



All About City Water – An overview of Ellensburg's drinking water system

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Drinking Water Supply

- The United States has one of the safest drinking water supplies in the world
 - Many places do not have reliable access to clean drinking water.
- A part of staying healthy is knowing where your water comes from!
- City's water supply comes from the ground beneath us, is treated, and then travels through a network of pipes to your tap.
- Water Department supports our community's health by collecting and distributing clean water to your homes!
 - Rigorous testing through DOH
 - Excellent history of compliance



Drinking Water Safety Measures

- Water System Plan
- Source Protection
- Distribution System Pressure & Disinfection
- Routine Testing
 - WA Dept of Health
- Public Notification
 - Annual Consumer Confidence Reports



2024 Water Quality Report (For Water Tests completed in 2021-2023)

The City of Ellensburg Water Division (PNW-22950M) is once again proud to present to you our annual water quality report, which is required by the Federal Safe Drinking Water Act. Over the years, we have dedicated ourselves to delivering drinking water that meets or exceeds all state and federal drinking water standards. We continually strive to adopt new technologies and processes to ensure the safety of our water. As new threats to public health and water safety emerge, we will be vigilant in maintaining our objective of providing quality drinking water at an affordable price. If you have any concerns relating to the information in this report, we encourage you to contact your health care provider. Except as otherwise noted, otherwise, this report is based on the results of monitoring for the period of January 1, 2021 to December 31, 2023.

So What Is The Bottom Line?

Ellensburg's water meets or exceeds state and federal standards. Water is tested regularly through a certified laboratory. State and federal regulations monitor the compliance and testing protocols to insure safe delivery of drinking water to our community. If you have further questions or comments about the information in this report, please call the City of Ellensburg Water Department at 509-962-7230. We welcome your interest in Ellensburg's water system!

Important Water Facts

The Source of Ellensburg's Water

The City of Ellensburg takes water from eleven wells. The oldest well, City Well, is located in the city limits. The newest well utilizes a depth of 3300 feet to 1250 feet deep. Seven wells are located within the City limits of Ellensburg, and three wells are located outside the city limits. The water is pumped from wells owned by Central Washington Supply and is utilized by the City to supplement summer demands. The water pumped from these wells is treated to remove any contaminants.

We are fortunate to benefit from high quality water sources.

These sources are treated with chlorine prior to entering the distribution system for distribution purposes. Fluoride is also added to the water to help prevent dental caries.

Ellensburg Water: A Great Value!

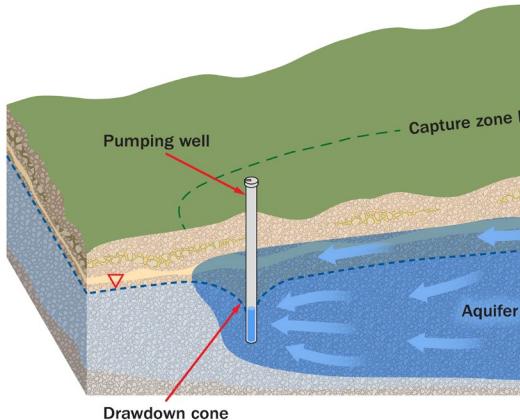
Your water rates pay for delivering high quality water to your door. Your water rates also help the City meet its mission of the City is making a number of improvements to its overall water system to ensure the reliability and quality of its water and to meet the needs of the community. The City also funds planning and conservation programs, water supply and wastewater treatment facilities, and building and maintenance of the water facilities. Every dollar paid for water is invested in your water system.

Water Use Efficiency Program

The City of Ellensburg has established a goal of 10% or less distribution system leakage (DSL) over the planning period of 2020-2040. In order to accomplish this goal, the City has focused (on an annual basis) on water loss reduction through the areas where underground water leaks may be occurring. The City will also continue to implement change-out programs for all existing water meters in the overall system.

In addition to pumping less water, the City of Ellensburg has established a goal of 10% or less per capita per household residential unit (ERU) by 5% over the next 10 years, then maintaining this demand per ERU for the following 10 years. In order to reach this goal, the City will be making water efficiency

