



July 2, 2024

Chris Gifford (ccgifford@msn.com)
23494 East Wind Tree Loop
Rhododendron, OR 97049

Sent by email only.

**Re: Proposed Well & Waterlines (PR#76-2024)
Wind Tree POA (PWS ID#06247)
Site Plan Evaluation & Conditional 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 Wind Tree POA. On May 28, 2024, our office received a set of plans. A plan review fee of \$825 was received on May 24, 2024.

The project includes drilling a new well in Tract "B" inside Wind Tree Loop and installing a 4" class 200 PVC loop for distribution to customers. The project also includes a new proposed well house near the location of Well No. 2 on the northeast side of Wind Tree Loop.

For the proposed well:

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

- Based on the nearby well logs, the area appears to be dominated by sands and gravels to a depth of 80 to 90 ft below which there may be silt overlying basalt. The proposed drilling site appears to be within 400 ft of Hackett Creek. Given the likelihood that the aquifer will be composed of sand and gravel, the chances that there will be a Groundwater Under the Direct Influence of Surface Water (GWUDI) concern are minimal. Final GWUDI evaluation to be made by OHA-DWS after a well log has been submitted for review.
- The estimated depth to the water-bearing zone is 5 to 15 ft based on nearby well logs CLAC53131 & CLAC 53132
- The aquifer is unconfined.
- The estimated depth of casing seal is a minimum of 18 ft.

As the proposed well will be within 100' of a roadway and drilled in an unconfined aquifer, **the site plan cannot be approved prior to drilling a well.** If the well is properly drilled at least 100' from the roadway, then the well will meet the roadway setback requirement in Construction Standards section [333-061-0050 \(2\)\(a\)\(D\)](#) of the OARs.

Due to the proposed well location within 100' of the roadway, **the site plan/location cannot be approved at this time.** If a properly constructed well is drilled at least 100' from the roadway and other sources of contamination, 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 recover.
3. Pump information.
4. Raw (untreated) Water Quality Data for coliform bacteria, IOCs (including nitrate, nitrite and arsenic), SOCs, VOCs and radionuclides. These should be taken from the new well's raw water sample tap at the wellhead. This source sampling will be required if Wind Tree POA ever becomes classified a Community Water System.
5. A copy of the Water Right Permit from WRD, if a water right permit is required.

For the distribution system:

The plans are approved with the following conditions:

- Provision must be made at all bends, tees, plugs, and hydrants to prevent movement of the pipe or fitting.
- The design must allow for 20 psi to be maintained at all service meters.
- After disinfection of the waterlines is completed according to AWWA C651, results from the coliform sampling must be provided to OHA/DWS.
- All items in contact with potable water must meet NSF Standard 61.

Until we receive verification that the conditions have been met and final approval has been issued, the waterline is not approved for use. Upon completion of the project, the engineer must verify in writing that construction was completed according to the submitted plans. If substantial changes are made, a set of as-built drawings must be submitted. Documentation demonstrating how the above conditions were met should reference Plan Review #76-2024 and can be emailed to me at keith.male@oha.oregon.gov.

If you have any questions, please feel free to call me at 503-939-1322 or email me at keith.male@oha.oregon.gov.

Sincerely,



Keith Male, PE
Regional Engineer
Drinking Water Services

cc: Julie Wray, DWS
Joel Ferguson, REHS, Clackamas County Health Department
Amy Landvoigt, District 20 Water Master
Tommy Laird, Well Construction Program Coordinator, OWRD