

January 29, 2026

Jim Newton, PE, RG, CWRE
Principal – Engineer-Geologist
Cascade Geoengineering, LLC
Via email: newtonjim@hotmail.com

**Re: Well #3 (PR#150-2025)
Westridge Subdivision (PWS ID#05998)
Site Plan Evaluation**

Dear Jim:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new well for Westridge Subdivision. On December 1, 2025, our office received a site plan, drilling specifications, land use compatibility statement and water rights information. A plan review fee of \$875 was received on December 3, 2025. \$50 was refunded.

The project includes drilling a well to approximately 85 feet below ground surface. The submitted site plan indicates that a roadway is located within the 100' radius of control of the well. Our geologist reviewed the proposed construction. Details on his review are included on the second page. Please note his comments on constructing this well into an unconfined versus confined aquifer.

As noted above, there is a roadway within the 100' radius of control/setback from sanitary hazards. A waiver for the roadway within the radius of control/setback cannot be approved prior to drilling a well. If the well is properly drilled into a confined aquifer, then OHA/DWS may be able to waive the requirement. If the well is not drilled into a confining aquifer, then OHA/DWS may not be able to approve the well for use by the water system.

Due to the location of the roadway within the 100' radius of control, **the site plan/location cannot be approved at this time.** If a properly constructed confined aquifer well is drilled, please submit:

1. The well driller's report (well log).

2. Information must be submitted that demonstrates how the well is "...protected against contamination from surface runoff or hazardous liquids which may be spilled on the roadway and is protected from unauthorized access".
3. Well pumping test information including static water level, pumping rate, drawdown and rate of recover.
4. Pump information.
5. Raw (Untreated) Water Quality Data including coliform bacteria, IOCs (including nitrate, nitrite and arsenic), SOC's, VOCs and radionuclides. These are to be taken from the new well's raw water sample tap at the wellhead.
6. 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 reconnection of the well to the water system.

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

- The proposed seal depth of 30 feet below ground surface (bgs) appears to meet minimum construction standards for a well constructed into an unconsolidated formation without significant clay beds. If the well is constructed as proposed, the nature of the aquifer will likely be **unconfined**. Final determination of the aquifer nature will not be made until the well is drilled and construction is complete.
- If the water system is looking to construct the well into a confined aquifer, the proposed well may need to be sealed to a greater depth. Based on Westridge Subdivision's Well #3 (CROO54814), the well may need to be sealed into a consolidated layer (described as claystone) directly overlying the water bearing zone, which is at approximately 77 feet bgs.
- Prior to any seal placement/final construction, the well driller will need to contact Tommy Laird, OWRD Well Construction Coordinator (503-302-8618) for information and approval on the method and final depth of the casing seal placement.
- Because of the location of the seasonal irrigation ditch, the well will need to be evaluated for potential groundwater under the direct influence of surface water (GWUDI) once the well log is available to review.

The above items should reference Plan Review #150-2025 and can be emailed to me at Carrie.L.Gentry@oha.oregon.gov.

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: Josh Seerup, OHA/DWS
Max Hamblin, Crook County Environmental Health
Bob Cage, Westridge Subdivision, bobcage423@gmail.com
Tommy Laird, OWRD Well Construction Inspection Program Coordinator
Kris Byrd, OWRD WCC Section Manager