If you have any questions, call us at 509-962-7230



DECEMBER 2021
FINAL APRIL 2024

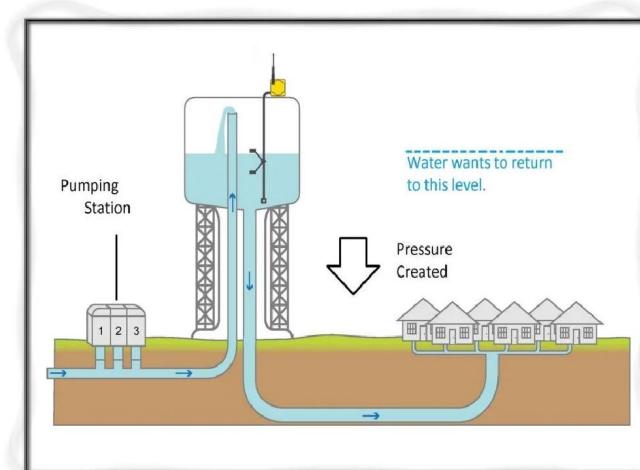
City of Ellensburg



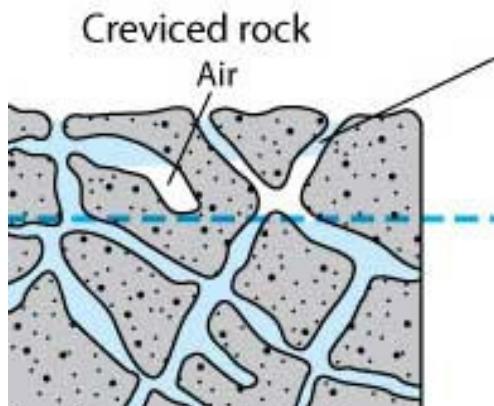
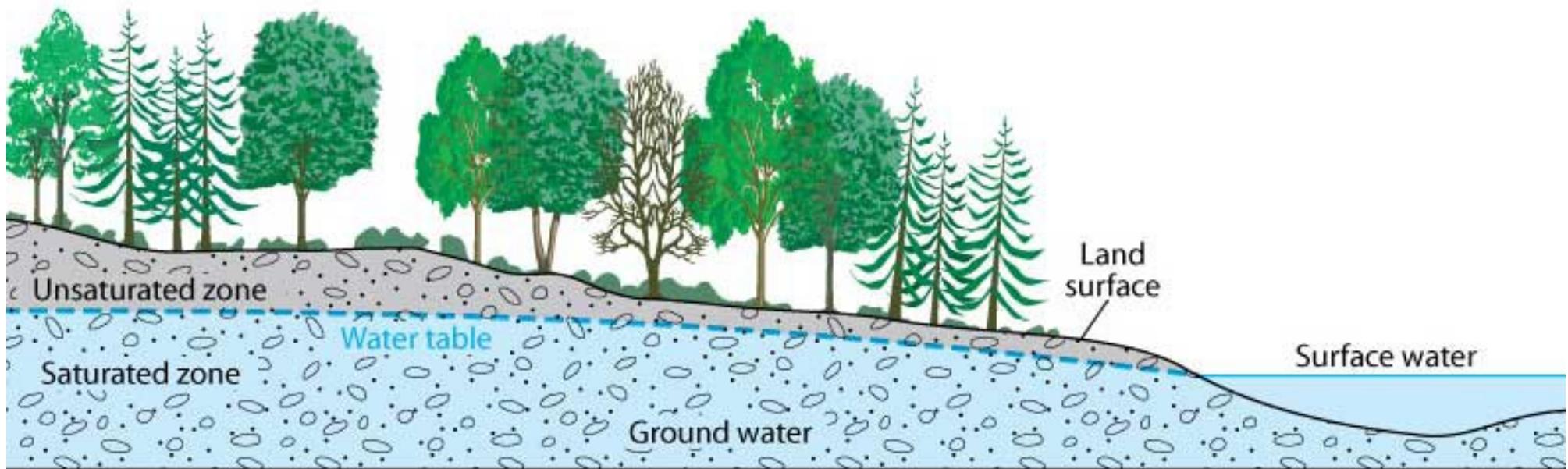
WATER SYSTEM PLAN



PREPARED BY RH2 ENGINEERING



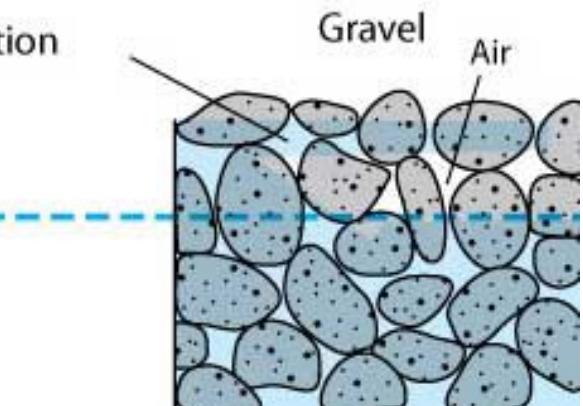
Water in the Environment

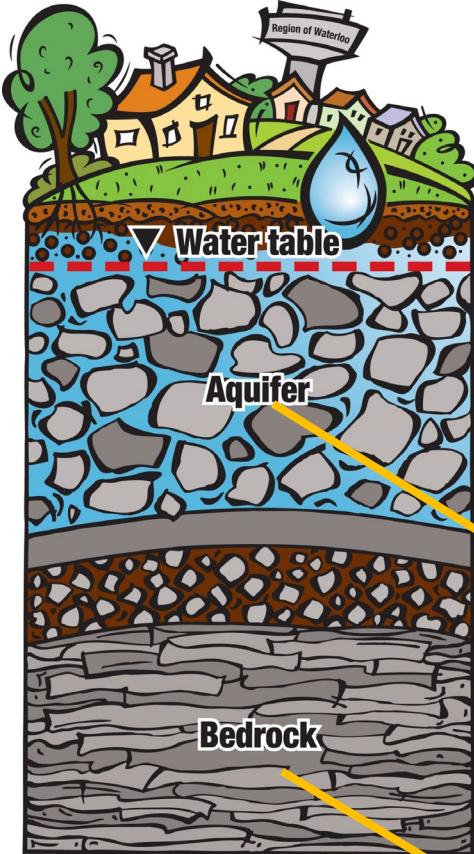


Water (not ground water) held by molecular attraction
surrounds surfaces of rock particles

