

Hay Point , Queensland



Australia

Country: Australia

Timescale: June 2013—Oct 2014

Structure: Hay Point Coal Terminal

CPT Treatment used:

DuoGuard™ Hybrid Anode™ System



The Hay Point Coal Terminal is used for the export of coal mined in Mackay, Queensland. The terminal consists of Twin berths, Berth 1 and Berth 2.

Problem

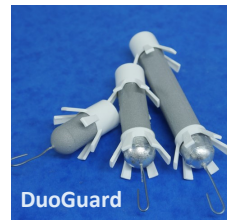
The Investigation works carried out on the structure showed that the Kentledge Beams supporting the jetty of Berth 1 were suffering from chloride-induced reinforcement corrosion.

Solution Developed

The DuoGuard Hybrid System consists of an initial Impressed current phase which passivates the corroding reinforcing steel within the structure. The system is then put into the second, galvanic phase to maintain the steel in a passive environment. Over 8000 DuoGuard Hybrid Anodes were installed to the Kentledge Beams of Bays 1-7 and 12-18 .in this case.

Benefits

The corrosion protection system was designed to ensure an extended 25 years of jetty service. MN15 reference electrodes were also installed for continuous monitoring of the system , with the facility to determine steel corrosion rates.



CPT Products Used:

- ◆ DuoGuard™
- ◆ DuoCrete SD Mortar
- ◆ MN15 Ref. electrodes

Amount of Anodes:

8000

For technical and sales support please contact us at;
Concrete Preservation Technologies Ltd,
Unit 1, Palmer Business Court
Manor House Road,
Long Eaton, Nottingham,
United Kingdom, NG10 1LR

t: +44 (0)115 9724 238
f: +44 (0)115 9220 316
www.cp-tech.co.uk



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