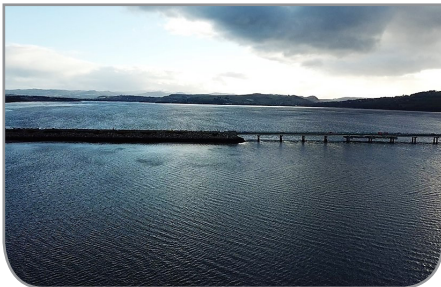


## A9 Cromarty Phase 2 Refurbishment

A9 1360 Cromarty Bridge, Scotland

**Client**  
Transport Scotland  
**Principal Contractor**  
BEAR Scotland  
**Designer**  
Jacobs  
**Works Commenced**  
September 2017  
**Works Completed**  
April 2018



The A9 Cromarty Bridge opened in 1979, measuring 1464 metres and comprising of 68 simply supported spans. Essential maintenance repairs were required to the structure including concrete repairs, cathodic protection and expansion joint replacement.

Freyssinet was engaged as specialist subcontractor on Phase 2 of the refurbishment works, responsible for design advice and all site works for Principal Contractor BEAR Scotland.

Freyssinet carried out the following:

- Traffic management installation to accommodate construction sequence
- Planing surfacing and sand carpet
- Removal of footway (concrete and kerbs)
- Hydrodemolition
- Hydraulic jacking and replacement of 30no elastomeric bearings
- Steel reinforcement
- Concrete repairs
- Installation of Impressed Current Cathodic Protection (ICCP) system, carried out by Freyssinet sister company Corrosion Control Services Limited (CCSL)
- Concrete sprayed overlay
- Installation new waterproofing system
- Reinstatement of footway
- Replacement expansion joints
- Surfacing

The works were carried out in an aggressive marine environment, and as such Freyssinet took the necessary measures to comply with the conditions laid out within the Scottish Environment Protection Agency (SEPA) Water Use Licence CAR/S/1154021 and marine license as issued to BEAR Scotland.

Freyssinet installed a bespoke suspended platform suitable for work in marine environment to enable the structural repair works, hydrodemolition and installation of the cathodic protection system.

The platform contained the debris and contaminated water, with the water continuously pumped out onto the top of the bridge deck and treated prior to being transported and discharged into a licensed waste location.

An electric hoist was also used to remove and bring up debris contained in the platform to the top of the bridge deck.

Multiple environmental inspections were carried throughout the duration of the works by the Client to confirm that all activities were undertaken in compliance with environmental regulations.