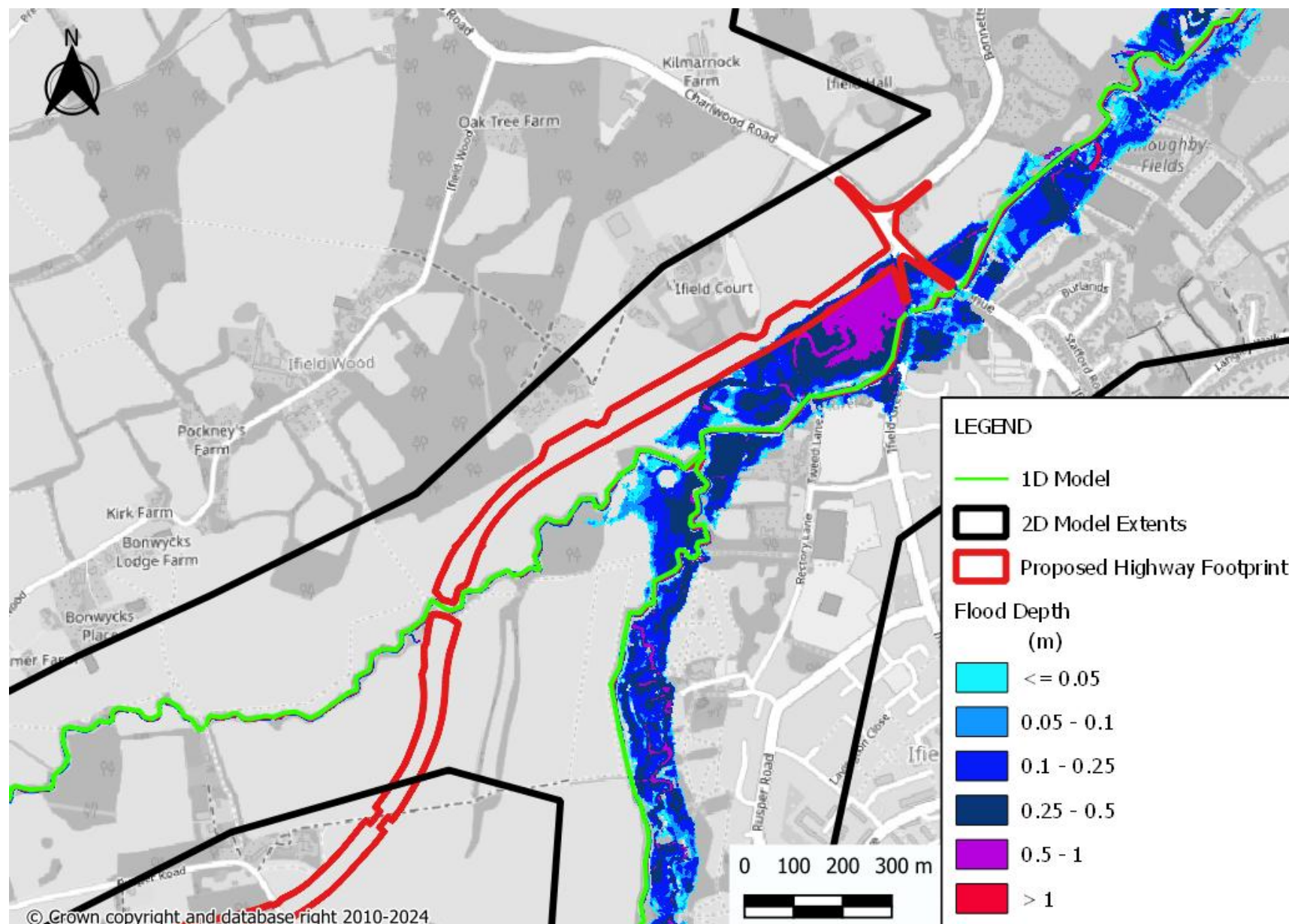


Annex 3

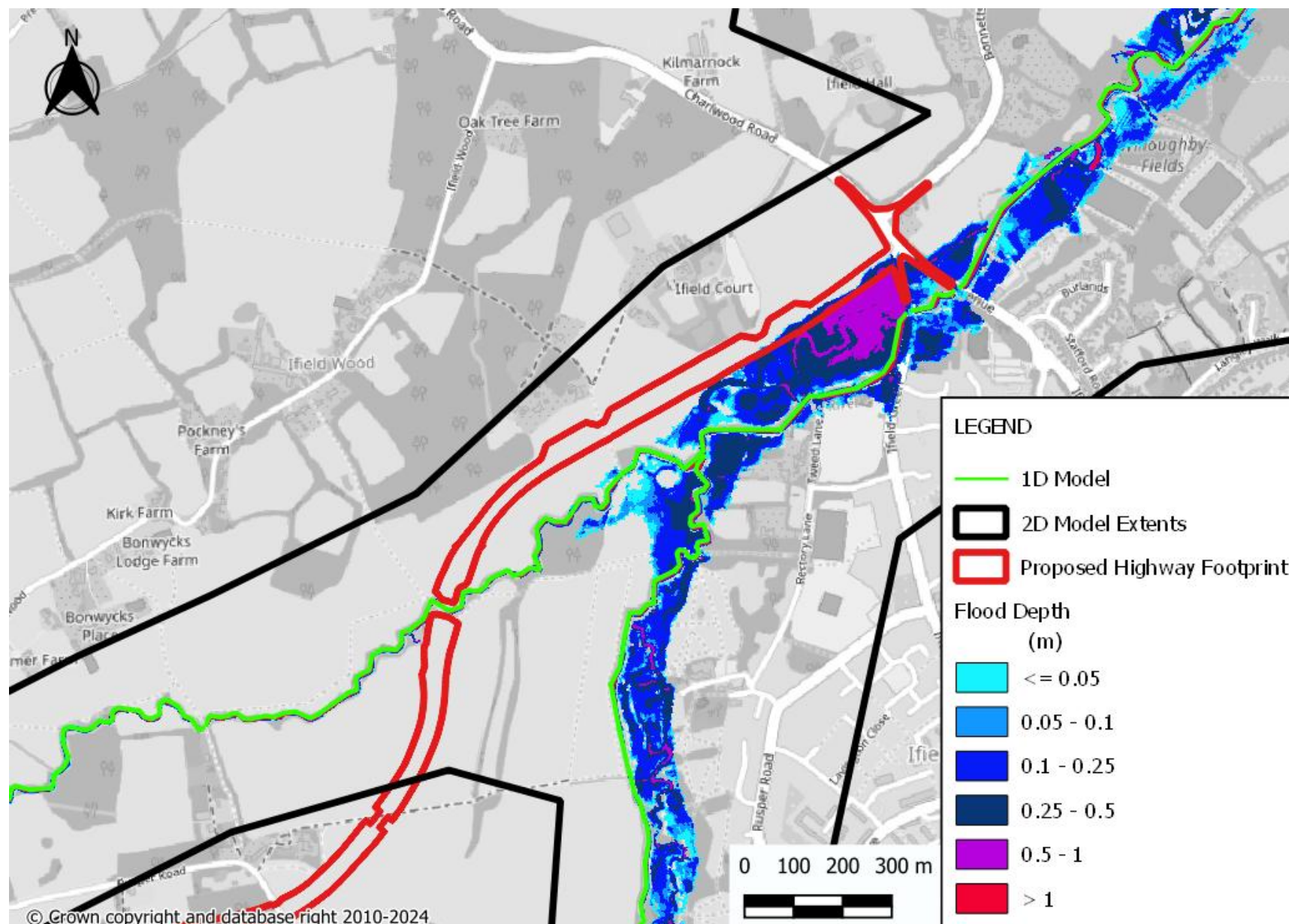
Flood Maps

Baseline Flood Extent and Depth

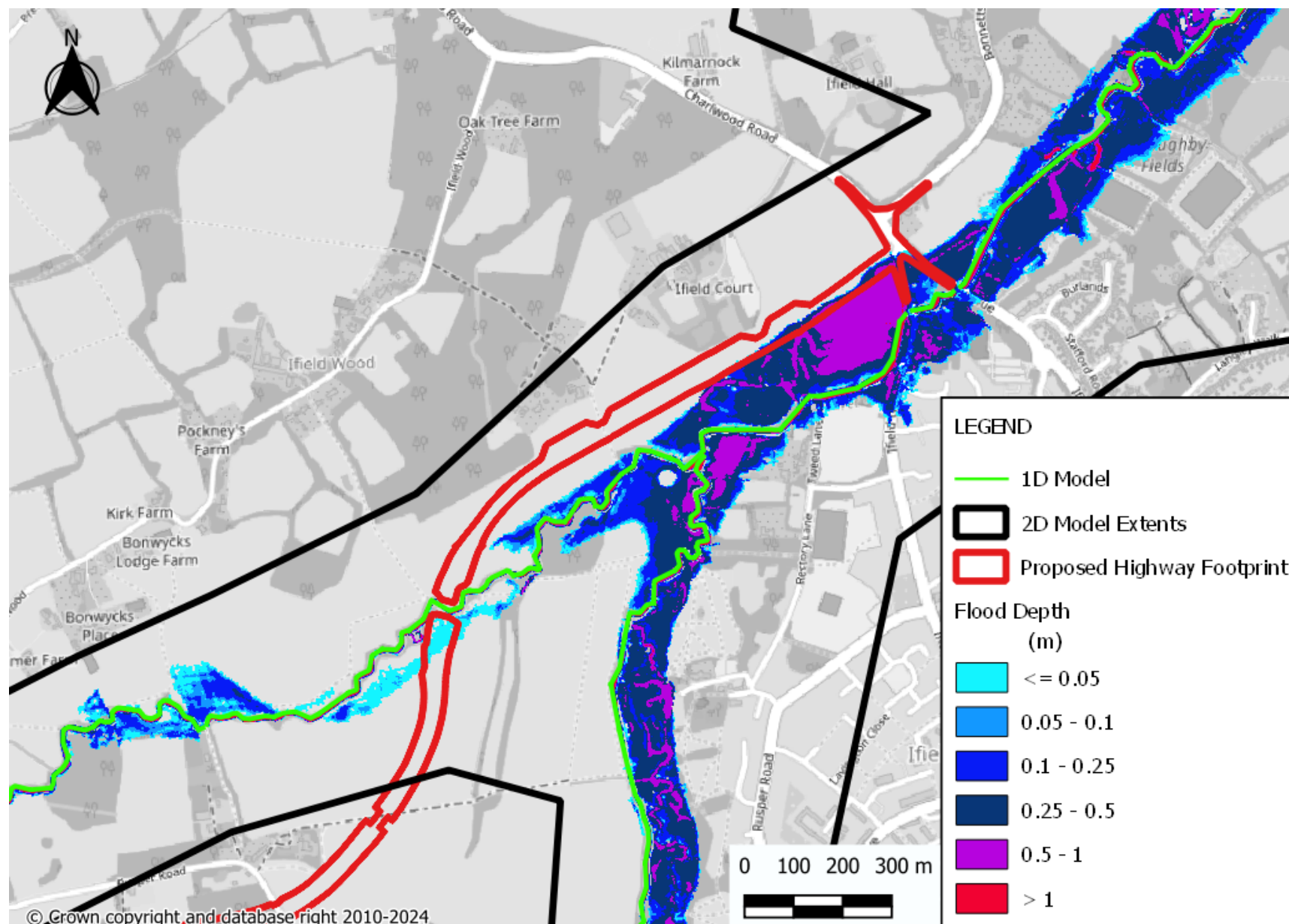
1 in 30 annual chance (12 hour storm)



