

## Convert Wastewater into a Useful Resource



BioteQ Environmental Technologies creates custom water treatment solutions to recover dissolved metals and remove sulphate from water impacted by mining, energy and industrial activities.

### » What We Offer

BioteQ is a trusted partner for the world's leading resource companies, utility operators and regulators, applying clean technologies to convert wastewater into a useful resource while delivering lower life cycle costs for water treatment. We provide:

- An **experienced team** of engineers and operators who are water treatment specialists in plant design, construction, commissioning and operating services.
- **Proven solutions** tailored to meet the unique needs of each of our customer's site.
- **Safe and reliable** operations that incorporate ISO 14001 standards for environmental compliance.
- A process **guarantee** that the plants perform to design specifications.

### » Applications

#### MINING & METALLURGY

Mine impacted water requires treatment to remove dissolved metals and sulphate to allow for re-use or safe release to the environment. We provide solutions for:

- Acid mine drainage
- Ground and surface water drainage
- Metallurgical process streams
- Lime plant effluent
- Tailings water
- SART for gold processing

#### POWER GENERATION

Power generation processes can build up total dissolved solids, dissolved metals, and sulphate salts that scale and corrode process equipment and increase water consumption. We provide solutions for:

- Cooling tower make-up and blow-down water
- Flue gas desulphurization blow-down
- Ash pond water

#### OIL & GAS

Water used in oil & gas processes can build up total dissolved solids, silica and sulphate salts that can cause scaling of process equipment and increase fresh water consumption. We provide solutions for:

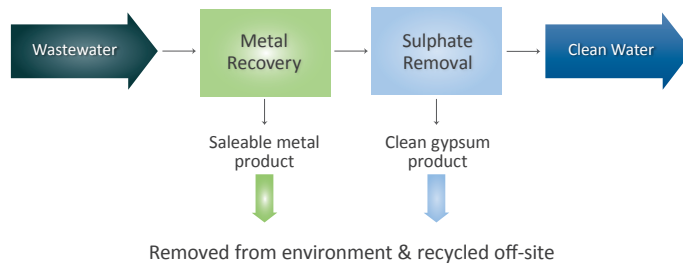
- Produced water
- Make-up water
- Shale gas frac water

### » Benefits

- **Compliance** with strict regulations.
- **Improve rates of water recycle**, re-use and conservation.
- **Reduce environmental liabilities.**
- **Reduce residual waste** and eliminate sludge.
- Reduce greenhouse gas emissions and chemical use.
- Convert waste into a valuable resource.
- **Reduce the life cycle cost** for water treatment.



## » Solutions for Resource Recovery



BioteQ recovers valuable by-products while reducing or eliminating waste. Our goal is total resource recovery. BioteQ's processes:

- **Remove sulphate** and total dissolved solids
- **Recover valuable metals** and remove metal contaminants
 

<input type="checkbox"/> Aluminum	<input type="checkbox"/> Copper	<input type="checkbox"/> Molybdenum	<input type="checkbox"/> Strontium
<input type="checkbox"/> Antimony	<input type="checkbox"/> Cobalt	<input type="checkbox"/> Mercury	<input type="checkbox"/> Vanadium
<input type="checkbox"/> Arsenic	<input type="checkbox"/> Iron	<input type="checkbox"/> Nickel	<input type="checkbox"/> Zinc
<input type="checkbox"/> Barium	<input type="checkbox"/> Lead	<input type="checkbox"/> Rhenium	
<input type="checkbox"/> Cadmium	<input type="checkbox"/> Manganese	<input type="checkbox"/> Selenium	

## » Proven Clean Technologies

Our experienced team of water treatment specialists provide practical, proven solutions that address the unique needs of each treatment site. We apply the best available technologies, which include:

- Sulphide precipitation processes for metal removal and recovery
- Lime treatment
- SART for gold processing
- Ion exchange for metal recovery
- Ion exchange for sulphate removal

## » Global Operations



### BioteQ Fast Facts

- » 14 plants in 6 countries
- » 8 billion litres of wastewater treated annually
- » 2 million pounds of metals recovered annually
- » Up to 99.9% of metals removed
- » Up to 99% water recovery

Contact us to discuss your water treatment alternatives.

### BioteQ Environmental Technologies

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