

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14791

GW Reviewer Stacey Garrison Date Review Completed: 2/20/2026

## 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-14791

Applicant Name: Cook Landholdings, LLC

- Proposed Changes: POA, APOA, SW to GW, RA, USE, POU, OTHER

Reviewer(s): Stacey Garrison

Date of Review: 2/20/2026

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 3/13/26

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: Applicant proposes to add APOA Well 3 (NLOG 58045) to Claim GR-815. GR-815 authorizes POA 1/Well 1 (NLOG 58044) to irrigate 17.4 ac at 300 gpm and 43.5 AF/year. The APOA Well 3 (NLOG 58045) is also authorized under Claim GR-817 and is a proposed APOA on two other transfers currently under review. The combined rates are shown in the table below; the total rate and duty were used in this review.

Rates and Duties		Well 3 (NLOG 58045)
POU (ac)	This transfer, T-14791/Claim GR 815	17.4 ac
	T-14792/Claim GR 816	27.3 ac
	T-14793/Claim GR 818	34.1 ac
	Claim GR 817	28.7 ac
	Total	107.5 ac
Authorized duty (AF/year)	This transfer, T-14791/Claim GR 815	43.5 AF
	T-14792/Claim GR 816	68.25 AF
	T-14793/Claim GR 818	85.25 AF
	Claim GR 817	71.75 AF
	Total	268.75 AF
Flow rate gpm (CFS)	This transfer, T-14791/Claim GR 815	300 gpm (0.668 cfs)
	T-14792/Claim GR 816	400 gpm (0.891 cfs)
	T-14793/Claim GR 818	500 gpm (1.114 cfs)
	Claim GR 817	350 gpm (0.7798 cfs)
	Total	1,550 gpm (3.45 cfs)

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?  
 Yes    No   Comments: The authorized POA, Well 1 (NLOG 58044), and the proposed APOA, Well 3 (NLOG 58045), develop the unconfined Holocene alluvium.
  
3. a) Is the existing authorized POA subject to a water level decline condition?  
 Yes    No   Comments: \_\_\_\_\_
   
 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: N/A
  
4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  
 Yes    No   Comments: Only the alluvial source is developed.
  
 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: The APOA, Well 3 (NLOG 58045), is closer to LINN 5302, is authorized for irrigation per Claim GR-712 with priority date 2/28/1947. The reduced intervening distance is likely to result in an increase in interference with LINN 5302.
  
 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: The APOA, Well 3 (NLOG 58045), is 2850 ft northeast of LINN 5302. The Theis (1935) solution for drawdown was used to assess the potential for injury to LINN 5302 from the proposed changes (see attached Theis Interference Analysis). Results indicate the proposed change is unlikely to result in LINN 5302 not receiving the water to which it is legally entitled.

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: The APOA, Well 3 (NLOG 58045), is closer to SW 1 (McCarthy Slough). The reduced intervening distance is likely to result in an increase in interference with SW 1 (McCarthy Slough).

- 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: McCarthy Slough  Minimal  Significant

Provide context for minimal/significant impact: The expected increase in depletion from McCarthy Slough was assessed using the Hunt (1999) analytical model for stream depletion due to pumping in an unconfined aquifer (see attached Stream Depletion Analysis). Results indicate that stream depletion due to pumping could likely increase by 3% of the rate of withdrawal after 245 days of continuous pumping as a result of the proposed change. Assuming that the APOA, Well 3 (NLOG 58045), was to pump at the maximum rate of 0.553 cfs (248 gpm)\* over the full 245 days, the proposed change could result in an additional 0.129 cfs (57.9 gpm) of depletions to McCarthy Slough by the end of the irrigation season. McCarthy Slough is within WAB #183 with the lowest month of natural stream flow in August; the Net Water Available in August is 990 cfs. The change in degree of interference with McCarthy Slough by the APOA, Well 3 (NLOG 58045) is anticipated to be minimal.

\*The full pumping rate could not be utilized continuously for the entire 245-day period of use without exceeding the respective maximum allowed duty. For the maximum allowed combined duty of 268.75 AF continuous pumping would occur for 245 days at respective rate of 0.553 cfs (248 gpm).

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: N/A
9. Any additional comments: N/A

### References

Transfer File: T-14756

Pumping Test Files: LANE 8214, LANE 8061, LANE 7502, LANE 64556, LANE 63753, LANE 72693, LANE 58762, LANE 8377, LANE 5676

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.

