



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

July 29, 2025

Rebecca Springer, Water Resources Manager
Mike Helgeson, Assistant Public Works Director





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



DECEMBER 2021
FINAL APRIL 2024

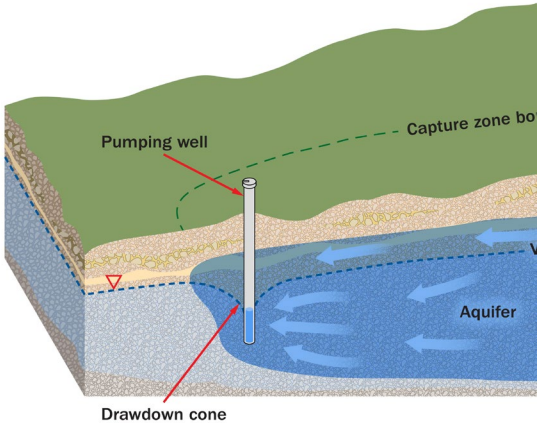


City of Ellensburg

WATER SYSTEM PLAN



PREPARED BY RH2 ENGINEERING



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

The City of Ellensburg Water Division (PWS: 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 and better methods of delivering the best quality drinking water to you. As new challenges to drinking 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 where indicated otherwise, this report is based on the results of our 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 regulators routinely monitor our compliance and testing protocols to ensure safe delivery of drinking water to our customers. 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 near the Yakima River. The City also utilizes one deep well (300 feet to 1250 feet deep). Seven wells are located within the City limits of Ellensburg, and three wells are located outside our boundaries. An additional deep well is owned by Central Washington University and is utilized by the City to supplement summer demands. The water pumped from these wells is blended together throughout our system.

We are fortunate to benefit from high quality water sources. These sources are treated with chlorine prior to entering the distribution system for disinfection purposes. Fluoride is also added as the water enters the distribution system.

Ellensburg Water: A Great Value!

Your water rates pay for delivering high quality water to your door and keeping the water system in top condition. Currently, the City is making a number of improvements to its overall water system to ensure the reliability and quality of its water and its service. The money received from water customers funds planning and conservation programs, water supply and treatment, system operation and maintenance, 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 set 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 hired (on an annual basis) an outside leak detection contractor to help pinpoint where underground water leaks may be occurring. The City will also continue its comprehensive meter change-out program for all aging meters in the overall system.

In addition to pumping less water, the City of Ellensburg has established a goal of reducing overall demand per equivalent 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

educational materials available to the public at large through various distribution methods.

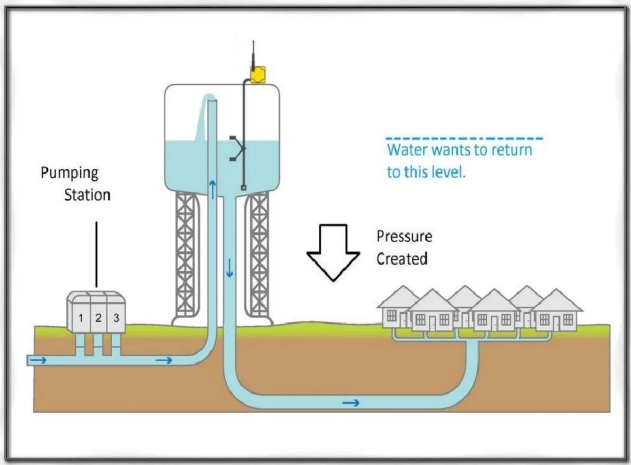
Additional Information About Water Quality

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in water sources are microbes, pesticides, herbicides, naturally occurring radioactive materials, organic and/or inorganic chemicals.

