

Board 20: Short-List Options – Reprofile Land Around Pumping Station

Introduction

The pumping station on the east side of the river presents a barrier to flow over part of the floodplain.

Further investigation has shown pumping station is situated on flood plain, causing a barrier to flows.

Option Discussion

Stakeholder option discussion points:

Advantages of Option

- Mitigation of the presence of pumping station without having to remove it

Disadvantages of Option

- Removal of areas associated with pumping station not possible

Other Points Raised

- Must tie-in with new Sparling Bridge at this location

Impact on Flood Risk

- Up to 2 receptors brought out risk at the 1:200 year storm
- BCR of 1.48 found

Option Conclusion

Stakeholder option decision:

- Option partly progressed to outline design - smaller area
- Can be designed to enhance the option increasing flow area beneath A75 bridge
- Increases flow on floodplain opposite to areas of current high flood risk
- Can mitigate water level rise from construction of direct defences



Figure 20-1: Pumping Station

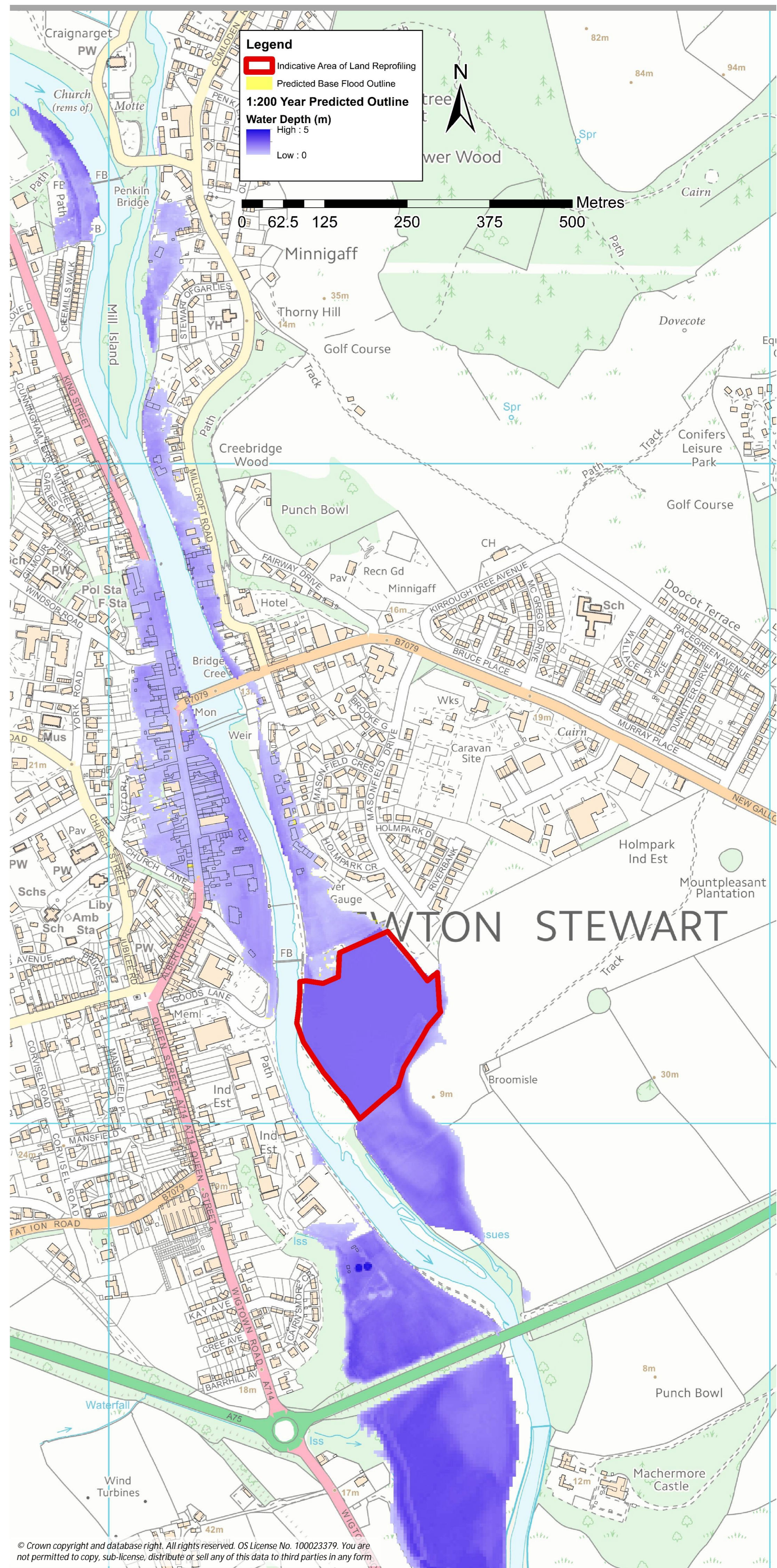


Figure 20-2: 1:200 Year Predicted Flood Outline – Reprofile Land Around Pumping Station