



PUBLIC HEALTH DIVISION
Center for Health Protection, Drinking Water Services

Tina Kotek, Governor

Oregon
Health
Authority

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March 7, 2024

Michael Daversa
Dixie Elementary SD 509J
1555 SE 35th
Corvallis, OR 97333

**Re: Corrosion control treatment (PR#26-2024)
Dixie Elementary SD 509J (PWS ID#91671)
Conditional Approval**

Dear Michael Daversa:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the corrosion control treatment for Dixie Elementary SD 509J. On February 14th, 2024, DWS received drawings, testing and a plan review fee of \$248.

The project includes the addition of a soda ash mixture in conjunction with the pre-existing phosphate for corrosion control of the water system's plumbing. The corrosion control chemical modification will be installed at the Dixie Elementary School located near 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:

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.

Treatment Requirements and Performance Standards for Corrosion Control-

- Modifications to the existing corrosion control system shall be installed and monitored per OAR 333-061-0050(4) and OAR 333-061-0034 as well as the EPA’s Optimal Corrosion Control Treatment manual. With corrosion control treatment installed and operational, the Dixie Elementary School District shall perform two 6-month rounds lead and copper water quality sampling demonstration rounds at the standard sample set number (10 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 (if 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 90 th percentile		
Max lead value		
Copper 90 th percentile		
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.

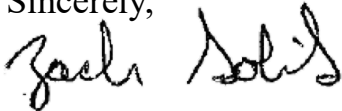
Disinfection of facilities-

- Per OAR 333-061-0050(10), 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 corrosion control modifications is not approved for use. 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 #26-2024 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
Amy Bleekman, DWS Springfield
Stephen Kirkley, Linn County Health Department