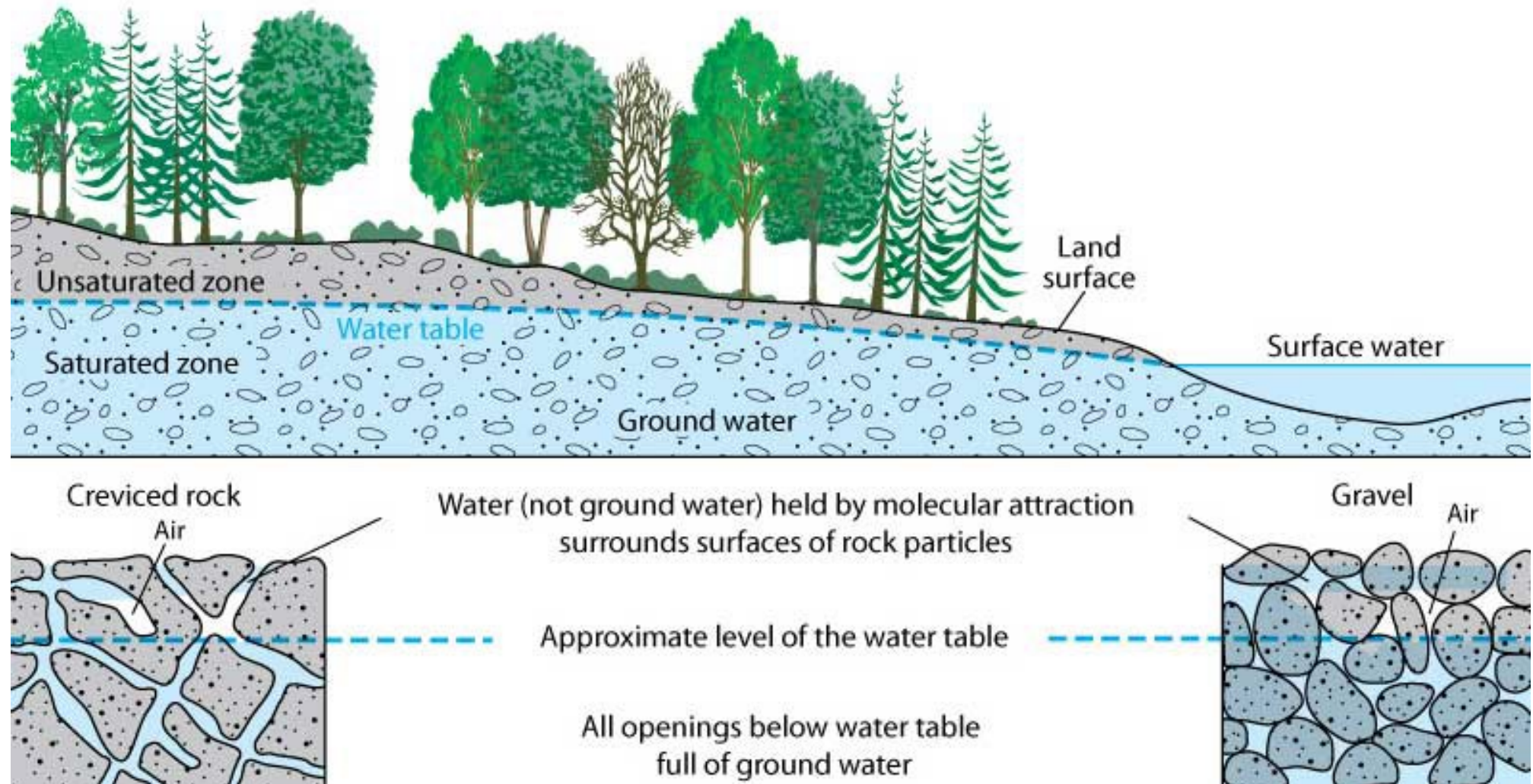
To ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) sets limits on the amount of certain contaminants that can be present in water provided by public water systems. The Food and Drug Administration (FDA) sets the limits for contaminants in bottled water. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by visiting the EPA's Safe Drinking Water hotline (1-800-426-4791).

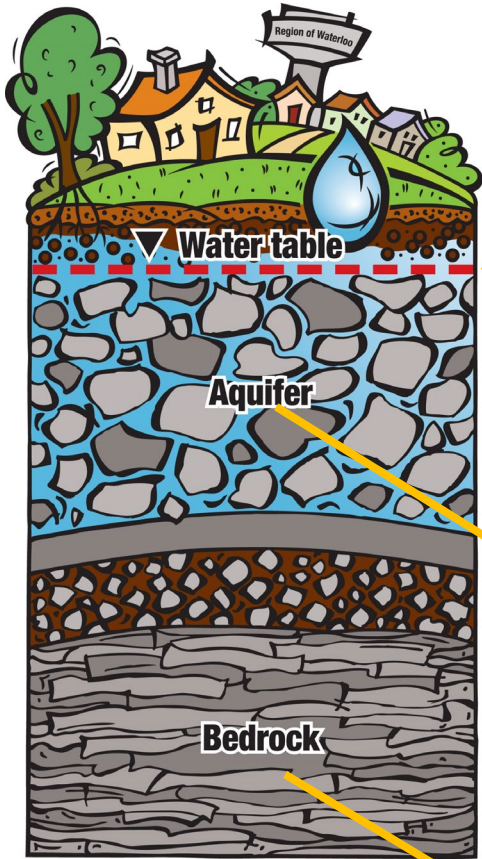
Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