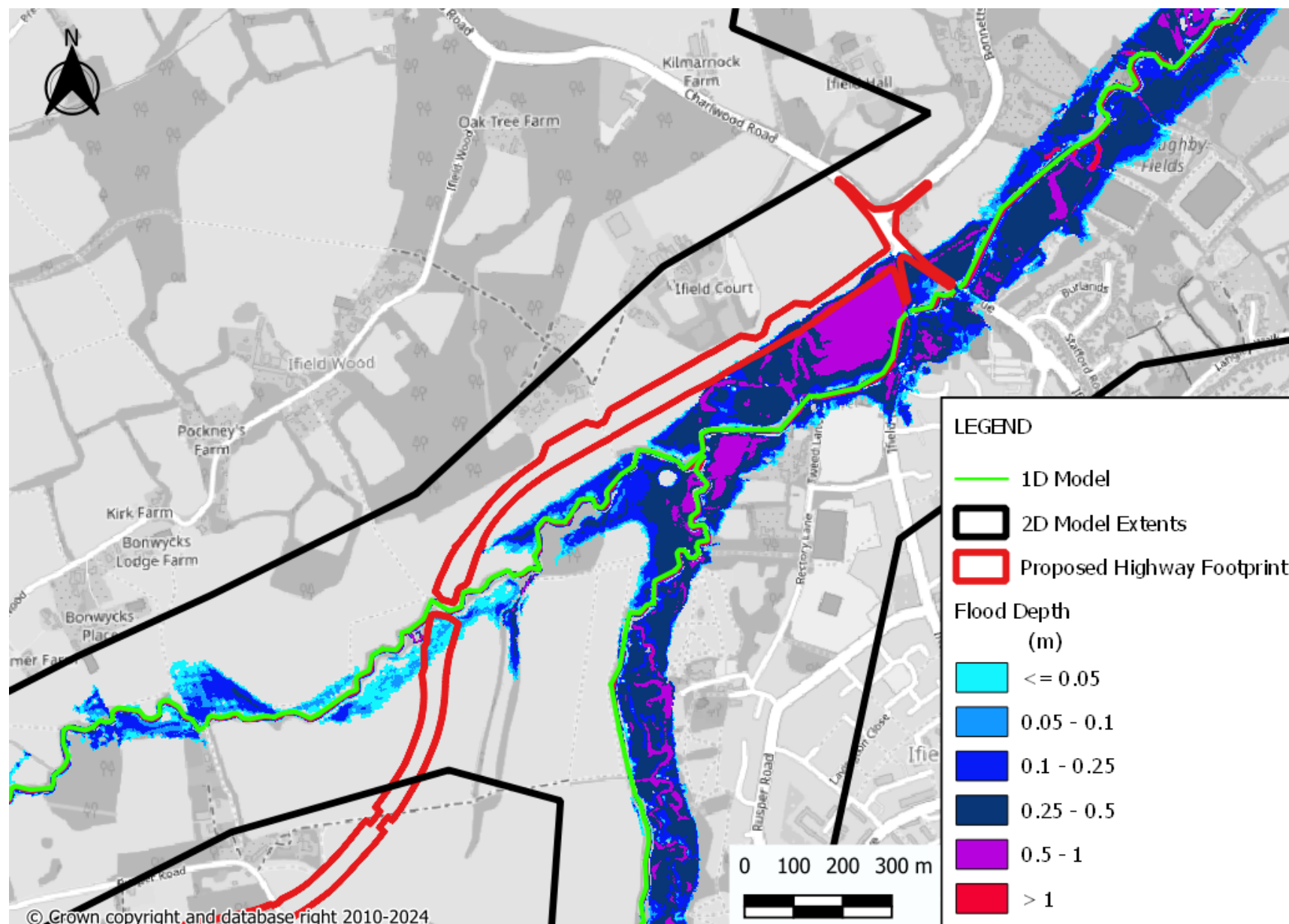
1 in 30 annual chance (24 hour storm)



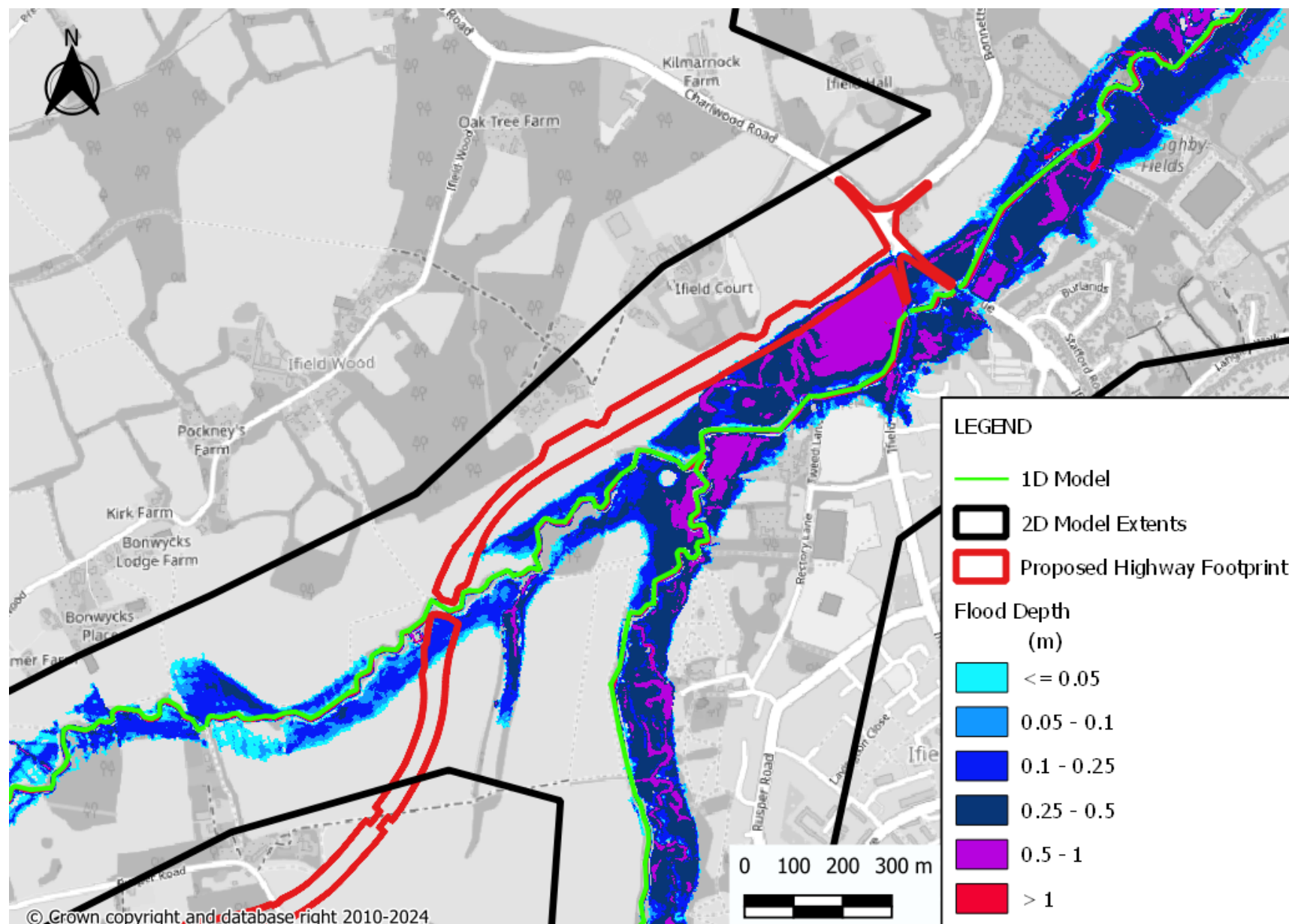
1 in 100 annual chance plus climate change 2080 epoch (12 hour storm)



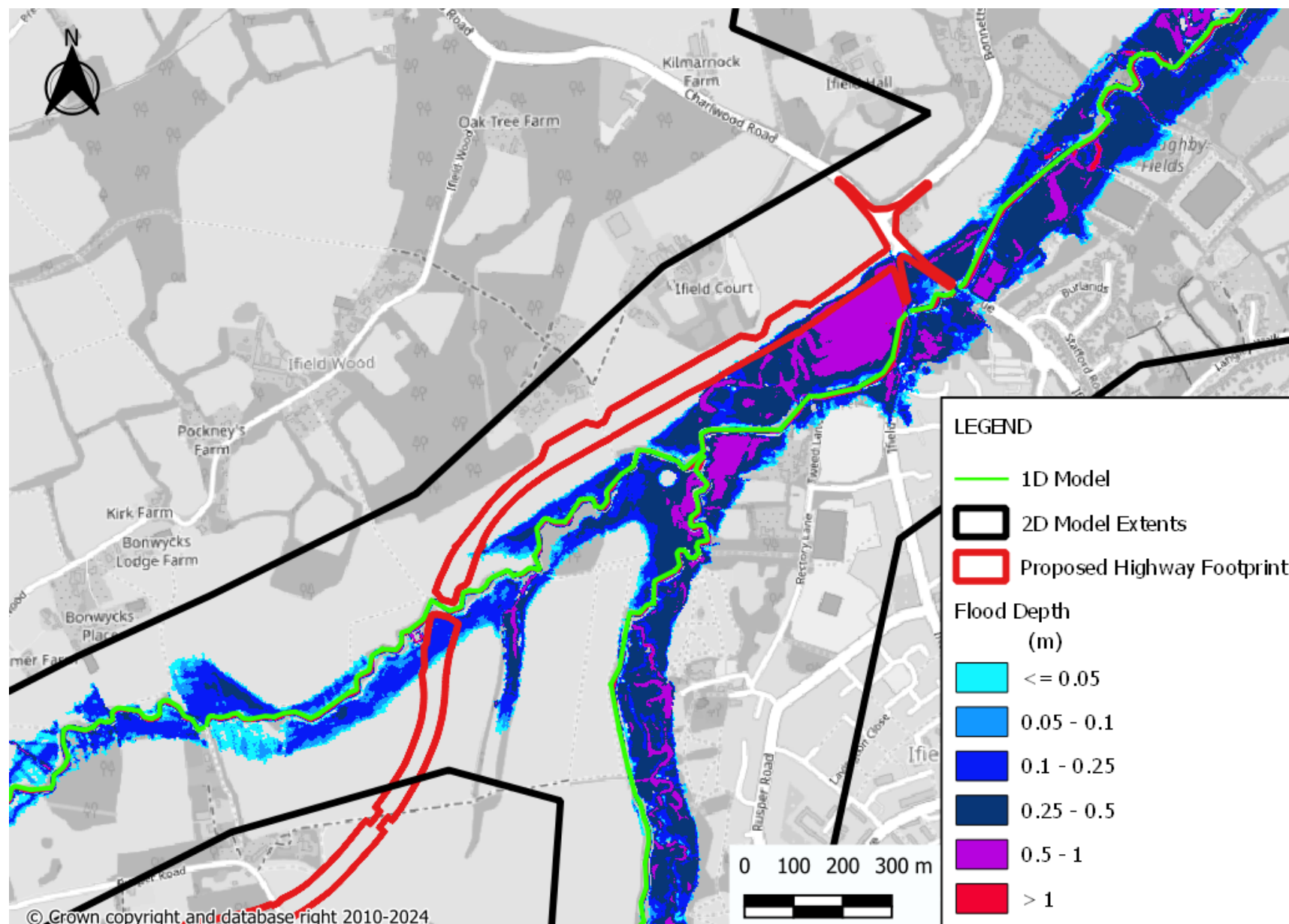
1 in 100 annual chance plus climate change 2080 epoch (24 hour storm)



1 in 1000 annual chance (12 hour storm)



