

May 23, 2025

James Robinson
Manzanita Hills Subdivision
P.O. Box 157
Shady Cove, OR 97539

**Re: New WTP for Arsenic Treatment (PR#2025-67)
Manzanita Hills Subdivision (PWS ID#06155)
Conditional Approval**

Dear James Robinson:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new water treatment for arsenic for Manzanita Hills Subdivision. On May 20, 2025, our office received plans and specifications and a plan review fee of \$248.

Manzanita Hills Subdivision is replacing the existing arsenic treatment equipment with a new installation. The project includes the installation of the KineticoPRO CP213s OD (backwash filter), Kinetico CRS 1100 with Metsorb media (adsorbent filter), carbon dioxide and chlorine feed systems, and incidental components. Since the system has a mixture of Arsenic 3 and Arsenic 5 in their well water, the system is oxidizing the water prior to filtration. The chlorinated water will be co-ag injected with ferric chloride prior to flowing through the backwash and adsorbent filters.

The plans are approved subject to the following conditions:

1. Sample taps before and after treatment. OAR 333-061-0050(4)(a)(E) requires sampling taps be provided before and following treatment process and prior to first user. No sample taps were noted in the plans.
2. After installation is complete, an arsenic sample shall be taken to confirm new arsenic equipment is removing arsenic from the water.

Until we receive verification that the conditions have been met and final approval has been issued, the new arsenic treatment equipment is not approved for use. 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 #2025-67 and can be emailed to me at rebecca.a.templin@oha.oregon.gov.

In addition to the above conditions, I have the following comments/recommendations:

3. DWS recommends adding information to the O&M manual about maintenance for the new absorbent filter, backwash filter, and the carbon dioxide and chlorination equipment (e.g., the cartridge filters are changed per manufacturer's recommendation, ordering replacements, monitoring pressures and flow, etc.).
4. Disposal of any waste products needs be acceptable to Department of Environmental Quality (Oregon DEQ). This should also be included in the O&M manual.
5. Arsenic sampling will remain quarterly for the first year. If sample results come back consistently below the MCL, then monitoring may be reduced to yearly (OAR 333-061-0036(2)(a)(A)(v)(I)).

If you have any questions, please feel free to email me at rebecca.a.templin@oha.oregon.gov or call me at 541-650-4868.

Sincerely,



Rebecca Templin, PE
Regional Engineer
Drinking Water Services

cc: Brad Daniels, DWS, Bradley.K.DANIELS@oha.oregon.gov
Tony George, Jackson County Public Health, georgejg@jacksoncountyor.gov
David Funderburk, 541 Water, david@541water.com
Rob Henry, PE, HBH Consulting Engineers, rhenry@hbh-consulting.com
Tawni Bean, Business Oregon, Tawni.BEAN@biz.oregon.gov
Luke Scott, Luke Scott Real Estate, LukeScott@johnlscott.com