

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14720

GW Reviewer Stacey Garrison Date Review Completed: 10/10/2025

## 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 Water Level Decline Condition Review:

Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

## 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.*



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## Ground Water Review Form:

- Water Right Transfer**
- Permit Amendment**
- GR Modification**
- Other**

Application: T-14720

Applicant Name: City of Jefferson

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

Reviewer(s): Stacey Garrison

Date of Review: 10/10/2025

Date Returned to WRSD: 10/22/2025

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 \_\_\_\_\_

1. Basic description of the changes proposed in this transfer: Applicant proposes to add six APOAs to **Certificate 50707**: APOA 1/Well 6 (**PROP 727**), APOA 2/Well 7 (**PROP 728**), APOA 3/Well 8 (**PROP 729**), APOA 4/Well 9 (**PROP 730**), APOA 5/Well 10 (**PROP 731**), APOA 6/Well 11 (**PROP 732**). Certificate 50707 is authorized at 1.32 cfs which is distributed as specified in the Final Proof Survey among the two authorized POAs at different rates: POA 1/Well 4 (**MARI 15026**) at 1.29 cfs (579 gpm); POA 2/Well 5 (**MARI 16235/MARI 70653**) at 0.03 cfs (13.5 gpm).
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
  - Yes     No    Comments: POA 1/Well 4 (**MARI 15026**) authorized at a rate of 1.29 cfs (579 gpm) develops the alluvial sand and gravel Willamette Aquifer. POA 2/Well 5 (**MARI 16235/MARI 70653**) authorized at a rate of 0.03 cfs (13.5 gpm) develops the bedrock aquifer, likely the Keasey formation, a Tertiary Marine Volcaniclastic Sedimentary unit (McClaughry et al., 2010; Wiley, 2006; Woodward et al., 1998). The six APOAs are proposed to be a maximum of 45 ft deep. The top of the bedrock in this area is at least 100 ft bls (Woodward et al., 1998), so the proposed APOAs are anticipated to develop the same, shallow sand and gravel aquifer as the 43 ft deep POA 1/Well 4 (**MARI 15026**).
3. a) Is the existing authorized POA subject to a water level decline condition?
  - Yes     No    Comments: \_\_\_\_\_

b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded: N/A

4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  
 Yes    No   Comments: See item 2 above. Certificate 50707 is split with 1.29 cfs assigned to POA 1/Well 4 (MARI 15026) and 0.03 cfs assigned to POA 2/Well 5 (MARI 16235/MARI 70653).
- 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.): Per the Final Proof Survey completed by the Department in 1978, 1.29 cfs is assigned to the shallow alluvial aquifer as represented by POA 1/Well 4 (MARI 15026) and 0.03 cfs is assigned to the bedrock aquifer, as represented by POA 2/Well 5 (MARI 16235/MARI 70653). As the APOAs are anticipated to develop the shallow, alluvial aquifer source utilized by POA 1/Well 4 (MARI 15026), only the 1.29 cfs portion should be transferred.
5. 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: \_\_\_\_\_
- 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: \_\_\_\_\_
6. 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: Wells 6, 7, and 8 are closer to the Willamette River than the authorized POAs. The reduced distance is anticipated to increase interference with the Willamette River.
- 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: Willamette River    Minimal    Significant
- Provide context for minimal/significant impact: Given the high transmissivity and strong hydraulic connection between the unconfined, shallow sand-and-gravel aquifer and the Willamette River, the reduced distance is not anticipated to significantly change the timing or intensity of interference with the Willamette River.
7. 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: NA
8. What conditions or other changes in the application are necessary to address any potential issues identified above: \_\_\_\_\_
9. Any additional comments: \_\_\_\_\_

## References

Transfer File: T-14720, Certificate 50707

Pumping Test Files: MARI 16277, MARI 16278, MARI 16286

Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-water hydrology of the Willamette Basin, Oregon, Scientific Investigations Report 2005-5168: U. S. Geological Survey, Reston, VA.

