



PUBLIC HEALTH DIVISION
Drinking Water Services

Tina Kotek, Governor

Oregon
Health
Authority

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June 28, 2023

Carrie Niskanen
Tasting Room Manager
Artist Block Wine
Via email: carrie@artistblockwine.com

**Re: New system and well (PR#55-2023)
Artist Block Wine (PWS ID#95708)
Conditional Approval**

Dear Carrie:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the project name for water system. On April 17, 2023, our office received a plan review fee of \$825. Additional details were provided on May 5, 2023 and sampling results were submitted on May 17, 2023.

The project includes a well (well ID YAMH 1774), drilled in 1992. There are also the following pieces of infrastructure: a 500-gallon Green water tank, an 82-gallon pressure tank and Pentek sediment filters. There is a well of unknown construction within 100' of the well for which no well log is available. The vineyard is within 100' of the well.

Under OAR 333-061-0060(1)(b), submittals must be prepared by a Professional Engineer registered in Oregon, unless exempted by DWS. An exemption was approved for this submittal. Note that by utilizing this exemption, the water system takes full responsibility for the design of the project.

A regional geologist in our program reviewed the well log construction details. He noted the following:

- The construction of the well meets current standards. The well was drilled to a depth of 202 feet. The casing and casing seal extend to a depth of 38 feet which is 7 feet into low permeability basalts that overlie the aquifer. A perforated liner was placed in the well to

help keep the borehole open below the casing. Water enters the well through the uncased portion of the well between 38 feet and 202 feet below ground.

- The well draws water from a deep confined layered basalt aquifer. The water-bearing zone within the basalt occurs at a depth of 171 feet and is overlain by 140 feet of low permeability basalt that acts as a confining layer. Water within the aquifer is under pressure, rising 123 feet above the identified water-bearing zone to a final static water-level depth of 48 feet below ground.
- Results from a sensitivity analysis indicate that the well construction does not contribute to the overall sensitivity of this water source to local land use practices and the aquifer characteristics are not highly sensitive to local land use practices. Should future chemical and/or bacteriological monitoring results suggest that there is a pathway for contaminants originating at the surface to enter the aquifer system, the aquifer sensitivity characteristics will be re-evaluated.

The plans are approved with the following conditions:

- Since there is a vineyard within 100' of the well, which can be a setback issue. Since the well is properly drilled into a confined aquifer and has low sensitivity, a waiver from construction standards is available for that setback. If the vineyard does not use any chemicals on it, a waiver may not be necessary. The waiver form can be found [here](#).
- The well of unknown construction represents a sanitary hazard and must either be properly abandoned or a well log provided for evaluation.
- A raw water sample tap is required close to the well head, prior to any storage or treatment.
- Piping arrangements must include provisions for pumping the total flow from the well to waste. It may be possible to pump-to-waste through the sample tap.
- The green tank needs a screen on the overflow. My understanding of this tank is that it will overflow out of the top of the tank, and if that is the case, there should be screening where it overflows.
- I could not tell from the photos provided whether there is by-pass piping for the pressure tank. By-pass piping must be provided.

Until we receive verification that the conditions have been met and final approval has been issued, the facility 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 #55-2022 and can be emailed to me at Carrie.L.Gentry@oha.oregon.gov.

In addition to the above conditions, I have the following comment:

- Water rights may be required for your water system, depending on how much water is utilized out of each well per day. Oregon's Water Resources Department regulates water rights and can be contacted at (503) 986-0900. Copies of water right permits or exemptions should be provided to DWS.

If you have any questions, please feel free to call me at (971) 201-9794.

Sincerely,

A handwritten signature in black ink, appearing to read 'C. Gentry', written in a cursive style.

Carrie Gentry, PE
Regional Engineer
Drinking Water Services

cc: Sarah Schwab, REHS, Oregon Department of Agriculture