



LIQUID
INTEGRITY SYSTEMS

smart technology for large scale leak detection





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detect leaks, save money & protect the environment

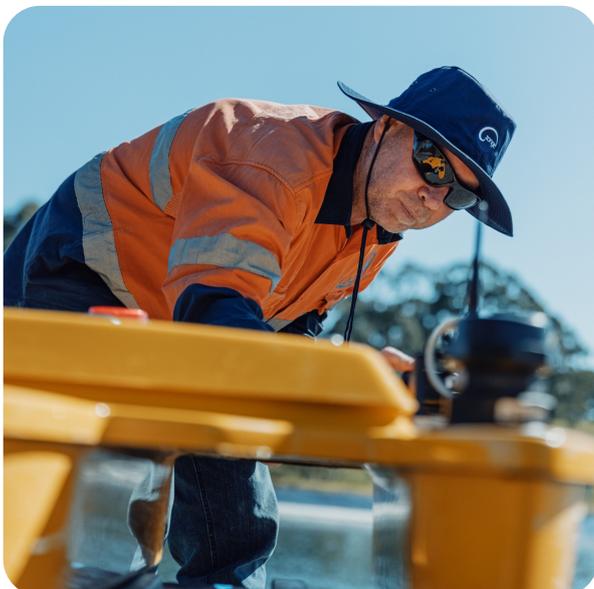
Liquid Integrity Systems' smart technology will detect leaks even where conventional methods are impractical or ineffective.

Pin-point leak detection and continuous monitoring with verified reporting, in any liquid, without interruption to ongoing operations empowers informed site management, resulting in significant cost savings and increased environmental protection.

Our systems are suitable for any geosynthetic lined pond, new or existing, and can be scaled up or down to meet client needs.



incredible precision with real-time rover surveys



Facility operators will enjoy timely data without interruption to operations.

Using advanced GPS technology, rover surveys are capable of providing precise leak location along with estimated sizes and flowrates. The rover will detect leaks where conventional methods are impractical or ineffective; extremely large ponds, deep water, toxic conditions, and hyper-saline environments are all suitable applications. Liquid Integrity Systems' proprietary techniques provide improved sensitivity in detecting leaks near earthed structures such as pumps, inlets, and weirs.

Rover surveys are a cost-effective solution to leak detection as there is no need to drain the pond, very little infrastructure is required, and the rover is quickly and simply deployed. Once leaks are detected, targeted repairs can be carried out without the need to drain, clean and survey an entire pond.



detect leaks as they occur with continuous monitoring

Continuous monitoring acts as an early warning system, alerting facility operators to leaks as they occur.

Liquid Integrity Systems' self-sufficient transmission consoles are wireless and solar powered which means you're always connected, even in the most remote locations.

Increasingly, continuous leak detection is required by law. Our systems will assist in providing the highest levels of compliance with environmental protection acts and provides operators, agencies, and community groups peace of mind.

All design, manufacturing, and installation takes place in-house, therefore systems can be scaled up or down as per client needs, applied temporarily or permanently, and installed into new ponds or retro-fitted to existing ponds, creating cost-effective solutions.

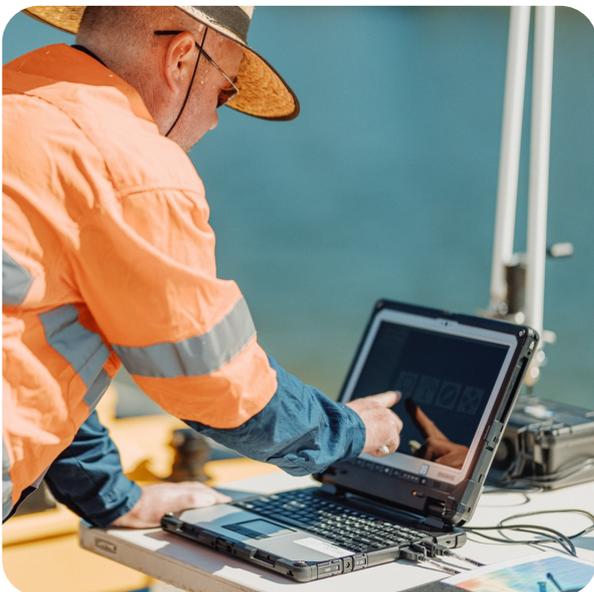


insightful data with verifiable reporting

What you need to know, when it matters most.

Liquid Integrity Systems' innovative mapping takes the guess work out of leak detection. Using advanced techniques, leak detection analysis is able to be completed with increased sensitivity and greater certainty. Our proprietary techniques will literally point out leaks, along with estimating the size and flow-rate, allowing for informed decision making for site management.

In the instance of a leak event, key personnel can be notified via our integrated software. Data is instantly and securely captured by Liquid Integrity Systems and promptly analysed for verifiable reporting in accordance with ASTM D8265. Additional data may also be captured with our secure telemetry, such as bathymetry, temperature, and salinity.





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what is electronic leak detection?

Electronic leak detection is the accepted method when it comes to identifying breaches in geosynthetic liners in ponds due to its accuracy and reliability. First developed in the early 1980's, it is broadly based on the principle that an electric current will move along the path of least resistance. Generally, liners are electrically resistive while the earth below and the liquid above are electrically conductive. An electric current is applied across the liner using electrodes in the liquid and the earth. The electric current will not flow between both charges unless the liner has been breached. Sensitive equipment is used to detect electric current flow between the earth and the liquid at the site of breaches.

Since development, different techniques have been implemented to detect leaks in a variety of scenarios, however, Liquid Integrity Systems leads the way in electronic leak detection innovation with unparalleled sophistication, sensitivity, and accuracy.

more questions? book a demo?

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