

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14370

GW Reviewer Joe Kemper Date Review Completed: 7/18/2024

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-14370

Applicant Name: Bend Golf and Country Club

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

Reviewer(s): Joe Kemper

Date of Review: 7/18/2024

Date Reviewed by GW Mgr. and Returned to WRSD: _____

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 _____

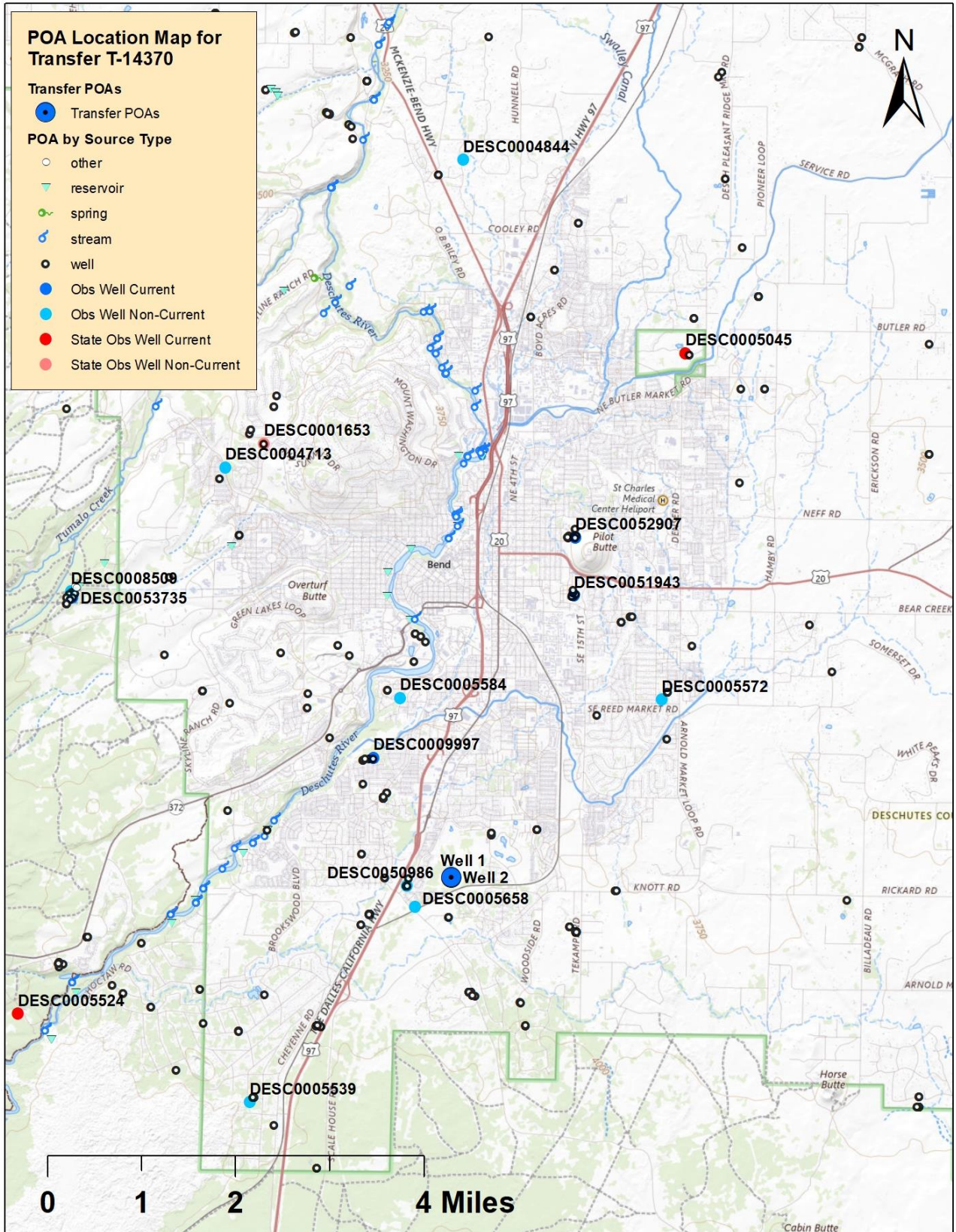
1. Basic description of the changes proposed in this transfer: Certificate 89720 authorizes 112.8 acres of supplemental irrigation with a maximum pumping rate of 1.37 cfs from a single well, DESC 525. This transfer proposes an APOA (DESC 63343) to the current POA.
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: DESC 525 is 377 feet deep and accesses the Deschutes aquifer hosted within lavas from the Cascade Range. DESC 63343 is immediately adjacent to DESC 525 and drilled to a depth of 490 feet. Both have similar water level elevations. Water level data from wells in the area fall range from 3430-3490 feet AMSL, which is commensurate with groundwater contours published by the USGS.
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 applicant's APOA is located ~10 feet from the current valid POA. The change in location of groundwater appropriation is negligible when considering increase in well-to-well interference. The APOA is drilled deeper, allowing the applicant to develop the target aquifer more fully under that water right. A deeper well may allow groundwater pumpage to create a larger cone of depression which could increase the magnitude of acute 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: There are multiple water supply wells located approximately 1/2 mile from the applicant's wells. However, the target aquifer is highly transmissive, laterally extensive, and deeper than any wells in the area. It is unlikely than any increase in well-to-well interference would be large enough to meet the definition of injury.
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 target aquifer discharges to the Deschutes and Crooked Rivers approximately 25 miles to the north. The change in location of APOA is negligible with respect to the distance of the regional flowpaths, so no change in stream depletion is expected.
- 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
 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: _____
7. What conditions or other changes in the application are necessary to address any potential issues identified above: _____
8. Any additional comments: _____

