



PUBLIC HEALTH DIVISION
Center for Health Protection, Drinking Water Services

Tina Kotek, Governor

Oregon
Health
Authority

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July 12th, 2024

Mandi Hall
Clarks Branch Water Association
P.O. Box 2233
Myrtle Creek, OR 00548

**Re: Storage (PR#81-2024)
Clarks Branch Water Association (PWS ID#00548)
Conditional Approval**

Dear Mandi Hall:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new storage for Clarks Branch Water Association. On June 11th, 2024, DWS received engineered design and a plan review fee of \$825.

The project includes the design and construction of a new 150,000-gallon steel water storage tank at the subject public water system. The proposed scope replaces existing finished water storage at the water treatment plant property site. The project site is located on what appears to be the south side of the distribution system. Clarks Branch Water Association is located south of the unincorporated community of Round Prairie, Oregon.

The project shall adhere to all applicable DWS Oregon Administrative Rules (OAR). The submitted plan review material has been reviewed and the following items were noted as specific conditions of final approval:

General-

- Per OAR 333-061-0050(1)(e), Only materials designed for potable water service and meeting NSF Standard 61: Drinking Water System Components - Health Effects or equivalent shall be used in those elements of the water system which are in contact with potable water. Provide installed product information demonstrating

newly installed system components meet this requirement.

Facilities for disinfection and disinfectant residual maintenance-

- Per OAR 333-061-0050(5), any modification to the existing disinfection system (temporary or permanent) and associated disinfection contact chambers shall meet the applicable portions of subsection (a) through (l) of this rule. The water system will need to perform a new tracer study to demonstrate required CT can be met during peak hourly flow and minimum storage volume in the contact chambers.

Finished water storage-

- Per OAR 333-061-0050(6), the new temporary and permanent finished water storage shall meet the applicable portions of this section. If the as-built conditions of the new storage tanks vary from the submitted design, the project shall provide as-built drawing demonstrating as-built conditions meet the applicable State construction standards. The temporary storage to be used while the larger permanent storage is be constructed will need to be designed by a licensed professional. The current storage planned to be removed is used for required disinfection contact time. A design by a licensed professional along with an interim disinfection tracer study will be required for the temporary storage tank to ensure required CT is met at all times. The temporary storage design should be submitted prior to taking any existing storage out of active service. If the new 150,000-gallon steel water storage will be used for disinfection contact time, the 150,000-gallon clearwell will also need to have a new tracer study performed on it.
- Per OAR 333-061-0050(6)(M), 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. Please ensure the drain and overflow meet these construction standard requirements. For efficiency, consideration may be to combining the plumbing for both drain and overflow into one discharge line directly to the existing holding pond. Verify the existing holding pond can absorb the full drained volume of the new storage tank if need.

Distribution systems-

- Per OAR 333-061-0050(8), all new and modified portions of the water distribution system, temporary or permanent, shall meet the applicable portions of this rule.

Disinfection of facilities-

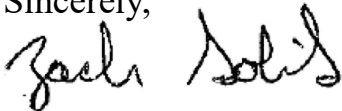
- Per OAR 333-061-0050(9), Following construction or installation of new facilities and repairs to existing facilities, those portions of the facilities which will be in

contact with water delivered to users must be cleaned and flushed with potable water and disinfected according to AWWA Standards C651 through C654 before they are placed into service.

Until we receive verification that the conditions have been met and final approval has been issued, the new temporary and permanent new storage is not approved for use. For waterline portions of the project, note that engineers must inspect/be prepared to sign off before burying lines. 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 #81-2024 and can be emailed to me at zachariah.cunningham-golik@oha.oregon.gov.

If you have any questions, please feel free to call me at 541-231-9077.

Sincerely,



Zach Golik, PE
Regional Engineer
Drinking Water Services

CC: Julie Wray, DWS Portland