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

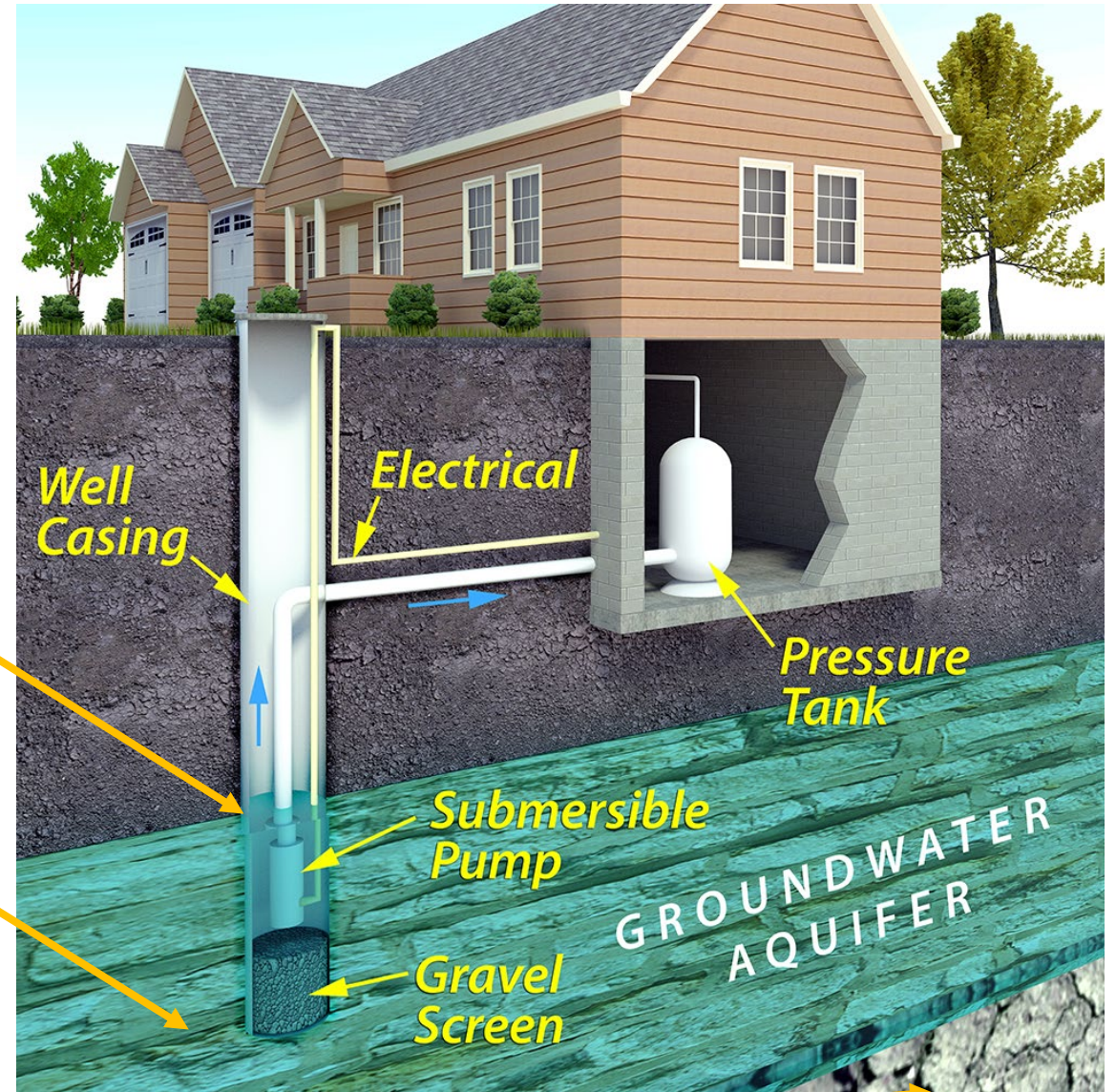


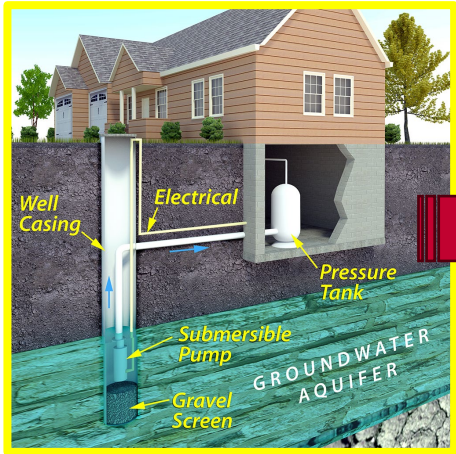