Well Summary Table

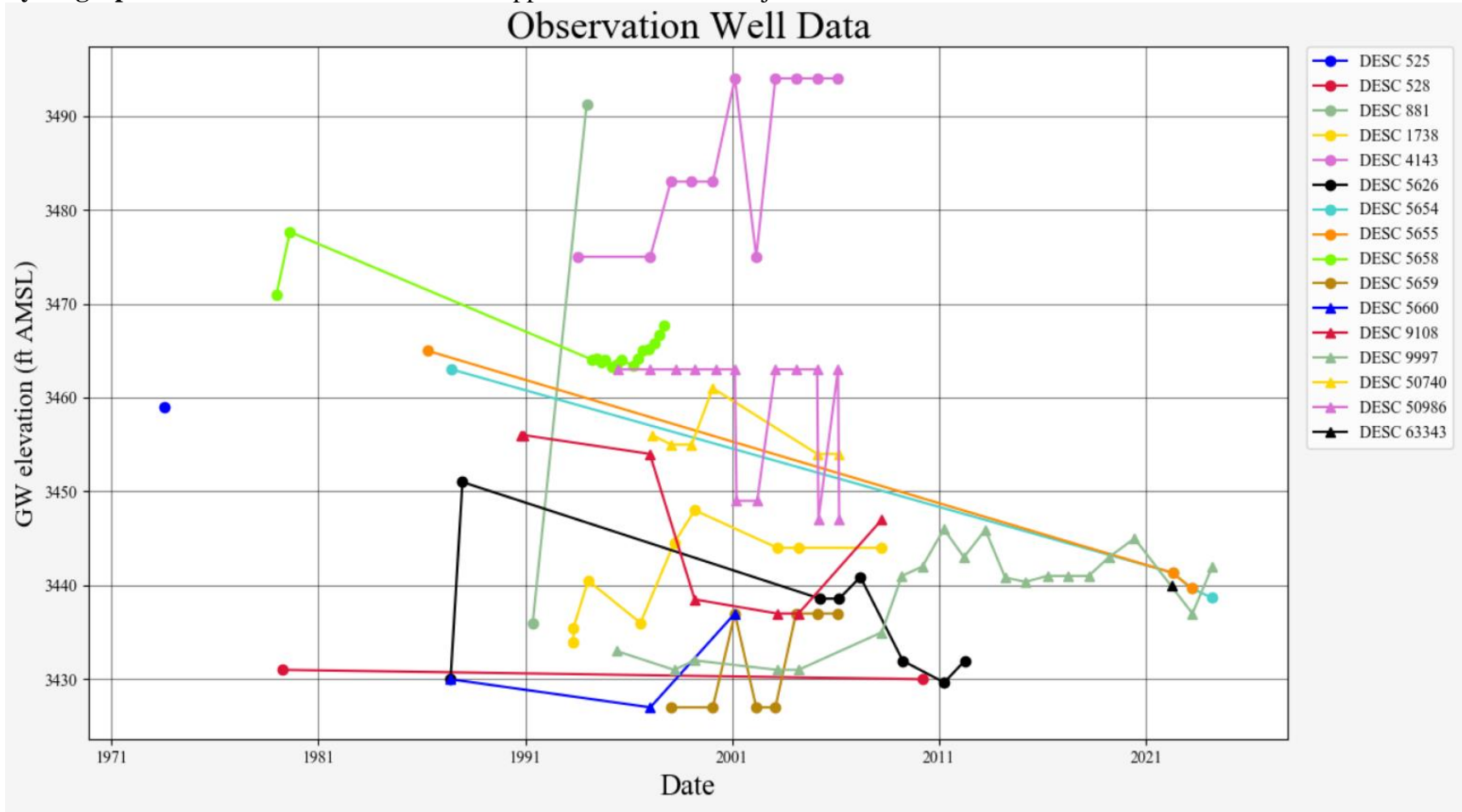
POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location	Permitted Rate (cfs)
1	Well 1	Valid	DESC 525	18S/12E-17 SW-SE	640' N, 430' E of S 1/4 cor S 17	1.37
2	Well 2	Proposed	DESC 63343	18S/12E-17 SW-SE	650' N, 430' E of S 1/4 cor S 17	1.37

Transfer Map



Water Levels in Nearby Observation Wells

Hydrograph 1: Water level elevations of the applicant's wells and adjacent observation wells.



Hydrograph 2: Water level elevations within the Deschutes regional aquifer. The black box shows the relative elevation of the applicant's wells and adjacent observation wells.

