

Fresh Water Corrosion Treatment using EndCor GCC9717 at Chile Copper Ore Miner.

CASE STUDY | Mining Industry

| The Problem

The mine was commissioned in April 1999 at the cost of \$1.76 billion.

During 2004, the project partners completed a \$584 million expansion program of the mine, giving it a long-term capacity of 500,000 tonnes per year of copper.

To take care of this environment, the operation considers a sustainable management of water resources, the care of biodiversity and the environment in general.

Fresh water supply to the metallurgical plant is well water with strong corrosion character. Customer decided with the technical support of VEOLIA WTS to apply a corrosion inhibitor to protect piping water supply system.

| The Solution

A one-month lab study was implemented where different corrosion inhibitor from VEOLIA were tested to see if it could meet the objective of 5 mpy corrosion rate. The tests validated the application of EndCor GCC9717 apply at 15ppm. The piping water supply system corrosion rate has met all Customer's expectations to date.

| Process Overview



| Results

Application: Piping water supply system corrosion inhibitor.

Capacity: 1800 m³/d

Location: Tarapaca, Chile.

Commissioned: 2001

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