



Bushy Lease

Flood Risk Assessment

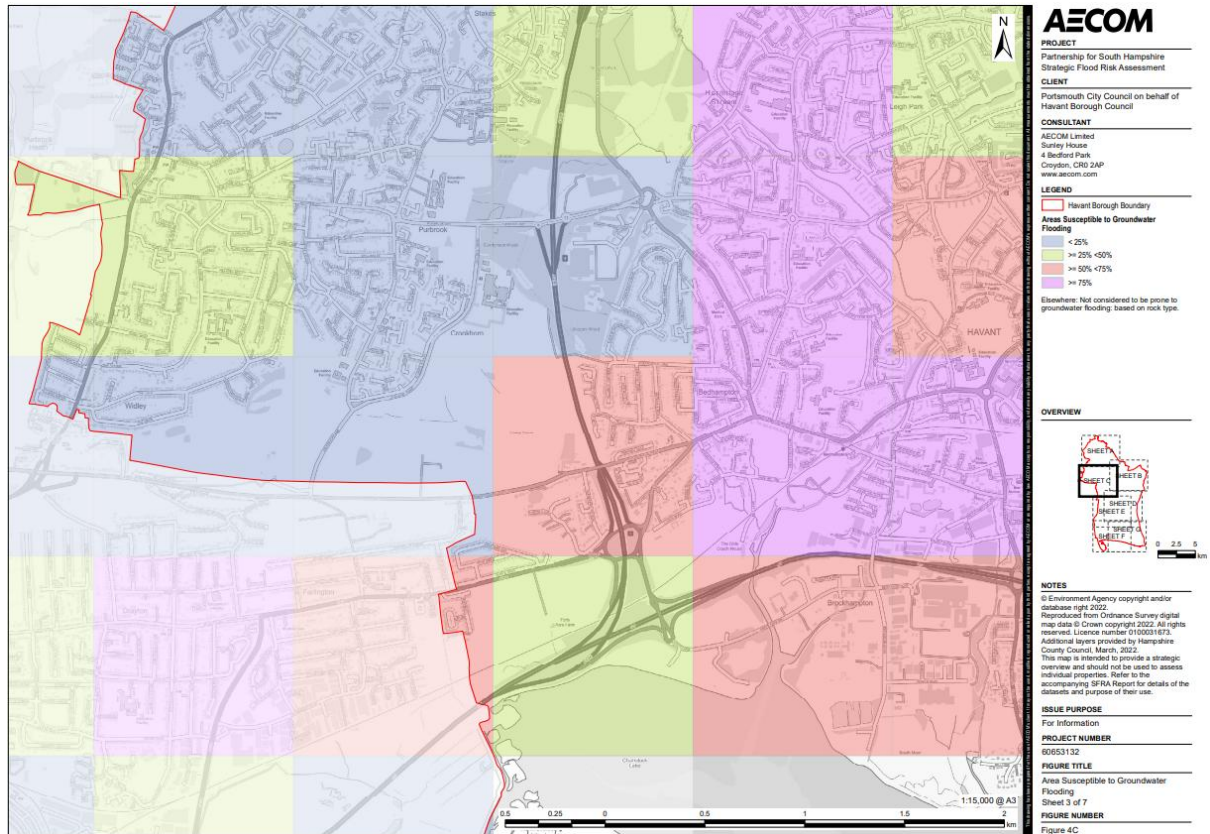
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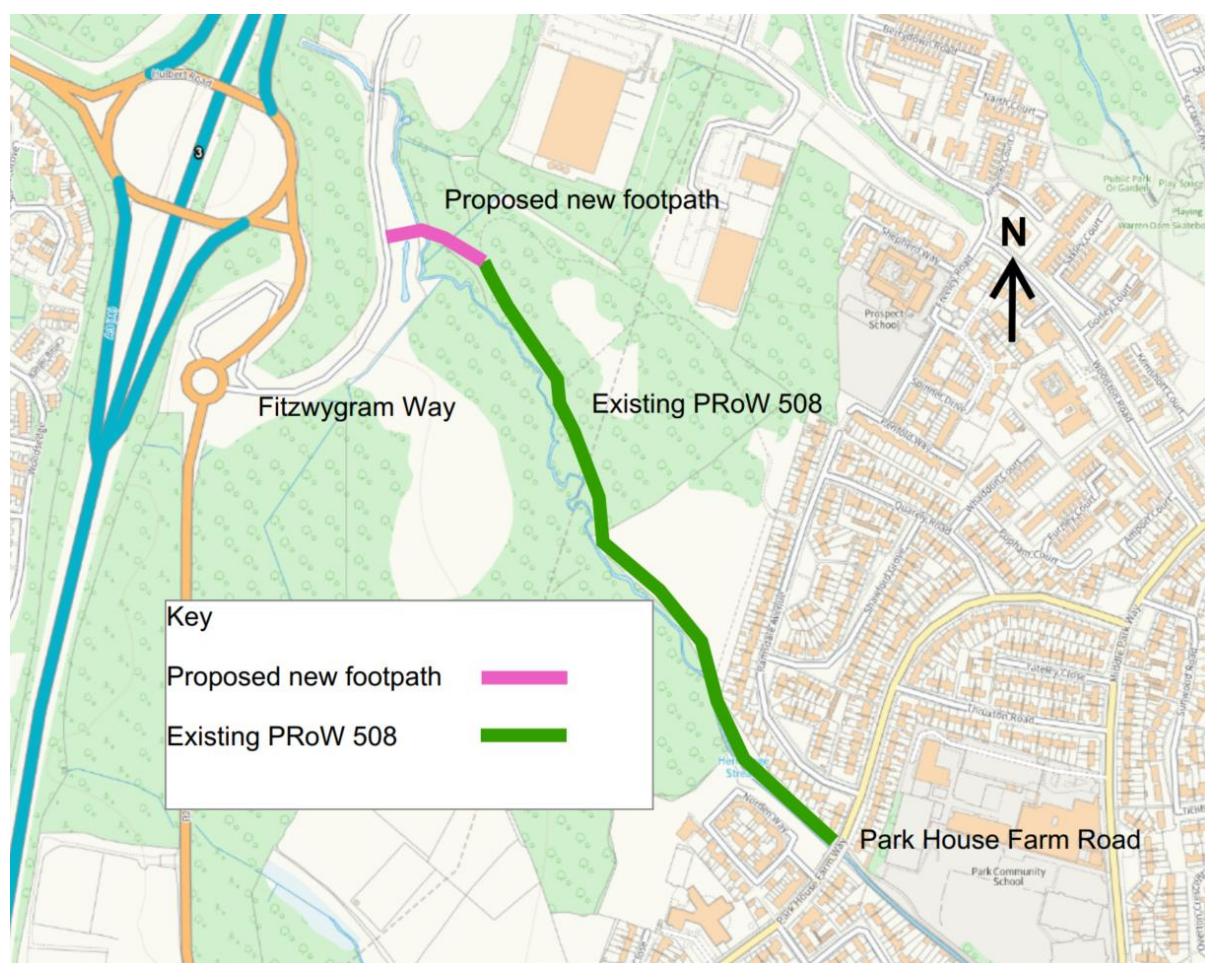


