

PROJECT INTRODUCTION Queensferry Crossing Bridge

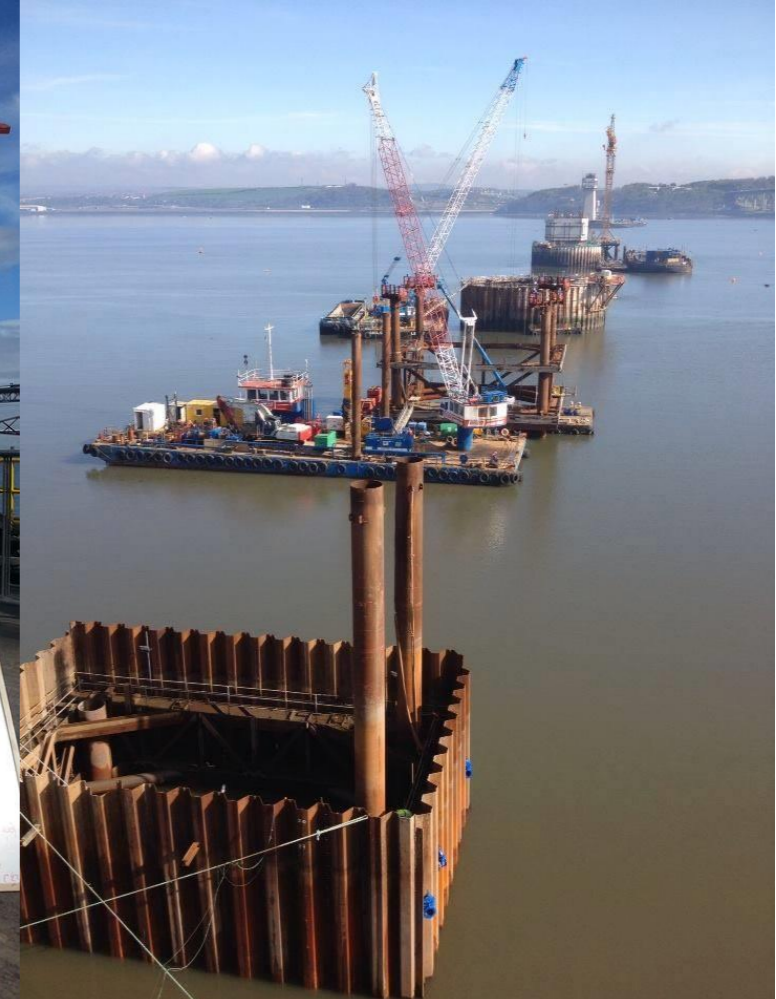
In 2005 the Forth Road Bridge was investigated and it was found that the cables had a reduction in strength of around 10%. As this crossing was a vital connection for Scotland it was decided to build a new cable stayed bridge on the alignment on the west of the existing bridge. This new Queensferry Crossing was the replacement of the Forth Road Bridge. DCN Diving was contracted by Forth Crossing Bridge Contractors (consortium made up of Dragados, Hochtief, American Bridge International and Morrison Construction) for dive support and underwater concreting of the construction of the bridge supports /foundations.

CLIENT

Forth Crossing Bridge Contractors

DISCIPLINE

Civils, Underwater Concreting, Caissons, Dredging



OUR EXPERTISE



Air and Sat Diving



Hyperbaric / Wet Welding



ROV Operations



DSV Supply



Subsea Engineering



Subsea NDT IRM



Creating Dry Space UW



Underwater Concreting



DCN AT A GLANCE



OPERATIONS

Worldwide with a focus on North Sea, WAF, UAE and SE Asia.
Offices in the Netherlands (headquarters), UK, Germany, Abu Dhabi, Singapore and Kuala Lumpur.
Bases in the Netherlands, Abu Dhabi and Singapore.



CERTIFICATION

ISO 9001 – 2015,
ISO 14001 – 2015,
ISO 45001:2018.
SCC / VCA**
FPAL (Verified)
IMCA
In-water Survey Certification



HSE

Strong dedication on ZERO harm to people and environment.
LTIFR- 0 (IMCA 0,42)
TRIR – 0,72 (IMCA 1,67)
FAR – 0 (IMCA 0,93)
Env. 5L – 0 (IMCA N/A)



PEOPLE

90 FTE's including 32 supervisor / divers.
Flexible group of core freelance personnel.
Focus on inhouse development, knowledge sharing / training / lessons learned.



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PROJECT

Queensferry
Crossing Bridge

LOCATION

Scotland

WATER DEPTH

40msw maximum

PROJECT DURATION

2012-2014

System

Mobile Air Diving
Spread, Underwater
Concreting patented
tooling

SCOPE OF WORK

The scope of work was but not limited to the following activities:

- Mobilization of multiple Diving Spreads including pontoons and supporting equipment.
- Assistance with caisson deployment.
- Removal of sediment.
- Further diving preparations for the provision of underwater concreting including H.P. waterjetting, airlifting, under water cutting and welding and inspections.
- Underwater concreting of 5 x bridge supports where 3 of them had a water depth of 40 meters and 17.000m3 of concrete was poured per bridge support and 2 x smaller bridge supports with around 5.000m3 of underwater concrete poured per bridge support.
- Final survey.
- Demobilization from site.

CONTRACT VALUE

4 MLN EURO



PROJECT ACHIEVEMENTS

- ✓ NO ENVIRONMENTAL SPILLS
- ✓ **NO PERSONAL ACCIDENTS**
- ✓ POSITIVE CUSTOMER FEEDBACK
- ✓ **A WORLD RECORD OF 16.866M3 UW CONCRETE POURED IN 273 HOURS**
- ✓ TOTAL OF 61.000 M3 UNDERWATER CONCRETE POURED

