

Introducing: The Spokane Valley-Rathdrum Prairie Aquifer



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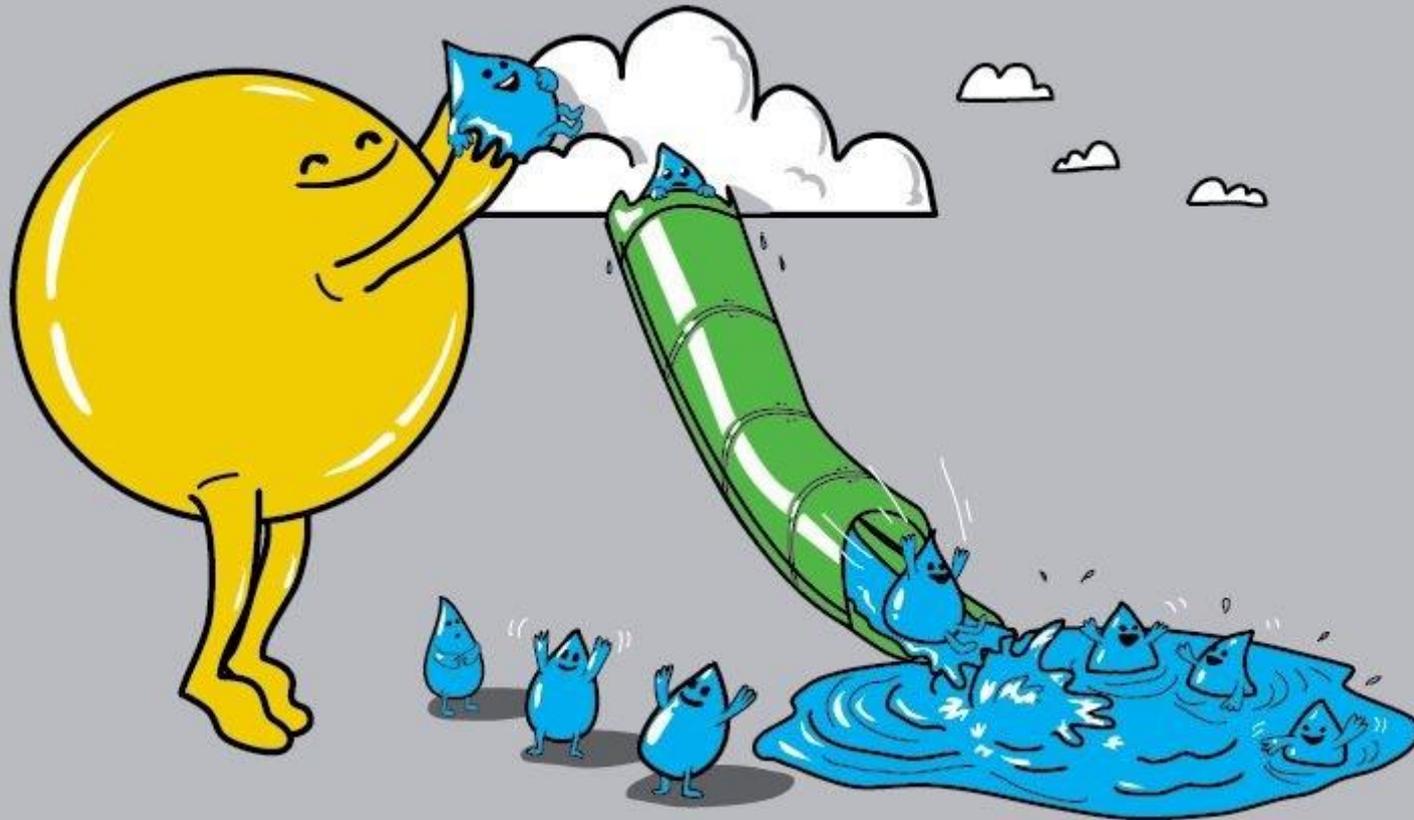
What is an Aquifer?



- An aquifer is made up of deep layers of rocks and gravel that are saturated with water.