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1 Introduction

- 1.1 Havant Borough Council (HBC) propose to undertake works to create a sustainable access route for use by pedestrians, cyclists and mobility vehicles between Havant and Waterlooville avoiding alternative busy roads or indirect routes.
- 1.2 The proposed works supports the Prosperity Havant agenda by providing a more direct walking and cycle route between the two main centres of the Borough whilst at the same time improving access to the new Dunsbury Hill Business Park and the wider countryside.
- 1.3 The proposed works are to upgrade the existing Public Right of Way (PRoW) which runs adjacent to the Hermitage Stream for the majority of its length between Fitzwygram Way and Park House Farm Road, A short section of new path is to be created between the end of the PRoW and Fitzwygram Way, this will include a new footbridge to cross the Hermitage Stream. As shown in Figure 1 below

Figure 1: Proposed works to existing PRoW and New footpath



- 1.4 The existing Public Right of Way (PRoW) 508 is adjacent to the Hermitage Stream, as shown in Figure 2 below. This PRoW is currently affected by fluvial Flood zones 2 and 3 according to the Flood map for planning

Figure 2: PROW 508



- 1.5 The works are to upgrade and widen to 3m the existing Footpath 508 from Park House Farm Way. The section of Footpath 508 to be upgraded is approximately 500m long in a north-westerly direction from Park House Farm Way at which point the route turns west and crosses the Hermitage Stream via a footbridge before terminating at Fitzwygram Way.
- 1.6 All maps and figures used in this Flood Risk Assessment are taken from Partnership for South Hampshire Strategic Flood Risk Assessment (PfSH SFRA), Flood map for planning and the DEFRA website. This Flood Risk Assessment (FRA) sets out the specific flood risks to the proposed works and offers mitigation.

2 Flood Risk

2.1 There are five sources of flood risk identified which may have the potential to affect the proposed works, these mechanisms of flood risk are discussed in detail below, These are: in the Partnership for South Hampshire Strategic Flood Risk Assessment (SFRA) 2024.

- i) Flooding from the sea
- ii) River flooding
- iii) Groundwater flooding
- iv) Surface water and sewer flooding
- v) Reservoir flooding

2.2 All Mapping is taken from the following sources.

Flood dataset title	Document/Source
Flooding from the Sea	Defra website GOV.UK
River/Fluvial Flooding	Flood Map for Planning GOV.UK
Main Rivers	Flood Map for Planning GOV.UK
Surface Water	South Hampshire SFRA 2024
Areas that may be sensitive to change in water level	South Hampshire SFRA 2024
Groundwater	South Hampshire SFRA 2024
Sewer Flooding	South Hampshire SFRA 2024
Public Rights of Way	Hampshire County Council

2.3 Flooding from the sea

A search on the DEFRA website using a postcode within the location of the works returned no results. There is therefore no risk of flooding from the sea.

Figure 3: Flooding from Sea

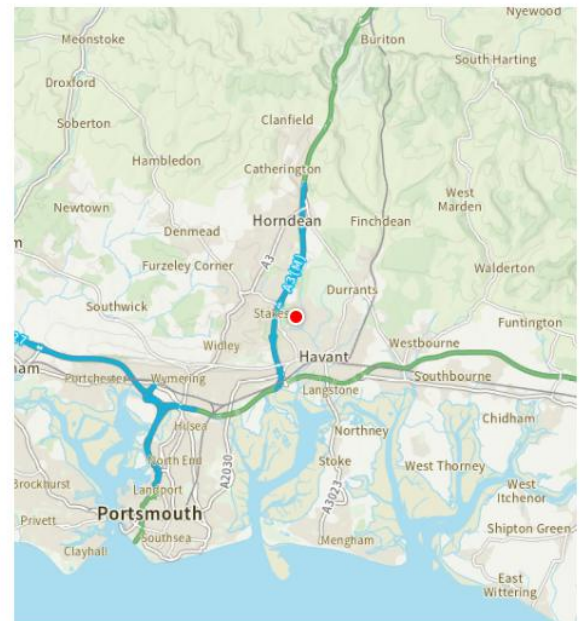
No results for "PO9 4DX"

There are no units within 2km of PO9 4DX.

Try again with a location closer to the coastline

e.g. Portsmouth or PO1 1AA

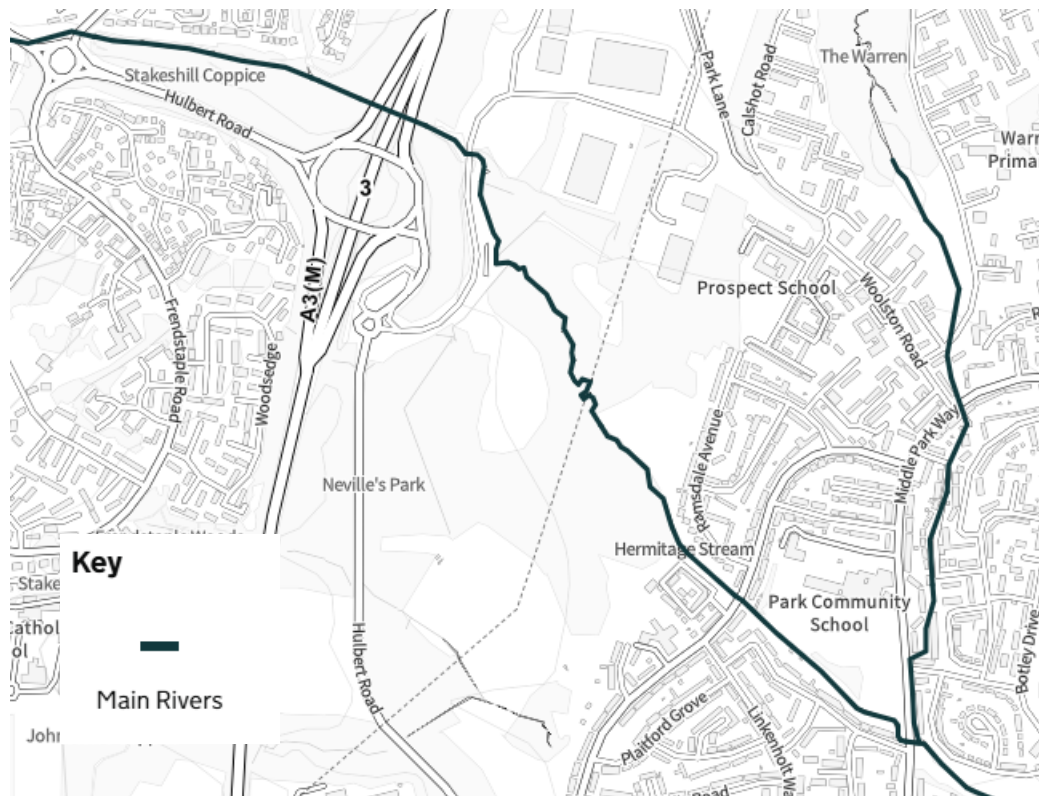
Search



2.4 River/Fluvial flood risk

River flooding or fluvial flooding is the risk of flooding from main rivers, managed by the Environment Agency, or Ordinary Watercourses (OWC), managed by the Lead Local Flood Authority (LLFA). Hermitage Stream is designated as a main river, as shown in Figure 4 below.

