

Project Background

FCI was instructed by a major insurance company to undertake a flood risk assessment on a large steel processing and distribution facility located in Kent.

The insured had not suffered from flooding from any source during their tenure at the location, however analysis of detailed 2-dimensional hydraulic modelling suggested that the site was susceptible to inundation from the nearby river. Anticipated flood depths within the facility were up to 0.7m sufficient to damage all vulnerable equipment on the factory floor including CNC machines, shot blasters and industrial saws as well as the onsite substation and boiler room.

The estimated maximum loss for the facility in the event of a flood was calculated to be £12,000,000.00.

Project Outcome

The site was situated in a low-lying bowl where the nearby river ran on the northern perimeter. On all other perimeters, except the northern, the site was bordered by higher ground above the flood level. The northern perimeter of the asset was of steel frame construction with aluminium clad superstructure and therefore not a suitable construction to waterproof.

The most practical measure, given the structurally manageable flood depth of 0.7m, was to construct a solid wall on the northern perimeter of the asset tying into the high ground at either end. This would prevent inundation from the predicted flood level from the nearby river.

The cost estimate for the works was £60,000.00 with the insurers offering flood cover on the condition that the proposed remediation works were implemented.



Client

Major Insurance Company

If you would like further information on our service please get in touch on
01792 722321 or visit our website www.floodconsult.co.uk

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