

July 2, 2025

Don Veenker
Barlow Water District
Via email: donbwid@gmail.com

**Re: New Well (PR#80-2025)
Barlow Water District (PWS ID#00909)
Site Plan Approval**

Dear Don:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new well for Barlow Water District. On May 30, 2025, our office received a site plan and proposed well drilling specifications. A plan review fee of \$3,300 was received on June 12, 2025.

The project includes drilling a well to replace the existing Well #2. The well will be located on the same site as the existing well, approximately 20' away. The construction of the existing Well #2 is considered adequate, so the spacing is acceptable. There is a man-made pond approximately 200' away, although it is noted as not being in use. The pond would be considered a surface water source if it were in use, and our geologist would need to determine whether any additional sampling is required once the well is drilled and the well log has been evaluated. Since the pond is currently dry, our geologist does not see it as an issue at this point.

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

1. The well driller's report (well log).
2. Well pumping test information including static water level, pumping rate, drawdown and rate of recovery.
3. Pump information.
4. Raw (Untreated) Water Quality Data including coliform bacteria, IOCs (including nitrate and arsenic), VOCs, SOCs and radionuclides. These are to be taken from the 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 well to the water system.
6. A copy of the Water Right Permit from WRD, if a water right permit is required.

The above items should reference Plan Review #80-2025 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 estimated depth to a water-bearing zone is about 380 feet below ground surface (bgs) based on wells WASC 3560 and WASC 50956.
- The aquifer nature is estimated to be confined.
- The estimated depth of the casing seal is about 127 to 140 feet bgs based on the well logs referenced above. The area around the well is surficially mapped as Quaternary sedimentary rocks and deposits. The well casing and seal for the new well will need to extend from land surface to a minimum of five feet into solid uncreviced, consolidated rock formation (basalt) overlying the water bearing zone (see OAR 690-210-0150 and 690-210-0155). It is recommended that the water system and driller consult with Oregon Water Resources Department (OWRD) prior to seal placement and final construction.

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, REHS, OHA/DWS
Jessie Elias, REHS, North Central Public Health District
Tommy Laird, Well Construction Inspection Program Coordinator, OWRD
Travis Kelly, Well Construction Inspection Program Coordinator, OWRD