Figure 4 Main Rivers



- 2.5 The Hermitage Stream is in flood zones 2 and 3, the proposed works to PRoW 508 are adjacent to the Hermitage Stream, as is the proposed new footpath and footbridge.
- 2.6 Figure 5 & 6 Below shows the extents of flood zones 2 and 3 including climate change 2075-2125. The proposed works are to improve the surface of the existing footpath. These proposed works will maintain existing footpath levels; there will, however, be sections of the footpath which will be elevated due to the product being used to protect the existing tree roots, these are shown in Drawings HBC-2016-19-PD-00012.01, HBC-2016-19-PD-00012.02, HBC-2016-19-PD-00012.03. It is not considered that these local interventions will affect the natural flows or create blockages of the Hermitage Stream along this section, given that the PRoW and the Hermitage Stream are within the natural environment of the existing woodland.

Figure 5: Flood Zones 2 & 3

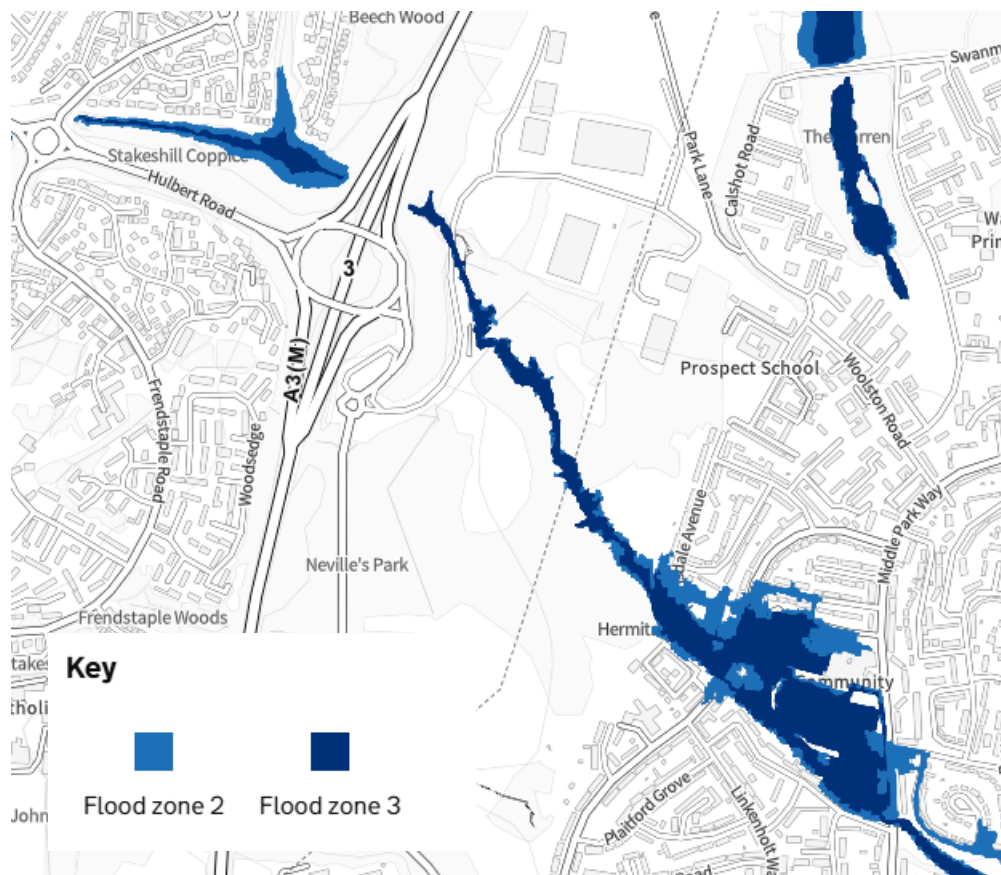
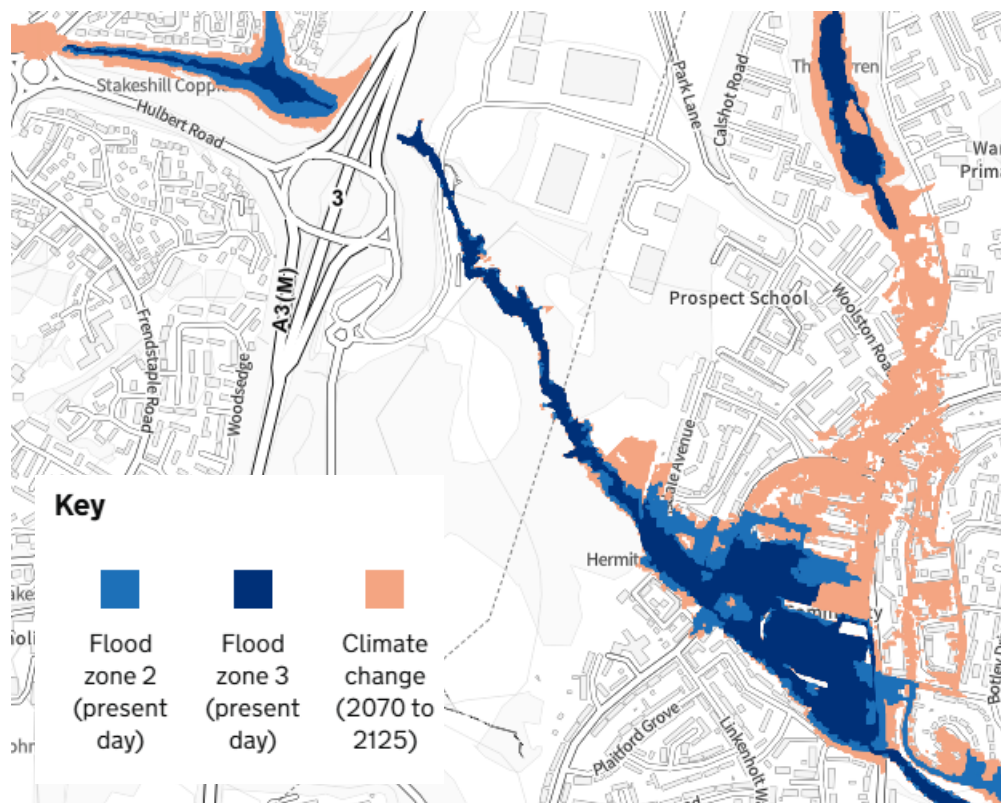


Figure 6: Flood Zones 2 & 3 + Climate Change 2075-2125



- 2.7 The only available modelling for the section of the Hermitage Stream where the proposed works are to place is the current NAFRA2 available on the GOV.UK website. This data does not define what would be considered functional flood plain so it is difficult to assess the direct impacts the proposed works would have. However the South Hampshire Strategic Flood Risk Assessment 2024, undertook some work to identify possible areas where water may increase by either 300mm or 600mm.
- 2.8 It can be seen in figures 7 & 8 below there is limited areas along the proposed footpath works. However, it is accepted that the proposed new footbridge could have an impact on flows of the Hermitage Stream. As such the bridge will be raised 600mm above current levels to ensure it does not affect flows.

Figure 7: Areas that may be sensitive to change in water level – North Proposed works.