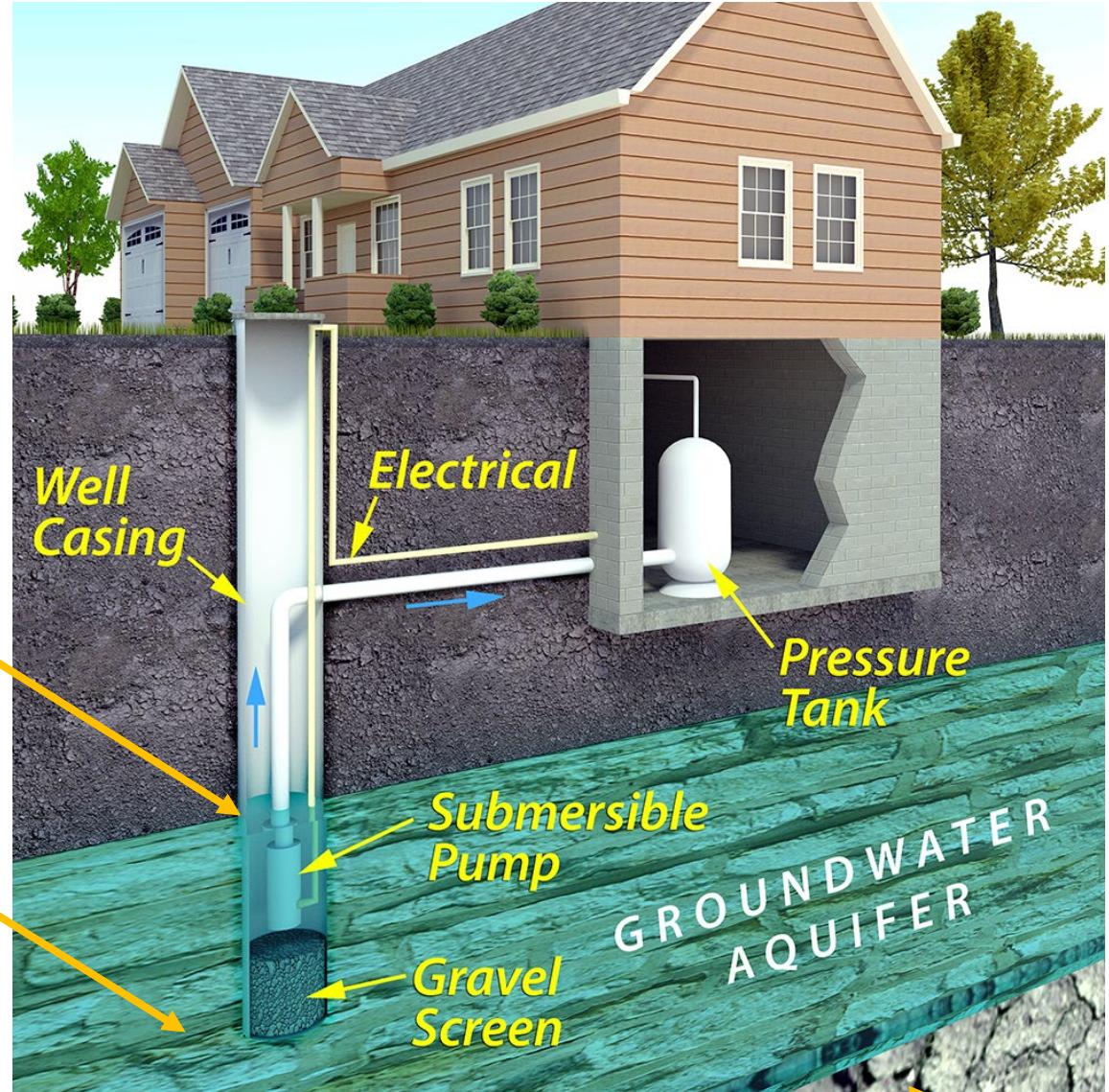
Approximate level of the water table

All openings below water table
full of ground water



