

Differentiation Through Technology and Services

Schlumberger Water Services (SWS) provides a complete range of cost-effective water exploration, utilization, and optimization solutions for public and private sectors.

Working as an integral part of your team, or as technology providers, we offer several scalable solutions to meet your business needs.

With over two decades of environmental experience, our team of professionals is ready to assist in all aspects of your water and groundwater resource projects.

Applied Technologies:

- Diver-NETZ*
- Waterloo Hydrogeologic Software Suite

Industry Expertise:

- Hydrogeologists
- Project Managers
- Environmental Scientists
- GIS Specialists
- Geochemists

Managed Groundwater Monitoring Networks



Managed groundwater monitoring networks offer a trusted, cost effective, and low risk alternative to traditional monitoring solutions

Background

The current position in the development and administration of environmental regulations by all levels of government has contributed to the creation of a vibrant, world-class environmental services industry. Source Water Protection efforts in Ontario illustrate the critical need to better understand the quality and quantity of groundwater as population growth continues to put pressure on this valuable resource. Municipal water managers now require a better understanding of their current regional groundwater resources to ensure the protection and service of existing and future developments. Likewise, environmental site managers need to also closely monitor groundwater as part of their environmental compliance efforts.

Schlumberger Water Services (SWS) is involved in the implementation and monitoring of projects designed to comply with regulations. The effective planning, management and maintenance of a groundwater monitoring network is critical for acquiring the data needed to make informed decisions. SWS has been effectively leveraging its proprietary technology and expertise to deliver groundwater data to clients. Through the adoption of a managed monitoring network solution, SWS clients are better able to make decisions about the management of groundwater resources in a timely manner.

Challenges

Traditional means of managing a groundwater monitoring network involve manual data collection methods like water level tapes, the use of field technicians with varying skills and abilities, recurring costs for the purchase of new field equipment and vehicle maintenance, and the management of multiple contractors for drilling, well rehabilitation and sample testing.

Highlights:

- Access to the latest SWS technologies
- Customized solutions for a wide range of applications with results-driven performance
- A comprehensive support and development of short and long-term monitoring strategies
- Cost effective alternative to traditional monitoring solutions

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Integrated Projects: Managed Groundwater Monitoring Networks

The challenges associated with these standards of practice include:

- Finding cost-effective methods for obtaining the quantities of groundwater data required
- Obtaining accurate and reliable field measurements
- Recording seasonal variations in water levels due to rain events and pumping
- Managing volumes of data to provide timely information to decision makers
- Managing multiple contractors for maintaining and expanding your monitoring network

The SWS Advantage

Schlumberger Water Services' (SWS) managed groundwater monitoring networks provide our clients with complete customizable solutions to these challenges.

Access to our highly skilled team of hydrogeologists, geoscientists, environmental scientists and environmental engineers,

without the associated personnel costs, reduces your risk exposure to staffing changes and training costs. Having one point of contact for all of your monitoring network needs reduces operational overhead.

As developers of the field-to-office technology used to manage a groundwater monitoring network, SWS delivers the results our clients require. Our clients also benefit from SWS' ongoing global product research and development efforts.

Given the current mandatory compliance requirements found in Certificates of Approval, Permits to Take Water, and Environmental Assessments, a managed groundwater network solution from Schlumberger Water Services provides a logical choice for many water professionals.

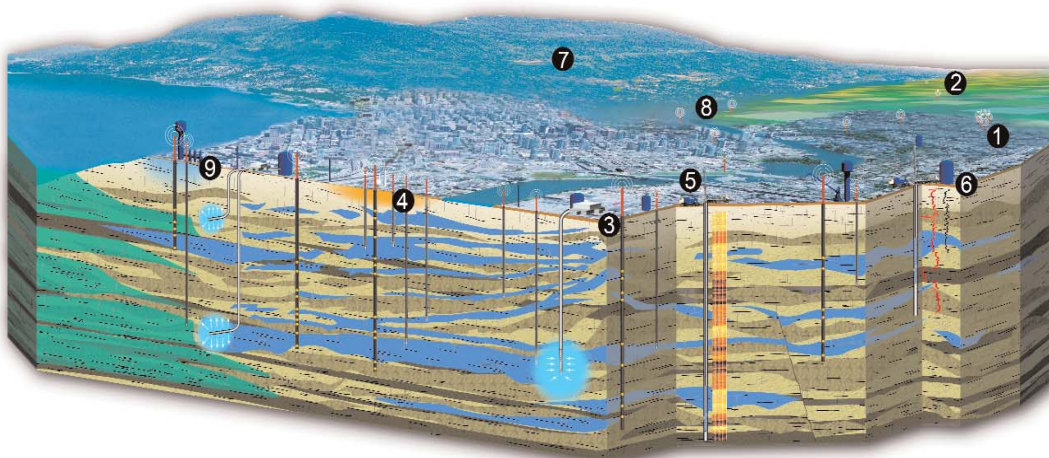
Features

A key feature of Schlumberger Water Services' service delivery is derived from our knowledge of regulatory requirements and the industry-leading technologies we have developed for managing groundwater resources. Key features of a managed solution include:

- Integrated Project Management and Planning
- Network Design Optimization
- Instrument Deployment & Data Collection
- Network Planning
- Data Management - Interpretation, Storage, Reporting
- Well Maintenance
- Drilling and Decommissioning Wells
- Water Quality Sampling & Analysis

Applications

A SWS managed monitoring solution can be applied to the monitoring of municipal water supply well fields; compliance monitoring of agricultural, commercial, and industrial activities; surveillance monitoring at sanitary landfills; contaminated site investigations; studying the impacts of mine dewatering; and estimating ecological impacts influenced by changes in groundwater levels.



- 1 Waste Water Treatment Monitoring
- 2 PTTW Monitoring in Agricultural Areas
- 3 Municipal Water Supply Monitoring
- 4 Commercial Compliance Monitoring
- 5 Industrial Compliance Monitoring
- 6 Contaminated Site Investigations
- 7 Aggregate Extraction & Mine Dewatering
- 8 Ecological Impact Studies
- 9 Saltwater Intrusion Monitoring

Our integrated solution supports all aspects of a monitoring network