Groundwater Transfer Review Summary Form

Transfer/PA # T- _14004_

GW Reviewer _Mitra Khadka_ Date Review Completed: _8/9/2023_

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.

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Ground Water Review Form:

☐ **Water Right Transfer**
☐ **Permit Amendment**
☒ **GR Modification**
☐ **Other**

Application: T-14004 Applicant Name: Egan Garden

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

Reviewer(s): Mitra Khadka Date of Review: 8/9/2023

Date Returned to WRSD: 9/5/2024

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 requests a modification to an existing groundwater Registration GR-3914 (Certificate no. GR-3552). The Registration GR-3914 currently authorizes to irrigate 20 acres at a maximum rate of 86 gpm (~0.19 cfs) from an authorized well, MARI 3849. Applicant proposes to include an additional POA (MARI 3843) to the Registration GR-3914. Applicant has also reported that the place of use (POU) in the original registration is inaccurate and needs modification. Applicant has completed a lot line adjustment to TL 400 and requests a change to the POU accordingly.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: Current authorized POA (MARI 3849) is completed at a depth of 117 ft bls and produces groundwater from the Willamette Aquifer, which is composed of unconsolidated sands and gravels in the area (Gannet and Caldwell, 1998; Conlon et al., 2005). The proposed APOA (MARI 3843) is completed 120 ft bls and will produce from the same aquifer as the authorized one. In this area, the aquifer is about 80 feet thick and is overlain by about 60-80 feet thick of fine-grained, low permeability Willamette Silt Unit (Gannett and Caldwell, 1998; Well-log MARI 3843 and MARI 3844).

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.): _____

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: The proposed POA (MARI 3843) is located ~1300 ft northwest of the nearest groundwater user MARI 4819, while the authorized POA (MARI 3849) is located ~1260 ft northwest. The longer intervening distance would diminish interference with MARI 4819.

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: _____

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: The closest perennial stream, an unnamed tributary to the Patterson Creek is located ~3280 ft northwest of the proposed APOA (MARI 3843) and ~3320 ft northwest of the authorized POA (MARI 3849). The shorter intervening distance will likely increase interference with the tributary.

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: Unnamed Tributary to Patterson Creek ☒ Minimal ☐ Significant

Provide context for minimal/significant impact: The Willamette Aquifer in this area is overlain by about 60-80 ft of the Willamette Silt Unit (WSU). The tributary is partially incised into the WSU and appears to be underlain by about 40-60 ft low permeability sediments from the WSU. Given the confined nature of the aquifer and presence of a thick sequence of low permeability sediments, interference with surface water sources is assumed to be minimal.

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: _____

7. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

8. Any additional comments:_____

References:

Application File: T-14004

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, 83 p.

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.

Well-log Report: MARI 3843, MARI 3844

Location Map