



January 31, 2024

James Parmenter, PE  
Senior Project Engineer  
Civil West Engineering Services, LLC  
Via email: [jparmenter@civilwest.net](mailto:jparmenter@civilwest.net)

**Re: Water Storage Tanks and Site Improvements (PR#142-2023)  
Panther Creek Water District (PWS ID#00603)  
Conditional Approval**

Dear James:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the water storage tanks and site improvements project for Panther Creek Water District. On October 18, 2023, our office received plans, specifications, and a plan review fee of \$825. A land use compatibility statement was received on January 7, 2024.

The project includes installation of two 200,000-gallon glass-fused bolted steel tanks, as well as piping and appurtenances to connect the tanks to the existing system.

**The plans are approved with the following conditions:**

- All items in contact with potable water must meet NSF Standard 61 or equivalent.
- Ground-level tanks must be constructed on undisturbed soil, bedrock or other stable foundation material capable of supporting the structure when full. Generally, a geotechnical report is submitted to demonstrate how this standard is met. Demonstration on how this standard is met must be completed prior to construction.
- DWS assumes that these tanks will be used for contact time. No by-pass piping around the tanks may be installed. A contact time estimate must be provided.
- Coliform bacteria sample results must be submitted after disinfection of the reservoir and sampling is complete.

**Until we receive verification that the conditions have been met and final approval has been issued, the facility 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 #142-2023 and can be emailed to me at [Carrie.L.Gentry@oha.oregon.gov](mailto:Carrie.L.Gentry@oha.oregon.gov).

After construction of the tanks is complete, a tracer study must be performed at lowest volume and maximum demand flow rate, from the point of chlorine injection to the outlet, or the first user service line. A plug flow calculation can be made for any contact time provided in the water system's transmission line. A proposal for conducting the tracer study must be submitted to Amy Bleekman (DWS- Springfield) prior to the tracer study. Amy Bleekman can be reached at (541) 751-3154.

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

Sincerely,



Carrie Gentry, PE  
Regional Engineer  
Drinking Water Services

cc: Amy Bleekman, REHS, OHA/DWS  
W. Martin Klinger, DRC, Panther Creek Water District, [tiradwaterserv@cablespeed.com](mailto:tiradwaterserv@cablespeed.com)