

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14899

GW Reviewer Stacey Garrison Date Review Completed: 8/18/2026

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.



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-14899

Applicant Name: Lewis Land LLC c/o John Lewis

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

Reviewer(s): Stacey Garrison

Date of Review: 8/18/2026

Date Reviewed by GW Mgr. and Returned to WRSD: 8/18/2026

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 add APOA Well 5 (MARI 55544) to Claim GR-3981. Claim GR-3981 authorizes MARI 16432 irrigation of 28.8 ac at a maximum rate of 0.223 cfs (100 gpm) and a maximum annual volume of 30 AF/year. Well 5 (MARI 55544) is also authorized under Permit G-18909. This review evaluates for the total rate shown in the table below.

Rates and Duties		Well 5 (MARI 55544)
POU (ac)	This transfer, T-14899/Claim GR-3981	28.8 ac
	Permit G-18909	30 ac
	Total	58.8 ac
Authorized duty (AF/year)	This transfer, T-14899/Claim GR-3981	30 AF
	Permit G-18909	75 AF
	Total	105 AF
Flow rate CFS (gpm)	This transfer, T-14899/Claim GR-3981	0.223 cfs (100 gpm)
	Permit G-18909	0.37 cfs (166 gpm)
	Total	0.593 cfs (266 gpm)

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POA (MARI 16432) is 85 ft deep and develops the Willamette Aquifer (Woodward et al., 1998). The APOA (MARI 55544) develops the same source.
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: Well 5 (MARI 55544) is closer to MARI 16492 a POA on Certificate 55206. The closer proximity to MARI 16492 will likely result in an increase in interference with Certificate 55206.
- 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 change was analyzed using the Theis (1935) solution for drawdown in a confined aquifer (see attached Theis Well Interference Analysis). Hydraulic parameters used for the analysis were derived from regional data and studies (Pumping Test Reports; Conlon et al., 2003, 2005; Iverson, 2002; McFarland and Morgan, 1996; Woodward et al., 1998). Results of the analysis indicate that pumping the proposed To-POA at the rate of 0.34 cfs is unlikely to result in injury at the location of MARI 16492.
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: Well 5 (MARI 55544) is closer to Fruitland Creek. Although this stream is not perennial, there is a surface water POD under Certificate 23884 located 600 ft southeast of Well 5 (MARI 55544). The closer proximity to Fruitland Creek will likely result in an increase in interference with the surface water.
- 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: Fruitland Creek ☒ Minimal ☐ Significant

Provide context for minimal/significant impact: Given the thickness of the fine sediments between the streambed and the water-bearing zone utilized by the proposed APOA Well 5 (MARI 55544), the increase in interference with Fruitland Creek is anticipated 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-14899, T-14418

Well logs: MARI 16432, MARI 55544, MARI 16492

Pump Tests: MARI 7872, MARI 7461, MARI 7128, MARI 7582, MARI 7530, MARI 7581, MARI 8111, MARI 7393, MARI 17377

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.

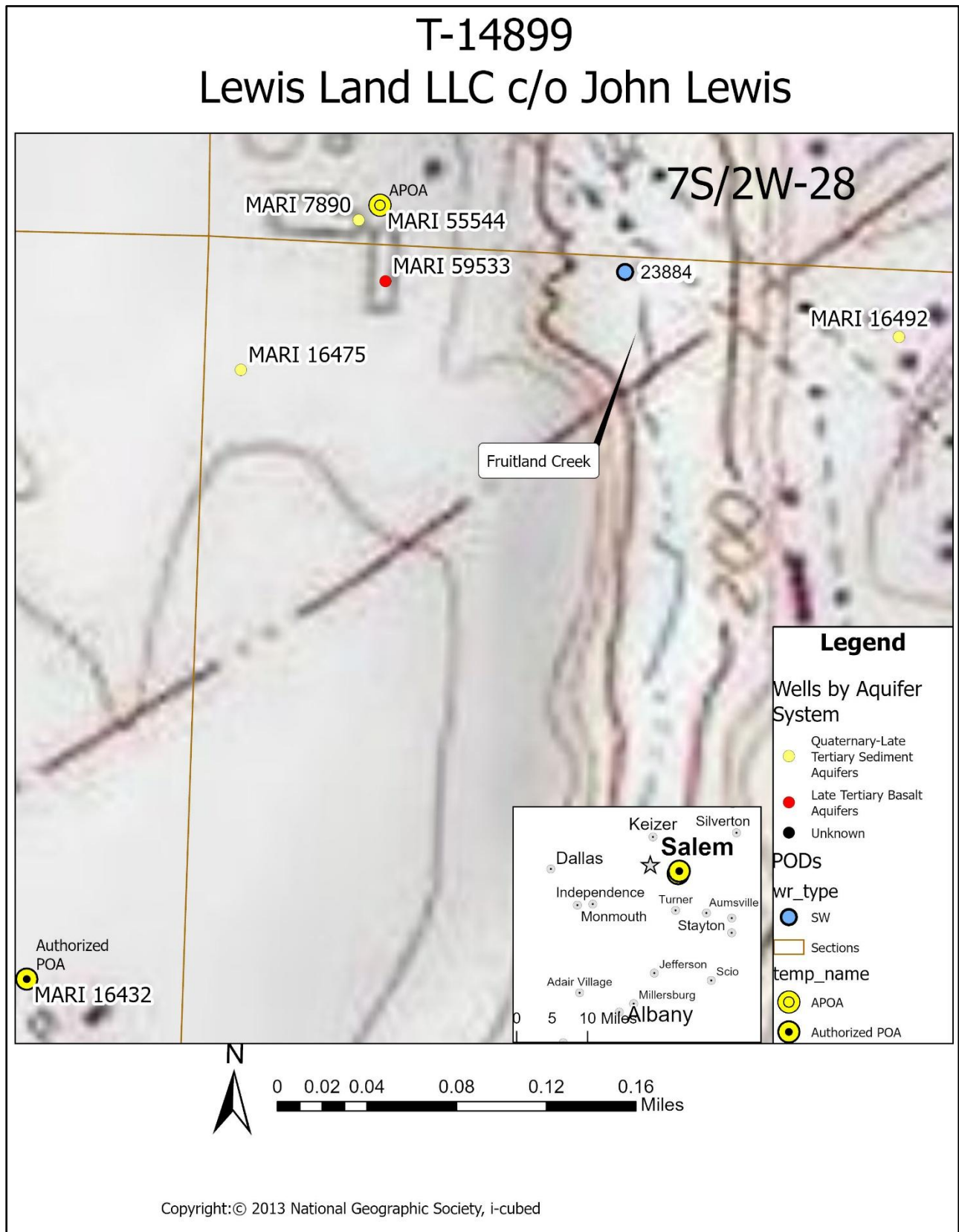
Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington, Professional Paper 1424-A, 32 p: U. S. Geological Survey, Reston, VA.

