

March 19, 2025

Adam Denlinger
Seal Rock Water District
1037 NW Grebe Street
Seal Rock, OR 97376

Re: Beaver Creek Water Treatment Plant (PR #48-2019)
Seal Rock Water District – PWS ID# 00789
Final Approval

Dear Adam Denlinger:

On March 15, 2023, our office received confirmation that the above project was completed according to the plans submitted and conditions set forth in the June 27, 2019, conditional approval letter.

A tracer study on the clearwell of the Beaver Creek Water Treatment Plant was required in the conditional approval letter. On August 9, 2022, a disinfection contact time tracer study was conducted with the assistance of a team of Jacobs engineers. The tracer study methodology and results are approved.

Tracer Study Parameters and Results:

- Demand flow (study period average): 706 gpm
- Clearwell volume during study: 232,277 gallons
- Contact time achieved: 51 minutes
- Clearwell hydraulic efficiency (Baffling factor): 0.16

Chlorine contact time is required to achieve 0.5-log inactivation of Giardia. To determine actual contact time on a daily basis, multiply the baffling factor by the minimum clearwell volume for the day and then divide by the peak hourly demand flow for the day. Alternatively, the worst-case contact time of 51 minutes can be reported every day.

The results of the tracer study are valid within 110 percent of the flow at which the study was conducted. If/when peak hourly flow demand exceeds 777 gpm, a new tracer study should be conducted. Likewise, the results of this study are only valid to 10 percent below

the average clearwell volume during the study 209,049 gallons, or 13.7 feet of clearwell height.

This verification completes the plan review requirements. Final approval is issued at this time, and the facility is approved for use. If you have any questions, please feel free to call me at 541-393-4374.

Sincerely,



Baxter Call, P.E.
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OHA-Drinking Water Services
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CC:

File, OHA/DWS Portland
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