

Groundwater Transfer Review Summary Form

Transfer/PA # T- 13633

GW Reviewer Joe Kemper Date Review Completed: 7/31/2023

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-13633

Applicant Name: Water Wonderland Improvements District

Proposed Changes: POA, APOA, SW to GW, RA, USE, POU, OTHER

Reviewer(s): Joe Kemper

Date of Review: 7/31/2023

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 2/15/2413

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: Permit G-12649 currently authorizes 3.12 cfs of quasi-municipal use from DESC 6340 (0.76 cfs), DESC 1656 (1.25 cfs), and DESC 1441 (1.11 cfs). This transfer requests to change POA from DESC 6340 to DESC 53974, to amend the location for DESC 1656, and change POA from DESC 1441 to DESC 52615. The transfer also requests to eliminate the well specific rate limitations so any POA could pump at the total maximum rate (3.12 cfs).

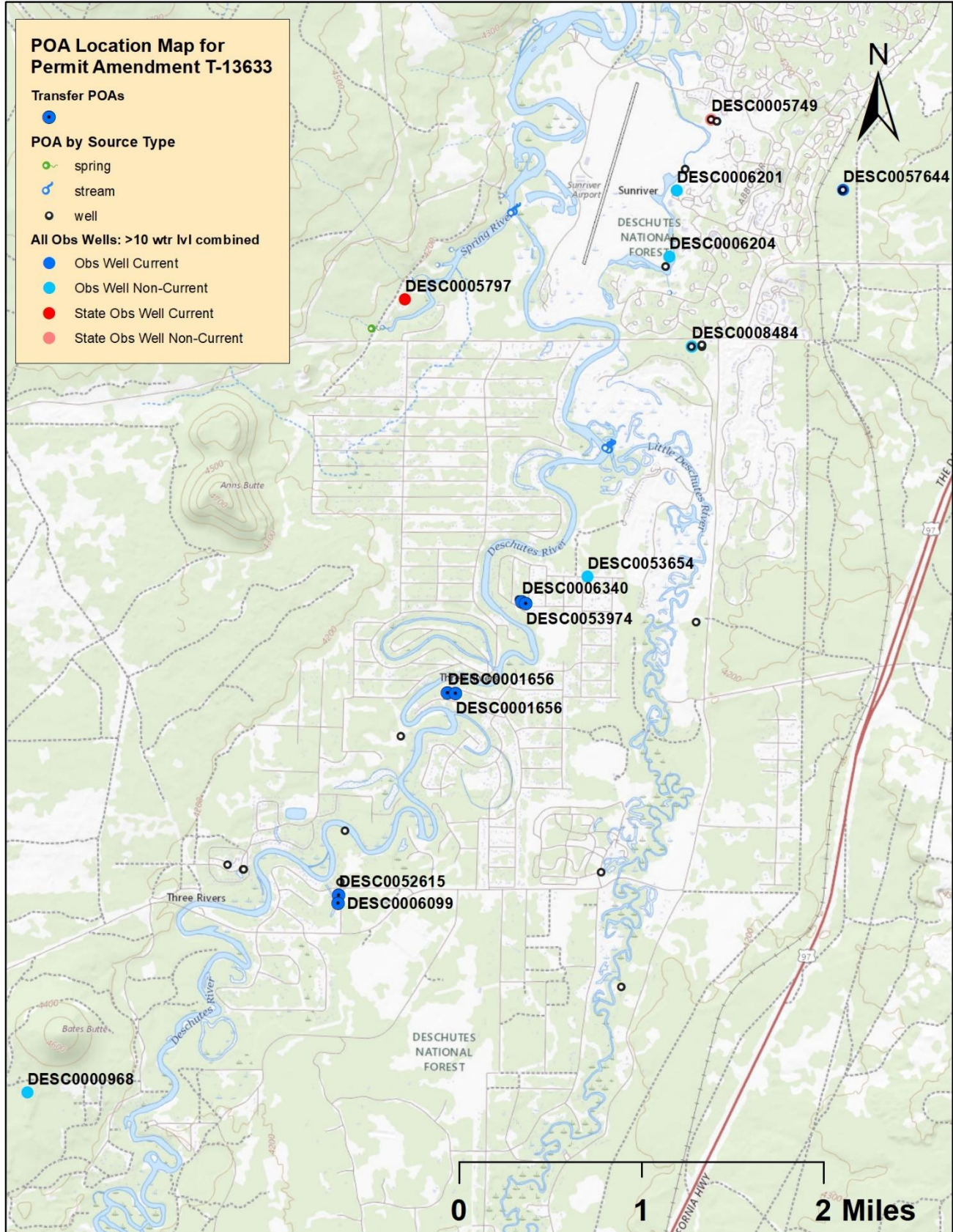
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
Yes No Comments: Generally speaking, the applicant's wells access Quaternary-aged alluvium in the La Pine basin with some interbedded extrusive volcanics. Water levels indicate that the entire system is hydraulically connected vertically. Replacement wells (DESC 53974 and DESC 52615) are drilled immediately adjacent to the current permitted wells. They are drilled deeper in a system that is vertically hydraulically connected.

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

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 current and proposed POAs are located in an area that has relatively high permitted and exempt groundwater development. The change in POAs and maximum pumping rates could create small changes (several feet) in well-to-well interference.
- 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: Any expected well-to-well interference is not expected to reach the level that would be considered injury to a reasonably efficient well that fully penetrates the target aquifer.
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 current POAs likely share an efficient hydraulic connection with the adjacent Deschutes River. The proposed changes to rate shifting and location will likely have a negligible or minimal impact to stream depletion.
- 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: Deschutes River Minimal Significant
- Provide context for minimal/significant impact: See above.
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: Application maps and tables refer to the old Merganser well as DESC 6430. The correct corresponding well report and GWIS sites is DESC 6340. The well report for DESC 1441 is a deepening log that appears to be correlated to the original well log DESC 6099.

Transfer Map



Groundwater Levels from Adjacent Observation Wells

