



## Blythe Alive Again Flood Model: Tender Brief

### 1. Introduction

Warwickshire Wildlife Trust's Tame Valley Wetlands team are working closely with the Environment Agency, Severn Trent Water, farmers, landowners, and river users on the restoration of the River Blythe SSSI. The current project is referred to as Blythe Alive Again.

We are looking for a consultant who can carry out flood risk modelling to determine the impact on flood risk of proposed river restoration measures consisting of soft engineering works. These restoration measures include woody material, wet benches, berms, islands, shallow scrapes etc. The project is split into 10 strategic "Zones". The model is to cover the measures to be implemented in selected areas in Zones 3 to 10 over a 12km section of the river Blythe.

### 2. Spatial information

Location NGRs: SP 21216 91179 to SP 21509 81326.

Reach Length: 12km

### 3. Supporting documents

A document package consisting of project map detailing the 10 project zones, draft restoration plans for each zone, river level monitoring data, data from existing river level loggers installed by Warwickshire Wildlife Trust, and the River Blythe Restoration Plan report (completed by JBA Consulting in 2018) will be supplied to interested parties upon request.

We can also supply existing flood risk models and accompanying reports relating to previous projects in Zones 2 and 10 to the successful contractor. Zone 2 flood model included scrapes and soft engineering and closely resembles the measures we are proposing in Zones 3 to 10. Zone 10 model covers a fish easement option on an existing weir.

As far as we are aware, the Environment Agency does not have a hydraulic model (products 5 and 6) for the river Blythe.

### 4. Flood Risk model tasks

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- To create a baseline flood model(s) of the project area.
- To model the impact on flood risk of the soft engineering features put forward by Warwickshire Wildlife Trust.
- To ensure that the model results are in line with the Environment Agency requirements so that Warwickshire Wildlife Trust can apply for a Flood Risk Activity Permit (an additional model run for the 100 year return event plus 22% climate change scenario)
- To present initial findings to Warwickshire Wildlife Trust
- To alter the dimensions, location and or design of the soft engineering features if needed following the initial flood risk model results.
- To provide updated designs following the model results to present to stakeholders.
- To create a summary presentation of the model results to be shared with stakeholders by Warwickshire Wildlife Trust.
- To produce a report of the model results and proposed intervention to be shared with stakeholders and regulators by Warwickshire Wildlife Trust.

## 5. Outline of tasks

1. Use existing Lidar survey data of river and surrounding floodplain in zones 3, 4, 6, 7, 8, 9 and 10. There is good LIDAR coverage in the area. Detail of the LIDAR survey to be used to obtain levels for the model.
2. Set up and run a baseline model.
3. Model as per the high level diagrams of the proposed river features and scrapes detailing the flood risk within the zones.
4. Where appropriate and useful, utilise existing river levels data. There is one Environment Agency gauging station in the project area. Warwickshire Wildlife Trust has also installed several water level loggers (roughly 1 in each zone)
5. Attend a project kick off meeting with client.
6. Provide weekly progress updates and schedule approx. 4 online meetings at key milestones/when issues arise.
7. Consultant to spend up to two working days on site with Warwickshire Wildlife Trust Project Officer to become familiar with the project location.
8. Use supporting documents and data provided by Warwickshire Wildlife Trust to inform the modelling procedure.

## 6. Procurement Process

The contract is being tendered via Warwickshire Wildlife Trust.



All contractors seeking to tender may contact the Project Officer to seek clarification on any points within this Brief prior to submitting their tender.

Contractors must not directly discuss this project with any other member of staff from Warwickshire Wildlife Trust.

The successful contractor will be selected on the basis of best value for money.

Below is an indicative timetable for the appointment of the contractor and the completion of the works (please note that this may be subject to change):

Milestone	Date
Brief issued	24 February 2023
Deadline for submission of quotes / tenders	20 March 2023
Appointment of contractor	22 March 2023
Submission of documents including signed contracts	23 March 2023
Commencement of contract	24 March 2023
Completion of feasibility study	1 June 2023

## 7. Submission requirements

Contractors wishing to quote for this work are asked to provide the following as two separate documents:

- **Document A (quality assessment).** The format of this document is left to the discretion of the contractor but it should be no longer than 20 A4 pages and should include the following:
  - A description of the suggested approach to the works, highlighting key issues, proposed methodology and risks.
  - The roles and responsibilities of the contractor and the contractor team.
  - Mitigation measures to (i) reduce the risk of delays,
  - A breakdown of the programme of works – its key stages and an indicative timetable for completing the work (including the length of time the work is expected to take) and the earliest point at which this work could begin.
  - A statement on the relevance and skills of their organisation to the delivery of this work. To include evidence of previous experience of similar projects and CVs (if appropriate) of the key members of the contractor team.
  
- **Document B (price assessment).** The contractor must include a breakdown of all fees and costs, indicating the following in their response to the brief (and whether costs are including or excluding VAT):
  - Transportation and site visit costs

## Warwickshire Wildlife Trust

Brandon Marsh Nature Centre  
Brandon Lane, Coventry,  
CV3 3GW

☎ 024 7630 2912

✉ [enquiries@wkwat.org.uk](mailto:enquiries@wkwat.org.uk)



# Warwickshire Wildlife Trust

- Staff costs per staff member
- Project management costs
- Meeting costs
- Sundry costs
- Total cost (£ excluding VAT).
- Total cost (£ including VAT).

The submitted documents should be clearly identified as being either Document A or Document B. Document A should not contain any reference to fees or costs as the two elements Document A (quality) and Document B (price) will be assessed independently of each other.

**The tender documents should be submitted by noon on 20 March 2023 (via email).** No late submissions will be accepted.

### **Please submit your documents to:**

Warwickshire Wildlife Trust

Mobile: [07587550077](tel:07587550077)

Email: [andrew.apanasionok@wkwat.org.uk](mailto:andrew.apanasionok@wkwat.org.uk)

## **8. Assessment**

This contract will be awarded based on the price and the quality criteria i.e. over all best value for money.

Your sincerely,

**Andrew Apanasionok**  
**Senior Catchment Restoration Officer**  
Tame Valley Wetlands  
Warwickshire Wildlife Trust

t: 01675470917

m: 07587550077

[andrew.apanasionok@wkwat.org.uk](mailto:andrew.apanasionok@wkwat.org.uk)

### Chair

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[warwickshirewildlifetrust.org.uk](http://warwickshirewildlifetrust.org.uk)

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