

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14545

GW Reviewer Joe Kemper Date Review Completed: 1/9/2026

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.



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Ground Water Review Form:

Water Right Transfer
 Permit Amendment
 GR Modification
 Other

Application: T-14545

Applicant Name: Davenport Newberry Holdings Inc

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

Reviewer(s): Joe Kemper

Date of Review: 1/9/2026

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: Permit G-17316 authorizes 3.56 cfs of industrial use from six wells. Permit G-17031 authorizes 0.89 cfs of industrial use from two wells. This permit amendment seeks to change the place of use, add 14 POAs to G-17316, and add 17 POAs to G-17031. Well specific details are in the table below.
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: The valid POAs do or would produce groundwater hosted in the lavas and tephra deposits on the flanks of Newberry caldera. While this permit amendment would add a significant number of APOAs to the G-17316 and G-17031, the wells would all produce water from the same groundwater source.
3. a) Is the existing authorized POA subject to a water level decline condition?
 Yes No Comments: Permits G-17316 and G-17031 both require the permit-holder to submit a water level measurement plan with a total decline threshold of 25.
- 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: The table below has all reference level and decline designations. There is very little seasonal fluctuation in the target aquifer and the site is often not accessible due to snow. As a result, reference level or recent levels are taken from any time during a given year. At this time, no decline thresholds have been exceeded.

POA #	POA Name	OWRD LOGID	Reference Level (ft bld)	Reference Level Date	Most Recent Water Level	Water Level Date	Decline
1	Well 1	DESC 10060	556.16	9/20/2005	560.9	10/6/2025	4.74
2	Well 2	Not Yet Drilled	NA	NA			NA
3	Well 3	Not Yet Drilled	NA	NA			NA
4	Well 4	Not Yet Drilled	NA	NA			NA
5	Well 5	Not Yet Drilled	NA	NA			NA
		Not Yet Drilled	NA	NA			NA
6	Well 6	DESC 58395	326	7/21/2015	325	7/11/2024	-1
7	Well 46-16	DESC 58649	675	10/21/2014	680	7/1/2024	5

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.): _____

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: The adjacent groundwater users are campground wells located 1-2 miles to the southeast and exempt-use wells located 6-7 miles away at the western base of Newberry Volcano. The change in POA locations would move groundwater production closer to both of those groups of wells and may increase 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: Considering the aquifer's permeability, storage, thickness, and low seasonal variability, it is unlikely that any well-to-well interference would be high enough magnitude to be considered injury.

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: Best available information indicates that the Little Deschutes River is the nearest point at which groundwater discharges to surface water. The valid POAs are 8-10 miles from the Little Deschutes River. Several APOAs are closer to the Little Deschutes River (at a distance of 6-8 miles). Moving groundwater production closer to the Little Deschutes River may hasten the expected stream depletion that results from the allocated 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: Little Deschutes River Minimal Significant
 Stream: _____ Minimal Significant

Provide context for minimal/significant impact: Because groundwater pumpage in this general area is assumed to fully impact surface water, changing the POA locations will not increase the overall impacts to surface water.

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: NA
8. What conditions or other changes in the application are necessary to address any potential issues identified above: _____
9. Any additional comments: _____

References

Gannett, M.W. 1987. Groundwater Availability in the Powell Buttes Area, Central Oregon. Oregon Water Resources Department.

Gannett, M. W. and Lite, K. E., 2004, Simulation of Regional Ground-Water Flow in the Upper Deschutes Basin, Oregon, USGS Water Resources Investigation Report 2003-4195, 84 p., <https://pubs.er.usgs.gov/publication/wri034195>

Gannett, M. W. and Lite, K. E., 2013, Analysis of 1997-2008 Groundwater Level Changes in the Upper Deschutes Basin, Central Oregon, USGS Scientific Investigations Report 2013-5092, 34p., <https://pubs.er.usgs.gov/publication/sir20135092>

Gannett, M. W., Lite Jr, K. E., Morgan, D. S., and Collins, C. A., 2001, Ground-Water Hydrology of the Upper Deschutes Basin, Oregon, USGS Water-Resources Investigations Report 00-4162, 74 p., <https://pubs.usgs.gov/wri/wri004162/pdf/WRIR004162.pdf>

Gannett, M.W., Lite, K.E., Jr., Risley, J.C., Pischel, E.M., and La Marche, J.L., 2017, Simulation of groundwater and surface-water flow in the upper Deschutes Basin, Oregon: U.S. Geological Survey Scientific Investigations Report 2017-5097, 68 p., <https://doi.org/10.3133/sir20175097>.

