

Condition Investigation – Case Study

A1 Structures

Ian Farmer Associates were appointed by a national contractor to carry out concrete condition surveys on four bridges situated within the A1 Dishforth to Barton improvement scheme.



The survey consisted of destructive and non-destructive testing of the bridge decks and soffit.

Survey works included a full delamination and soundness survey, full half cell potential survey, full cover meter survey, resistivity survey, carbonation depth and selective locations for dust sampling which depended on half cell potential readings.

Dust samples were chemically analysed to BS:1881 standards to determine the concrete constituents and chloride levels at specific depths within the concrete element.

Factual reports were compiled from the survey and laboratory results, which included contour plots of half cell potential readings and tabulated results of findings.

Reports were issued to the client to assist in the remediation works on each bridge surveyed.

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