

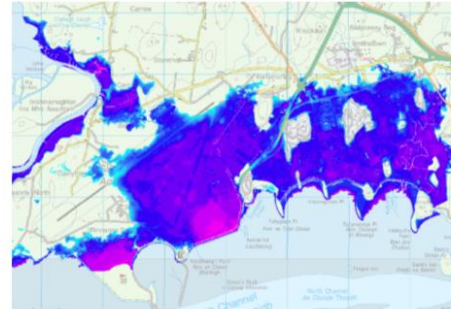
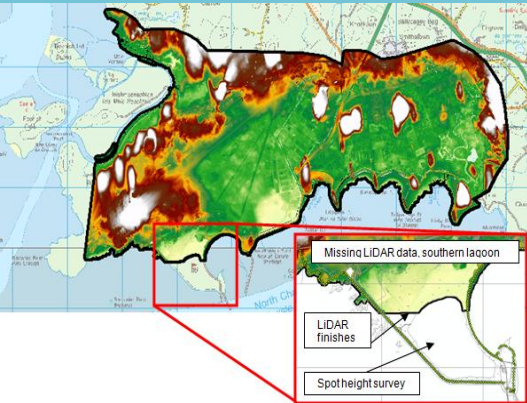
Shannon Town Coastal Flood Study

Contract Brief

Shannon Town, the Airport and its environs are protected against the risk of coastal, fluvial and surface water flooding by a network of defences and associated drainage improvements.

The Clare County Development Plan (2011-2017) includes coastal and fluvial flood hazard mapping. In accordance with the Planning System and Flood Risk Management Guidelines, the basic hazard mapping does not include the benefits of flood defence structures.

To improve the understanding of flood risk in the Shannon area further detailed mapping is required to fully consider the existing flood defence infrastructure.



Map A:
Un-defended Flood Depth
for a 0.1% AEP flood event



Map B:
Defended Flood Depth
for a 0.1% AEP flood event
with defence overtopping

Objectives

The study has assessed the benefits of the Shannon Estuary defences through the analysis of Extreme Still Water Sea Levels (ESWSL) and the modelling of defence overtopping, with the inclusion of Climate Change.

A brief review of existing drainage information to inform the scope of further detailed flood modelling work in the Shannon Town area has also been conducted.

The key deliverable for the study is the provision of a defended coastal flood outline for Shannon, which allows Clare County Council to appropriately consider flood risk in the application of the Sequential and Justification Tests, as well as assisting in future development plan making decisions for the Shannon Town area.

Outcomes

The Shannon Estuary Flood Defences are critical to the protection of Shannon Airport and Shannon Town. As such, the Shannon area has been shown to benefit greatly from the Shannon Estuary flood defences under current climatic conditions.

The flood maps produced by this study are now used in the assessment of flood risk by the Planning Authority and are of significance to the asset system management programme of the defences themselves.

Careful monitoring of sea level rise is required and the embankments are suitable for future increases in crest height to protect against future sea level increases.

The study informed the preparation by the Planning Authority of the Shannon Town and Environs Local Area Plan 2012-2018.

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