Groundwater Transfer Review Summary Form

Transfer/PA # T- <u>14305</u>
GW Reviewer <u>Stacey Garrison/Travis Brown</u> Date Review Completed: <u>3/4/2024</u>
Summary of Same Source Review:
$\ \square$ 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 pe 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

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OREGON			Ground Water Review Form:			
A-	Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1271 (503) 986-0900 www.wrd.state.or.us		☐ Water Right Transfer☐ Permit Amendment☑ GR Modification			
WATER RESOURCES						
DEPARTMENT						
			\Box Other			
Application: T- <u>14305</u>			Applicant Name: K2A Properties LLC			
Proposed Chang	es: \square POA	\boxtimes APOA	\square SW \rightarrow GW	\square RA		
	\square USE	\square POU	\square OTHER			
Reviewer(s): <u>S</u>	tacey Garrison/Tra	avis Brown	I	Date of Review: 3/4	4/2024	
		Date Reviewed	by GW Mgr. and Re	eturned to WRSD:		
	provided in the apapproved because:	-	ufficient to evaluate	whether the propos	sed	
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: Applicant proposes to add two APOAs: Well 2 (LINN 4219†) and Well 3 (LINN 62889). Applicant also provides corrected location of the authorized POA Well 1 (LINN 4221) and APOA Well 2 (LINN **4219**†). Well 1 (**LINN 4221**) is authorized under **Claim GR-2391** to irrigate 47 ac at 0.9269 cfs (416 gpm) at a maximum annual volume of 141 AF/year*. The transfer application for T-14306 on Claim GR-2392 was submitted simultaneously with application T-14305, and effects all three POAs herein. Claim GR-2392 authorizes irrigation of 39 ac at 0.9269 cfs (416 gpm) and a maximum of 117 AF/year* from Well 2 (LINN 4219†). Well 3 (LINN **62889**) is also authorized under **Permit G-18486** to irrigate 52.32 at 0.25 cfs (112 gpm). The maximum combined rates based on the two transfers and the permit will be used for the three water rights and the three POAs and is summarized in the table below.

†Well 2 (LINN 4219) was abandoned per LINN 63086 abandonment log and associated Special Standards Request Form filed September 26, 2019 and approved by the Department on October 4, 2019.

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Rates and Duties		POA			
		Well 1 (LINN 4221)	Well 2 (LINN 4219)	Well 3 (LINN 62889)	
ac)	This transfer, T-14305/Claim GR-2391	No change, 47 ac	47 ac	47 ac	
POU (ac)	T-14306/Claim GR-2392	39 ac	No change, 39 ac	39 ac	
PC	Permit G-18486	Not authorized	Not authorized	52.32 ac	
	Total	86 ac	86 ac	138.32 ac	
Authorized duty (AF/year)	This transfer, T-14305/Claim GR-2391	No change, 141 AF	141 AF	141 AF	
	T-14306/Claim GR-2392	117 AF	No change, 117 AF	117 AF	
	Permit G-18486	Not authorized	Not authorized	130.8 AF	
	Total	258 AF	258 AF	388.8 AF	
Flow rate CFS (gpm)	This transfer, T-14305	No change, 0.9269 cfs (416 gpm)	0.9269 cfs (416 gpm)	0.9269 cfs (416 gpm)	
	T-14306/Claim GR-2392	0.9269 cfs (416 gpm)	No change, 0.9269 cfs (416 gpm)	0.9269 cfs (416 gpm)	
	Permit G-18486	Not authorized	Not authorized	0.25 cfs (112 gpm)	
	Total	1.854 cfs (832 gpm)	1.854 cfs (832 gpm)	2.104 cfs (944 gpm)	

*The total maximum volume of 141 AF/year included on GR-2391 exceeds the standard maximum duty of 2.5 AF/ac/year for the Willamette Basin, which would be 117.5 AF/year for 47 ac authorized under Claim GR-2391. The maximum volume from GR-2391 is used. The total maximum volume of 117 AF/year included on GR-2392 exceeds the standard maximum duty of 2.5 AF/ac/year for the Willamette Basin, which would be 97.5 AF/year for 39 ac authorized under Claim GR-2392. The maximum volume from GR-2392 is used.

2.	Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
	APOAs Well 2 (LINN 4219) and Well 3 (LINN 62889) all develop the unconfined and
	highly permeable coarse-grained Holocene floodplain deposits associated with the Santiam
	River, with shallow groundwater levels that approximate the stage of adjacent reaches of the
	<u>river.</u>
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.): N/A
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 ?
	(LINN 4221) and the APOAs Well 2 (LINN 4219) and Well 3 (LINN 62889) is LINN
	4168 authorized under Claim GR-1034 at an elevation of 243 ft amsl and located
	approximately 2,000 ft north of Well 1 (LINN 4221), 986 ft north of Well 2 (LINN 4219),
	and 940 ft north of Well 3 (LINN 62889).
	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?

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Well Reports: LINN 4221, LINN 4219, LINN 62889, LINN 4168, LINN 62466, LINN 62681, LINN 60537,

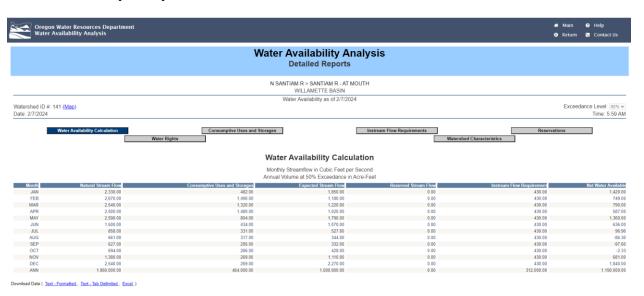
Pumping Test Files: LINN 4221, LINN 4219, LINN 62889, LINN 4168

LINN 59218

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- Transfer Application: T-14305
- Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, *Ground-water hydrology of the Willamette Basin, Oregon*, Scientific Investigations Report 2005–5168: U. S. Geological Survey, Reston, VA.
- Freeze, R.A. and J.A. Cherry, 1979. Groundwater, Prentice Hall, Englewood Cliffs, New Jersey, 604p
- Gannett, M.W. and Caldwell, R., 1998, *Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington*, Professional Paper 1424-A, 32 p. U. S. Geological Survey, Reston, VA.
- Hunt, B., 1999, Unsteady stream depletion from ground water pumping: Ground Water, v. 37, no. 1, p. 98-102.
- Iverson, J., 2002, Investigation of the hydraulic, physical, and chemical buffering capacity of Missoula flood deposits for water quality and supply in the Willamette Valley of Oregon: Unpublished M.S. thesis, Oregon State University, 147 p
- Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using ground-water storage: American Geophysical Union transactions, v. 16, p. 519-524.
- Watershed Sciences, 2009, LIDAR remote sensing data collection, Department of Geology and Mineral Industries, Willamette Valley Phase I, Oregon: Portland, OR, December 21.

Water Availability Analysis



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<u>Map</u>

