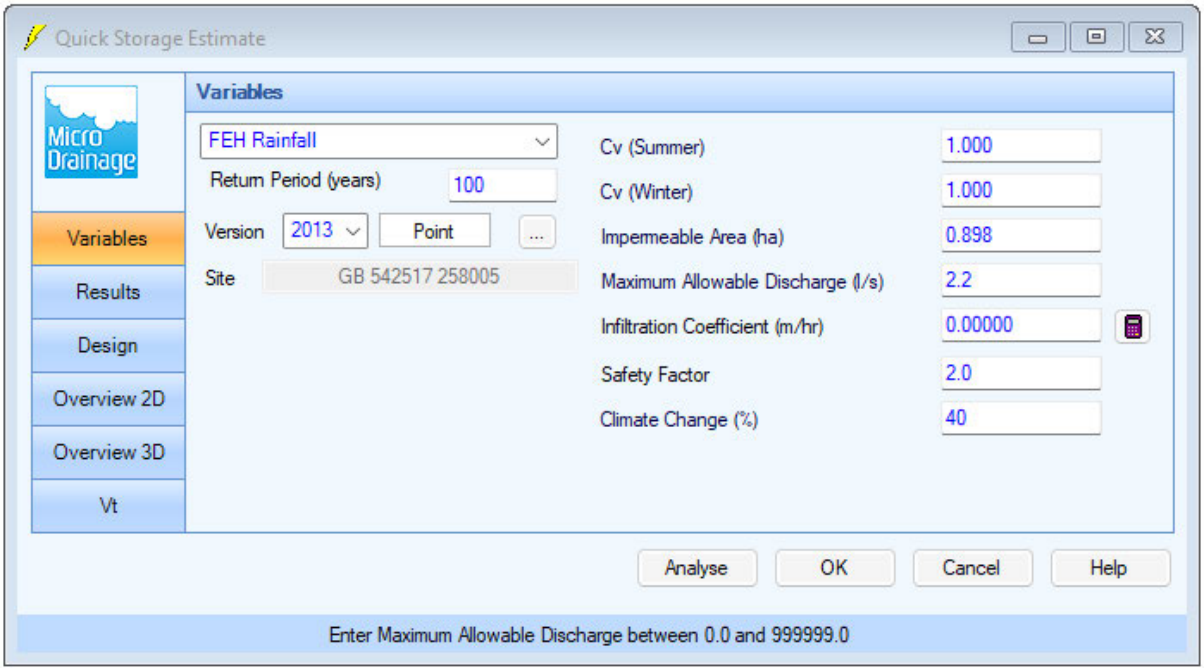

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 162 m³ and 205 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

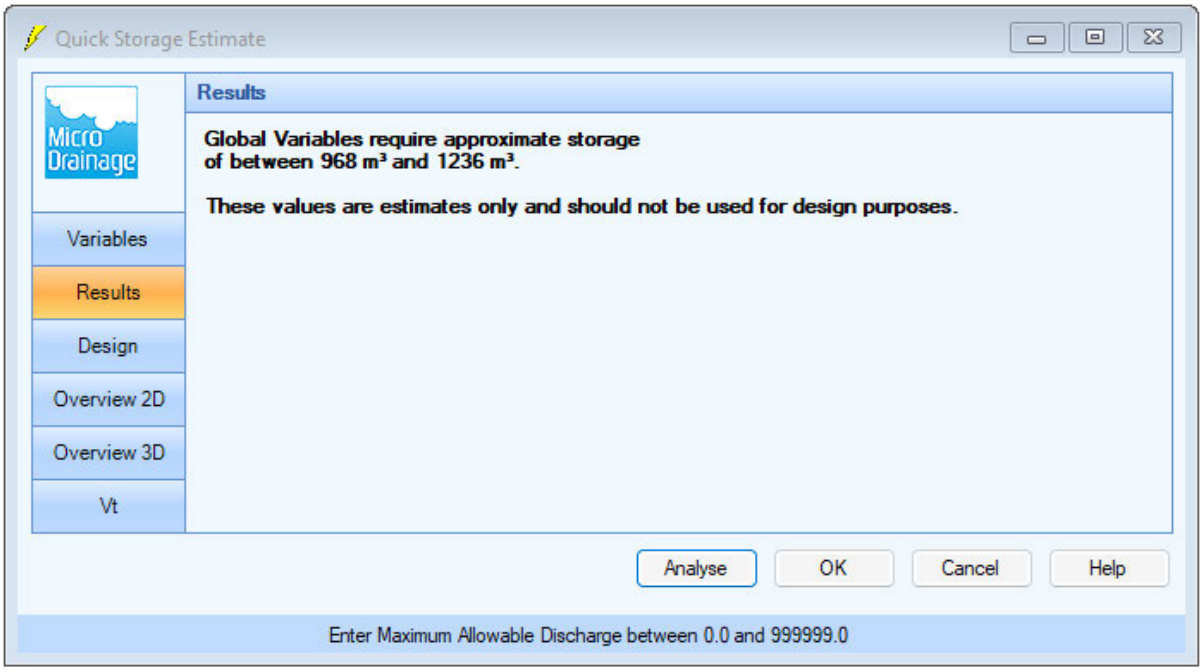
Parcel 2


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 2.438
Maximum Allowable Discharge (l/s) 6.1
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

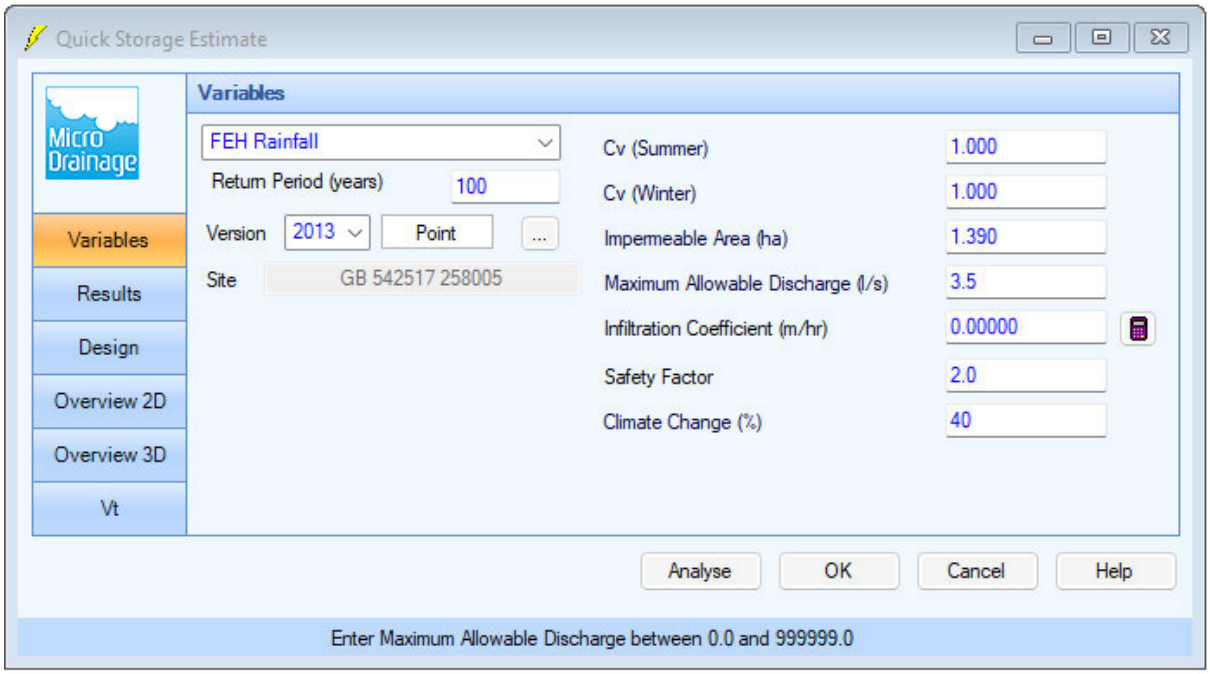

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 2622 m³ and 3335 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

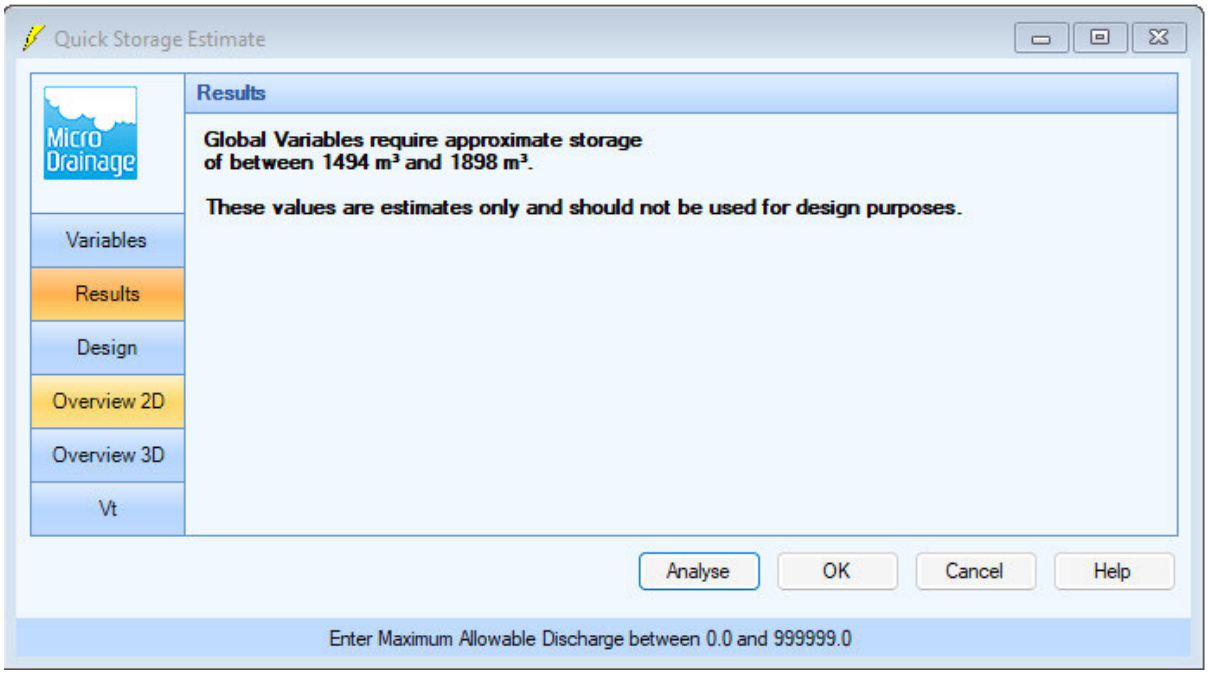
Parcel 3


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.898
Maximum Allowable Discharge (l/s) 2.2
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

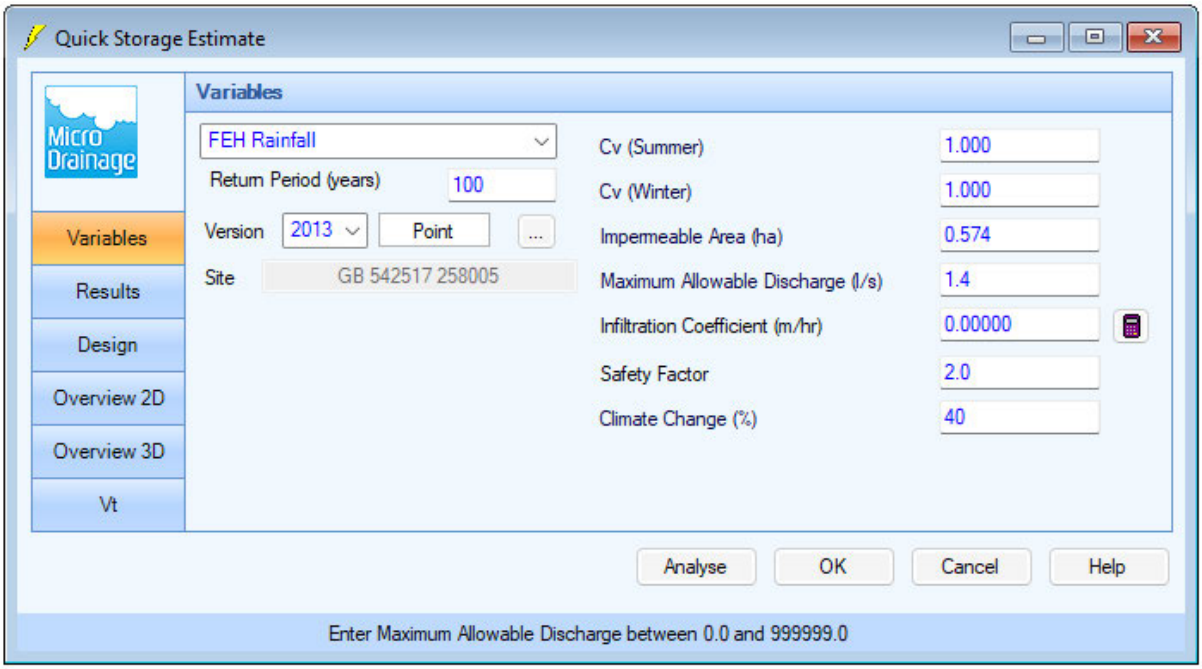

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 968 m³ and 1236 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

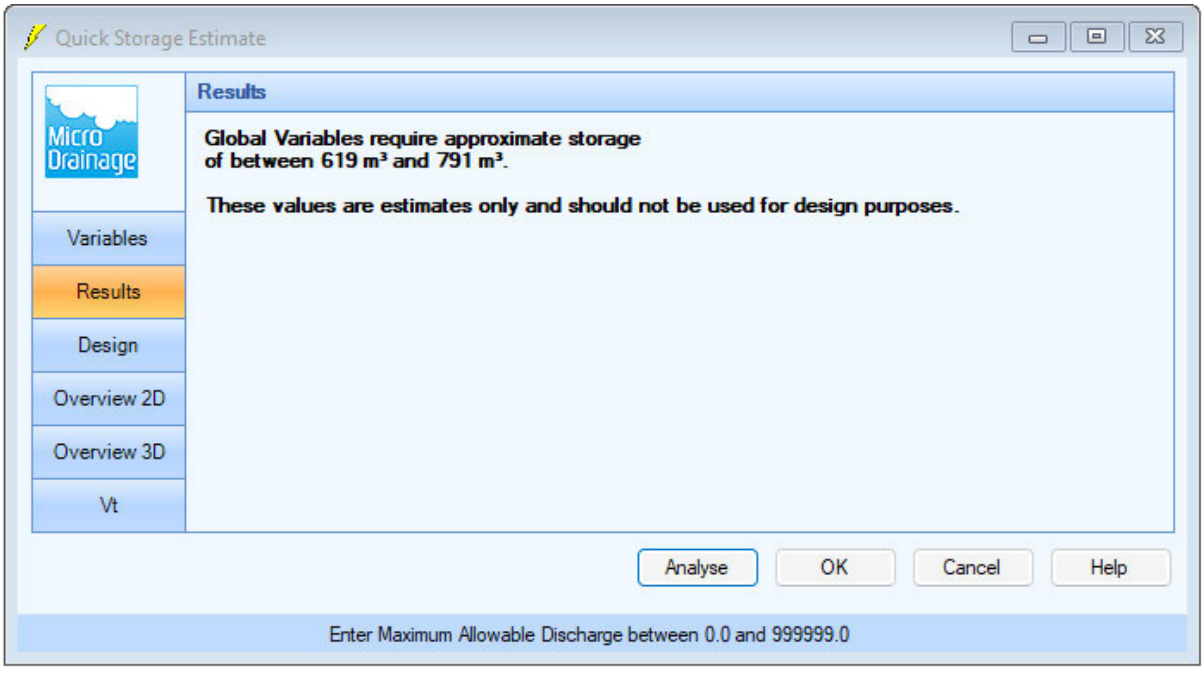
Parcel 4


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 1.390
Maximum Allowable Discharge (l/s) 3.5
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

