



March 26, 2024

Abby West
Bellyful Catering Co.
Via email: abbywest@comcast.net

**Re: New System and Well (PR#35-2024)
Bellyful Catering (PWS ID#95734)
Conditional Approval**

Dear Abby:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new system and existing well for Bellyful Catering. On March 5, 2024, our office received a site plan and well log. A plan review fee of \$825 was received on March 19, 2024.

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.

The project includes an existing well, drilled to a depth of 200 feet in 1978. A geologist with our program reviewed the well log construction details and noted the following:

- The well was cased and sealed to a depth of 21 feet. The casing and casing seal were completed 6 feet into a competent basalt of low permeability. A narrow diameter perforated liner extends to the bottom of the hole and helps keep the borehole open below the casing. Water can enter through the uncased portion of the borehole below to a depth of 21 feet.
- This well draws water from a deep confined layered basalt aquifer. The water-bearing zone is reported to occur at 176 feet below ground surface and is directly overlain by 161 feet of basalt of low permeability which acts as a confining layer. Water in the

aquifer is under pressure, rising 71 feet above the reported water-bearing zone to a depth of 105 feet below ground level.

- Results from a sensitivity analysis indicate that the well construction has a low sensitivity to local land use practices and the aquifer is not highly sensitive to nearby land use practices.

The plans are approved with the following conditions:

- Above ground well head details must be provided (pictures may be the best way of showing these items), specifically:
 - Unless a pitless adapter was installed, a concrete slab must be provided around the well.
 - The casing height must be 12” above the slab (or 12” above grade, if a pitless adapter was installed.)
 - A watertight sanitary seal must be provided.
 - A sample tap at the well head must be provided.
 - Piping arrangements must include provisions for pumping the total flow of the well to waste. Pump-to-waste piping is typically installed for this, however, some systems plan to pump the flow to waste through the sample tap.
 - A method of determining the total output of the well must be provided (typically a flowmeter is installed for this purpose), although a bucket and stop watch would be an acceptable method.
 - Unless a pitless adapter is installed, a well house must be provided. If the well house is not a small dog-house style, then it must be provided with light and heat. In all cases it must be lockable.
 - A casing vent with a screened return bend must be provided. If a pitless adapter was installed, the caps are typically vented.
- Coliform bacteria, nitrate and arsenic sample results must be submitted. These samples must be obtained from the well head raw water sample tap and processed at an approved lab.

Until we receive verification that the conditions have been met and final approval has been issued, the facility is not approved for use. Documentation demonstrating how the above conditions were met should reference Plan Review #35-2024 and can be emailed to me at Carrie.L.Gentry@oha.oregon.gov.

Note that 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: Nicole Alfafara, REHS, OHA/DWS
Ashley Davis, REHS, Washington County Health Department
Tommy Laird, Well Construction Program Coordinator, OWRD