PUBLIC HEALTH DIVISION
Center for Health Protection, Drinking Water Services
Tina Kotek, Governor

Oregon Health Authority

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November 2, 2023

Caleb Bauermiester
Jackson Creek Water Association
715 NW Hames Place
Corvallis, OR 97330

Re: Corrosion Control (PR#131-2023)
Jackson Creek Water Association (PWS ID#00977)
Conditional Approval

Dear Caleb Bauermiester:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the corrosion control system for Jackson Creek Water Association. On October 20th, 2023, DWS received raw water parameters, the corrosion control, and a plan review fee of $248.

The project has installed a corrosion control system utilizing orthophosphate as the corrosion control chemical. The project has also installed a media filter to remove naturally occurring iron and manganese from the groundwater source to improve the effectiveness of the added corrosion control chemical. The corrosion control project is located at the Jackson Creek Water Association which is north of Corvallis, 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:

Water treatment facilities (other than disinfection)-

- The installed corrosion control system appears to have been installed per OAR 333-061-0050(4) as well as the EPA's Optimal Corrosion Control Treatment manual. With corrosion control treatment installed and operational, the Jackson Creek Water Association shall perform two 6-month rounds lead and copper water quality sampling demonstration rounds at the standard sample set number (5

samples). The water system will need to collect two sets of all Water Quality Parameters (WQP) both at the Entry Point (EP) and in the distribution system. Alkalinity is only needed if the treatment involves adjusting alkalinity (i.e., soda ash). Compare pH and alkalinity (in applicable) to applicable tap sample results. Tabulate WQP data in a table akin to the following:

Parameter		
Date range	(Round 1 date range)	(Round 2 data range)
Entry point pH range		
Distribution pH range		
EP Alkalinity		
Distribution Alkalinity		
Lead 90th %ile		
Max lead value		
Copper 90th %ile		
Max copper value		

Note what pH and alkalinity (if applicable) are in the distribution and entry point when the lead and copper concentration tap sample results are at their lowest. If the lead and copper values are quite low, it's ok to give a bit of a buffer (0.1 pH units, 1 mg/L alkalinity). If the lead and copper concentration tap sample results are not very low, the water system may need to adjust the pH and alkalinity (if applicable). Minimums can be set using the existing data and re-evaluated during future rounds. The water system may utilize the DWS Circuit Rider Program for up to ten hours of cost-free assistance with determining these WQP parameters.

Until we receive verification that the conditions have been met and final approval has been issued, the corrosion control is not approved for use. Documentation demonstrating how the above conditions were met should reference Plan Review #131-2023 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
Scott Kruger, Benton County Health Department