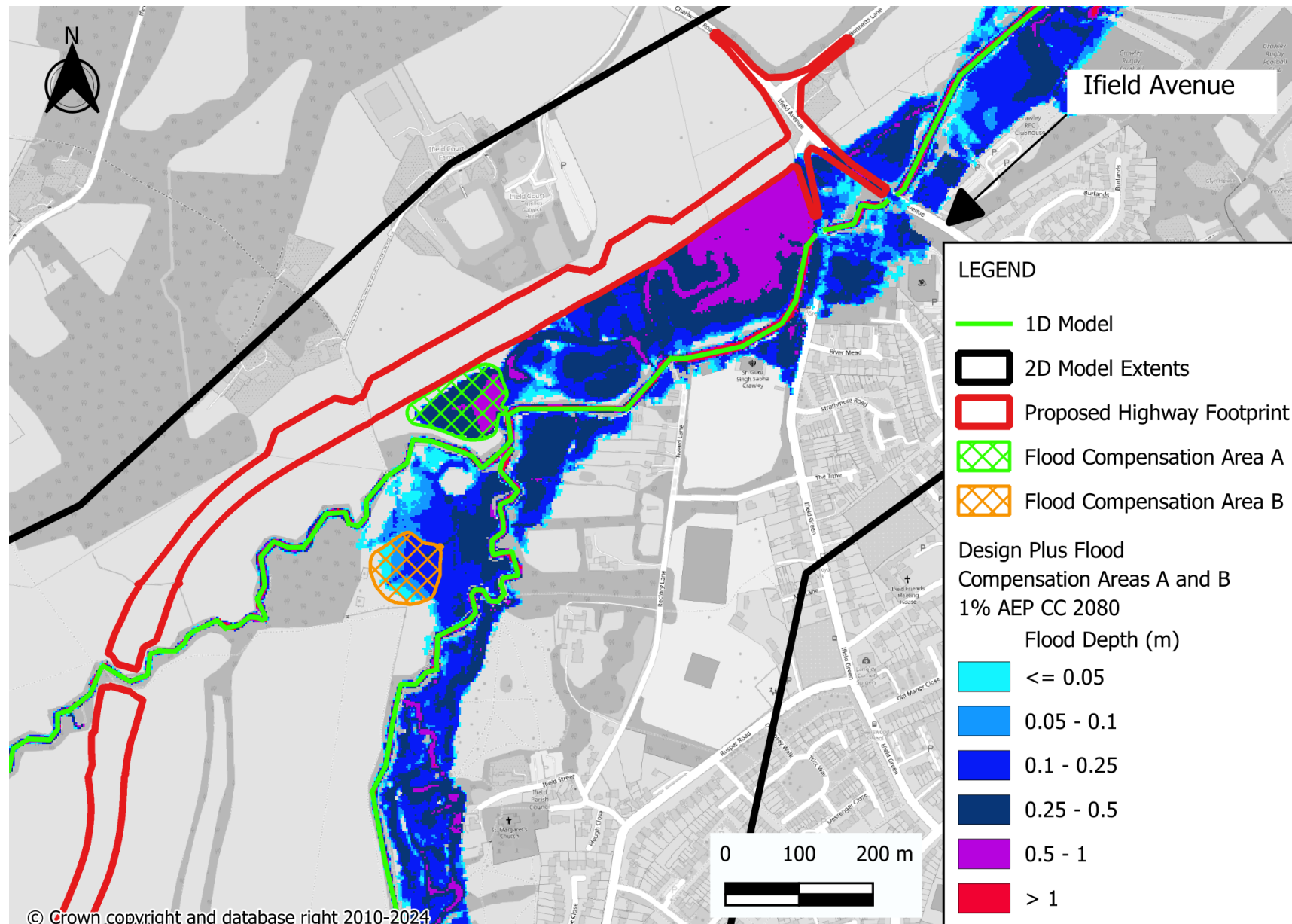
1 in 1000 annual chance (24 hour storm)



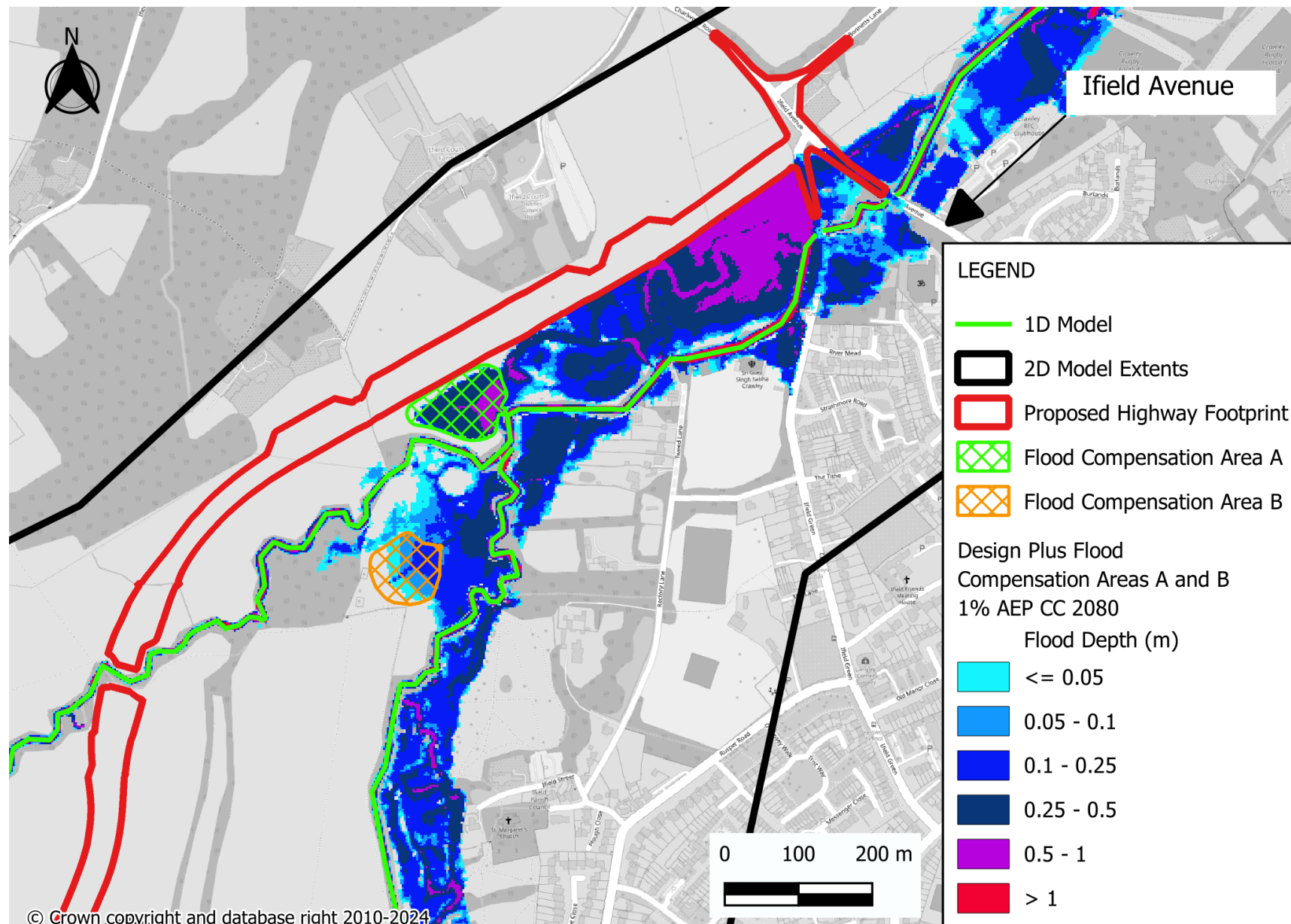
With Scheme – Proposed Highway including FCA A and B: Flood Extent and Depth

*Note that the flood extents for the with scheme, with scheme and FCA A and with scheme and FCA A and FCA B are very similar and the differences are virtually indistinguishable when mapped. Therefore, only the with scheme and FCA A and B maps are included.

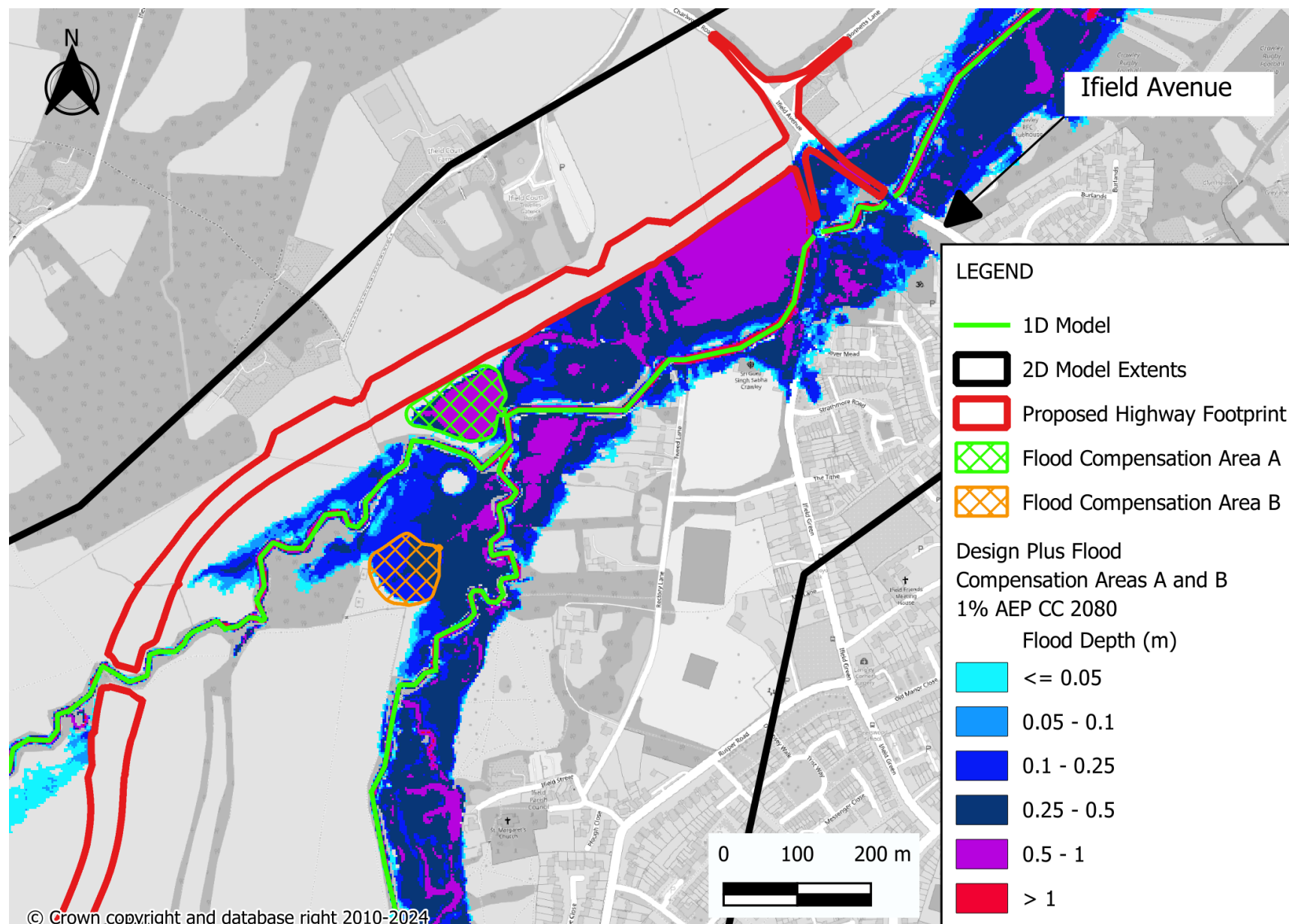
1 in 30 annual chance (12 hour storm)