Groundwater Information System (GWIS). Oregon Water Resources Department.
https://apps.wrd.state.or.us/apps/gw/gw_info/gw_info_report/gw_search.aspx Accessed 12/20/2024

MacLeod, N.S., Sherrod, D.R., Chitwood, L.A., and Jensen, R.A., 1995, Geologic map of Newberry Volcano, Deschutes, Klamath, and Lake Counties, Oregon: U.S. Geological Survey Miscellaneous Investigations Series Map I-2455, 2 sheets, scale 1:62,500, pamphlet, 23 p.

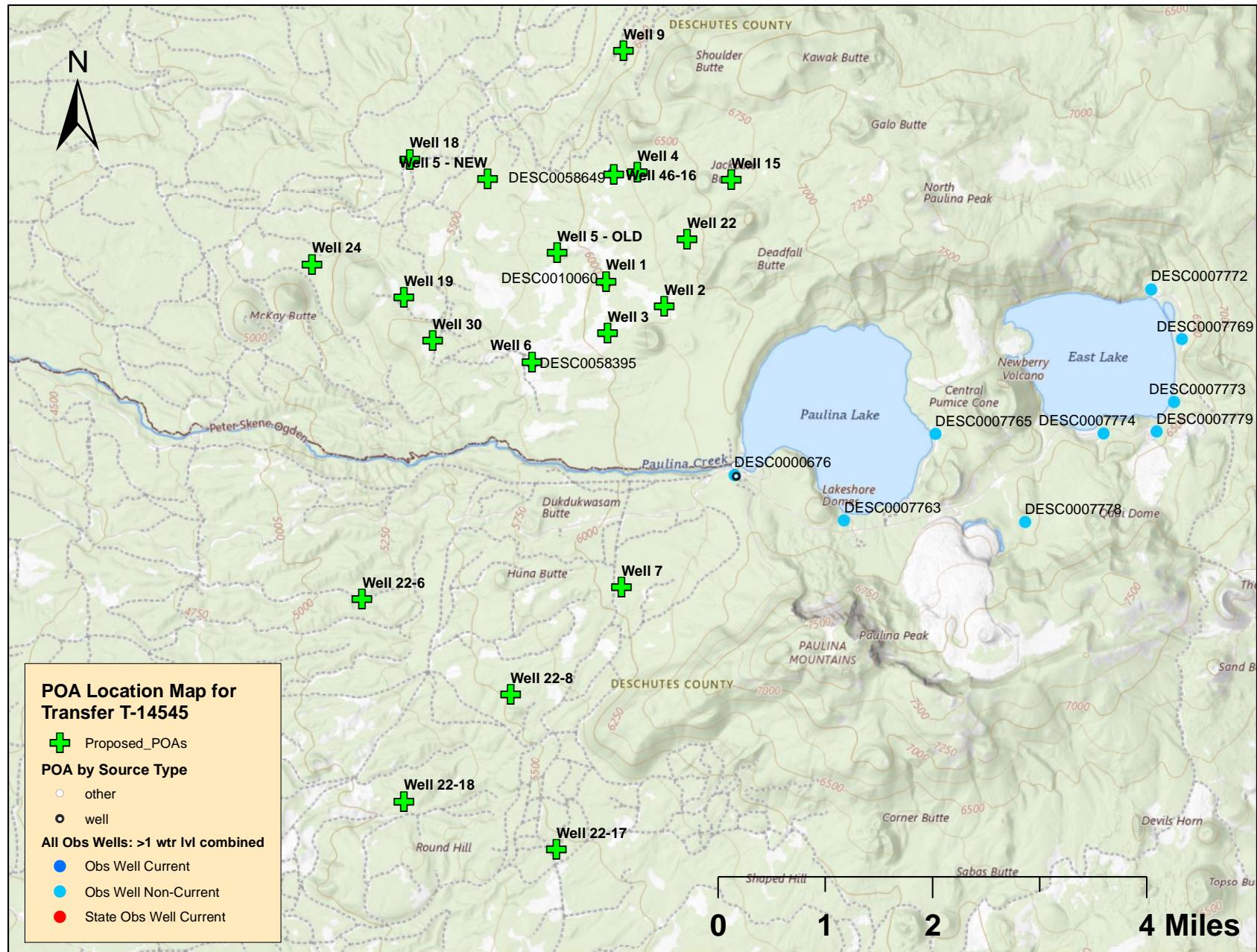
Lite, K. E. and Gannett, M. W., 2002, Geologic Framework of the Regional Ground-Water Flow System in the Upper Deschutes Basin, Oregon. USGS Water-Resources Investigation Report 02-4015, 44 p., <https://pubs.er.usgs.gov/publication/wri024015>

