

» CASE STUDY

# Mount Gordon, Australia (Aditya Birla)

<b>PROJECT OBJECTIVES</b>	Water management and environmental compliance to remove copper, cobalt and nickel from drainage of waste dumps and low grade ore stockpiles.
<b>PROJECT SIZE</b>	<ul style="list-style-type: none"><li>· 6,000 m<sup>3</sup>/day flow</li><li>· production capacity of up to 1.4 million lb Cu and 135,000 lbs Co/Ni annually</li></ul>
<b>TECHNOLOGY</b>	ChemSulphide® plant
<b>COST</b>	\$9.0 million Cdn (2007)

BioteQ has designed and built a water treatment plant at the Mount Gordon mine owned by Aditya Birla in Queensland, Australia.

The plant is designed to treat wastewater produced by drainage from waste dumps and low grade stockpiles, applying the ChemSulphide® process to recover dissolved copper, cobalt and nickel. Commissioned in early 2008, the plant has a capacity of 250 m<sup>3</sup>/h.

A series of severe storms caused extensive flooding at the site in January 2009 and the site was shut down due to force majeure. The Mount Gordon plant is available for full scale operations, pending agreement from the site owner to re-start water treatment.



The Mount Gordon plant is designed to recover high grade copper, cobalt and nickel products.



BioteQ's Mount Gordon operation is located at a remote mine site in Queensland, Australia.

Figure 1: Mount Gordon Process Flowsheet