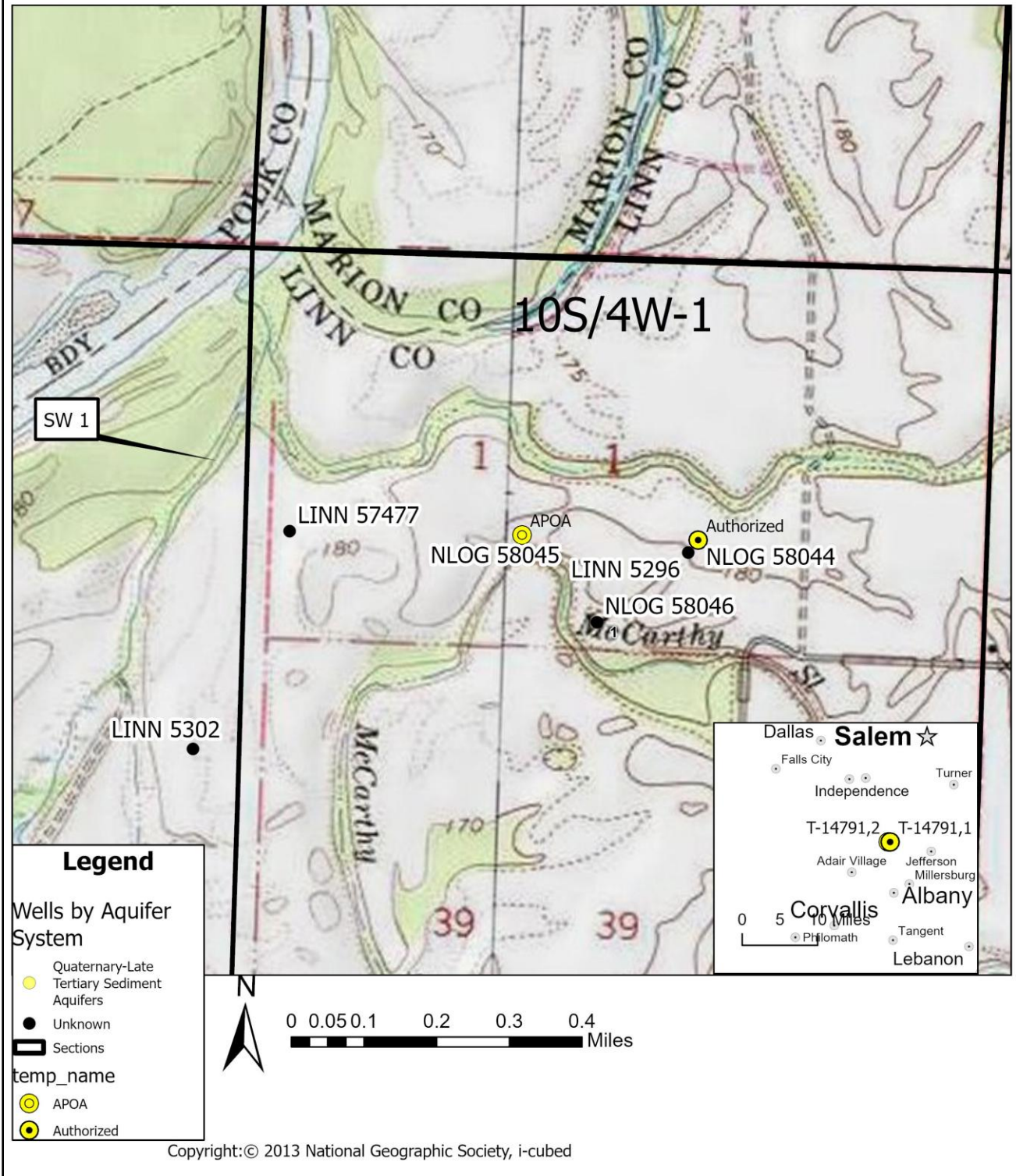
Hunt, B., 1999, Unsteady Stream Depletion from Ground Water Pumping: Ground Water, January-February, Vol 37, p 98-102.

O'Connor, J.E., Sarna-Wojcick, A., Woznikak, K.C., Polette, D.J., Fleck, R.J., 2001, Origin, Extent, and Thickness of Quaternary Geologic Units in the Willamette Valley, Oregon; U.S. Geological Survey, Professional Paper 1620, 51 p.