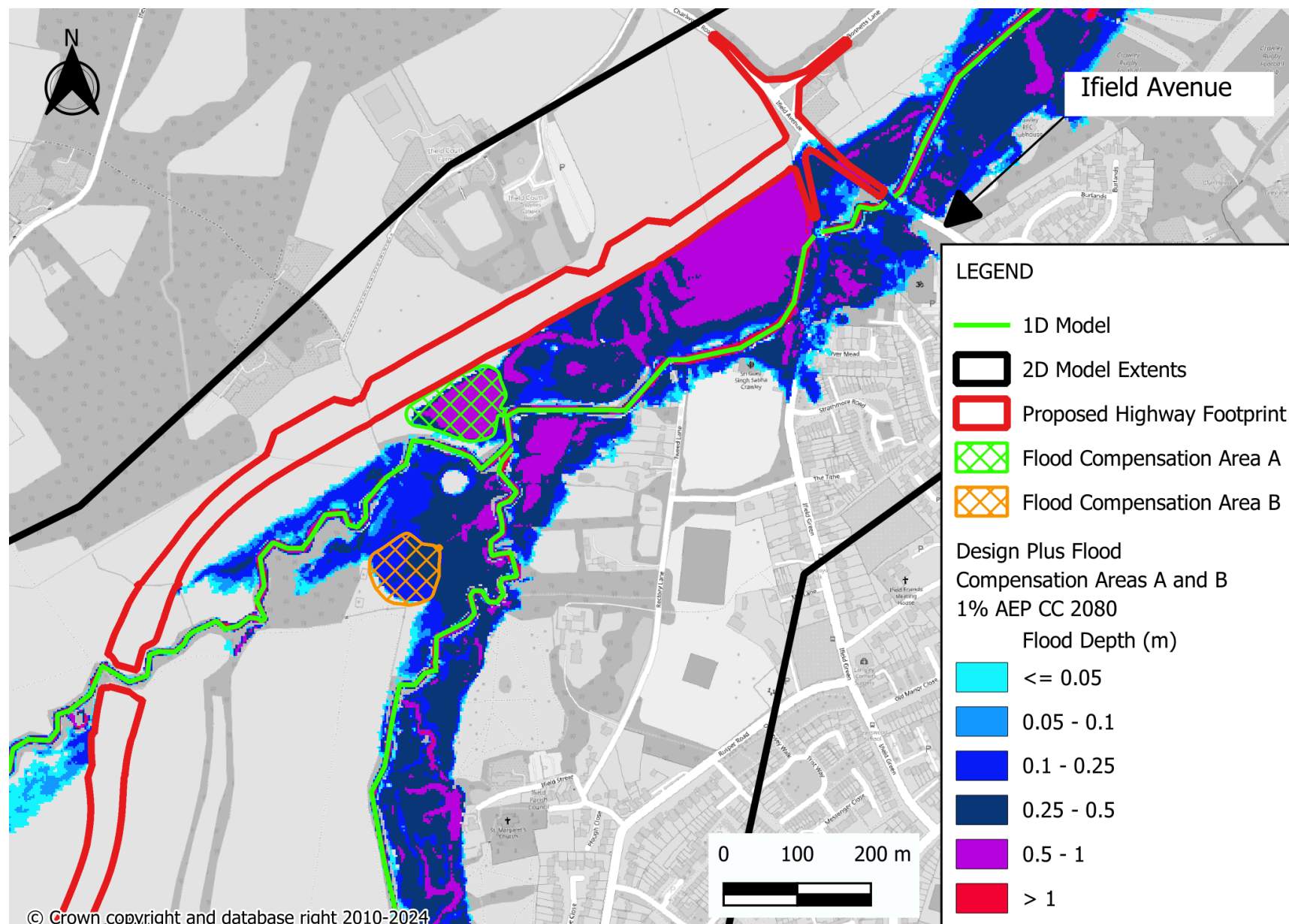
1 in 30 annual chance (24 hour storm)



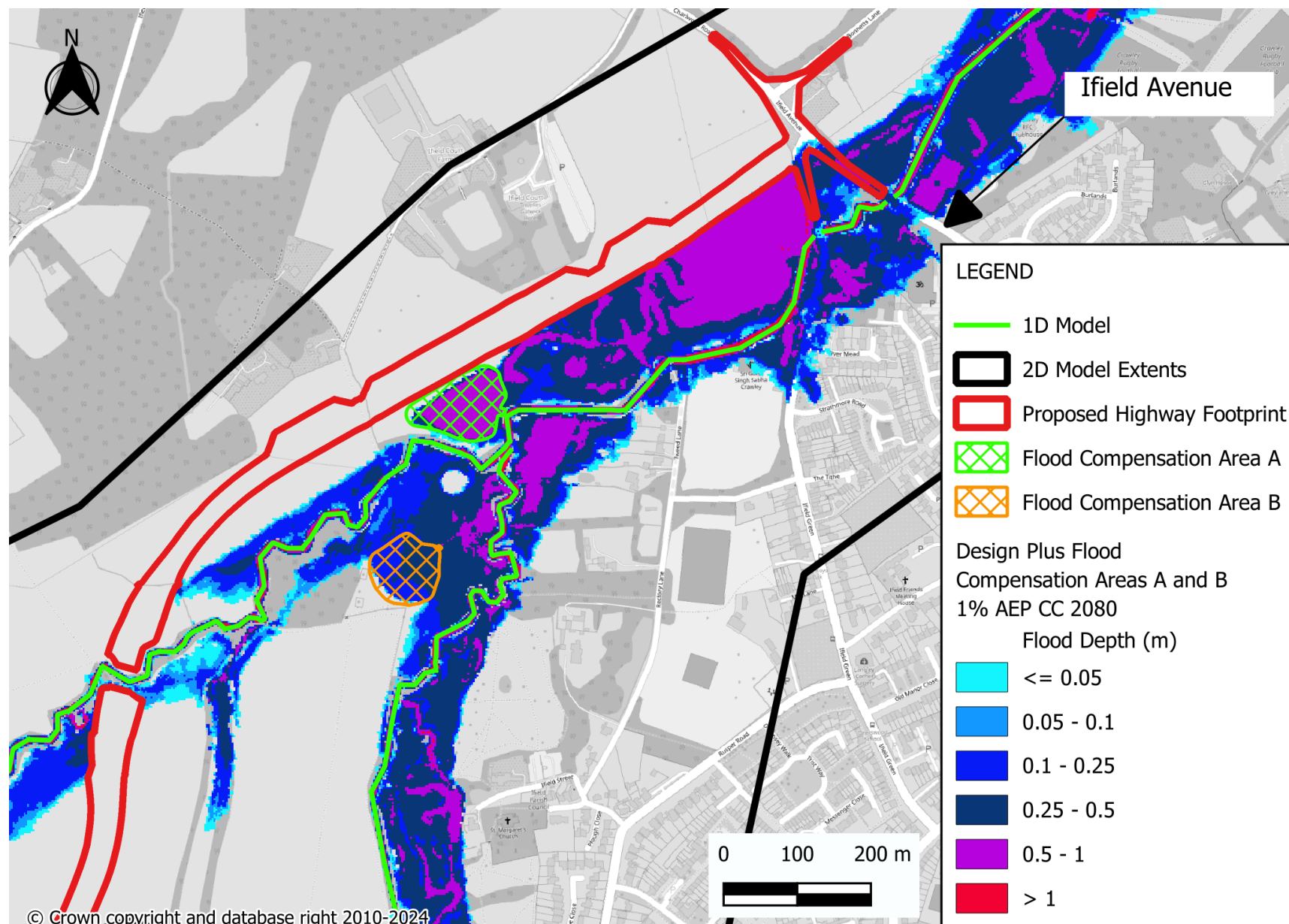
1 in 100 annual chance plus climate change 2080 epoch (12 hour storm)



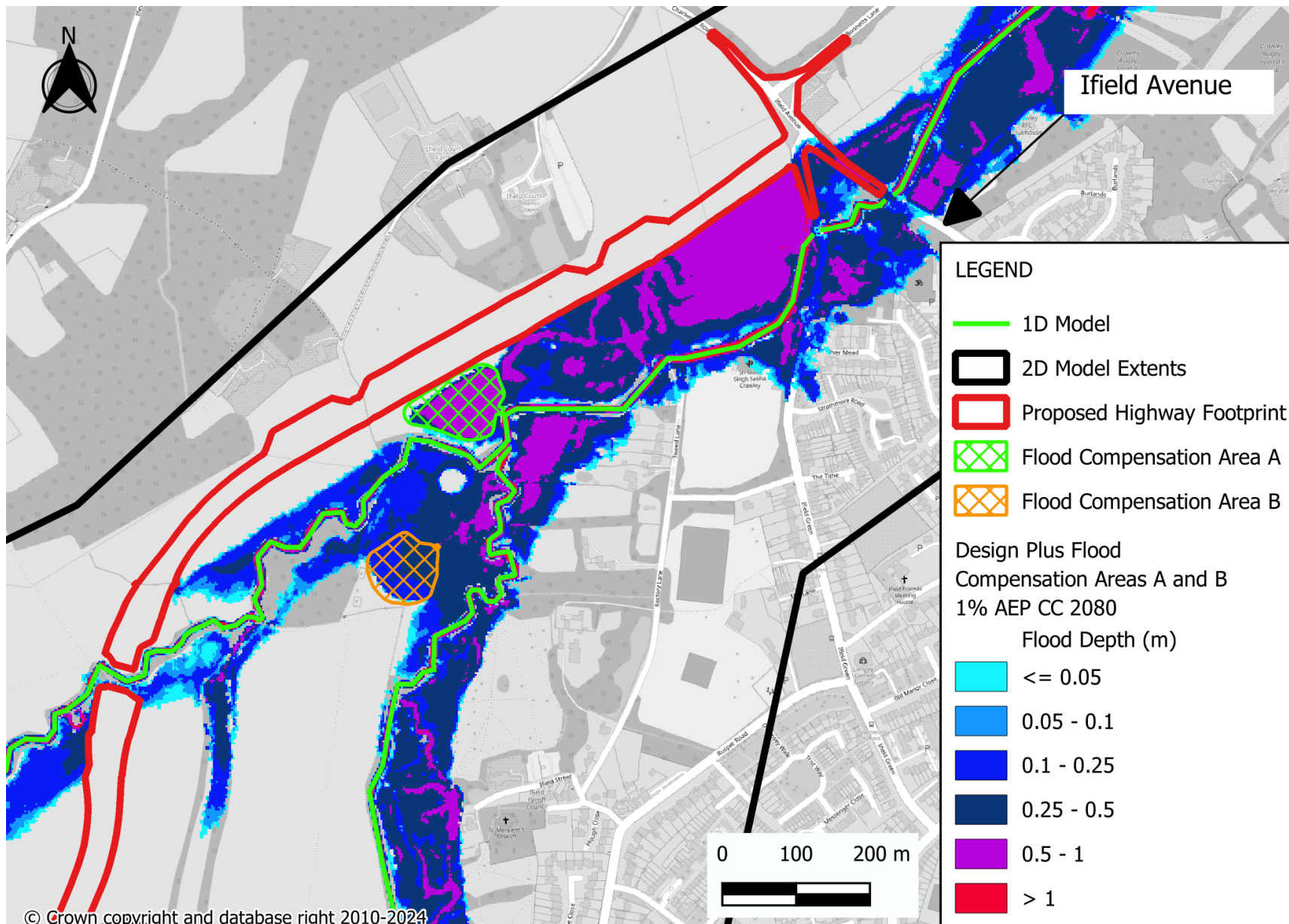
1 in 100 annual chance plus climate change 2080 epoch (24 hour storm)



1 in 1000 annual chance (12 hour storm)



1 in 1000 annual chance (24 hour storm)

