

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14252

GW Reviewer Dennis Orlowski Date Review Completed: December 20, 2023

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 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-14252

Applicant Name: Willamette Tree Wholesale Inc.

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

Reviewer(s): Dennis Orlowski

Date of Review: 12/20/2023

Date Reviewed by GW Mgr. and Returned to WRSD: 12/20/2023

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: This proposed modification relates to GR 3046, which registers the use of a single POA (MARI 4880) to provide groundwater for the irrigation of 138.2 acres (max. rate 1.2254 cfs (550 gpm)) in the French Prairie region about 3-4 miles due north of the Salem-Keizer area. MARI 4880 is also the authorized POA for irrigation certificate 50713.

The modification proposes to change the POA to two existing wells, MARI 70766 ("Well 3") and MARI 4888 ("Well 4"), for irrigation of a 40.0 acre portion of the POU registered under GR 3046.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The authorized POA MARI 4880 is 140 feet deep and obtains groundwater from confined sand and gravel deposits of the Willamette Aquifer system (Gannett and Caldwell, 1998; Conlon and others, 2005). Proposed POA MARI 70766 and MARI 4888 are 257 and 163 feet deep, respectively, and also produce groundwater from the same aquifer source.
3. 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

4. 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: Relative to the authorized POA (MARI 4880) location, the locations for the two proposed POA (MARI 70766 and MARI 4888) are not relatively nearer to any known groundwater right. Furthermore, none of the area's wells fully penetrate the alluvial aquifer system in this area, estimated to be about 500-700 feet thick (Gannett and Caldwell, 1998), and thus are not subject to injury determinations. Nonetheless, the performance of wells in this area (e.g., specific capacity value and reported well yield for MARI 58798) indicate a very prolific Willamette Aquifer system that should help mitigate any potential well interference effects not identified in this review.
- 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: N/A
5. 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: All three wells are located from ~1.2 to 1.5 miles to the nearest perennial stream reach (Patterson Creek). Although proposed POA MARI 70766 is about 2100 ft nearer to this stream relative to authorized POA MARI 4880, the actual overall distances suggest that it is not likely the proposed use will result in an increase in interference with this surface water source.
- 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: _____ ☐ Minimal ☐ Significant
Stream: _____ ☐ Minimal ☐ Significant
Provide context for minimal/significant impact: N/A
6. 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
7. What conditions or other changes in the application are necessary to address any potential issues identified above: None
8. Any additional comments: None

References

Application file: T-14252; Groundwater Reviews: T-12558, T-12416, T-12360, T-12361, G-18430

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.

Application T-14252 Willamette Tree Wholesale T6S, R3W, Section 13