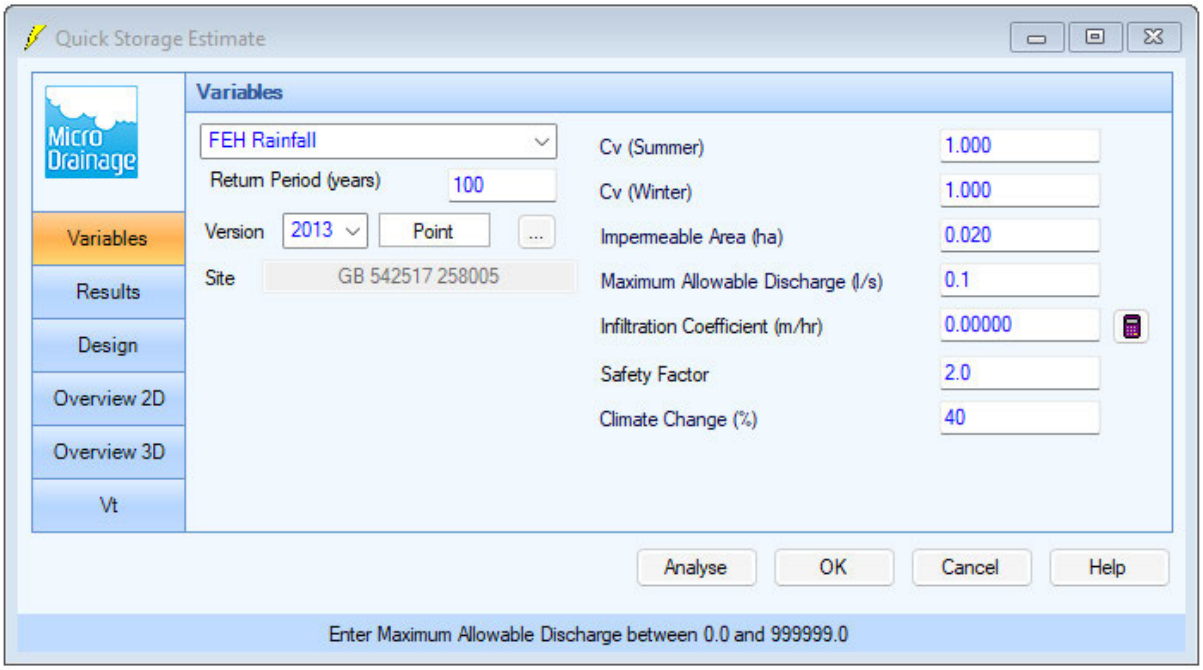

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 1494 m³ and 1898 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

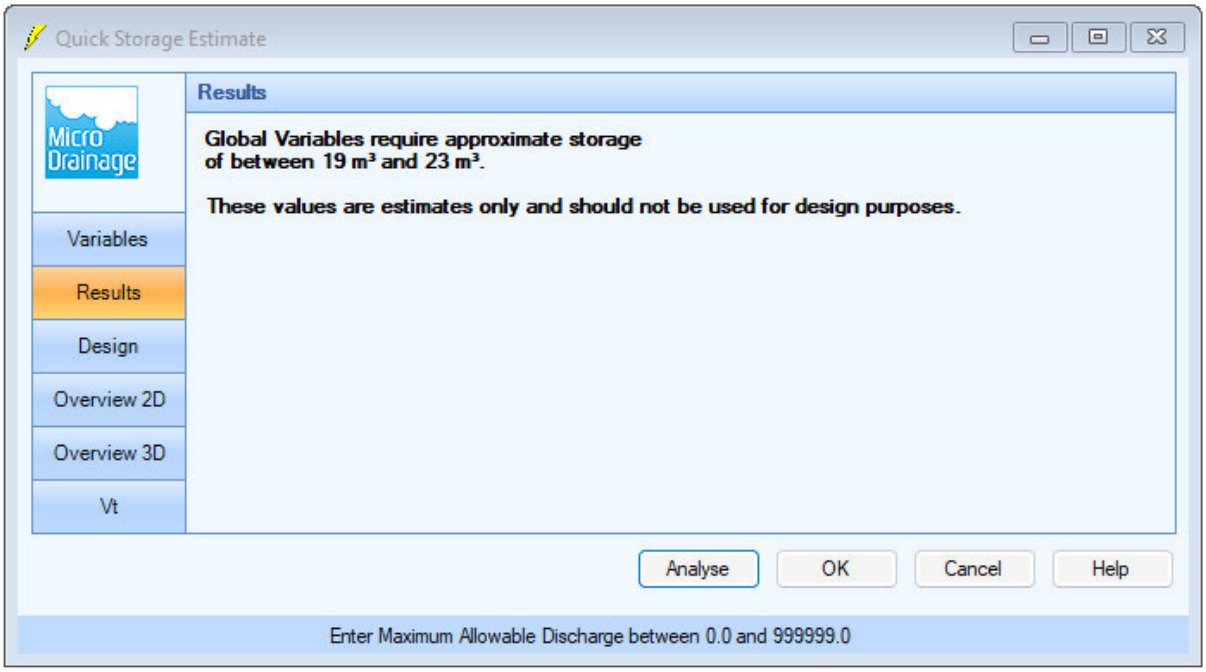
Parcel 5


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.574
Maximum Allowable Discharge (l/s) 1.4
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

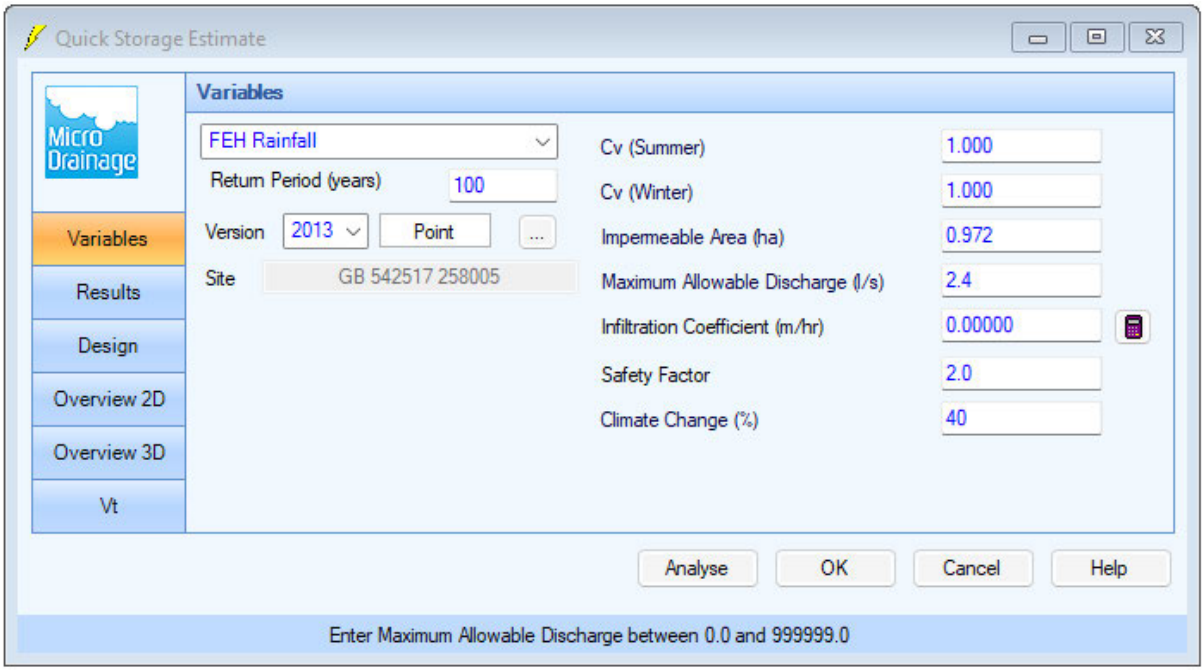

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 619 m³ and 791 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

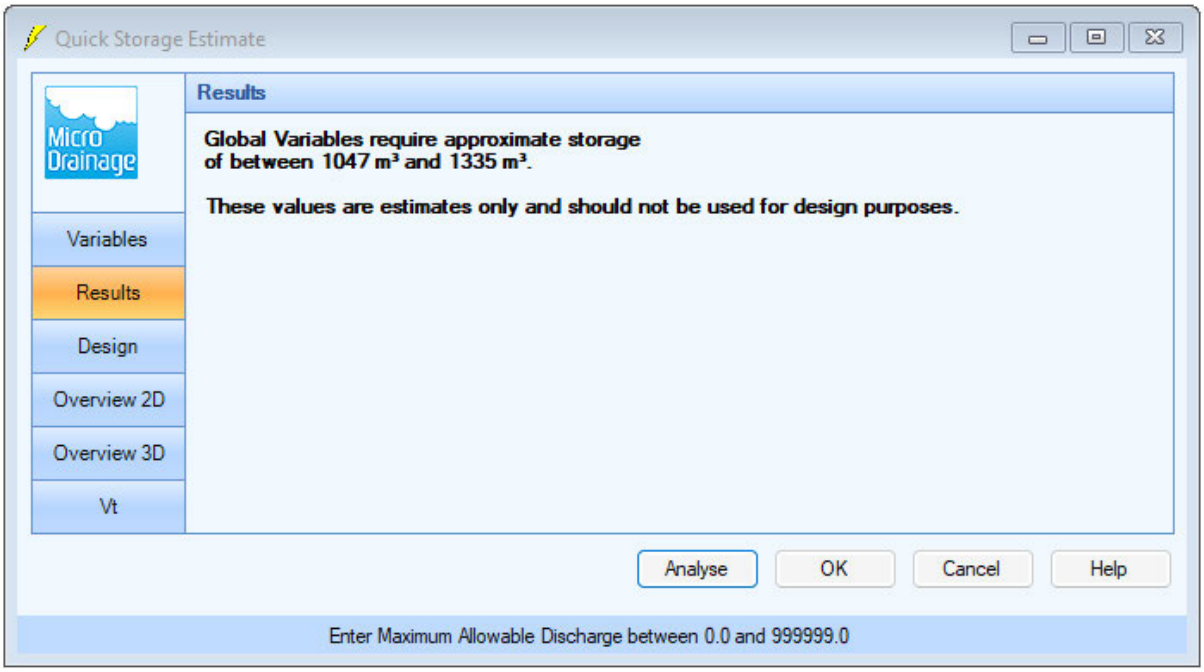
Parcel 5A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.020
Maximum Allowable Discharge (l/s) 0.1
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

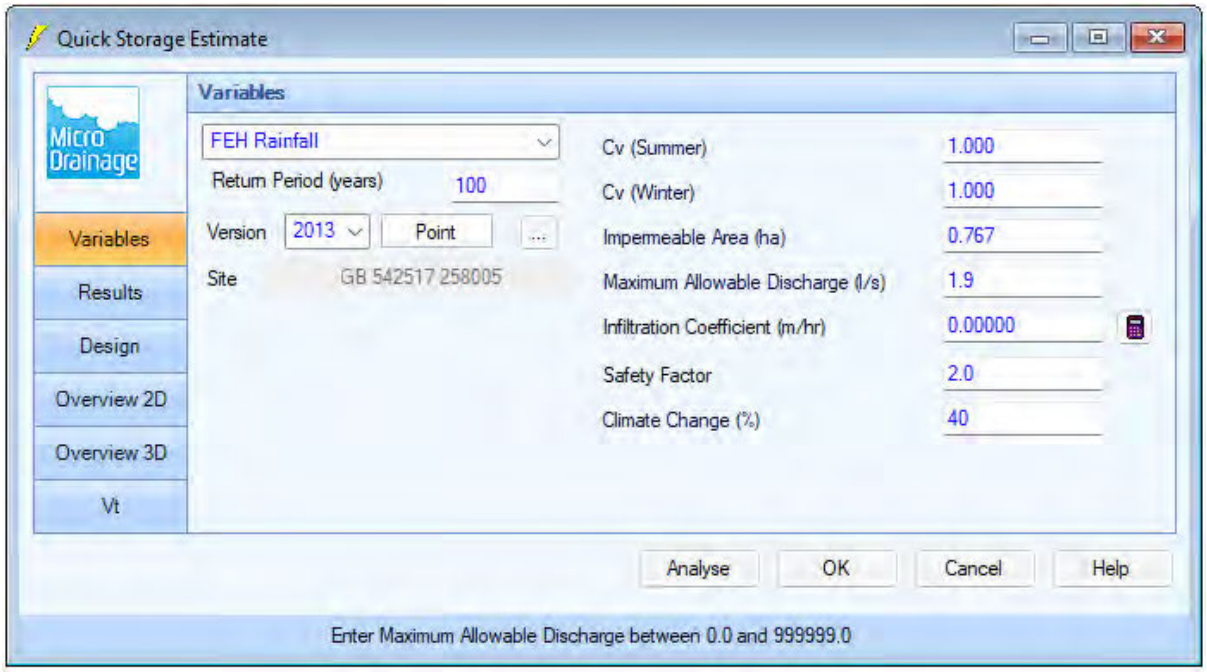

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 19 m³ and 23 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

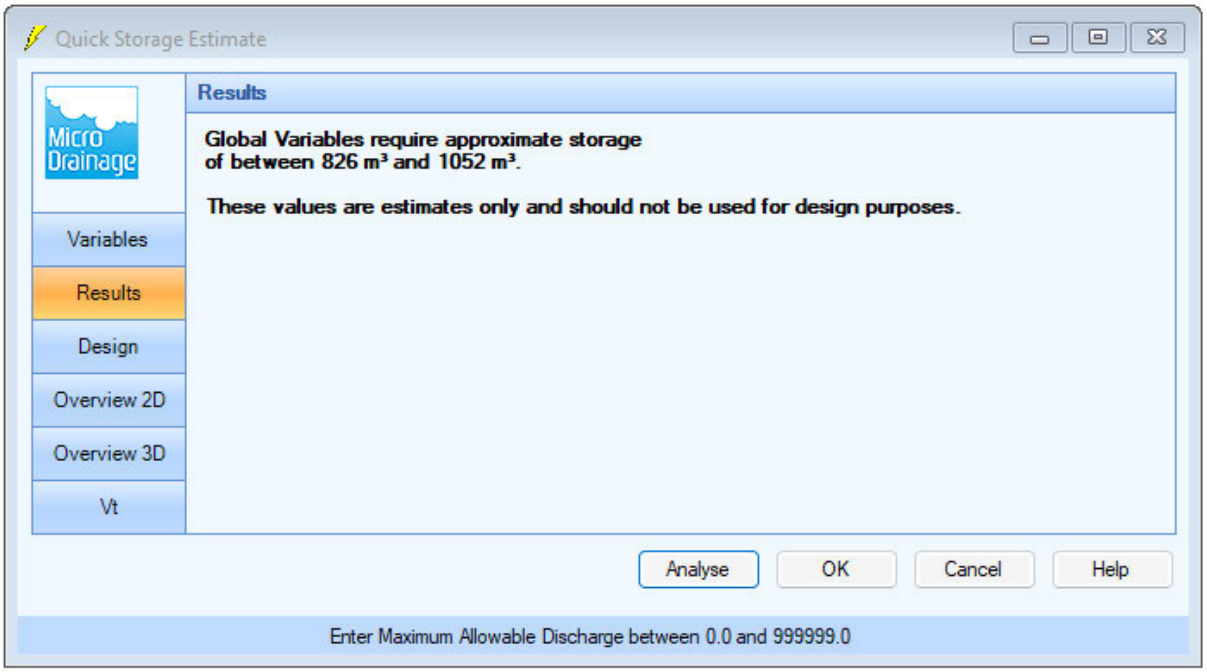
Parcel 6


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.972
Maximum Allowable Discharge (l/s) 2.4
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

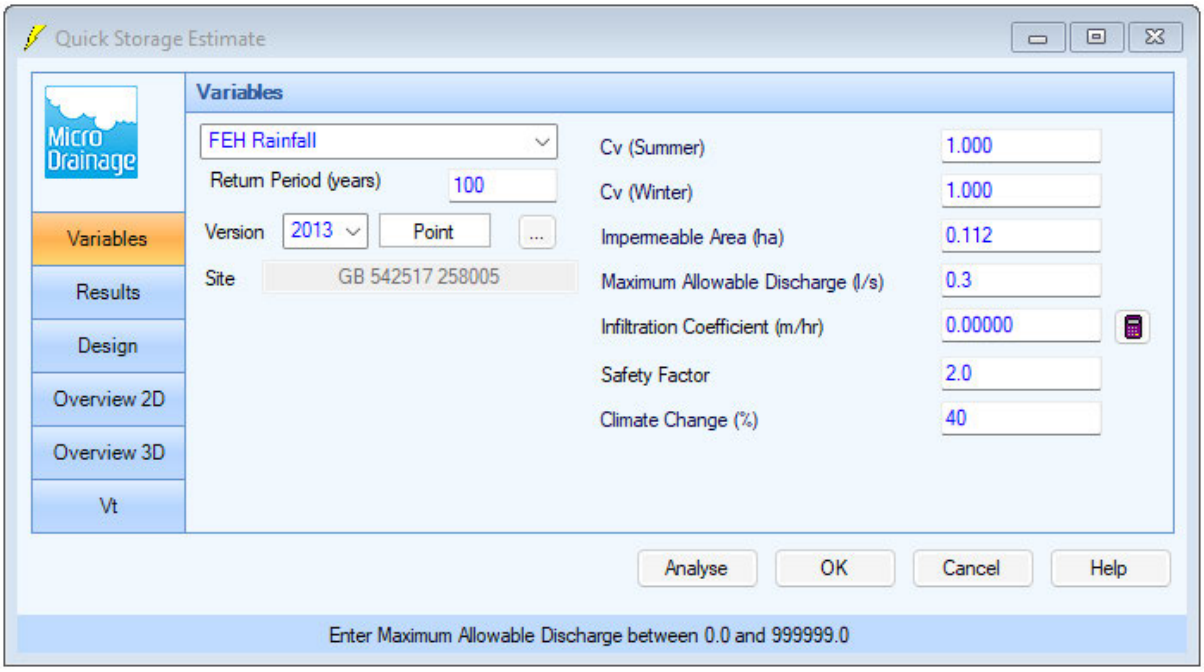

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 1047 m³ and 1335 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

