Groundwater Transfer Review Summary Form

Transfer/PA # T- <u>14251</u>
GW Reviewer <u>Dennis Orlowski</u> Date Review Completed: <u>December 22, 2023</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 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:
$\hfill\Box$ 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

Version: 20210204



affected by the transfer.

Other

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

OREGON WATER RESOURCES DEPARTMENT	725 Sale (503	egon Water Resources Department 5 Summer Street NE, Suite A em, Oregon 97301-1271 (3) 986-0900 www.wrd.state.or.us		Ground Water Review Form			
Application: T-14	4251	<u>-</u>	App	licant Name: Willan	nette Tree Wholesale Inc		
Proposed Change	es:	⊠ POA □ USE	⊠ APOA □ POU	□ SW→GW □ OTHER	□ RA		
Reviewer(s): De	enni	s Orlowski		Dat	te of Review: <u>12/22/2023</u>		
		Date	Reviewed by G	W Mgr. and Return	ed to WRSD: <u>12/22/2023</u>		
The information transfer may be a	-	-	plication is inst	afficient to evaluate	whether the proposed		

Basic description of the changes proposed in this transfer: This proposed changes relates to **certificate 40295** (primary irrigation of 58.0 acres, single authorized POA (MARI 4898)) and certificate 50713 (primary irrigation of 113.0 acres, supplemental 41.0 acres, two authorized POA (MARI 4880 and MARI 4897)). The POA and POU locations are in the French Prairie region about 3-4 miles due north of the Salem-Keizer area. MARI 4880 is

The water well reports provided with the application do not correspond to the water rights

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.

This application proposes the following changes:

also the authorized POA for irrigation claim GR 3046.

Certificate 40295: change POA to three existing wells (MARI 4897, MARI 70766, MARI 4888) for irrigation of a 30.6 acre portion of the authorized POU.

Certificate 50713: add two APOA (existing wells MARI 4888, MARI 70766) for irrigation of an 84.1 acre portion of the authorized POU.

Note: concurrently-submitted application T-14252 is related to this application; T-14252 is a proposed modification to GR 3046 (irrigation of 138.2 acres, maximum pumping rate 1.2254 cfs (550 gpm)) to change its authorized POA MARI 4880 to two new POA, MARI 70766 and MARI 4888, for irrigation of a 40.0 acre portion of the POU registered under GR 3046.

> Page 1 of 5 Version: 20210204

POA MARI 4880 (farthest), the large overall distances suggest that it is not likely the proposed use will result in an increase in interference with this surface water source.

> Page 2 of 5 Version: 20210204

b) If yes, at its maximum allowed rate		1 0
interference with any surface water so	ources resulting	from the proposed change?
Stream:	\square Minimal	☐ Significant
Stream:	\square Minimal	☐ Significant
Provide context for minimal/significan	t impact: <u>N/A</u>	
For SW-GW transfers, will the propose water source similarly (as per OAR 690-specified in the water use subject to tra	380-2130) to the	
\square Yes \square No Comments: $\underline{N/A}$		
	4	

Transfer Application: T-14251

- 6. What conditions or other changes in the application are necessary to address any potential issues identified above: None
- 7. Any additional comments: None

References

5.

<u>Application file: T-14251; Groundwater Reviews: T-14252, T-12558, T-12416, T-12360, T-12361, G-18430</u>

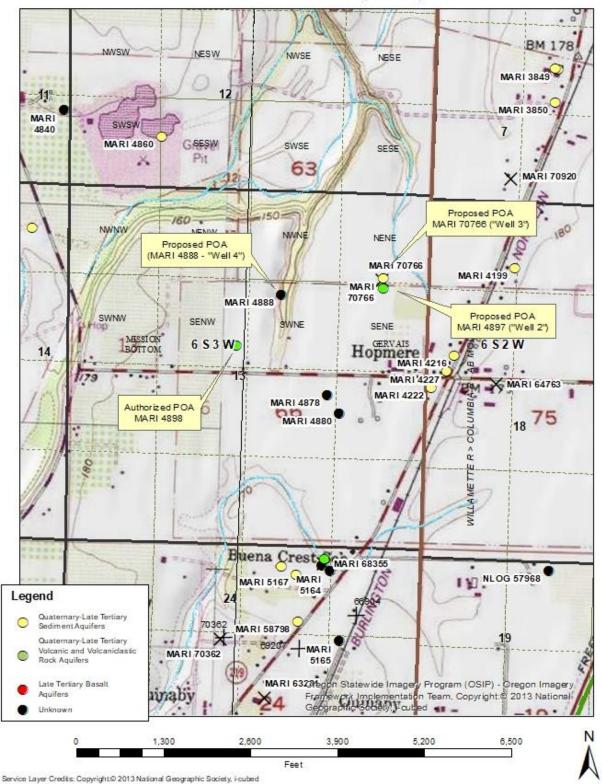
Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-water hydrology of the Willamette Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2005-5168.

