

A1123 Earith Bridge

Cambridgeshire

Client
Freyssinet Limited
Principle Contractor
Skanska
Contract Value
£70,000
Work Commissioned
February 2014



The scope of the cathodic protection works was to supply, install, commission and then monitor a system to a design developed by the client's representative Atkins/Cambridgeshire Highways.

The deck end halving joints were suffering from delaminated concrete and reinforcement corrosion caused by chloride contamination.

All works beneath the deck were carried out from a pontoon situated in the river, as scaffold was not permitted to be erected due to the river traffic. The bridge was closed to traffic to allow the works to be carried out on top of the deck.

Once repairs were completed, an impressed current cathodic protection (ICCP) system was installed. This comprised of two anode types, Chemical Newtech discrete anodes installed into drill holes and Chemical Newtech ribbon anode mesh installed into saw cut chases. The structures repaired and protected comprised the east and west halving joints; anodes were installed into the top of the deck, the deck soffit, and the adjacent beam ends, each joint was divided into three separate anode zones. The remote monitoring and control system was developed by Advitam France in conjunction with CCSL.

The ICCP system was commissioned on February 2014 and will be monitored by CCSL for a period of 56 weeks.

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