

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14887

GW Reviewer Stacey Garrison Date Review Completed: 7/31/2026

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-14887 Applicant Name: Arlene M Lucas Family Trust/Greg VanDamme

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

Reviewer(s): Stacey Garrison

Date of Review: 7/31/2026

Date Reviewed by GW Mgr. and Returned to WRSD: 7/31/2026

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 _____

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1. Basic description of the changes proposed in this transfer: Applicant proposes to move 9.1 ac of POU and add two APOAs (PROP 863/POA-2 and PROP 864/POA-3) on Claim GR-2468. Claim GR-2468 authorizes irrigation of 22 ac at a maximum rate of 0.1448 cfs (65 gpm) by authorized POA CLAC 2112/POA-1. The APOAs (PROP 863/POA-2 and PROP 864/POA-3) are evaluated at the apportioned rate of 0.06 cfs (27 gpm).
 2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POA (CLAC 2112) develops a water-bearing lens of sand and gravel within the Willamette Confining Unit/Lower Sedimentary Unit of the Willamette Aquifer (Conlon et al., 2005; Woodward et al., 1998). The APOAs (PROP 863/POA-2 and PROP 864/POA-3) are anticipated to develop 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: APOA 3/PROP 864 is closer to CLAC 2184, which is a POA authorized under Claim GR-3627. The reduced intervening distance is anticipated to result in an increase in interference with CLAC 2184.

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 CLAC 2184 from the proposed changes (see attached Theis Interference Analysis). Results indicate the proposed change is unlikely to result in CLAC 2184 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: Both APOAs (PROP 863/POA-2 and PROP 864/POA-3) are closer to Drescher Creek than the authorized POA (CLAC 2112). The reduced intervening distance is anticipated to result in an increase in interference with Drescher Creek.

Drescher Creek is in the BUTTE CR>PUDDING R-AT MOUTH, whereas the surface water source closest to the authorized POA (CLAC 2112) is in the PUDDING R>MOLALLA R-AB MILL CR WAB.

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: Drescher Creek

☒ Minimal ☐ Significant

Provide context for minimal/significant impact: The distance between the authorized POA (CLAC 2112) to Drescher Creek is approximately 5,000 ft and the distance between APOA 2/PROP 863 is 3,640 ft. Given the low transmissivity and low storativity values anticipated for this aquifer and the relatively small reduction in distance, the change in degree of interference with Drescher Creek is anticipated to be minimal.

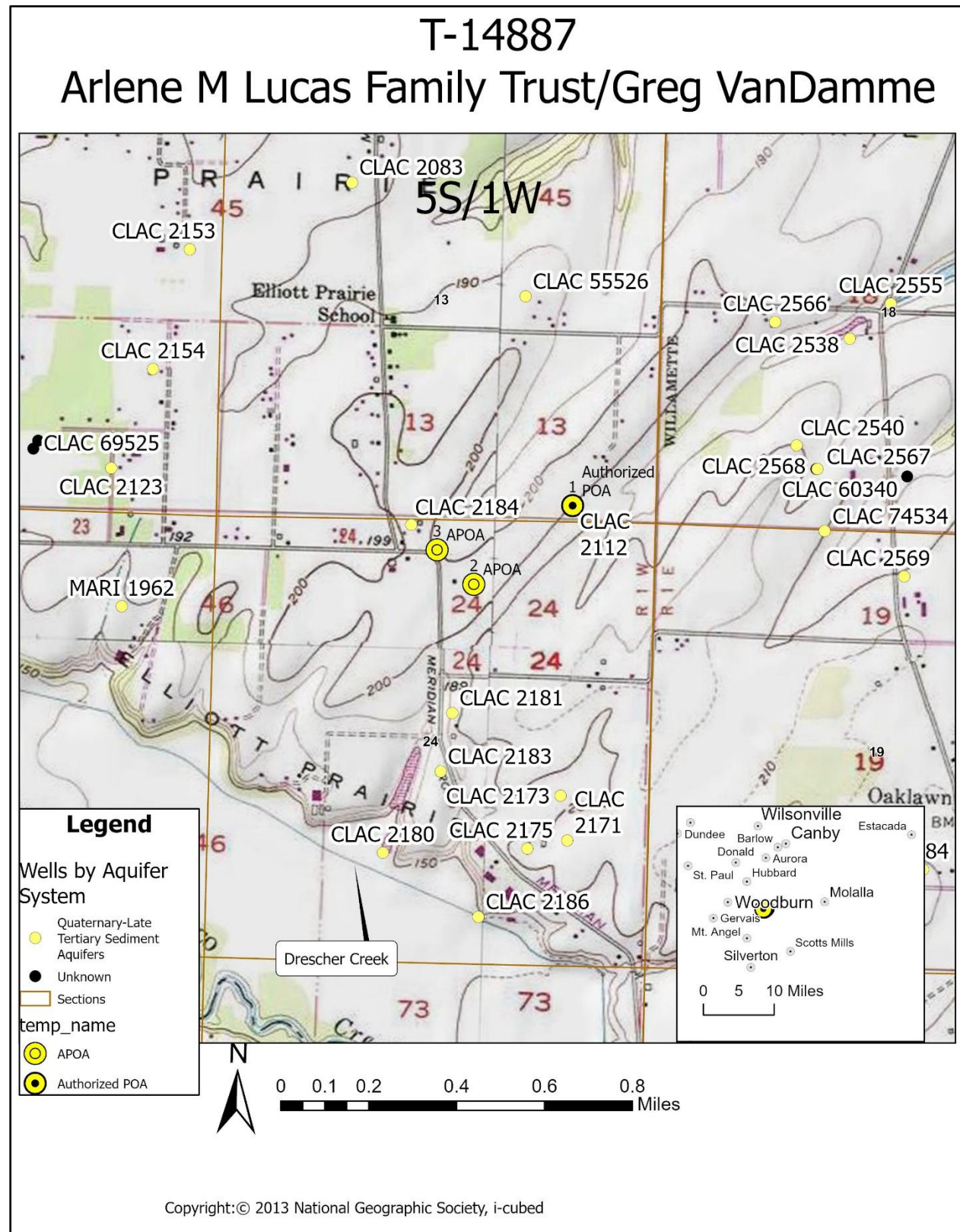
7. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?

