

> WATER INDUSTRY PROTECTIVE COATINGS
CAPABILITY



INCOSPEC 
CORROSION ENGINEERS

Conformance. Compliance. Reassurance





ABOUT US

Since 1981, Incospec have been providing expert consultancy in the field of Corrosion Engineering to all corners of Australia and overseas. We are a wholly Australian owned and operated company.

We have offices in Brisbane, Sydney, Darwin, Melbourne, and Adelaide. When retaining Incospec to undertake inspections and analysis, you are retaining the largest team of full-time coating inspectors and consultants in Australasia.

Our experience in the industry has repeatedly proved to us and our clients that independent coating inspection is a value-adding exercise that ensures that our clients' durability expectations are met and exceeded.



INDEPENDENCE

A fully-independent organisation, Incospec is not aligned to any coating supply or application companies. This gives us the opportunity to offer totally unbiased advice. We are also able to use this independence in areas of conflict resolution and failure analysis.



ACCREDITATION

Incospec coating division is a **NATA** accredited inspection company (no. 19849), subject to audit and evaluation by this esteemed body.

All of our coatings inspection and consultants are trained to the **NACE CIP** standards of accreditation. We are also a registered corrosion consulting group with the Australasian Corrosion Association.



Experience. Independence. Excellence



PROJECT CAPABILITY

Independent Coating Inspection
Condition Assessment
Repair Prioritisation
Specification Development
Specialist Access
Failure Analysis
Contractor Auditing
Inspection and Test Plans
Training
Expert Witness

➤ TESTING CAPABILITY

Surface Preparation

Surface Profile inspections

QA/QC System auditing

Dry Film Thickness testing

Continuity Testing

Cure Testing

Wet Film thickness testing

Concrete Cover depth

Chloride Ingress

Surface Contamination testing

Equipment Auditing

Environmental readings

Adhesion testing

Abrasive media testing

Hardness testing

Moisture testing

Concrete Carbonation



Qualified. Analysed. Certified



> SPECIALIST ACCESS CAPABILITY

Incospec and its partners are proud to offer drone inspections and photography for coating and condition assessment/survey projects.

Utilising RPAs (Remotely Pilot Aircraft) allows us to inspect assets in a safer, faster and more cost-efficient way. UAVs or 'drone' technology has moved very quickly over the last few years and is now becoming a commonplace technology for undertaking condition assessments, sampling, scanning and commercial photography.

The benefits of using drones for certain projects include:

- Reduced OH&S risks for staff
- Faster setup times
- Faster survey times
- Reduced client costs for scaffolding/EWP/Rope access teams
- Ability to continue work during poor weather conditions
- Improved access and perspectives to assets
- Significant increase in types of data that can be collected such as:
 - Thermal imaging
 - Volumetric calculations
 - Surface modelling/contouring
 - 3D modelling
 - Air/water/soil sampling



WATER PROJECTS

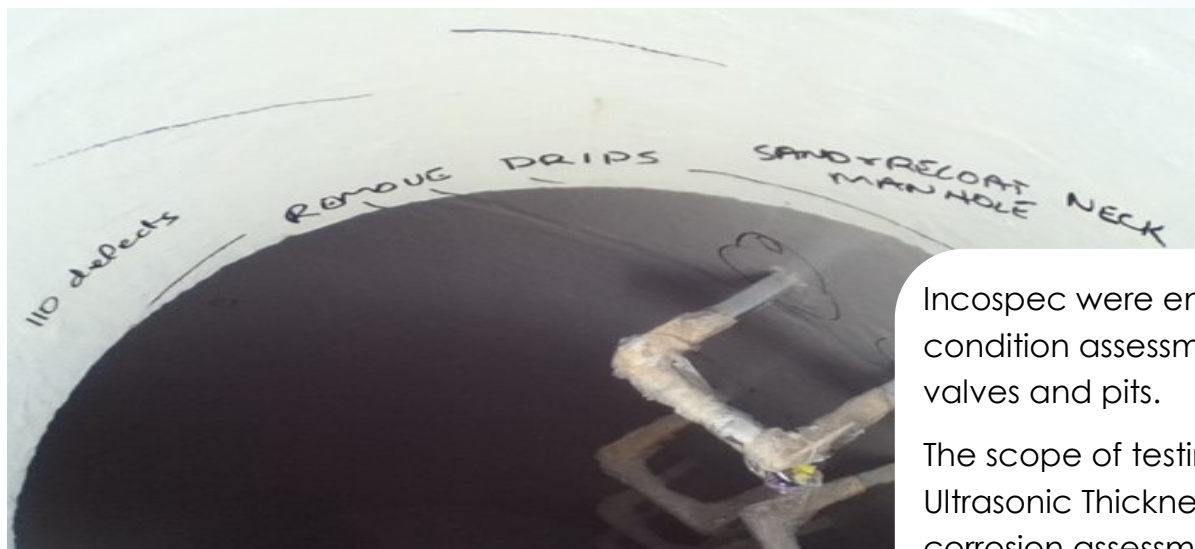
PALMERSTON WATER TOWER (VIC/NT) 2015

The Palmerston South Elevated Water Tank is a newly-built water storage tank to ensure the suburbs of Bellamack, Zuccoli, Roseberry, Johnston and Palmerston South have security of supply. It has the capacity to store four mega litres of water and has been built to withstand cyclones and earthquakes with the steel structuring standing at 36 metres high, making it one of the largest elevated water tanks in the country.

