



July 12, 2016

Thomas Ferrell, PE  
Pace Engineers, Inc.  
5000 Meadows Road  
Suite 345  
Lake Oswego, OR 97035-2232

Re: **Pine Crest Development Phase II Water System Improvements (PR#97-2016)**  
**Crystal Springs Water District (PWS ID#00386)**  
**Conditional Approval**

Dear Mr. Ferrell:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the Pine Crest Development Phase II project for Crystal Springs Water District. On June 20, 2016, our office received a set of plans, specifications, land use compatibility statement, geotechnical report and a plan review fee of \$4,125.

The project includes a new pump station and PRV building, a new 80,000 gallon concrete reservoir, distribution piping and associated appurtenances.

The plans are approved with the following conditions:

**Pump Station**

- The pump station must be located above the maximum anticipated 100-year (1 percent) flood level.
- The floor of the pumping station must be sloped to provide adequate drainage.
- All items in contact with potable water must meet NSF Standard 61.

**Reservoir**

- The roof access hatch must have curbing around the opening and a lockable watertight cover that overlaps the curbing.
- Coliform bacteria sample result(s) must be submitted after disinfection of the reservoir is complete.

## **Waterlines**

- A copy of the new easements must be provided to our office. The easements must also be recorded with the county clerk.
- The design must allow for 20 psi to be maintained at all service meters.
- The distance between tracer wire lead access locations for PVC pipe must not be more than 1,000 feet.
- Any sewer and water line crossings must conform to OAR 333-061-0050(9). Parallel separations must also conform to this rule. Note that any zone conflicts represented in Figure 1 in that rule other than zone 1 conflicts must be approved by OHA/DWS.

**Until we receive verification that the conditions have been met and final approval has been issued, the project 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 #97-2016 and can be emailed to me at [Carrie.L.Gentry@state.or.us](mailto:Carrie.L.Gentry@state.or.us) or mailed to:

Attn: Carrie Gentry  
OHA-Oregon Drinking Water Services  
PO Box 14450  
Portland, OR 97293-0450

If you have any questions, please feel free to call me at (971) 673-0191.

Sincerely,



Carrie Gentry, PE  
Regional Engineer  
Drinking Water Services

cc: James Nusrala, PE, OHA/DWS  
Fredrick Schatz, Crystal Springs Water District