

ITEM 11b

Somerset Rivers Authority Board Paper (for information)

Taunton Strategic Flood Alleviation Improvements Scheme (TSFAIS)

Purpose of the item

This paper summarises the current status of Phase 3 of the Taunton Strategic Flood Alleviation Improvements Scheme (TSFAIS).

Background and context

To protect existing property in Taunton and to allow the town to develop safely, a holistic and strategic solution is required. Somerset West and Taunton Council and the Environment Agency are working together to provide a long-term strategic solution that will reduce flood risk to Taunton and where possible to the wider catchment.

Phase 1: Studied flood risk and identified a combination of (i) improved flood defence walls in the town and (ii) an area for storing flood water upstream, to provide capacity for the long term (100 years). This solution required major engineering work to provide the desired level of protection. The capital cost and ongoing maintenance of this was upwards of £50million. This work was completed in 2014.

Phase 2: Provided a Project Delivery Plan (PDP) with phased local intervention solutions that provide a useful increase in flood capacity pending the longer-term delivery of the larger flood risk reductions flood water storage upstream identified in Phase 1. The local interventions are a combination of flood defences and storage which provide protection for:

- an extreme flood event today, where a significant amount of water enters the river system and would cause severe flooding, this is called 1% AEP or a 1 in 100 years flood event and has a 1% chance of occurring in any one year;
- significant changes in water levels as a result of medium-term climate change; that could see that peak flows in the river increased by 20% on the extreme flood event we would experience today; and
- significant changes in water levels as a result of long-term climate change, that could see peak flows in the river increased by 30% on the extreme flood event we would experience today.

They also have:

- no significant impact to third parties, including Levels and Moors;
- recommended timing of delivery or “triggers” for delivery (short, medium or long term);

- established benefits of the components, individually and together;
- estimated costs (capital and full life) and possible funding sources;
- potential alignment with other programmes/development.

This work was undertaken between July 2016 and August 2019.

The Phase 2 deliverables were discussed with the SRA Technical Group in August 2019 and duly shared with the SRA Board in January 2020. Board members endorsed the TSFAIS recommended strategic and long-term approach to the management of flood risk in Taunton and confirmed their ongoing support of the project and its wider objectives.

Somerset West And Taunton Full Council on 26 February 2020 endorsed:

- the strategic and long-term approach set out in the Phase 2 works;
- continued partnership working with the Environment Agency to detail and deliver the TSFAIS short term measures;
- £6million capital funding and dedicated project management capacity to support next steps; and
- development of a future funding strategy.

Current status and next steps

Somerset West and Taunton Council in partnership with the Environment Agency is progressing three of the short-term measures identified in Phase 2:

- River Tone Left Bank Flood Defences – a combination of repair, replacement or new flood defences between Frieze Hill and Town Bridge to provide reduced flood risk to key transport routes including the A3027 bridge street, A3027 Staplegrove road and the A3087 station road, and the North Town and Firepool areas of Taunton;
- Firepool Lockgate and associated bund between the River Tone and Bridgwater to Taunton Canal – raising levels of the lockgates and the area around them in conjunction with creating an earthen bund defence between the canal and the river from Firepool to Obridge which will prevent flows entering the canal. This provides reduced flood risk for Priorswood and Crown Industrial Estates and Bathpool;
- Longrun Meadow flood attenuation improvements - optimisation of the existing flood storage area at Longrun Meadow through new embankments, inlet and outlet to remove excess water from the river and control when the water is put back into the river. This reduces flood risk in Taunton town centre and further

downstream including areas of North Town, Firepool, Priorswood and Crown industrial estates, Bathpool and benefits tributary flows, reducing flood risk in the Tangier area.

These measures are collectively known as Phase 3.

The TSFAIS programme has a high profile within Somerset West and Taunton Council and sits within the External Operations Directorate and the SWT Carbon Neutrality and Climate Resilience work stream.

A Collaborative Agreement between SWT and the EA for the River Tone Left Bank Flood Defences will be signed later this year, and a Project Brief for this scheme is being jointly progressed with a view to letting a contract via the Environment Agency's supplier framework by the end of 2020.

Project managers have been appointed to progress the Firepool Lockgate scheme which will be led by Somerset West and Taunton Council with Environment Agency support.

The Longrun Meadow Optimisation scheme will be the third project to progress and project managers will be appointed in due course. This scheme will be led by Somerset West and Taunton Council with Environment Agency support.

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