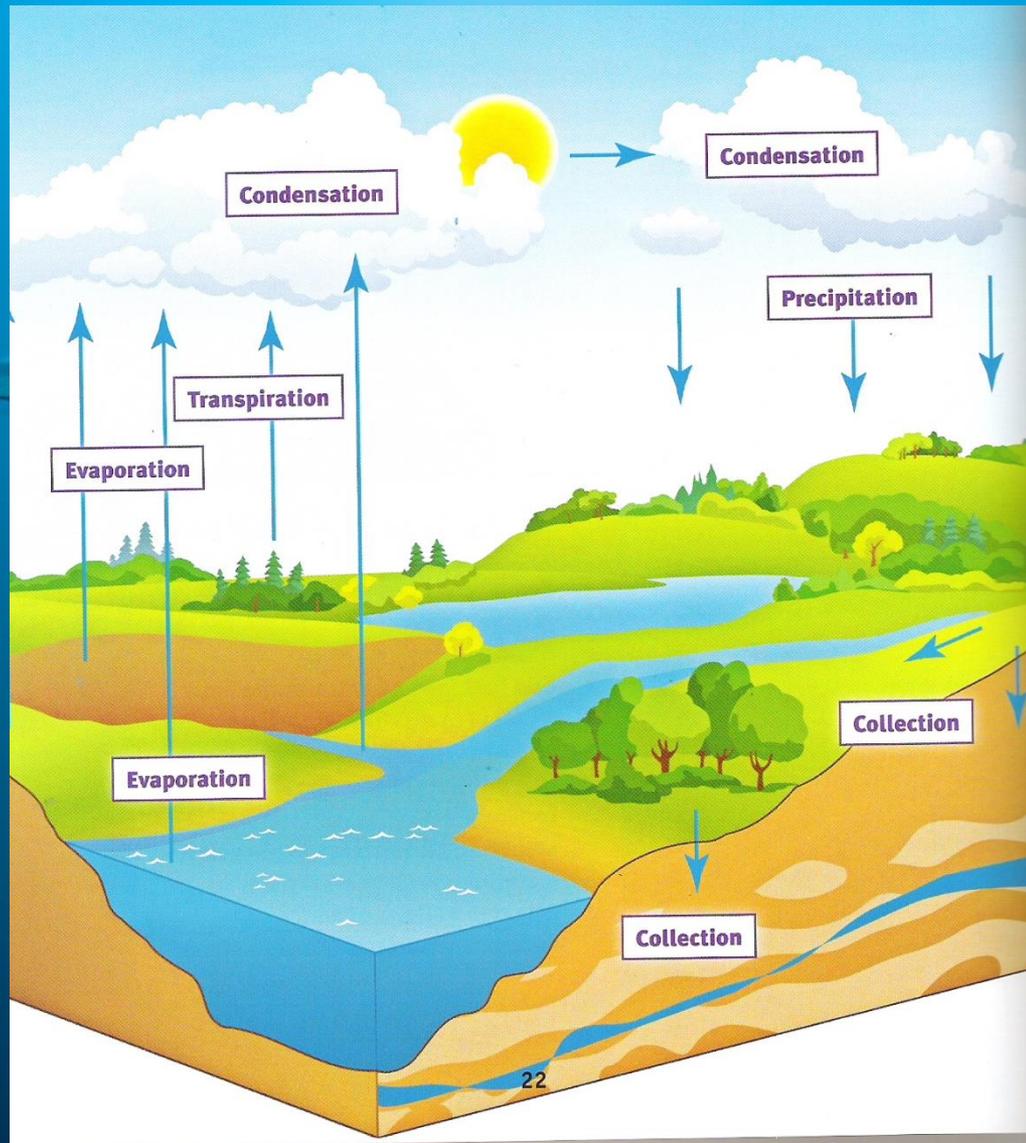
the Water Cycle



TheAwkwardYeti.com



The Water Cycle & the Aquifer

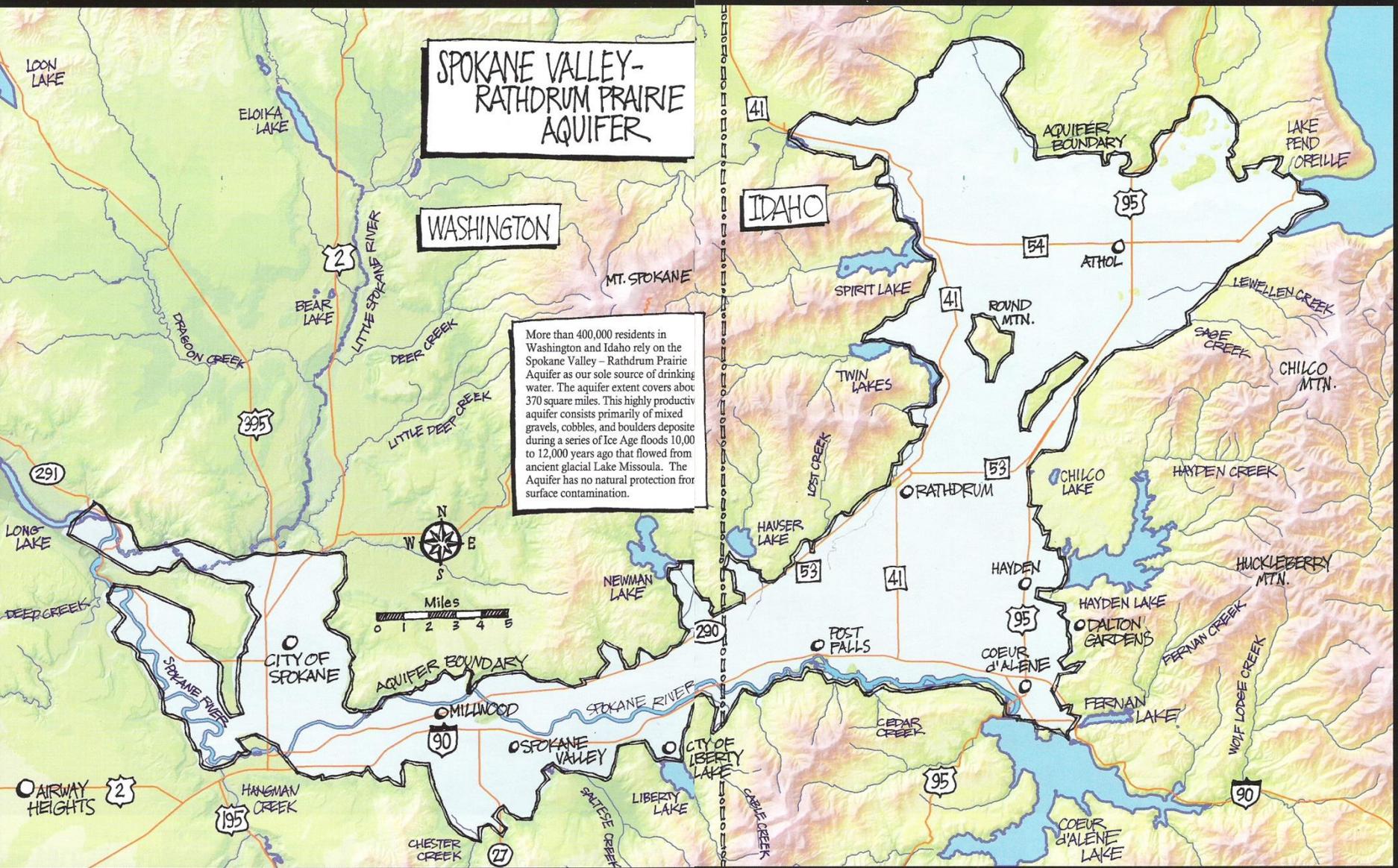


SPOKANE VALLEY- RATHDRUM PRAIRIE AQUIFER

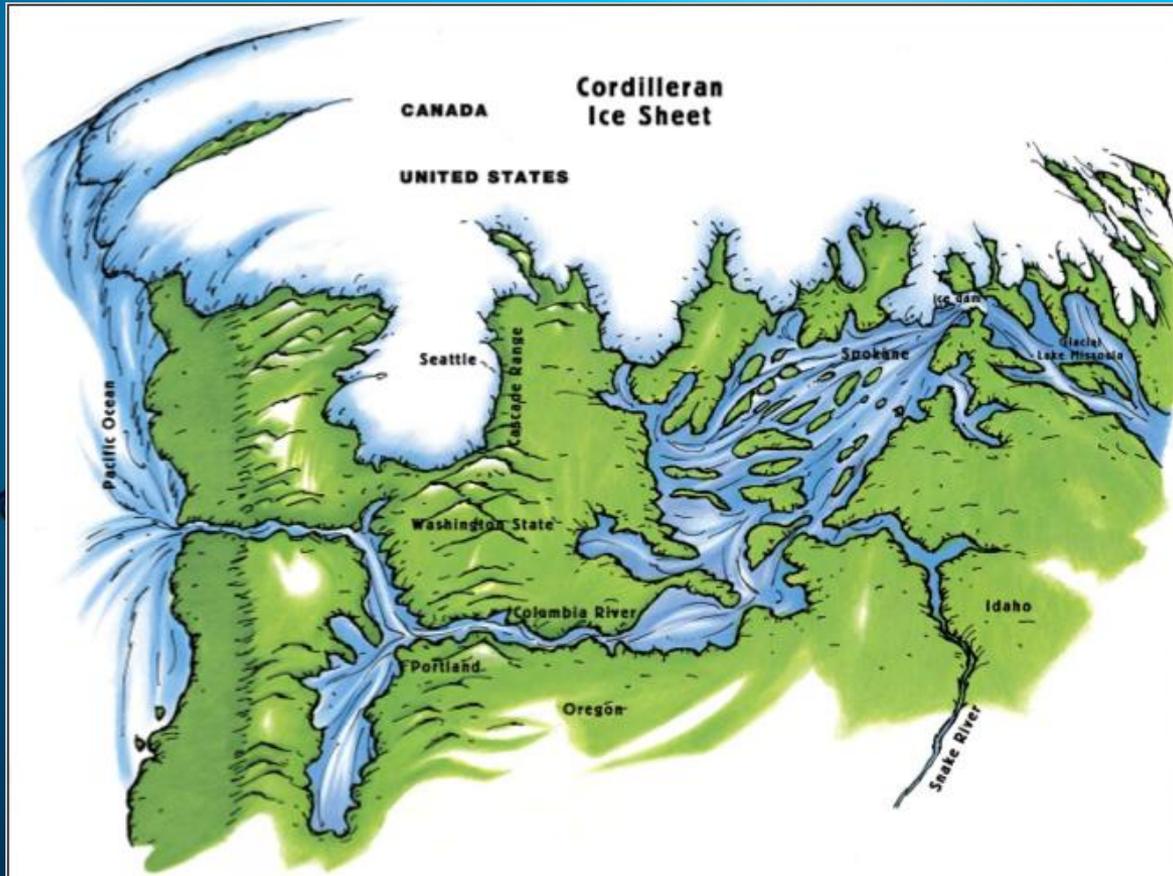
WASHINGTON

IDAHO

More than 400,000 residents in Washington and Idaho rely on the Spokane Valley - Rathdrum Prairie Aquifer as our sole source of drinking water. The aquifer extent covers about 370 square miles. This highly productive aquifer consists primarily