Water in the Environment



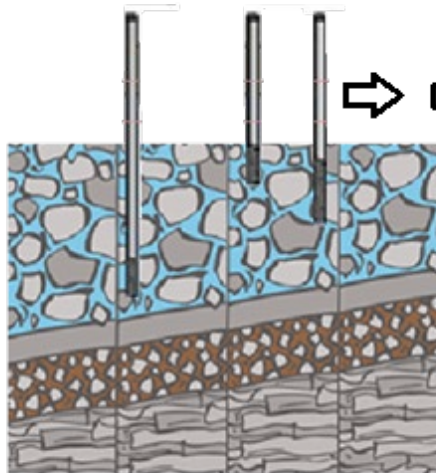


Groundwater Wells



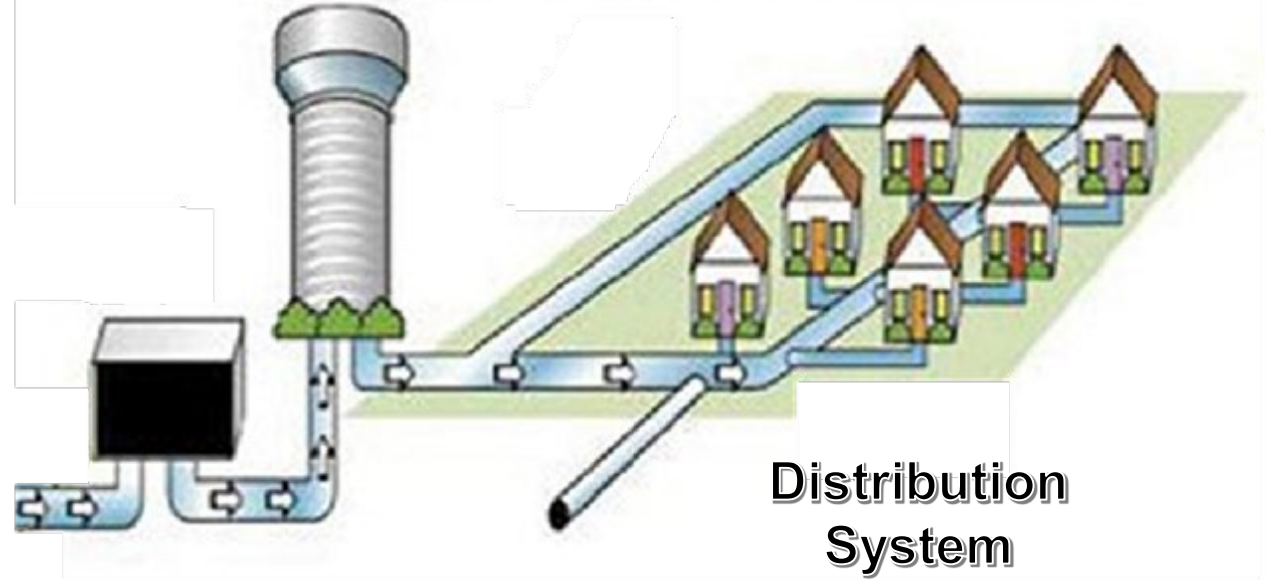


Source Water
(wells)

