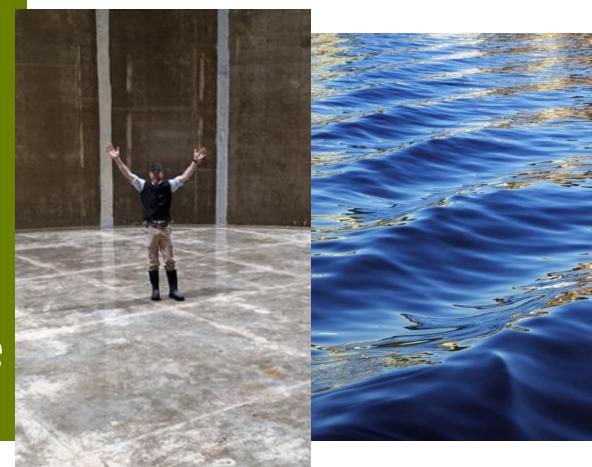


Spokane Aquifer Joint Board

SVRP Model Update

Spokane River Forum, April 23rd, 2025





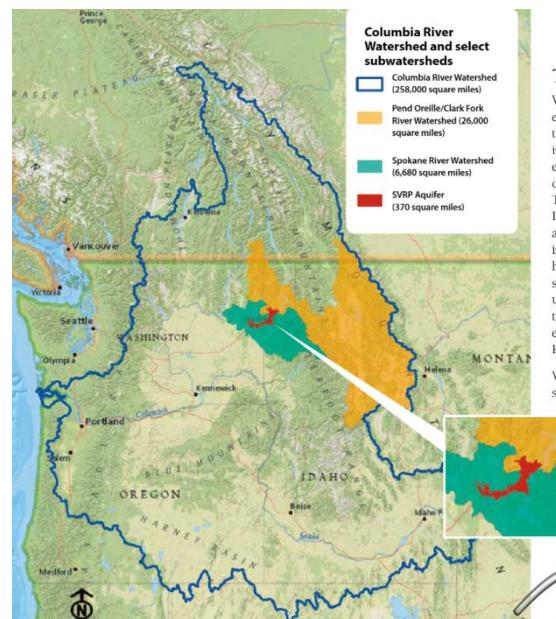
Members

- CARNHOPE IRRIGATION DISTRICT 7
- CONSOLIDATED IRRIG DIST 19
- EAST SPOKANE WATER DIST 1
- HONEYWELL ELECTRONIC MFG LLC
- HUTCHINSON IRRIGATION DIST #16
- IRVIN WATER DISTRICT #6
- KAISER ALUMINUM TRENTWOOD
- LIBERTY LAKE SEWER & WATER DISTRICT
- CITY OF MILLWOOD
- MOAB IRRIGATION DIST #20
- MODEL IRRIGATION DIST #18

- MODERN ELECTRIC WATER CO
- NORTH SPOKANE IRRIGATION DISTRICT 8
- ORCHARD AVENUE IRRIGATION DIST 6
- PASADENA PARK IRR DIST 17
- SPOKANE COUNTY WATER DIST 3
- SPOKANE BUSINESS & INDUSTRIAL PARK
- CITY OF SPOKANE
- TRENTWOOD IRRIGATION DISTRICT 3
- VERA WATER & POWER
- WHITWORTH WATER DISTRICT 2

Who We are

- 21 water purveyors
- Formed in 1995 under RCW 39.34 Washington Interlocal Cooperation Act
 - ~\$250,000 annual budget
- We all pull from the Spokane Valley-Rathdrum Prairie Aquifer
 - EPA designated Sole-Source Aquifer, serving over 600,000 people between CdA, ID & Spokane, WA
 - One of the most transmissive aquifers in the world



Spokaneaquifer.org

Why Update

- Current model framework is out dated and unsupported
 - \$\$\$ To Run
- Need to bring into current age to leverage for the future
 - Able to incorporate past and present modelling efforts into this model version
- Crazy growth happening aquifer-wide
 - We need to understand, as best we can, the dynamics of our sole-source aquifer now
 - 200,000 to 400,000 more people drawing from this waterbody will change
- Ability to "plug-in" new modules in the future

Funding

- SAJB applied for a Washington State Department of Health – Source Water Protection Grant
- Was awarded \$60,000 to complete the analysis
- SAJB Matching ~\$25,000
- Completed by end of 2025



