

\Groundwater Transfer Review Summary Form

Transfer/PA # T- 14892

GW Reviewer Stacey Garrison Date Review Completed: 7/23/2026

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-14892

Applicant Name: Gregg Ditchen, Carol Ditchen

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

Reviewer(s): Stacey Garrison

Date of Review: 7/23/2026

Date Reviewed by GW Lead and Returned to WRSD: 7/23/2026

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 permanently transfer 10.2 ac of POU authorized under Certificate 56382 to Well 2 (MARI 3241). Certificate 56382 authorizes irrigation of 89.3 ac by Well 1 (MARI 3240) at a maximum rate of 1.1 cfs (494 gpm) and a maximum annual volume of 223.25 AF. This transfer, if approved, will be for the proportioned rate and volume of 0.126 cfs (56.4 gpm) and 25.5 AF, respectively. Well 2 (MARI 3241) is also authorized under Certificate 98367 to irrigate 15.5 ac at a maximum rate of 0.19 cfs (85.3 gpm) and a maximum annual volume of 38.75 AF. This review considers the total rates and volumes shown in the chart below.

Rates and Duties		POA 2/Well#2 (MARI 3241)
POU (ac)	T-14892 on Certificate 56382, this app	10.2 ac
	Certificate 98367	15.5 ac
	Total	25.7 ac
Authorized duty (AF/year)	T-14892 on Certificate 56382, this app	25.5 AF
	Certificate 98367	38.75 AF
	Total	64.25 AF
Flow rate CFS (gpm)	T-14892 on Certificate 56382, this app	0.126 cfs (56.4 gpm)
	Certificate 98367	0.19 cfs (85.3 gpm)
	Total	1.86 cfs (835 gpm)

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: Both wells develop multiple water-bearing sand/gravel lenses within the Willamette Aquifer between the elevations of 2 and 103 ft amsl.
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: Only the alluvial source is developed.
- 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.): N/A
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: The to-POA (MARI 3241) is closer to MARI 65374, an exempt domestic well. The reduced intervening distance is anticipated to result in an increase in interference with MARI 65374.
- 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 Theis (1935) solution for drawdown was used to assess the potential for injury to MARI 65374 from the proposed changes (see attached Theis Interference Analysis). Results indicate the proposed change is unlikely to result in MARI 65374 not receiving the water to which it is legally entitled
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: The to-POA (MARI 3241) is closer to Howel Prairie Creek than the from-POA (MARI 3240). The reduced intervening distance is anticipated to result in an increase in interference with Howel Prairie Creek.
- 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: Howel Prairie Creek ☒ Minimal ☐ Significant
- Provide context for minimal/significant impact: The thickness of the Missoula flood deposits that confine the water-bearing zones utilized by the POAs results in an inefficient hydraulic connection between the POAs and Howel Prairie Creek. The change in degree of interference with Howel Prairie Creek is expected to be minimal.
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: N/A
8. What conditions or other changes in the application are necessary to address any potential issues identified above: N/A

9. Any additional comments: N/A

References

Application File: T-14892

Well logs: MARI 3240, MARI 3241, MARI 65374

Pump Tests: MARI 3583, MARI 3584, MARI 3581, MARI 17933, MARI 3510, MARI 4407, MARI 50132, MARI 3219, MARI 53725, MARI 3507, MARI 3959, MARI 4443, MARI 62243, MARI 3216, MARI 3516, MARI 4414, MARI 4766, MARI 69450, MARI 17256, MARI 3475

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.

Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington, Professional Paper 1424-A, 32 p: U. S. Geological Survey, Reston, VA.

O'Connor, J.E., Sarna-Wojcick, A., Wozniak, 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.

United States Geological Survey, 2013, National Elevation Dataset (NED) [DEM geospatial data]. 1/9th arc-second, updated 2013.

