



PUBLIC HEALTH DIVISION
Drinking Water Services
Tina Kotek, Governor

Oregon
Health
Authority

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August 10, 2023

Andres Romero, PE
J-U-B Engineers, Inc.
3611 S. Zintel Way
Kennewick, Washington 99337

**Re: New Well, Plan Review #97-2023, Project PATH Water System, PWS ID #4195716
Site Plan Approval**

Dear Andres:

Thank you for your submittal of plan review information to the Oregon Health Authority's Drinking Water Services (DWS). On July 18, 2023, a site plan and proposed well drilling specifications were received. A signed Land Use Compatibility Statement was received on July 19, 2023. The plan review fee of \$825 was received on July 21, 2023. The project consists of drilling a new well to an approximate depth of 400 feet below ground surface (bgs), with a proposed grout seal to approximately 30 feet bgs. **The proposed site has been reviewed and is approved.**

The proposed well construction was reviewed by our staff hydrogeologist who provided the following comments:

The estimated depth to the water-bearing zone is ~350 feet bgs based on well log L20561. The proposed seal depth of 30 feet bgs appears insufficient. Based on well log L20561, the well may need to be sealed to a greater depth (approximately 260 feet bgs). At a minimum, the well will need to be sealed into the consolidated layer (most likely solid basalt) directly over the water bearing zone. Recommend that the water system and/or driller consult with the Oregon Water Resources Department (OWRD) prior to seal placement.

For more information regarding the well construction into consolidated formations and confined/artesian aquifers, see OWRD Administrative Rules for 690-210-0150 Sealing of Water Supply Wells in Consolidated Formations and 690-210-0155 Additional Standards for Artesian Water Supply Wells.

Please note that if multiple water bearing zones are encountered during the drilling process, the static water level (SWL) for individual water bearing zones will need to be measured in order to determine if separate aquifers are present. If the SWL changes between water bearing zones, the well constructor must seal off separate aquifers in order to prevent the loss of hydrostatic pressure and/or comingling of aquifers.

I also have the following comments:

1. I recommend consulting with the local OWRD watermaster, Greg Silbernagel, regarding the potential need for a water right for the proposed well. His phone number is 541-278-5456.
2. Note that the piping and appurtenances at the well head or pump control building must meet the provisions of [OAR 333-061-0050\(2\)\(a\)\(K\)](#).

After the proposed well is drilled, please submit the following:

1. The well driller's report (well log).
2. Pump test information including static water level, pumping rate, and drawdown/rate of recovery information.
3. The make/model of the well pump and the depth the pump bowls are set.
4. Reports from an Oregon certified lab of raw (untreated) water quality, including: coliform bacteria, nitrate and arsenic. These samples are to be collected from the new well's raw water sample tap at the well head.

Until it is verified that the project meets the construction standards in OAR 333-061-0050 and Final Approval is granted for the project, the new facilities are not approved for use. If you have any questions or would like this in an alternate format, please feel free to call me at (541) 966-0900 or email at william.h.goss@dhsosha.state.or.us .

Sincerely,



William Goss, PE
Regional Engineer

- c: Julie Wray, OHA–DWS, Portland, OR
Scott Coleman, City of Umatilla (pdf copy only)
Ben Haws, PE, JUB Engineers, Inc. (pdf copy only)
Lisa Siefken, PE, JUB Engineers, Inc. (pdf copy only)
Greg Silbernagel, Oregon Water Resources Department (pdf copy only)
Tommy Laird, Oregon Water Resources Department (pdf copy only)