

A dynamic background image of water splashing and bubbling, with various shades of blue and white, creating a sense of movement and freshness.

British Columbia Water Well Record Database: What Works, What Doesn't and What's Coming Down the Pipe

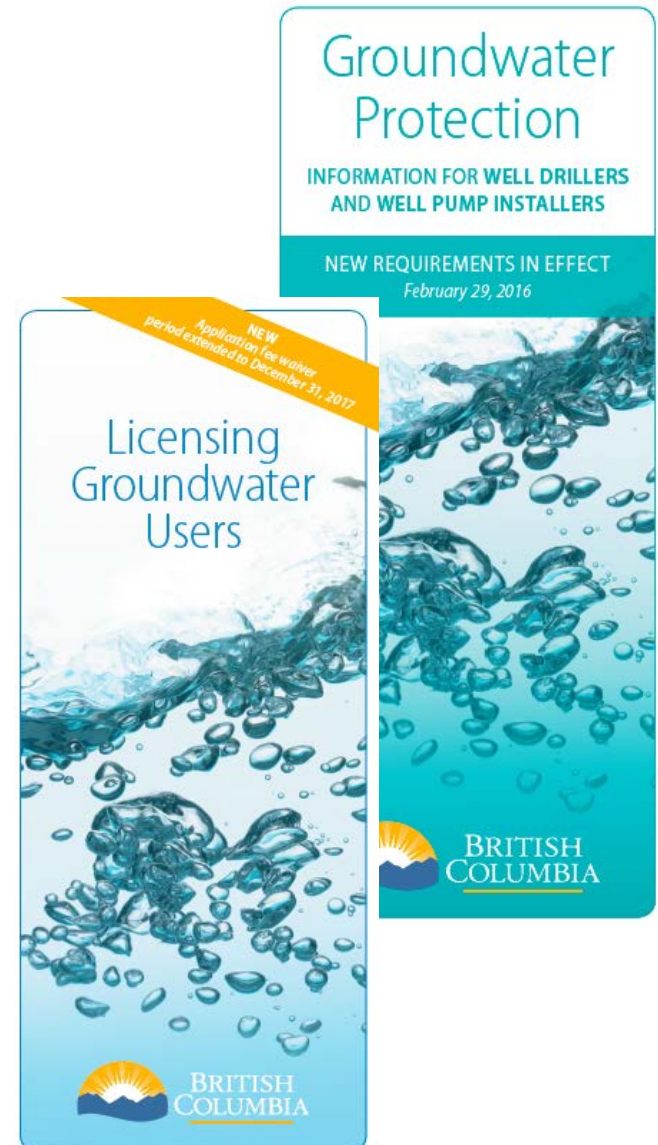
National Ground Water Association
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Ministry of Environment and Climate Change Strategy
Watershed Science & Adaptation

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Legislation and Data

- *Water Sustainability Act*
- Groundwater Protection Regulation



Legislation and Data

- Reports to be submitted to Provincial Government, include:

Class of Well	Subclass or Category	Well Construction	Well Decommission
Water Supply	All	✓	✓
Recharge or Injection	Made by drilling or boring	✓	✓
Dewatering	Permanent	✓	✓
Closed-loop Geoexchange	All	One per system	One per system

- ANY well that encounters flowing artesian conditions,
- To be submitted within 90 days of the well being drilled.

Challenges Accessing Data

- Data quality issues
- Lack of access to all relevant information
- Backlog of well records
- Multiple sources to retrieve data



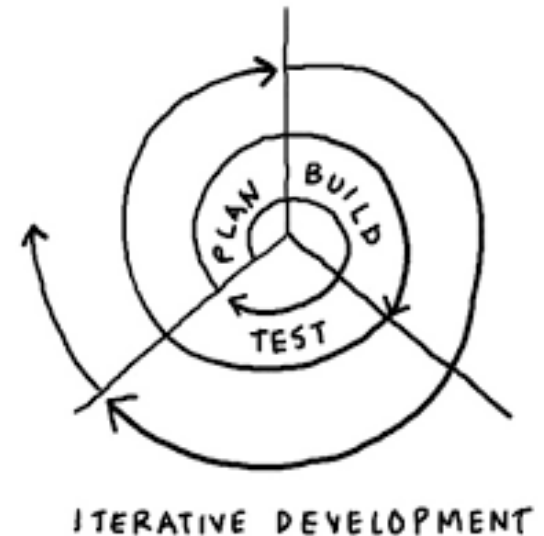
Application Software & Products

Software and Products	Existing WELLS Application	New GWELLS Application
Platform	Legacy System	Open Shift
Web Framework	N/A	Django
Database	Oracle	Postgres
Coding Language	Java	Python
Pipeline	N/A	Jenkins
Vendors	Outside Contractors	Internal
Integration with Other Systems	Minimal	Link to various relevant applications and databases
Code Repository	Subversion	GitHub
Development Method	Waterfall	Agile



A New Approach to Development

- Agile / DevOps approach
 - An iterative approach to planning and guiding project processes.
- Internal development team
- Scrum Framework
- Focus on user engagement



Demo



WELLS

GWELLS

Where We Are Going

- Submission of Well Records
- Well Detail Reports
- Edit-ability of Well Records
- Data Quality
- Aquifer Data and Information
- Register of Well Drillers and Well Pump Installers
- Integration with other Government Systems
- Access to Well Data



Keys to Success

- Dedicated staff or contractors
- Training
- Stable funding
- Industry support



Questions?

If you have any questions please contact:

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