

Isle of Wight Local Flood Risk Management Strategy

Appendix L: Bembridge

July 2016

Isle of Wight Council, Planning and Housing Services

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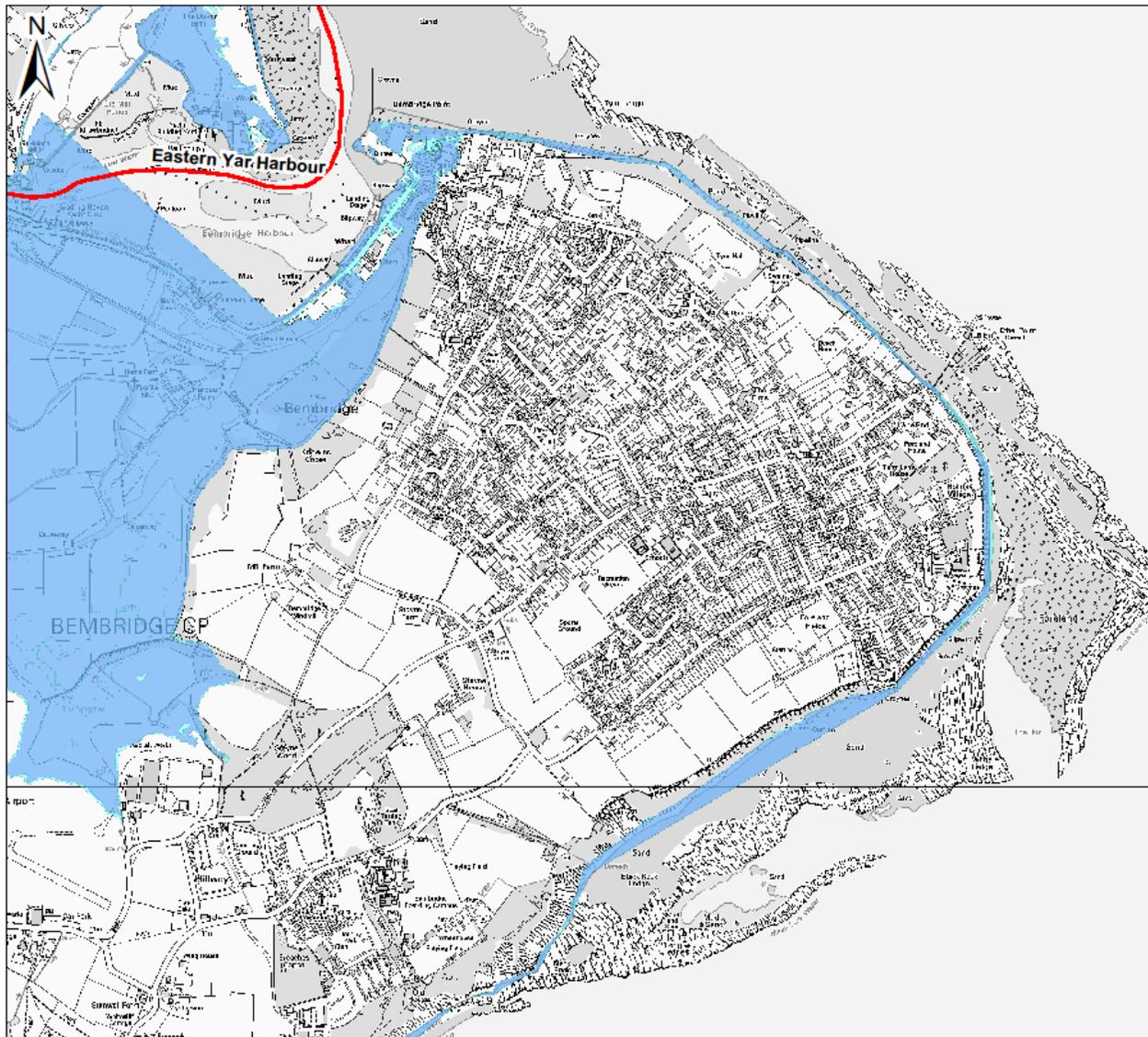
DOCUMENT CONTROL