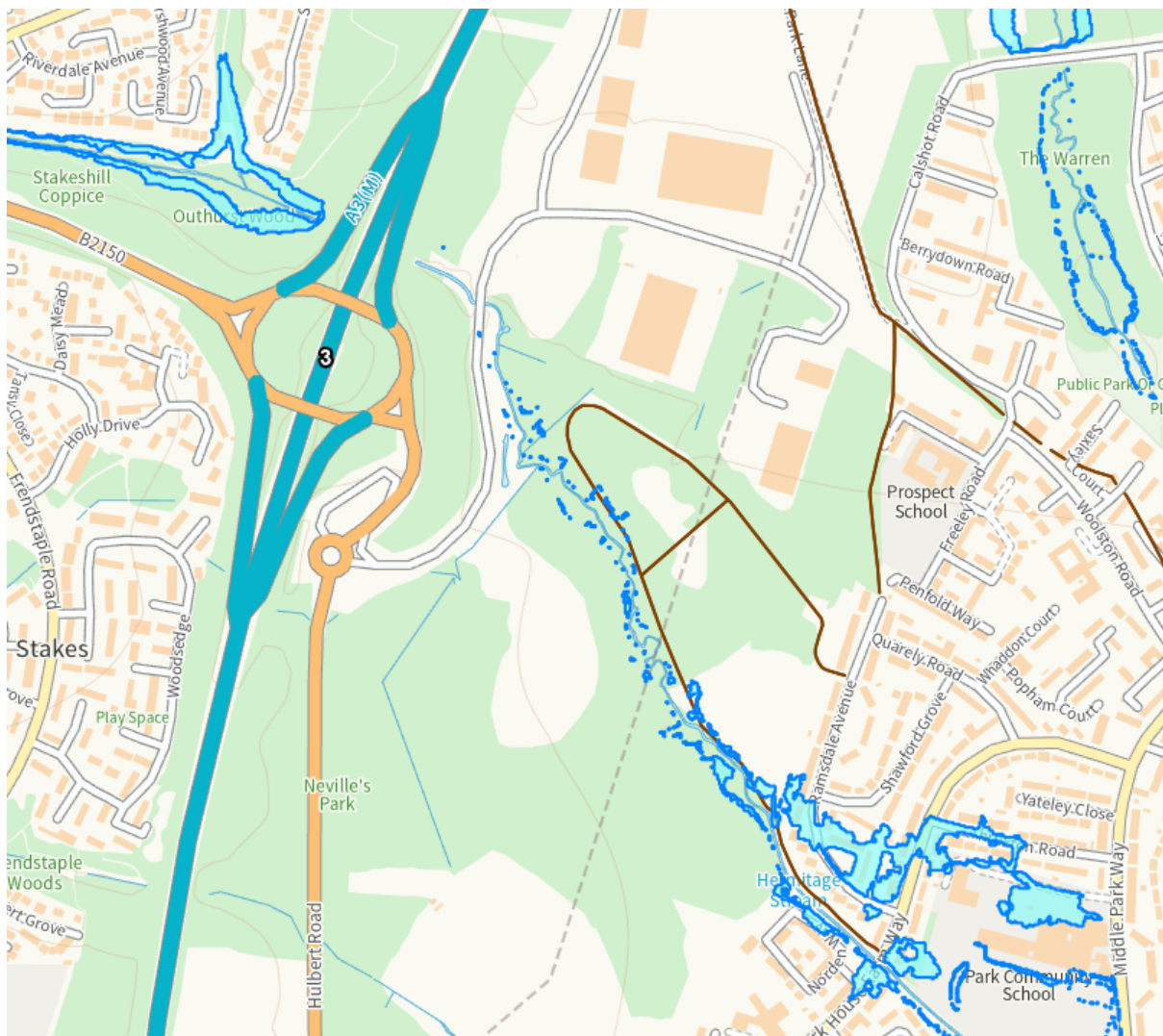


Figure 8: Areas that may be sensitive to change in water level – South Proposed works



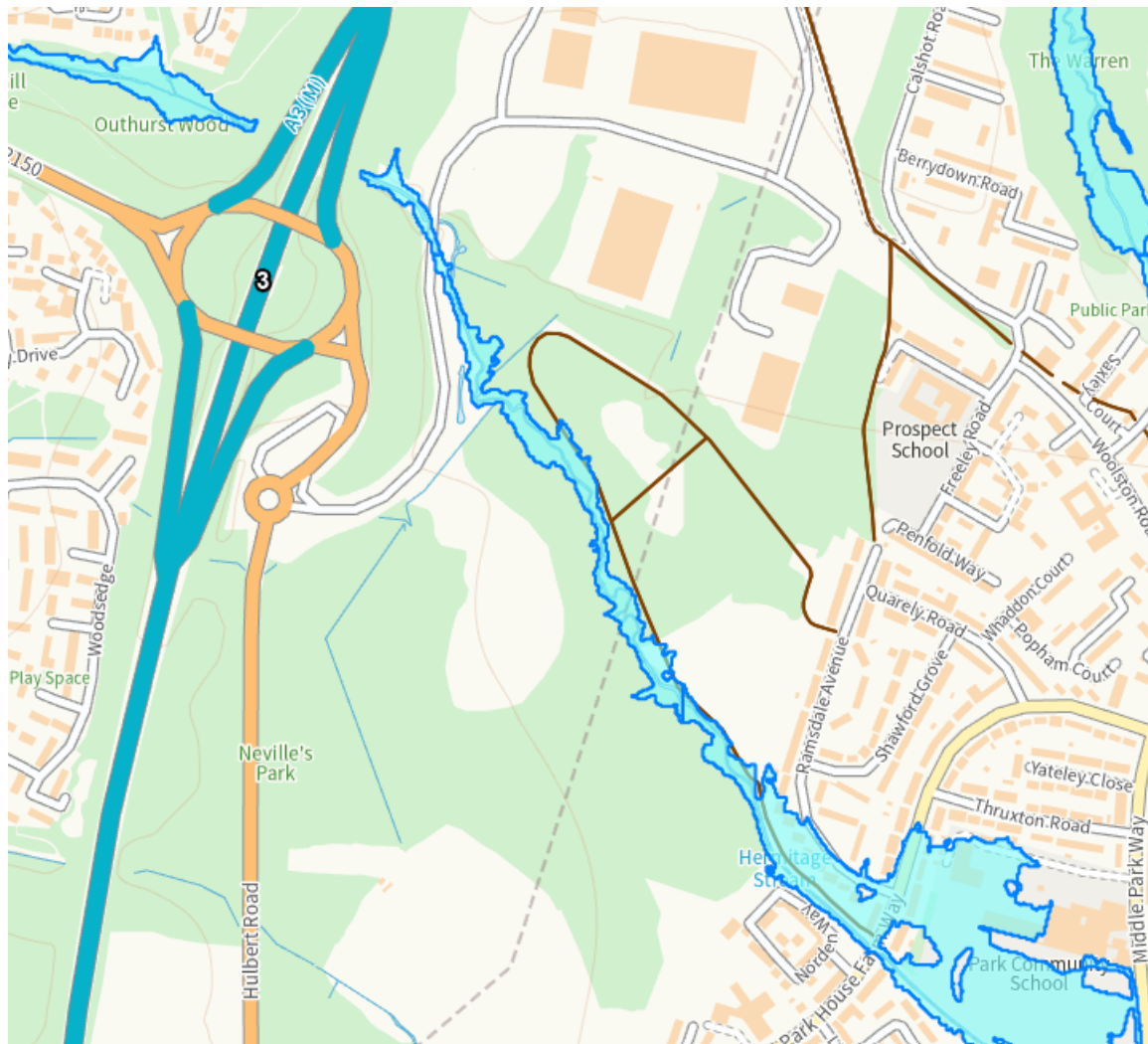
- 2.9 As can be seen in Figure 9 PRoW 508 & FZ2 below the existing footpath has minimal interaction with Flood Zone 2 and wouldn't increase flood risk to property.

