Groundwater Transfer Review Summary Form

Transfer/PA # T- _14156_

GW Reviewer _Joe Kemper_ Date Review Completed: _12/21/2023_

Summary of Same Source Review:

☐ The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).

Summary of Injury Review:

☐ The proposed transfer will result in another, existing water right not receiving previously available water to which it is legally entitled or result in significant interference with a surface water source as per 690-380-0100(3).

Summary of GW-SW Transfer Similarity Review:

☐ The proposed SW-GW transfer doesn't meet the definition of "similarly" as per OAR 690-380-2130.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations.

Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1271
(503) 986-0900
www.wrd.state.or.us

Ground Water Review Form:

☒ **Water Right Transfer**
☐ **Permit Amendment**
☐ **GR Modification**
☐ **Other**

Application: T-14156 Applicant Name: City of Prineville

Proposed Changes: ☐ POA ☒ APOA ☐ SW→GW ☐ RA
☐ USE ☐ POU ☐ OTHER

Reviewer(s): Joe Kemper Date of Review: 12/21/2023

Date Reviewed by GW Mgr. and Returned to WRSD: _____

The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

☐ The water well reports provided with the application do not correspond to the water rights affected by the transfer.

☐ The application does not include water well reports or a description of the well construction details sufficient to establish the ground water body developed or proposed to be developed.

☐ Other _____

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1. Basic description of the changes proposed in this transfer: The originating certificate 94816 authorizes 1.35 cfs of municipal use from two wells (CROO 2083 aka Stearns Well 2 & CROO 3132 aka Barney Well). This transfer proposes to add an unconstructed APOA (Stearns Well 3) to this water right. Well specific details are included in the table below.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: The valid POAs access the aquifer hosted within a 10-30-foot-thick package of Pleistocene-aged, coarse-grained alluvium that was deposited by a paleo channel before being buried beneath ~200 feet of fine-grained lacustrine sediment that was likely deposited after basalt flows from Newberry Caldera temporarily dammed the Crooked River. The transfer application proposes construction for Stearns Well 3 to be cased and sealed to 225 feet with an open interval from 225 to 250 feet, which should ensure that the APOA accesses the same source aquifer as the current POAs.

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
   ☐ Yes ☒ No _____

   b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): _____

4. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another ground water right**?

   ☒ Yes ☐ No Comments: CROO 58 and CROO 59 (~2300 feet east) are the closest groundwater users in the target aquifer. Depending on how the applicant's wells are utilized, the changes may move groundwater production slightly closer to those groundwater users. Adjacent households are either supplied by City of Prineville water or use shallow domestic wells that do not access the target aquifer.

   b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled?

   ☐ Yes ☒ No If yes, explain: The proposed changes could shift groundwater production from 2350 to 2250 feet from CROO 58. Any resulting changes in interference are unlikely to reach the threshold of substantial or undue interference.

5. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another surface water source**?

   ☐ Yes ☒ No Comments: The target aquifer is largely buffered from acute stream depletion by the laterally extensive overlying fluviolacustrine sediments. The aquifer may discharge to Crooked River further downstream, but the 100-foot location change in groundwater production would have negligible changes to stream depletion.

   b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any **surface water sources** resulting from the proposed change?

   Stream: _____ ☐ Minimal ☐ Significant

   Stream: _____ ☐ Minimal ☐ Significant

   Provide context for minimal/significant impact: _____

6. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?

   ☐ Yes ☐ No Comments: _____

7. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

8. Any additional comments:_____

References

McClaughry, J. D., et al. Geologic Map of the North Half of the Lower Crooked River Basin, Crook, Deschutes, Jefferson, and Wheeler Counties, Oregon, scale 1:63,360, 64" x 60". DOGAMI Bulletin 108

