

## The Client

Denton Mauldin is Technical Director and Principal Remediation Engineer at Otek Australia, based in their Sydney office. He brings to his job 21 years of environmental consulting, remediation design and management experience. He has designed, pilot tested, permitted, installed and operated in-situ remediation systems using numerous technologies.

## The Challenge

Denton has worked with Numac on several chemical injection and remediation projects. But one recent project stands out as testament to Numac’s ability to work on hazardous sites and get the job done.

The project, in Adelaide, was to remediate an abandoned petrochemical facility. A major challenge was dealing with chlorinated hydro carbon, as well as the associated plume. In all, injections were conducted in three different locations

## Results

The site is now in the post-remediation monitoring phase. Onsite audits have produced no issues or incidents, and the client is very happy.

## Why Numac?

“We had been using Numac for general drilling,” says Denton, “and learned that they could also help us with In Situ Chemical Oxidation (ISCO) and dealing with hazardous chemicals safely. Numac certainly had the equipment and personnel we needed, but the main reason we went with Numac is their OHS standards and their attention to that aspect of the project—something really important to us, and I imagine to any client.”

## Success Factors:

- Assessment and understanding of all risks
- Trained personnel with the right equipment
- Site specific work methodology in-place
- Understanding of how to handle different chemicals
- On-site Safety Management, ability to deal with a spill



### Denton explains:

*“Initially, there were some issues to resolve because we were dealing with PSH and strong activation chemicals. We had some fittings that corroded so we had to learn a safe and efficient way to inject the chemicals. During the first injection we worked out those issues and as time went on we got better and better at it.”*

### What the client says:

*“Numac is very quick to adjust to issues and handle problems. They come up with solutions. They have been really helpful in keeping the project moving. Very easy to work with.”*



**Denton Mauldin**  
Principal Remediation Engineer



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