



## PROJECT EXPERIENCE

### DEPARTMENT FOR REGIONAL DEVELOPMENT (DRD) ROADS SERVICE UNDERWATER INSPECTION OF 93 STRUCTURES

DRD Roads Service has awarded CEI Collins Engineers, Ltd. a two year framework contract for underwater inspections and condition surveys of 93 bridges throughout Northern Ireland from 2008 through 2010. The inspections comprise recording all pertinent dimensions, a visual and tactile inspection to 1m above high water level, recording any defects in structure material, surveying the channel bottom, noting any evidence of scour near the substructure elements, and soundings to 20m upstream and downstream of the bridge.

The results of each inspection are provided in a detailed underwater inspection report that includes drawings, photographs, soundings, defect locations and extent, and channel bottom conditions including any noted scouring.

Project elements include:

- 93 bridges
- Structures are composed of steel, concrete, masonry, and timber material
- Underwater inspections are conducted using SCUBA and surface supplied air diving equipment
- Several inspections are conducted in locations with high currents and some partially restricted areas

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