Leak Detection
For more information [ hgleakdetection.com ]

“WHERE THE WATER GOES”

Leaks can happen at any time in the life of a lined containment system. Poor installation procedures, improper usage, environmental factors, age, and repeated stress from regular use can cause tears, rips, or punctures in liners. Left undetected, these failures can risk shutdowns, regulatory fines, and staggering remediation costs.

Regardless of the industry or application, knowing when and where your system is leaking is the main objective in protecting the environment and your investment. Our leak detection methods involve electrically-based geophysics with innovative cabling systems, GIS, and a unique data analysis that can pinpoint the smallest leak. Ingenuity and technical flexibility give HGI a significantly higher leak detection success rate than our competitors.

Detecting Leaks

Each lined system is a structure unique in design, construction technique, and material. These variations present challenges with typical integrity testing and non-electrical leak detection. In particular, ASTM standards for leak detection are often not successful after the liner has been in use, because they fail to account for the unique qualities of each system, leak condition, and site.

HGI starts with ASTM standards as a guideline and then we modify the survey based on our extensive experience and technological innovations to create a leak detection survey tailored to fit your site. Our methods allow the entire pond to be filled to maximum capacity prior to surveying. Filling the pond once speeds up the assessment and allows complete survey coverage along the slope and bottom of the pond in one setup. This approach also increases survey accuracy by reducing human error, while improving safety because personnel never enter the pond. Collectively, our innovations make leak detection cheaper, safer, and more accurate, thus putting your pond back in service more quickly.

HGI’s deliverable, right, shows the electrical response in a plan map so that clients can easily visualize the magnitude of the leak response.

Leak Detection

subsurface imaging

INNOVATIVE SOLUTIONS

HGI professionals have the skills and experience to support every aspect of your project from concept and design to acquisition and interpretation.