☐ 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

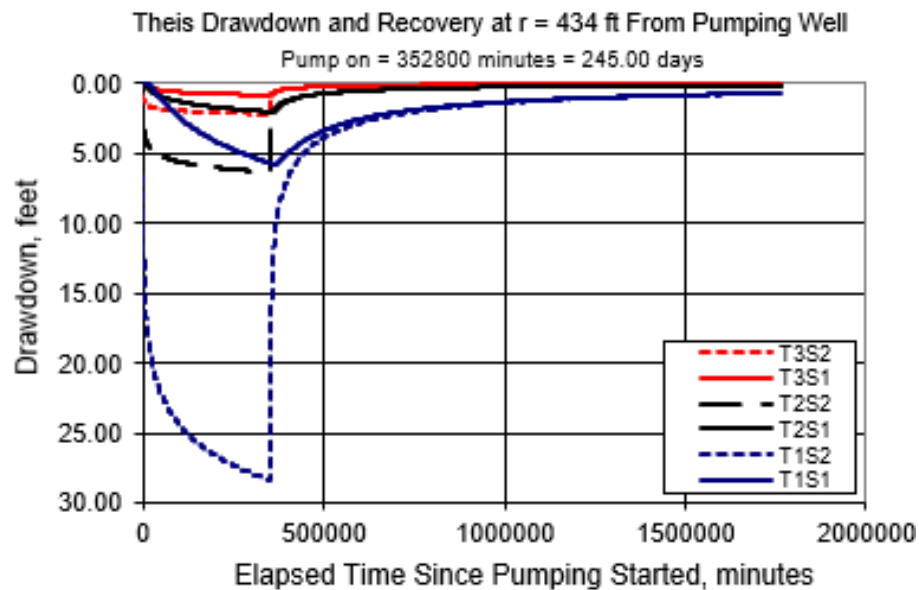
9. Any additional comments:

ReferencesApplication File: T-14887Well logs: CLAC 2112, CLAC 2184, CLAC 2183, CLAC 2540, CLAC 74534Pump Tests: CLAC 55526, CLAC 74534, MARI 1962, CLAC 2173, CLAC 2171Conlon, 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		434		ft	Q conversions
Pumping rate	Q		0.06		cfs	26.93 gpm
Hydraulic conductivity	K	1.3	6.9	22.26	ft/day	0.06 cfs
Aquifer thickness	b		100		ft	3.60 cfm
Storativity	S 1		0.07			5,184.00 cfd
	S 2		0.00005			0.12 af/d
Transmissivity Conversions	T_f2pd	130	690	2226	ft ² /day	Recalculate
	T_ft2pm	0.09027778	0.47916667	1.54583333	ft ² /min	
	T_gpdft	972.4	5161.2	16650.48	gpd/ft	



SWL	28 ft bls	Woodward et al., 1998
Aquifer Bottom	860 ft bls	Woodward et al., 1998
Available Water Column	832 ft	Aquifer bottom-SWL
Pump Height Above Bottom	5 ft	Estimate
NPSHa	5 ft	Estimate
Drawdown	50 ft	CLAC 2184
Minimum Water Column	60 ft	Estimated Drawdown + NPSHa + Pump Height
Injury	772 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:	14887	Distance from well to stream	a	3640	3640	3640	ft
Well number:	2	Aquifer transmissivity	T	130	690	2226	ft ² /day
Stream Number:	1	Aquifer storativity	S	0.00005	0.0005	0.07	-
Pumping rate (cfs):	0.06	Aquitard vertical hydraulic conductivity	Kva	0.001	0.005	0.01	ft/day
Pumping duration (days):	245	Aquitard saturated thickness	ba	2	2	2	ft
Pumping start month number (3=March)	3	Aquitard thickness below stream	babs	30	30	30	ft
Plotting duration (days)	365	Aquitard specific yield	Sya	0.2	0.2	0.2	-
		Stream width	ws	15	15	15	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

