

25 February 2016

COPY

Danny Gilliland
LDS Church
PO Box 5967
Bend, Oregon 97708

**RE: New Well (PR #2015-184)
Camp Esther Applegate LDS (PWS OR4105174)
Well in Use without Final Approval**

Dear Mr. Gilliland:

Thank you for submitting plans for *plan review* on the well at Camp Esther Applegate LDS located on the southwest shore of Lake of the Woods near Klamath Falls, Oregon. Oregon Health Authority Drinking Water Services (DWS) received a Land Use Compatibility Statement; fee of \$150; a hand drawn map of the property; an email with a latitude/longitude of the well location; and the following which are not plan review requirements: operation and maintenance plan, emergency response plan, coliform sampling plan, and example boil water notice. It is DWS' understanding that plans were submitted because LDS believes plan review has not occurred for this public water supply. Due to a lack of well log and thus assumed inadequate construction of the well, DWS views the water supply as *in use without final approval*.

A DWS geologist wrote "*consider reconstruction if nitrate is greater than 5 mg/L or confirmed E. coli [is detected] at the source. Well logs for other wells located within the same Township (37S), Range (5E), and Section (15) indicate that the aquifer is under pressure. The type of aquifer (confined vs unconfined) is unknown since the wells are most likely located in an area of discharge (i.e. topographically controlled).*"

Typically, if a well does not meet construction standards, annual assessment monitoring is required. However, coliform monitoring over the last 8 years has sampled each month from May through November, and there is no treatment of the

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water allowing distribution samples to be representative of source results. All results are absent of total coliform. Thus, assessment monitoring is not required in this case.

All modifications to a water system are required to have final approval and meet all construction standards prior to being used to serve water to the public. If you have any questions, you are welcome to contact me at (541) 726-2587 extension 57 or via email at james.r.macpherson@state.or.us.

Sincerely,



James "Jay" MacPherson, Ph.D., P.E.
Region 2 Plan Review Coordinator
OHA Drinking Water Services

cc: Plan Review, DWS Portland
Ramona Quinn, Klamath County