

WEST RHYL COASTAL DEFENCE SCHEME SCHEME

Martin Wright Associates

Coastal and flood risk management engineers

CATEGORY

Coast Protection and Flood
Alleviation

KEY FEATURES

Project Appraisal Report

Wave/Hydrodynamic/Sediment
Modelling

Detailed Design – Rock armour
defences and stepped
revetment

Environmental Impact
Assessment

CDM-C

Project Management

Engineering Design

New Approaches to Flood Risk
Management

Site Supervision

PROGRAMME

Commencement – June 2009

Planned completion – April
2013

CONTRACT VALUE

£10.4 Million

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WEST RHYL COASTAL DEFENCE SCHEME

Rhyl is situated on the Liverpool Bay coastline of Denbighshire and is flanked by the River Clwyd to the west and the Prestatyn frontage to the east. The coastal defences across the frontage vary in their design and age with the oldest being some 110 years old and the most recent some 60 years old. The current promenade retaining wall to the east of the Foryd Bridge and the training groyne to the east of the River Clwyd channel are displaying signs of fatigue, which could potentially lead to a breach, causing extensive flooding in Rhyl.

In 2008, Welsh Assembly Government successfully bid for £30 million of European Convergence Funding for a Strategic Flood and Coastal Risk Management Project. To deliver the Project, WAG invited proposals for schemes and in January 2009, Denbighshire County Council (DCC) was informed that their bid for the West Rhyl Coastal Defence Scheme had been successful. Subsequently in June 2009 MWA, in Partnership with Cascade Consulting, ABPmer and Aecom, were appointed to develop and design the project.

The scheme includes undertaking the engineering design, all coastal processes assessments, preparation of all environmental reports, planning and consent applications for the scheme and construction supervision. The scheme will reduce flood risk for up to 2,500 properties within the low lying areas of Rhyl. The design addresses a 1 in 200 year storm event with 100 years of climate change.

The scheme proposals will see the construction of sheet piled and rock armour structures within the harbour and training wall areas, whilst providing an attractive promenade to the east, fulfilling the function of a coastal flood defence. It is envisaged that the promenade will create a unique sense of place and a source of pleasure and pride among residents.