of mixed gravels, cobbles, and boulders deposited during a series of Ice Age floods 10,000 to 12,000 years ago that flowed from ancient glacial Lake Missoula. The Aquifer has no natural protection for surface contamination.



Glacial Lake Missoula

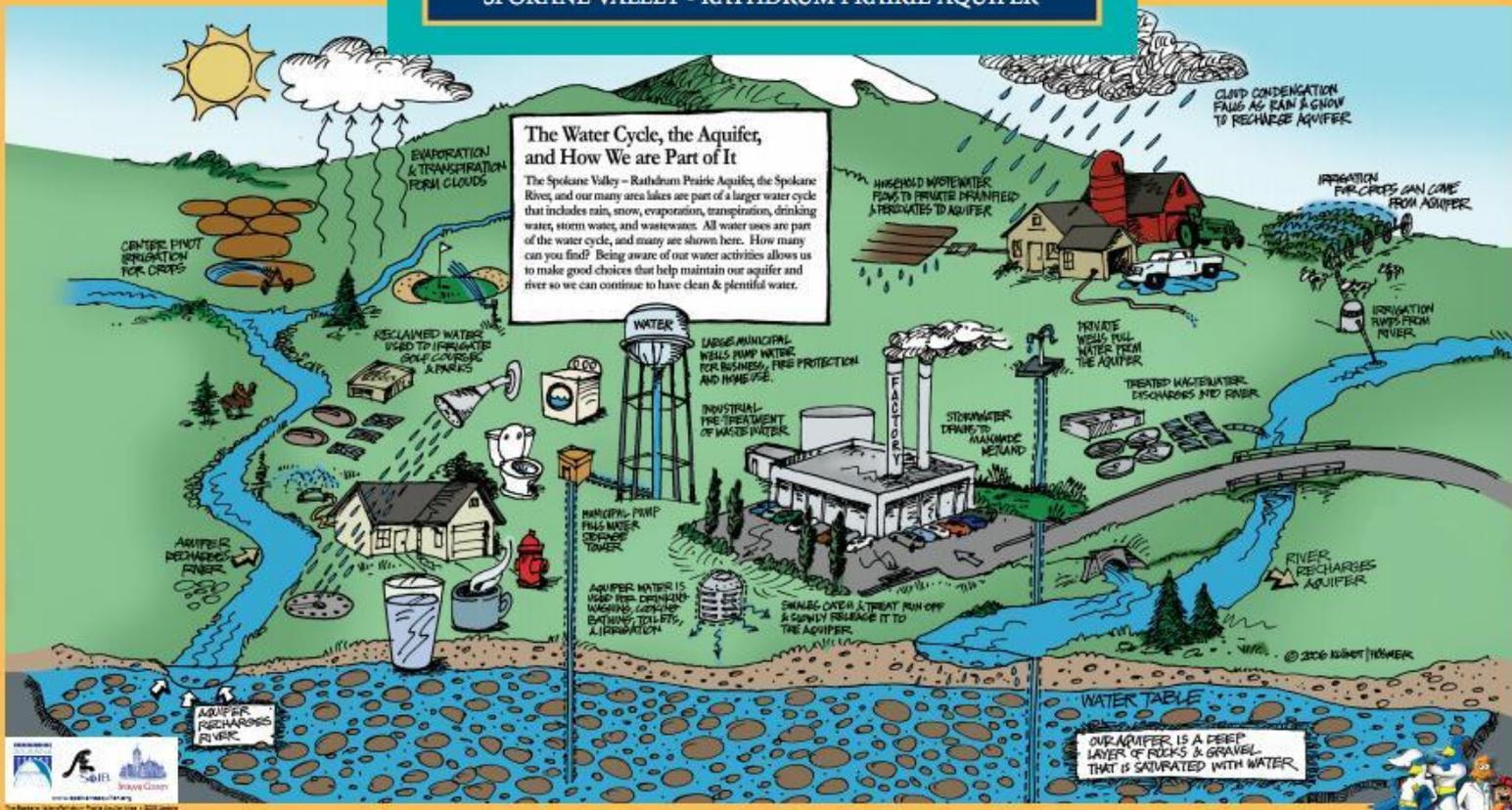


The ice dam was up to 2,500 feet high and 950 feet deep. When the ice dam broke, water flooded across the Columbia Plateau creating the Channeled Scablands and the Spokane Valley Rathdrum Prairie Aquifer.