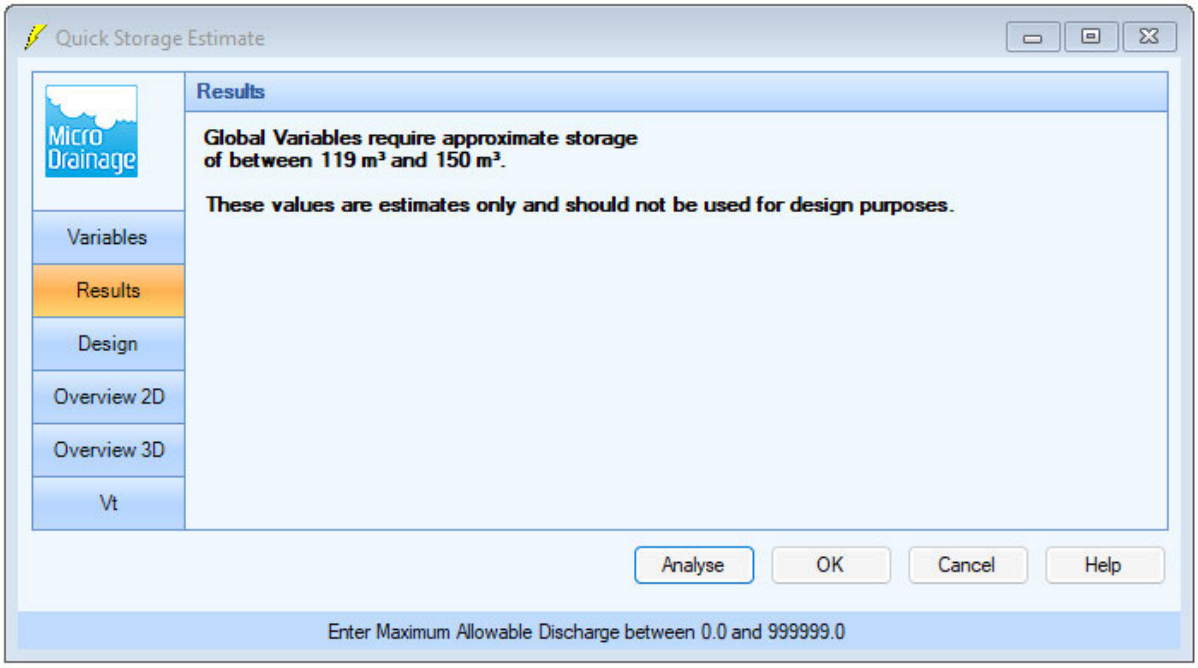
Parcel 7


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013
Point
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.767
Maximum Allowable Discharge (l/s) 1.9
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

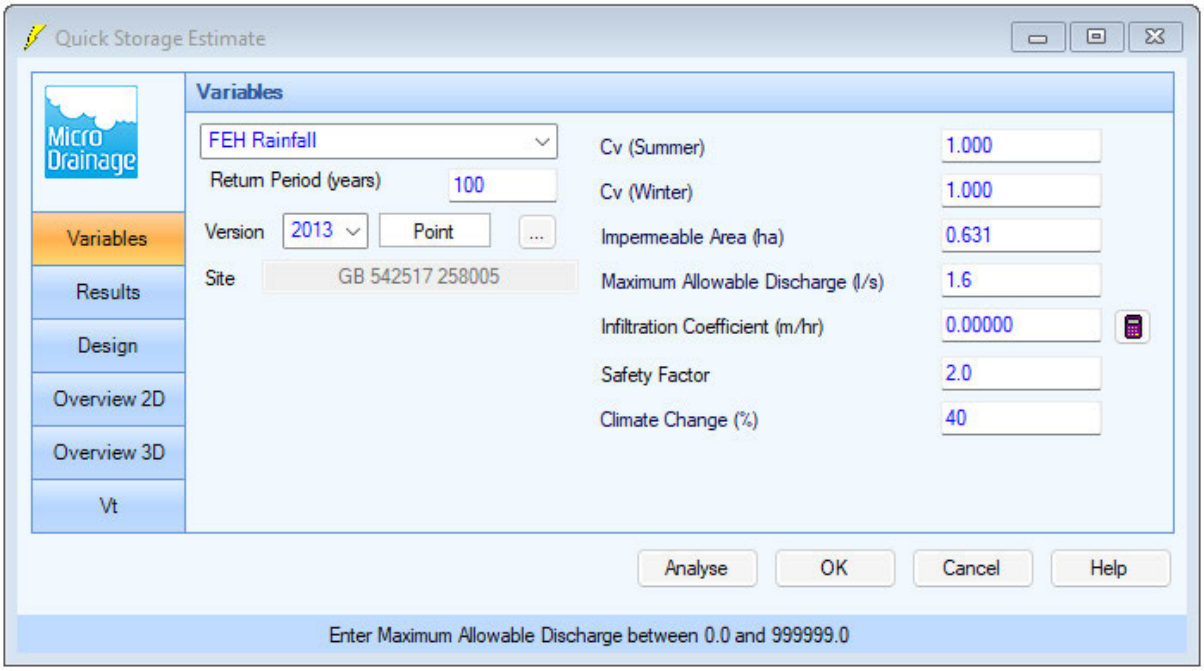

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 826 m³ and 1052 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

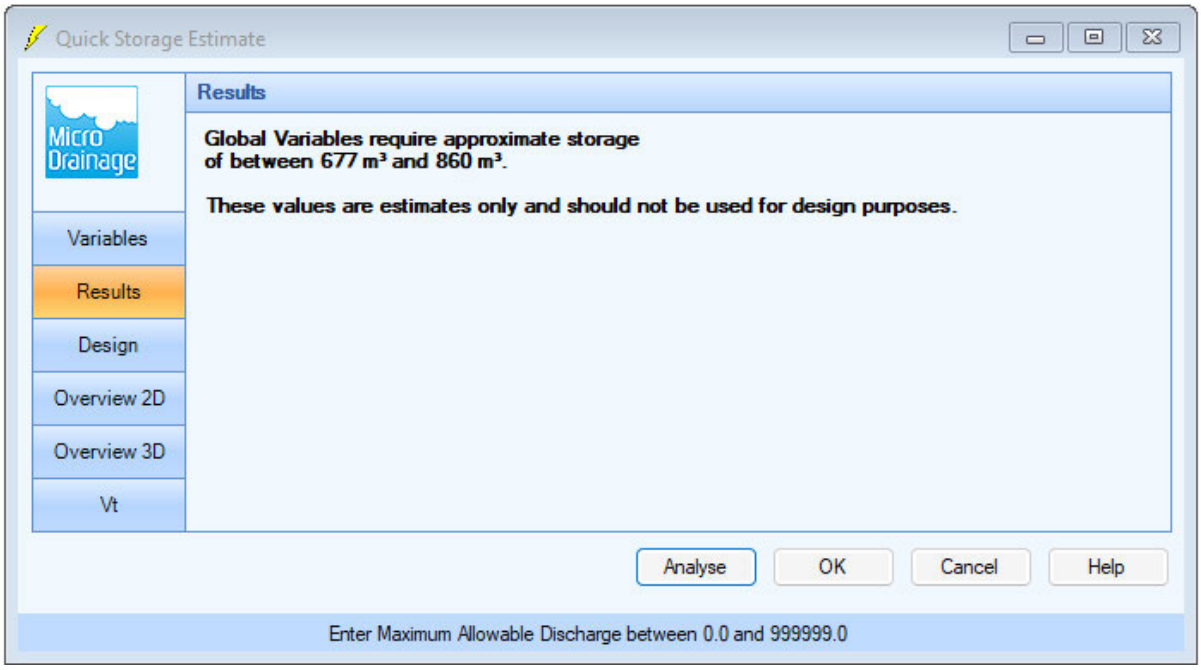
Parcel 7A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.112
Maximum Allowable Discharge (l/s) 0.3
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

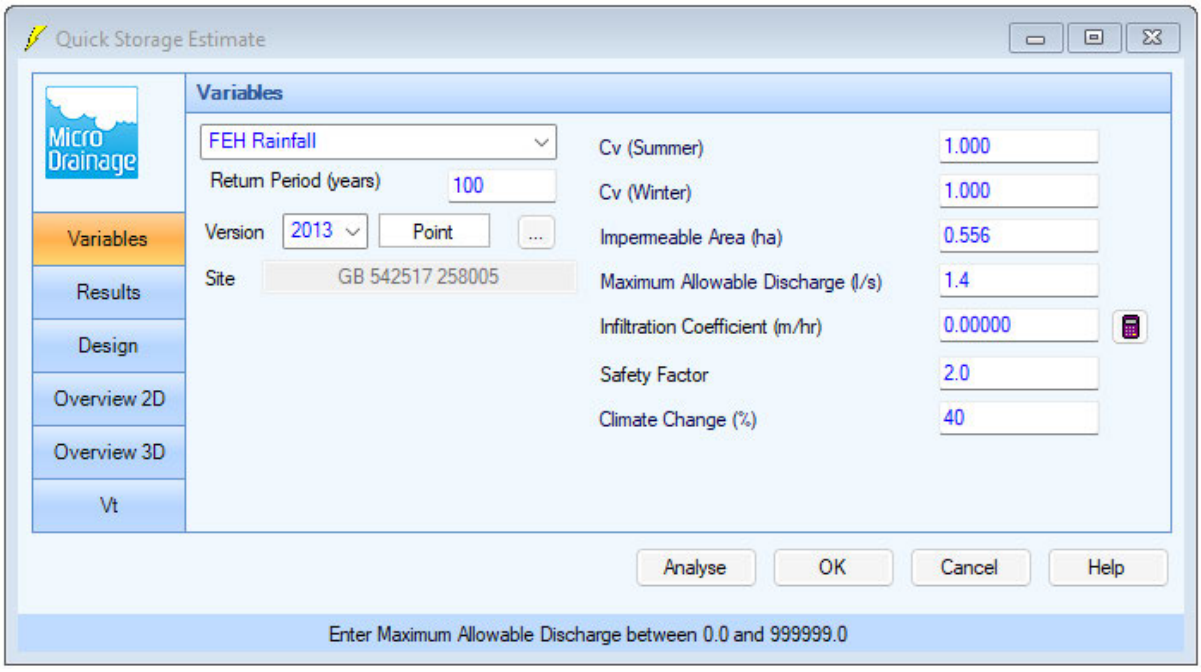

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 119 m³ and 150 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

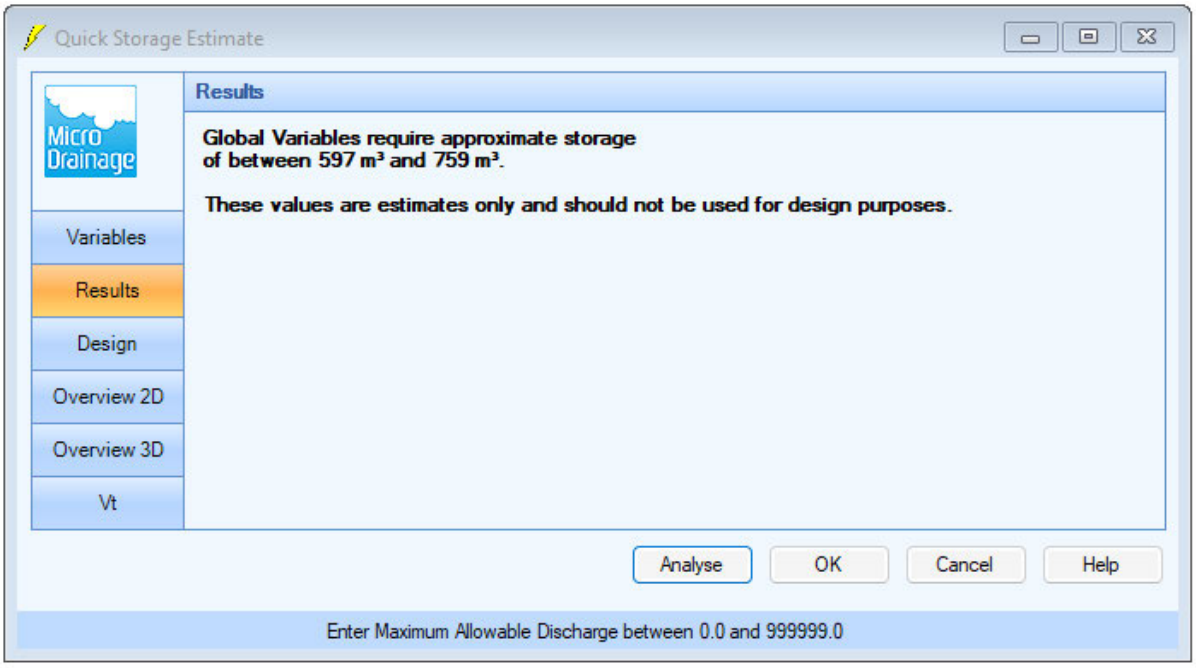
Parcel 8


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.631
Maximum Allowable Discharge (l/s) 1.6
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

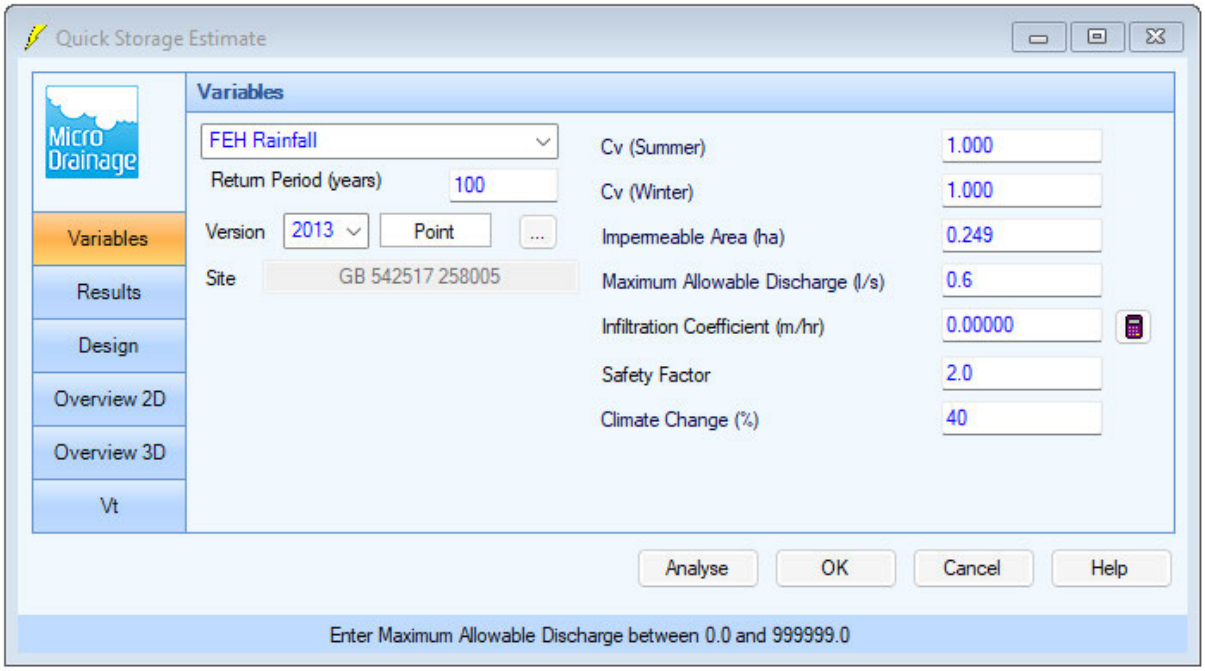

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 677 m³ and 860 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

