

Dampier Salt Dolphins



Western Australia

Country: Australia

Timescale: Spring 2011

Structure: Dampier Salt Dolphins

Client: Rio Tinto

CPT Treatment used:

DuoGuard™ Hybrid Anode System



Dampier Salt Dolphins are located near to Mistaken Island which is approximately 5 kilometres south east of Albany, Western Australia. Dampier is the world's largest exporter of high quality solar salt. Dolphins are used to facilitate the docking of large ships

Problem

Dampier Salt Dolphins were suffering from steel reinforcement corrosion due to exposure to high concentrations of chloride and moisture at elevated temperatures.

Solution Developed

CPT installed over 1700 DuoGuard 500 anodes in the two month installation project. A generator was used to provide power for the one week impressed current phase. A barge with a crane was used to ferry the scaffolding and heavy equipment to the work site. The barge also carried the sprayed concrete machine during placement on the exterior of the dolphin.

Benefits

The CPT hybrid anode treatment was chosen over an impressed current system due to the cost of obtaining and operating a permanent power supply on site. In addition, the short-on site treatment minimises down-time and disruption.



DuoGuard



Ref. Electrode

CPT Products Used:

- ◆ DuoGuard™ 500
- ◆ DuoCrete SD Mortar
- ◆ MN15 Ref. electrodes

Number of Anodes used:

1700

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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