



August 4, 2021

John Beagle  
USFS Steamboat Work Center  
2900 NW Stewart Parkway  
Roseburg, OR 97471

Re: **New Storage Tanks (PR# 2021-64)**  
**USFS Steamboat Work Center (PWS #01091)**  
***Conditional Approval***

Dear John Beagle:

Thank you for your submittal of plan review information for the New Storage Tanks for USFS Steamboat Work Center to the Oregon Health Authority's Drinking Water Services (DWS). On April 15, 2021, our office received a site map and construction details. We also received the plan review fee of \$825. At this time DWS grants conditional approval.

The project includes installation of four 10,000 gallon poly storage tanks to replace the burned redwood storage tank.

The plans are approved with the following conditions:

1. Internal ladders of durable material, shall be provided where the only access manhole is located on the roof (OAR 333-061-0050(6)(a)(K)). The ladder does not need to be a permanent installation. A ladder does need to be available to use to access the tanks that can be disinfected before use.
2. A drain shall be provided at the lowest point in the bottom of the storage facility and an overflow of sufficient diameter to handle the maximum flow into the tank shall be provided at or near the top of the sidewall. The outlet ends of the drain and overflow shall be fitted with angle-flap valves or equivalent protection and shall discharge to a watercourse or storm drain capable of accommodating the flow with a vertical separation between the bottom of the pipe and top of the receiving body or structure (OAR 333-061-

0050(6)(a)(M)). The plans do not call out a separate drain at the low points in the storage tanks. Also, the outfall of the drain/overflow was not detailed. Please confirm the drain and overflow are protected.

3. For reservoirs and tanks, disinfection by chlorination shall be accomplished according to AWWA Standard C652 which includes, but is not limited to, the following methods (OAR 333-061-0050(10)(e)):
  - a. Filling the reservoir or tank and maintaining a free chlorine residual of not less than 10 mg/l for the appropriate 6- or 24-hour retention period (OAR 333-061-0050(10)(e)). After the tanks are installed, the system will need to sample for coliform bacteria.
  - b. Filling the reservoir or tank with a 50 mg/l chlorine solution and leaving for six hours; or
  - c. Directly applying by spraying or brushing a 200 mg/l solution to all surfaces of the storage facility in contact with water if the facility were full to the overflow elevation.

The plans did not specify the disinfection method after installation. Also, a clean coliform test needs to be produced prior to final approval.

**Until we receive verification that the project was completed with the conditions listed above met and we have granted Final Approval for the project, the new storage tanks are not approved for use.**

Upon completion of the project, please verify in writing that construction was completed according to the submitted plans and conditions listed above. If substantial changes are made, a set of record (as built) drawings must be submitted. Documentation demonstrating how the above conditions were met should reference Plan Review #2021-64 and can be e-mailed to me at [rebecca.a.templin@dhsoha.state.or.us](mailto:rebecca.a.templin@dhsoha.state.or.us) or mailed to:

Attn: Rebecca Templin  
OHA-Oregon Drinking Water Services  
444 A Street  
Springfield, OR 97477

If you have any questions or would like this in an alternate format, please feel free to call me at (541) 650-4868.

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August 4, 2021

Sincerely,



Rebecca Templin, P.E.  
Regional Engineer  
Drinking Water Services

ec: Julie Wray, DWS Portland  
Eric Molten, EIT and Matt Wadlington, P.E., Civil West Engineering  
Services, Inc.  
Jonathan Woody, Optimum Environmental Corp.  
Angie Scott and Shawn Priddle, Douglas County Environmental Health