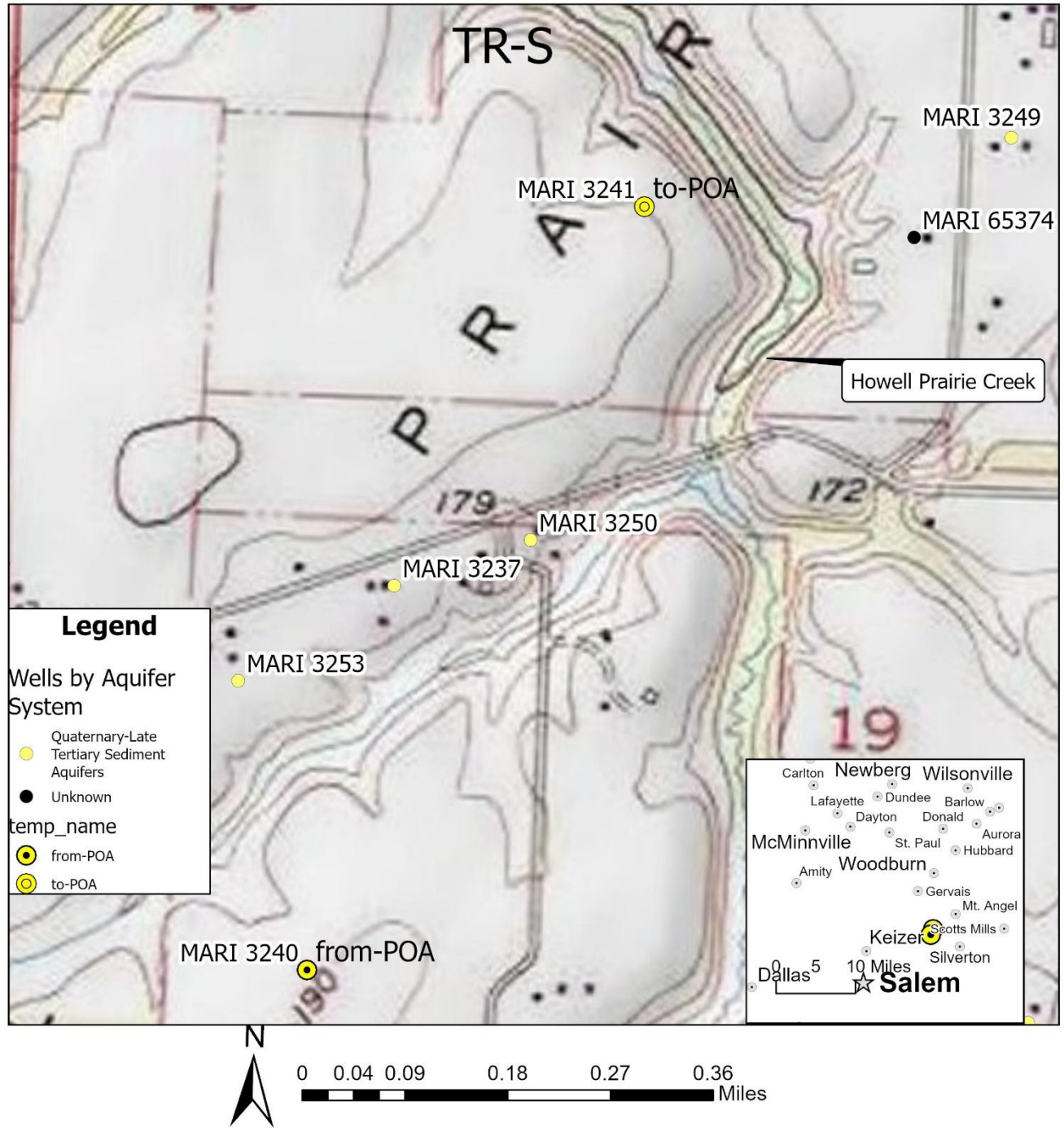
Watershed Sciences, 2009, LIDAR remote sensing data collection, Department of Geology and Mineral Industries, Willamette Valley Phase I, Oregon: Portland, OR, December 21.

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

T-14892 RA

Gregg Ditchen & Carol Ditchen

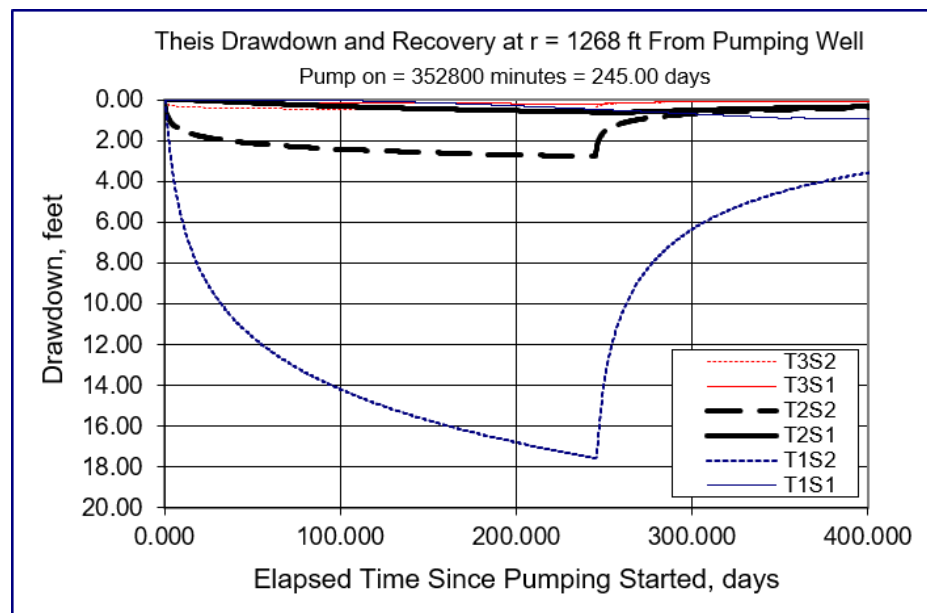


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Theis Interference Analysis

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		1268		ft	Q conversions
Pumping rate	Q		0.132215		cfs	59.34 gpm
Hydraulic conductivity	K	3.43	32.14	222.86	ft/day	0.13 cfs
Aquifer thickness	b		70		ft	7.93 cfm
Storativity	S 1		0.2			11,423.38 cfd
	S 2		0.0008			0.26 af/d
Transmissivity Conversions	T f2pd	240.1	2249.8	15600.2	ft ² /day	Recalculate
	T f2pm	0.16673611	1.56236111	10.8334722	ft ² /min	
	T_gpdft	1795.948	16828.504	116689.496	gpd/ft	

The to-POA (MARI 3241) could not pump the maximum total rate of 1.86 cfs (835 gpm) for the full duration of the authorized time period without exceeding the maximum volume of 64.25 AF. The averaged rate of 0.132215 cfs (59 gpm) would provide 64.25 AF over the 245-day irrigation season and is used.



SWL	90 ft bls	MARI 65374
Aquifer Bottom	207 ft bls	Woodward et al., 1998
Available Water Column	117 ft	Aquifer bottom-SWL
Pump Height Above Bottom	5 ft	Estimate
NPSHa	5 ft	Estimate
Drawdown	30 ft	Estimate
Minimum Water Column	40 ft	Estimated Drawdown + NPSHa + Pump Height
Injury	77 ft	Available Water Column-Minimum Water Column