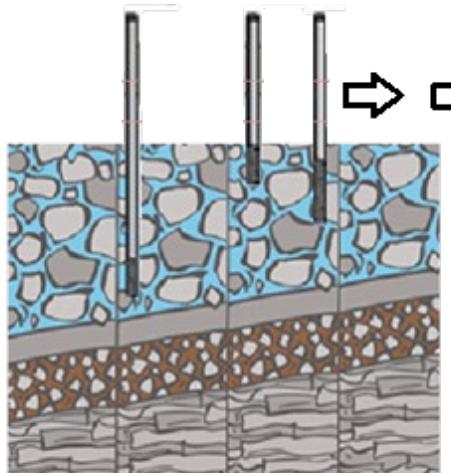


Groundwater Wells

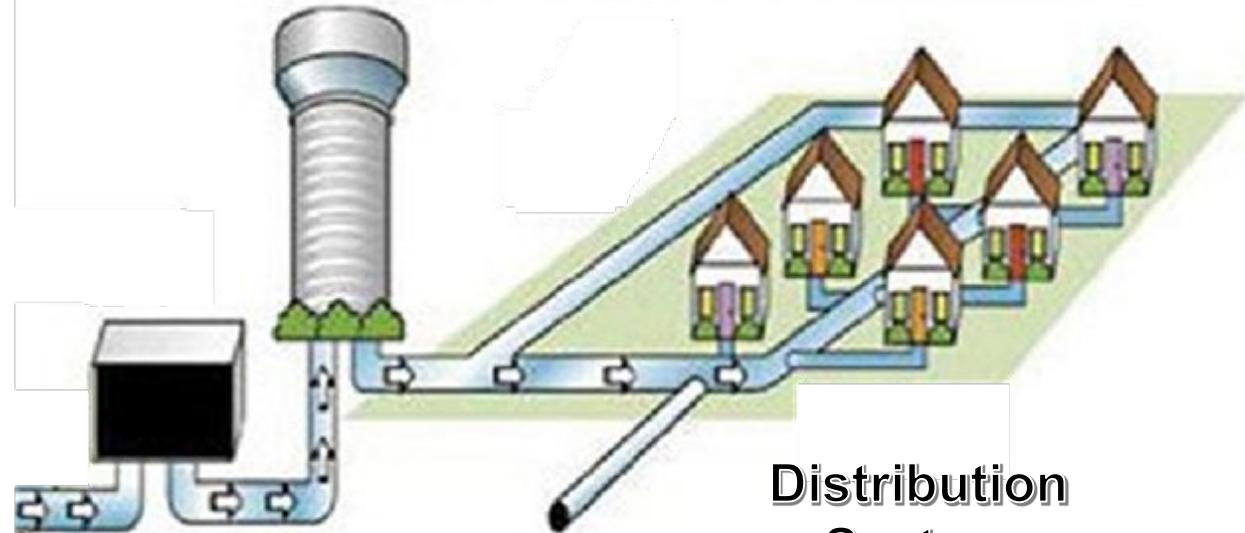




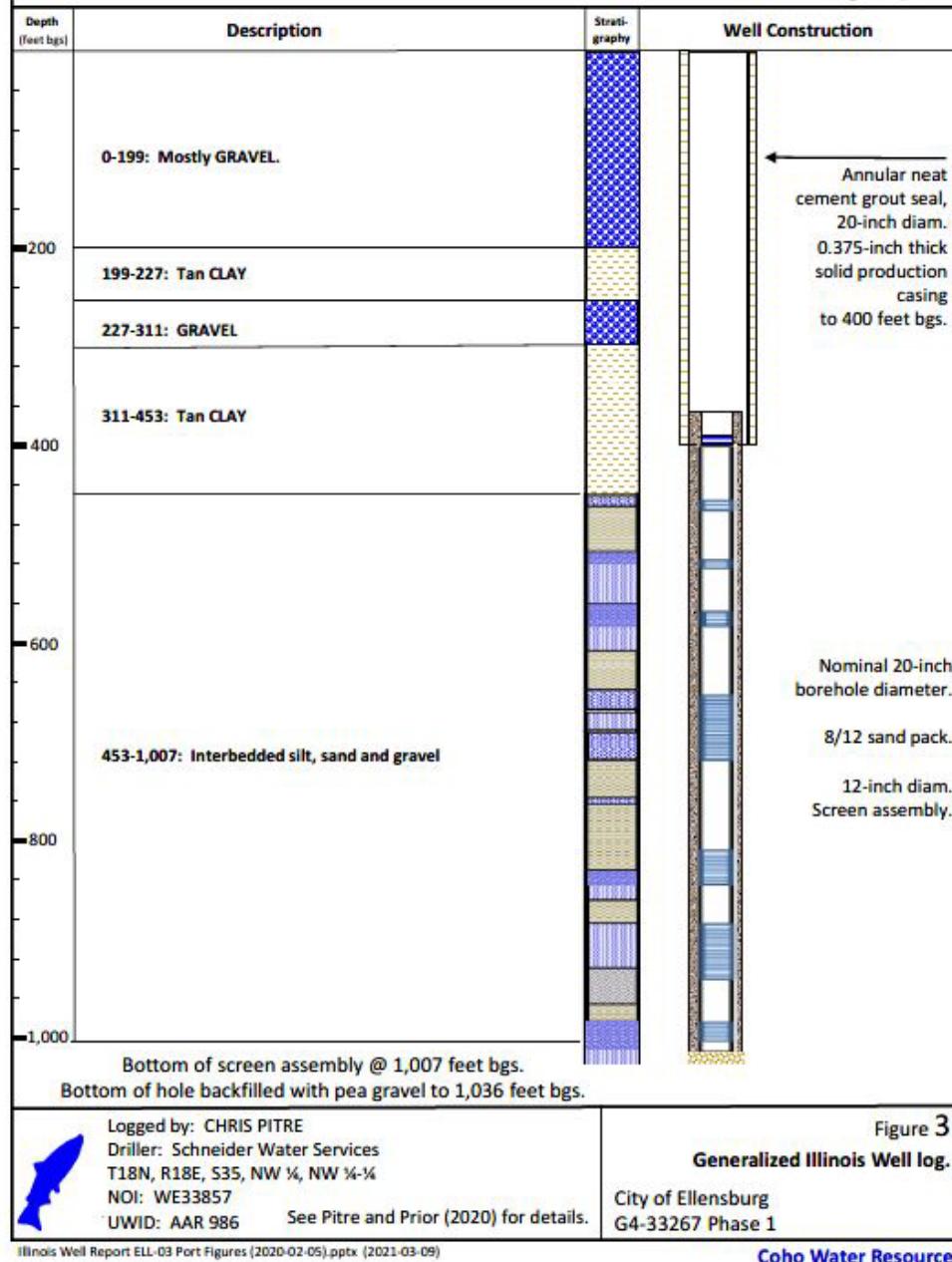
Source Water (wells)