Figure 9: PRoW 508 & FZ2



- 2.10 Figure 10 PRoW 508 & FZ3 below shows the interaction between the existing PRoW and Flood Zone 3. The PRoW would currently flood for the section which toward Park House Farm Road. The proposed works would not alter current levels in this location, as such would not increase flood risk in this location, but maintain the current status quo.

Figure 10: PRoW 508 & FZ 3



2.11 Groundwater flooding.

The groundwater flood risk for the area of the proposed works is shown in Figures 11 & 12 Groundwater. The proposed works straddles 2 areas susceptible to groundwater flooding. However, the proposed works are only footpath construction to a depth of no more than 200mm, as such will not be impacted by groundwater or affect the groundwater horizon.

Figure 11: Groundwater North

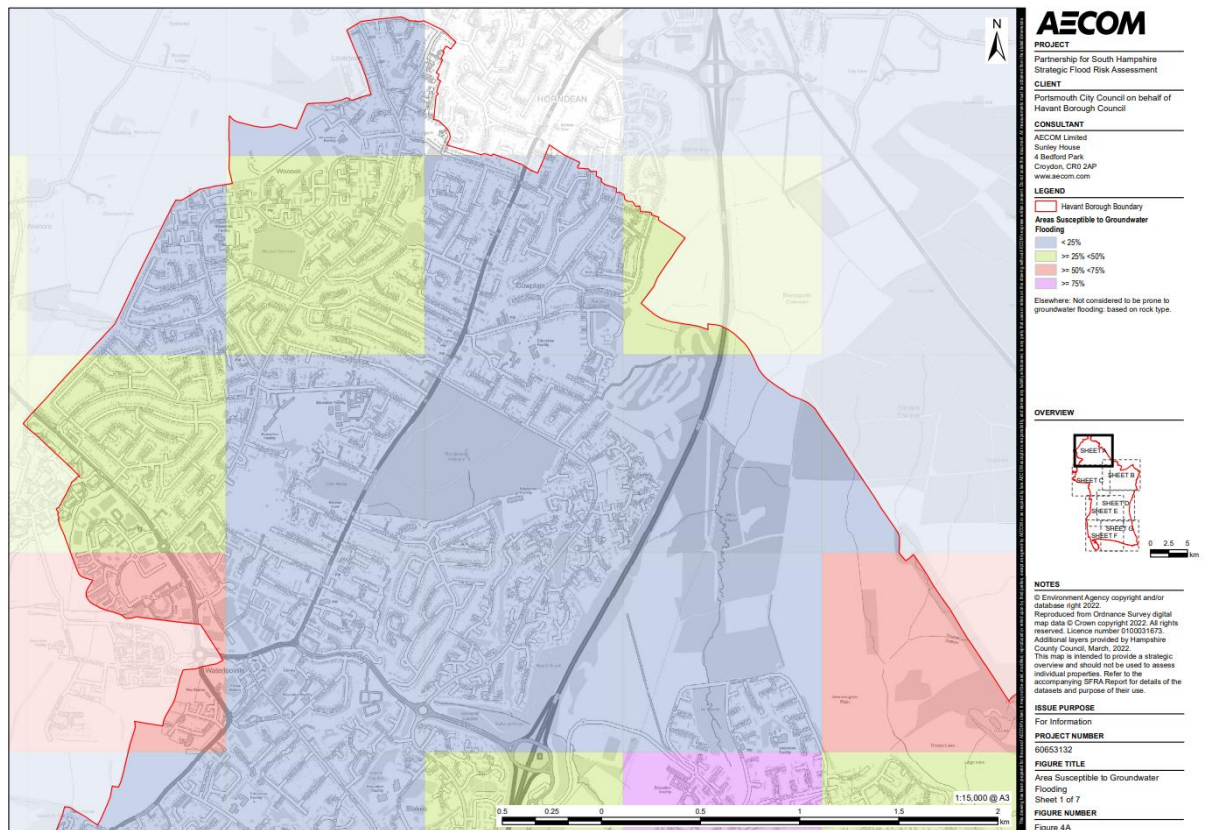
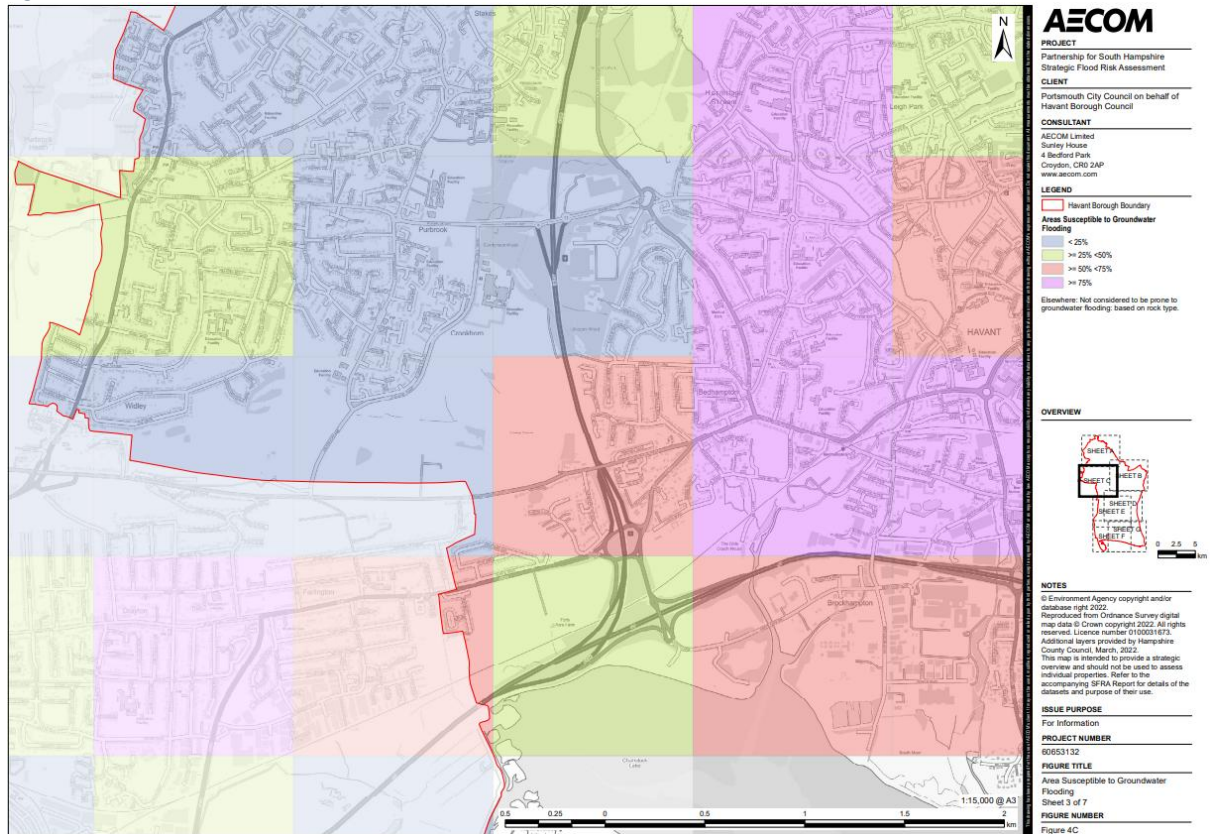


Figure 12: Groundwater South



2.12 Surface water flooding.

As shown in Figures 13 & 14 below, there is little impact of affect from pluvial flood risk, which would impact the proposed works or when the footpath works are completed. As with the fluvial flood risk there would be minimal affect to the natural flow paths and would not increase flood risk elsewhere.