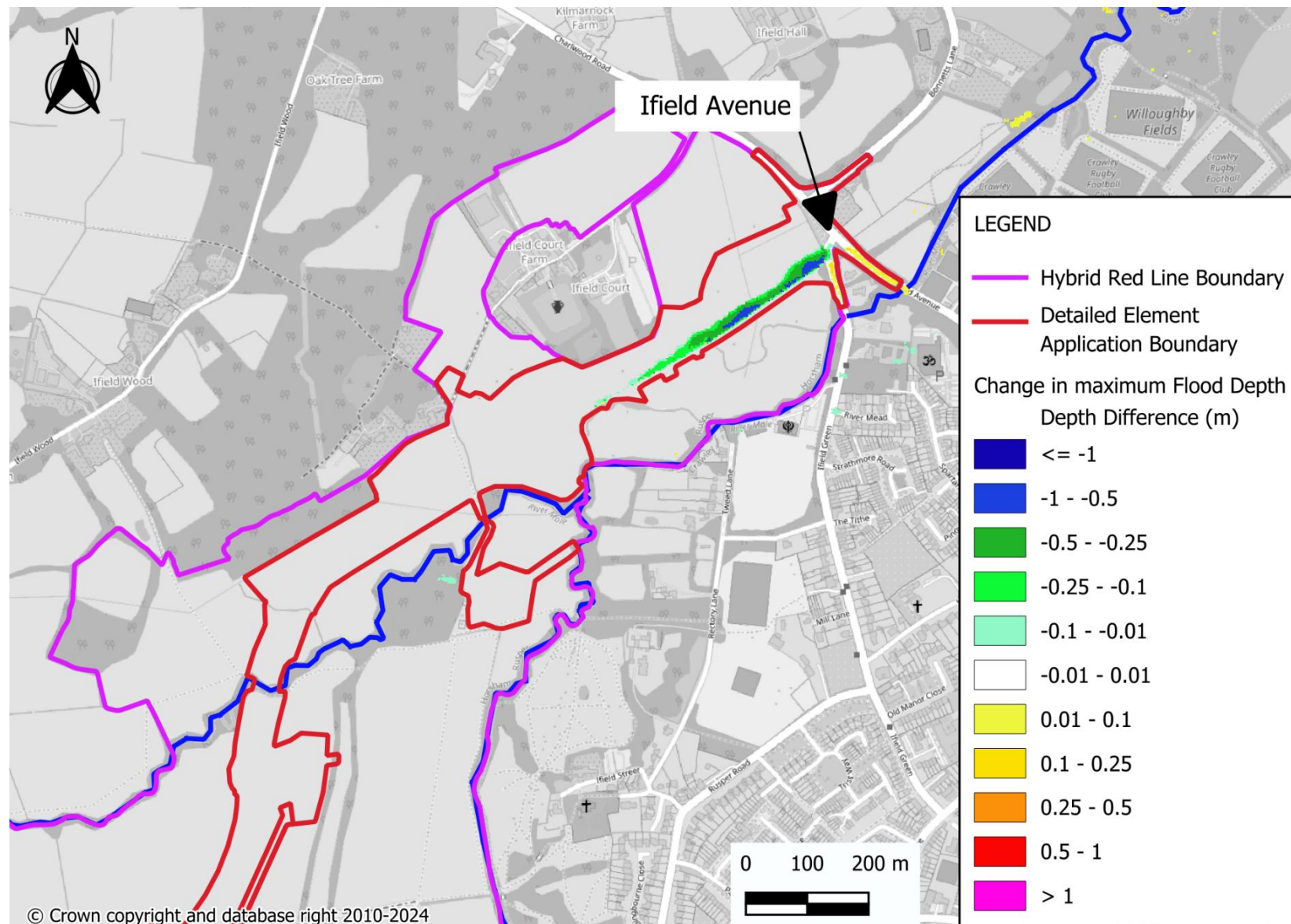


Flood Depth Difference Plots

Flood Depth Difference Plots

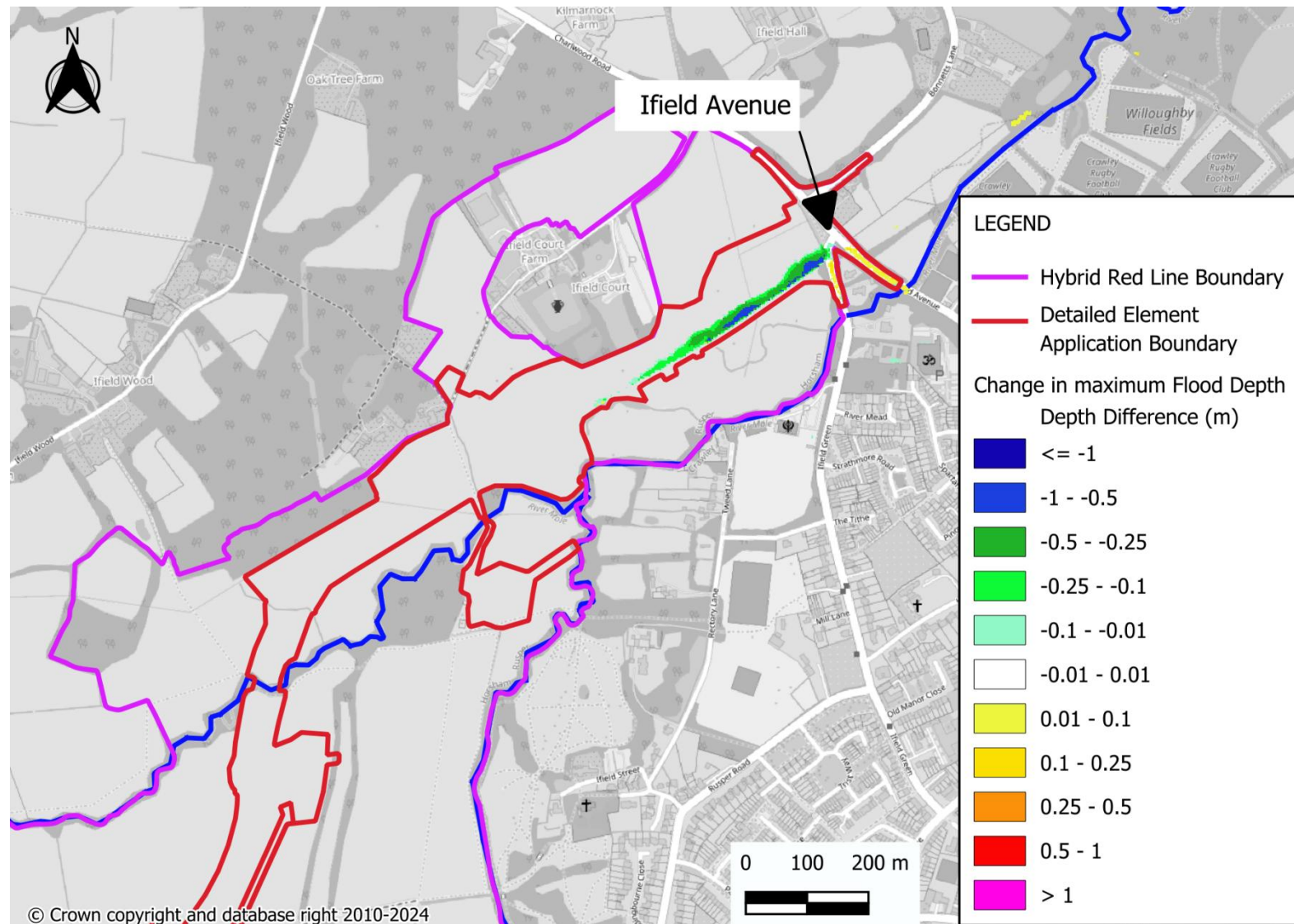
Flood Depth Difference Plots

With scheme peak flood depths minus baseline peak flood depths (1 in 30 annual chance 12 hour storm duration)



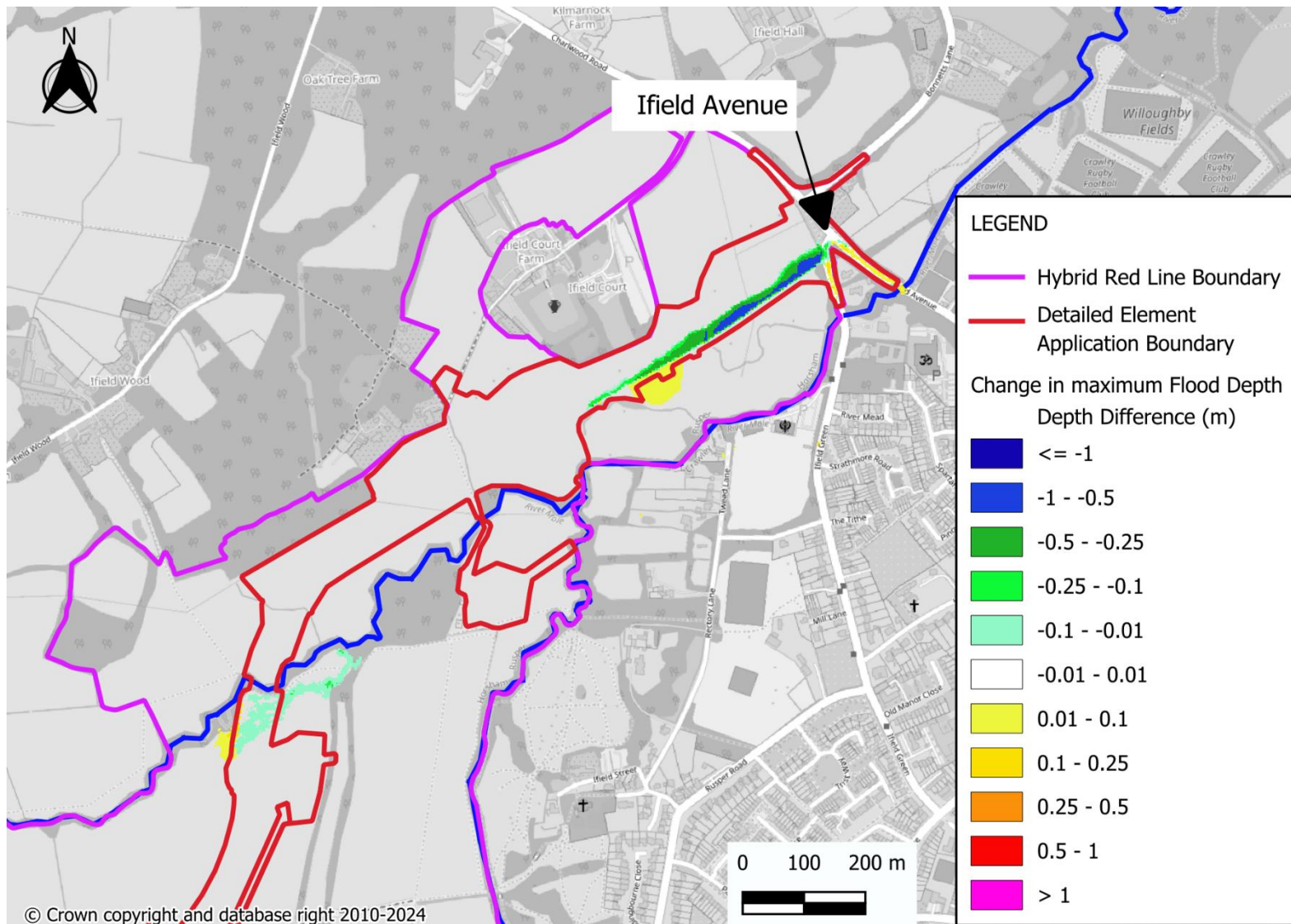
Flood Depth Difference Plots

With scheme peak flood depths minus baseline peak flood depths (1 in 30 annual chance 24 hour storm duration)