What we are going to do

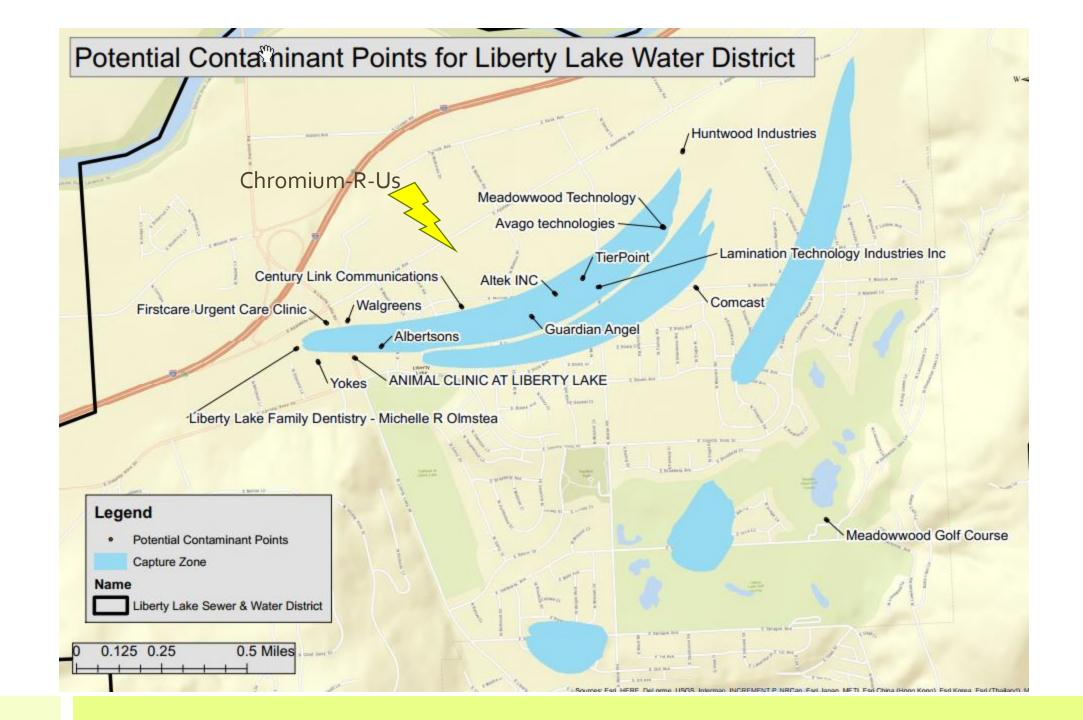
- Update wellhead protection zones
 - Recognized by DOH as regulatory
 - Since last model run, member wells have been added, pumping practices have changed, and more wells are in the works
- Climate Change analysis
 - Need to understand range of possibilities to plan for infrastructure adjustments
 - Quantity issues?
- Incorporate recent hydrogeologic data to fill in gaps/inferred
- Train local professionals to use model software
 - (Jeremy is excited!)

5/1/2025

Potential Contaminant Sources (1yr tot) McKenzie Newman Lake Hauser E Peone Rd E Moffat Rd Antoine Peak Pleasant View E 32nd Ave

Wellhead Protection

- ACCURATE CAPTURE ZONES ARE CRITICAL
- Potential Contaminant Source Inventory
 - Annual survey of businesses and development in SAJB member service-areas
 - Long-running database
- Groundwater monitoring
 - DOH required water system compliance sampling
 - Spokane County Water Resources monitoring program
 - Spokane County Aquifer Protection Area (vote!)
- Working together with agencies and municipalities to bolster rules/ordinances which protect groundwater



Gravel Pit Problem

- Exposed sole-source aquifer
- Land Uses adjacent
- Potential contamination
- Current and future wellhead capture zones intersect
- Jurisdictional???
- Post-mining reclamation plans

Quarry	Exposed Acres	Distance to Railroad	Intersecting Well Capture Zones
Lawrence B Stone Lake	5.96	235 feet	2
CPM - Havana	9.67 & 7.02	260 feet	1
Broadway/Sprague	59.5	200 feet	6
CPM - Sullivan	67.1	275 feet	16