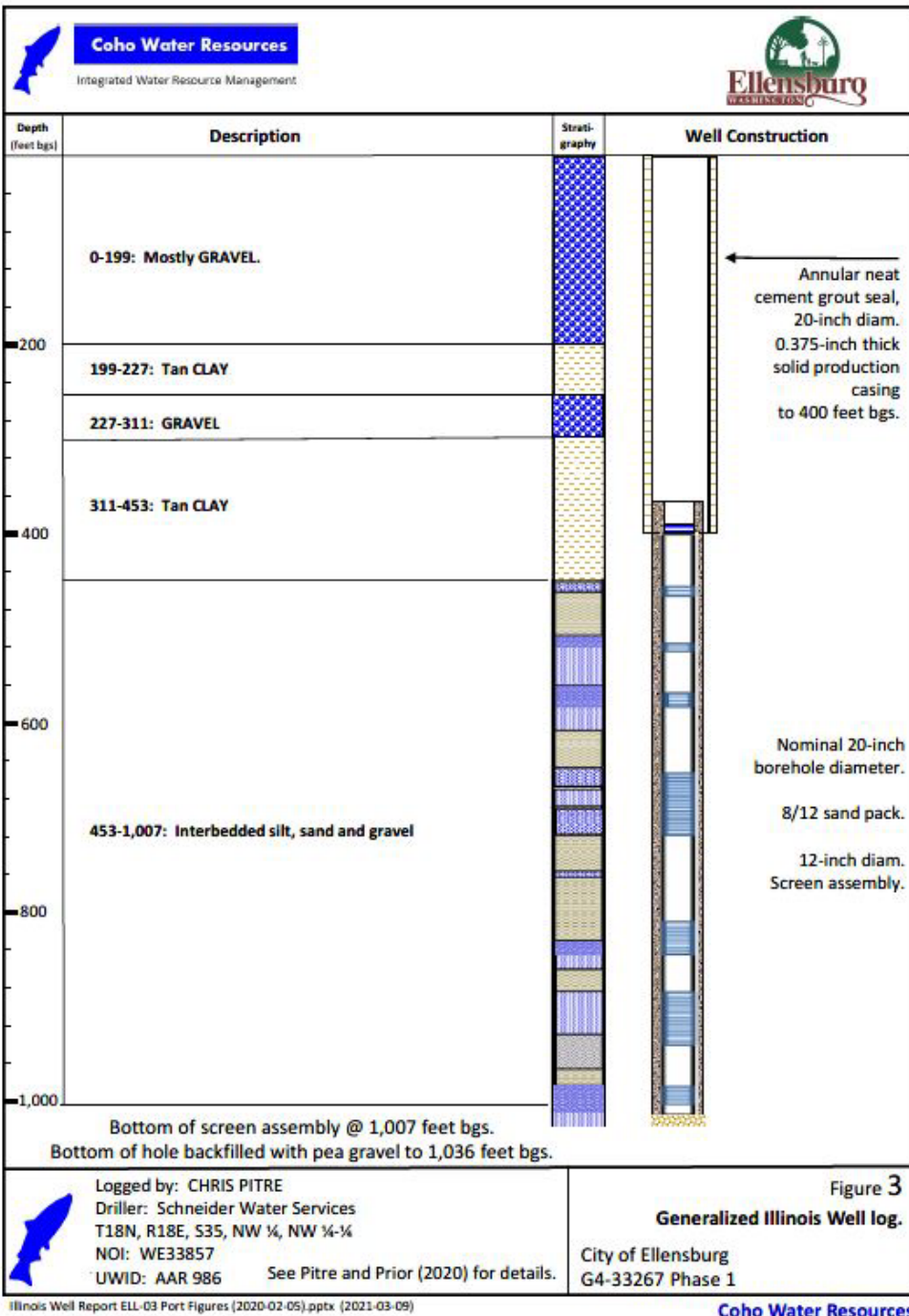


Well Houses

Storage



Distribution
System

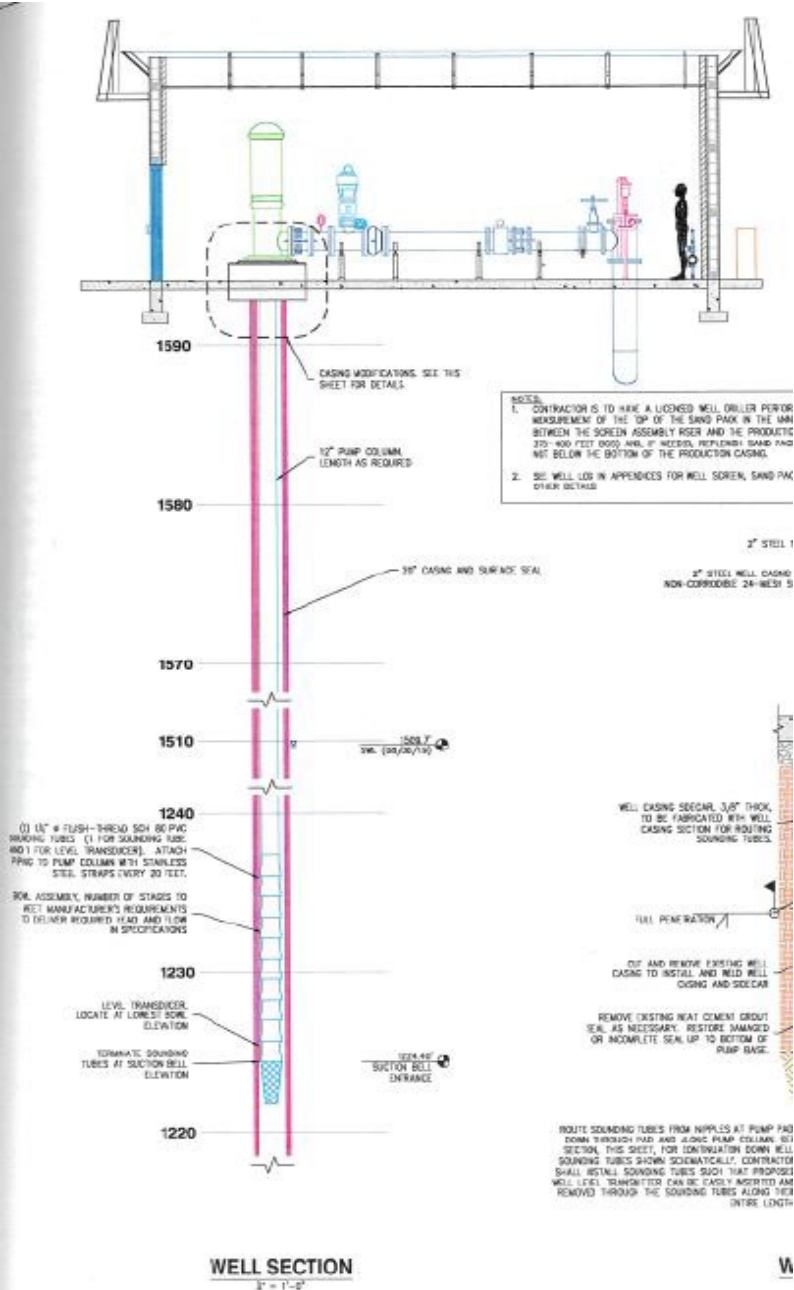


Illinois Well Drilling – History

