



June 26, 2024

Thomas Moloney
Hood River Forestry Dept.
918 18th St
Hood River, OR 97031
Thomas.moloney@hoodrivercounty.gov

Letter sent by email only.

Re: **2 New Hand Pump Wells (PR#74-2024)**
Kingsley Reservoir Campground (PWS ID#95501)
Site Plan Approval

Dear Mr. Moloney

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for two new wells equipped with hand pumps to serve the *Kingsley Reservoir Campground*, owned and operated by Hood River County. The campground, open May 1st – October 25th (weather permitting) is located on the Hood River County Tree Farm and includes 36 camp sites (suitable for both tents and RV's), 4 vault toilets, 3 ADA sites, and a boat ramp for non-motorized boating in the Green Point/Kingsley Reservoir.

On May 22, 2024, our office received a "Well Permit Application" showing the location of an existing well #1 ([L34427](#)) and the location of two new wells proposed to be constructed to serve the campground. No treatment is planned for the wells. A Land Use Compatibility Statement (LUCS) and a plan review fee payment in the amount of \$825 were also received on May 22, 2024 at which time the project was assigned plan review # 74-2024, trackable online at: <https://yourwater.oregon.gov/planreview.php?pwsno=95501>.

The new wells are anticipated to be designated as follows:

- SRC-BA Well #2 on its own entry point (EP-B)
- SRC-CA Well #3 on its own entry point (EP-C)

This designation is consistent with the existing Well #1 (SRC-AA) on EP-A as shown online at: <https://yourwater.oregon.gov/inventory.php?pwsno=95501>



A regional geologist in our program, Russ Kazmierczak, reviewed the proposed well site locations on 6/26/24 and noted **the following, which should be shared with the well driller:**

- **Well Site #1 (Well #2 – SRC-BA):**

Evaluation Results From Regional Hydrogeologist:

Proposed Well Construction Recommendations:

Estimated depth to water-bearing zone: 56 feet below ground surface (ft bgs) based on well log HOOD 50350/L34427

Estimated aquifer nature: Confined Unconfined

Estimated depth of casing seal: 20 ft bgs based on information provided on page 1 of this form.

Comments: Proposed construction for Handpump Well #2/SRC-BA appears to meet OWRDs minimum construction standards for a well constructed into a unconsolidated formation with or without significant clay beds (see OAR-210-0130 and -0140).

If multiple water bearing zones are encountered during the drilling process, the static water level (SWL) for each water bearing zone will need to be measured to determine if separate aquifers are present. If the SWL changes between water bearing zones, the well constructor must seal off separate aquifers in order to prevent the commingling of aquifers or loss of artesian pressure.

Recommend that the driller consult with OWRD prior to seal placement.

- **Well Site #2 (Well #3 – SRC-CA):**

Evaluation Results From Regional Hydrogeologist:

Proposed Well Construction Recommendations:

Estimated depth to water-bearing zone: 56 feet below ground surface (ft bgs) based on well log HOOD 50350/L34427

Estimated aquifer nature: Confined Unconfined

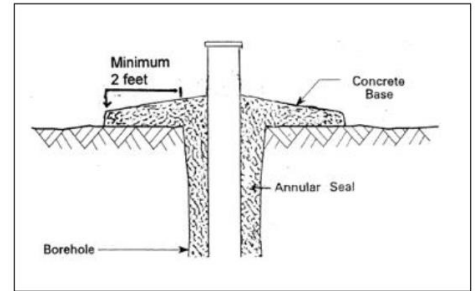
Estimated depth of casing seal: 20 ft bgs based on information provided on page 1 of this form.

Comments: Proposed construction for Handpump Well #3/SRC-CA appears to meet OWRDs minimum construction standards for a well constructed into a unconsolidated formation with or without significant clay beds (see OAR-210-0130 and -0140).

If multiple water bearing zones are encountered during the drilling process, the static water level (SWL) for each water bearing zone will need to be measured to determine if separate aquifers are present. If the SWL changes between water bearing zones, the well constructor must seal off separate aquifers in order to prevent the commingling of aquifers or loss of artesian pressure.

Recommend that the driller consult with OWRD prior to seal placement.

The project is granted site plan approval, which means the wells can be drilled. Once the wells have been drilled, a 4-ft x 4-ft reinforced (rebar) concrete base poured around the casing and sloped to promote drainage (the top of the casing needs to extend at least 12” above the top of the slab), fitted with hand pumps, and the well flushed/disinfected, please submit the following for both wells:



1. The well driller’s report (well log) for each well.
2. Hand pump information (e.g., type of pump, make/model, photograph showing installation, and NSF-61 certification (or stainless steel) for wetted parts).
3. Raw (Untreated) water quality test data for each well including:
 - Coliform bacteria
 - Nitrate
 - Arsenic

These samples are to be taken from each of the new well and analyzed by a lab certified in Oregon for drinking water analysis ([ORELAP certified lab](#)).

4. A copy of the Water Right Permit for each well from WRD, if a Water Right Permit is required or, if not required, correspondence from Oregon Water Resources Department that demonstrates a water right is not required for either well. Contact Robert Wood if you have questions regarding water rights:

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|---------------------------------------------------------------|---------------------------------------------------------------------------|--------------|
| Robert Wood Robert.L.Wood@water.oregon.gov | Oregon Water Resources Dept. 2705 E 2nd Street The Dalles, OR 97058 | 541-506-2651 |
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The above items should reference Plan Review #74-2024 & PWS ID #95501 and can be emailed to me at evan.e.hofeld@oha.oregon.gov. If you have any questions, please feel free to call me at 971-200-0288.

Sincerely,

Evan Hofeld, Regional Engineer - OHA-Drinking Water Services
evan.e.hofeld@oha.oregon.gov

cc:

- Ian Stromquist, Hood River County Environmental Health Response Coordinator – ian.stromquist@hoodrivercounty.gov
- Tommy Laird, Well Const. Prog. Coord., OWRD - Tommy.K.LAIRD@water.oregon.gov
- Robert Wood, Water Master, OWRD - Robert.L.Wood@water.oregon.gov