

Tina Kotek, Governor

September 27, 2024

Ryan Dougherty, PE, RG, CWRE
Hydrogeologist/Water Resources Engineer
Summit Water Resources, LLC
Via email: rdougherty@summitwr.com

**Re: Parr Road Well #15 (PR#170-2020)
City of Woodburn (PWS ID#00959)
Final Approval**

Dear Ryan:

On September 3, 2024, our office received additional documentation for the Parr Road Well #15 project including construction of the above ground well details and the connection of the well to the system. Sampling results were previously provided.

The well was drilled in 2021 to a depth of 319 feet. A regional geologist with DWS reviewed the well log construction details and noted the following:

- The below-ground well construction appears to meet current construction standards.
- The well is cased to 310 feet and the casing is sealed to a depth of 262 feet. The casing seal extends through a 50-foot-thick confining layer of sandy clay that is present at a depth of 20 feet. Thirty feet of casing screen was installed from 275 to 305 feet below ground. The annular space below the casing seal has been backfilled with permeable filter pack material. Water enters the well through the filter pack below a depth of 224 feet and then through the casing screen.
- The well draws water from a confined aquifer composed of multiple layers of sand and sand with gravel separated by intermittent layers of silt. The static water level in the well rose nearly 26 feet above the top of the first potential water-bearing zone within the aquifer system indicating that the water within the aquifer is under pressure.
- Results from a sensitivity analysis indicate that the construction of the well does not contribute to the overall sensitivity of the water supply to nearby land use practices and the aquifer is not highly sensitive to nearby land use practices.

The submitted details of the above ground construction appear to meet current construction

standards.

Final approval is issued at this time, and the facility is approved for use.

Note that chemical monitoring schedules at the entry point will be updated in the next week. The water system will need to coordinate with Chantal Wikstrom (copied on this letter) to set up the required two 6-month rounds of lead and copper tap sampling at the increased number of sample sites (60), taken when the well is in use.

If you have any questions, please feel free to call me at (971) 201-9794.

Sincerely,



Carrie Gentry, PE
Regional Engineer
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cc: Chantal Wikstrom, REHS, OHA/DWS
Cole Grube, PE City of Woodburn
Alex Bargmeyer, PE, Consor Engineers
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