

# Six Solutions



## CAPABILITY STATEMENT



POWER | PRESTIGE | PRECISION

# About Us

## Who We Are



Six Solutions is a majority Indigenous-owned Western Australian company delivering advanced structural repair and concrete remediation solutions across Australia's most demanding industrial and marine environments.

Built on a foundation of integrity, technical excellence, and cultural respect, we specialise in full-scope remediation — from initial condition assessment and demolition through to long-term rehabilitation and protection systems. Our projects span marine, mining, energy, defence, and infrastructure sectors where precision, safety, and reliability are non-negotiable.

We were founded with a clear mission: to raise the standard in concrete remediation by combining modern technologies, proven methodologies, and a highly skilled workforce who understand the value of quality craftsmanship.

At Six Solutions, we are agile, innovative, and results-driven — delivering sustainable outcomes that extend the life of assets, reduce client risk, and create meaningful opportunities for the Indigenous communities we represent.



# Core Capabilities



## Hydro-demolition

- UHP water jetting to 40,000 psi for precision concrete removal.
- Robotic and manual delivery for confined or complex access.
- Vibration-free process preserving rebar and substrate integrity.
- Integrated vacuum recovery and pH-neutralisation control.

## Surface Preparation

- UHP jetting, scabbling, and abrasive cleaning to CSP 2-10 / SA 2½.
- Removal of coatings, linings, laitance, and corrosion.
- Vacuum-assisted containment with pH and waste control.
- Delivers clean, bond-ready surfaces for recoating.

## Industrial Cleaning

- HP / UHP cleaning of tanks, vessels, and pipelines.
- Automated tooling for confined-space and process equipment.
- Removal of scale, residue, and hydrocarbon deposits.
- Rapid, safe shutdown and maintenance turnaround.

## Gunite & Shotcrete

- Wet and dry-mix spray application for structural repairs.
- Reinforced shotcrete for vertical, overhead, and marine works.
- High-density finishes using proven Guncrete E materials.
- Fast reinstatement with minimal formwork or downtime.

## Concrete Remediation (Form & Pour Repair)

- Structural concrete rehabilitation for critical assets
- Crack injection & delamination repair using epoxy resins
- Steel replacement & corrosion treatment (where required) to extend longevity
- Formwork & temporary works/shoring for complex geometries
- Pour-back reinstatement for slabs, beams, columns, walls & piers to structural tolerances
- Surface sealing, patching & finishing for durable performance

## Cathodic Protection Systems

- Design and installation of sacrificial, hybrid, and impressed-current CP.
- Compliance with AS 2832 / AS-NZS 2312 standards.
- Integration with structural repairs and coating systems.
- Long-term corrosion control for marine and industrial assets.

# Hydro demolition



Six Solutions delivers high-precision hydrodemolition using ultra-high-pressure (UHP) water systems up to 40,000 psi for controlled concrete removal and surface preparation.

Our process removes defective, contaminated, or deteriorated concrete while preserving sound substrate and reinforcement integrity. The result is a clean, profiled surface ready for reinstatement, with no micro-cracking or vibration damage typical of mechanical methods.

We deploy both robotic and manual systems to suit confined or complex access environments, including wharves, bridge decks, tanks, and structural components. Each operation integrates vacuum recovery, slurry containment, and pH-neutralisation management to maintain compliance with environmental controls and port authority regulations.



## Capabilities:

- Structural repair preparation (delamination and corrosion removal)
- Bridge decks, abutments, wharf slabs, and jetties
- Rebar exposure and coating removal
- Selective concrete removal for reinstatement or strengthening
- Robotic and manual hydro demolition
- Ideal for rework zones, rebar exposure, and load-bearing
- remediation

## Key Benefits:

- Non-impact, vibration-free removal method
- Zero dust emission and minimal noise
- Environmentally contained and fully recoverable process
- Precise depth and boundary control