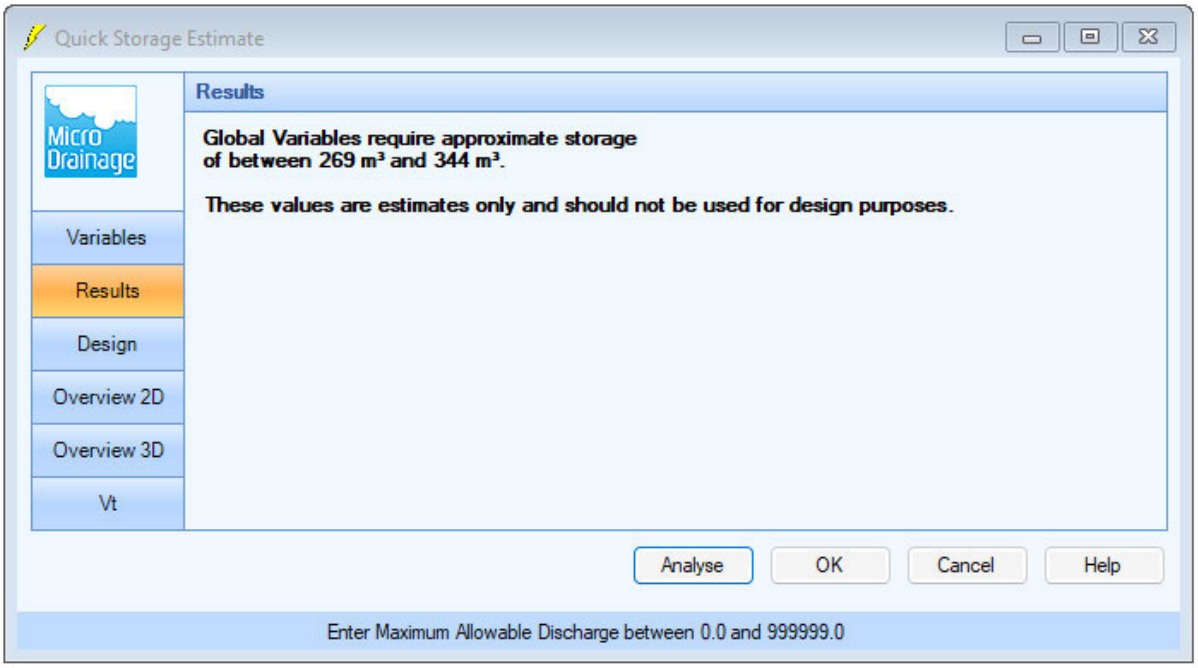
Parcel 8A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.556
Maximum Allowable Discharge (l/s) 1.4
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

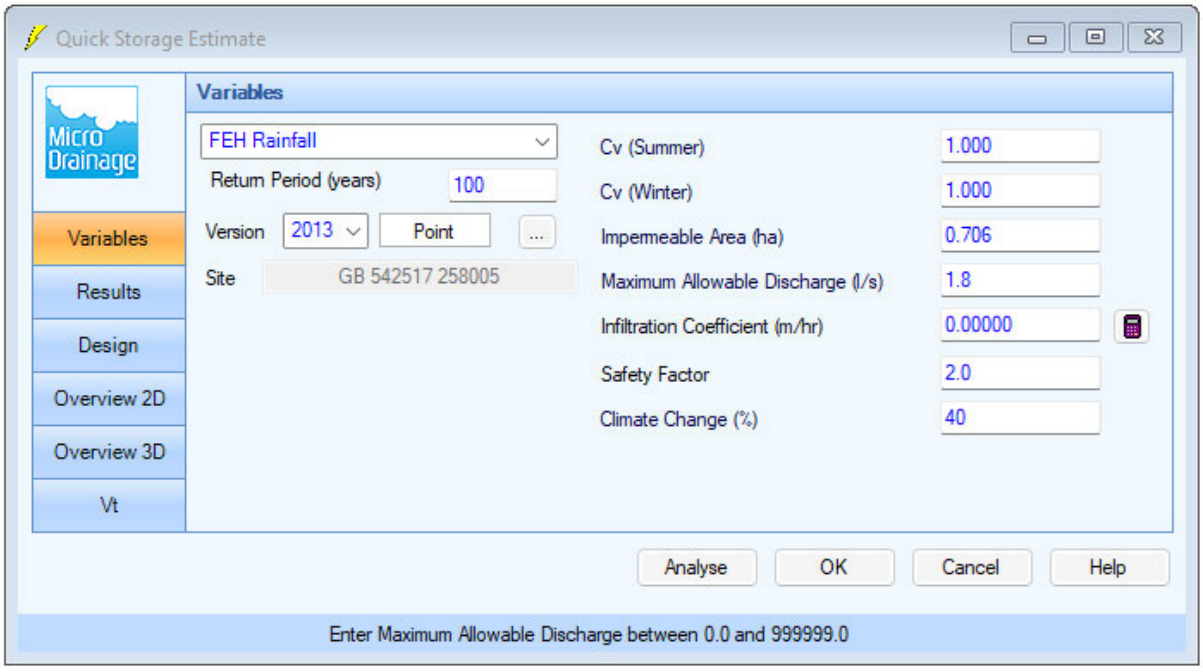

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 597 m³ and 759 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

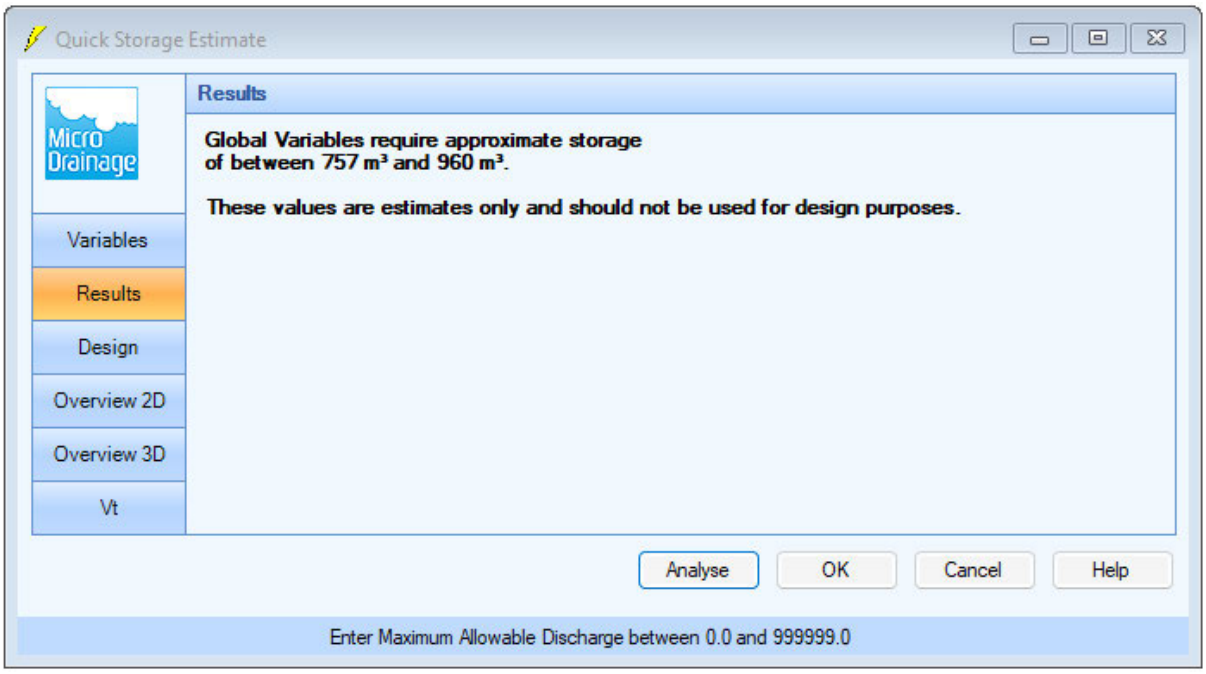
Parcel 9


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.249
Maximum Allowable Discharge (l/s) 0.6
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

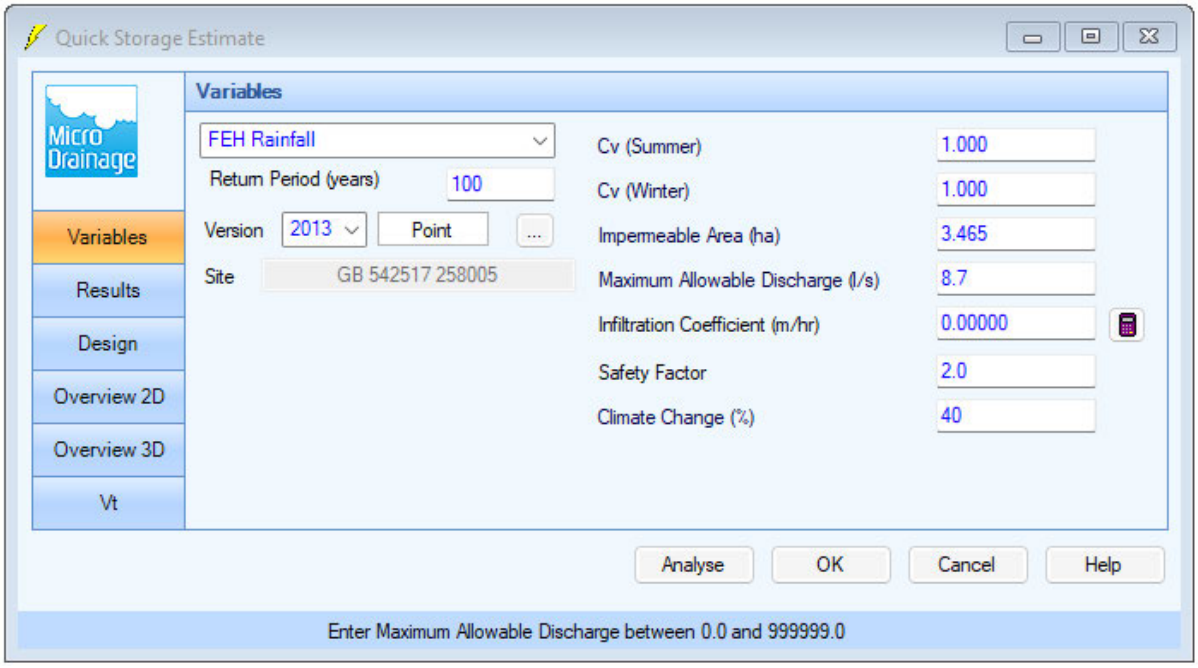

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 269 m³ and 344 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

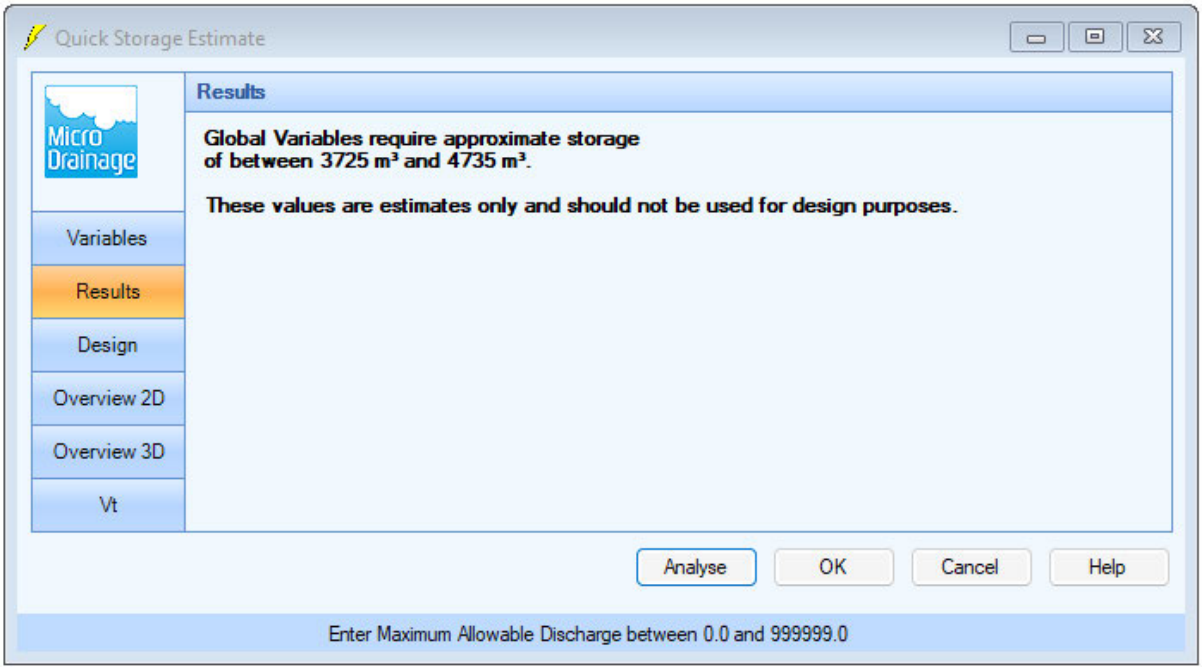
Parcel 10


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013
Point
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.706
Maximum Allowable Discharge (l/s) 1.8
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

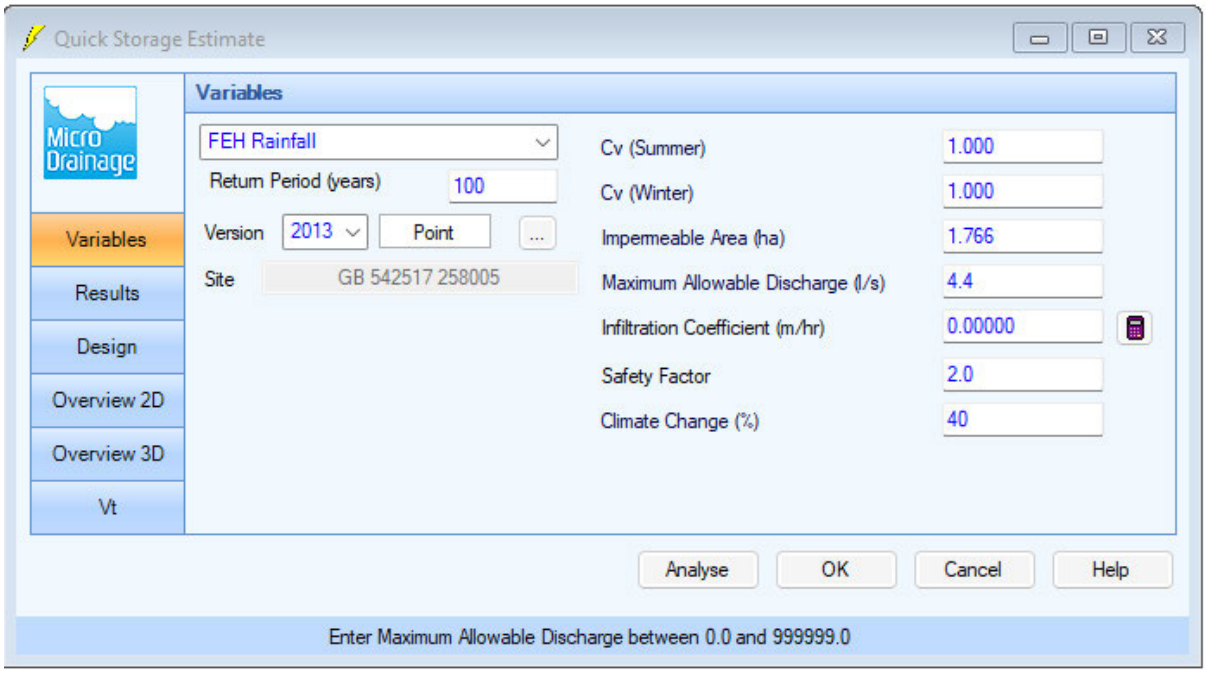

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 757 m³ and 960 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

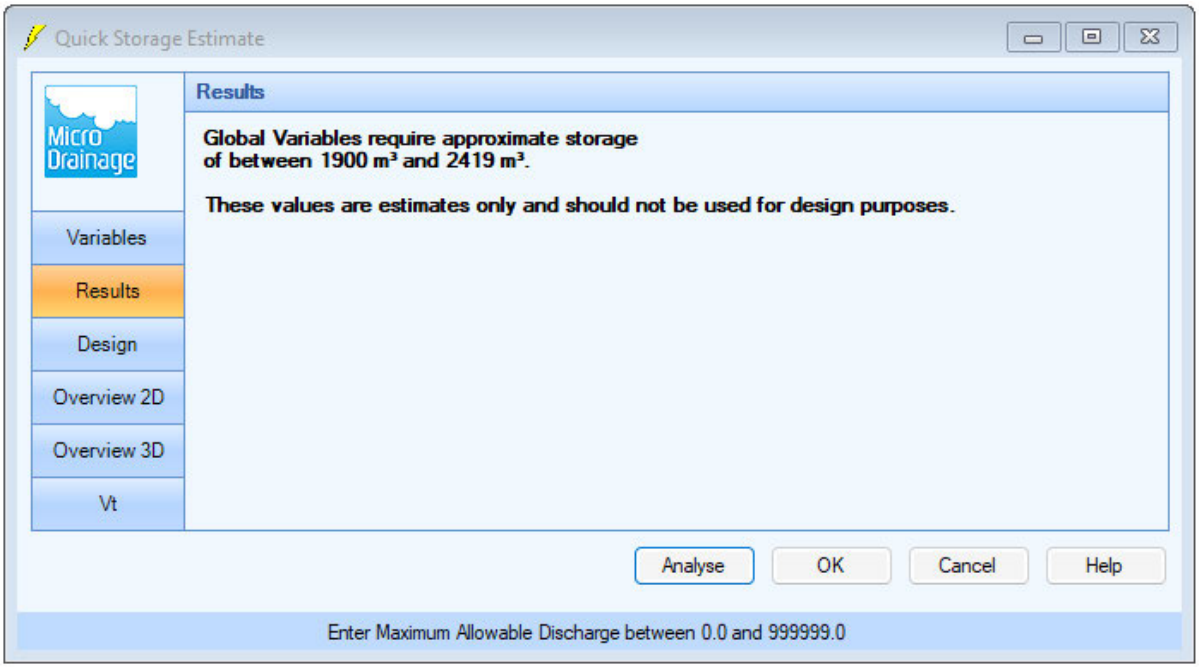
Parcel 11


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013
Point
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 3.465
Maximum Allowable Discharge (l/s) 8.7
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