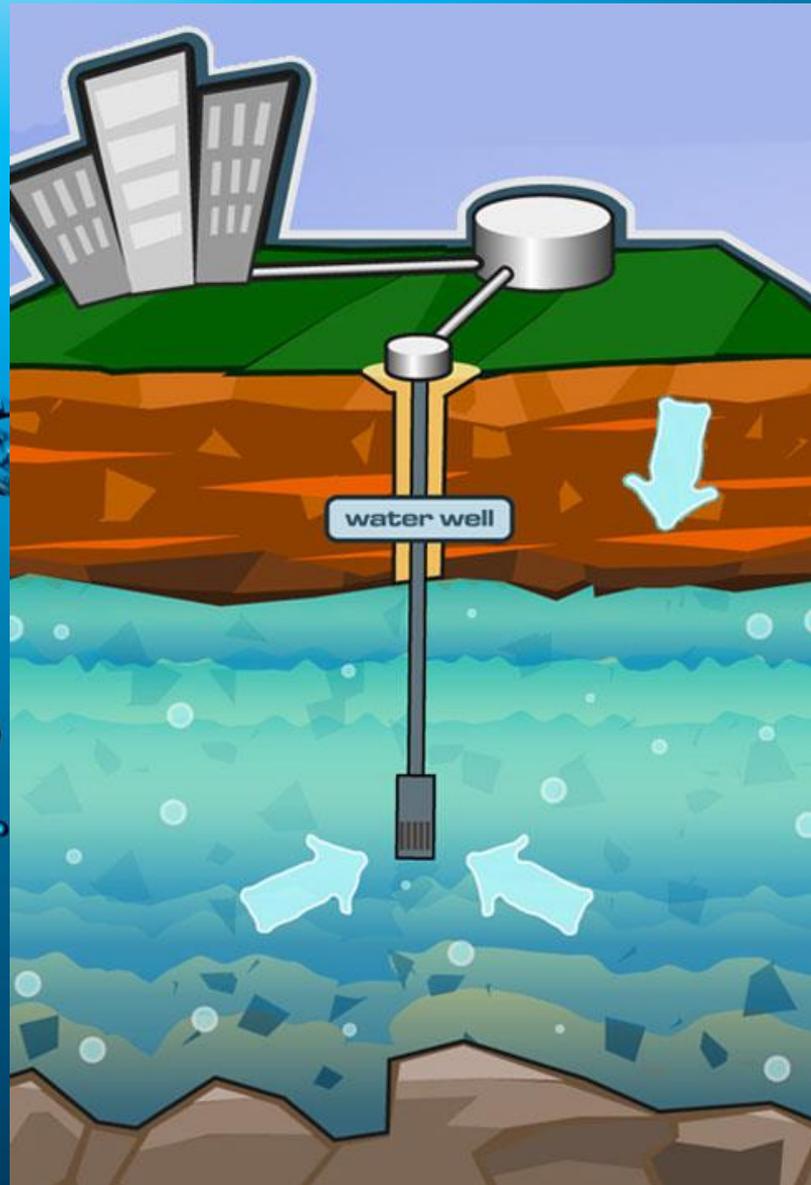
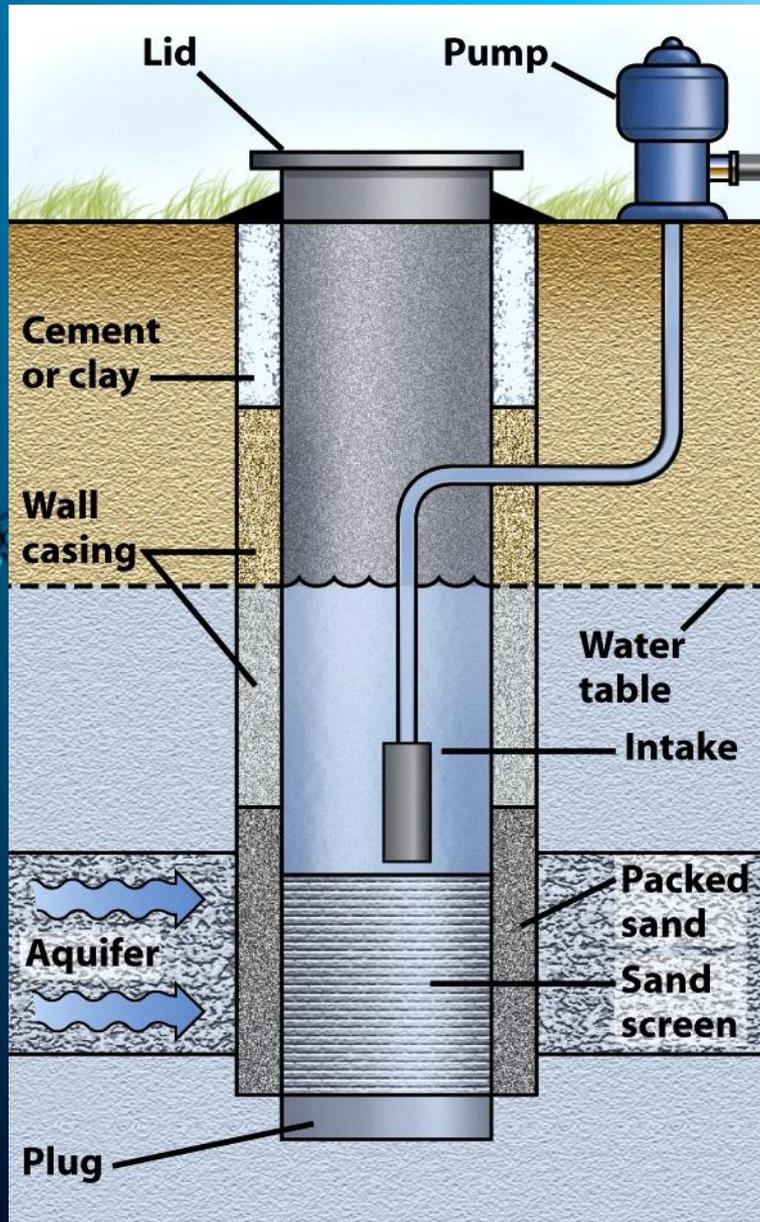


