

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 13984

GW Reviewer Darrick E. Boschmann Date Review Completed: 09/20/2022

## 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-13984

Applicant Name: Andy Root

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

Reviewer(s): Darrick E. Boschmann

Date of Review: 09/20/2022

Date Reviewed by GW Mgr. and Returned to WRSD: jti 2/16/23

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: \_\_\_\_\_

This application is related to certificate 67666 which authorizes groundwater pumping from two wells (POD 1 = HARN 222; POD 2 = HARN 227) for supplemental irrigation of 218.6 acres in the Malheur Lake Basin. The following changes are proposed:

1. Add 10 APOA:

- HARN 52834
- HARN 52827
- HARN 52187
- HARN 52708
- HARN 52767
- HARN 52754
- HARN 52765 \*
- HARN 52805
- HARN 226 (deepening HARN 52783)
- HARN 52789

\* The application lists HARN 52785 as proposed APOA "Well 10". HARN 52785 is a deepening log associated with well HARN 1097 and is located in 25S/30E-35. Based on the location provided in the application materials it is likely that the proposed "Well 10" is intended to be HARN 52765. For the purposes of this review, it is assumed that HARN 52765 is the intended APOA, and that HARN 52785 was listed in error.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?

☒ Yes    ☐ No    Comments: \_\_\_\_\_

Groundwater in the area of the currently authorized wells and proposed APOA occurs in the Younger basin fill and Older basin fill hydrostratigraphic units. Groundwater occurs in multiple hydrostratigraphic units, and groundwater within these units is hydraulically connected, making a single groundwater system composed of multiple hydrostratigraphic units (Gingerich and others, 2022).

In general, groundwater in the Harney Basin flows from several upland recharge areas to a common discharge area near Malheur and Harney Lakes, with some apparent discharge to the Malheur Basin through one or more areas along the eastern margin. While the rocks and sediments making up the aquifer system in the Harney Basin do constitute a single groundwater flow system, sub-watersheds within the basin contribute recharge to different parts of the system depending on groundwater flow-paths from recharge to discharge areas. In general, within these sub-watersheds water within the aquifer system is sourced from a common recharge area and can therefore be considered a single source.

The currently authorized wells and the proposed APOA are all within or just down-gradient of the drainage of Rock Creek and are located along groundwater flow paths flowing southward toward Malheur Lake.

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: \_\_\_\_\_  
Two of the proposed APOA are located ~1.5-2 miles north of the currently authorized wells. There are no existing authorized wells to the north, so no increase in interference is expected as a result of the addition of these two wells. The remaining 8 proposed APOA are located up to ~2 miles to the southwest and south of the currently authorized wells. This will result in an incremental increase in interference with existing authorized wells to the southwest and south.
- 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 increase in interference with existing wells in these locations will not meet the standard for substantial or undue interference given the thickness of the aquifer system in the Harney Basin.
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: \_\_\_\_\_  
There are no perennial surface water sources in the vicinity of the existing or proposed wells.
- 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: \_\_\_\_\_
7. What conditions or other changes in the application are necessary to address any potential issues identified above: none.
8. Any additional comments: \* For the purposes of this review, it is assumed that HARN 52765 is the intended APOA, and that HARN 52785 was listed in error. This will need to be verified by the applicant.