- 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

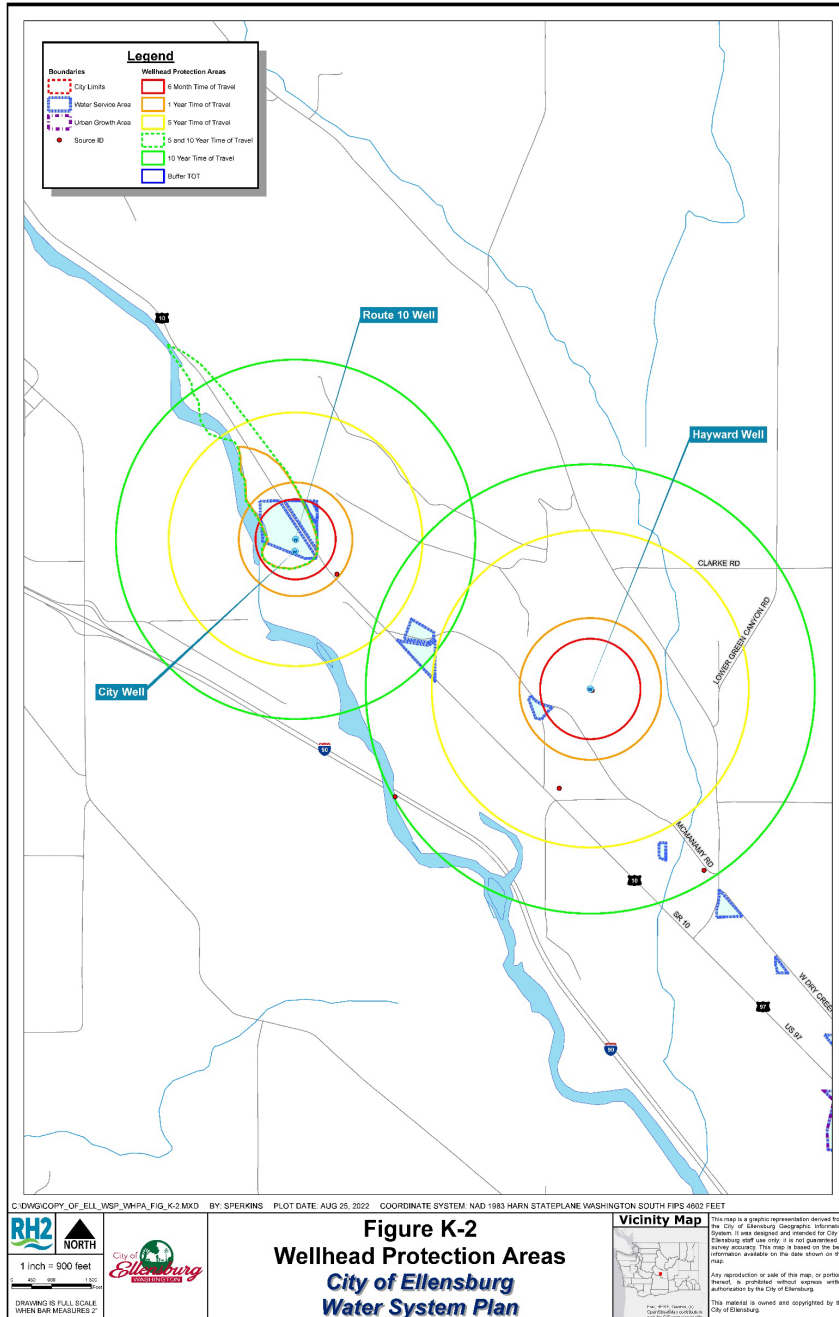


Illinois Well Fluoride Injection Room



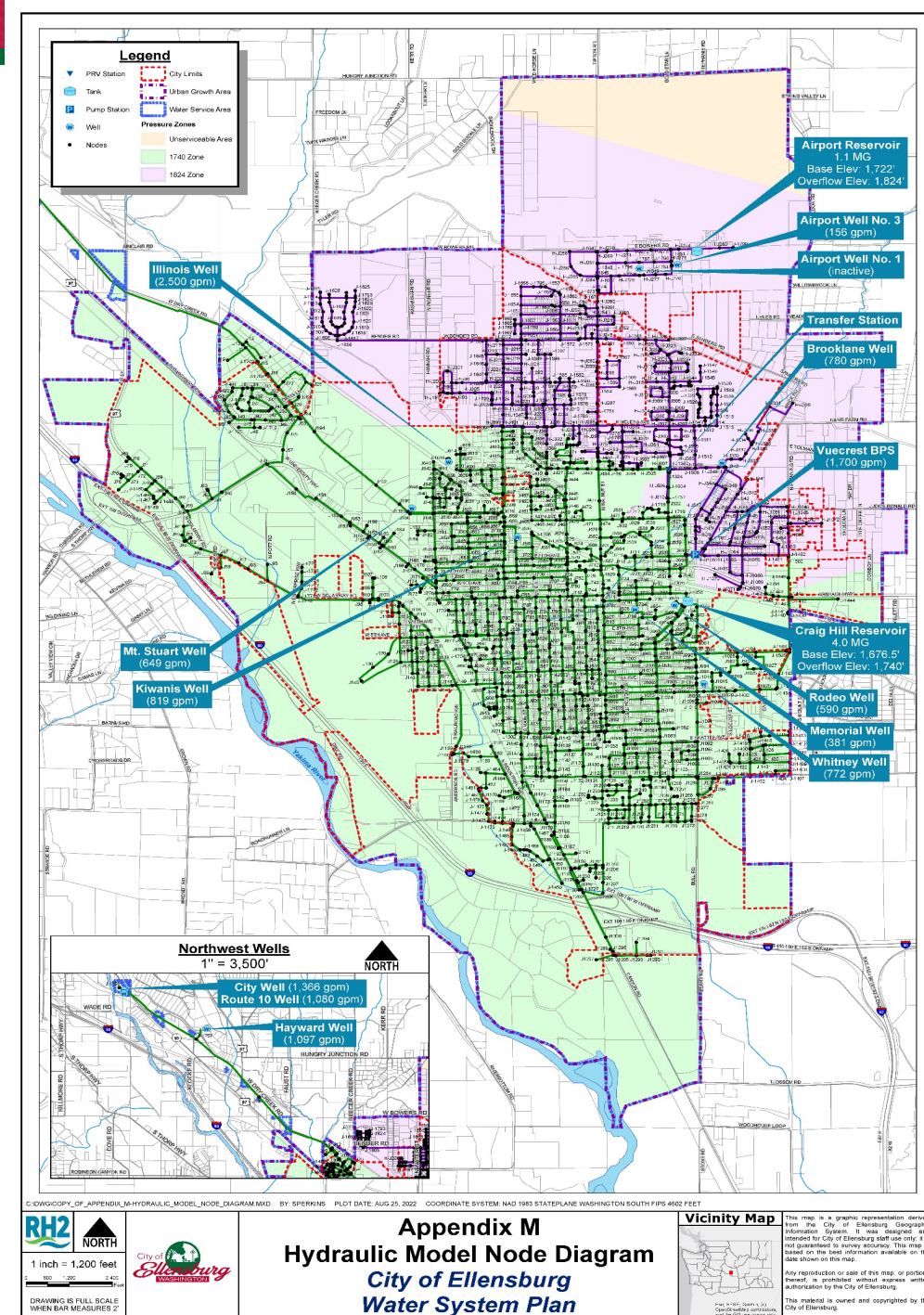
Wellhead Protection Areas

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



Overview of Water System

[Link to Hydraulic Model Node Diagram](#)



