

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14435

GW Reviewer Dennis Orłowski Date Review Completed: October 31, 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 Water Level Decline Condition Review:

Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

## 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.*



**Oregon Water Resources Department**  
 725 Summer Street NE, Suite A  
 Salem, Oregon 97301-1271  
 (503) 986-0900  
 www.wrd.state.or.us

## Ground Water Review Form:

- Water Right Transfer**
- Permit Amendment**
- GR Modification**
- Other**

Application: T-14435

Applicant Name: Townsend HB, LLC

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

Reviewer(s): Dennis Orlowski            Date of Review: October 31, 2024 (supersedes 7/29/2024 review)

Date Reviewed by GW Mgr. and Returned to WRSD: October 31, 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 \_\_\_\_\_

1. Basic description of the changes proposed in this transfer: This proposed transfer relates to certificate 97491, which authorizes the irrigation of 62.0 acres in western Washington County (near Banks) using groundwater provided by a single authorized POA, WASH 56924. WASH 56924 is 462 feet deep and obtains groundwater from the Columbia River Basalt Group (CRBG) aquifer system.

This transfer proposes the following changes to certificate 97491: (1) add two APOA (wells not yet drilled) (2) modify the existing POU.

**NOTE:** this application was originally reviewed on 7/29/2024 and found to be deficient because it did not include proposed well construction details for the proposed APOA. On October 23, 2024 the applicant’s agent provided this required information via email (attached to this review).

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?  
 Yes     No    Comments: The two proposed APOA wells are planned to be approximately 465 feet deep, and cased and sealed to about 365 feet deep. These planned well construction details indicate that the proposed APOAs will obtain groundwater from the same basalt aquifer system tapped by the authorized POA, WASH 56924 (Gannett and Caldwell, 1998; Woodward and others, 1998).

3. a) Is the existing authorized POA subject to a water level decline condition?  
 Yes    No   Comments: Permit G-15205 implicitly stipulates a required reference level for authorized POA WASH 56924 (i.e., “Use of water from a new well shall not begin until an initial static water level in the well has been measured and submitted to the Department”) (note that certificate 97491 did not retain this same reference level language provided in permit G-15205, but it did include the same permit decline conditions).
- b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded: For the purpose of this review, the initial March measurement for WASH 56924 of 16.20 ft bls, obtained on 3/13/2001, was selected for this evaluation as an interim value. The most recent spring measurement was 7.70 ft bls, measured on 3/29/2024. Consequently, because this most recent measurement is higher than the provisional reference level, applicable permit decline conditions have **not** been exceeded.
- NOTE:** due to the ambiguous permit language related to setting of a reference level, there is some uncertainty about the which of the first few March water level measurements from WASH 56924 should in fact be the proper reference level. That is, the 3/13/2001 measurement was indeed the initial static well level in the well, which would satisfy the permit language; however, that measurement pre-dates the permit date of 9/17/2002, which technically marks the first authorized use of the well (i.e., does it matter if well use pre-dates authorized use?). In this particular case the differences in both time and measurement are relatively minor (i.e., only 1-2 years and a few feet, respectively). However, in many other cases these differences can be much more significant (i.e., on the order of decades and/or tens of feet) with correspondingly greater implications for using reference levels to assess decline condition triggers.
4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  
 Yes    No   Comments: \_\_\_\_\_
- 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.): N/A
5. 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: Relative to the location of authorized POA WASH 56924, the locations for the two proposed APOA are nearer to WASH 50693, by approximately 200 to 400 feet. There are other nearby CRBG wells, but some are much shallower (WASH 7581, WASH 67028) or deeper (WASH 7666), and thus are less likely to be affected by the proposed change.
- 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: WASH 50693 is 640 feet deep, with open borehole from 90-280 and 312-640 ft bls. Recent static water levels in WASH 50693 have ranged from about 20-30 ft bls; therefore, there is approximately 600 feet of available drawdown in WASH 50693, more than enough to account for any additional drawdown caused by the proposed change.

