

Clarification 1: Tuesday 27/4/2021

Dear Mr Grossett,

Thank you for your email.

We hope that you could clarify the following point for us.

The tender documentation does not refer explicitly to the need of undertaking a wave/water level modelling study, which would provide design conditions. Since the documentation refers to a previously completed concept design, we would like to understand if these conditions are going to be provided to the successful bidder or if the bidder needs to include this element in the tender proposal.

Thank you for considering our query.

Best Regards

Response

Thanks for your inquiry. We received a study completed by JBA in 2018 which modelled coastal floods for the Isles of Scilly at cross sections that are pertinent to each of the beaches.

The report includes the following:

- Estimates of flood levels for the 50%, 20%, 10%, 5%, 4%, 3.33%, 2%, 1.33%, 1%, 0.5%, and 0.1% Annual Exceedance Probability (AEP) flood events
- Estimates of flood levels for the 1%, 0.5% and 0.1% AEP events plus climate change based on the medium emission 95th percentile UKCP09 scenario projected to the year 2065 and 2115
- Estimates of flood levels for the 0.5% AEP event plus climate change based on the NPPF scenario projected to the year 2115

The report delivers design heights for Flood Alerts (FA) and Flood Warnings (FW) for the ocean level when wave overtopping would take place in each warning area (FWA), using the EurOtop I manual threshold for 'Aware pedestrian'. It provides the FA threshold as the average water level that results in the first property to flood (FPTF), and the FW threshold as the maximum water level associated with peak overtopping that causes the FPTF.

The report also provides 0.5% AEP (ie, 1:200 event) wave height, period, direction and water level for each location modelled in the islands (including St Agnes, Bryher, St Martin's, Tresco and St Mary's).

We don't expect the successful bidder to need to complete a wave/water undertake modelling study to define the design conditions for the contract.