Storage

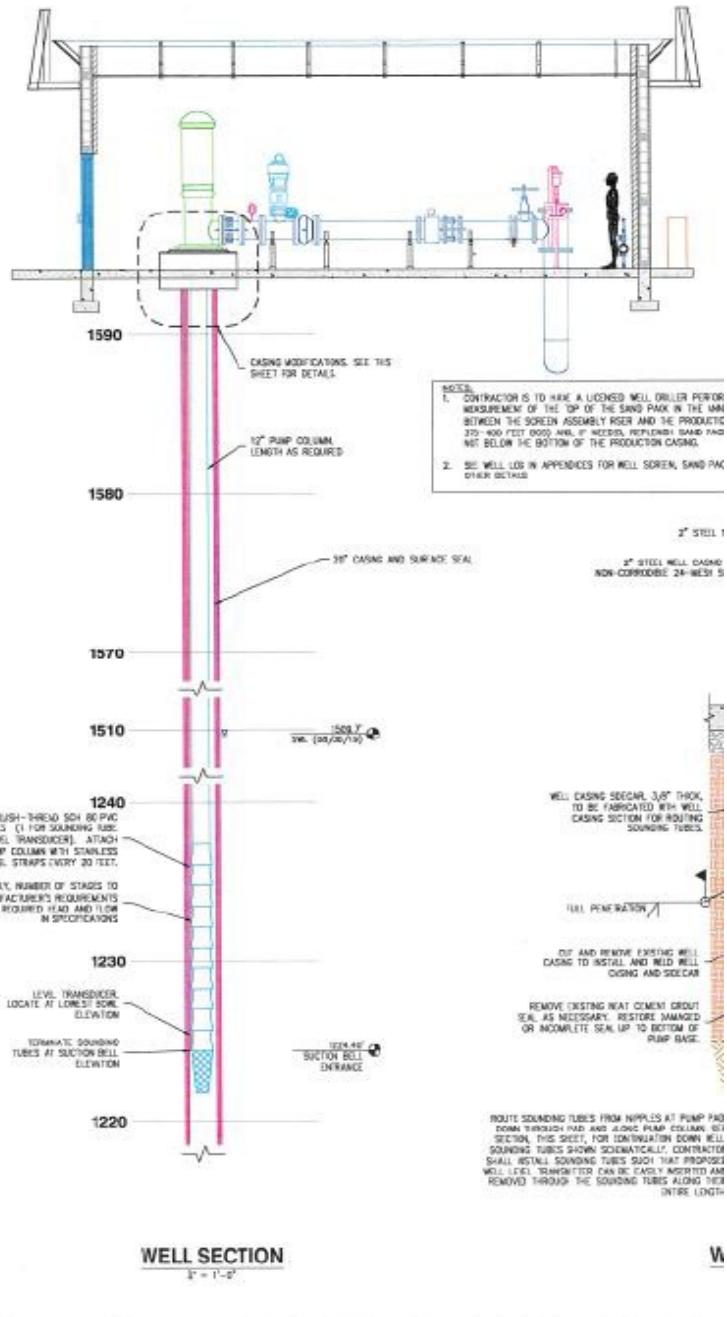


Well Houses



Illinois Well Drilling – History

- Well Drilled in 2019
- 10" Pilot Hole (Collected cutting samples every couple feet)
- Cutting samples are used to design well casing depths and screen locations
- Then full diameter well drilled
 - 20" solid casing to 400' depth
 - 400' to 1007' depth is 12" casing/screen assembly
- After Casing/Screen Assembly Installed; test pumping was done
 - Test pumped up to 3,000 GPM
 - Monitored adjacent deep and shallow wells during test pumping



Illinois Well – Outfitting

- Well Outfitting Design completed after test pumping
- Design completed and project bid in late 2021.
- Construction started mid-2022.
- Material Procurement Issues (Pump, VFD, Motor Controls).
-20 months later, most of the material had arrived.
- Completion was anticipated in mid-Nov.
- Expected to pump 2500GPM, with the ability to pump to the High Pressure Zone and also spill down directly to the Low Pressure Zone.
- Decrease our dependency on the continued operation of the Booster pumps (pump once)!!