6. 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: With the planned cased and sealed depth of about 365 feet for both proposed APOAs, the water-bearing interflow zone(s) will likely be from many tens to perhaps hundreds of feet below any nearby stream reaches. Consequently, it is unlikely that the proposed change would result in an increase in interference with these streams.
- 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: N/A
7. 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: N/A
8. What conditions or other changes in the application are necessary to address any potential issues identified above: None
9. Any additional comments: None

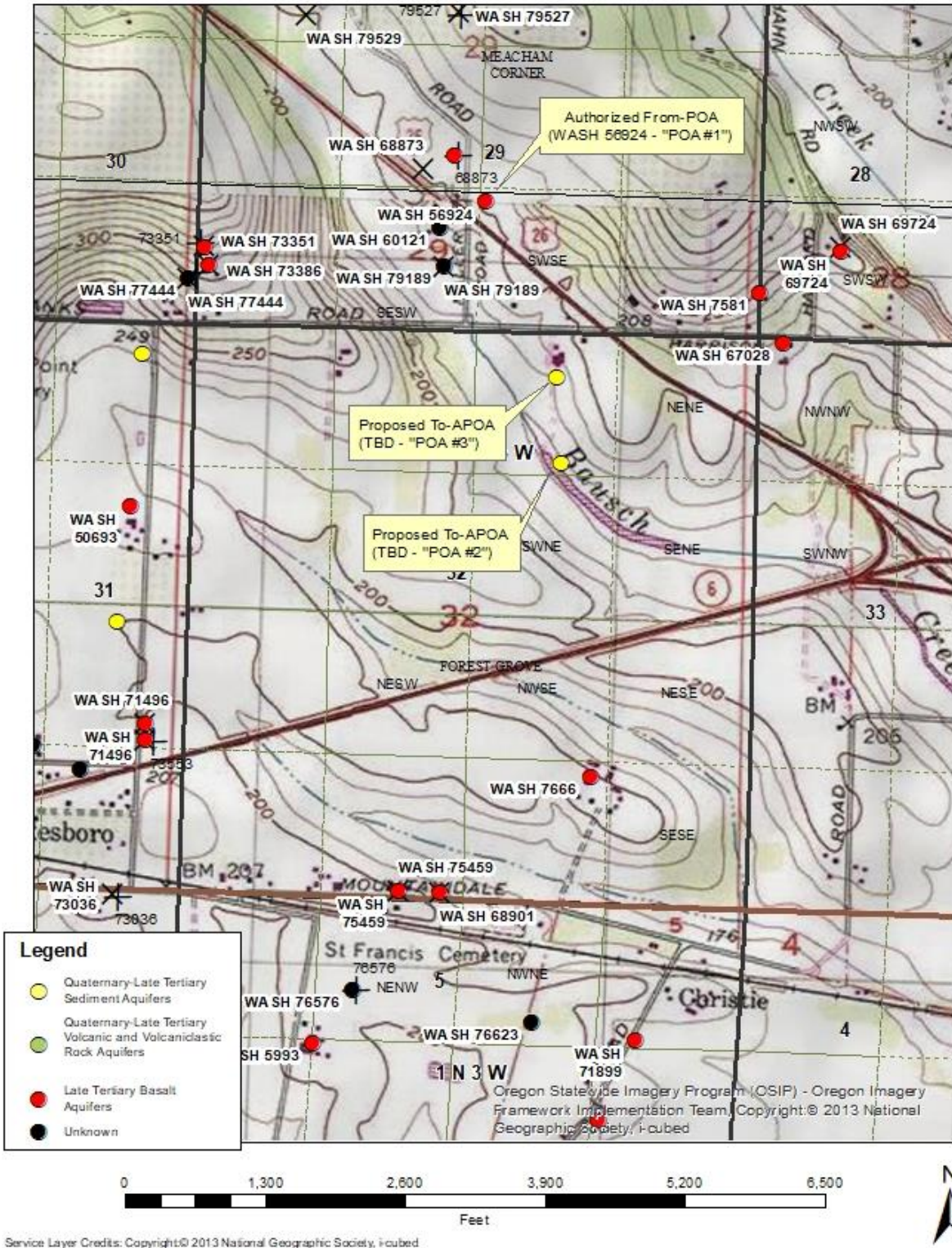
## References

Application T-14435

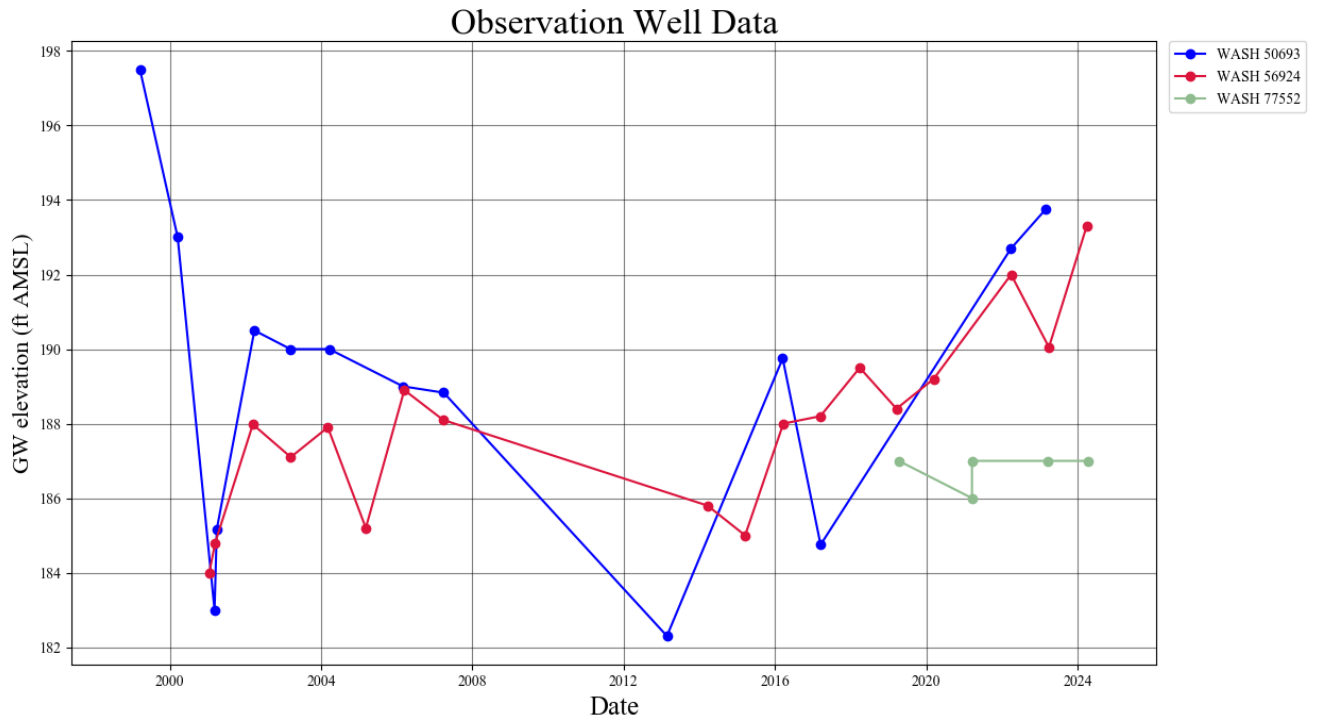
Gannett and Caldwell, 1998, Geologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington, USGS Professional Paper 1424-A

Woodward, Gannett and Vaccaro, 1998, Hydrogeologic Framework of the Willamette Lowland Aquifer System, Oregon and Washington, USGS Professional Paper 1424-B

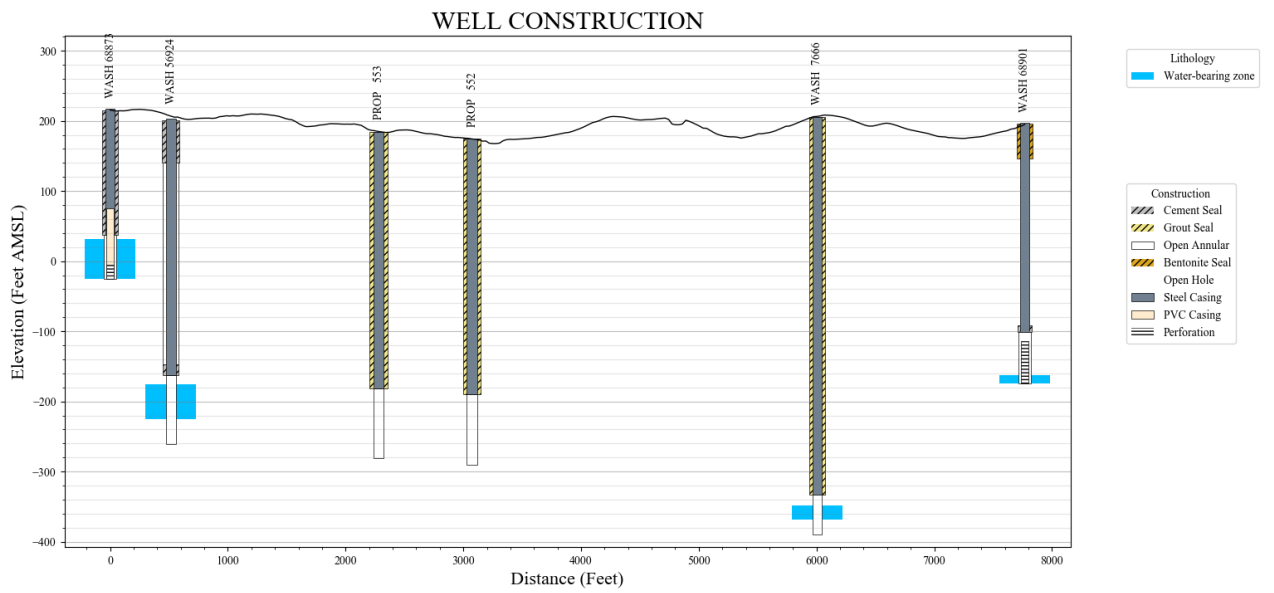
### Application T-14435, Townsend HB, LLC T2N, R3W, Sections 29 and 32



