



June 28, 2022

Chris Bland
Skyles Drilling, Inc.
21912 S. Beaver Creek Rd.
Oregon City, OR 97045

Re: **Proposed Well (PR#98-2022)**
Roth Water System (PWS ID#95683)
Site Plan Approval

Dear Chris:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new well for Roth Water System. On June 8, 2022, our office received a site plan and a site map of the proposed area. A plan review fee of \$825 was received on June 23, 2022.

The project includes drilling a well on the west side of the Roth Heating and Cooling property.

Under OAR 333-061-0060(1)(b), submittals must be prepared by a Professional Engineer registered in Oregon, unless exempted by DWS. Note that by utilizing this exemption, the water system takes full responsibility for the project.

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

- Nearby well logs (CLAC58517 & CLAC12939) indicate that the shallow subsurface is dominated by sand and gravel with occasional clay lenses (all less than 15ft thick). Both well logs suggest that the water-bearing zones within 130 ft of the surface are unconfined. Deeper confined water-bearing zones might be present, however this evaluation did not attempt to identify deeper well logs for review. A significant clay layer that might act as a confining layer would be a minimum of 15 ft thick and the casing seal would need to extend a minimum of 5 ft into it. This analysis is preliminary, final analysis is dependent on materials encountered during drilling, reported static water-level, and review of the Well Drillers Report.

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, nitrite and arsenic), SOCs, VOCs 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 #98-2022 and can be emailed to me at keith.male@dhsosha.state.or.us.

If you have any questions, please feel free to call me at (503) 939-1322.

Sincerely,



Keith Male, EIT
Regional Engineer
Drinking Water Services

ec: Julie Wray, DWS
Carrie Gentry, OHA/DWS
Joel Ferguson, REHS, Clackamas County Health Department