

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14195

GW Reviewer Joe Kemper Date Review Completed: 5/26/2023

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-14195

Applicant Name: Bull Springs Ranch

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

Reviewer(s): Joe Kemper

Date of Review: 5/26/2023

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 8/3/23

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 95715 authorizes 0.4841 cfs of quasi-municipal use from a single well 51145. This transfer proposes moving 0.031 cfs of quasi-municipal use from DESC 51145 to two wells, DESC 54048 and DESC 54049. This transfer also would change the place of use from 17S/11E-35 to 17S/11E-22 and would change the character of use to irrigation, fire suppression, wildlife use, and aesthetics. Note that, if approved, the resulting water right would be used in concert with a reservoir proposed under Application R-89110. Additionally, T-14165 proposes moving 0.453 cfs from Certificate 95715. If T-14165 and T-14195 are approved, there will be no remaining authorized use on Certificate 95715.
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: DESC 51145 (the "from" well) penetrates Quaternary-aged volcanics erupted from the Cascades and then at depth likely encounters the older volcanic units of the Deschutes Formation, a geographically extensive series of interbedded extrusive volcanics and volcanoclastic sediment from the Cascades and alluvial deposits from the ancestral Deschutes River. At depth, DESC 51145 accesses the regional aquifer system largely recharged by precipitation in the Cascades and transmitted via the Deschutes Formation. DESC 54048 and DESC 54049 (the "to" wells) are located 2 to 2.5 miles to NW and are drilled into a nearly identical geologic setting where they penetrate Quaternary-aged extrusive volcanics then access the regional groundwater system hosted within the Deschutes Formation. Water levels in the "to" and "from" wells are at similar elevations between 3400-3500 ft amsl.

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 proposed changes would move a new groundwater use into a different area with existing groundwater users. This may cause well-to-well interference with adjacent wells.
- 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 proposed rate to be transferred (0.031 cfs) in the context of the target aquifer (highly transmissive) would not likely result in well-to-well interference greater than 1 foot. This degree of interference would not cause a reasonably efficient well that fully penetrates the aquifer from receiving its legally entitled water. A more in-depth analysis of an adjacent transfer was conducted for the contested case of T-13583.
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: Water levels in both the existing POA and the proposed POA, as well as several wells in the area, are several hundred feet below land surface and below the incised elevation of any nearby surface water sources. This suggests that the impact to surface water will be at a regional scale where the relatively small change in POA location will have negligible effects on surface water.
- 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: _____
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: _____

Transfer Map