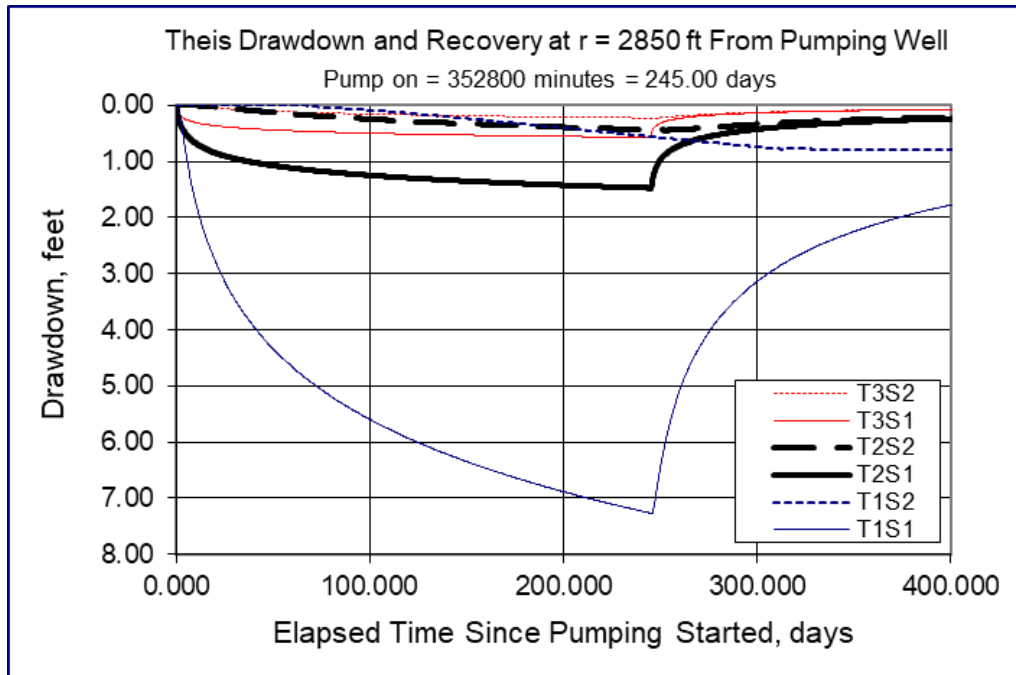
Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

Map

# T-14791 Cook Landholdings, LLC.



Theis Drawdown and Interference-Well 3 (NLOG 58045)-LINN 5302



Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		2850		ft	<b>Q conversions</b>
Pumping rate	Q		0.55304108		cfs	248.20 gpm
Hydraulic conductivity	K	66.7	500	1533.3	ft/day	0.55 cfs
Aquifer thickness	b		30		ft	33.18 cfm
Storativity	S 1		0.003			47,782.75 cfd
	S 2		0.2			1.10 af/d
<b>Transmissivity Conversions</b>	T_f2pd	2001	15000	45999	ft2/day	<input type="button" value="Recalculate"/>
	T_ft2pm	1.38958333	10.4166667	31.94375	ft2/min	
	T_gpdft	14967.48	112200	344072.52	gpd/ft	

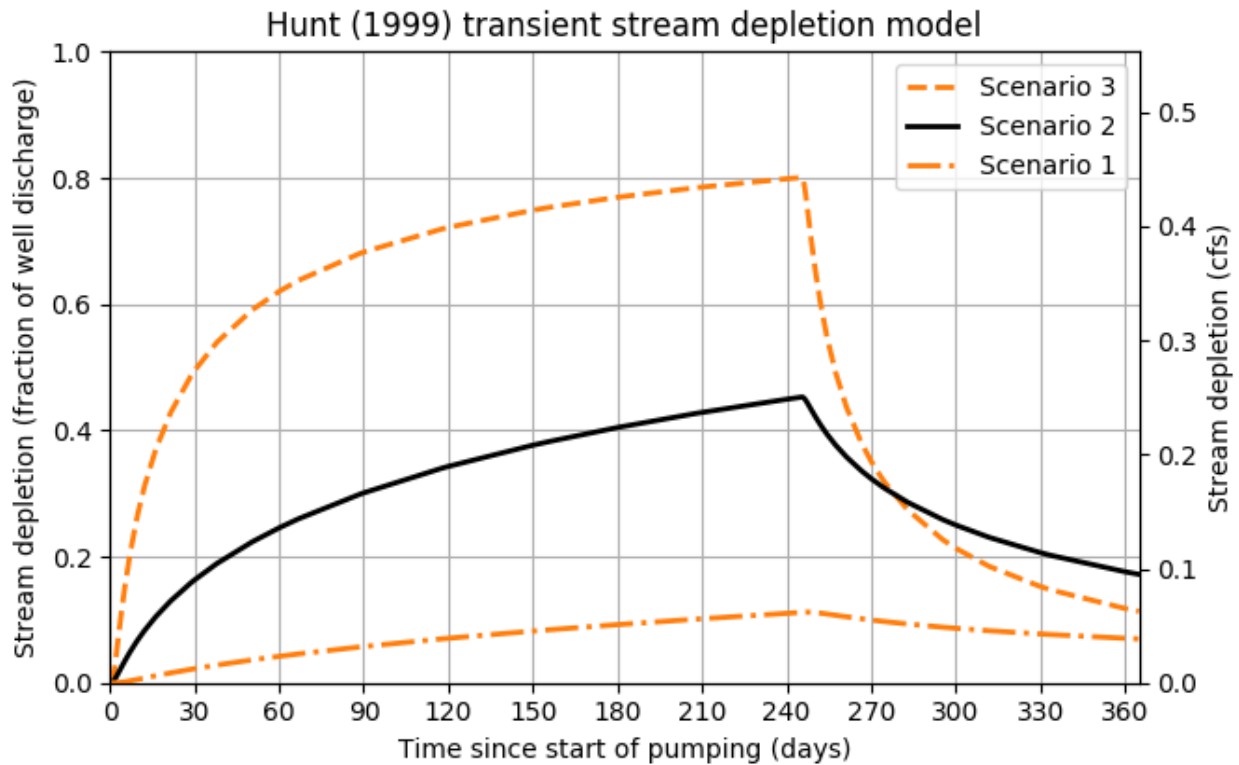
\*The full pumping rate could not be utilized continuously for the entire 245-day period of use without exceeding the maximum combined duty. For the maximum combined duty of 268.75 AF continuous pumping would occur for 245 days at a rate of 0.553 cfs (248 gpm).

