

Flood Risk Assessment

Bradford's Quay, Wadebridge , Cornwall

**Project: Flood Risk
Assessment for a mixed use
development**

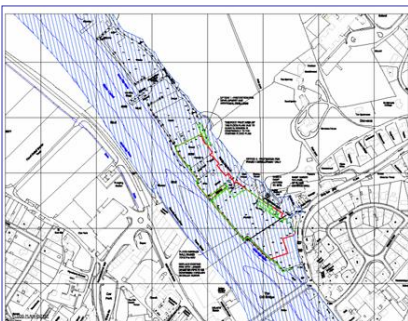
**Client: Wadebridge
Developments**

The consultancy division at H2OK were appointed to undertake a technical flood risk assessment at Bradford's Quay and to assist with the planning application to enable the client to progress with plans for a sustainable mixed-use development within a high-risk flood zone. This was instructed against a complex background of site ownerships, planning and environmental constraints.

In addition to this, H2OK were required to work closely with the Environment Agency to undertake both geotechnical (soils) and geo-environmental (waters) testing. This was needed to determine the design of foundations and to determine any contamination risks to controlled waters highlighted by previous site uses.

Tidal flooding is the major flood risk to this site. H2OK's engineers found that the existing site would flood to a depth of 0.6m during a 1 in 200 year tidal flood event.

This would cause severe damage to vehicles and buildings in the immediate area and therefore require flood mitigation measures to be put in place.



In addition to this, the report found that the existing Environment Agency flood defence had a remaining life of 25 years which was insufficient for the lifetime of the proposed development.



The proposed solutions included the construction of a stand alone private flood defence wall along the camel estuary, a land-raising scheme and a pumping station to defend the development from flooding. Improvement to the existing drainage system was also advised for overland flooding. A Flood Defence Consent was then sought from the Environment Agency to agree a solution.



H2OK were chosen for their extensive experience and reputation within the specialist field of flood management strategies. The relationship between H2OK and the Environment Agency was also important in making progress within reasonable timeframes.

H2OK are happy to consider any size development. If you would like further information on Flood Risk Assessments please contact floodrisk@h2ok.co.uk or call the telephone number below.

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