

September 24, 2025

Jim Newton, PE, RG, CWRE
Cascade Geoengineering, LLC
21145 Scottsdale Drive
Bend, Oregon 97701

**Re: New Well NW-1, Plan Review #109-2025, City of Fossil, PWS ID# 4100307
Site Plan Approval**

Dear Jim:

Thank you for your submittal of plan review information for the proposed new well NW-1 at City of Fossil to the Oregon Health Authority's Drinking Water Services (DWS). The review fee of \$825 for the proposed well was received on August 18, 2025. On August 25, 2025, our office received a site plan, specifications, a Land Use Compatibility Statement, other related documents. The project consists of drilling a new well that will replace the existing well WHEE 86. **The site plan has been reviewed and is approved.**

A DWS hydrogeologist has reviewed the proposed well construction and provided the following comments:

The area around the proposed well is surficially mapped as volcanic rocks of the Clarno Formation. The proposed well should be sealed into the consolidated layer directly above the water bearing zone. Based on limited information provided on the well being replaced (WHEE 86), the water bearing zone was interpreted as being encountered at a depth of 195 feet below ground surface (bgs). If the interpretation is correct, the new well seal should extend into the solid, unfractured consolidated layer directly overlying the water bearing zone, which extends from 89 to 195 feet bgs. It is recommended that the well driller consult and receive approval from Oregon Water Resources Department on the casing and seal depth prior to final placement.

I also have the following comments:

- I note that the existing well WHEE 86 will be abandoned.
- I note that the water right Certificate 55362 will be associated with the proposed well.

- The well casing must extend at least 12 inches above grade.
- Due to the intermittent stream, Cottonwood Creek, located within 500 feet of the well, monthly coliform source samples will be required for a year to help determine if the well is under the influence of surface water.

After the proposed well is drilled, please submit the following:

1. The well driller's report (well log).
2. Pump test information including static water level, pumping rate, and drawdown/rate of recovery information.
3. The make/model of the well pump and the depth the pump bowls are set.
4. Reports from an Oregon certified lab of raw (untreated) water quality, including coliform bacteria, sets of Inorganic Chemicals (IOCs), Volatile Organic Chemicals (VOCs), Synthetic Organic Chemicals (SOCs), and Radionuclides including Gross Alpha, Combined Radium 226/228, and Uranium. These samples are to be collected from the well's raw water sample tap at the well head.

Until verification is received that the project was completed according to the plans and Final Approval is granted for the project, the new well is not approved for use. If you have any questions or would like this in an alternate format, please feel free to call me at (541) 966-0900 or email at william.h.goss@oha.oregon.gov.

Sincerely,



William Goss, PE
Regional Engineer

c: Julie Wray, OHA – Drinking Water Services

William Potter, City of Fossil

Tommy Laird, Water Resources Department (pdf copy only)

Travis Kelly, Water Resources Department (pdf copy only)

Ken Thiemann, Water Resources Department (pdf copy only)