Environmental Geophysics

Monitoring & Managing Environmental Challenges

HGI has extensive experience characterizing the subsurface to map plumes from PLS leachate, acid rock drainage, unintentional waste discharges and spills. Our geophysical approach to these environmental challenges ensures you receive the highest quality service while balancing your detection/mapping goals with mining site logistics and project costs to maximize project value.

- Acid Rock Drainage (ARD)
- Leak Detection
- Groundwater
- Seepage Mapping
- Contaminant Source ID
- Geochemical Mapping

Richland, Washington Office
509-546-7111

Woodinville, Washington Office
206-669-3730

Tucson, Arizona Office
520-647-3315

www.hgiworld.com

Innovative Geophysics

It's Your Greatest Asset

Heaps are a mine’s greatest asset and a significant amount of unrecovered metal inventory may be locked within them. HGI’s experience has shown that up to 40% of ore inventory may remain unrecovered due to inefficient leaching. We can help you unlock that potential and realize hidden value in your heaps through geophysical characterization.

A Billion Gallons of Experience

Enhanced recovery programs can yield an additional 2% to 5% of total metal recovered in just a few years, with a significant return on investment. HGI has developed a set of monitoring and validation tools that can track the success of subsurface leaching, assuring the delivery on that investment.

Geophysical Monitoring Extending Production and Reducing Risk

Heap Characterization

Realizing Hidden Value Through Geophysical Characterization

Heap Permeability Analysis & Assessment

- Compaction
- Seepage
- Drainage
- Perched Solution
- Liner Integrity

Innovation, quality, and flexibility are hallmarks of HGI’s geophysical services. HGI creates custom-fit solutions for individual client needs, making us an industry leader in the field of geophysics and geosciences.

A Full Suite of Geophysical Services for the Mining Life Cycle

Our Clients

- Apollo Gold / Jipangu
- ASARCO
- Freeport McMoRan
- Cottor Corporation
- Inland Explorations
- Kennecott Mining
- Newmont Mining
- Rio Tinto
- KGHM

- Alamos Gold
- Anglo Gold
- Barrick
- Coeur Mining
- Kinross Gold
- Sago Mine
- Pacific Copper