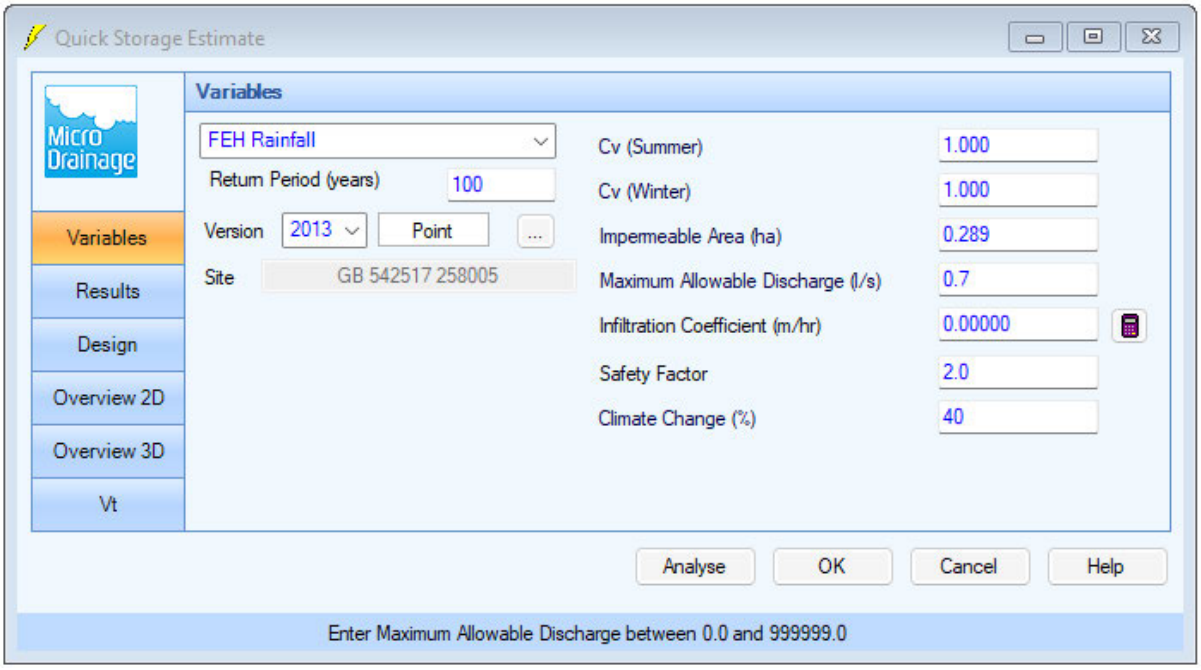

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 3725 m³ and 4735 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

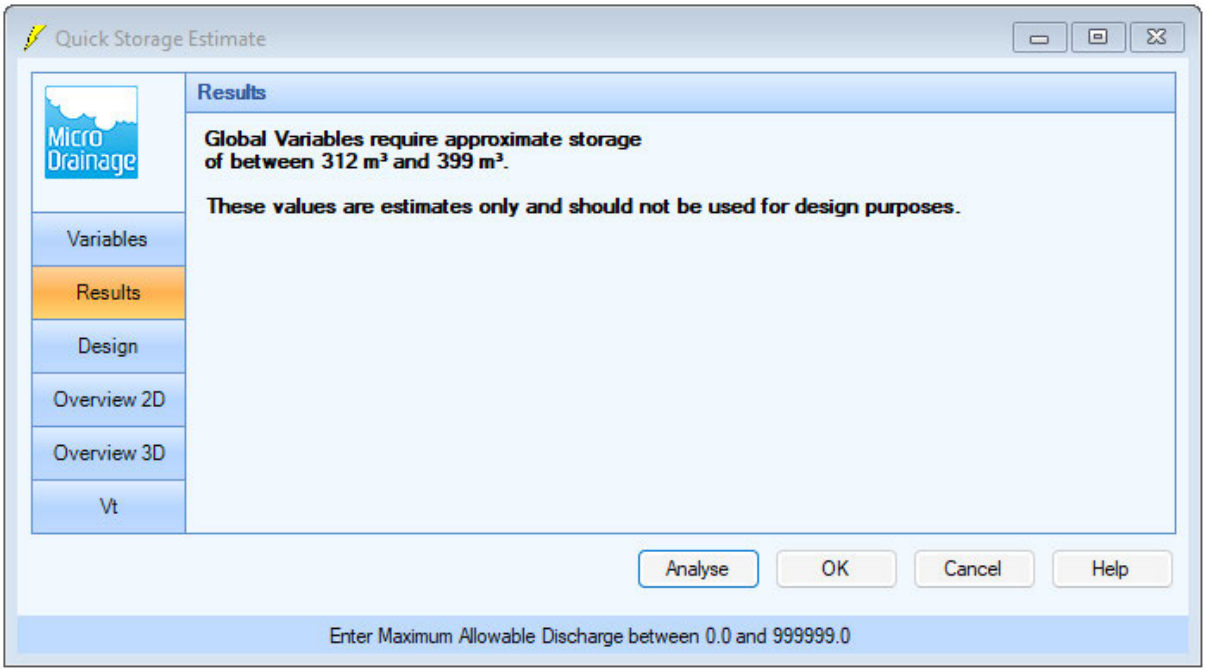
Parcel 11A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 1.766
Maximum Allowable Discharge (l/s) 4.4
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

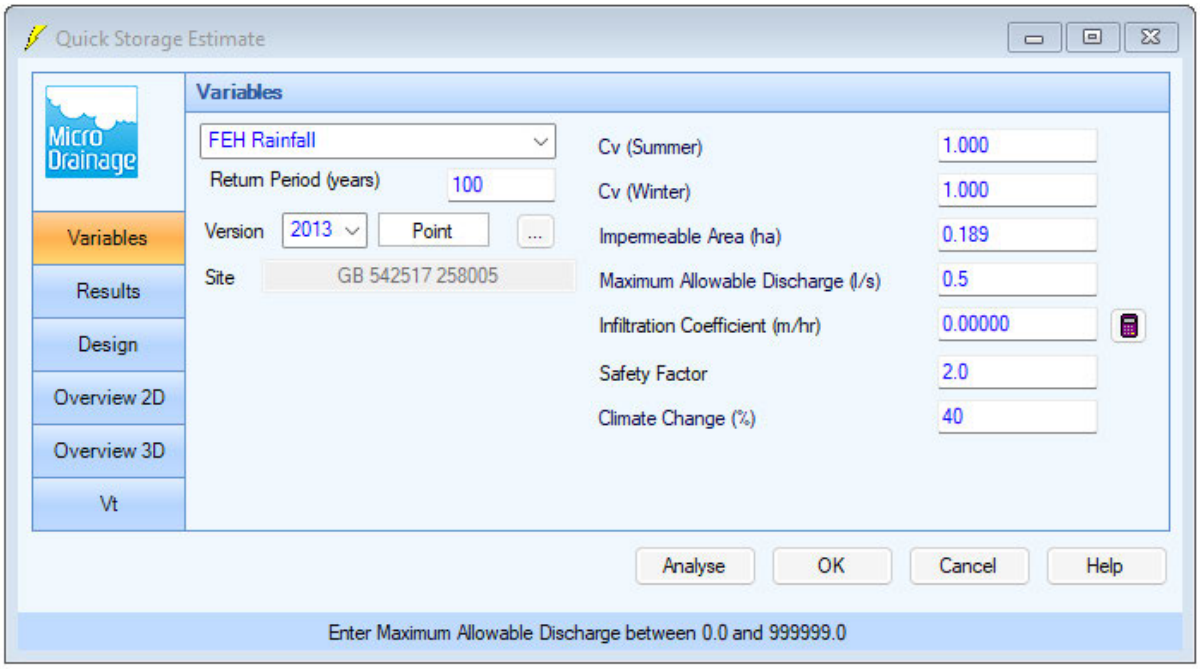

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 1900 m³ and 2419 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

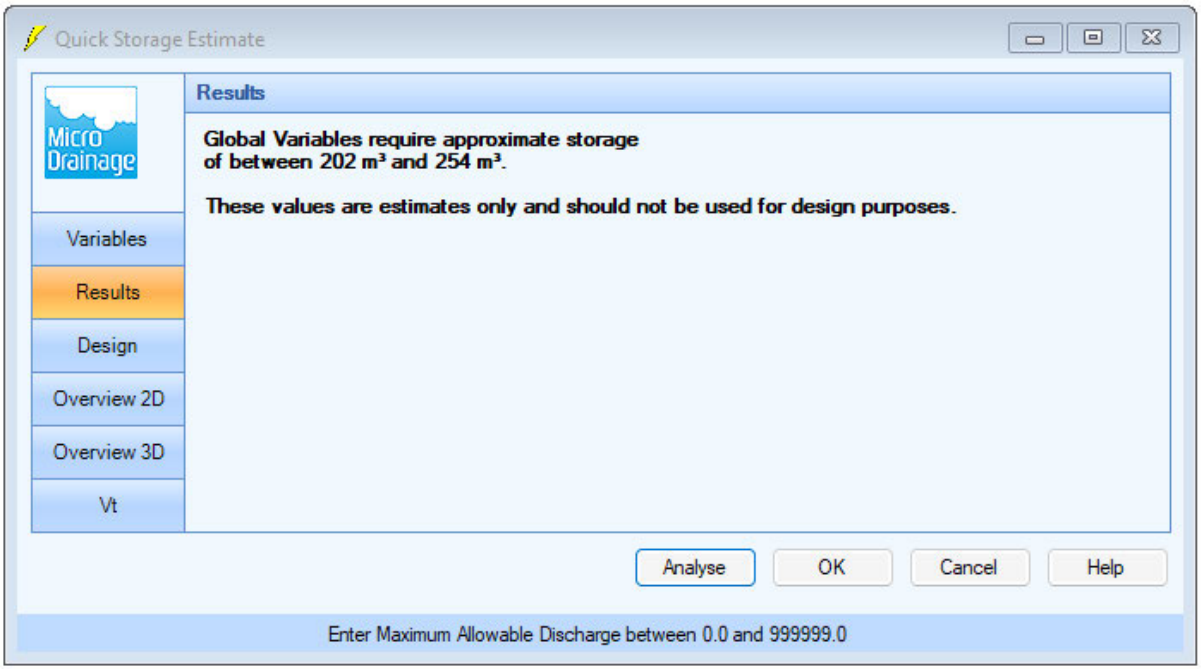
Parcel 12


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.289
Maximum Allowable Discharge (l/s) 0.7
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

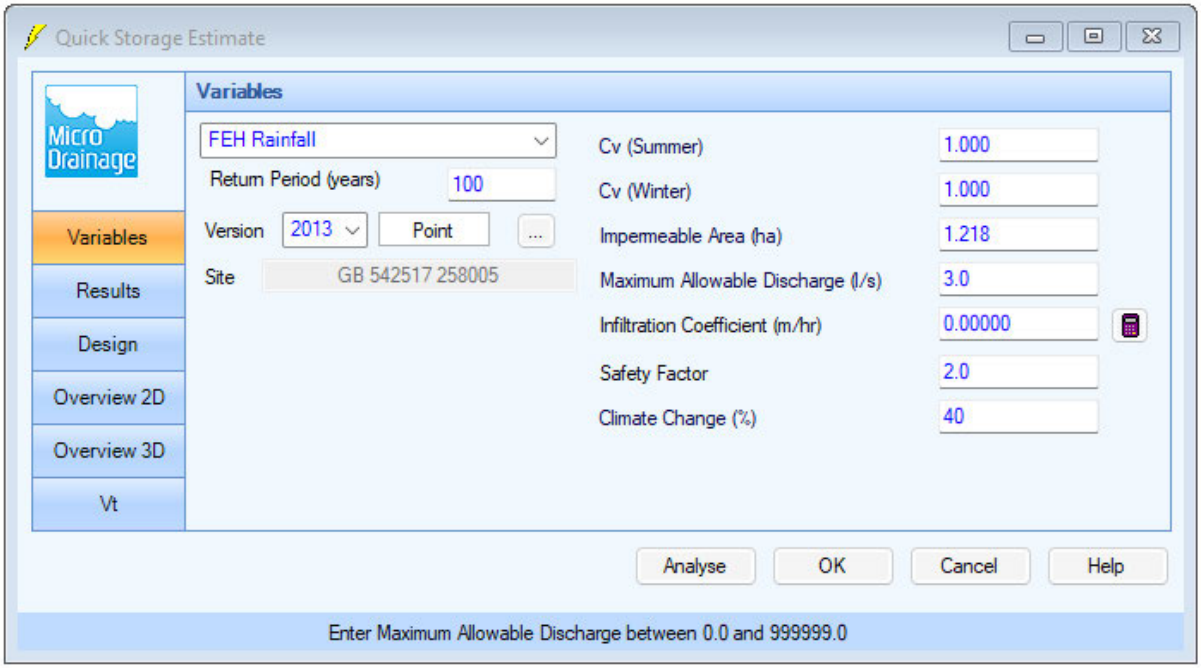

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 312 m³ and 399 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

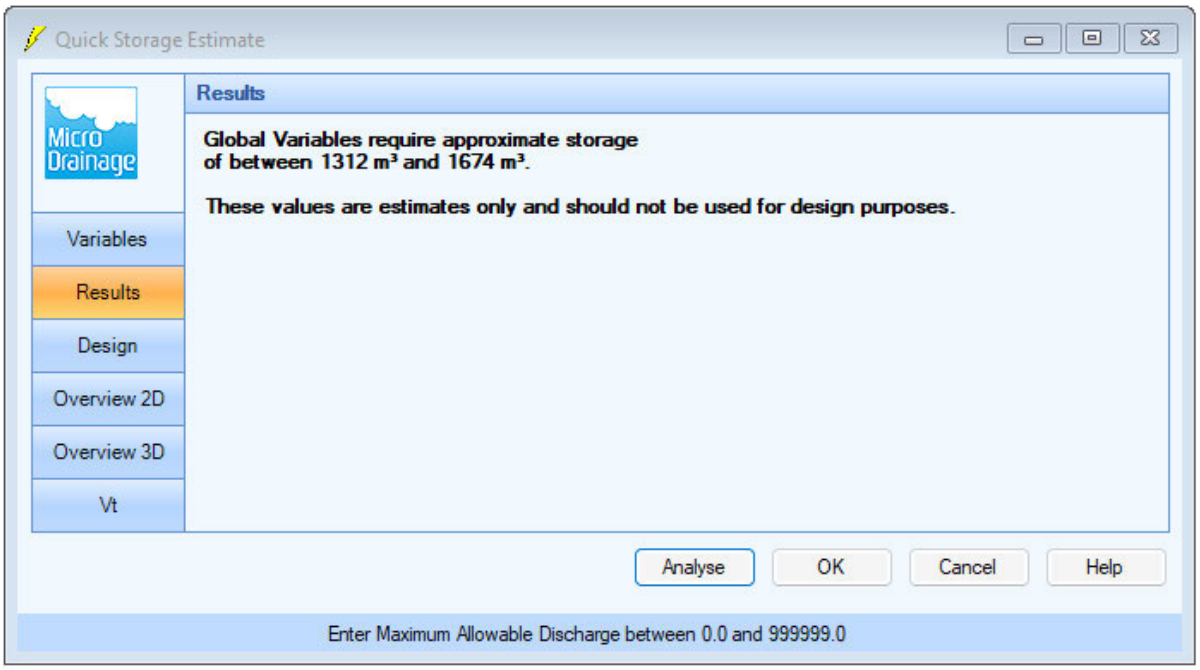
Parcel 12A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.189
Maximum Allowable Discharge (l/s) 0.5
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