SWL	18 ft bls	Woodward et al., 1998
Aquifer Bottom	38 ft bls	Woodward et al., 1998
Available Water Column	20 ft	Aquifer bottom-SWL
Pump Height Above Bottom	5 ft	Estimate
NPSHa	5 ft	Estimate
Drawdown	6 ft	OWRD Well Log Database
Minimum Water Column	16 ft	Estimated Drawdown + NPSHa + Pump Height
Injury	4 ft	Available Water Column-Minimum Water Column

Stream Depletion Analysis: Well 3 (NLOG 58045)-McCarthy Slough

Application type:	T	Parameter	Symbol	Scenario 1	Scenario 2	Scenario 3	Units
Application number:	14791	Distance from well to stream	a	2400	2400	2400	ft
Well number:	2	Aquifer transmissivity	T	46000	15000	2001	ft <sup>2</sup> /day
Stream Number:	1	Aquifer storativity	S	0.2	0.02	0.003	-
Pumping rate (cfs):	0.553041	Aquitard vertical hydraulic conductivity	Kva	0.05	0.05	0.05	ft/day
Pumping duration (days):	245	Not used		10.0	20.0	30.0	
Pumping start month number (3=March)	3.0	Aquitard thickness below stream	babs	3	3	3	ft
Plotting duration (days)	365	Not used		0.2	0.2	0.2	
		Stream width	ws	110	110	110	ft

Days	10	30	60	90	120	150	180	210	240	270	300	330	360
Depletion (%)	7	21	30	34	38	40	43	45	45	43	40	37	35
Depletion (cfs)	0.04	0.11	0.16	0.19	0.21	0.22	0.24	0.25	0.25	0.23	0.20	0.18	0.16



Water Availability Analysis

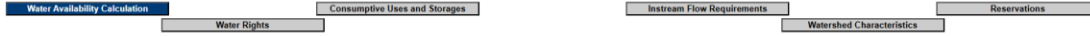
**Water Availability Analysis**  
Detailed Reports

WILLAMETTE R > COLUMBIAR - AB MILL CRAT GAGE 14191000  
WILLAMETTE BASIN

Watershed ID #: 183 [\(Map\)](#)  
Date: 2/20/2026

Water Availability as of 2/20/2026

Exceedance Level: 80%  
Time: 2:46 PM



**Water Availability Calculation**

Monthly Streamflow in Cubic Feet per Second  
Annual Volume at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	18,400.00	2,250.00	16,200.00	0.00	1,300.00	14,900.00
FEB	20,100.00	7,430.00	12,700.00	0.00	1,300.00	11,400.00
MAR	19,600.00	7,220.00	12,400.00	0.00	1,300.00	11,100.00
APR	18,000.00	6,870.00	11,100.00	0.00	1,300.00	9,830.00
MAY	15,500.00	4,100.00	11,300.00	0.00	1,300.00	10,000.00
JUN	8,310.00	1,690.00	6,620.00	0.00	1,300.00	5,320.00
JUL	4,710.00	1,450.00	3,260.00	0.00	1,300.00	1,960.00
AUG	3,620.00	1,330.00	2,290.00	0.00	1,300.00	990.00
SEP	3,680.00	1,150.00	2,530.00	0.00	1,300.00	1,230.00
OCT	4,650.00	747.00	3,900.00	0.00	1,300.00	2,600.00
NOV	9,400.00	855.00	8,540.00	0.00	1,300.00	7,240.00
DEC	16,700.00	918.00	15,800.00	0.00	1,300.00	14,500.00
ANN	13,500,000.00	2,160,000.00	11,300,000.00	0.00	942,000.00	10,400,000.00

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