Figure 13: Surface Water North

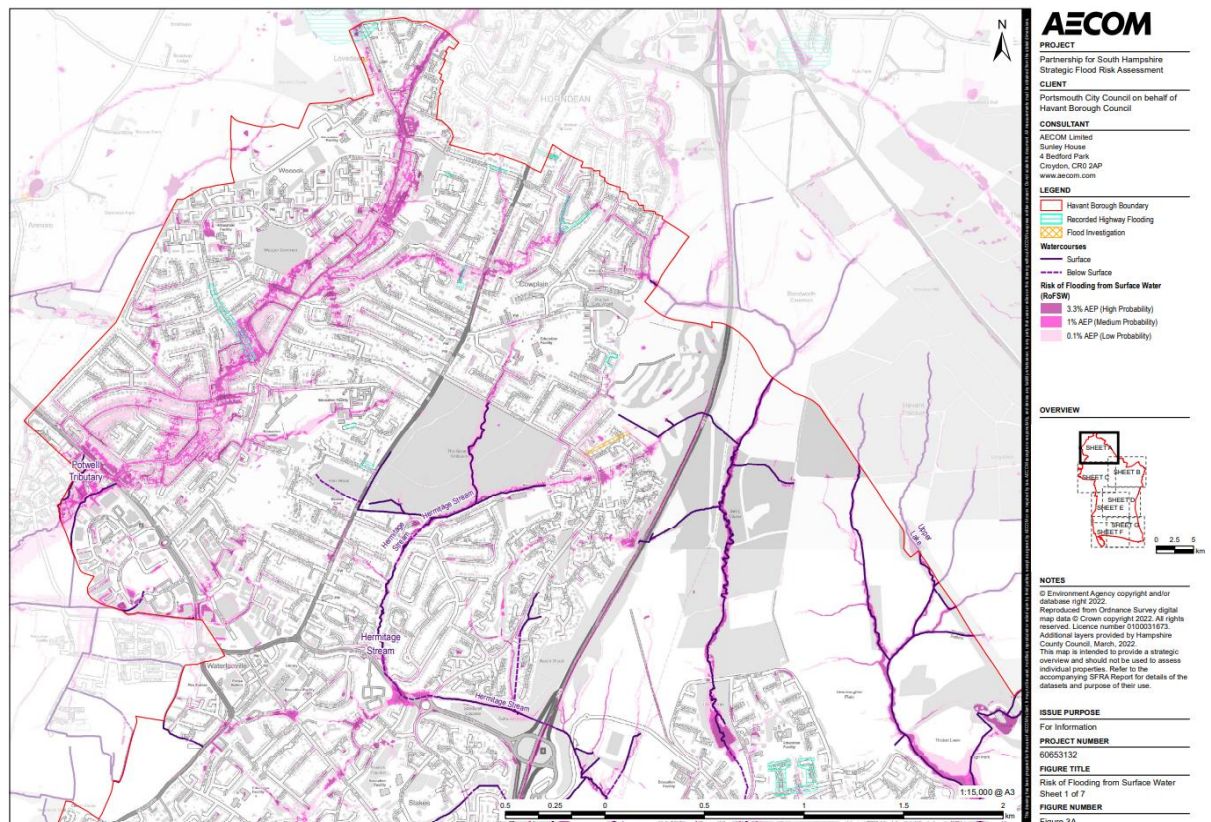
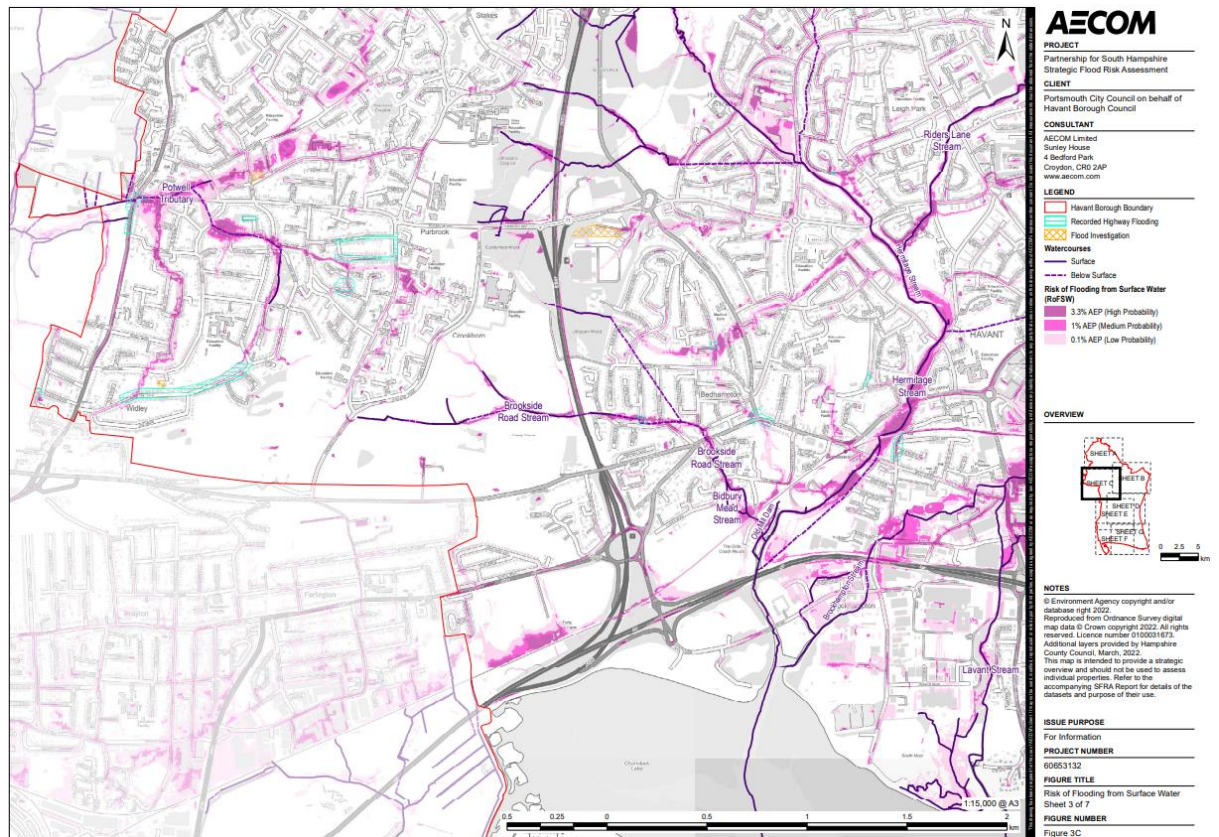


Figure 14: Surface Water South



2.13 Sewer Flooding

As shown in Figures 15 & 16 there is no sewer flood risk to the proposed work.