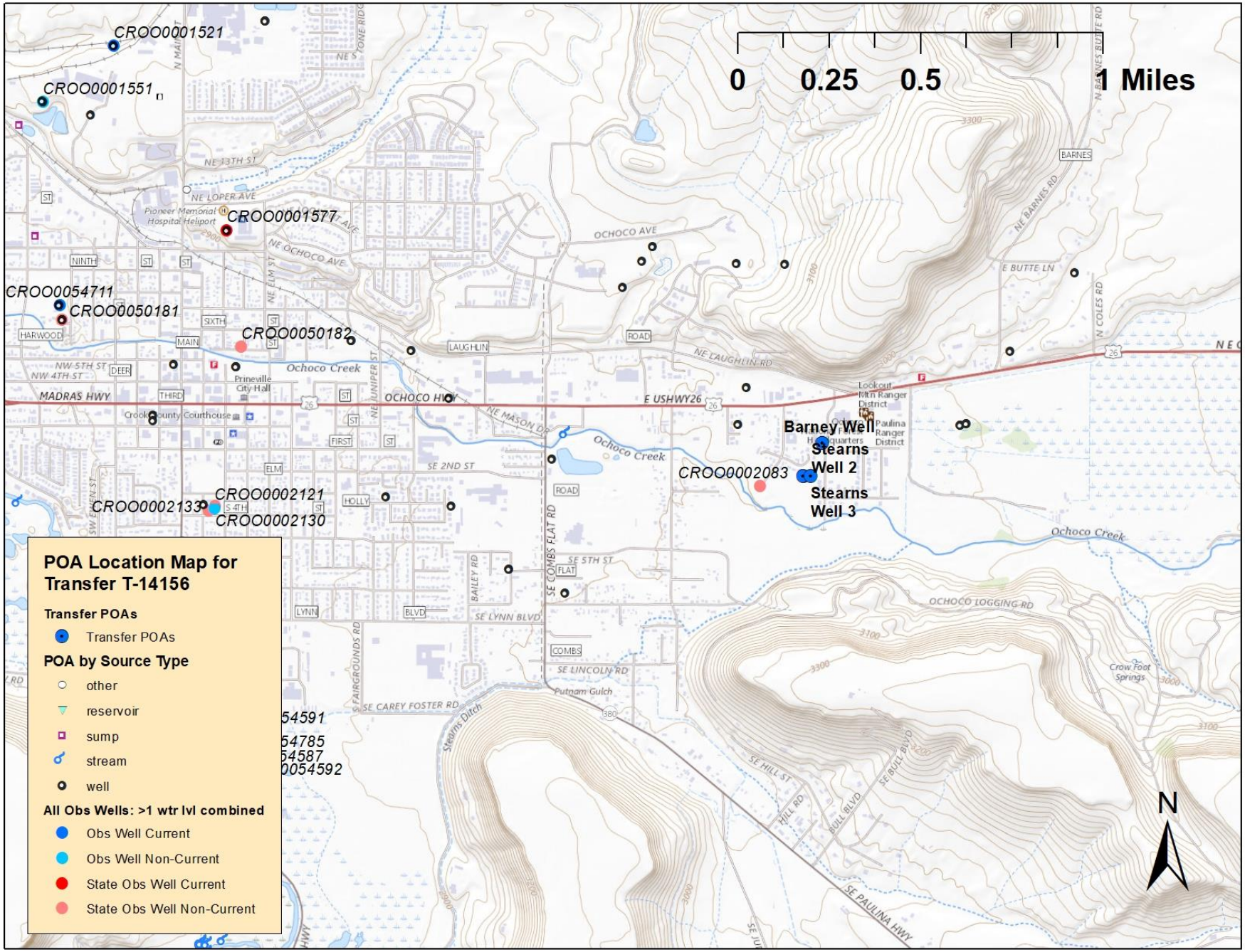
Robinson, J. W., and Don Price. 1964. Ground Water in the Prineville Area, Crook County, Oregon. USGS Water Supply Paper, https://doi.org/10.3133/wsp1619P.

Well Detail Table

Note: CROO 2083 & CROO 3132 have a well specific limit of 0.81 cfs under certificate 94816. The proposed APOA should also be limited to 0.81 cfs.

POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location	Permitted Rate (cfs)
1	Stearns Well 2	Authorized	CROO 2083	15S/16E-4 SW-NE	1810' S, 1151' E fr N 1/4 cor S 4	0.81
2	Barney Well	Authorized	CROO 3132	15S/16E-4 NE-NE	1315' S, 1370' E fr N 1/4 cor S 4	0.81
3	Stearns Well 3	Proposed	Not Constructed	15S/16E-4 SW-NE	1800' S, 1380' W fr NE cor S 4	0.81

Transfer Map



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Water Level Measurements in Nearby Observation Wells: CROO 50181, CROO 54711, and CROO 2121 access the target aquifer 1.5 to 2 miles west of the applicants wells. CROO 2130 and CROO 50182 are shallower and do not access the target aquifer.