# **Groundwater Transfer Review Summary Form**

Transfer/PA # T- <u>14545</u>
GW Reviewer <u>Joe Kemper</u> Date Review Completed: <u>12/27/2024</u>
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 pe 690-380-0100(3).
Summary of GW-SW Transfer Similarity Review:
$\hfill\Box$ 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.

Version: 20210204

# Ground Water Review Form.

WATER RESOURCES DEPARTMENT	725 Su Salem, (503) 9	mwater Resou mmer Street NE Oregon 97301- 86-0900 vrd.state.or.us		☐ Water Rig ☑ Permit An ☐ GR Modif ☐ Other	nendment
Application: T- <u>1</u>	4545		Applica	ant Name: Davenpe	ort Newberry Holdings Inc
Proposed Chang	es: [	⊠ POA □ USE	⊠ APOA ⊠ POU	□ SW→GW □ OTHER	$\square$ RA
Reviewer(s): <u>Jo</u>	oe Kem	-	Date Reviewed		rate of Review: 12/27/2024 Returned to WRSD:
The information transfer may be	-	-	•	officient to evaluate	e whether the proposed
☐ The water water waffected by	-	-	ed with the appl	ication do not corr	espond to the water rights
					ion of the well construction or proposed to be developed.
Other	_				
cfs of indust	trial use d an Al	e from six w	vells. This perm	it amendment seek	t G-17316 authorizes 3.56 as to change the location of the well specific details are
⊠ Yes ☐	☐ No <u>d tephr</u>	Comments a deposits o	s: The valid PO on the flanks of	As do or would pro Newberry caldera.	existing authorized POA?  oduce groundwater hosted in The changes in POA ame general groundwater
∀es       water level       the reference reference level       reference level      reference level      reference level      reference level      reference level      reference level      reference level      reference level      reference level      reference level      ref	☐ No measur e level vel sha	Comement plan plan have be the we	ments: Permit ( with a total dec een submitted t	line threshold of 23 o the Department. nent. The second vo	e condition?  ne permit-holder to submit a  5. Two different versions of The first indicates that the ersion of the plan indicates
whether an a seasonal flu	applica <u>ctuatio</u>	ble permit on the targ	decline condition get aquifer and t	n has been exceede he site is often not	spring-high water level, and ed: There is very little accessible due to snow. As during a given year.

Page 1 of 3 Version: 20210204

POA #	POA Name	OWRD LOGID	Reference Level (ft blsd)	Reference Level Date	Most Recent Water Level	Water Level Date	Decline
1	Well 1 DESC 10060		556.16	9/20/2005	560.13	10/10/2024	3.97
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	325	7/21/2015	326	7/22/2023	1
7	Well 46-16	DESC 58649	675	10/21/2014	679	7/22/2023	4

4.	a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  \[ \sum \text{Yes} \quantarrow \text{No Comments:} \]
	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 <b>another ground water right</b> ?
	Yes No Comments: The closest groundwater users are campground wells located 1-2 miles to the southeast. The change in POA locations would move groundwater production further from those wells and thus would decrease well-to-well interference. There are groundwater users located 7-10 miles to the west, but the change in interference is expected to be negligible at that distance.
	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:
6.	a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with <b>another surface water source</b> ?
	Yes No Comments: The target aquifer may have some limited hydraulic connection with Paulina Creek. The proposed changes in POA location move groundwater production a similar distance to Paulina Creek or further from it. The proposed POA changes would move groundwater production closer to the Little Deschutes River to the west and thus hasten the resulting stream depletion.
	b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any <b>surface water sources</b> resulting from the proposed change?
	Stream: <u>Little Deschutes River</u> Minimal  Significant
	Stream:
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?  \[ \textstyle \text{Yes}  \text{No}  \text{Comments: NA} \]

Page 2 of 3 Version: 20210204

Transfer Application: T- 14545

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., <a href="https://pubs.usgs.gov/wri/wri004162/pdf/WRIR004162.pdf">https://pubs.usgs.gov/wri/wri004162/pdf/WRIR004162.pdf</a>

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.