Figure 15: Sewer Flood Risk North

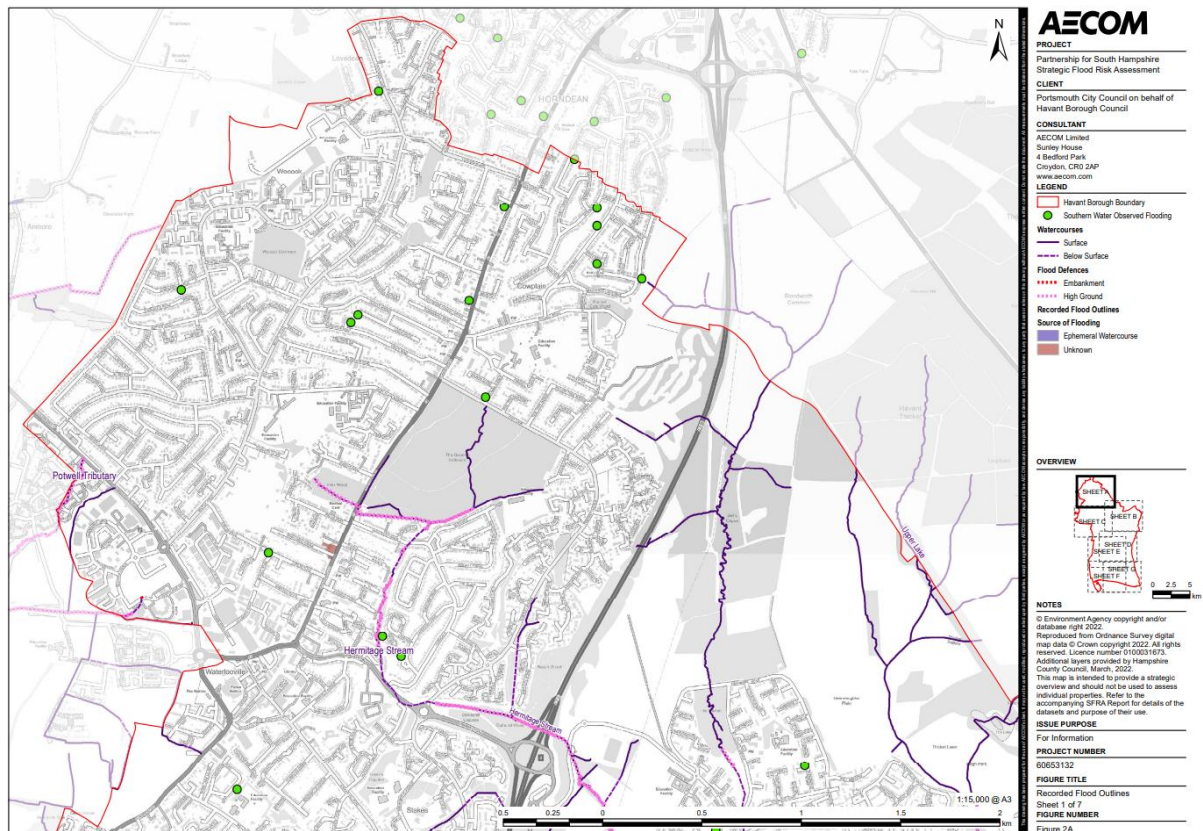
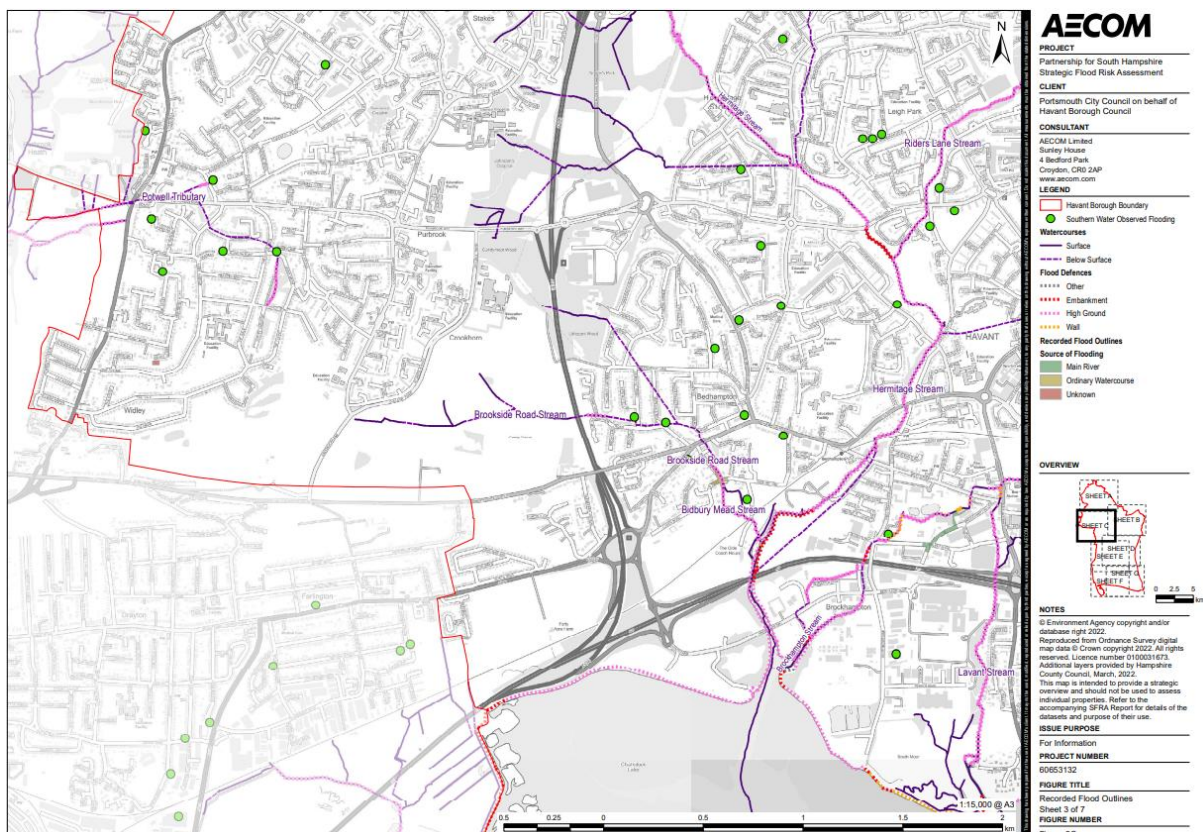


Figure 16: Sewer Flood Risk South



2.14 Reservoir flooding

There are no reservoirs within the area of the proposed work, as such there is no flood risk from reservoirs as shown in Figures 17 & 18 Reservoir Flood Risk