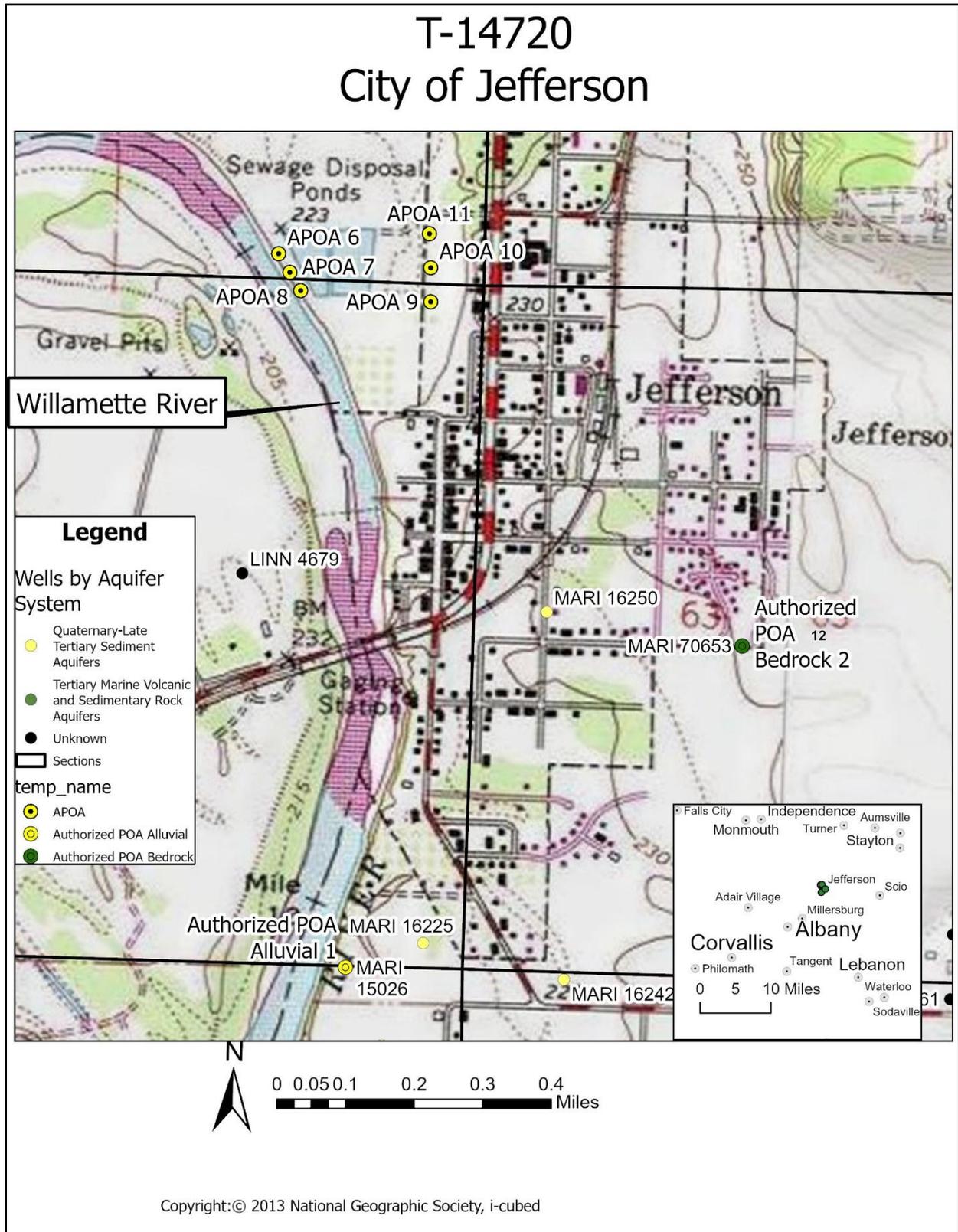
Hunt, B. 1999. Unsteady Stream Depletion from Ground Water Pumping. Journal of Hydrologic Engineering, Vol 8(1), pp 12-19

McCloughry, J. D., T. J. Wiley, M. L. Ferns, and I. P Madin. 2010. Digital Geologic Map of the Southern Willamette Valley, Benton, Lane, Linn, Marion, and Polk Counties, Oregon. Oregon Dept. of Geology and Mineral Industries. Open File Report O-10-13.

O'Connor, J.E., Sarna-Wojcick, A., Woznikak, K.C., Polette, D.J., Fleck, R.J., 2001, Origin, Extent, and Thickness of Quaternary Geologic Units in the Willamette Valley, Oregon; U.S. Geological Survey, Professional Paper 1620, 51 p.

Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

**Map**



**Surface Water Interference Analysis**

Application type:	T
Application number:	14720
Well number:	1
Stream Number:	1
Pumping rate (cfs):	1.29
Pumping duration (days):	365.0
Pumping start month number (3=March)	1.0
Plotting duration (days)	365

Parameter	Symbol	Scenario 1	Scenario 2	Scenario 3	Units
Distance from well to stream	a	70.0	200.0	300.0	ft
Aquifer transmissivity	T	16000	16000	16000	ft <sup>2</sup> /day
Aquifer storativity	S	0.15	0.15	0.15	-
Aquitard vertical hydraulic conductivity	Kva	0.05	0.05	0.05	ft/day
Not used		10.0	10.0	10.0	
Aquitard thickness below stream	babs	4.0	4.0	4.0	ft
Not used		0.2	0.2	0.2	
Stream width	ws	300.0	300.0	300.0	ft

Days	1	31	62	92	122	153	183	213	244	274	304	335	365
Depletion (%)	2	18	25	29	33	36	38	40	42	43	45	46	47
Depletion (cfs)	0.03	0.24	0.32	0.38	0.42	0.46	0.49	0.52	0.54	0.56	0.58	0.60	0.61