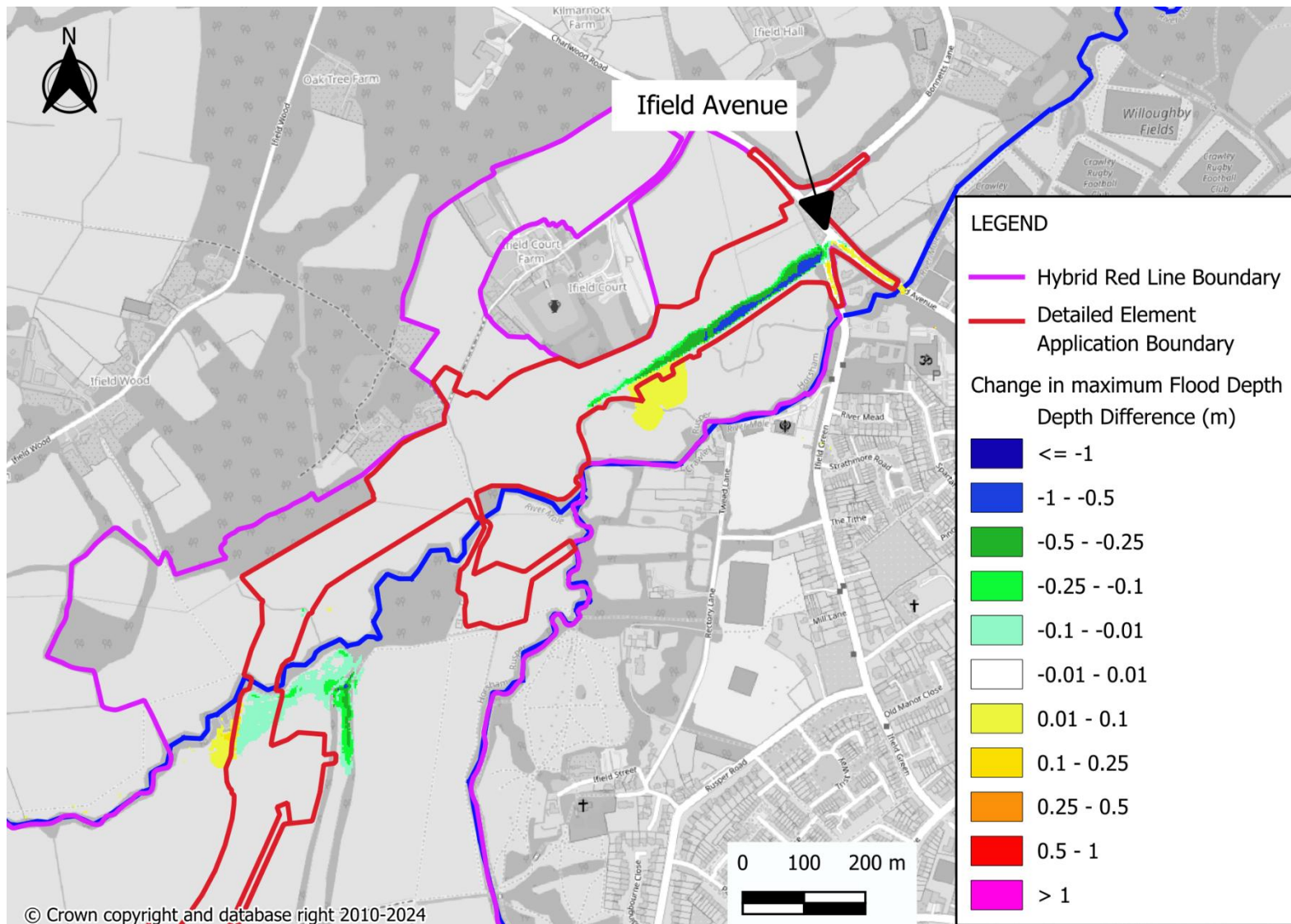
Flood Depth Difference Plots

With scheme peak flood depths minus baseline peak flood depths (1 in 100 annual chance plus climate change 12 hour storm duration)



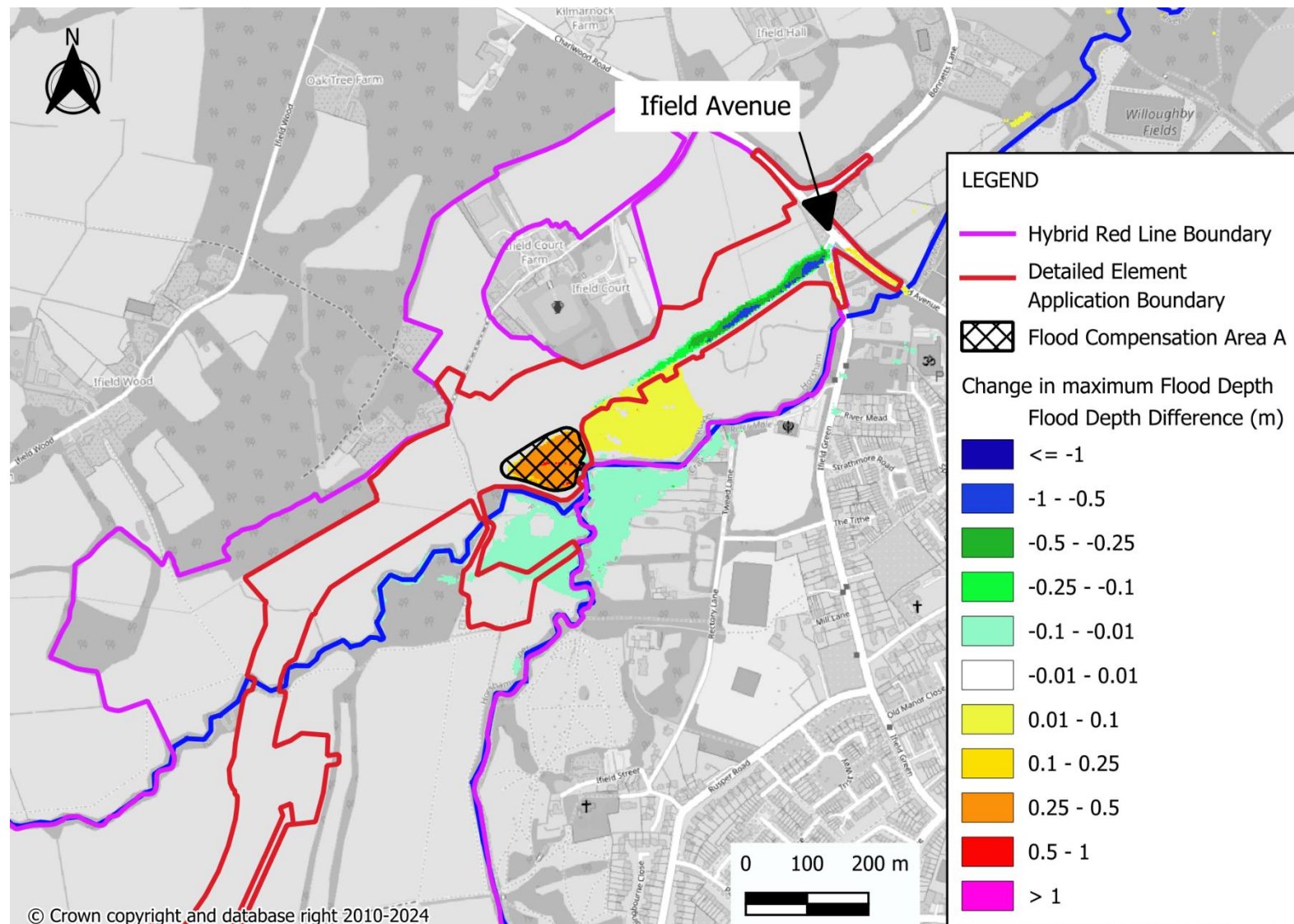
Flood Depth Difference Plots

With scheme peak flood depths minus baseline peak flood depths (1 in 100 annual chance plus climate change 24 hour storm duration)



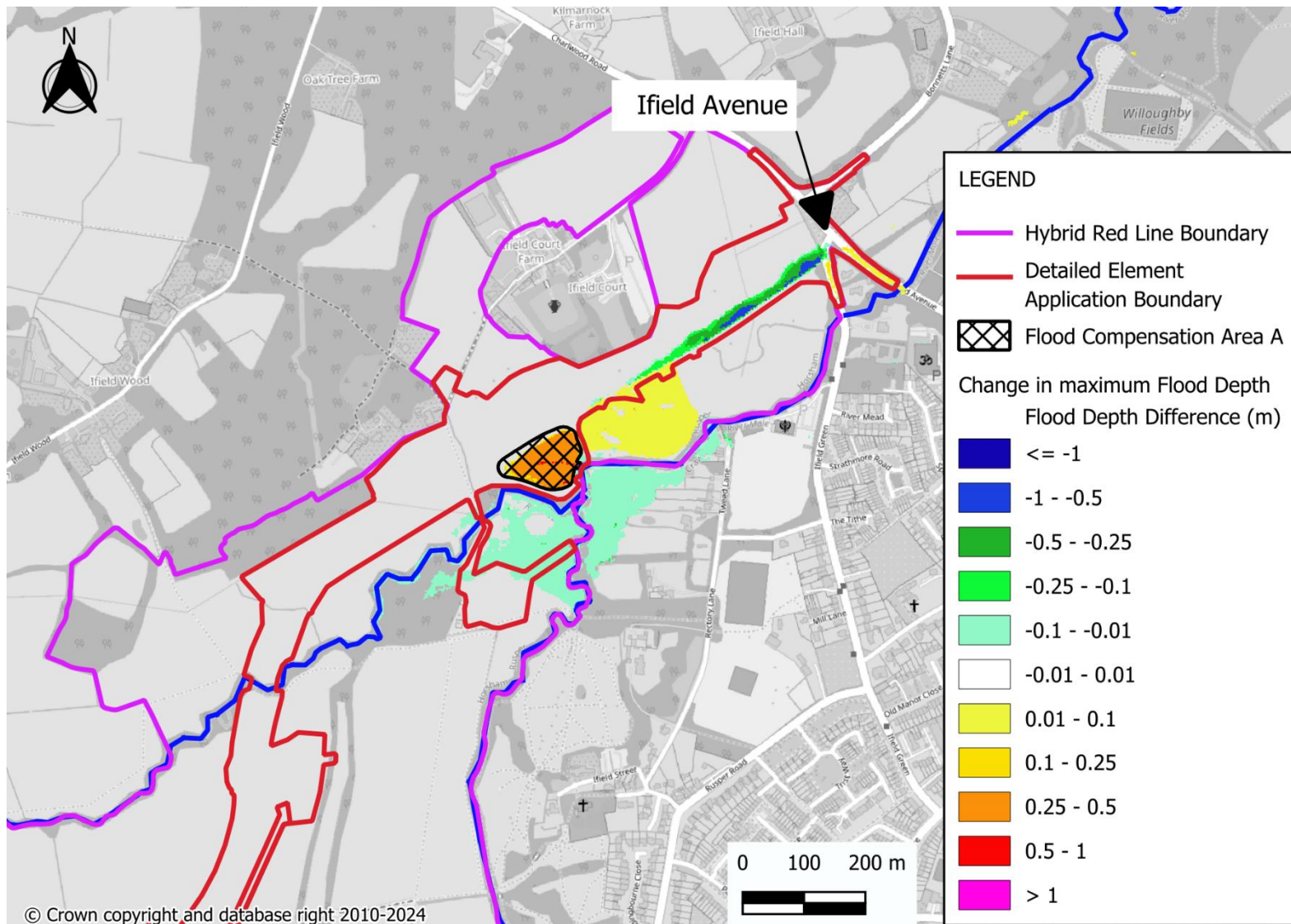
Flood Depth Difference Plots

With scheme and FCA A peak flood depths minus baseline peak flood depths (1 in 30 annual chance 12 hour storm duration)