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.

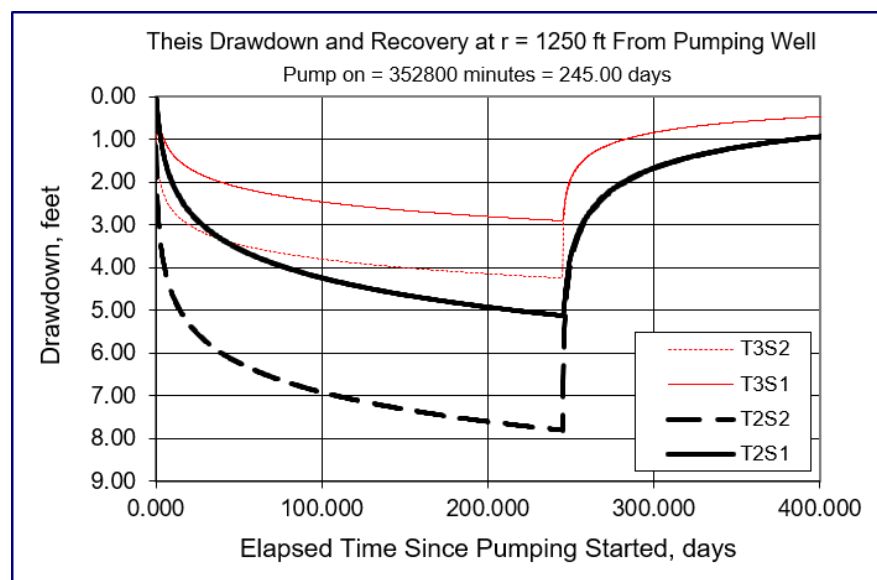
Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p

Map

Theis Drawdown and Injury Analysis

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		1250		ft	Q conversions
Pumping rate	Q		0.216072		cfs	96.97 gpm
Hydraulic conductivity	K	2	15	30	ft/day	0.22 cfs
Aquifer thickness	b		100		ft	12.96 cfm
Storativity	S 1		0.003			18,668.62 cfd
	S 2		0.0002			0.43 af/d
Transmissivity Conversions	T_f2pd	200	1500	3000	ft ² /day	Recalculate
	T_ft2pm	0.13888889	1.04166667	2.08333333	ft ² /min	
	T_gpdft	1496	11220	22440	gpd/ft	

The full rate of 0.593 cfs (266 gpm) could not be used for the entire 245-day irrigation season without exceeding the 105 AF annual volume. The averaged rate of 0.216072 cfs (97 gpm) could be used for the entire 245-day irrigation season to achieve an even distribution of the 105 AF annual volume. Scenarios T1S1 and T1S2 are not feasible as they result in de-watering of the pumping well within 4 hours, and are not shown below.



SWL	42 ft bls	MARI 16492
Aquifer Bottom	191 ft bls	Woodward et al., 1998
Available Water Column	149 ft	Aquifer bottom-SWL
Pump Height Above Bottom	5 ft	Estimate
NPSHa	5 ft	Estimate
Drawdown	10 ft	MARI 16492
Minimum Water Column	20 ft	Estimated Drawdown + NPSHa + Pump Height
Injury	129 ft	Available Water Column-Minimum Water Column

Surface Water Interference Analysis

Application type:	T	Parameter	Symbol	Scenario 1	Scenario 2	Scenario 3	Units
Application number:	14899	Distance from well to stream	a	600	600	600	ft
Well number:	2	Aquifer transmissivity	T	200	1500	3000	ft ² /day
Stream Number:	1	Aquifer storativity	S	0.0002	0.0008	0.003	-
Pumping rate (cfs):	0.216072	Aquitard vertical hydraulic conductivity	Kva	0.001	0.005	0.01	ft/day
Pumping duration (days):	245	Aquitard saturated thickness	ba	10	10	10	ft
Pumping start month number (3=March)	3.0	Aquitard thickness below stream	babs	25	25	25	ft
Plotting duration (days)	365	Aquitard specific yield	Sya	0.2	0.2	0.2	-
		Stream width	ws	20	20	20	ft

Stream depletion for Scenario 2:													
Days	10	330	360	30	60	90	120	150	180	210	240	270	300
Depletion (%)	0	0	0	0	0	0	0	0	0	0	0	0	0
Depletion (cfs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