Lake"

ish stocking



Broadway & Sprague

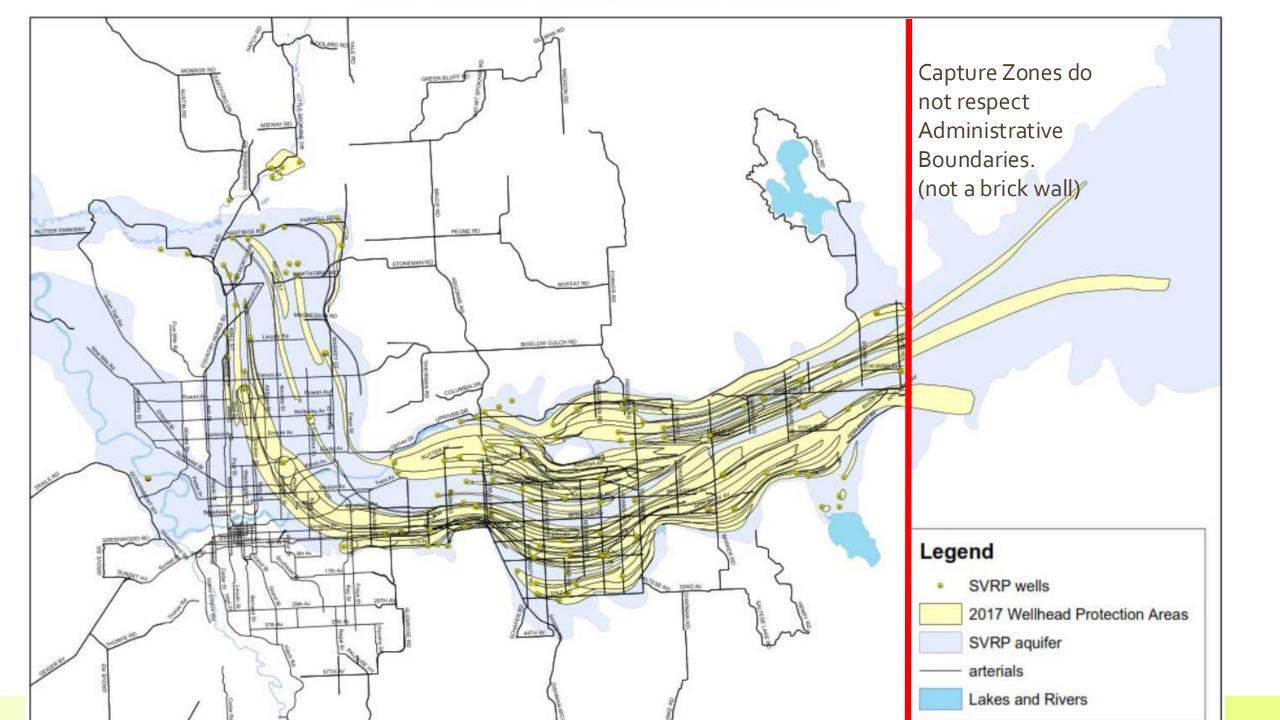
Visible from I-90

Very Deep

Reports of fish stocking

Sullivan CPM



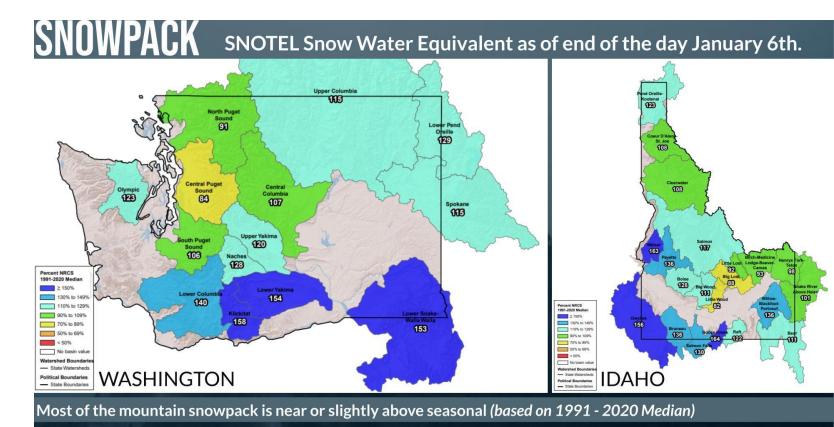


Long Range Planning

- Quantity
- Quality
- Infrastructure
- Climate Change

Worst Case Scenarios

- Contamination event
 - Local
 - Widespread
- Low to no snow accumulation
- WA/ID conflict



Issued: 8:36 AM - Tuesday, January 7, 2025

NATIONAL WEATHER SERVICE WEATHER FORECAST OFFICE SPOKANE, WA

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