Illinois Well



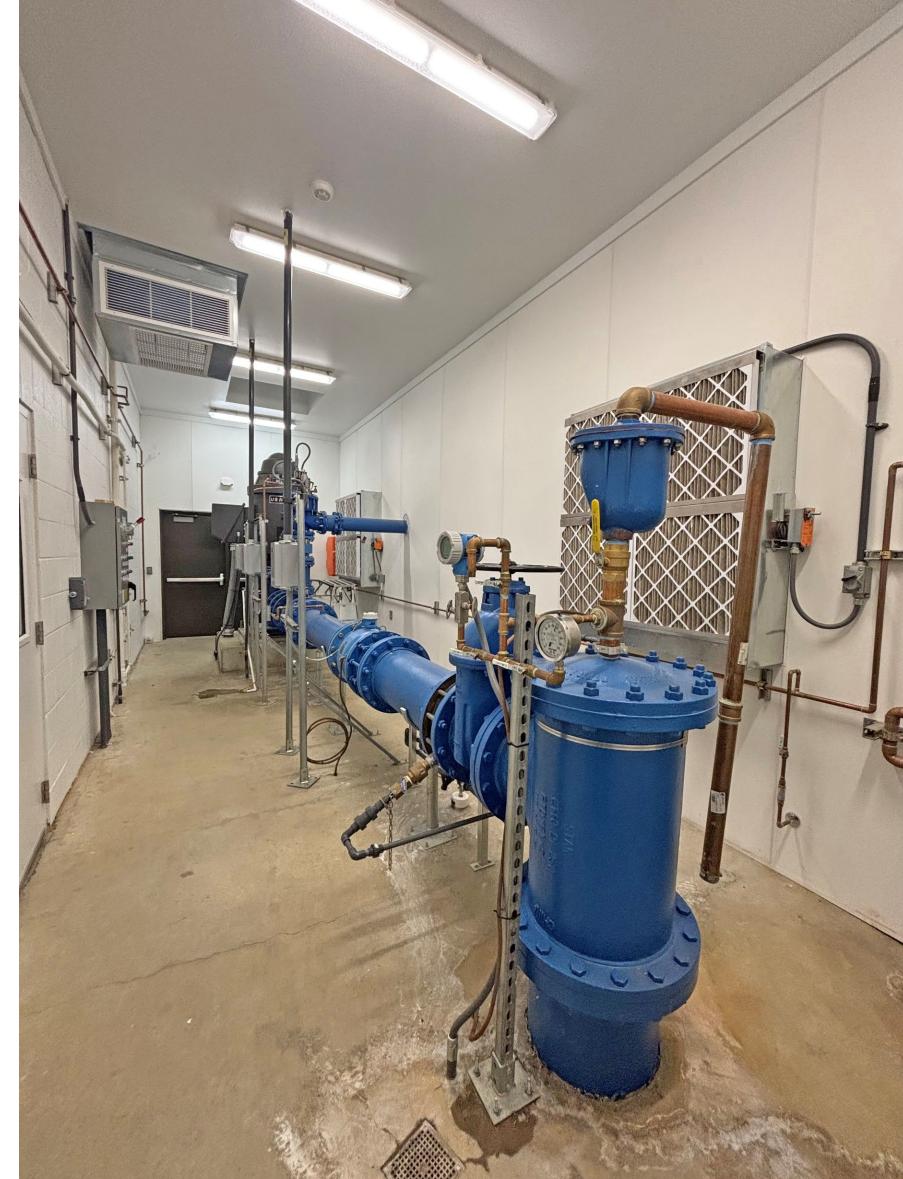
Illinois Well – Outfitting



Illinois Well Control Room



Illinois Well Pump Room



Illinois Well Chlorine Injection Room

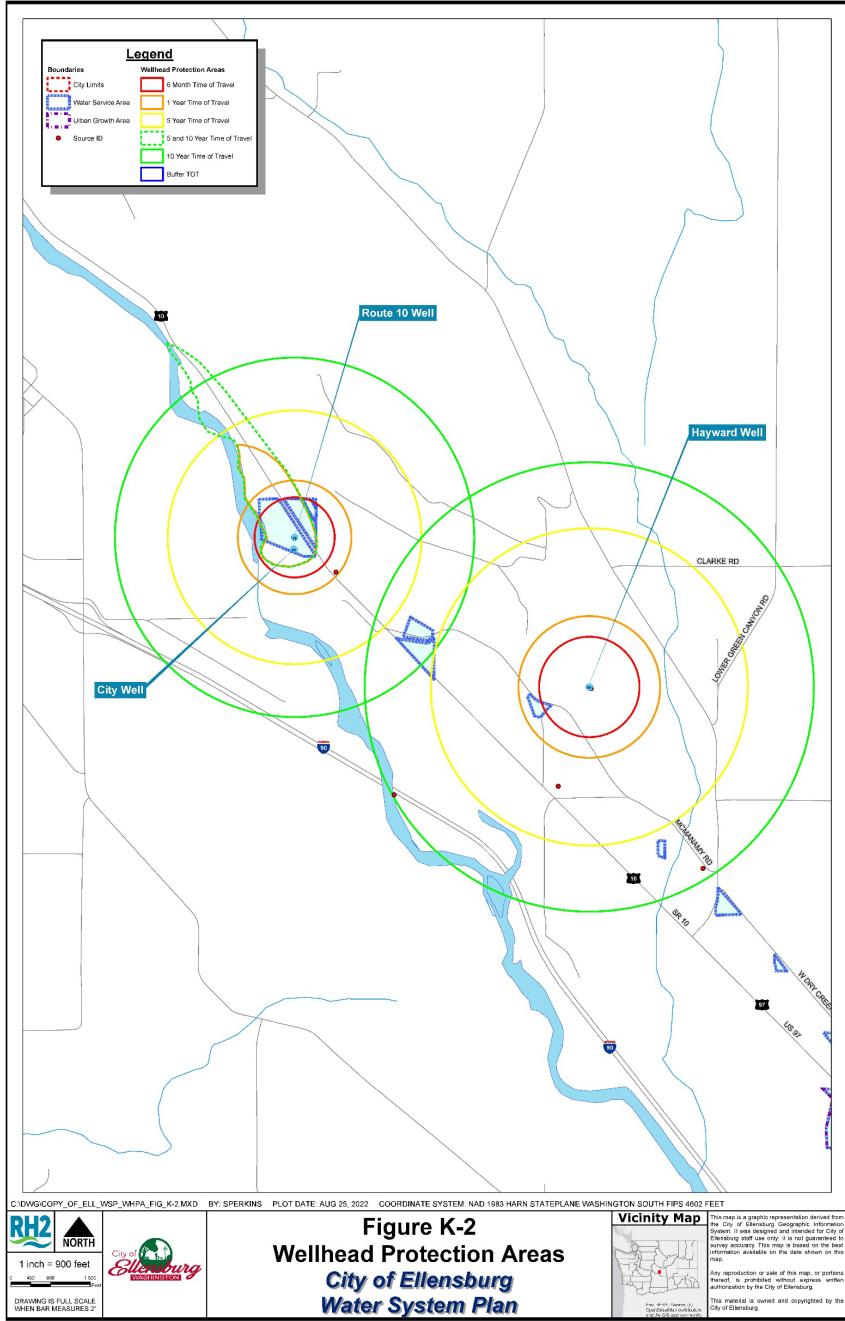


