

# SULPHURIC ACID RECEIVAL BUND



## CASE HISTORY

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# SUMMARY

## SULPHURIC ACID RECEIVAL BUND

- INDUSTRY** : Coal powered Electricity Generation.
- PRODUCT** : ARC 988, ARC797 , ARCCS4, ARCS2
- EQUIPMENT** : Sulfuric Acid Receival Bund.
- LOCATION** : Eraring, NSW Australia.
- DATE** : December 2010.
- SUMMARY** : Existing protective liner failure in a number of areas enabled direct exposure to the concrete surface allowing chemical corrosion. Pooling areas, drain grate and sump internals also suffered severe corrosion.
- ROI** : The damage was repaired with ARC988 (to regrade drain and pooling areas), sealed with ARC797 and top coated with Imatech's chemical resistant ARCCS4.

# PROBLEM DESCRIPTION



## **Deterioration**

Corrosion of the pooling areas is quite evident.



## **Chemical corrosion**

Liner failure exposing concrete surface.

# PROBLEM DESCRIPTION



## Chemical Corrosion

Due to acid spillages at the connection points, the steel coated supports were badly corroded with severe chemical corrosion evident on the drain grate and sump internals.



# SURFACE PREPARATION



HP water blast, diamond grinding and acid etching were the methods used to remove the failed poly liner and prepare for Imatech's chemical resistant coatings.

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# SURFACE PREPARATION



Pooling areas were re-graded using Imatech's ARC988 ceramic reinforced composite.

# SURFACE PREPARATION



Sump internals and recess were re-graded with Imatech's ARC988 ceramic reinforced composite.

A new grate was manufactured then blasted and coated with Imatech's ARCS2 chemical resistant coating.

# SURFACE PREPARATION



Steel supports were grit blasted and coated with Imatech's ARCS2 chemical resistant coating.

Imatech's ARC988 was used to stabilize and protect the base.

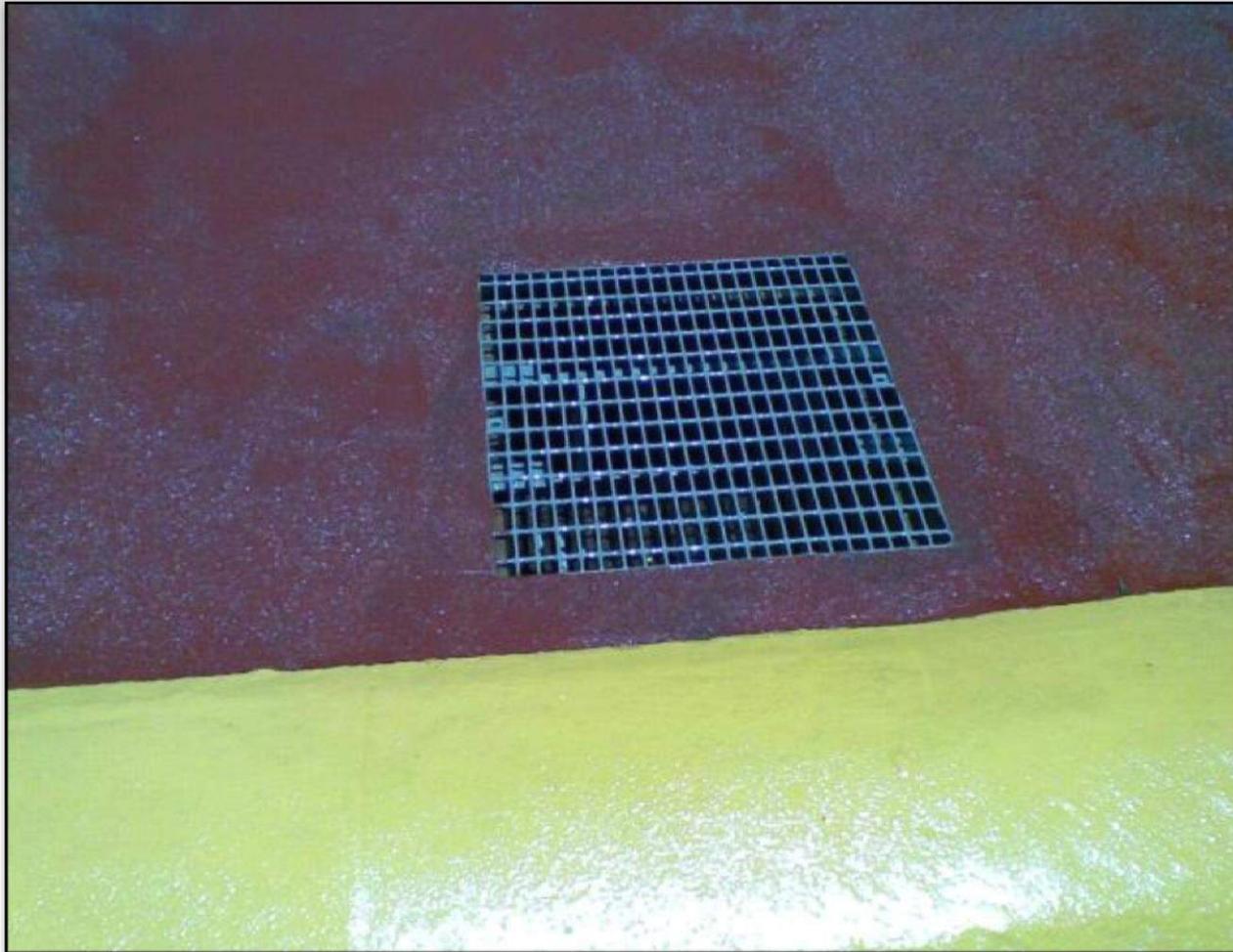
# SEALING AND COATING



Surface area was primed and sealed with Imatech's ARC797 hydrophobic primer then top coated with Imatech's ARCCS4 chemical resistant coating.

A non-slip surface grit was also applied.

# SOLUTION



High visibility yellow non-slip coating was recoated in a two coat application.

The grate had to be rated to enable truck movements.

Non-slip surface grit applied for operator safety.

# SOLUTION



# CONTACT US

Let us help you find out how our ARC Products can improve your operations and save you time and money.

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