



PUBLIC HEALTH DIVISION
Drinking Water Services

Tina Kotek, Governor

Oregon
Health
Authority

800 NE Oregon Street, #640
Portland, OR 97232-2162
Phone: 971-201-9794
Fax: 971-673-0694
www.healthoregon.org/dwp

August 31, 2023

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

**Re: New Well #2 (PR#110-2023)
La Casa Mia (PWS ID#00696)
Site Plan Approval**

Dear Jim:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the replacement well #2 for La Casa Mia water system. On August 17, 2023, our office received a submittal that included a narrative of the project, site plan, proposed well construction, well logs for the existing wells, water rights information and a plan review fee of \$3,300. A fee of \$825 for this project was paid by La Casa Mia on May 4, 2023. The refund of the \$3,300 has been initiated. A land use compatibility statement with section B was also submitted.

The project includes drilling a well to a proposed depth of 350 feet. The site plan submitted showed that the water system has a 100' radius of control and that there are no hazards within the sanitary setback. Note that the proposed well location is in the path of an intermittent stream per the National Hydrography Data set layer, which will mean that DWS will conduct a GWUDI review after the well is completed.

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 based on well log DESC 61549.
- Based on well log DESC 2616 and DESC 61549, the estimated nature of the aquifer is confined.
- The area around the proposed well location is sufficiently mapped as Quaternary alluvial

deposits and the aquifer supplying the well will most likely consist of layered volcanic rocks of the Deschutes Formation. The proposed well construction plans indicate that the well will be sealed 155 feet into consolidated rock. The proposed construction appears to meet OWRD Well Construction Standards. Although the proposed construction is approved, DWS recommends that the well driller consult with OWRD during the drilling process and prior to placement of the final seal.

The project is granted site plan approval. Note that a land use compatibility statement with part A signed by the local land use authority must be submitted prior to construction. Once construction of the well is complete, please submit:

1. The well driller's report (well log).
2. Well pumping test information including static water level, pumping rate, drawdown and rate of recovery.
3. Pump information.
4. Raw (Untreated) Water Quality Data including coliform bacteria, IOC, SOC, VOC and radionuclides. These are to be taken from the new well's raw water sample tap at the wellhead.
5. A drawing was submitted that showed some of the features needed for the next phase of the review after the well is drilled, however, I still need details on pump-to-waste piping, method for determining water level, sample tap and flow meter locations, and whether the pitless cap will be vented.

The above items should reference Plan Review #110-2023 and can be emailed to me at 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
Drinking Water Services

cc: Michelle Byrd, REHS, OHA/DWS
Jeff Freund, REHS, Deschutes County Health Department
Nancy Kowalski, Treasurer, La Casa Mia, lacasamiahoa@gmail.com
Logan & Katie Bell, La Casa Mia, Logan.Bell87@gmail.com