General information

Title	Isle of Wight Local Flood Risk Management Strategy Appendices
Owner	Wendy Perera, Head of Planning and Housing Services – Isle of Wight Council
Version	Final Report
File status	Active

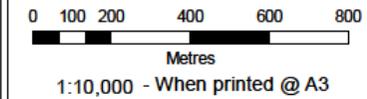
Revision history

Summary of changes	Completed by	Date	Current version?
First Draft	EA/IWC	28/11/2013	No
Second Draft	EA/IWC	02/05/2014	No
Third Draft	EA/IWC	05/02/2015	No
Consultation Draft	IWC	31/03/2016	No
Final Draft Report	IWC	14/06/2016	No
Final Report	IWC Executive Committee	14/07/2016	Yes
Programmed Review	IWC	31/07/2021	



Legend

- Main River
- Flood Zone 3
- Flood Zone 2



Notes

Flood Map Areas (assuming no defences)

Flood Zone 3

Shows the area that could be affected by flooding:
 - from the sea with a 1 in 200 (0.5%) or greater chance of happening each year.
 - or from a river with a 1 in 100 (1%) or greater chance of happening each year.

Flood Zone 2

Shows the extent of an extreme flood from rivers or the sea with up to a 1 in 1000 (0.1%) chance of occurring each year.

Figure L1

Environment Agency Flood Zones 2 & 3 for Bembridge

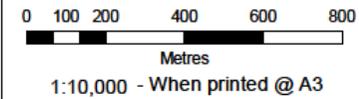
November 2014



Local Flood Risk Management Strategy

Legend

- Main River
- Ordinary Watercourses
- High
- Medium
- Low



Notes

Likelihood of flooding from Surface Water

- High :**
Greater than or equal to 1 in 30 (3.3%) chance in any given year.
- Medium :**
Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance in any given year.
- Low :**
Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year.
- Very Low :**
Less than 1 in 1,000 (0.1%) chance in any given year.

Figure L2
Updated Flood Map for Surface Water (UFMfSW) for Bembridge

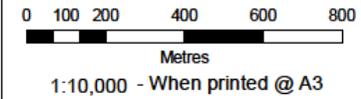
May 2015



Local Flood Risk Management Strategy

Legend

■ Recorded Flood Events



Notes

Location of reported flooding incidents

Figure L3

Historic flood events for Bembridge

May 2015

Area overview

Bembridge is situated at the Eastern point of the Island. The town has a coastline to the south and east and Eastern Yar Floodplain to the north and west. The town is surrounded by tidal Flood Zones on three sides, but no watercourse with a fluvial Flood Zone passes through the town itself. The risk from the sea rapidly diminishes with distance from the coast as the town is built on a headland which reaches over 40m AOD in elevation in the centre of the headland.

Tidal flood risk

Tidal flood risk is the main source of risk to Bembridge, however, the extent of flooding is not that large. The majority of the settlement is expected to remain dry with the exception of *Embankment Road, Harbour Strand* and *Station Road*. However, it there are limited, if any confirmed reports of tidal flooding having an impact in this area to date. This risk however, is likely to increase in the future as a result of climate change, but due to the steeply rising topography of Bembridge, it is not expected to greatly increase the extent of flooding.

Fluvial flood risk

There are no watercourses within Bembridge itself; as such there is no modelled fluvial risk for this area. The Eastern Yar floodplain affects the Brading Marshes to the west, but is not modelled to affect the settlement.

Surface water flood risk

Modelled surface water flood risk tends to follow the highways in Bembridge as there are no formal watercourses of significance. Those most likely to be subject to overland flow according to the modelling are *Lane End Road, Steyne Road, High Street, Foreland Road* and *Station Road*. However, the modelling shows any surface water flooding to generally be contained by the highway.

Groundwater flood risk

There have been no incidents of groundwater flooding recorded for the Bembridge area. As such, groundwater flood risk is considered to be low.

Reservoir flood risk

There are currently no known reservoirs on the Island that meet the requirements of the Reservoirs Act 1975, which are reservoirs that hold at least 25,000 cubic metres of water above ground level. As such flood risk from this source is considered to be nil.