THE AQUIFER WATER CYCLES

SPOKANE VALLEY - RATHDRUM PRAIRIE AQUIFER

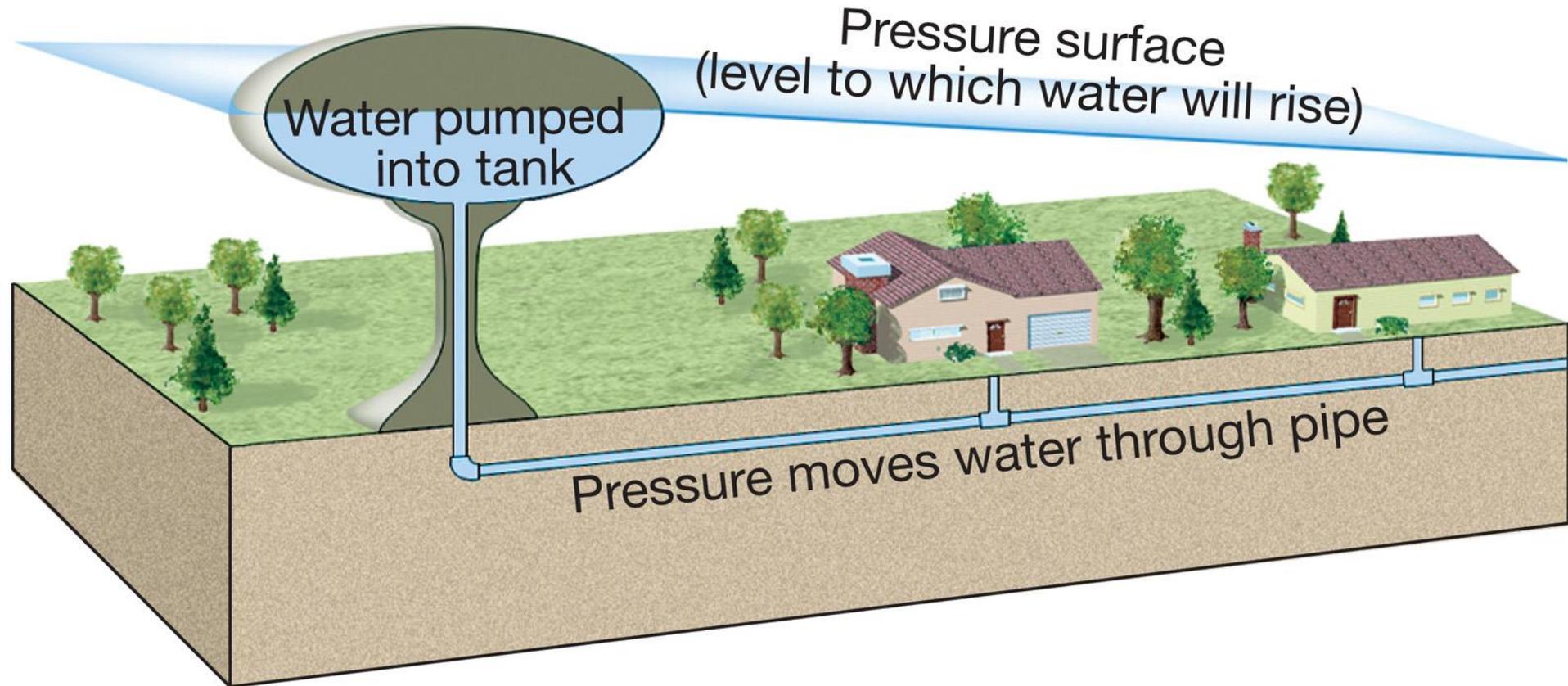


Water Works

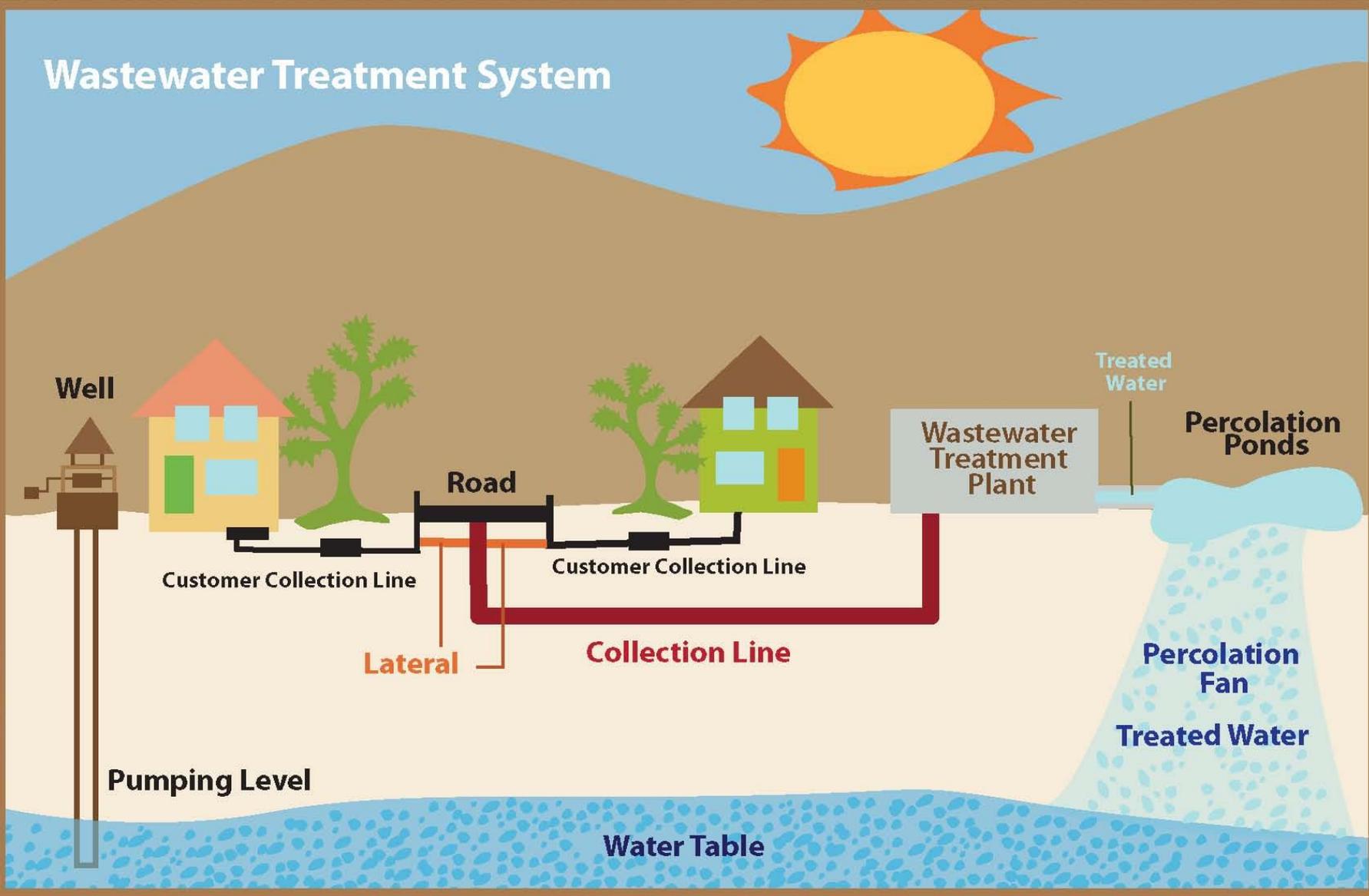




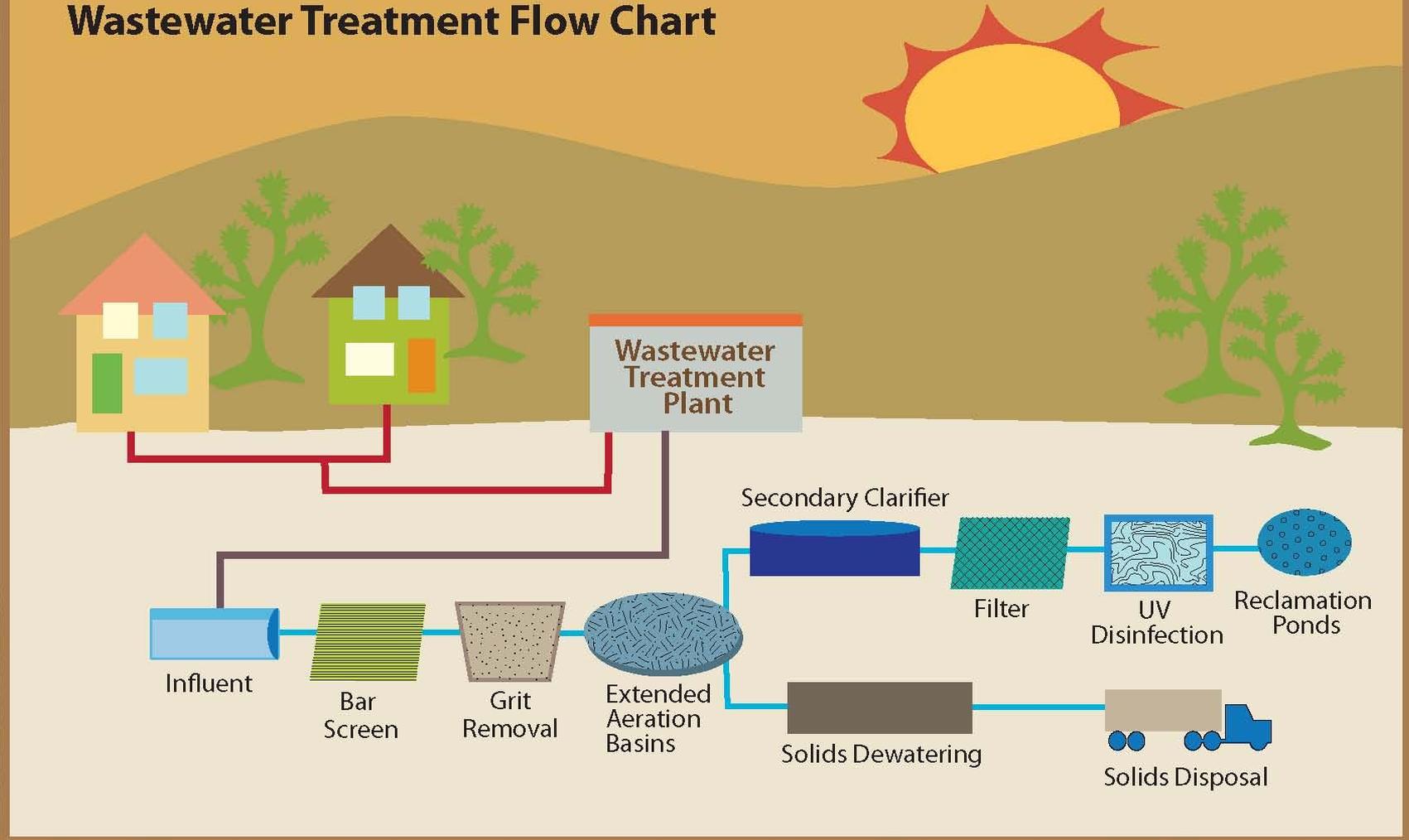
Water Works



Wastewater Treatment System



Wastewater Treatment Flow Chart



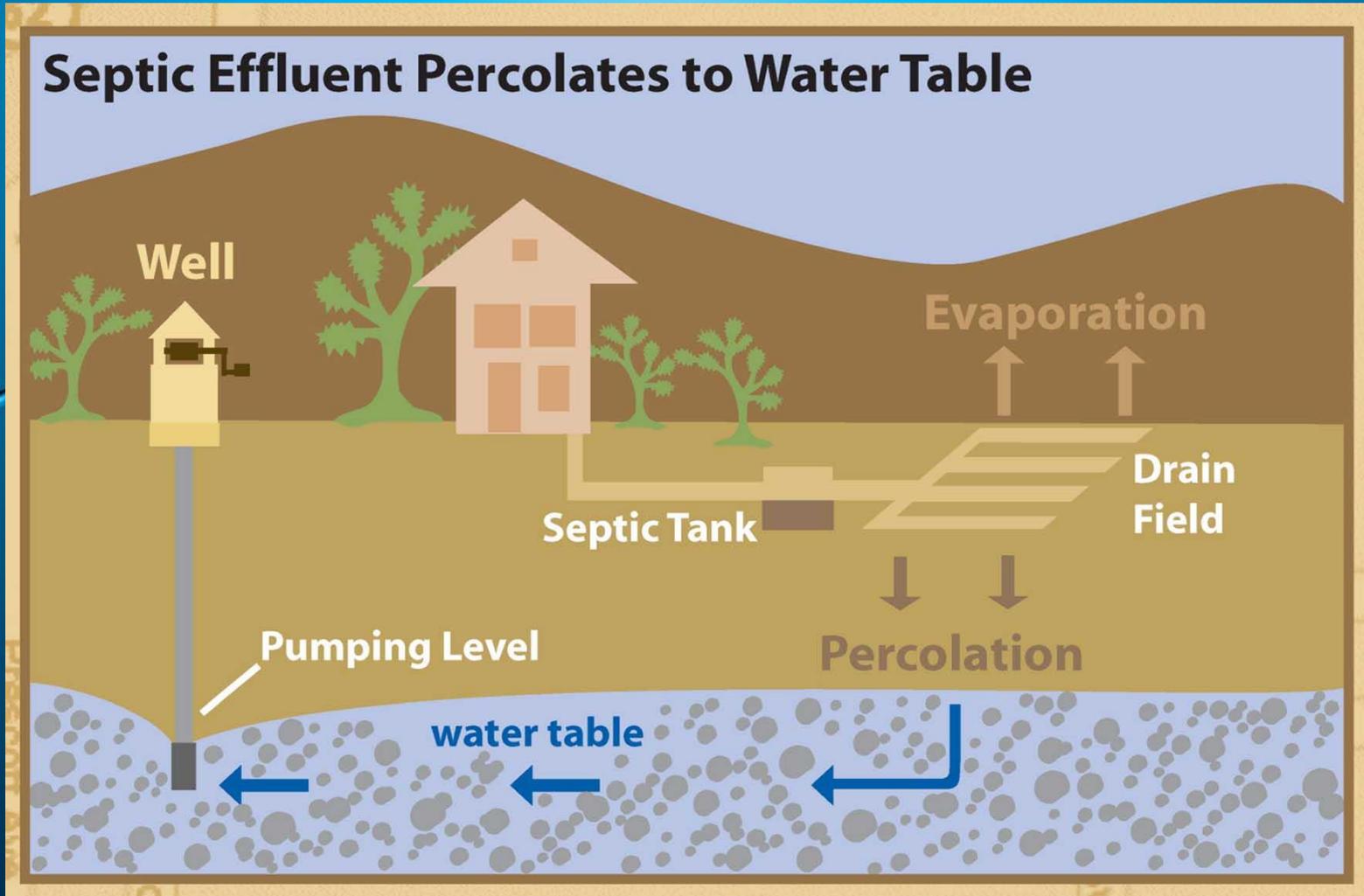


City of Spokane Riverside Park Water Reclamation Facility

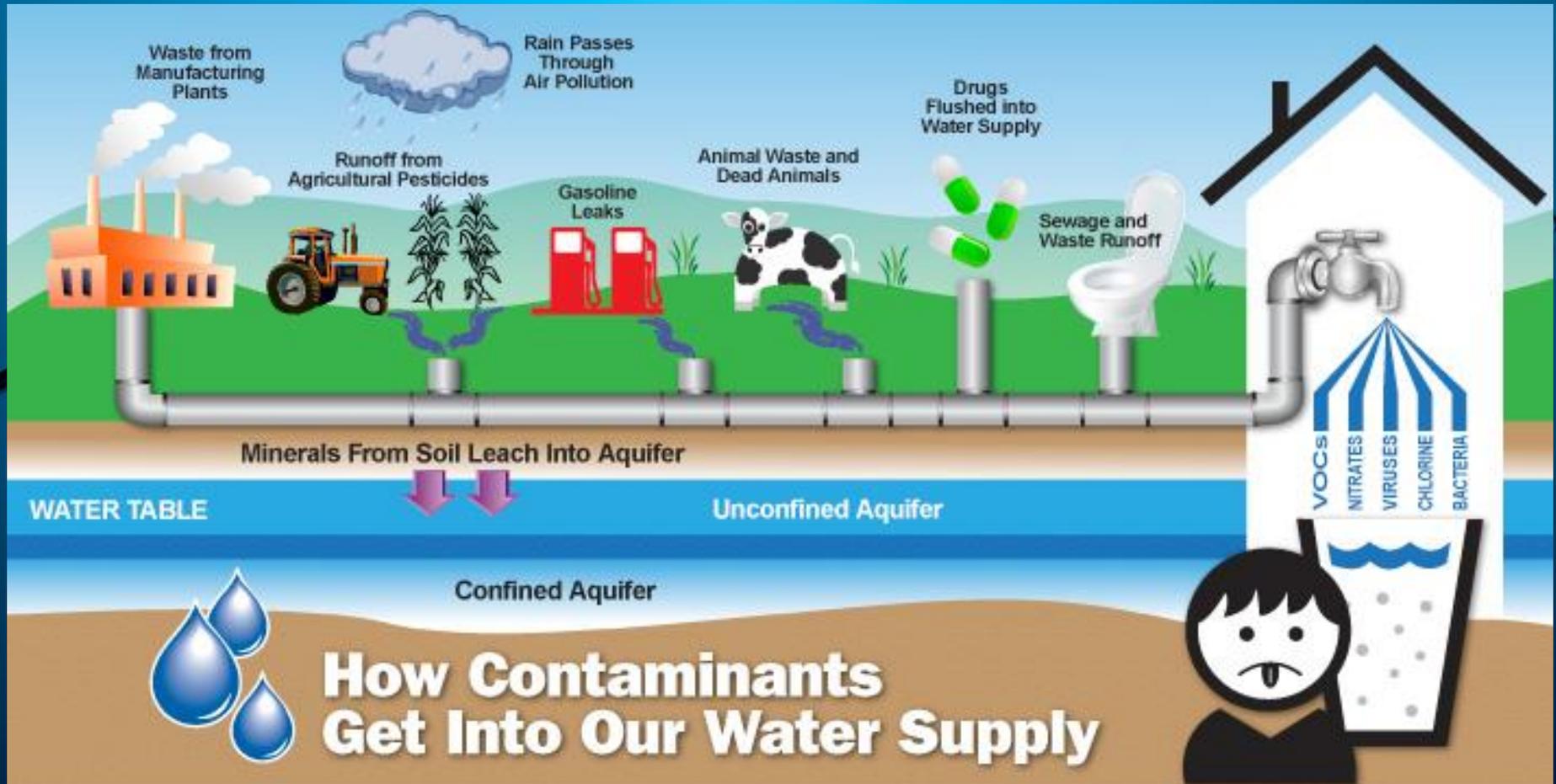


Spokane County Water Reclamation Facility

Septic Tanks

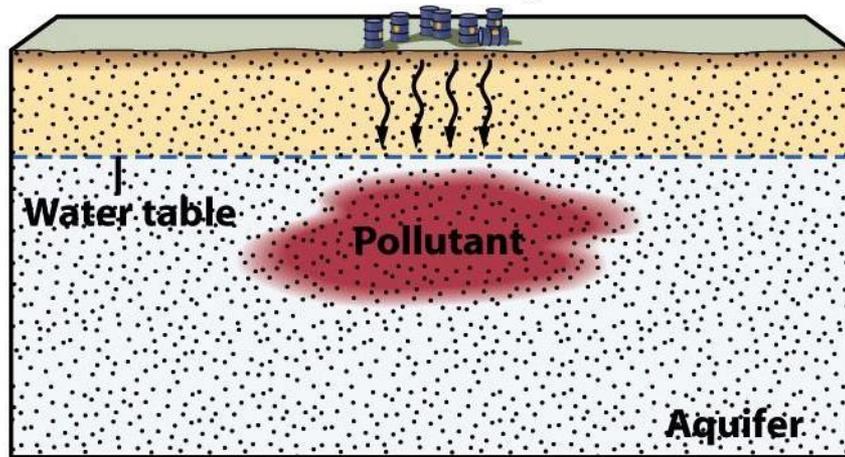


Contamination Sources