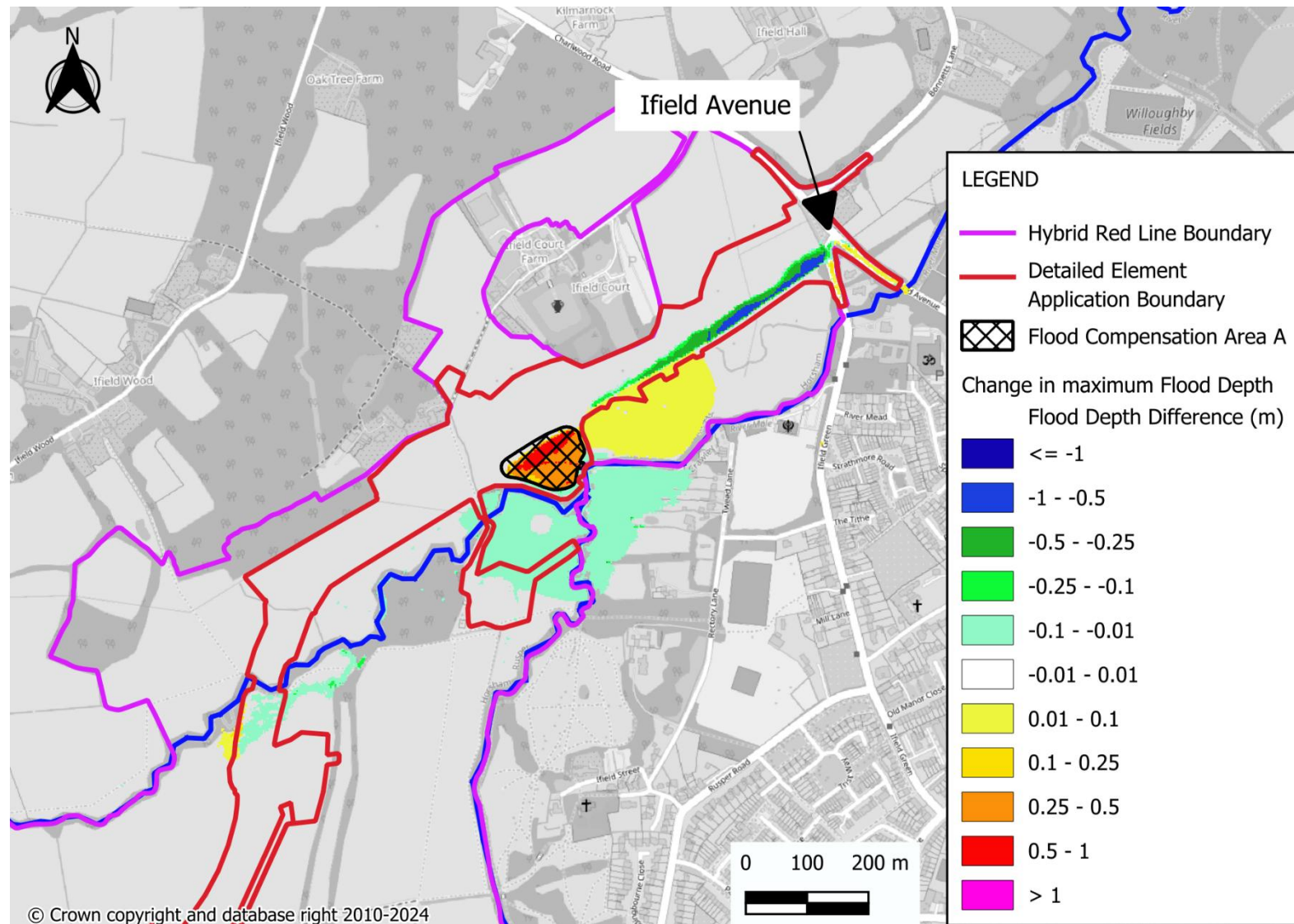
Flood Depth Difference Plots

With scheme and FCA A peak flood depths minus baseline peak flood depths (1 in 30 annual chance 24 hour storm duration)



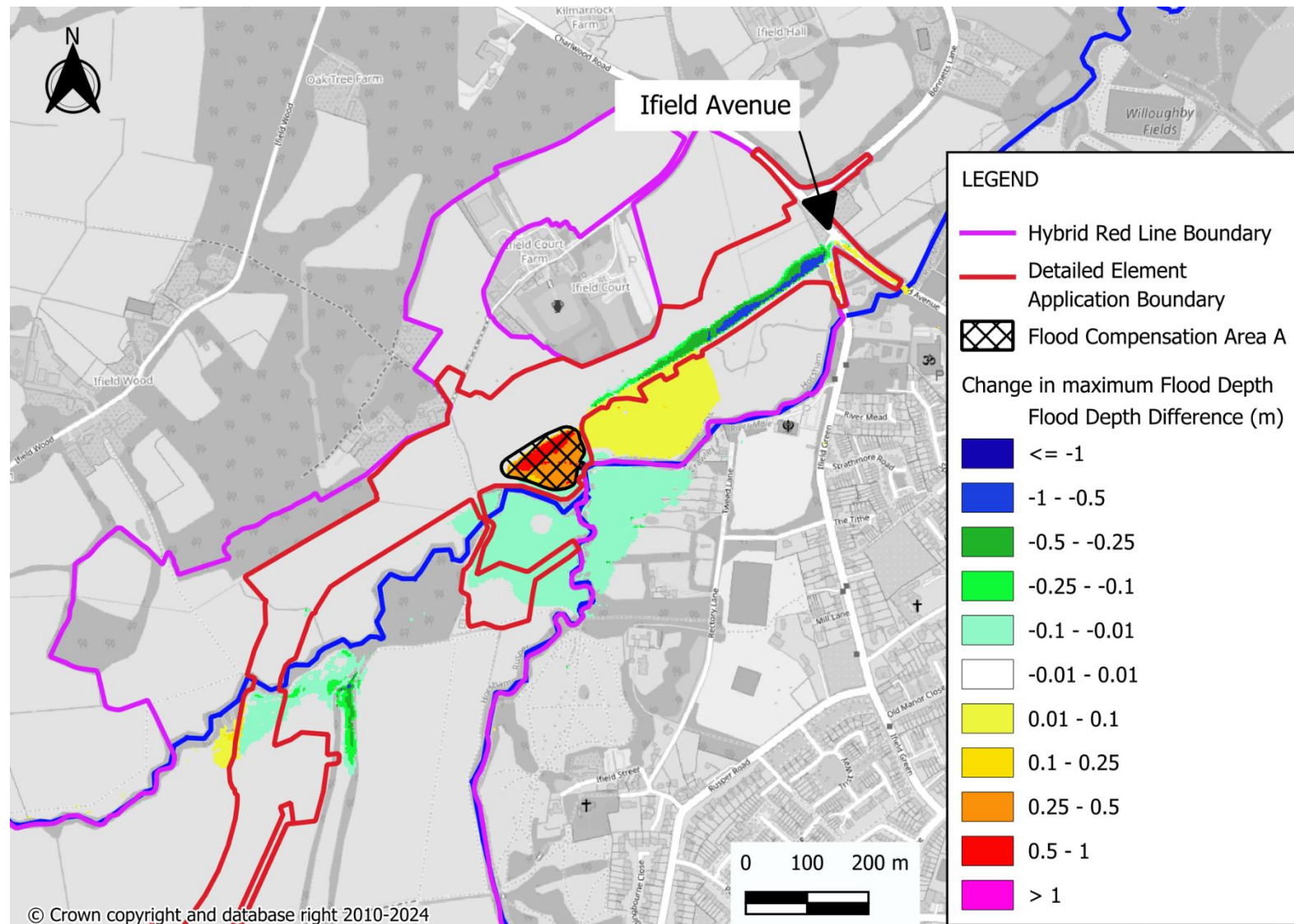
Flood Depth Difference Plots

With scheme and FCA A peak flood depths minus baseline peak flood depths (1 in 100 annual chance plus climate change 12 hour storm duration)



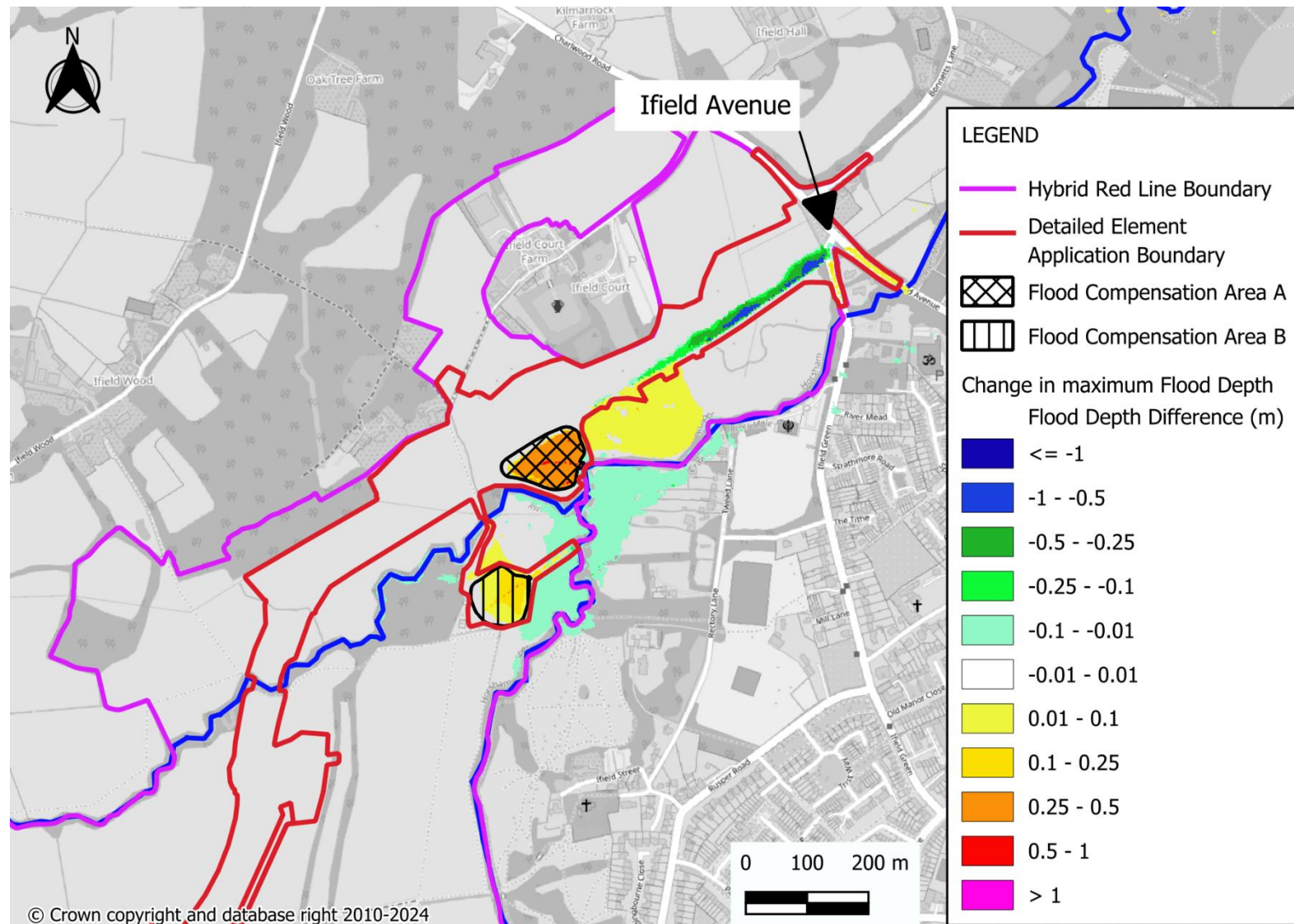
Flood Depth Difference Plots

With scheme and FCA A peak flood depths minus baseline peak flood depths (1 in 100 annual chance plus climate change 24 hour storm duration)



