

January 29, 2026

Ryan Dougherty, PE, RG, CWRE
Hydrogeologist and Water Resources Engineer
Summit Water Resources
Via email: rdougherty@summitwr.com

Re: Water Supply Wells (PR#1-2026)
City of Jefferson (PWS ID#00408)
Site Plan Approval

Dear Ryan:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the water supply wells project for City of Jefferson. On December 30, 2025, our office received a site plan, well construction specifications, land use compatibility statement and water rights information. A plan review fee of \$3,300 was received on January 5, 2026.

The project includes drilling up to six wells to provide approximately 600 gallons per minute capacity for the City to use during the planned drawdown of Detroit Lake later this year. The City plans to put the water through the existing surface water treatment plant. Three of the well sites are within 500 feet of the Santiam River and sewage lagoons, while three of the sites are within 500 feet of mapped wetlands. Our geologist reviewed the proposed construction specifications and details of his review are on the second page.

The project is granted site plan approval. Once construction of the well is complete, please submit:

1. The well driller's reports (well logs).
2. Well pumping test information including static water level, pumping rate, drawdown and rate of recovery for each well.
3. Pump information.
4. Raw (Untreated) Water Quality Data including coliform bacteria, nitrate and arsenic. These are to be taken from each new well's raw water sample tap at the wellhead.
5. Engineered plans that show the above-well structure detail including the well house, concrete slab, drainage, pump-to-waste piping and plans and specifications for connection of the new wells to the water system.

The above items should reference Plan Review #1-2026 and can be emailed to me at Carrie.L.Gentry@oha.oregon.gov.

A regional geologist in our program reviewed the proposed well construction. He noted the following, which should be shared with the well driller:

- The preliminary design for all wells appears to be appropriate for the proposed locations.
 - The estimated depth to a water-bearing zone for all wells is approximately 18 feet.
 - The aquifer nature for all wells is expected to be unconfined.
 - The estimated depth of the casing seal for all wells is 18 feet.
- Wells #6, #7 and #8 are within 500 feet of sewage lagoons and the Santiam River. Wells #9, #10 and #11 are within 500 feet of mapped wetlands. Given the aquifer materials that are likely present and the likely unconfined nature of the aquifer, it is likely that there would be a groundwater under the direct influence of surface water (GWUDI) concern associated with these locations. However, treatment of the well water via the surface water treatment plant would mitigate the GWUDI concern. If it is proposed later to discontinue surface water treatment of the well water, it is likely that monthly source water assessment monitoring would be required prior to treatment removal to address the GWUDI concern.

If you have any questions, please feel free to call me at (971) 201-9794.

Sincerely,



Carrie Gentry, PE
Regional Engineer
OHA-Drinking Water Services
Carrie.L.Gentry@oha.oregon.gov

cc: Chantal Wikstrom, REHS, OHA/DWS
Jeff Buskirk, Public Works Director, City of Jefferson
Peter Blumenthal, PE, Westech Engineering
Tommy Laird, OWRD Well Construction Inspection Program Coordinator
Kris Byrd, OWRD WCC Section Manager