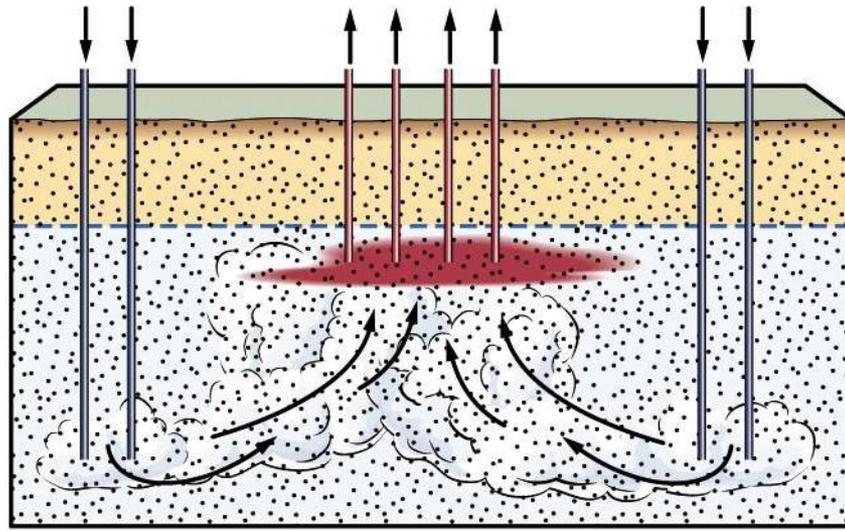
Waste leaks into ground.



Steam is injected.

Pumping wells remove pollutant.

Steam is injected.



Pollutant Clean Up





Conservation

There's no better way to protect our planet's water supply than to use less water.

WATER WISDOM

MATCH THE WATER-SAVING TIP TO THE AMOUNT OF WATER SAVED

1. Use a hose nozzle and turn off the water while you wash your car or bike and save this much water.

2. You'll save this much water if you time your shower to keep it under 5 minutes.

3. If you turn off the shower while you shampoo, how many gallons will you save?