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

Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, American Geophysical Union Transactions, vol. 16, p. 519-524.

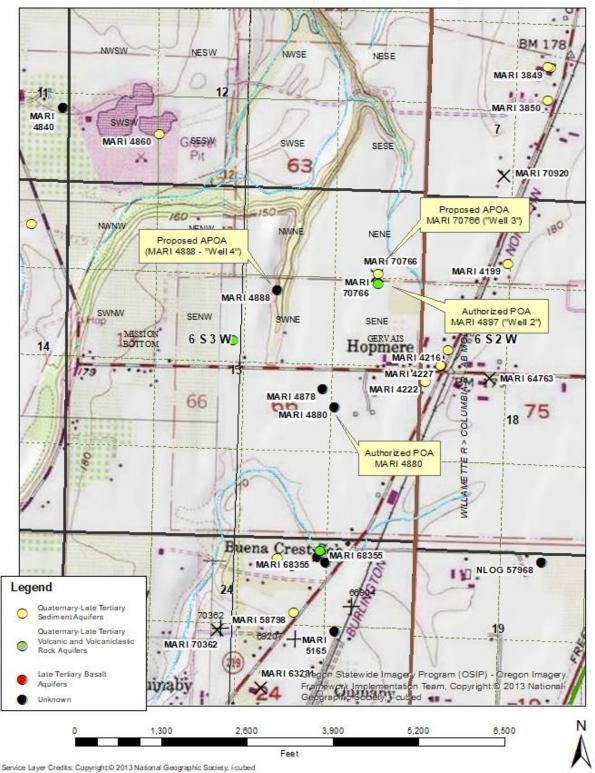
Page 3 of 5 Version: 20210204

Application T-14251 Willamette Tree Wholesale Certificate 40295 T6S, R3W, S13



Page 4 of 5 Version: 20210204

Application T-14251 Willamette Tree Wholesale Certificate 50713 T6S, R2W, S13; T6S, R3W, S13 & 14



Page 5 of 5 Version: 20210204

Theis Analysis: authorized POA (MARI 4898) to MARI 4199

Theis Time-Drawdown Worksheet v.5.00

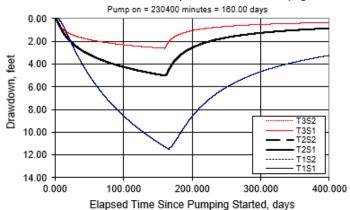
Calculates Theis nonequilibrium drawdown and recovery at any arbitrary radial distance, r, from a pumping well for 3 different T values and

radial distance, r, from a pumping well for 3 different T values and 2 different S values. Written by Karl C. Wozniak September 1992. Last modified December 17, 2019

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		160		d	
Radial distance from pumped well:	r		4350		ft	Q conversions
Pumping rate	Q		1.2254		cfs	549.96 gpm
Hydraulic conductivity	K	25	100	250	ft/day	1.23 cfs
Aquifer thickness	b		50		ft	73.52 cfm
Storativity	S_1		0.005			105,874.56 cfd
	S_2		0.005			2.43 af/d
Transmissivity Conversions	T_f2pd	1250	5000	12500	ft2/day	,
	T_ft2pm	0.868056	3.472222	8.680556	ft2/min	Recalculate
	T_gpdpft	9350	37400	93500	gpd/ft	

Use the Recalculate button if recalculation is set to manual

Theis Drawdown and Recovery at r = 4350 ft From Pumping Well



Theis Analysis: proposed POA (MARI 70766) to MARI 4199

Theis Time-Drawdown Worksheet v.5.00

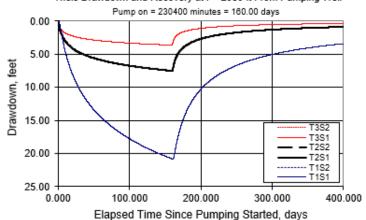
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Written by Karl C. Wozniak September 1992. Last modified December 17, 2019

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		160		d	
Radial distance from pumped well:	r		2050		ft	Q conversions
Pumping rate	Q		1.2254		cfs	549.96 gpm
Hydraulic conductivity	K	25	100	250	ft/day	1.23 cfs
Aquifer thickness	b		50		ft	73.52 cfm
Storativity	S_1		0.005			105,874.56 cfd
	S_2		0.005			2.43 af/d
Transmissivity Conversions	T_f2pd	1250	5000	12500	ft2/day	
	T_ft2pm	0.868056	3.472222	8.680556	ft2/min	Recalculate
	T_gpdpft	9350	37400	93500	gpd/ft	

Use the Recalculate button if recalculation is set to manual

Theis Drawdown and Recovery at r = 2050 ft From Pumping Well



Page 1 of 1 Version: 20210204