POA Summary Table

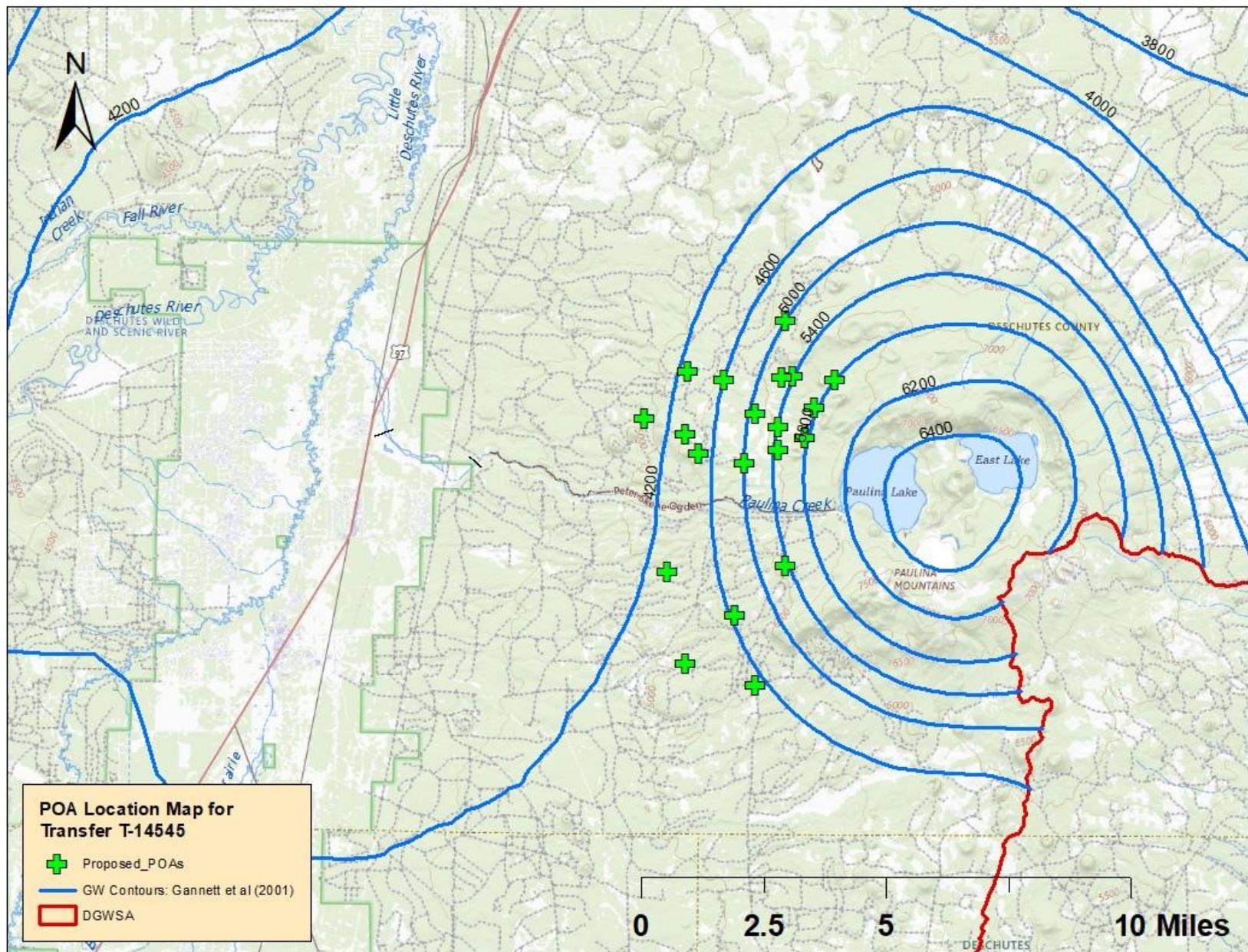
POA #	POA Name	OWRD LOGID	G-17316 POA Status	G-17031 POA Status	TRS	Legal Location
1	Well 1	DESC0010060	Valid	Proposed	21S/12E-21 NE-SW	1895' N, 1795' E fr SW cor S 21
2	Well 2	PROP0000766	Valid	Proposed	21S/12E-21 SE-SE	4620' S, 4620' E fr NW cor S 21
3	Well 3	PROP0000768	Valid	Proposed	21S/12E-28 NE-NW	4620' N, 1980' E fr SW cor S 28
4	Well 4	PROP0000769	Valid	Proposed	21S/12E-16 NW-SE	1980' N, 3300' E fr SW cor S 16
5	Well 5	PROP0000770	Valid	Proposed	21S/12E-20 SE-NE	1980' S, 660' W fr NE cor S 20
			Proposed	Proposed	21S/12E-17 NW-SW	1630' N, 1180' E fr SW cor S 17
6	Well 6	DESC0058395	Valid	Proposed	21S/12E-29 SW-NE	2065' S, 1710' W fr NE cor S 29
7	Well 46-16	DESC0058649	Proposed	Valid	21S/12E-16 NE-SW	1960' N, 2085' E fr SW cor S16
8	Well 7	PROP0000771	Proposed	Valid	22S/12E-4 SE-NW	2640' S, 2640 E fr NW cor S 4
9	Well 9	PROP0000772	Proposed	Proposed	21S/12E-9 SE-NE	2660' S, 2480' E fr NW cor S 9
10	Well 15	PROP0000773	Proposed	Proposed	21S/12E-15 NE-SW	1650' N, 2650' E fr SW cor S 15
