

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14903

GW Reviewer Stacey Garrison Date Review Completed: 8/11/2026

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-14903 Applicant Name: Arlene M Lucas Family Trust/Gregory G Van Damme

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

Reviewer(s): Stacey Garrison

Date of Review: 8/11/2026

Date Reviewed by GW Mgr. and Returned to WRSD: 8/11/2026

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 proposed to move 71.2 ac of POU and add two APOAs (**PROP 863**/POA-3 and **PROP 864**/POA-4) on **Certificate 95762**. **Certificate 95762** authorizes multiple uses: Nursery use on 53.1 ac at a duty of 5 acre-feet/ac/year year-round; Irrigation use on 235.6 ac at a duty on 2.5 AF/ac/year from March 1-October 31; Supplemental irrigation on 85 ac at a duty of 2.5 AF/ac/year from March 1-October 31. Of the 71.2 ac of POU to be moved, 0 ac are for Nursery use, 62.1 are for Irrigation use, and 9.1 ac are for Supplemental irrigation use. The maximum rate for authorized POA 1/**CLAC 2173** is 0.37 cfs (gpm) and for authorized POA 2/**CLAC 2171** is 0.49 cfs (gpm); the apportioned rate for Irrigation use is 0.13 cfs and for Supplemental irrigation is 0.052 cfs.

The APOAs (**PROP 863**/POA-3 and **PROP 864**/POA-4) are also APOAs under concurrent T-14887. This review uses the apportioned and totaled rate for T-14887 and T-14903, shown in the table below.

Rates and Duties		APOAs (PROP 863 and PROP 864) ^a
POU (ac)	T-14903 RA/Certificate 95762-Irrigation	62.1 ac
	T-14903 RA/Certificate 95762-Supp Irr	9.1 ac
	T-14887/Claim GR-2468	9.1 ac
	Total	80.3 ac
Authorized duty (AF/year)	T-14903 RA/Certificate 95762-Irrigation	155.25 AF
	T-14903 RA/Certificate 95762-Supp Irr	22.75 AF
	T-14887/Claim GR-2468	29 AF ^b
	Total	207 AF
Flow rate CFS (gpm)	T-14903 RA/Certificate 95762-Irrigation	0.13 cfs (58 gpm)
	T-14903 RA/Certificate 95762-Supp Irr	0.052 cfs (23 gpm)
	T-14887/Claim GR-2468	0.06 cfs (27 gpm)
	Total	0.19 cfs (85 gpm) ^{c,d}

^a The application is not clear on to-POA vs APOA nor whether POA-4/PROP 864 is to be considered: p. 3 narrative identifies a single APOA; p. 11 Table 1B-GW lists 2 POAs both at 0.13 cfs; p.13 Table 2B-GW lists POA 3 and POA 4 in the table with change code APOA, but in additional remarks "this transfer seeks to establish proposed POA-3 as the sole POA for the portion of the POU included in the table"; in the map both POA-3 and POA-4 are included. This review considers both POA-3 and POA-4 as APOAs, as the most conservative solution. If the applicant wishes to clarify, an amended application should be submitted.

^b Claim GR-2468 does not identify a duty or maximum annual volume; 29 AF is the calculated maximum volume possible over the 245-day irrigation season at the apportioned rate of 0.06 cfs (27 gpm)

^c The maximum rate from either APOA is not to exceed 0.13 cfs (58 gpm) and is further limited to 0.052 cfs (23 gpm) for Supplemental Irrigation.

^d The maximum rate for each APOA is only capable of producing 63 AF over the 245-day irrigation season; for both APOAs, the total is 126 AF, indicating a deficit of approximately 100 AF.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POAs (CLAC 2173 and CLAC 2171) develop water-bearing layers within the Willamette Confining Unit/Lower Sedimentary Unit of the Willamette Aquifer between 21 and 250 ft bls [-56 to 186 ft amsl] (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 with open intervals from 150 to 250 ft bls [-52 to 59 ft amsl].

3. a) Is the existing authorized POA subject to a water level decline condition?

☒ Yes ☐ No

Comments: March static water levels are required to be measured and reported; if the annual measurements reveal certain decline conditions have occurred, the water user must discontinue use or reduce the rate or volume of withdrawal from the well(s). These decline conditions, listed below, should be included for any additional POAs/APOAs under Certificate 95762.