Illinois Well Fluoride Injection Room



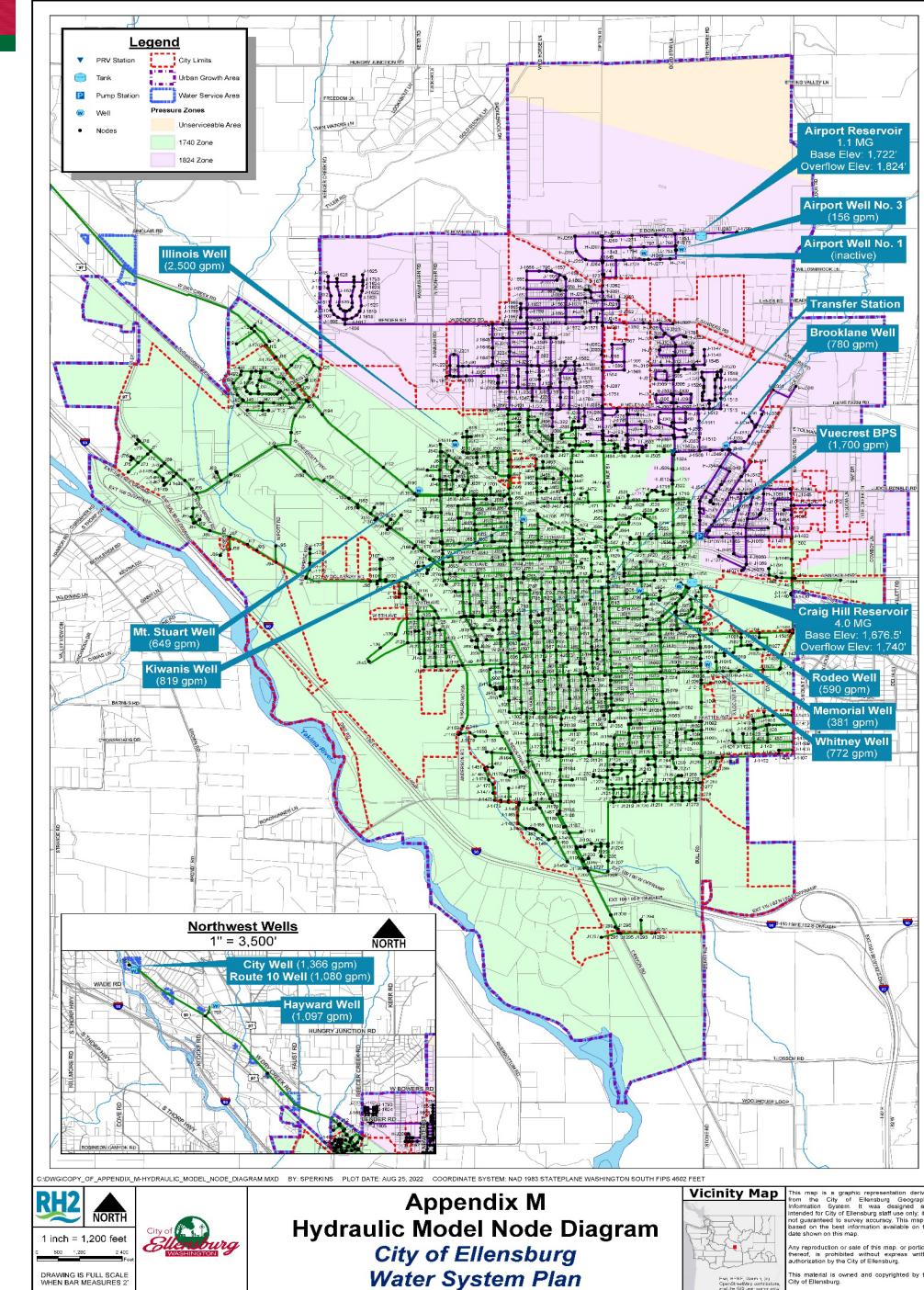
Wellhead Protection Areas

[Link to Figure K-2 Wellhead Protection Areas](#)



Overview of Water System

[Link to Hydraulic Model Node Diagram](#)



Water Towers