# Surface Preparation

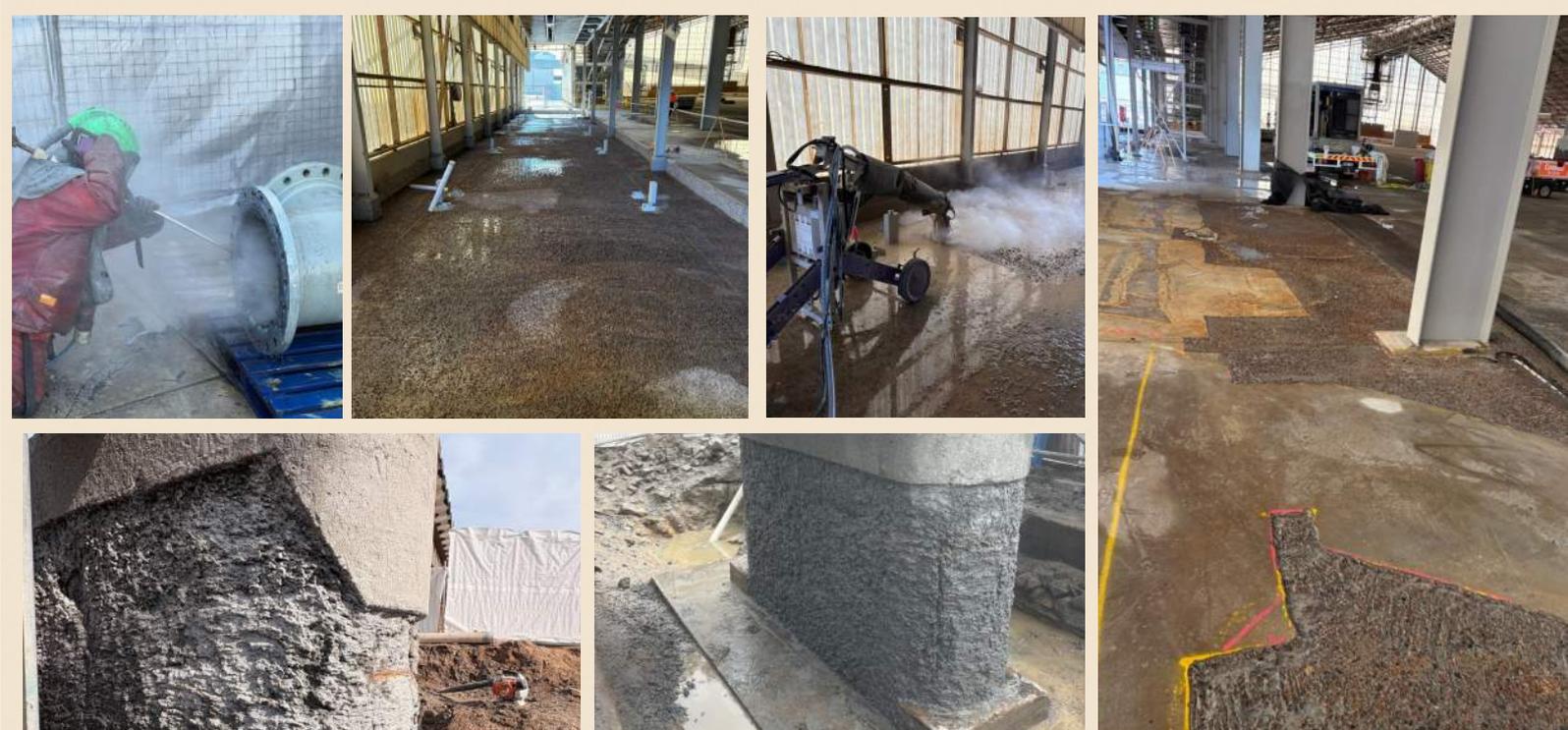


Six Solutions delivers advanced surface preparation services designed to meet the highest standards for adhesion, durability, and coating performance.

Using a combination of ultra-high-pressure (UHP) water jetting, mechanical scabbling, and abrasive cleaning techniques, we safely and effectively remove coatings, corrosion, and contaminants from both concrete and steel substrates.

Our UHP water systems operate up to 40,000 psi, capable of achieving any specified Concrete Surface Profile (CSP 2–10) or SA 2½ steel cleanliness rating. Each preparation method is carefully matched to substrate condition and coating specification to ensure long-term coating performance and structural integrity.

We specialise in both large-scale industrial coating removal and precision rework applications, including tanks, bunds, pits, marine structures, and confined spaces. All operations are performed under stringent environmental and safety controls, incorporating vacuum recovery, containment sheeting, and pH monitoring for total compliance.



