

February 11, 2025

Paul Vettrus
HVOperations
Via email: vinterhus777@gmail.com

**Re: New System and Well (PR#178-2024)
HVOperations (PWS ID#95753)
Site Plan Evaluation**

Dear Paul:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new well for HVOperations. On December 30, 2024, our office received well drilling specifications and a site plan. A plan review fee of \$825 was also received. Site plan clarification was provided on January 20, 2025.

The project includes drilling a well to an approximate depth of 300 feet. The water system owns the entire 100' radius of control, however, the site plan indicates that the well is to be drilled in within the gravel parking lot. DWS' rules require a 100' setback to roadways/parking lots, although a well drilled into a confined aquifer may be allowed within 100'.

Due to the setback issue, the site plan/location cannot be approved at this time.

If the well ends up being drilled into a confined aquifer then under the rule, the well would need to be protected against contamination from surface runoff or hazardous liquids that may spill within that 100' and the well must be protected from unauthorized access. Practically speaking, the way this is generally met is that the area within 100' of the well that is also either gravel or dirt would be paved and sloped such that drainage is away from the well.

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 approximately 80 feet below ground surface (bgs). Deeper water-bearing zones are also likely present at about 200 feet

bgs.

- The estimated depth of the casing seal is expected to be 60 to 140 feet deep depending on the depth to the targeted water-bearing zone.
- The aquifer nature is estimated to be confined.

As noted above, the proposed location is within 100' of a road/parking lot. A waiver for this cannot be approved prior to drilling a well. If the well is properly drilled into a confined aquifer, then OHA/DWS may be able to waive the requirement. If the well is not drilled into a confining aquifer, then OHA/DWS may not be able to approve the well for use by the water system.

If a properly constructed confined aquifer well is drilled, please submit:

1. The well driller's report (well log).
2. A waiver request for the above noted setback issues, as appropriate.
3. Well pumping test information including static water level, pumping rate, drawdown and rate of recover.
4. Pump information.
5. Raw (Untreated) Water Quality Data including coliform bacteria, nitrate and arsenic. These are to be taken from the new well's raw water sample tap at the wellhead.
6. 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 reconnection of the well to the water system. The water system can request an exemption from the requirement to submit engineered plans; this would mean that the water system would be taking responsibility for the design of the system.
7. A copy of the Water Right Permit from WRD, if a water right permit is required. \

The above items should reference Plan Review #178-2024 and can be emailed to me at Carrie.L.Gentry@oha.oregon.gov.

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: Greg DeBlase, REHS, Marion County Health
Chantal Wikstrom, REHS, OHA/DWS
Tommy Laird, Well Construction Program Coordinator, OWRD
Daniel Zastoupil, Mack Drilling Company Inc.