

UP, UP AND AWAY



- Copper mines in northern Chile are high in the Andes Mountains, hundreds of miles from...well.

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LUNAR LIKE



- Not a drop of rain in 40 years, the Atacama high desert plateau is considered the driest part of the planet.

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MOVING MOUNTAINS



- Trucks and conveyors bigger than buildings are constantly at work in the copper mines.

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HUNGRY, VERY HUNGRY



- Tons of ore are moved in seconds over distances of miles.

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PROCESSING COPPER



- Copper is dissolved from crude ore then converted to pure solid plate in electrowinning facilities.

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MILES AND MILES



- Processing facilities cover huge areas at the Chilean copper mines.

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WET AND DRY



- Water is an essential ingredient for copper mining in the driest part of the planet.

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USER FRIENDLY



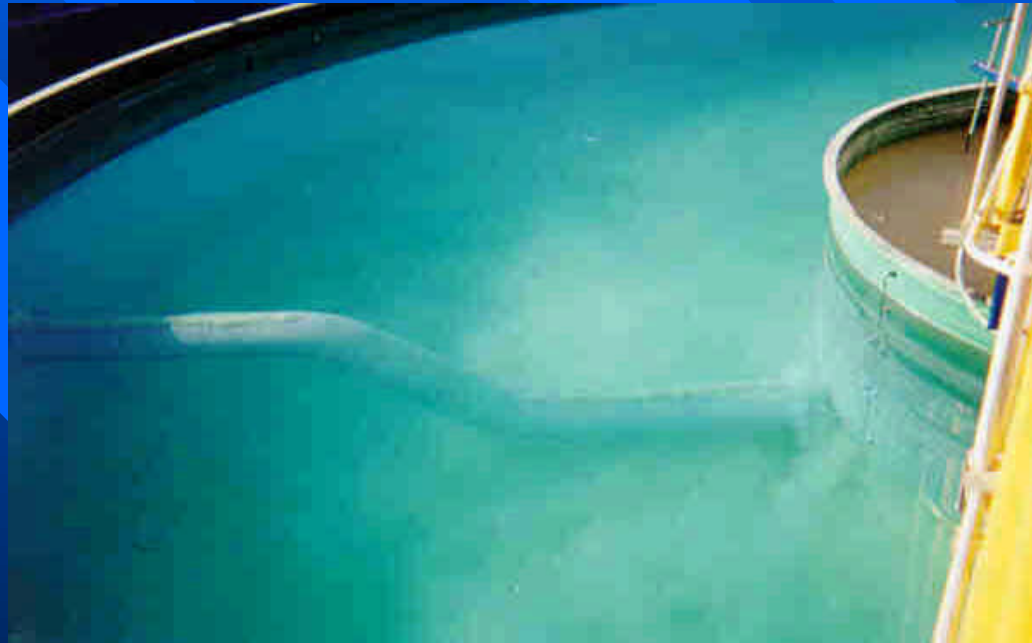
- Any water is good water in this desert. So, it makes good sense to reuse it.

REACTORS



- Water and wastewater are treated by chemical and physical means in reactor clarifiers as part of modern industrial and municipal facilities.

PUTTING CHEMISTRY TO WORK



- Impurities in raw water are precipitated with chemicals in the reactor. Then, pure water is separated from the billowing mass.

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THE REACTION CENTER



- The milky reaction chamber shows impurities precipitating. The slurry is recirculated while sparkling water separates to the outside top.

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THE DEPTH OF PURITY



- Looking down several feet in depth from the surface, purified water can be seen exiting the perimeter.

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SPARKLING RESULTS



- The Reactor produces sparkling results as one of the many steps of water purification

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PUTTING IT ALL TOGETHER



- It takes experience and committment to get the complete job done. A little knowledge of chemistry and physics doesn't hurt either.

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QUALITY SHOWS



- If there's art in engineering, quality most certainly is an essential component.

FILTERS



- Filters remove trace suspended matter from water as part of the overall treatment scheme.

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FROM THE TOP



- Four of these pressure vessels filter 2500 gpm of clarified water (about 500 M³/hr.).

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PRESSURE



- The men complete the pipe and sump work for the high pressure vertical pumps.

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STACKS AND STACKS



- Reverse Osmosis membrane stacks remove the salt from high pressurize water.

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FOUR BIG WORKERS



- These multi-stage pumps provide added muscle to desalinate water by reverse osmosis.

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TOUGH GUYS



- Copper mining in the Andes is not for the timid or frail. Highly skilled men from around the world master the challenge.

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CONTACT US



- If you have a challenging job that needs to get done anywhere in the world, contact us. Regards.
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