## Capabilities:

- UHP coating/lining removal (epoxies, PU, polyurea, rubber, bitumen, vinyl esters)
- Laitance removal and scabbling prior to patching/overlays
- Rust and mill-scale removal on steelwork
- Bond preparation for new coatings and repair systems
- Confined-space preparation (tanks, pits, vessels)
- Profile verification and cleanliness testing

## Key Benefits:

- Dust-free, vibration-free, no embedded abrasive residue
- Minimises rework and coating failure risk
- Fully integrated containment, vacuum recovery and waste management

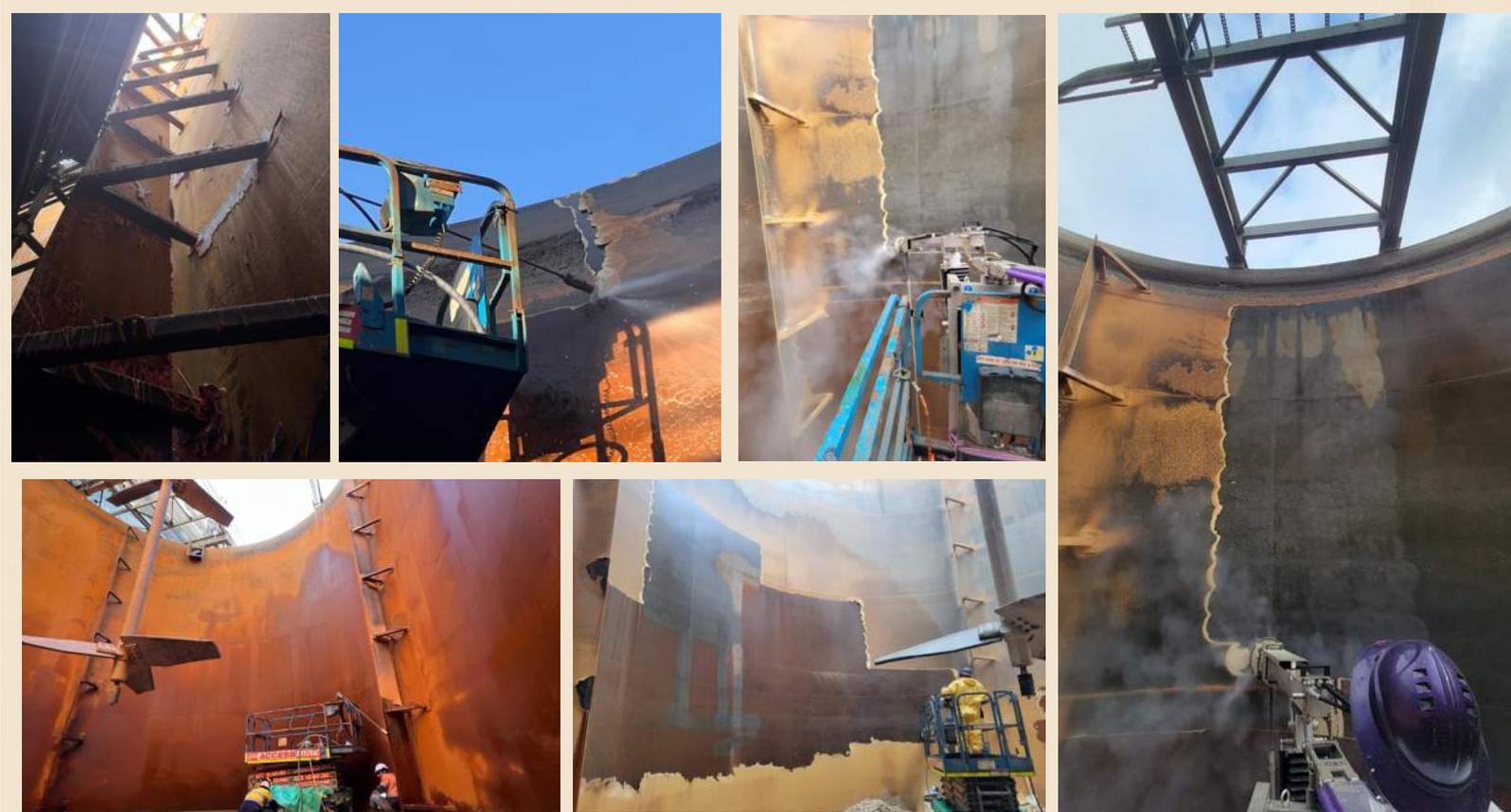
# Industrial Cleaning



Six Solutions provides comprehensive industrial cleaning and process maintenance using high-pressure and ultra-high-pressure water jetting equipment.