- An average water level decline of 3 or more feet per year for five consecutive years; or
- A water level decline of 15 or more feet in fewer than five consecutive years; or
- A water level decline of 15 or more feet; or
- Hydraulic interference leading to a decline of 15 or more feet in any neighboring well with senior priority.

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: Authorized POA 1/CLAC 2173 has a reference level of 23.58 ft bls and the most recent spring-high water level was 26.06 on March 14 2008; the permit decline conditions do not appear to have been exceeded, however, the reporting of March static water level is delinquent by 18 years. Authorized POA 2/CLAC 2171 has a reference level of 22.4 ft bls and the most recent spring-high water level was 37.55 ft bls on March 14 2008; the permit decline condition C has been exceeded and the reporting of a March static water level is delinquent by 18 years.

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 Certificate 95762. 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 Rock Creek than the authorized POAs (CLAC 2173 and CLAC 2171). The reduced intervening distance is anticipated to result in an increase in interference with Rock 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: Rock Creek

☒ Minimal ☐ Significant

Provide context for minimal/significant impact: The distance between the authorized POA (CLAC 2173) to Rock Creek is approximately 11,000 ft and the distance between APOA 2/PROP 863 is 10,000 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 Rock 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: Water level decline conditions on the APOAs.
9. Any additional comments: One of the authorized POAs on Certificate 95762 (CLAC 2171) had exceeded the decline conditions 18 years ago; it is not clear what the current status for either of the authorized POAs is as the water user has not reported water levels for either well for 18 years. Both the authorized POAs under Certificate 95762 that are delinquent in reporting March static water levels are also POAs under Certificate 95198 which also requires annual water level reporting. **If more recent data water level data for POA 2/CLAC 2171 is available demonstrating that water levels have recovered and no longer trigger decline conditions, then the finding under 3(b) above related to the decline condition would no longer apply.**

References

Application File: T-14887, T-14903

Well logs: CLAC 2112, CLAC 2184, CLAC 2183, CLAC 2540, CLAC 74534, CLAC 2173, CLAC 2171

Pump Tests: CLAC 55526, CLAC 74534, MARI 1962, CLAC 2173, CLAC 2171

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.

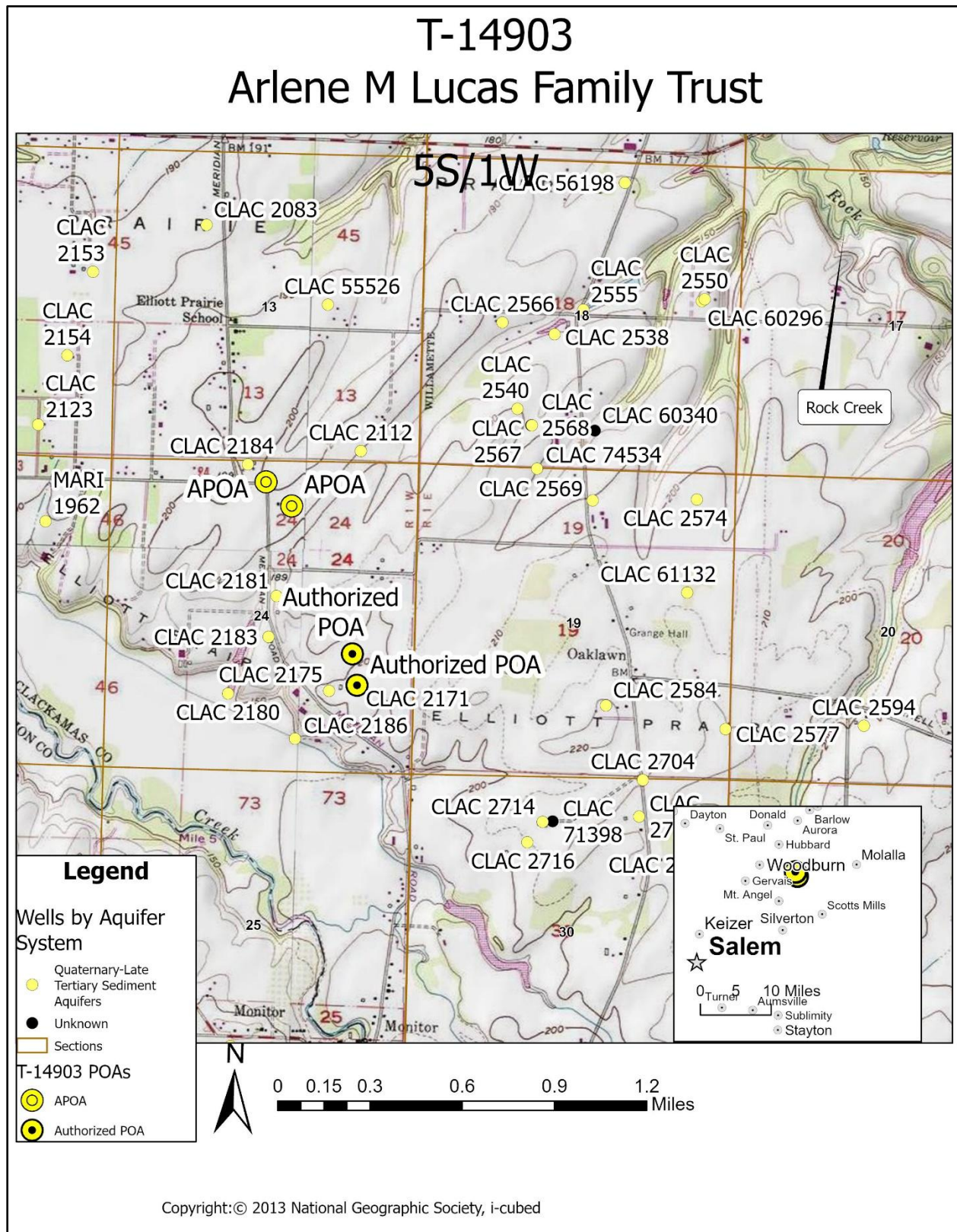
Gannett, M.W. and Caldwell, R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington, Professional Paper 1424-A, 32 p: U. S. Geological Survey, Reston, VA.

