

INSPECTION DEPARTMENT
DEFECTIVE AREA ON CONCRETE SOFFIT. C/BEAMS 58-59 N/E VIADUCT.
DATE. 06/04/10

Following a meeting with ESM. C.Tracey. which was attended by bridge inspectors, a request was made to carry out a special inspection of an area of discoloured concrete located on the carriageway deck soffit between crossbeams 59-60 on the north east viaduct.

The area on the deck soffit was inspected visually, approximate measurements were taken. Heavy veinular cracking was evident with signs of salts (formed stalagtites and surface powder were clearly evident over two transverse cracks approx 600 mm apart). No longitudinal cracking evident at time of inspection. Area dimensions as per photographs.

A hammer ring test was carried out over the majority of the damp /discoloured area with no indication of any sub- surface hollow or honeycombed concrete evident.



Approximate area
dimensions of
discoloured area on
deck soffit .



Two transverse cracks evident at
affected area. Salts being
discharged to deck soffit area.

Stalagtites beginning to form.

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Transverse epoxy mortar repair
carried out pre- 1990



Salts being discharged
from transverse cracks.

Stalagmites evident.



Another view of Transverse
crack with Salts being
discharged.

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