Incospec have been engaged to provide witnessing and inspections on site for corrosion protection, blasting and coating of repairs on the internal wall of the central column and external main cone.



BRISBANE WATER TRUNK MAIN PITS (QLD) 2015

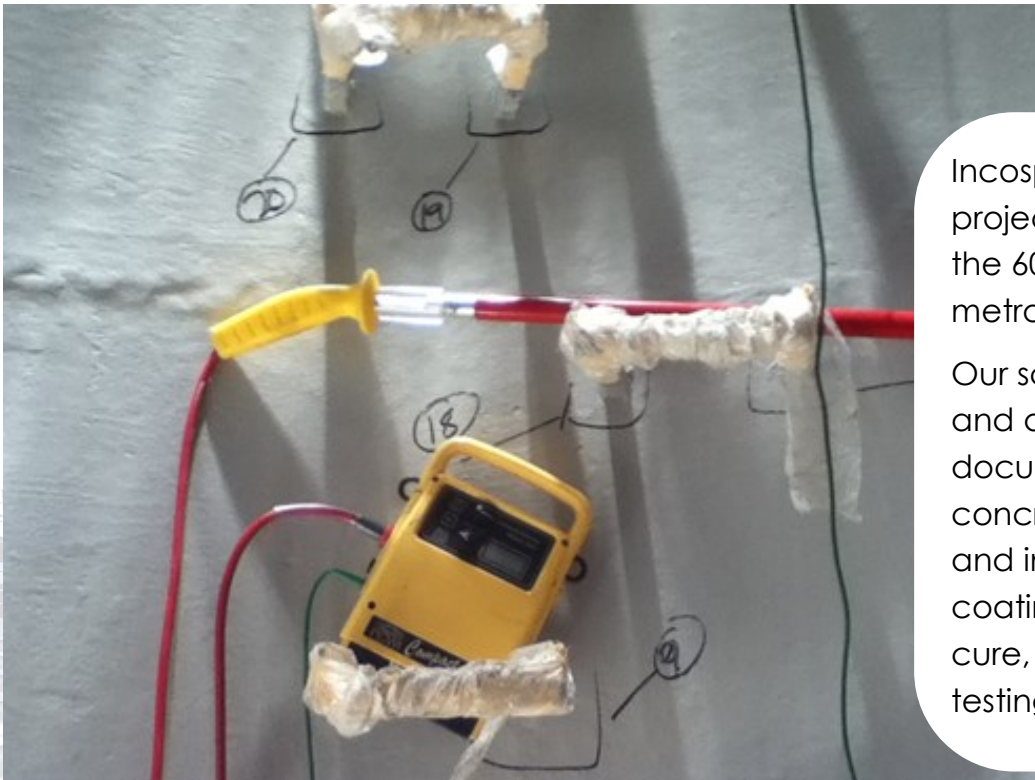


Incospec were engaged to undertake condition assessments on trunk main valves and pits.

The scope of testing included:
Ultrasonic Thickness testing of valves,
corrosion assessment, existing coating
assessment and durability calculations.

> WATER PROJECTS

SYDNEY WATER MANHOLE RELINING (NSW) 2014



Incospec were awarded the project to oversee the relining of the 60+ manholes in the Sydney metro area.

Our scope included the review and audit of contractor QA documentation, inspection of all concrete surface preparation and inspection of the applied coatings (visual, DFT, hardness, cure, adhesion and holiday testing undertaken).

EDWARDS RD WATER RESERVOIR, BALLARAT (VIC) 2014

Incospec were appointed to oversee maintenance coating activities by Veolia Water.

Over a 6-week project period, one of our NACE level 3 coating inspectors represented Veolia Water to ensure contract and specification compliance for a full tank internal refurbishment.



➤ WATER PROJECTS

DIGESTER #5—BOLIVAR WWTP (SA) 2013

Incospec were engaged to conduct third-party coating inspections at key hold point intervals throughout the refurbishment of the digester roof.

The coating contractor prepared surfaces by wet abrasive blasting during a cold and wet Adelaide winter, increasing flash rusting times.



GWM WATER—DAFF TANKS (VIC) 2013



Incospec were engaged by GWM Water to conduct third-party coating inspections on maintenance coatings being applied to the DAFF tanks across multiple rural Victorian sites.

Our scope included contractor auditing, surface preparation, coating application and adhesion testing.

> CONTACT

> Incospec Pty Ltd

Head Office

Level 1,
86-88 Melbourne Street
North Adelaide SA 5006

Postal

PO Box 7069
Hutt Street
Adelaide SA 5000

National Toll Free

1300 721 029

tel +61 8 8267 4744

fax +61 8 8267 4434

mail@incospec.com.au

www.incospec.com.au

ABN 93206390840



Adelaide. Brisbane. Darwin. Melbourne. Sydney

Metallurgy & Materials Consulting

3rd Party Welding Inspection

3rd Party Coating Inspection

Corrosion Consulting

Cathodic Protection

Investigation & Failure Analysis