Water Towers

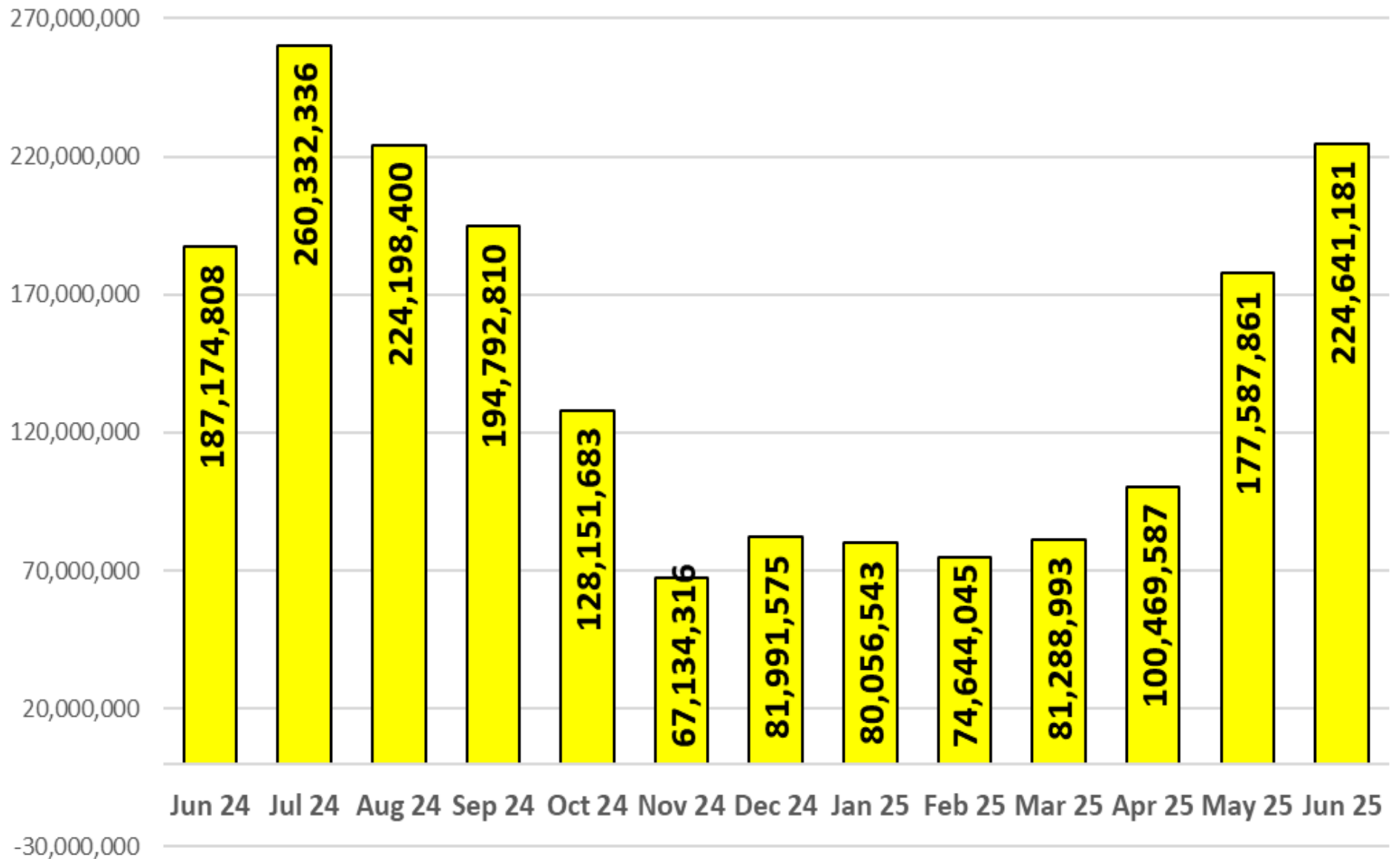
Right image:
Located at Airport

Below image: Located on Craig's Hill





13 Month Pumping Report (Jun 24 - Jun 25)



Questions?

Thank you!



Slides will be posted on the City website.