## **Groundwater Transfer Review Summary Form**

Transfer/PA # T- <u>14395</u>
GW Reviewer <u>Aaron Orr / Travis Brown</u> Date Review Completed: <u>11/5/2024</u>
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 pe 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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# OREGON

#### **Oregon Water Resources Department** 725 Summer Street NE, Suite A Salem, Oregon 97301-1271 (503) 986-0900 www.wrd.state.or.us

Other

OREGON WATER RESOURCES DEPARTMENT	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:		
Application: T-1	<u> 14395</u>		Applicant	Name: Westwood	1 Farms
Proposed Chang	ges: $\square$ POA	$\boxtimes$ APOA	$\square$ SW $\rightarrow$ GW	$\square$ RA	
	$\square$ USE	$\square$ POU	$\square$ OTHER		
Reviewer(s): <u>Aaron Orr / Travis Brown</u>			Г	oate of Review: 11	/5/2024
			Date Retur	rned to WRSD: 11	/5/2024
	provided in the apapproved because:	-	ufficient to evaluate	whether the propo	sed
	well reports provid the transfer.	ed with the app	lication do not corre	spond to the water	rights
			eports or a description		

1. Basic description of the changes proposed in this transfer: Applicant proposes to add an additional point of appropriation (APOA) to Certificate 35374. The authorized POA is MARI 2932. The proposed APOA is MARI 4811. Applicant proposes 36.7 acres of the 50.0 acres be transferred from the authorized POA to the APOA. The total appropriation, limited to 1/80 CFS per acre for irrigation, equals a transferrable rate of 0.46 CFS. The proposed APOA (MARI 4811) is also the sole requested POA for Application G-19414, which would authorize Irrigation of 37.79 acres which do not overlap the subject acreage of this transfer. Under the proposed change to Cert 35374 and the requested use per Application G-19414, the maximum combined rate for the proposed APOA (MARI 4811) would be 0.93 cfs and the maximum combined duty would be 186.225 af/yr.

2.	Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
	aquifer as the authorized POA (Willamette Aquifer, Upper Sedimentary Unit)

a) Is there more than one source developed under the right (e.g., basalt and alluvium)? ☐ Yes ⊠ No

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

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the Portland Basin, Oregon and Washington." USGS Numbered Series. Description of the Ground-Water Flow System in the Portland Basin, Oregon and Washington. Water Supply

McFarland, W.D., and D.S. Morgan, 1996, "Description of the Ground-Water Flow System in

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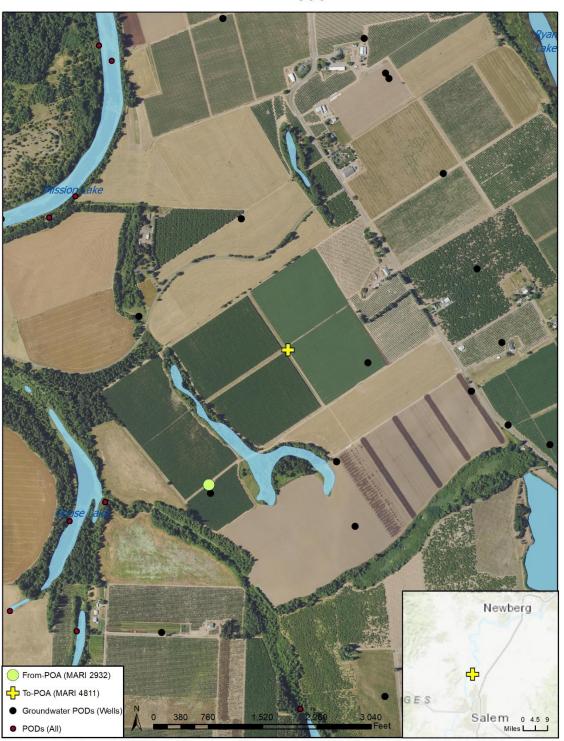
Paper. Washington D.C.: U. S. Geological Survey, 1996. B3. GW Library. https://doi.org/10.3133/wsp2470A.

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.

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#### **Well Location Map**

T-14395



Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

### Theis Interference Analysis

**Hydraulic Conductivity**: Values ranged from 140 ft/day (McFarland and Morgan, 1996) to 600 ft/day (Woodward et al., 1998). The final transmissivity estimates of 4,740 (**T1**), 9,090 (**T2**), and 13,950 (**T3**) ft²/day were the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> quartiles from 200-model runs using a range of the previously stated hydraulic conductivity values.

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Storativity: 0.0003 to 0.03 (McFarland and Morgan, 1996; Conlon et al., 2005, Table 1). The final storativity estimates of 0.051 (S1) and 0.15 (S2) are the 1<sup>st</sup> and 3<sup>rd</sup> quartiles from 200-model runs using a range of the previously stated storativity values.

Time: 245 days (Irrigation Season).

Rate: (1) 0.93 cfs (maximum combined rate) for the APOA (MARI 4811), (2) 0.17 cfs (remaining rate) for the authorized POA (MARI 2932).

**Distance:** (1) 2,000 feet from the APOA (MARI 4811) to MARI 4184; (2) 3,750 feet from the authorized POA (MARI 2932) to MARI 4184.

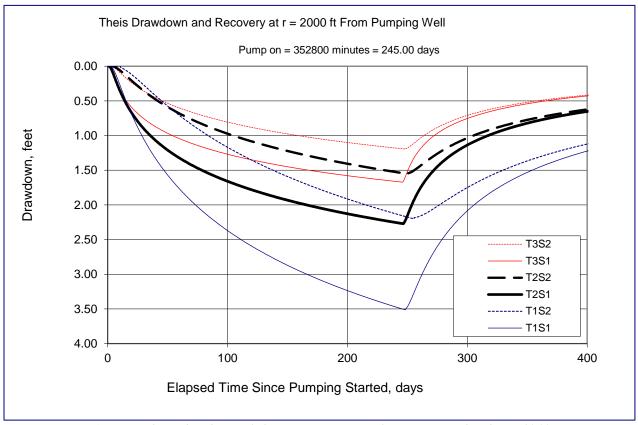


Figure 1. Estimated time-drawdown with the To-POA pumping at the maximum combined rate of 0.93 CFS

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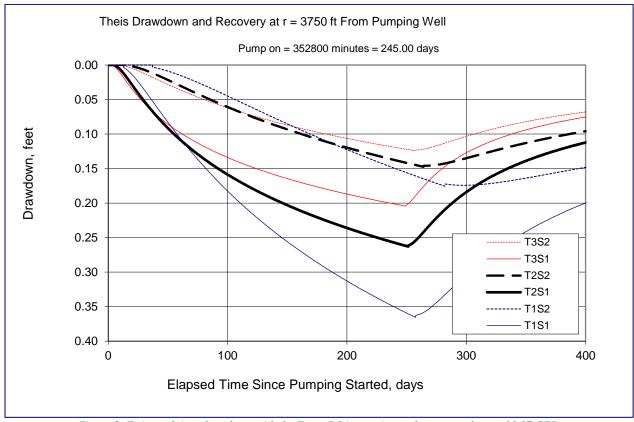


Figure 2. Estimated time-drawdown with the From-POA pumping at the proposed rate of 0.17 CFS