

Jon Stoddard

From: Williams, Sion M. <Sion.M.Williams@cyfoethnaturiolcymru.gov.uk>
Sent: 24 September 2024 08:41
To: Gethin Morgan
Cc: Natalie Haines; Marek Nekula; Jon Stoddard
Subject: RE: A494 River Dee Bridge Replacement - NRW Meeting 11/09/2024

Bore da Gethin,

In relation to the queries raised in the meeting on the 11/09/2024, please see below.

To confirm the current situation with regards to the existing model and known changes relevant to the Queensferry area:

- The most current version of the model is an amalgamation of 2 models, whilst dated 2020 – no updated hydrology was used in this model.
- A review of the hydrology used within the model should be undertaken to understand if there has been any significant change to predicted flows, with appropriate action taken if there has been a notable change.
- The All Wales LIDAR project has completed since the previous model was commissioned (available via DataMapWales). This should be considered to understand if there has been any significant changes to ground levels within the model domain that may impact on understanding of flood risk locally.
- [Climate change guidance for Risk Management Authorities](#) was updated by Welsh Government in August 2022. NRW are in the process of updating climate change allowances within the Tidal Dee model to reflect this guidance. This should be completed during September 2024. If outputs are required, then these will need to be obtained via our Data Distribution team.
- In addition, NRW are currently undertaking investigative, and maintenance, works along Broughton Brook, Pentre Drain N and S, Sandycroft Drain and Queensferry Drain. Whilst this work is intended to maintain the performance of the existing system, it may highlight defects, or propose upgrades, that may have associated impacts on the existing hydraulic model. We will not be able to confirm if these works will have any implications on our understanding of risk in the area until well into 2025. This could have implications for assumptions and representations of structures within the existing model that may require us to undertake updates but cannot confirm if this is the case at this time.

With regards to the proposed timeline presented last week, This may be ambitious and you will need to consider the following. For any additional data required from our data distribution team or DataMapWales, it may take up to 20 working days to supply data that is not available online. Any updated modelling will need to be reviewed, potentially by multiple teams within the organisation. This may be subject to a turnaround time of up to 4-6 weeks to review modelling outputs. This is dependent on the scale of model updates and team availability. You will appreciate that this work needs to be fit into an existing pipeline of work.

Kind regards,

Siôn M. Williams

Cynghorydd - Cynllunio Datblygu / Advisor - Development Planning

Gwasanaeth Cynghori Cynllunio Datblygu / Development Planning Advisory Service

Cyfoeth Naturiol Cymru / Natural Resources Wales

From: Gethin Morgan <Gethin.Morgan@mottmac.com>

Sent: Tuesday, September 17, 2024 3:58 PM

To: Williams, Sion M. <Sion.M.Williams@cyfoethnaturiolcymru.gov.uk>

Cc: Natalie Haines <natalie.haines@mottmac.com>; Marek Nekula <Marek.Nekula@mottmac.com>; Jon Stoddard

Rhybudd: Deilliodd yr e-bost hwn o'r tu allan i'r sefydliad. Peidiwch â chlicio dolenni, atodiadau agored nac sganio codau QR oni bai eich bod yn cydnabod yr anfonwr ac yn gwybod bod y cynnwys yn ddiogel.

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Hi Sion,

Following up on the meeting last Wednesday.

The key discussion points / actions we noted were:

1. NRW clarified model description terminology being used and what MM have been referring to a new model is not a new model but an amalgamation of previous models.
2. Health check needed on the model in consideration of point 1.
3. New LiDaR data available on DataMapWales, existing NRW model is based on older data from 2017.
4. The hydrological analysis – the climate change allowance will need to follow the latest guidelines.
5. The hydrological analysis – the suitability of the fluvial and tidal boundaries in the NRW model will be confirmed.
6. MM to finalise scoping report (in line with NRW guidance) and issue to NRW asap.
7. NRW to confirm upcoming studies that may impact on the modelling (between now and May-25).
8. MM to confirm outline schedule of future meetings and inputs.
9. Queries schedule - MM to prepare. Use of the same template.
10. Specific modelling questions to be added to the queries schedule.

I have attached the queries schedule referred to in items 9 and 10.

I would be grateful if you could liaise with the NRW team regarding item 7 and getting responses to the attached.

Many thanks,
Gethin

Gethin Morgan

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