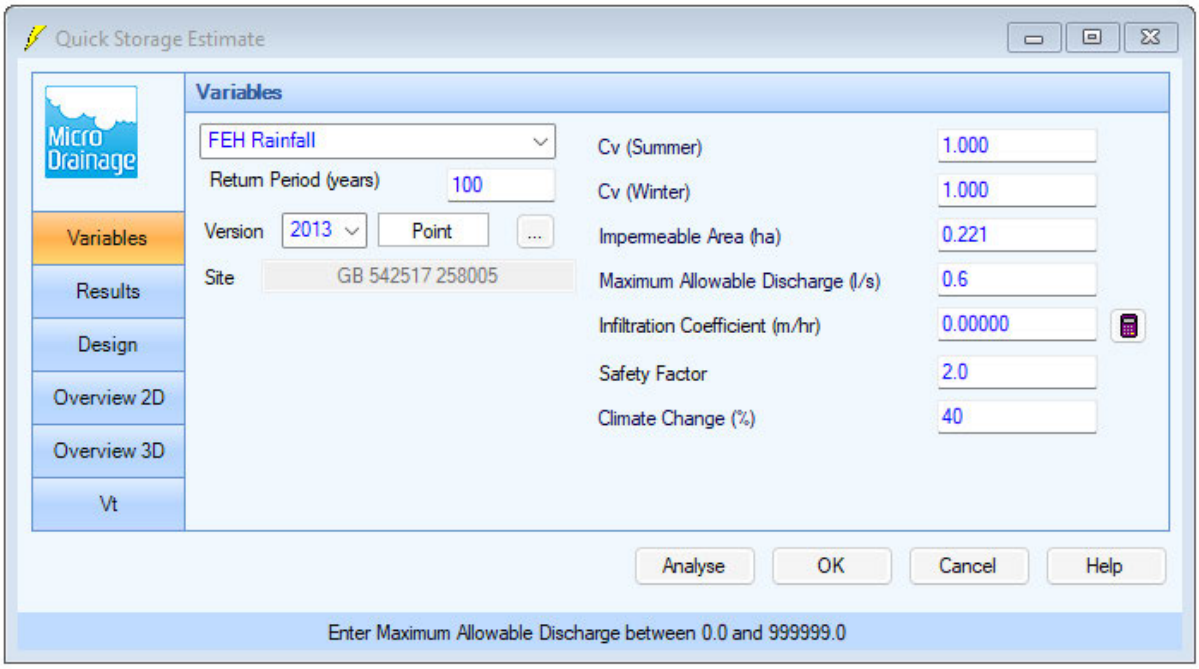

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 202 m³ and 254 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

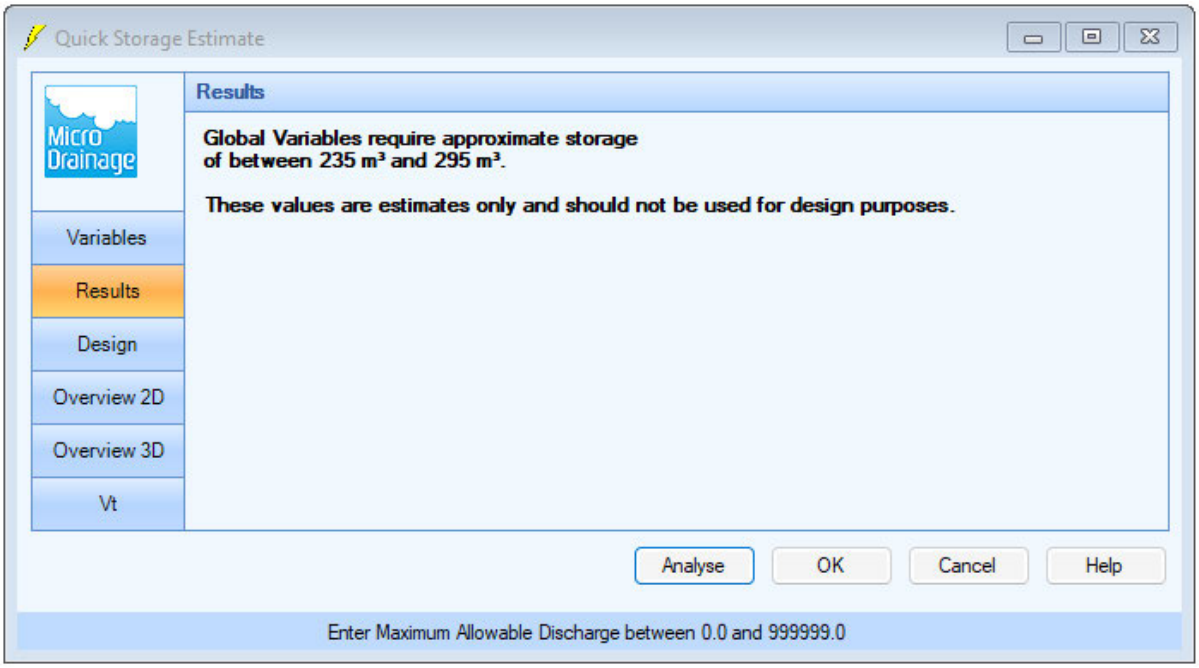
Parcel 13


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013
Point
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 1.218
Maximum Allowable Discharge (l/s) 3.0
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

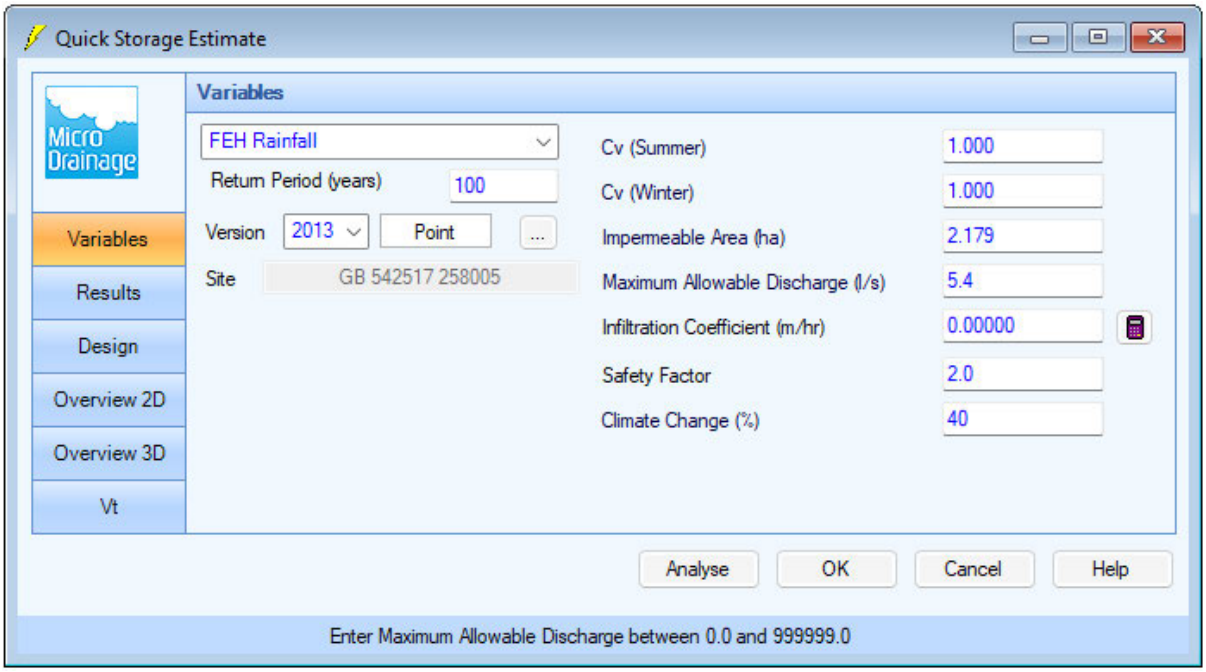

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 1312 m³ and 1674 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

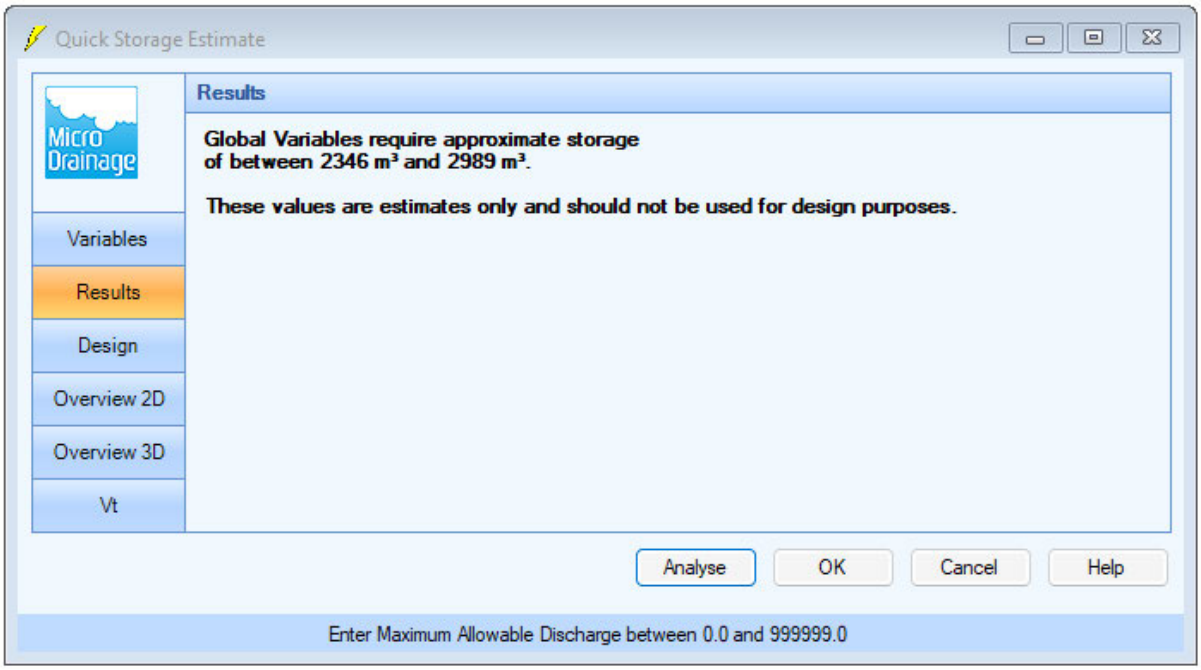
Parcel 13A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.221
Maximum Allowable Discharge (l/s) 0.6
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

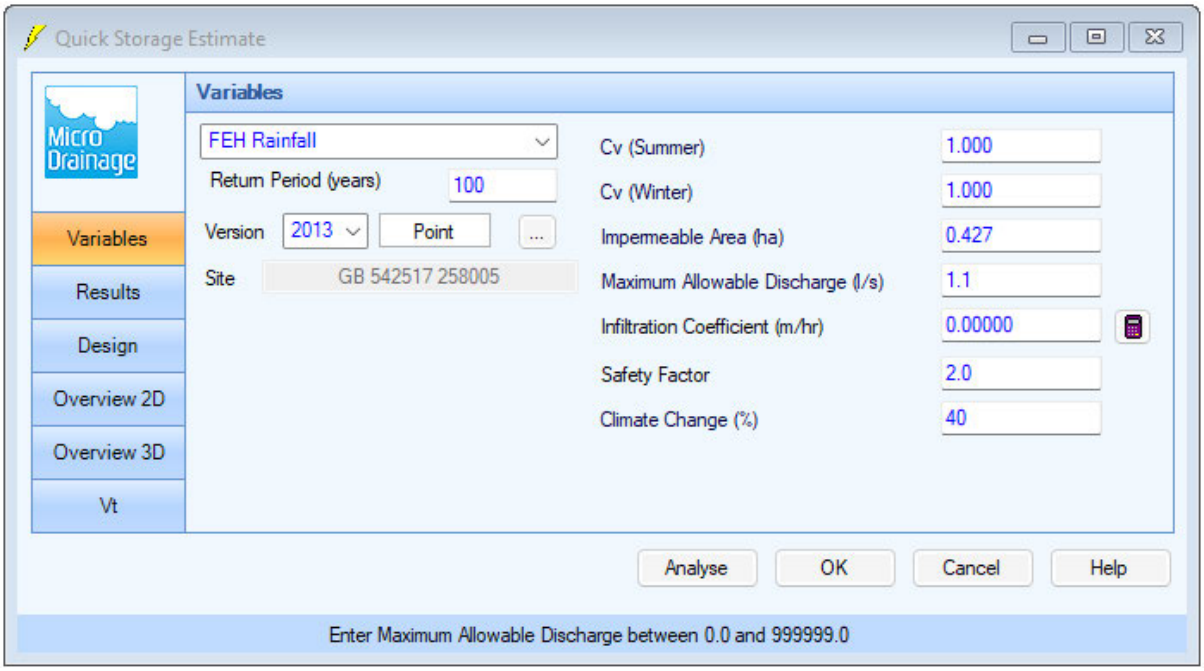

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 235 m³ and 295 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

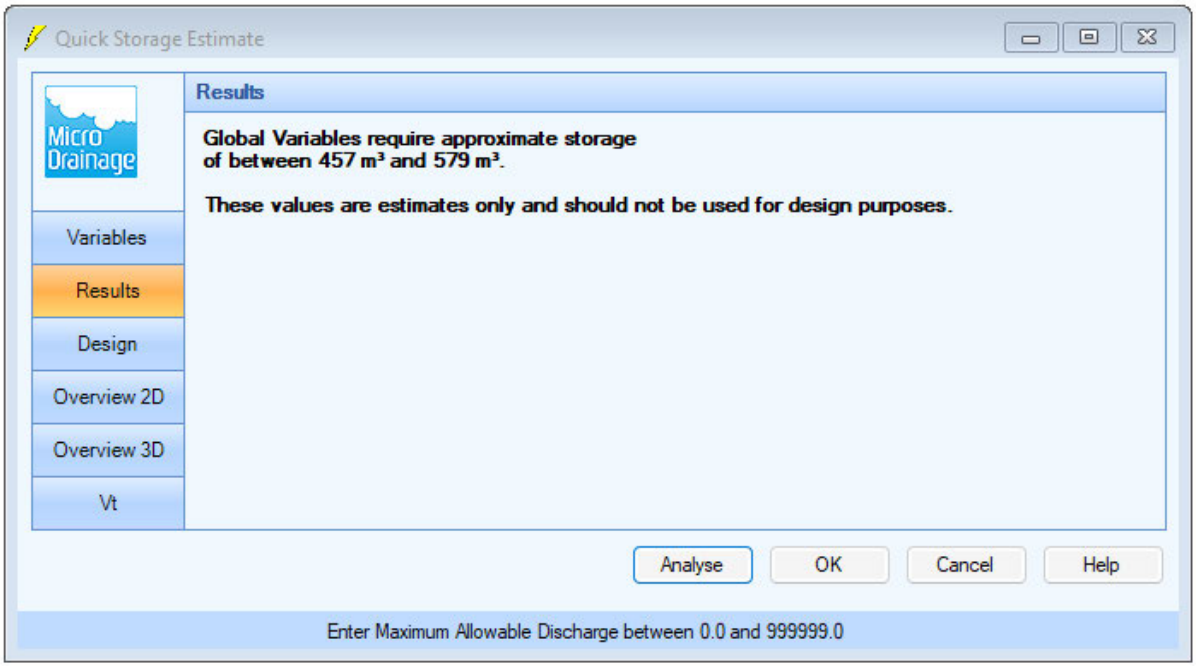
Parcel 14


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 2.179
Maximum Allowable Discharge (l/s) 5.4
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

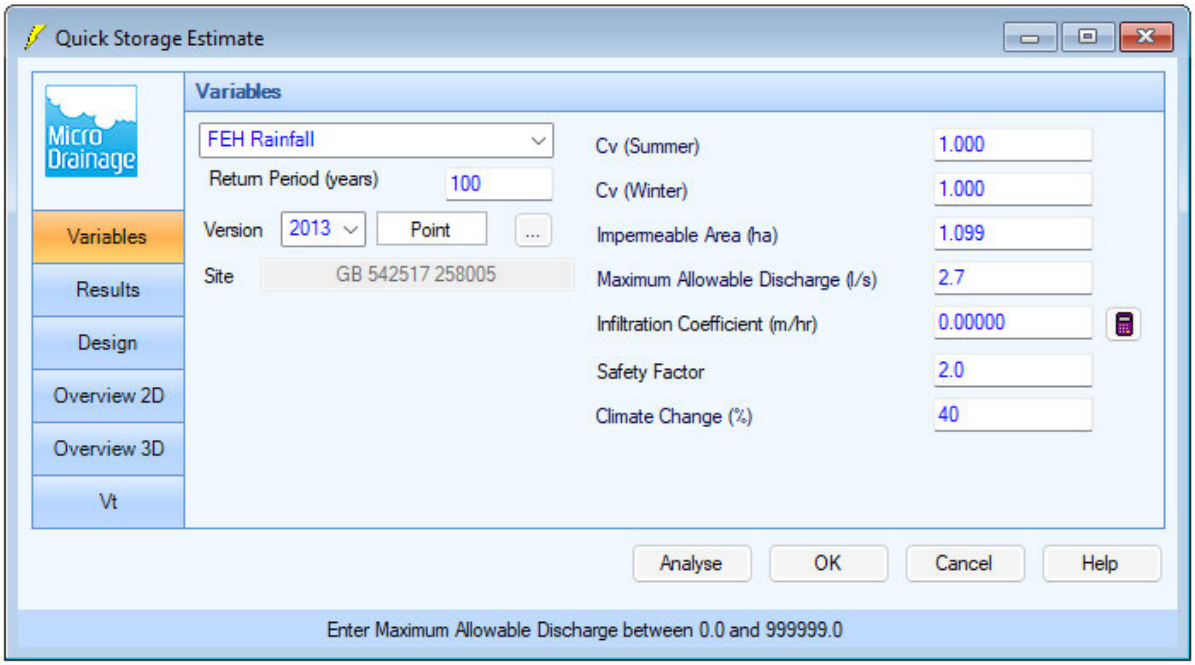

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 2346 m³ and 2989 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