Figure 17: Reservoir Flood North

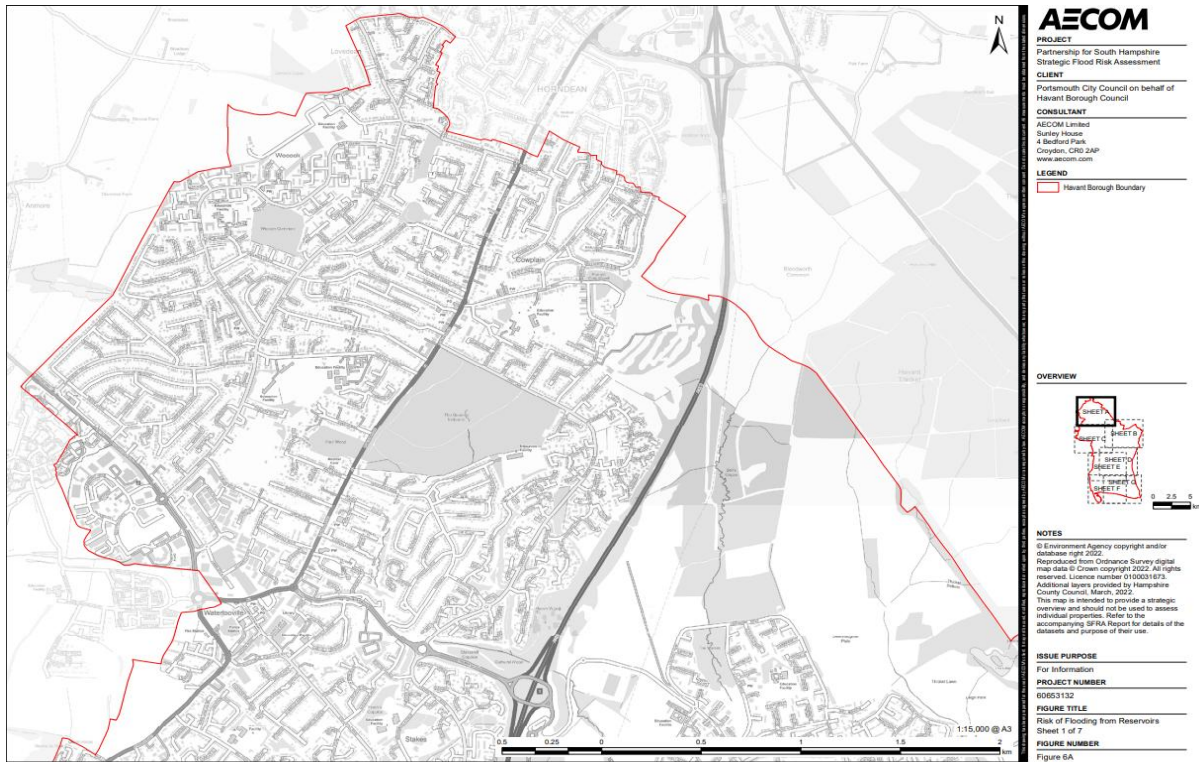
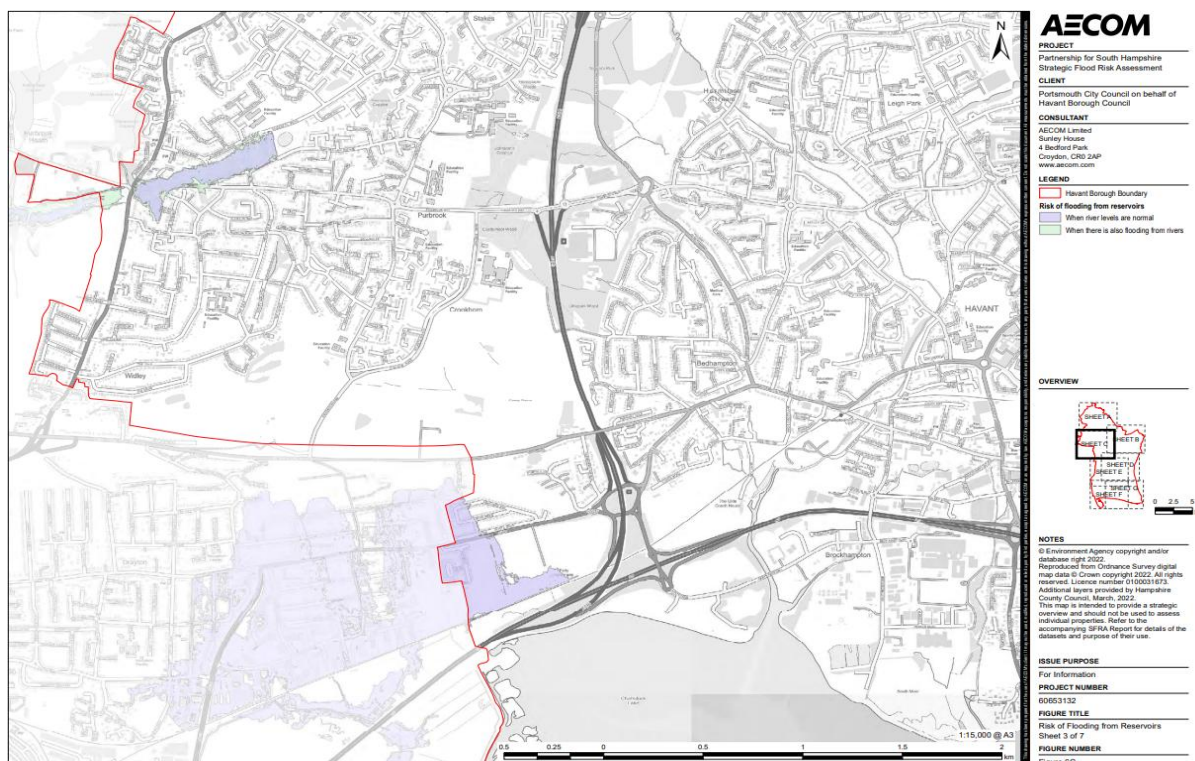


Figure 18: Reservoir Flood South



2.15 Exception Test

In accordance with Annex 3 of the National Planning Policy Framework (NPPF) the upgrade of Footpath 508 and introduction of a new footpath and footbridge would be classified as amenity works and defined as water-compatible development, as such passes the exception test

2.16 Sequential Test

The new footpath is designated in Appendix C of Havant's Local Cycling and Walking Infrastructure Plan (LCWIP) as a proposed route in HBC's network of cycle routes (existing and proposed). The works are an upgrade to existing infrastructure and can be considered a development of the Amenity Open Space as set out in Planning Practice Guidance (PPG) Table 2: Flood Risk Vulnerability Classification. The works can also be considered water-compatible development in accordance with PPG Table 3: Flood Risk vulnerability and flood zone 'compatibility' (NPPG, 2014). As such the proposed works are appropriate, so the Sequential Test does not apply.

3 Climate Change

- 3.1 When assessing flood risk climate change should be considered to ensure that development will not have a detrimental effect for the lifetime of the development.
- 3.2 The effects of climate change (from 2075 to 2125) on flood zones 2 and 3 when compared to the present day are shown in paragraph 2.4. As the proposed route is primarily an upgrade of the existing Footpath 508 climate change is expected not to have any effect on the footpath.
- 3.3 No further assessment of Climate Change impacts has been undertaken as the proposed works are minimal and will not increase risk.

4 Conclusion

- 4.1 As discussed in paragraph 2.14 the works to be undertaken are improvements to the Amenity Open Space which in line with the NPPG Table 3 is categorised as water-compatible development.
- 4.2 The proposed works to both upgrade the existing PRoW and create a new footpath and footbridge will not have a detrimental effect, as demonstrated, on flood risk along the proposed works or wider area.