11	Well 18	PROP0000774	Proposed	Proposed	21S/12E-18 NE-SW	2635' N, 2260' E fr SW cor S 18
12	Well 19	PROP0000775	Proposed	Proposed	21S/12E-19 SE-SW	1020' N, 2060' E fr SW cor S 19
13	Well 22	PROP0000776	Proposed	Proposed	21S/12E-22 NW-NW	2495' S, 2550' W fr NE cor S 22*
14	Well 22-6	PROP0000778	Proposed	Proposed	22S/12E-6 NW-SW	1970' N, 310' E fr SW cor S 6
15	Well 22-8	PROP0000779	Proposed	Proposed	22S/12E-8 NE-SW	2560' N, 2530' E fr SW cor S 8
16	Well 22-17	PROP0000780	Proposed	Proposed	22S/12E-17 SE-SE	285' N, 450' W fr SE cor S 17
17	Well 22-18	PROP0000781	Proposed	Proposed	22S/12E-18 NE-SW	2520' N, 2600' E fr SW cor S 18
18	Well 24	PROP0000782	Proposed	Proposed	21S/11E-24 SW-NE	2500' S, 2545' W fr NE cor S 24
19	Well 30	PROP0000783	Proposed	Proposed	21S/12E-30 NW-NE	1100' S, 3480' E fr NW cor S 30

*There is a small discrepancy between the TRSqq & mapped location vs the metes and bounds. Because the application map and TRSqq agree, this review assumes that this is the correct location of the APOA.

Transfer Map 1



Transfer Map 2



Water Levels in Adjacent Observation Wells

