AW Corrosion Solutions

bam nuttall

Fishersgate F/B BLI1 440 condition survey

Project	*IP Sussex Building & Civils MFF Framework*	***Date***	*27-04-2015*
Location	Portslade	**Client**	BAM Nuttall
Structure	Footbridge F/B 440	**Surveyor**	L Wade Senior Coatings Inspector
Survey Requirements	NR/L3/CIV/040 – Appendix A Procedures for coating and corrosion surveys	**Contact**	[redacted]
Document Reference	AWC/FGFB/01	**Signed**	[redacted]

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ADUR & WORTHING
PLANNING SERVICES

PLAN AWDM/ 1603/15

DATE VALID - 3 NOV 2015

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Location and environment of structure

Gardner Road, Portslade, Brighton, East Sussex, BN4 1LJ





Environment as defined in **BS EN ISO 12944-2 C5 Coastal**

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Description of protective treatment requirements

Carried out maintenance painting to the structure to provide an extend life to first major maintenance of 15 years

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Survey findings

The structure is located between a housing estate and industrial estate, during the visit pedestrian flow was high with both public and school children

The structure has had previous full (grit blasted) maintenance painting carried out, this was likely to be during the SRP contract 16-18 years ago, like many of these structures there has been a colour change but unfortunately not using the appropriate coating type and much of the applied 'green' is detaching

The structure on first viewing appears to be in fair condition but there is significant coating breakdown on stringer cleats and connection points, coupled with this there is significant section loss throughout

The structure has recently had new galvanised service ducts installed





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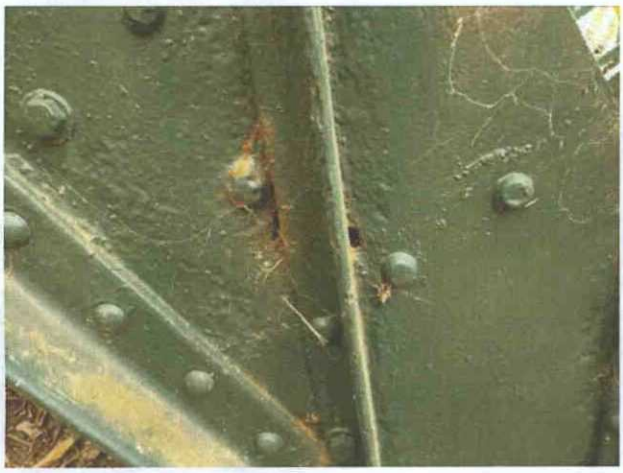




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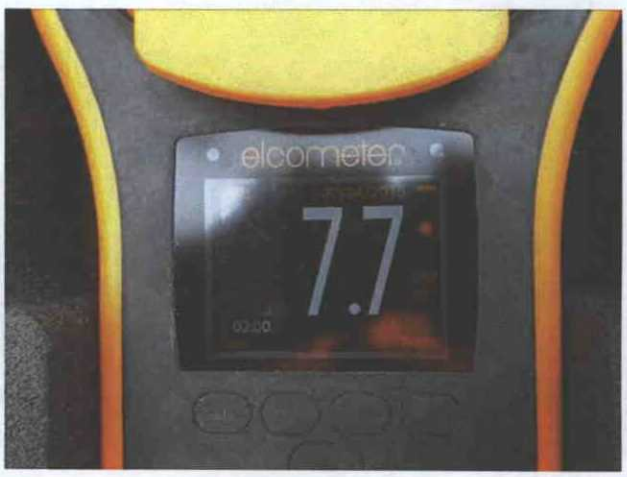
Soluble salt levels

Three locations were chosen to carry out the testing and the results and testing can be seen pictured below



