

From: Smith, Nigel
Sent: 30 January 2012 14:18
To: Nigel Hale
Cc: Moss, Ken; Pam Walton
Subject: RE: PT11/3590/O Pickedmoor Brook

Nigel

The methodology and the output of the Thornbury JFLOW model is satisfactory to the EA. It is fit for the purpose of designating Flood Zones and provides a precautionary flood extent output for this catchment. If a developer wishes to challenge the flood extent of the Pickedmoor trib, at Hackett Lane then we would expect to see a detailed hydraulic model to be submitted for our approval. The modelling boundaries would need to extend down to the confluence with the main Pickedmoor Brook channel.

However, if the applicant has accepted the flood outlines shown in the SFRA but wishes to challenge the SFRA functional floodplain designation only i.e. believes it to be 3a rather than 3b, we suggest that the scope of the work could be reduced. The JFLOW model could be rerun with a revised flow. By subtracting the culvert capacity flow from the baseline flow (instead of the typical Qmed assumption) this may provide further clarity on the extent of 3a/3b at this location (assuming that there is no evidence of historical flooding here). SFRA flood zone challenges are led by the LPA but we are happy to assist you if required.

Either way, the above work would normally be undertaken by the developer, whose interest it is to investigate the site-specific detail.

If you could inform us the likely direction this enquiry that would be appreciated. If it is a SFRA flood zone challenge please can you forward on the culvert dimensions onto us (if and when you know them) so that we can consider advising about the revised flows in the model.

Have you considered my original email with respect to the further development sensitivity work on the Bristol Frome? As you know this work is becoming more urgent now so I would be grateful for a response.

Happy to discuss further.

Regards

Nigel

Nigel Smith
Development & Flood Risk Engineer
(Technical Specialist)
Wessex Area
Environment Agency