

Whiteadder Roadbridge, Berwick

UK



Country: United Kingdom
Timescale: January-April 2007
Structure: Single Carriageway Bridge
Over Estuary
Client: Northumberland County
Council
CPT Treatment used: DuoGuard™
Hybrid Anode™ System



Whiteadder Bridge carries the B6461 over a tributary flowing into the River Tweed. The bridge deck joints had been leaking for some time depositing chloride contaminated rain water onto the large piers and abutments supporting the structure.

Problem

Substantial areas of spalling/loose concrete were visible along with salt deposits in certain areas. In addition to the main substructure, specific areas of the underside of the bridge deck had had been contaminated with significant levels of chloride salts.

Solution Developed

DuoGuard 500 hybrid anodes were applied to the contaminated piers and abutments to counter the effects of the remaining chloride salts. This targeted approach offers a cost effective solution to corrosion control on reinforced concrete structures.

Benefits

With the use of a Solar Panel and modem communication, data from the DuoGuard 500 Installation can be downloaded at any time and measurements can be instigated without the need to travel to site.



CPT Products Used:

- ◆ DuoGuard™ 500
- ◆ DuoCrete SD Mortar
- ◆ MN15 Ref. Electrodes
- ◆ GAN 1 monitoring system

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