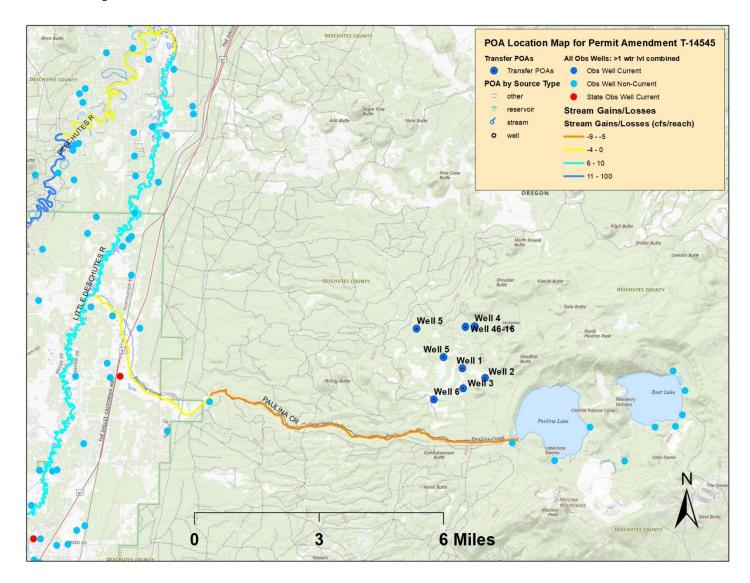
Lite, K. E. and Gannett, M. W., 2002, Geologic Framework of the Regional Ground-Water Flow System in the Upper Deschutes Basin, Oregon. USGS Water-Resources Investigation Report 02-4015, 44 p., https://pubs.er.usgs.gov/publication/wri024015

Page 3 of 3 Version: 20210204

# **Well Summary Table**

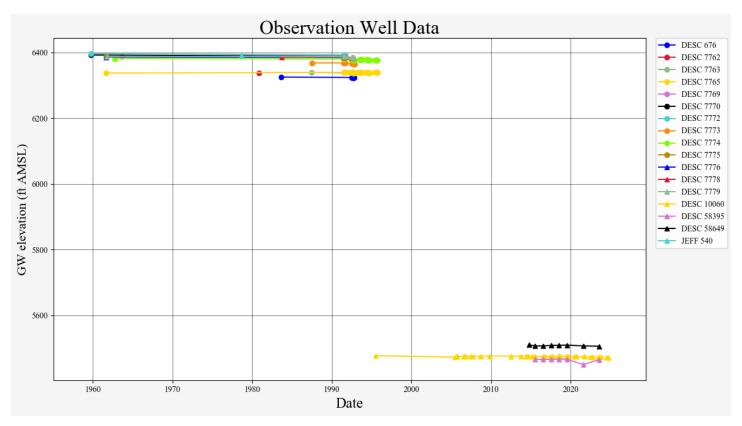
POA #	POA Name	POA Status	OWRD LOGID	TRS	Legal Location	Permitted Rate (cfs)
1	Well 1	Valid	DESC 10060	21S/12E-21 NE-SW	1895' N, 1795' E fr SW cor S 21	3.56
2	Well 2	Valid	Not Yet Drilled	21S/12E-21 SE-SE	4620' S, 4620' E fr NW cor S 21	3.56
3	Well 3	Valid	Not Yet Drilled	21S/12E-28 NE-NW	4620' N, 1980' E fr SW cor S 28	3.56
4	Well 4	Valid	Not Yet Drilled	21S/12E-16 NW-SE	1980' N, 3300' E fr SW cor S 16	3.56
5	Well 5	Valid	Not Yet Drilled	21S/12E-20 SE-NE	1980' S, 660' W fr NE cor S 20	3.56
		Proposed	Not Yet Drilled	21S/12E-17 NW-SW	1630' N, 1180' E fr SW cor S 17	3.56
6	Well 6	Valid	DESC 58395	21S/12E-29 SW-NE	2065' S, 1710' W fr NE cor S 29	3.56
7	Well 46-16	Proposed	DESC 58649	21S/12E-16 NE-SW	1960' N, 2085' E fr SW cor S16	3.56

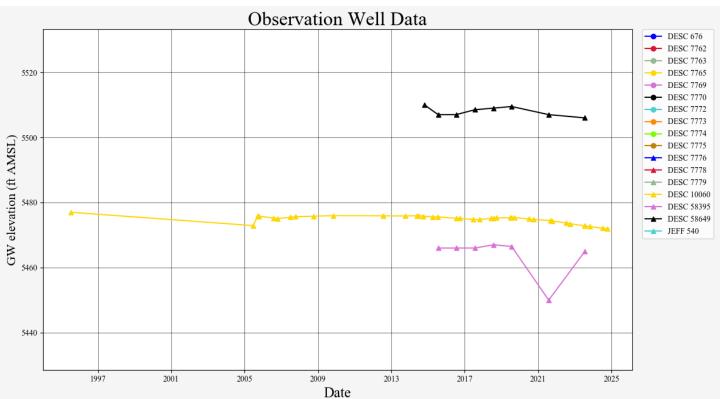
# **Transfer Map**



Page 1 of 1 Version: 20210204

# Water Level Measurements in Adjacent Wells





Page 1 of 1 Version: 20210204