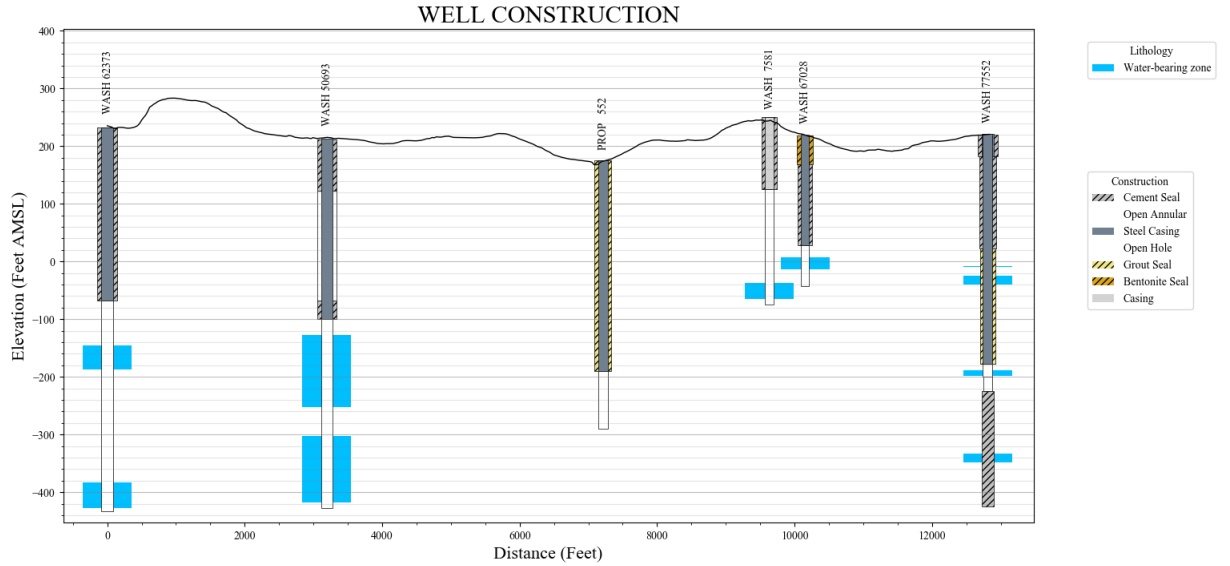
**Hydrograph – area wells**



**North-South cross-section**



West-East cross-section



Email from client’s agent with additional proposed well construction details

From: Eric Urstadt <[ericurstadt@hotmail.com](mailto:ericurstadt@hotmail.com)>  
 Sent: Wednesday, October 23, 2024 11:03 AM  
 To: FRENCH Kim R \* WRD <[Kim.R.FRENCH@water.oregon.gov](mailto:Kim.R.FRENCH@water.oregon.gov)>  
 Cc: ORLOWSKI Dennis R \* WRD ([Dennis.R.Orlowski@oregon.gov](mailto:Dennis.R.Orlowski@oregon.gov)) <[Dennis.R.Orlowski@oregon.gov](mailto:Dennis.R.Orlowski@oregon.gov)>; Joe Tankersley <[joe@townsendfarms.com](mailto:joe@townsendfarms.com)>  
 Subject: Townsend Farms (SangLee)- T-14435 - new well construction details

Kim,  
 Thanks for your patience on this matter.

I have left a message for Dennis Orlowski, but in case he doesn't get that, the specified data is listed below. This data is estimated from the current well which is WASH\_56924.

Total well depth: 465 feet  
 Static Water level: 20 feet  
 Casing Diameter: 8"  
 Aquifer: Columbia River Basalt  
 Seal: The seal should be continuous from the ground level down to above the elevation where the aquifer is accessed or about 365 feet deep

If any other information is required, please let me know.

Also, if we can adjust the proposed well criteria to meet the Groundwater Section criteria so that the well can be approved, please let us know.

Thank You

Eric Urstadt, PE, PLS, CWRE  
**Aspen Rural Land Consulting**  
 39290 NW Murtaugh Road, North Plains, OR 97133  
 (971) 250-1520