4. Turn off the water while you brush your teeth and you'll keep this much water from going down the drain.

5. Use a broom instead of a hose to wash off driveways and sidewalks and save this much water.

<http://www.youtube.com/watch?v=ZpBIGDh6i7Q&list=FLd2pn4hOmI2BGiNBqerhqkg>





Water your yard and outdoor plants early or late in the day to reduce evaporation.



Use a shut-off nozzle on your hose.

Use plants that require less water.



Mulch around plants to hold water in the soil.



Get an Energy Star labeled washing machine.

Use a low flow showerhead.



Wash only full loads.



Take shorter showers — five minutes or less is best.

Turn off the water while soaping hands and brushing teeth.



Turn off sink faucet while scrubbing dishes and pots.



Install new toilets that use less than 1.6 gallons per flush.



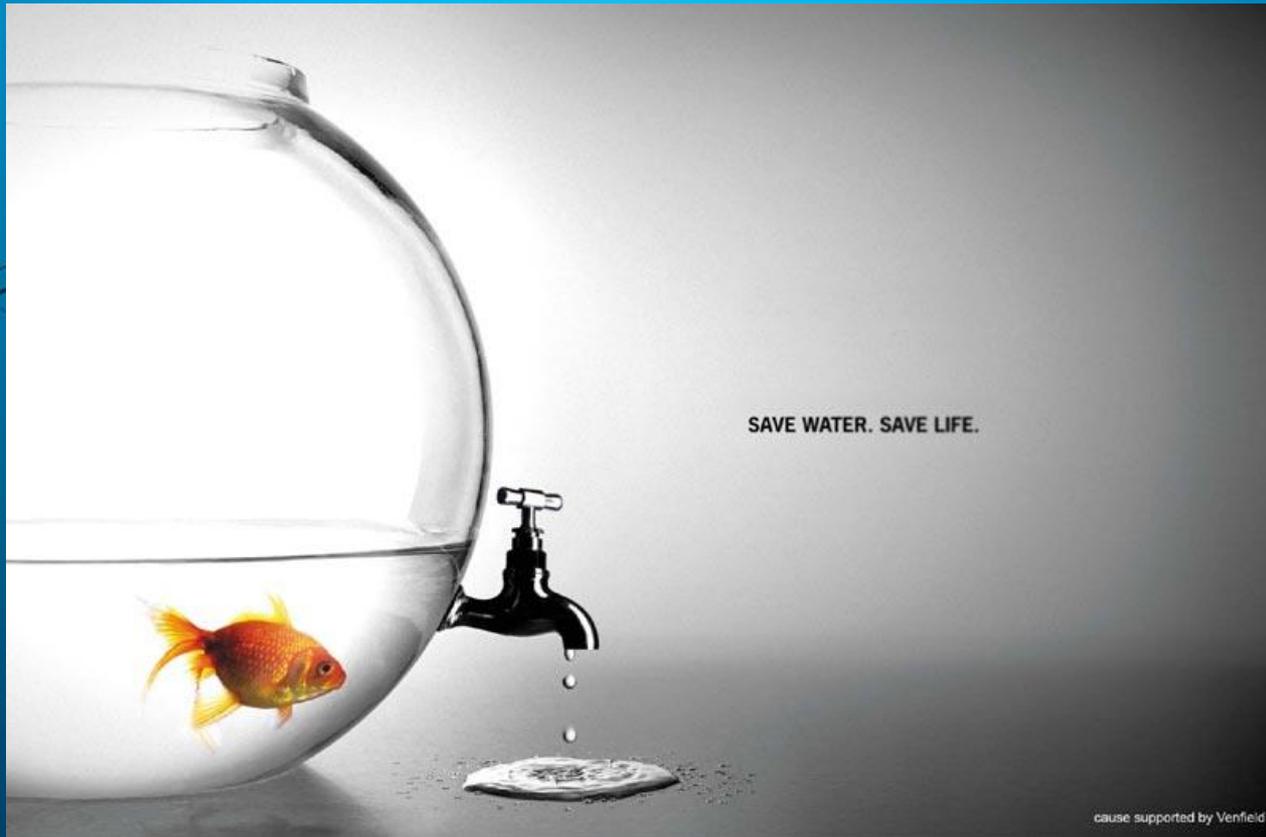
Put faucet aerators on sink faucets.

Use a broom, not a hose, to clean driveways and walkways.



"When the well's dry, we know the worth of water."

-Benjamin Franklin



<http://www.youtube.com/watch?v=Wao-8zcRiTA>



♥
aquifers

COOL

The

WRLD!
♥