Below image: Located on Craig's Hill

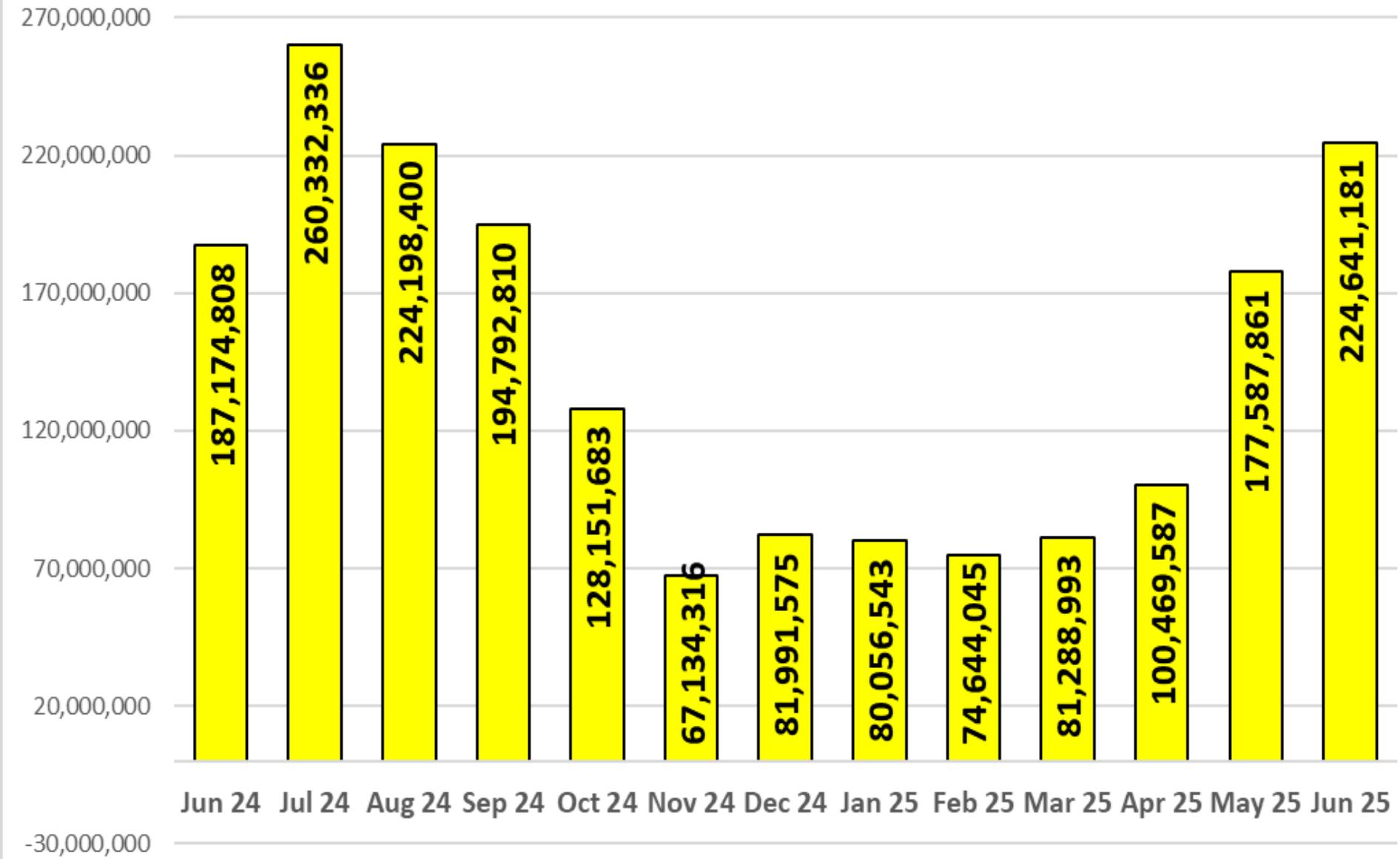


Right image:
Located at Airport





13 Month Pumping Report (Jun 24 - Jun 25)



Questions?

Thank you!



Slides will be posted on the City website.