

October 23, 2024

Jim Newton, PE, RG, CWRE  
Principal – Engineer-Geologist  
Cascade Geoengineering, LLC  
Via email: newtonjim@hotmail.com

**Re: New Replacement Well for Well #1 (PR#103-2024)  
La Casa Mia (PWS ID#00696)  
Site Plan Evaluation**

Dear Jim:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the new replacement well for Well #1 for La Casa Mia. On August 12, 2024, our office received a site plan, well drilling specifications, land use compatibility statement and water right information. A plan review fee of \$825 was also received.

The project includes drilling a well to a depth of approximately 350 feet below ground surface (bgs). The site plan that was submitted indicates that the water system does not own the entire 100' radius of control.

A regional geologist in our program reviewed the proposed well construction. He noted the following, which should be shared with the well driller:

- The estimated depth to a water-bearing zone is approximately 121 feet below ground surface.
- The area around the proposed well location is surficially mapped as Quaternary alluvial deposits and the aquifer supplying the well will most likely consist of layered volcanic rocks of the Deschutes Formation. Based on well logs DESC 2620 and DESC 61549/L133384, the aquifer appears to be confined. The proposed well construction plans indicate the well will be sealed 85 feet into consolidated rock. The proposed below-ground construction appears to meet OWRD Well Construction Standards.
- Drinking Water Services recommends that the driller consult with Oregon Water Resources Department (OWRD) during the drilling process and prior to placement of the final seal.

As noted above, the water system does not have 100' radius of control around the proposed well. A waiver for the radius of control issue cannot be approved prior to drilling a well. If the well is properly drilled into a confined aquifer, then OHA/DWS may be able to waive the requirement. If the well is not drilled into a confining aquifer, then OHA/DWS may not be able to approve the well for use by the water system.

**Due to the radius of control issue, the site plan/location cannot be approved at this time.** If a properly constructed confined aquifer well is drilled, please submit:

1. The well driller's report (well log).
2. A waiver request for the above noted radius of control issue.
3. Well pumping test information including static water level, pumping rate, drawdown and rate of recover.
4. Pump information (manufacturer and model details).
5. Raw (Untreated) Water Quality Data including coliform bacteria, IOCs (including nitrate, nitrite and arsenic), SOCs, VOCs and radionuclides. These are to be taken from the new well's raw water sample tap at the wellhead.
6. A Land Use Compatibility Statement signed by Deschutes County must be submitted prior to DWS issuing a conditional approval letter.

The above items should reference Plan Review #103-2024 and can be emailed to me at [Carrie.L.Gentry@oha.oregon.gov](mailto:Carrie.L.Gentry@oha.oregon.gov).

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

Sincerely,



Carrie Gentry, PE  
Regional Engineer  
OHA-Drinking Water Services  
[Carrie.L.Gentry@oha.oregon.gov](mailto:Carrie.L.Gentry@oha.oregon.gov)

cc: Steve Prazak, La Casa Mia, [svprz@bendbroadband.com](mailto:svprz@bendbroadband.com)  
Jeff Freund, REHS, Deschutes County Environmental Health  
Tommy Laird, Well Construction Program Coordinator, OWRD