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.

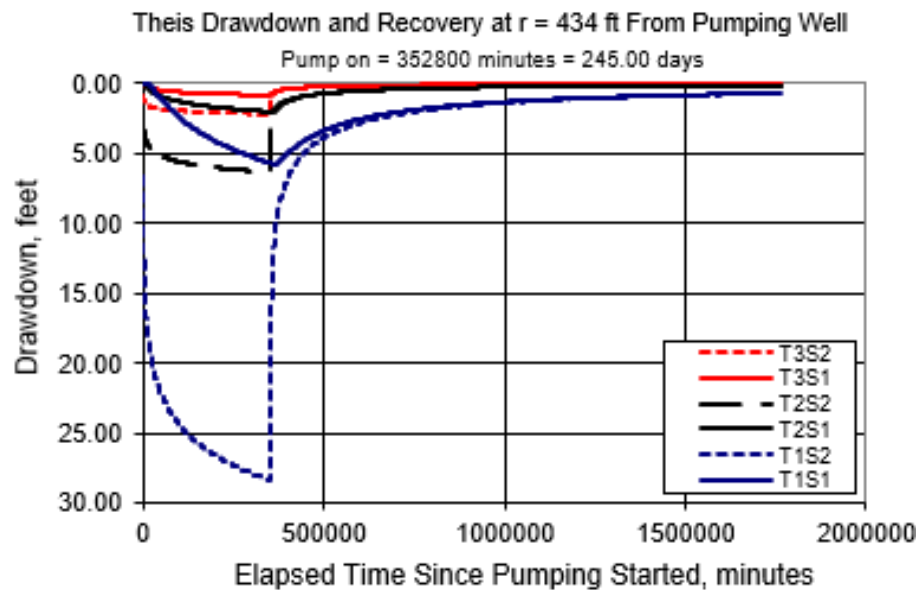
Watershed Sciences, 2009, LIDAR remote sensing data collection, Department of Geology and Mineral Industries, Willamette Valley Phase I, Oregon: Portland, OR, December 21.

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		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:	14903	Distance from well to stream	a	10000	10000	10000	ft
Well number:	3	Aquifer transmissivity	T	130.0	690.0	2226.0	ft ² /day
Stream Number:	1	Aquifer storativity	S	5e-5	0.0005	0.07	-
Pumping rate (cfs):	0.19	Aquitard vertical hydraulic conductivity	Kva	0.001	0.005	0.01	ft/day
Pumping duration (days):	245.0	Aquitard saturated thickness	ba	2.0	2.0	2.0	ft
Pumping start month number (3=March)	3.0	Aquitard thickness below stream	babs	30.0	30.0	30.0	ft
Plotting duration (days)	365	Aquitard specific yield	Sya	0.2	0.2	0.2	-
		Stream width	ws	50	50	50	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

