

Arup Engineer answers to questions concerning their Survey on Flooding

Please see below answers to telephone questions posed to an Arup Engineer running the Hampton Bishop project by Parish Council Chairman Steve Hunt as requested by The Flood Mitigation Group.

Details will be discussed further at the Parish Council meeting to be held on Thursday 24th September at 7.30 pm in the village hall.

1. What are the terms of reference from the EA for the report?

Arup are looking at several options and causes of flooding:

1. Over topping
2. Raising flood bank to 1 in 200
3. Based on cost against benefits

i.e.

- The number of properties flooded
- Risk to life
- Business interruption
- Agricultural interruption

2. What is the Arup's methodology to deliver the terms of reference?

This report should be completed mid to end of October and it is then down to funding as to how we score with regards to cost over benefit and what grants are available.

3. What documents/reports are available to you to review and conduct your study?

Arup's study and report are based on their own survey, environment agency report, recent flooding information and the Lugg and Wye 2012 report.

4. How can we assist with your study (we have extensive local knowledge and information)?

This being an Environment Agency survey is mainly based on the two rivers, flood banks, drainage and flow riverside of flood defences however, I have offered to share our local knowledge, historical information, photographs etc. to assist in their report.

5. What are the flow rates for Hampton Bishop and the likely water load during a storm that causes surface flooding?

Arup are only looking at the Wye and Lugg overtopping, internal ditches and flow out will be looked at as a different and separate matter, however this has been raised as an issue.

6. What are your thoughts on the suitability of the existing drainage from the village through to and including the Mordiford flap?

This is being investigated as a separate issue and not being included within this report but again I have raised this as a major concern.

The below relevant thoughts could be held back and fed into the discussion when we know the answers to the above and the direction they appear to be going in

7. Have Arup examined the HCC's map and compared on site for accuracy against Hampton Bishop's ditches and culverts?

Arup have copies of HCC's map of ditches, however I have informed Arup that these are not up to date or complete and our drainage ditches need up to date mapping.

8. Is the stank that is 2' lower west of Daggie Powell's Lane suitable and sufficient for resilience against the existing climate change events?

Arup's report is looking at raising the Lugg flood stank from 1 in 25 to 1 in 100 and 1 in 200 but again this will be evaluated on the costs over benefits equation.

9. Are you evaluating pumping types and methods: wind, solar, battery combinations? Cost for electricity installation?

A pumping station will be considered but is highly unlikely again due to the cost over benefit equation.

10. What is the likely economic cost of disruption in closing the Mordiford road? Is this included in your evaluation of the cost benefit analysis due to surface flooding?

Once this report has been completed it will be sent for consideration and evaluation at high level with the Environment Agency. This again is based on cost to benefit ratio against other flood areas. They will then also look at possible grants and funding to help secure works if approved.

All detrimental costings such as road closures, loss of business, agricultural losses, damage to properties and risk to life will all be considered in this report once again based on cost to benefit ratio compared to other flood areas.

**Steve Hunt – Chairman of Hampton Bishop Parish Council
21st September 2020**

NB: I have also requested copies of the report for the Parish Council, if available.