

# Hay Point, Queensland, Australia

**Country:** Australia

**Project Timescale:** June 2013—Oct 2014

**Structure:** Hay Point Coal Terminal

**CPT Treatment Applied:**

DuoGuard™ Hybrid Anode™ System

**CPT Products used**

- 8000 DuoGuard™ anodes
- DuoCrete SD Mortar
- MN15 Reference Electrodes



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. 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.

Over 8000 DuoGuard Hybrid anodes were installed to the Kentledge Beams of Bays 1-7 and 12-18. To allow for continuous monitoring of the system, MN15 reference electrodes were installed at 5 representative locations, with the facility to determine steel corrosion rates as requested by the client.



The corrosion protection system was designed to ensure an extended 25 years of jetty service. 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.

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**DuoGuard Anodes**