

CASE HISTORY

Godineaux Steel Truss Bridge Restoration



DATE

August 2009 - October 2010

DISTRIBUTOR & CONTRACTOR

Corrosion & Environmental Services LTD.

CUSTOMER

Ministry of Works and Transport, PURE

LOCATION

Mosquito Creek
Oropouche, Trinidad

PRODUCTS

VpCI®-396
VpCI®-386 Orange
MCI®-2023
MCI®-2020
MCI®-2039
MCI®-2021

PROBLEM

Inspection of the 50 year old bridge indicated that the concrete deck had deteriorated and one of the beams was corroded to the point of no longer supporting it. Diagonal members on both the eastern and western ends of the bridge were also badly damaged by high vehicles on separate occasions and needed to be replaced. Further structural assessment also revealed that some of the main beams and trusses were overstressed by as much as 200%. These findings, as such, led to the conclusion that bridge collapse would be imminent if significant repair works were not undertaken.

APPLICATION

Cortec® Corporation's Migrating Corrosion Inhibitors (MCI®) were used to rehabilitate the concrete bridge deck and High Performance VpCI® Coatings were used for repainting the entire steel structure.

CONCLUSION

With the Godineaux Bridge now restored and improved, its service life should continue far beyond another 50 years.

