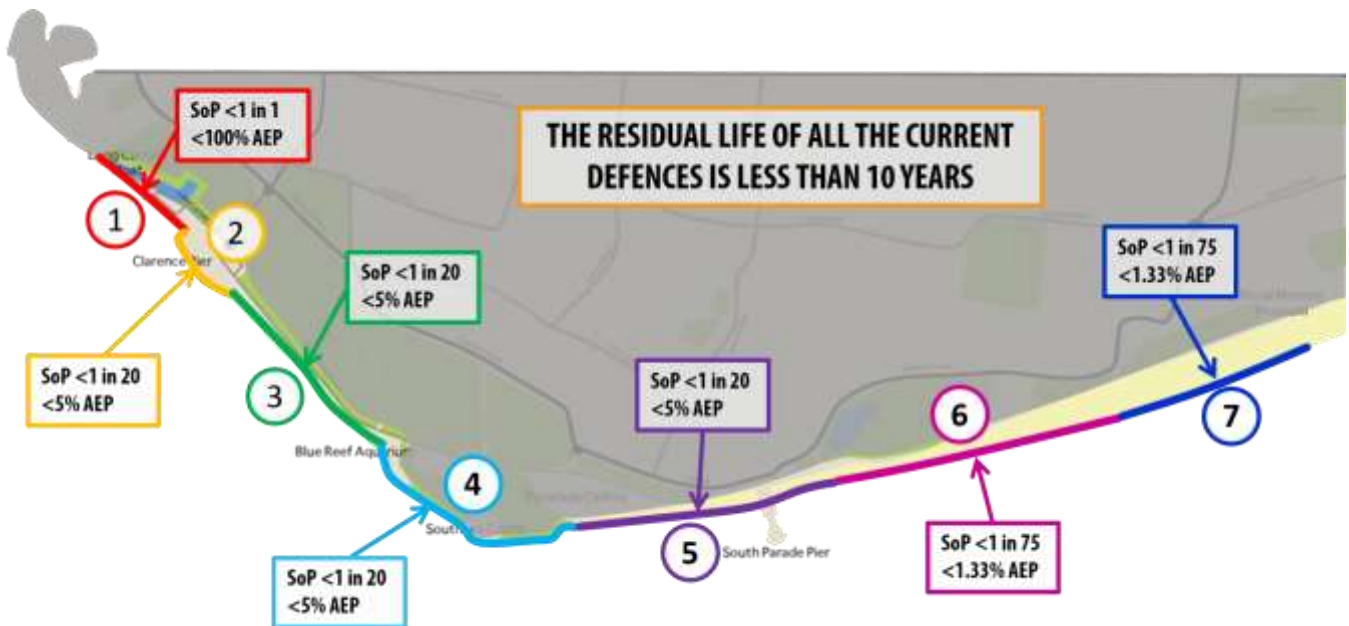


Current Standard of Protection

The Southsea Coastal Scheme is designed to provide a 1 in 200 year Standard of Protection (SoP), which is equivalent to a 0.5% Annual Exceedance Probability (AEP). The SoP and AEP are explained in more detail in our 'Flood Risk' Resource, found in the 'Resources' sections at www.southseacoastalscheme.org.uk. Essentially, this is the expected frequency or chance of an event of a certain size occurring. In this case, the seafront will be protected against an event that would be expected to occur only once every 200 years – equivalent to a 0.5% chance of it happening at any time.

The current defences at Southsea range from providing a 1 in 1 SoP (<100% AEP) to a 1 in 75 SoP (1.33% AEP) between Frontages 1 to 7. This can be seen in the figure below:



Early on in the scheme, further asset condition inspections were undertaken and supported by a series of intrusive and non-intrusive investigations (undertaken by White Young Green in February 2014). The results confirm the Portsea Island Coastal Strategy Study (PICSS) original assessment that the flood defences are at the end of their life. The poor condition of the defences has been realised even further over the past few years, with critical failures during the winter storms of 2014, 2015, and 2016. There is more information concerning the failure of the defences in our 'Resources' section of www.southseacoastalscheme.org.uk under the heading 'Failure of Defences'.

The Standard of Protection will be greatly improved through the construction of new coastal defences to eliminate the current high risk in Southsea.

Further Reading:

Page 11: Section 2.2 describes defence SoP and Annual Exceedance Probability
<http://publications.naturalengland.org.uk/file/71028>