



PROJECT EXPERIENCE

DUBLIN DOCKLANDS DEVELOPMENT AUTHORITY INSPECTION & STRUCTURAL ASSESSMENT OF LIFFEY RIVER QUAY WALL

CEI Collins Engineers Ltd. undertook the above water and underwater inspection of 3200 m of quay wall for Moylan Consulting on behalf of Dublin Docklands Development Authority (DDDA). The inspection was conducted by a team of engineer-divers experienced in the inspection of underwater structures and waterfront facilities.

This consisted of a detailed inspection and condition survey of the masonry and concrete protected structure between East Link Bridge and Matt Talbot Bridge. Plumb surveys of the wall were also conducted along with probing of the wall below the channel bed level to determine the extent of the wall to foundation. A full photographic survey of the wall above low water level was also required.

Underwater acoustic imaging of representative sections of the wall and adjacent channel bottom were carried out to show the owner exactly what the engineer-diver felt and observed below water.

Collins then prepared a Chartered Engineer's detailed inspection report which included the inspection findings, condition ratings of each section of wall, repair recommendations and cost estimates. This was accompanied with a full list of all defects identified and drawings and photographs of elements both above and below water.

Collins also prepared tender documents and undertook the contract administration and supervision of the cleaning of the quay walls on behalf of DDDA.