



Materials and Asset Engineering

Controlling corrosion in difficult environments

Specialised knowledge of materials performance, particularly concrete and steel, is key to the success of infrastructure projects.

Whether working with clients in rail, in mining and resources, in water, in highways, or even in ports, we use this knowledge to help them to achieve their desired outcome in terms of cost, programme, risk and quality.

Our worldwide experience covers a wide variety of asset types such as buildings, car parks, bridges, tunnels, water treatment works, desalination plants, industrial facilities, ports and harbours, coastal and river defences, and airport and highway pavements.

We deal with maintenance issues for many different construction materials: concrete, metals, plastics, masonry, grout, coatings, ceramics and timber.



Our services

Our team offers specialist corrosion management services related to corrosion prevention and corrosion control of assets, including concrete and steel structures where the protection often requires the use of supplementary systems such as corrosion resistant materials, coatings and cathodic protection or cathodic prevention systems.

■ Cathodic protection/prevention

- detailed design for galvanic and impressed current cathodic protection systems
- detailed specifications for design and build contracts
- third party design review
- installation audit, supervision, commission and support services
- commission, testing, monitoring and operation
- system audits and fault finding
- cathodic protection to reinforced concrete structures, historic steel frame structures and submerged or buried metallic structures.

■ Materials

- corrosion resistant material selection and specification
- corrosion and material failure investigation and assessment
- fabrication design for corrosion control and prevention
- stray current assessment and control
- corrosion audits and life extension programs
- ALWC inspection, assessment and mitigation
- soil corrosivity assessment.



■ Protective Coatings and Linings

- detailed coating and lining specifications for metallic and concrete structures
- installation audit and quality control services
- coating failure investigation and assessment.



Why Halcrow?

We have been working for clients throughout Australia, New Zealand and the Asia-Pacific region since 1993. We have offices in Sydney, Melbourne, Brisbane and Perth.

At Halcrow we pride ourselves on our strong local delivery capability and client focus. However, when you work with Halcrow you also draw upon our global skills, expertise and experience.

And because we are now part of global engineering and program management company CH2M HILL, we have an even wider range of services to offer our clients.



Contact us

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