

BA09: Leysdown

What is in the Benefit Area

Benefit Area 9 covers the popular tourist areas at Leysdown, ending at the SSSI designated cliffs at Warden Bay in the North. The area is a tourist area, with a number of tourist amusements, an amenity beach and some large caravan sites. The defences in the Benefit Area mainly consist of embankments and walls. The flood defences at Leysdown have a current minimum SoP of 4% AEP. Both the flood and erosion defences have an average residual life of 25 years. The key risk in the area is from coastal erosion in BA9.1 and to the north of BA9.2 at Warden Bay. The majority of BA9.2 (Leysdown) is at risk of coastal flooding.

What is at risk?

- Roads – Park Avenue, Shellness Road, Jetty Road
- Leysdown parade and tourist assets
- Caravan Park
- Residential and business properties

Other Considerations

- The cliffs at Warden Bay are part of the Sheppey Cliffs and Foreshore SSSI

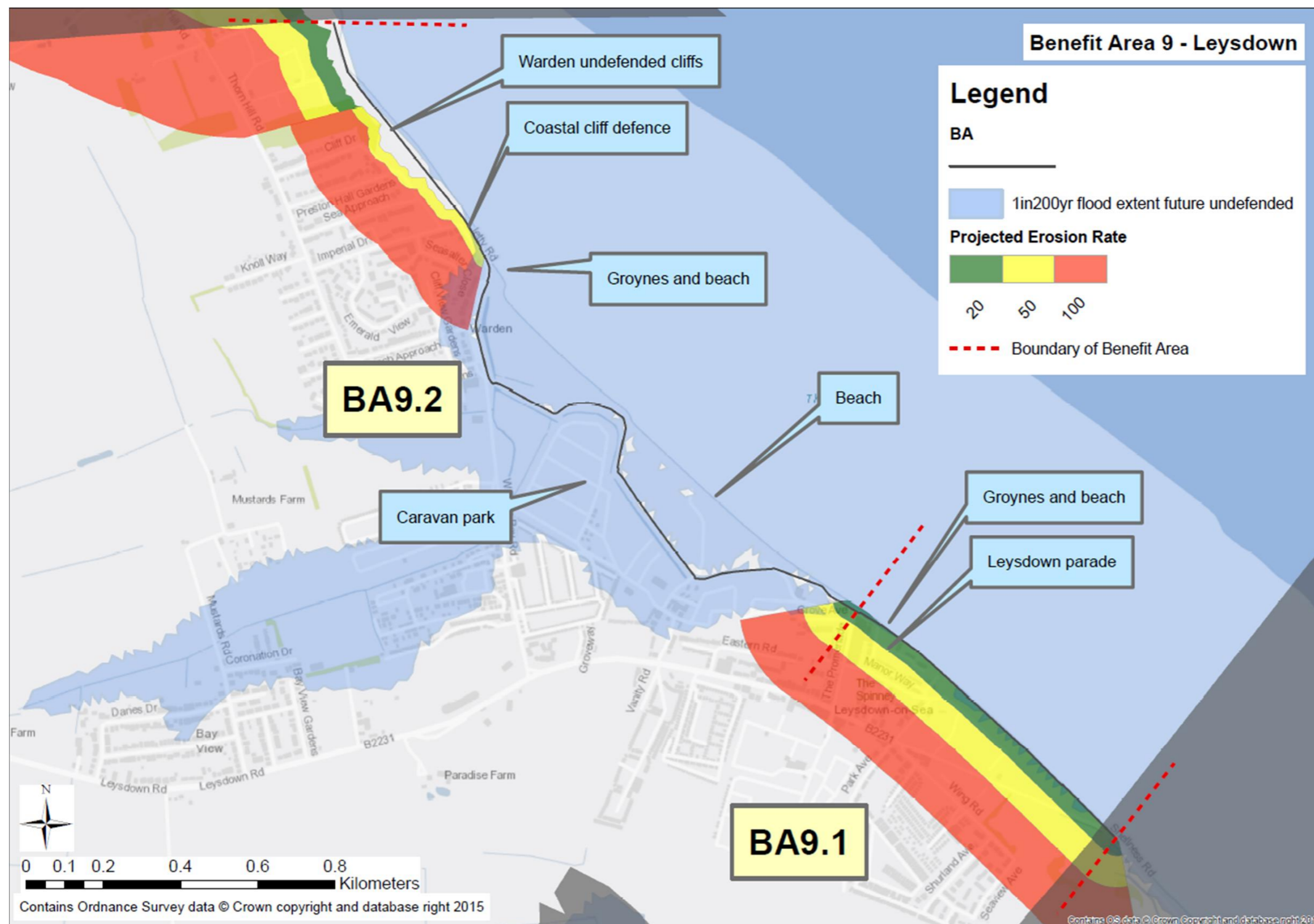


Figure 1: Leysdown Beach

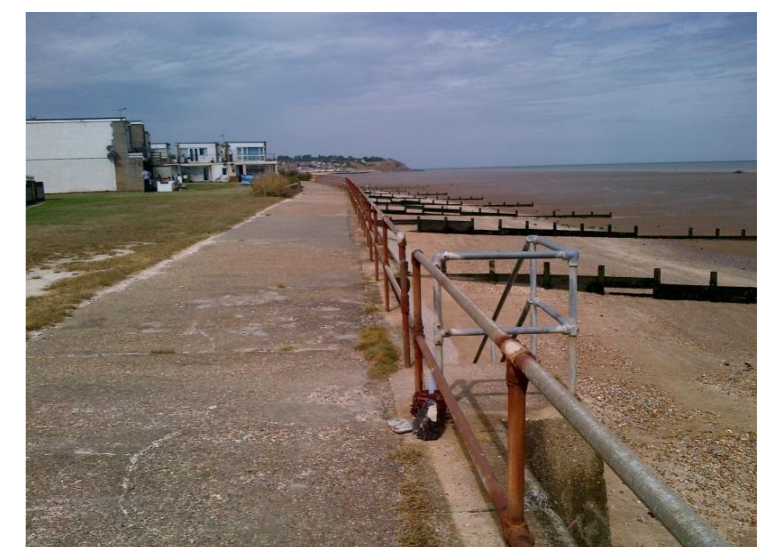


Figure 2: Leysdown

BA9.1: Leysdown

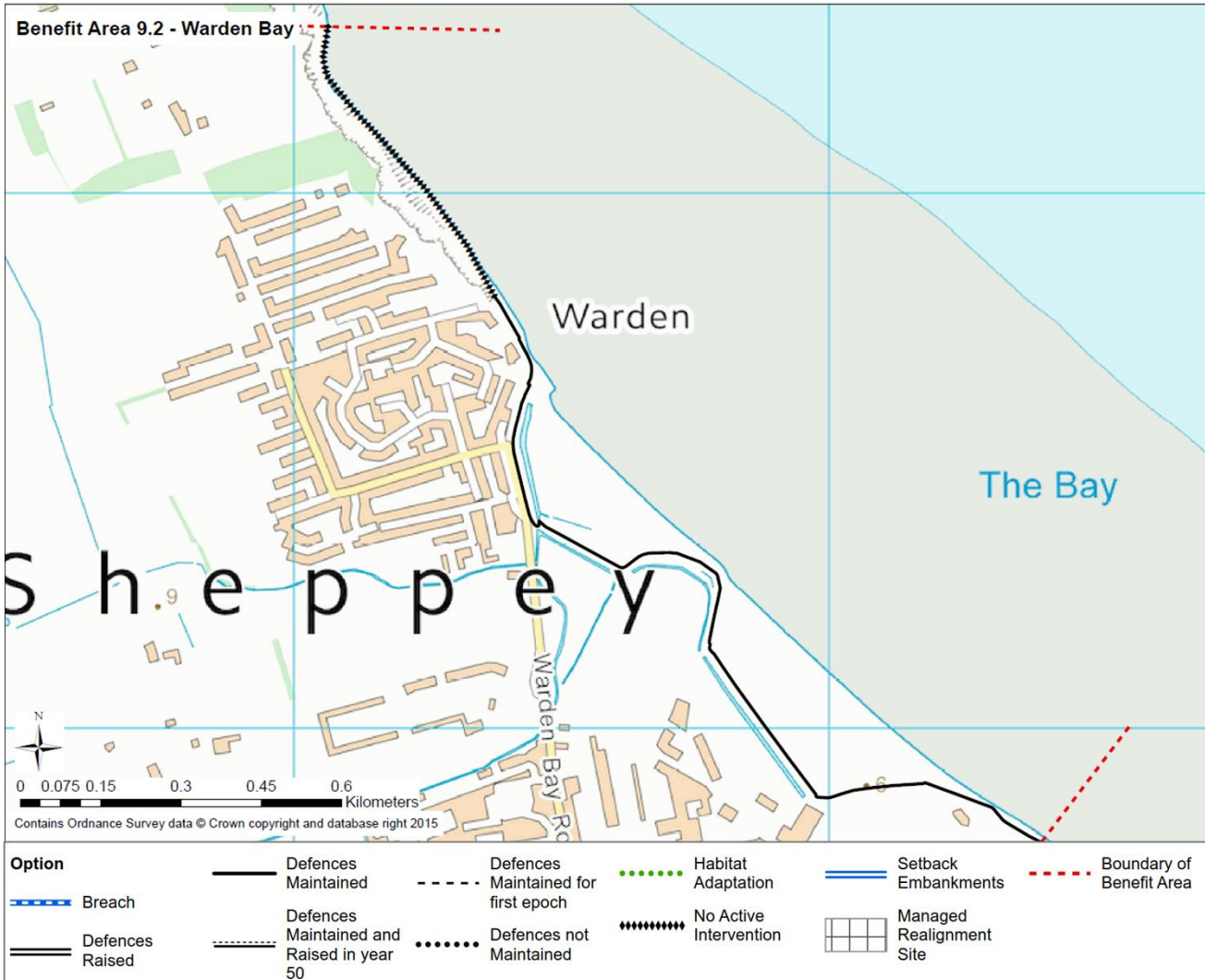
Now – 2038	2038-2068	2068-2118
HTL Maintain	HTL Maintain	HTL Maintain



Preferred Option			
Maintain (with capital works) walls, groyne and beach. Capital works will be undertaken on the current defences to ensure that they remain in place to protect the toe of the cliff from erosion.			
Justification			
This option has the highest BCR and no other options have a BCR of greater than one.			
Preferred Option Costs			
Costs	Benefits	BCR	PF Score
£5,207k	£13,660k	2.6	59%

BA9.2: Warden Bay

Now – 2038	2038-2068	2068-2118
HTL Maintain, and NAI on the cliffs	HTL Maintain, and NAI on the cliffs	HTL Maintain, and NAI on the cliffs



Preferred Option

Maintain (with capital works) embankments walls, groynes and beach. NAI and localised property adaptation along Warden Cliffs. Capital works will be undertaken on the defences to ensure that they remain in place, however the SoP will not be improved with sea level rise, so the current minimum SoP of 4% AEP will decline over time. There will be a NAI policy on the SSSI designated cliffs at Warden, but costs have been included for relocating property away from the cliff top.

Justification

This option has the highest BCR and no other options have a BCR of greater than one. Property relocation allows for management of the risk to residents whilst maintaining the integrity of the SSSI cliffs.

Preferred Option Costs

Costs	Benefits	BCR	PF Score
£2,503k	£9,063k	3.6	25%