We service process tanks, vessels, pipelines, heat exchangers, and confined spaces through both manual and automated tooling systems, including rotary nozzles, tank heads, badgers, flex-lances, and pipe-cleaning attachments.

Our crews are trained in confined-space entry, atmospheric monitoring, and waste capture. Whether clearing hydrocarbon residue, scale, product buildup, or contaminated sludge, we maintain strict safety and environmental standards for shutdown and live-plant conditions.



## Capabilities:

- Tank and vessel internal cleaning
- Heat exchanger and condenser tube cleaning
- Pipe and line descaling
- Bund and pit decontamination
- Closed-loop or vacuum-assisted waste recovery

## Key Benefits:

- Increases plant efficiency and inspection access
- Reduces manual entry and confined-space exposure
- Integrates with hydrodemolition and surface prep services
- Enables safe, rapid turnaround during shutdowns

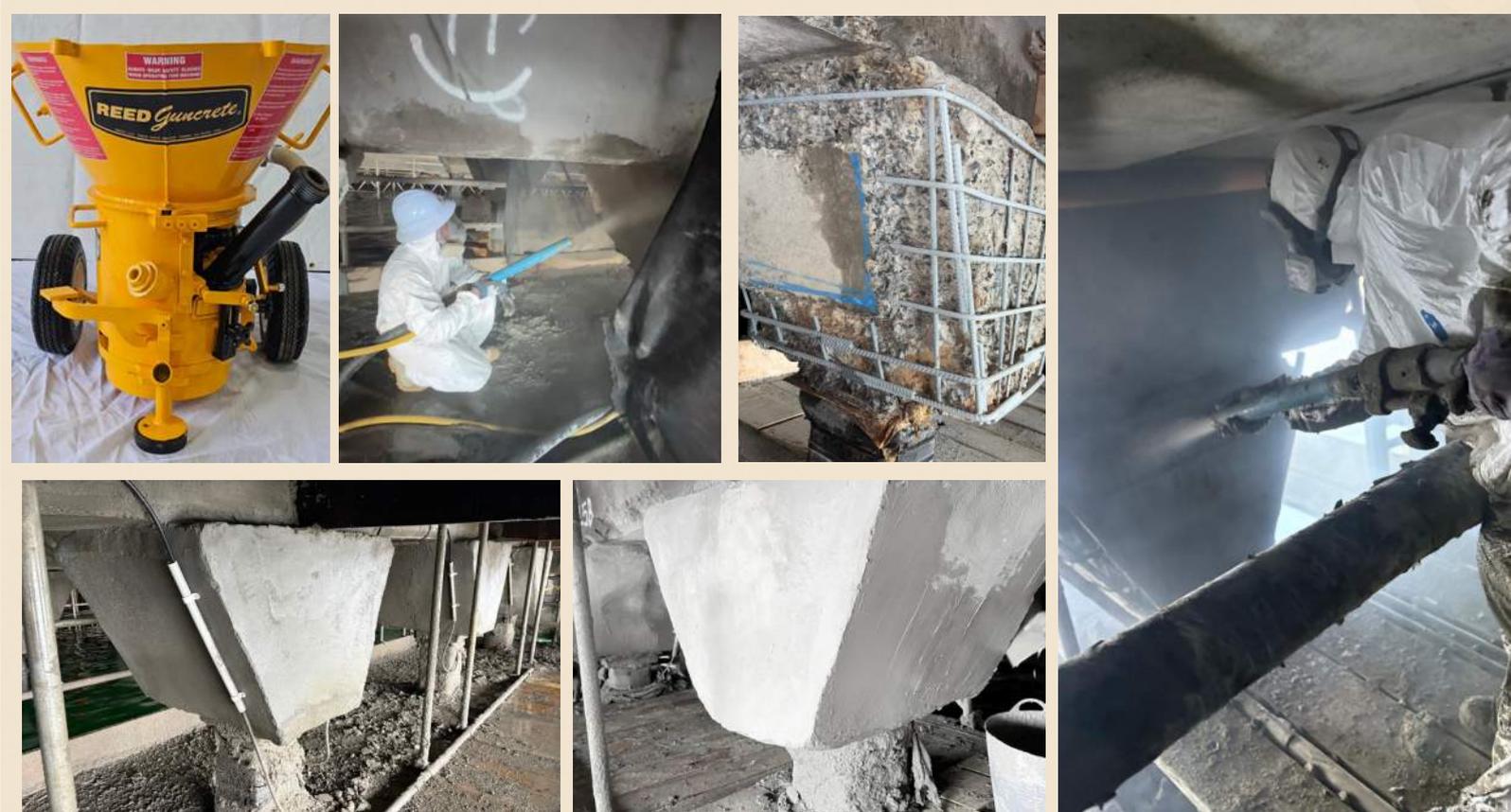
# Gunite & Shotcrete



Our gunite and shotcrete services provide structural rehabilitation, surface protection, and load-bearing reinstatement for concrete and steel substrates. Using both wet-mix and dry-mix processes, we reinstate form and function across vertical, overhead, and irregular geometries with durable, high-density finishes.

Six Solutions' operators are trained in both manual and robotic spray application, ensuring uniform thickness, compaction, and surface quality. Typical applications include marine piers, retaining walls, tunnels, spillways, and heavy industrial infrastructure.

We utilise industry-proven materials such as Fosroc Guncrete E, providing enhanced compressive strength, chloride resistance, and long-term adhesion to prepared surfaces.



## Capabilities:

- Structural strengthening and concrete encasement
- Wharf face rehabilitation and slope stabilisation
- Overhead and vertical repair zones
- Lining of culverts, tanks, and tunnels

## Key Benefits:

- High-density, low-permeability finish
- Rapid reinstatement, reducing shutdown durations
- Strong bond to existing concrete and reinforcement
- Suitable for both marine and dry industrial environments

# Concrete Remediation (Form & Pour repairs)



Six Solutions delivers full-scope concrete repairs—from minor patching and surface cracking through to major structural restoration—across marine and industrial assets. We execute form-and-pour, hand-applied, and pour-back methodologies to reinstate design intent, ensuring integrity, strength, and longevity for critical structures.

