

## WellIntel® Community Groundwater-Level Networks



Monitor  
everywhere,  
involve everyone

### Build a WellIntel Monitoring Network to Visualize and Manage your Groundwater Resource



WellIntel's groundwater-level information system delivers elevation data in real-time from wherever it is needed and revolutionizes how communities monitor their resource, engage their stakeholders and make policy decisions.

WellIntel gives water managers the tools to create a network of public and private wells to:

- **monitor where the stress is** - without touching water and in real-time on private domestic and agriculture wells
- **engage and inform community members** - through access to their own online account to view their well's operations and better understand the condition of the shared groundwater resource
- **create dense, actionable datasets** - almost any private well can be turned into a monitoring well, greatly increasing density and deployment options
- **streamline data collection** - leverage existing private internet and free up time for the important work of analysis and scenario planning



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## How is WellIntel Different

Building and sharing actionable information about groundwater has traditionally been location-limited, complex, and very expensive. Whether for seasonal analysis to drive allocations or permits, specific risk or overuse investigation, or larger, longitudinal studies, experts have had to invest in expensive and complex equipment, training and ongoing maintenance. Analysis and results were rarely shared outside of the professional team.

### Until WellIntel.

**Monitor where the stress is:** Since conventional technologies must touch water, continuous monitoring rarely happens in the places where groundwater stress is felt first and most acutely - on private land - so communities and stakeholders don't see pumping impacts and seasonal recovery. WellIntel sensors use next-generation acoustic measurement technology to continually measure static and, optionally, pumping water levels without touching water.

WellIntel is designed specifically to operate in private domestic and submersible-pump agriculture wells, but operate equally as well in monitoring wells.

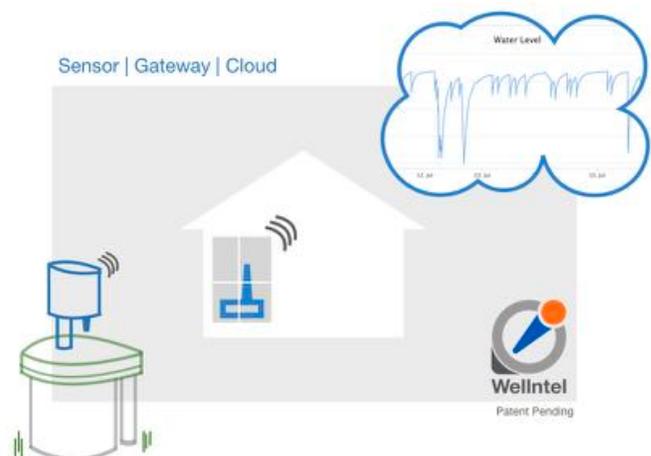
*With WellIntel, water managers work together with their citizen scientists to collect and share groundwater level data*



**Engage and inform from the beginning:** To grow understanding, well owners receive their own online accounts where they view operations of their well, understand their own pumping impact, and better understand the shared resource condition. Unless requested by the customer, WellIntel does not share broader network conditions or trends with the well owner.

### Streamline data collection and aggregation:

WellIntel's groundwater information system is comprised of a state-of-the-science acoustic sensor, a radio-connected wired-ethernet gateway and a cloud engine to aggregate, pedigree and synthesize data. Sensors deployed on private wells leverage private internet connections to seamlessly stream data to the cloud. A cellular option is also available for remote locations. Network managers' login to secure online accounts to view single well and network trends, analyze data from specific wells in detail and download datasets. RESTful API can be optionally used to stream data to websites or to external databases.



## What You Can Expect From WellIntel

WellIntel combines next-generation acoustic measurement technology, remote telemetry, and a cloud platform, to collect accurate, and reliable groundwater-level measurements from a wide range of production and monitoring wells. Stakeholders can bring new networks online quickly and cost-effectively.



### No new monitoring wells:

Because WellIntel doesn't touch water, almost any private well can be a monitoring well, greatly increasing density and deployment options. Sensors use existing well seal access ports or well caps can be easily modified to bring new monitoring points online in less than an hour.

### Industry-standard accuracy:

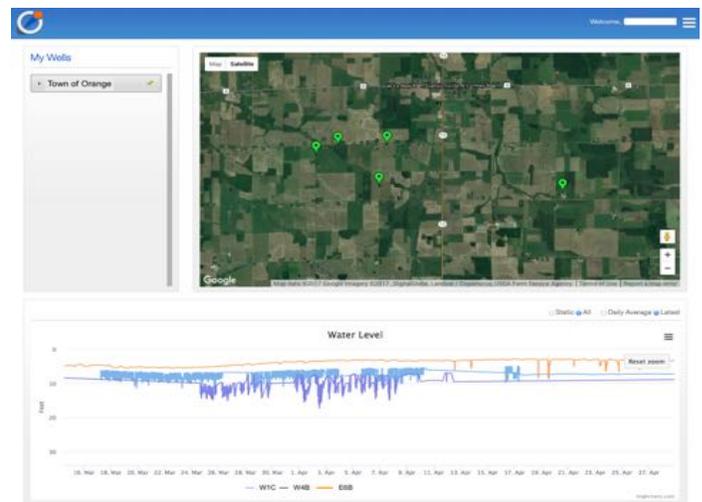
Water-level reading precision will be 0.1 ft or better within the operational depth range of 10 - 1,000 ft with a D2W measurement and a well water temperature measurement, collected at installation, and entered during online system registration. These two input measurements are used to calibrate the well air-temperature model used in the cloud to provide accurate depth values from raw time measurements. More information on accuracy can be found online at [www.wellIntel.com/blog](http://www.wellIntel.com/blog)

### No instrument drift:

Once calibrated, recalibration will only be needed if there is a substantial change in environmental factors, such as a physical change to the well. A distinct advantage of a WellIntel system is that there is no instrument "drift" as is experienced with many other methods. Data is processed and made model- or report-ready from the onset, without time-consuming and error-prone assembly or import/export systems.

### Dense, actionable datasets:

WellIntel systems default to measure static water level every hour. If a well pump is running at the time of measurement, the reading is meta-tagged for pump-influence and can be excluded or included in future analysis.



## Your WellIntel Community Groundwater-Level Monitoring Network

WellIntel is designed for flexibility. We work with you to create a network that delivers the time-series data you need, within your team's operational and budget goals.

WellIntel has two options for purchase: Network Subscription or Equipment Purchase:

### Network Subscription:

Working with WellIntel's team, customers scope network location and extent, and facilitate introductions to local well owners. WellIntel takes it from there - specifying WellIntel equipment to meet environmental conditions, installing and training well owners, and providing 24/7 remote monitoring and maintenance to minimize data gaps and ensure continual measurement and real-time access online. Three (3) year minimum subscription for a minimum 10 well monitoring network. Pricing varies based on network size and telemetry configuration.

### Equipment Purchase:

In this option, the well owner, groundwater manager decide upon their measurement goals and requirements, purchases and installs the equipment and performs any limited needed maintenance. Optionally, WellIntel can provide network scoping, selection and installation support on a contract basis. An annual data aggregation, processing and delivery service charge applies per well.

### Measurement Options:

With **WellIntel Standard**, you can specify a custom timed interval for groundwater level measurements (default every 4 hours). The system will also monitor for pumping influence and tag pump influenced readings for easy identification and analysis. This system is battery powered.



With **WellIntel +Pump** you'll see both timed interval and pumping impact readings, including initial drawdown, pump-stop water level and recovery. You can also set alerts for water level changes, pump cycling, pump risk and telemetry outage. this system is solar powered.

For more information, call 844-WELLH20 (844-935-5426)  
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