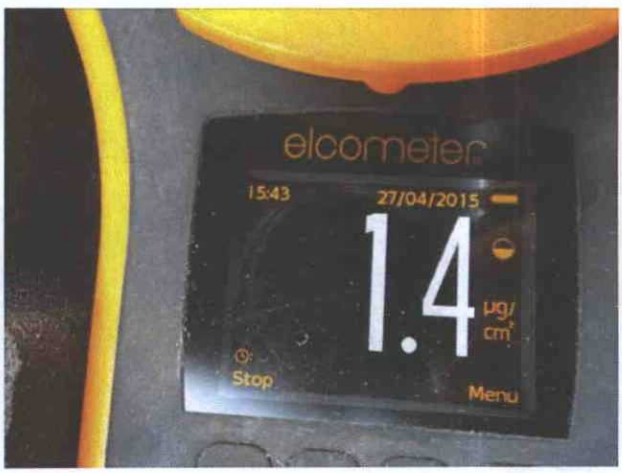






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A target figure of 4µg/cm² is the requirement within NR documentation, the results above show that the soluble content is currently both below and or above that limit

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Dry Film Thickness of existing Coatings

These range from 150µm to 420µm

Lead

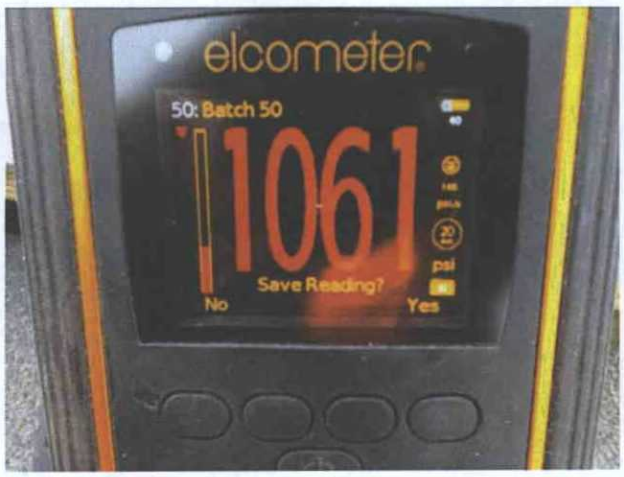
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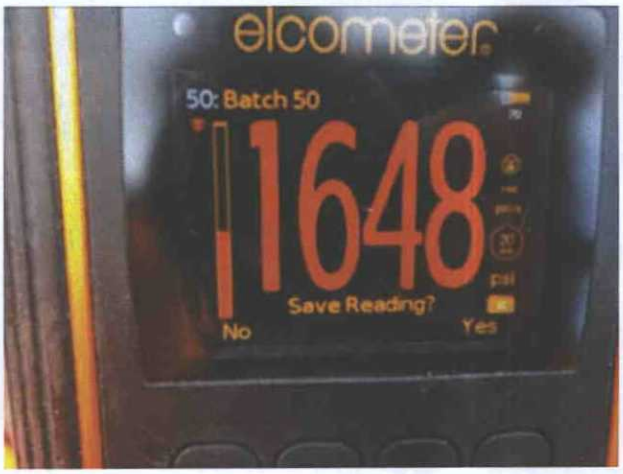
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Adhesion of existing Coatings

Adhesion testing was carried out in two typical condition locations, the adhesion testing was undertaken using 'dollies' glued to the paint coating and pulled off using a HATE gauge, the testing results can be seen below

Both results show good adhesion with the mode of failure being glue, the dollies were glued on the 'original coating' (green paint removed)





Fishersgate F/B BLI1 440 condition survey

Summary of findings

Although currently the footbridge looks to be in fair condition there is a significant level of steel work required which will be the project driver

The coating where intact is in good condition, however to carry out the steel works correctly the coatings will need to be stripped off to find the actual extent of steel works required

From the visit and survey the initial options I feel should be considered are:

Full encapsulate and remove all existing coatings, carry out required steel repairs / replacement and apply XM92 M21

Replace structure

A review of the latest assessment coupled with available possessions may help with the choice of options

Lee Wade
Senior Coatings Inspector
AW Corrosion Solutions Ltd
Inspection & consultancy