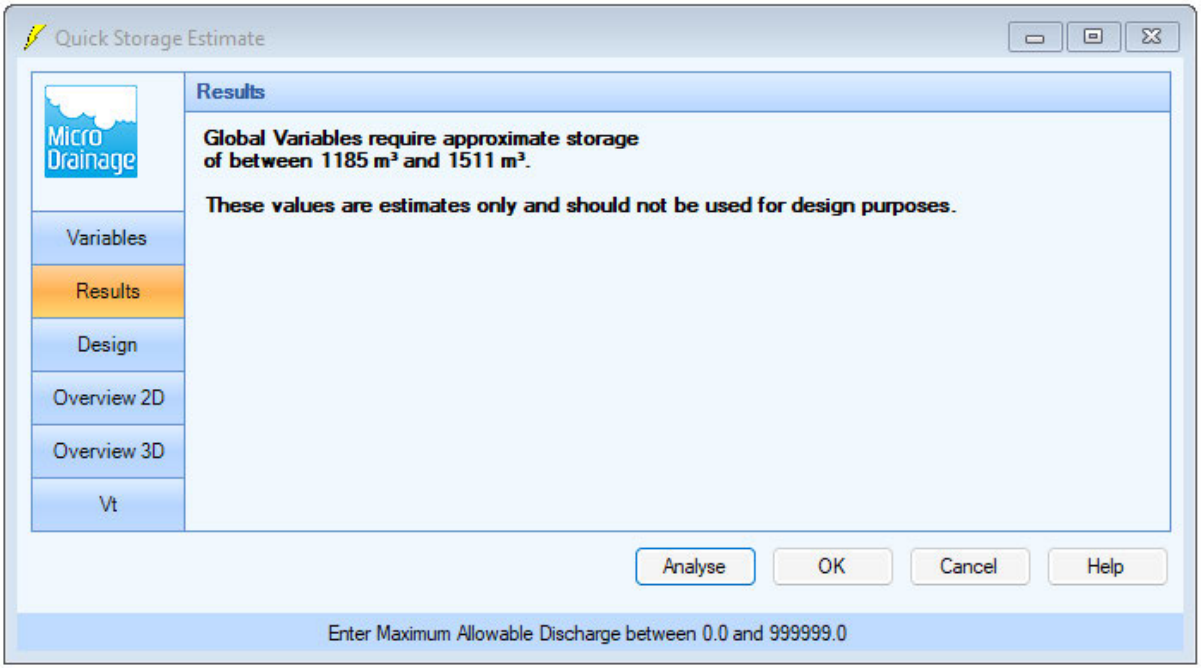
Parcel 14A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.427
Maximum Allowable Discharge (l/s) 1.1
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

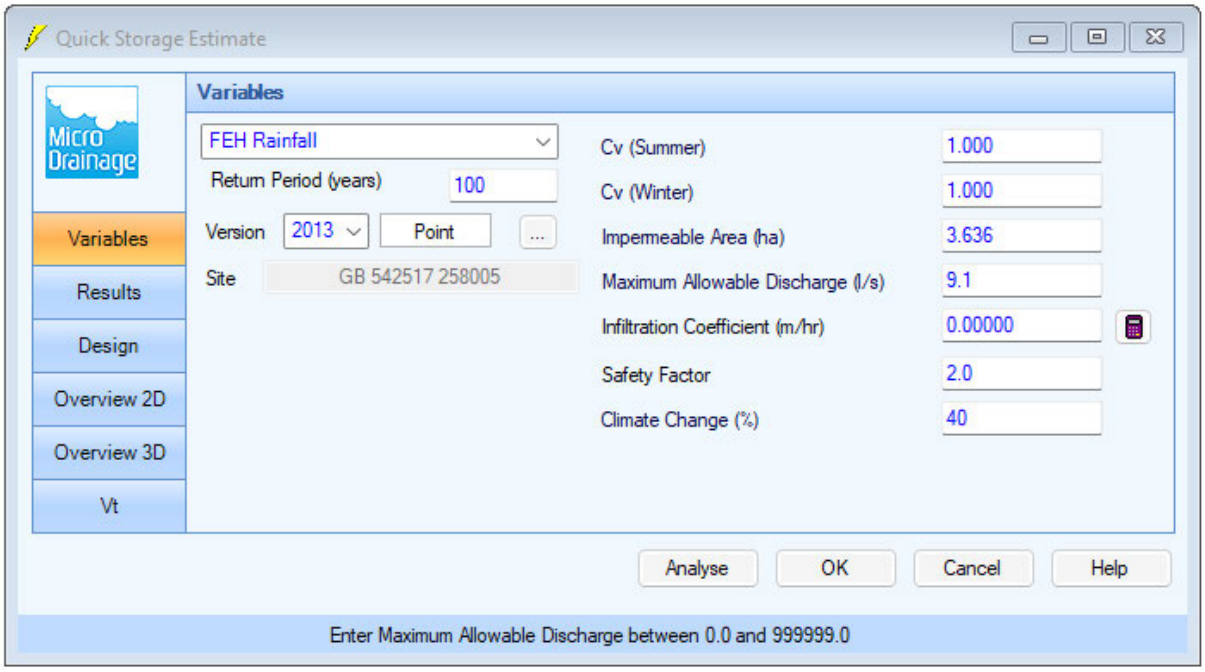

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage of between 457 m³ and 579 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

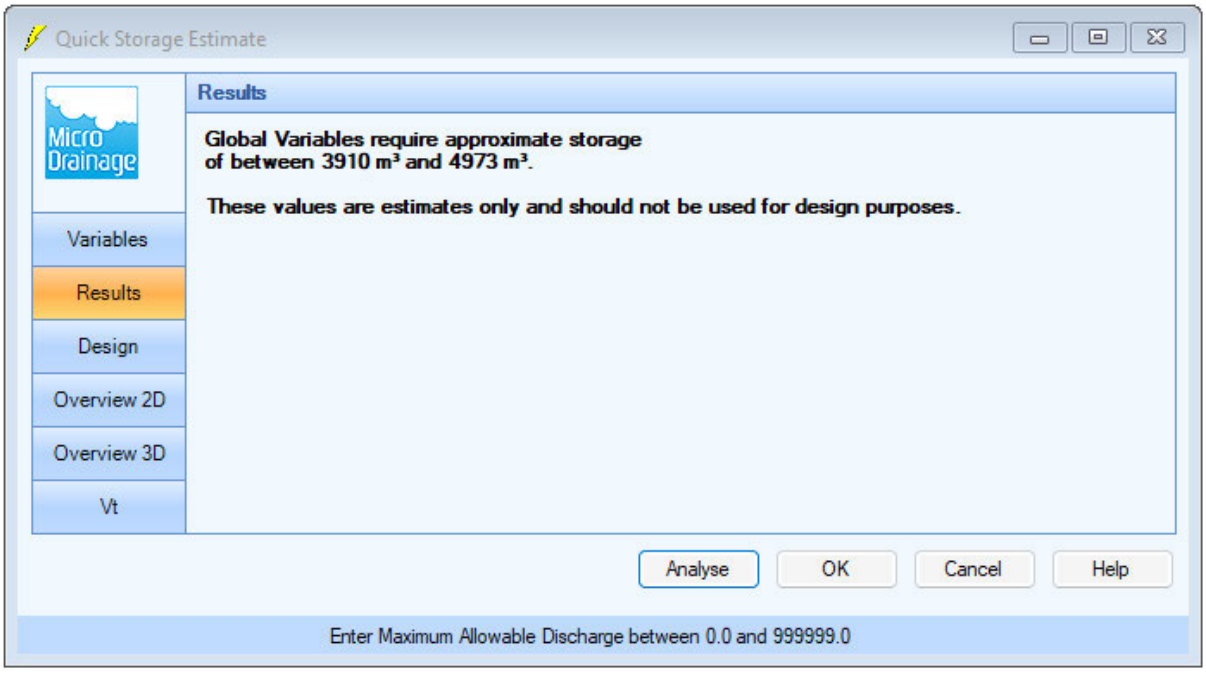
Parcel 15


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 1.099
Maximum Allowable Discharge (l/s) 2.7
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

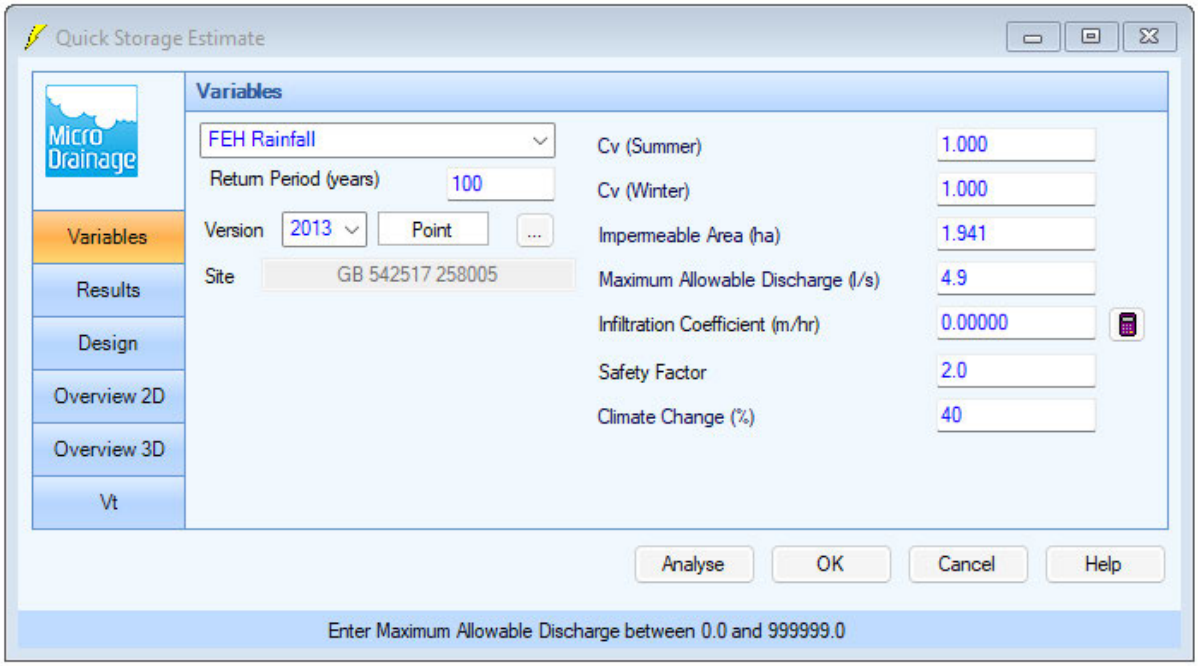

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 1185 m³ and 1511 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

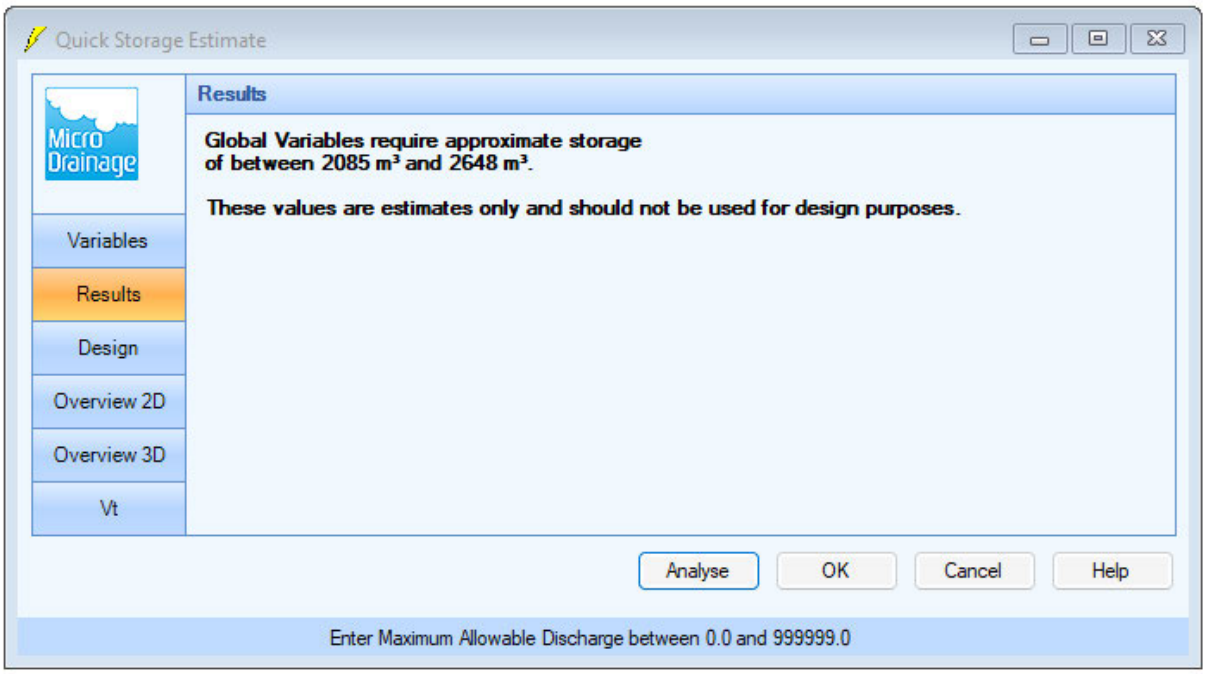
Parcel 16


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 3.636
Maximum Allowable Discharge (l/s) 9.1
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

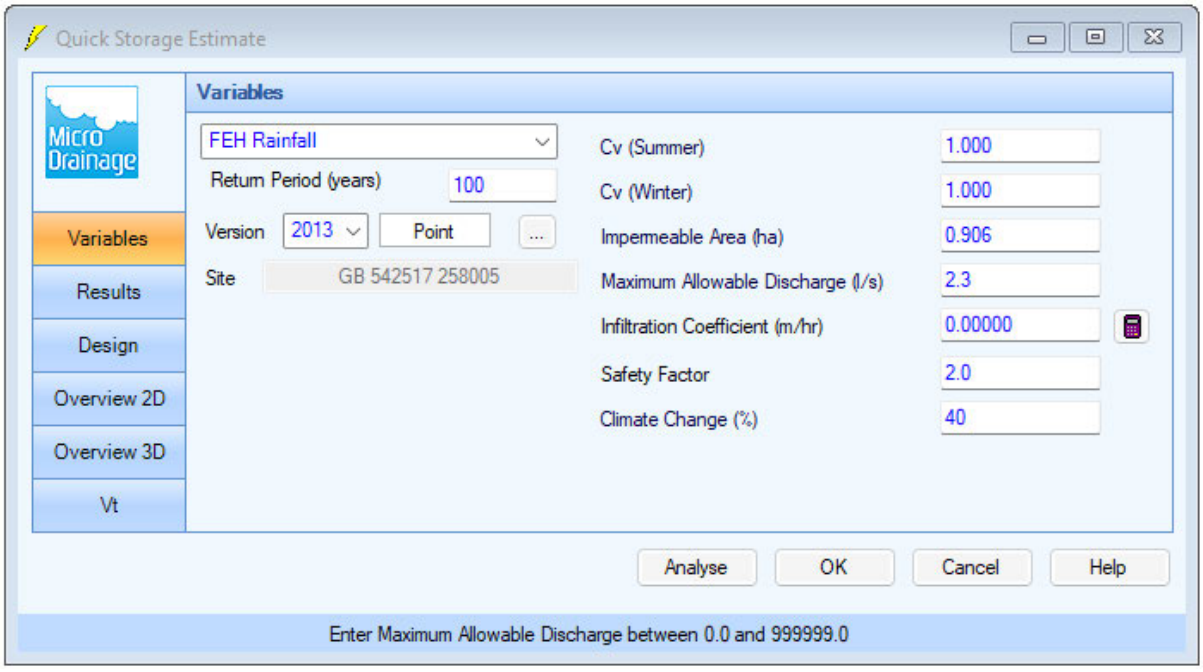

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 3910 m³ and 4973 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