We also undertake bollard and marine fixture replacements for jetties, wharves and coastal structures, delivering structural compliance and durability under Australia's harsh marine conditions. All works are planned and verified through SWMS/ITPs and aligned to relevant Australian Standards and client specifications.



## Capabilities:

- Structural concrete rehabilitation (slabs, beams, columns, walls, piers)
- Crack injection & delamination repair (epoxy/PU) with rebar continuity
- Formwork, temporary works & controlled pour-back reinstatement
- Surface sealing, patching & finishing to specification
- Bollard & marine fixture replacements (jetties/wharves)

## Key Benefits:

- Restores structural capacity and long-term durability
- Extends asset service life; lowers whole-of-life cost
- Minimal disruption through staged, live-site delivery
- Marine-grade materials and methods for high-exposure sites

# Cathodic Protection Systems



Six Solutions designs, installs, and maintains cathodic protection (CP) systems for reinforced concrete and steel infrastructure across marine, mining, and industrial assets.

Our expertise covers sacrificial anode, hybrid, and impressed current configurations, each tailored to the asset's exposure conditions and service life requirements.

We provide turnkey solutions – from concrete breakout, electrical continuity testing, and anode placement to cable terminations, monitoring system installation, and commissioning. Each installation complies with AS 2832, AS/NZS 2312, and relevant port authority specifications.



## Capabilities:

- Jetties, wharves, dolphins, and marine structures
- Bridge decks and piers
- Tanks, bunds, and industrial foundations
- Long-term corrosion control for high-chloride environments

## Key Benefits:

- Extends structural service life by decades
- Mitigates steel reinforcement corrosion effectively
- Integrates seamlessly with new or existing repair systems
- Designed for minimal maintenance and long-term performance

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[www.sixsolutions.com.au](http://www.sixsolutions.com.au)



**Six Solutions**  
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## Let's Work Together

Six Solutions is ready to partner with you on your next asset maintenance, remediation, or structural repair challenge. Whether you're a Tier 1 builder, facility manager, council, or mining operator - we bring elite technical delivery and the heart of a family-run, Indigenous enterprise.

Reach out today for capability presentations, tender support, or a site-specific quote.

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