

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14254

GW Reviewer Phillip I. Marcy Date Review Completed: 10/31/2023

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-14254

Applicant Name: Bo Jiang

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

Reviewer(s): Phillip I. Marcy

Date of Review: 10/31/2023

Date Returned to WRSD: 9/10/2024

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: The applicant proposes to replace POA 2 (“Well 3”) with a new POA 3 (“Well 3”) on a different portion of the applicant’s property that currently does not have access to water.
 2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 - Yes No Comments: Existing POAs, including the only constructed well BENT 56496, are authorized to produce from alluvium. The proposed POA is planned to be 50’ deep and produce from basalt, though basalt is not mapped in the area. Based on geologic mapping and well log reports for wells in the area of the proposed POA, any production is anticipated to be from marine sedimentary rocks of the Spencer Formation. These older, more compacted rocks produce only small quantities of groundwater as compared to the younger Holocene alluvium and Willamette Silt that onlap these older rocks.
 3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
 - Yes No All POA wells are authorized to produce from alluvium.

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.): NA

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 location is closer to BENT 55815 (860') than the currently authorized POA (2,360'), authorized under Certificate 96135, which produces from the shallow alluvial aquifer.
 - 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 expected lithologies tapped by the proposed POA well are unlikely to produce more than 5 GPM, and the cone of depression induced by this pumping within the marine sedimentary sequence is anticipated to shallow within the more permeable Quaternary sediments from which BENT 55815 produces.

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 proposed POA location is not significantly closer to any 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: NA Minimal Significant
Stream: NA Minimal Significant
Provide context for minimal/significant impact: NA

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: NA

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

8. Any additional comments: If constructed, the proposed POA would not produce from the same aquifer as the authorized POA it is replacing, as the alluvial sediments do not exist at the proposed location. Furthermore, any well constructed within the marine sedimentary rock sequence is unlikely to produce groundwater at the desired rate. If the applicant wishes to construct a well for domestic supply at this location, however, production may be adequate and the use would be considered exempt and not require a water right.