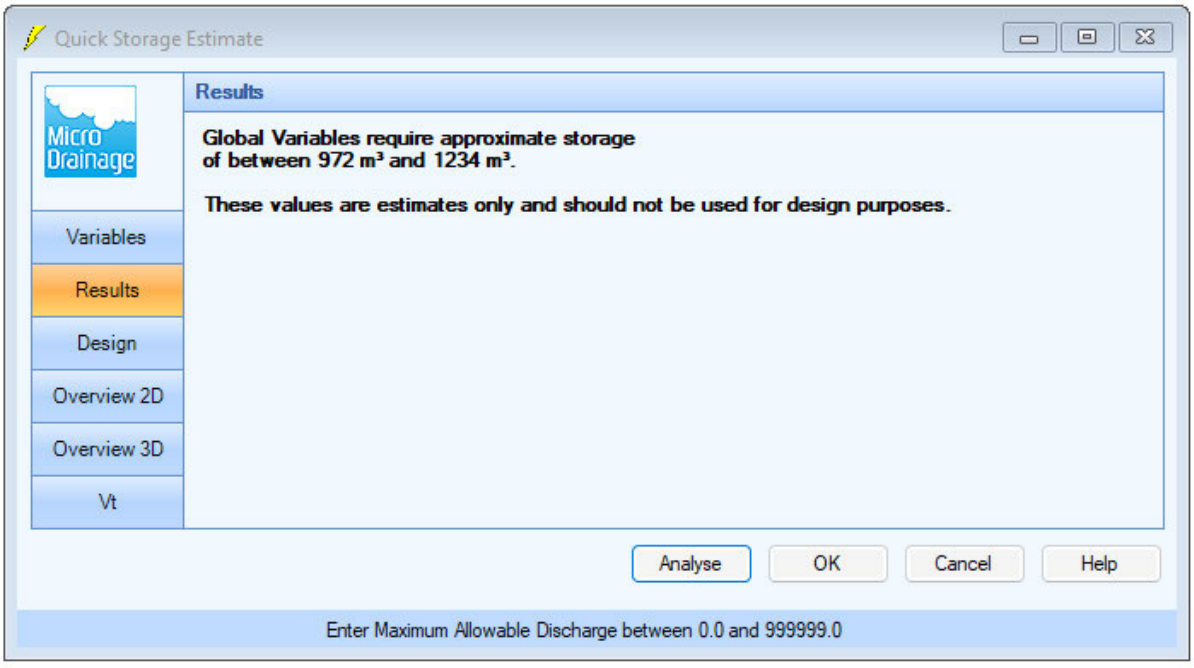
Parcel 16A


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013
Point
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 1.941
Maximum Allowable Discharge (l/s) 4.9
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

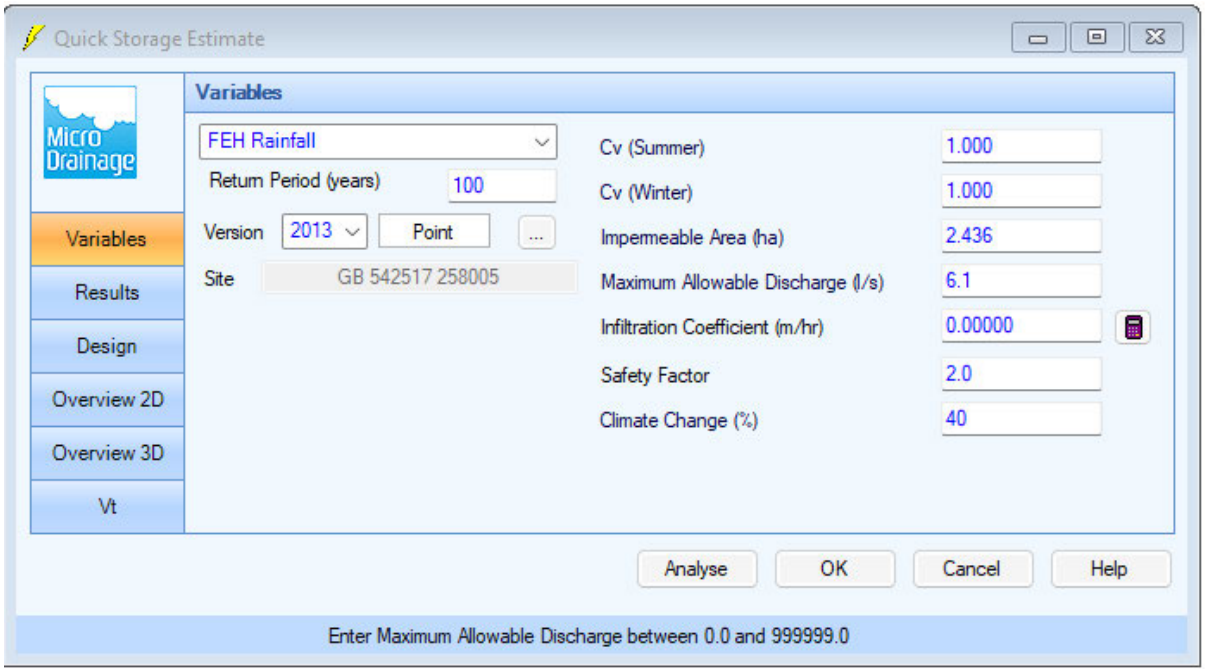

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 2085 m³ and 2648 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

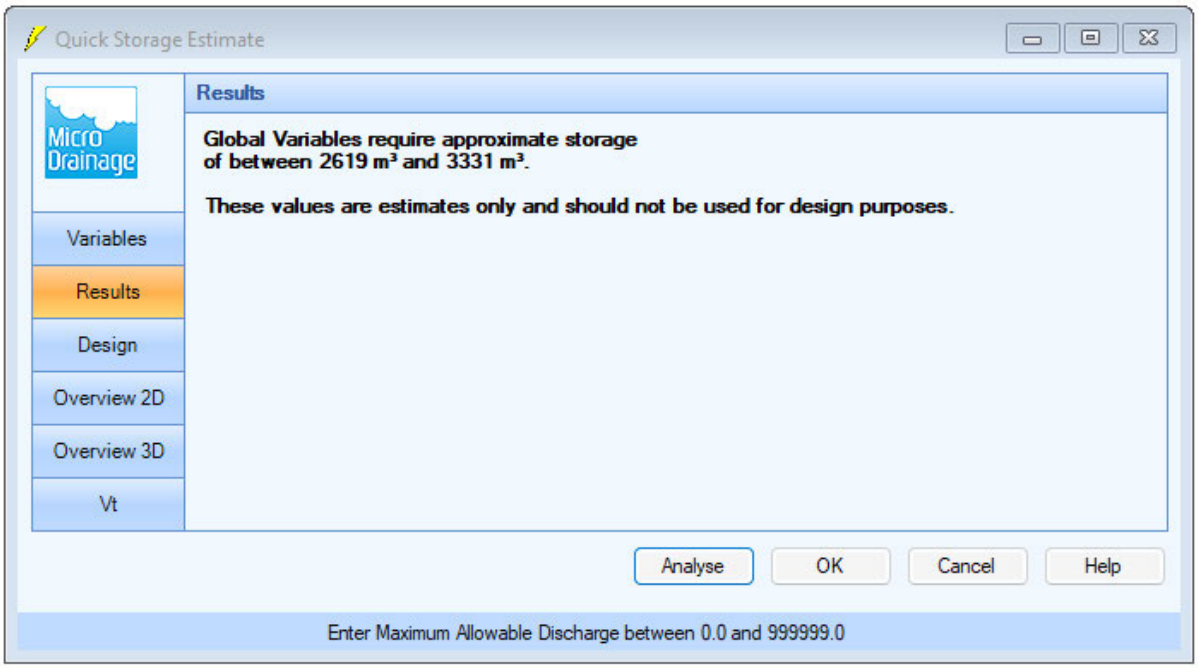
Parcel 17


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 0.906
Maximum Allowable Discharge (l/s) 2.3
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

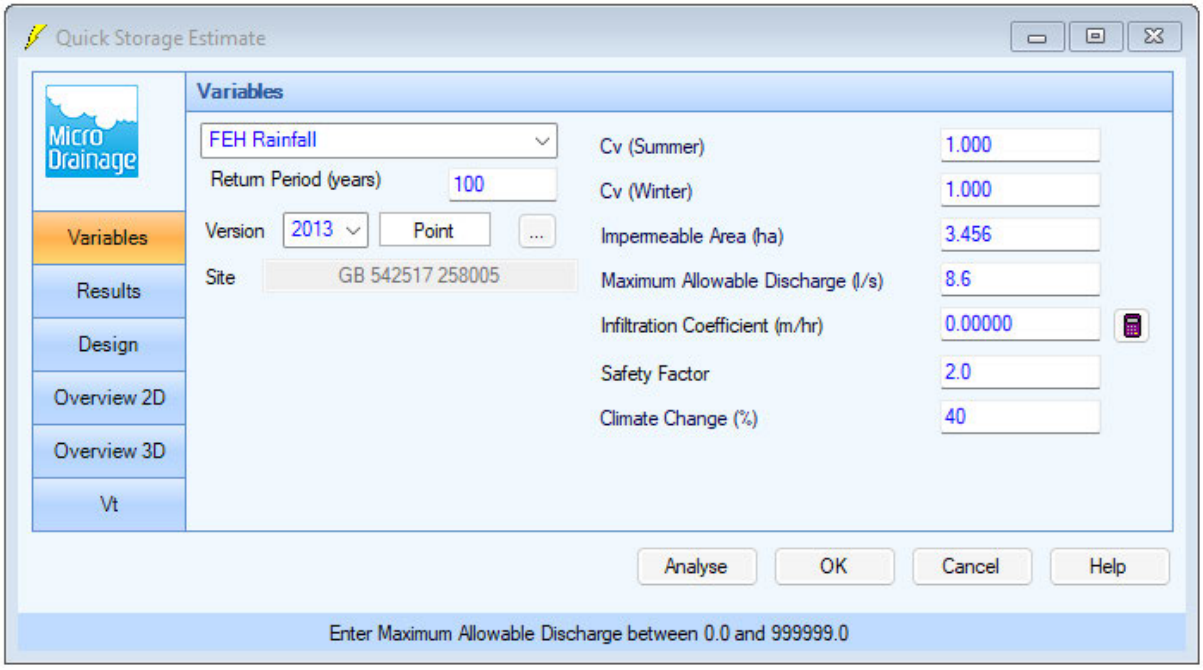

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage of between 972 m³ and 1234 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

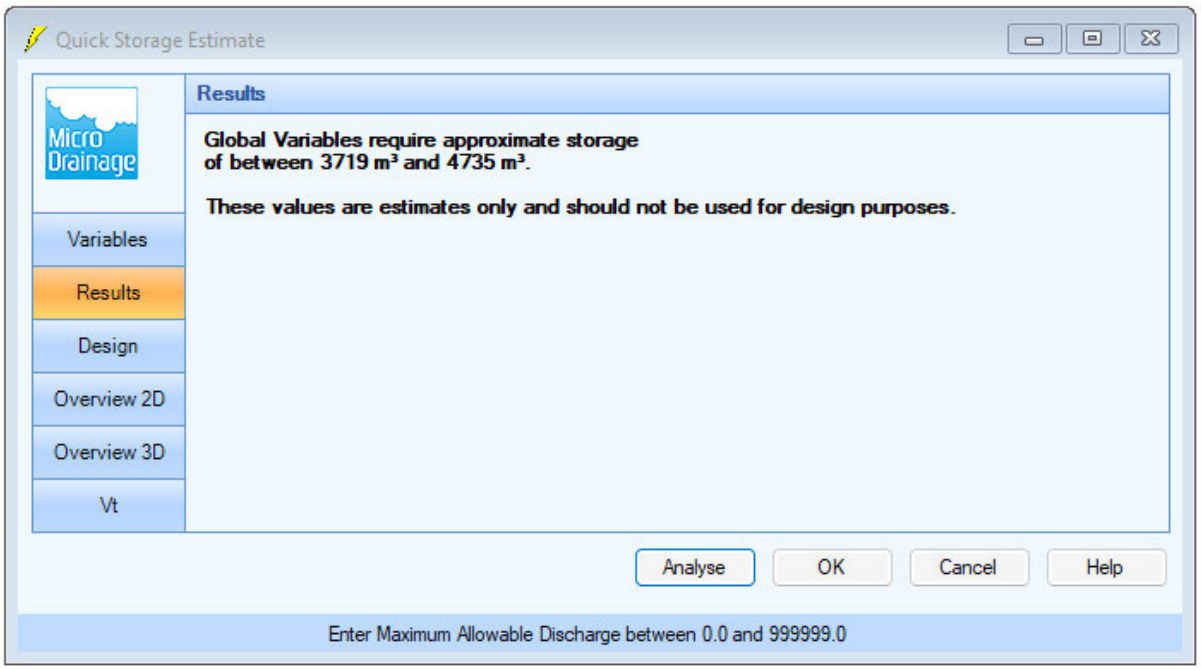
Parcel 18


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 2.436
Maximum Allowable Discharge (l/s) 6.1
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

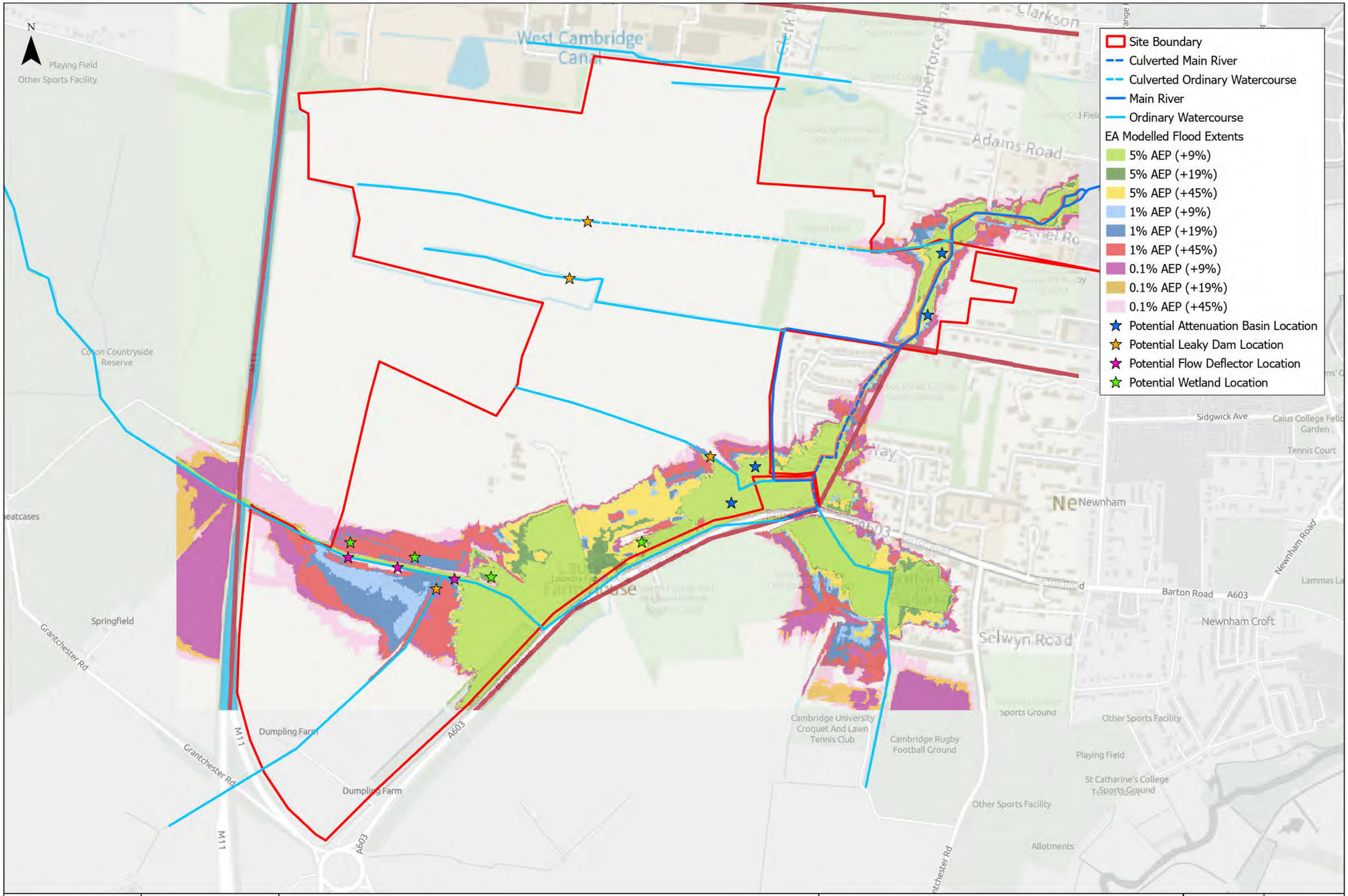

Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage of between 2619 m³ and 3331 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

Parcel 19


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Variables
FEH Rainfall
Return Period (years) 100
Version 2013 Point ...
Site GB 542517 258005
Cv (Summer) 1.000
Cv (Winter) 1.000
Impermeable Area (ha) 3.456
Maximum Allowable Discharge (l/s) 8.6
Infiltration Coefficient (m/hr) 0.00000
Safety Factor 2.0
Climate Change (%) 40
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0


Quick Storage Estimate
Micro Drainage
Variables
Results
Design
Overview 2D
Overview 3D
Vt
Results
Global Variables require approximate storage
of between 3719 m³ and 4735 m³.
These values are estimates only and should not be used for design purposes.
Analyse
OK
Cancel
Help
Enter Maximum Allowable Discharge between 0.0 and 999999.0

Appendix I NFM Map



Stantec	Client: St Johns College	**South West Cambridge** Potential NFM Locations	0 250 500 m GB Light Grey: Contains OS data © Crown Copyright and database right 2026 Contains data from OS Zoomstack	1:8,000 @ A3	Date: 28/01/2026
				Drawn: JB	Checked: RF
				Figure: 12	Rev A