Newton Stewart
FLOOD PROTECTION SCHEME

15

Board 15: Short-List Options – Increase A75 Flood Relief Culvert Capacity

Introduction

In previous feasibility study it was found not to yield any benefit.

Re-visited in new study with land reprofiling to divert water towards existing culverts during times of flood; addition of new flood relief culverts; and upsizing of existing ones.

Option Discussion

Stakeholder option discussion points:

Advantages of Option
- Upgrade of an existing flood prevention feature
- Provides relief where there is an existing barrier to flow

Disadvantages of Option
- Significant and costly ground investigation work needed
- Risks in working beneath active major road

Other Points Raised
- Flood outline insensitive to changes in this area
- Topography causes water levels to rise and flood town before spilling towards flood relief culverts

Impact on Flood Risk
- No reduction in receptors
- BCR of 0.14 found

Figure 15-1: Newton Stewart Flood Relief Culverts – Summer 2017

Option Conclusion

Stakeholder option decision:

- Option not progressed
- Topography prohibits effective operation of culverts
- No reduction in properties flooded
- Not beneficial in conjunction with any other options

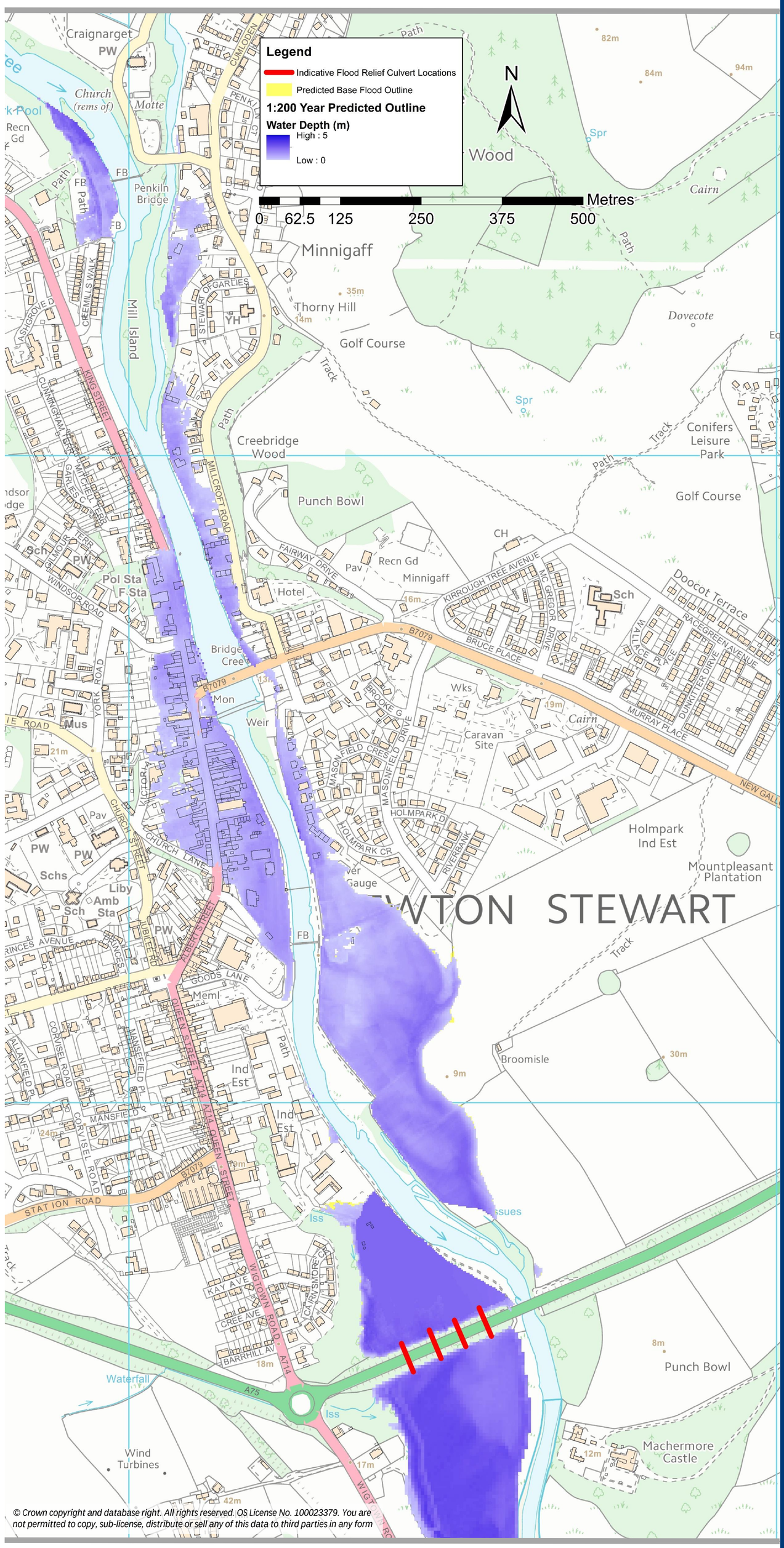

Figure 15-2: 1:200 Year Predicted Flood Outline – Increase A75 Flood Relief Culvert Capacity

Dumfries & Galloway Council

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