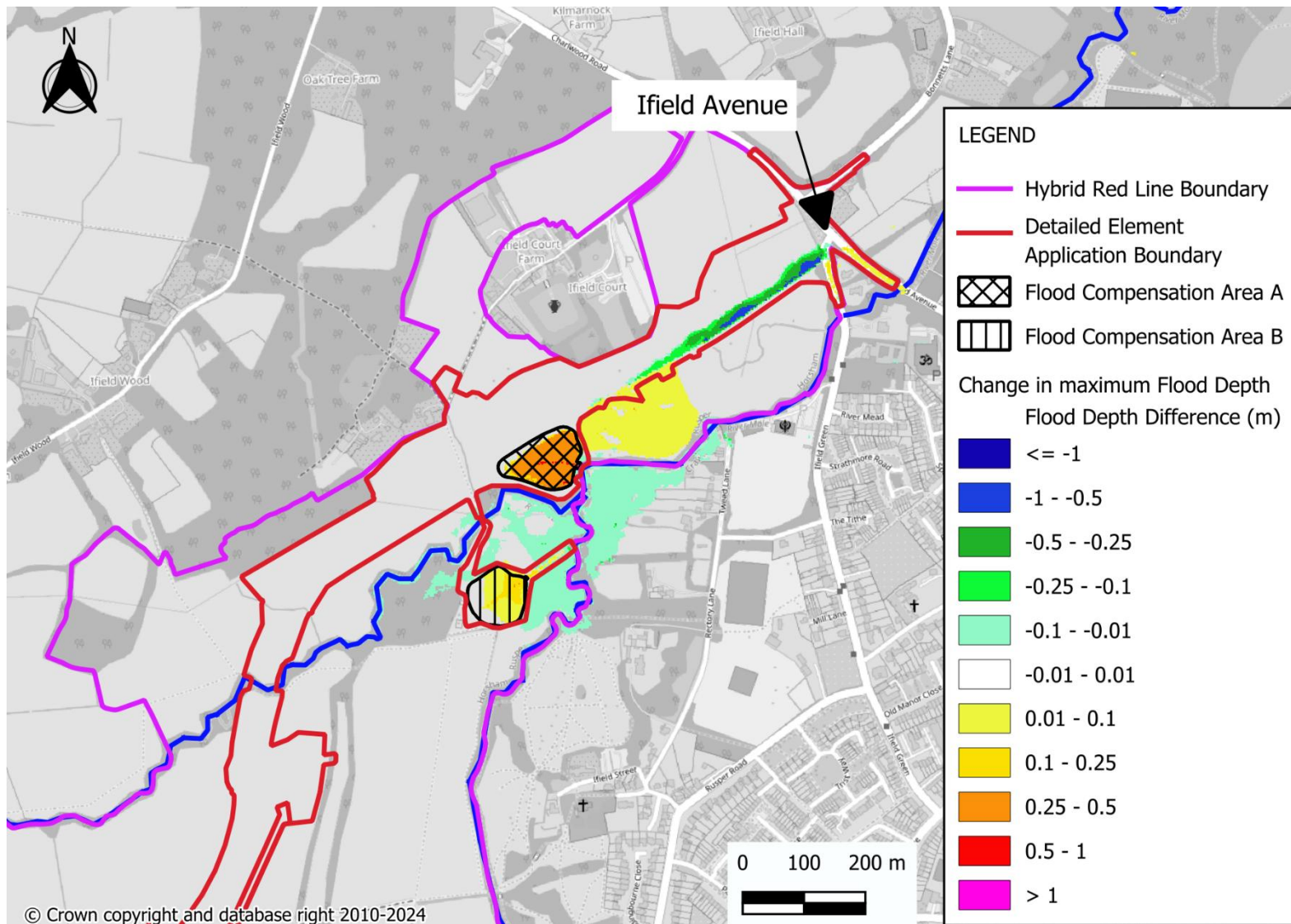
Flood Depth Difference Plots

With scheme and FCA's A & B peak flood depths minus baseline peak flood depths (1 in 30 annual chance 12 hour storm duration)



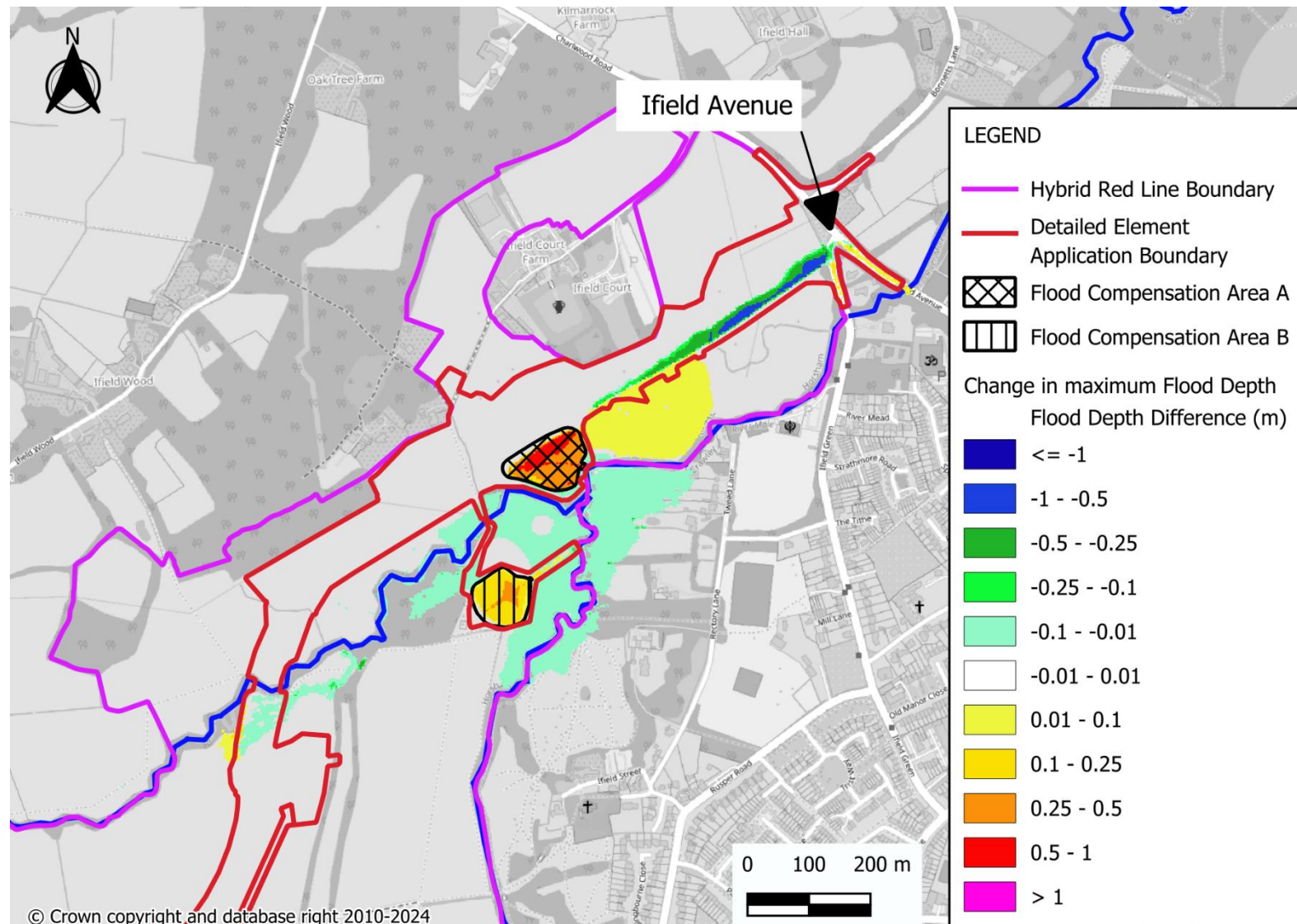
Flood Depth Difference Plots

With scheme and FCA's A & B peak flood depths minus baseline peak flood depths (1 in 30 annual chance 24 hour storm duration)



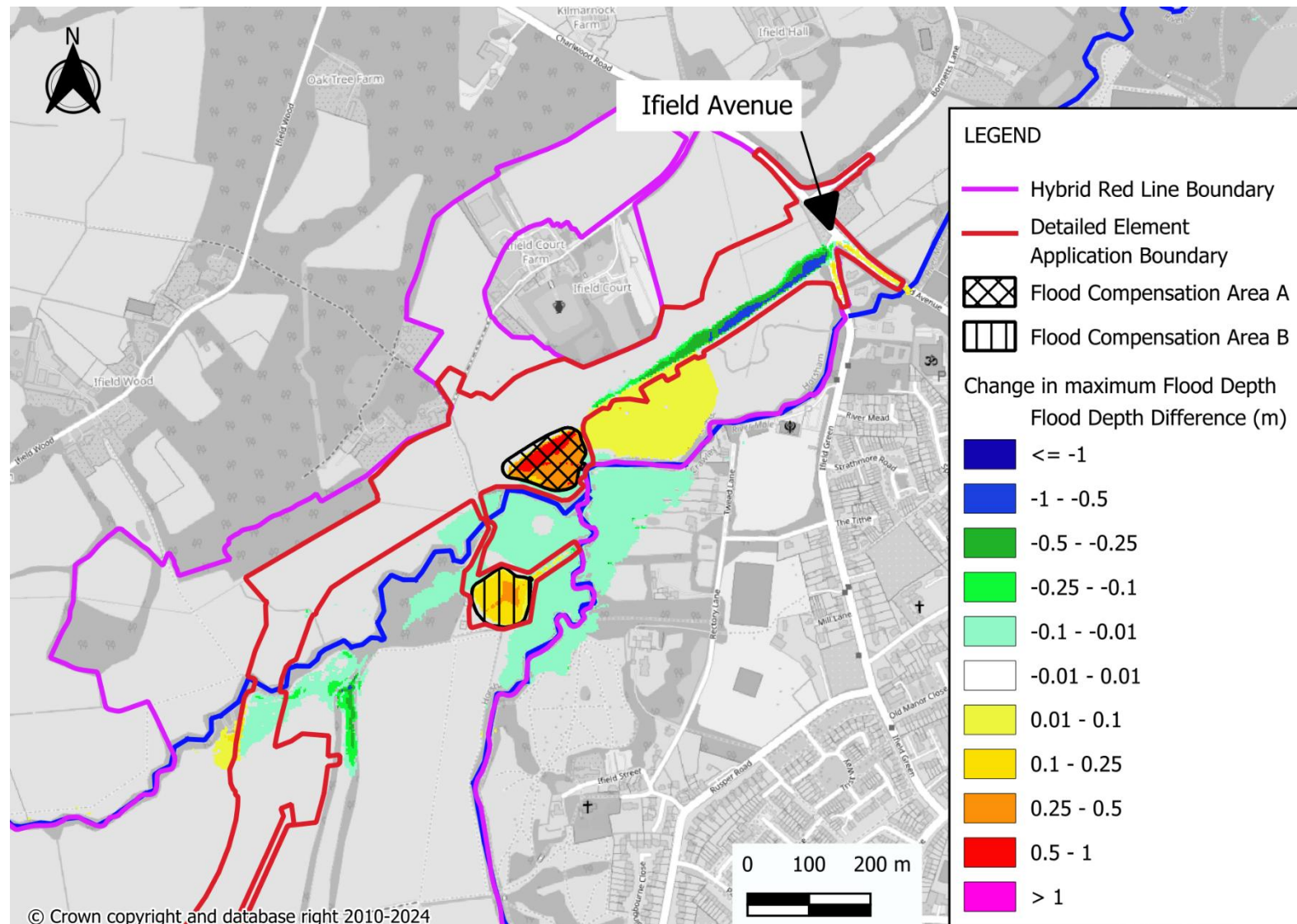
Flood Depth Difference Plots

With scheme and FCA's A & B peak flood depths minus baseline peak flood depths (1 in 100 annual chance plus climate change 12 hour storm duration)



Flood Depth Difference Plots

With scheme and FCA's A & B peak flood depths minus baseline peak flood depths (1 in 100 annual chance plus climate change 24 hour storm duration)



Annex 4

Environment Agency Correspondence

First Review Response


RE: EA Invoice - West of Ifield - PO uplift

[REDACTED]@environment-agency.gov.uk>

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Fri 15/11/2024 12:55

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208 KB

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[REDACTED]

Thank you for your email yesterday.

There has indeed been progress – please see comments below:

We have completed our review of the model and have determined the overall modelling approach for the proposed development is suitable. We have included a copy of the model review coversheet which sets out the elements of the model reviewed and any comments on those elements.

We appreciate the model for the proposed development is based on an Environment Agency model. You will note there are a number of points within the model review spreadsheet where comments have been made but are logged as 'green'. These points are considered to have a negligible impact on the model results, but we would ask these comments are acknowledged and the limitations section of the model reporting is updated to reflect these findings.

There is one comment related to the representation of 2D structures (point 10.1) which has been flagged as Amber. Would it be possible to provide supporting information, where available, in response to these points please to further justify the choice of approach to these elements within the model?

As mentioned above, we are aware this model is based on an Environment Agency model, but where updates have been made as part of the proposed scheme design, further information to underpin the modelling approach that has been applied would be appreciated.

If you have any queries regarding the above, please do not hesitate to contact me.

Kind regards,

[REDACTED]

Sustainable Places Technical Specialist | Solent & South Downs
Environment Agency | Oving Road, Chichester, West Sussex, PO20 2AG

Second Review Response

RE: WoI - EA Invoices

[REDACTED]@environment-agency.gov.uk>

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Mon 27/01/2025 15:14

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1 MB

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[REDACTED]

I hope you are well.

[REDACTED]

I have also received comments from the second review, which are attached. As before, the overall modelling approach for the proposed development is suitable. There are just a few minor queries as specified on the attached. Please let me know if you have any queries about this.

Thank you very much.

Kind regards,

[REDACTED]

Sustainable Places Technical Specialist | Solent & South Downs
Environment Agency | Oving Road, Chichester, West Sussex, PO20 2AG

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