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August 11, 2025

OWRD

24 Groundwater Transfer Review Summary Form

Transfer/PA # T- 14652

GW Reviewer Byron Ebner Date Review Completed: 8/11/2025

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-14652

Applicant Name: Nesika Beach-Ophir Water District

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

Reviewer(s): Byron Ebner

Date of Review: 6/25/2025

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: Request to add 2 APOAs to Certificate 37549. Authorized POA is CURR 217 and proposed POAs are CURR 51203 (Alteration log CURR 51351) and CURR 51158. Alteration summarized at end of document. Use of CURR 217 is currently being phased out and CURR 51203 & 51158 will be the primary wells used for this right.

Primary Domestic use. Rate = 0.2 CFS (89.766 GPM). Year-long use.

Application was updated with request for additional POA (CURR 51158) on 7/31/2025 and revised maps and well construction information was provided on 8/6/2025.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
 Yes No Comments: The authorized and proposed POA develop the alluvial aquifer, which is hydraulically connected to the Rogue River and tributaries.
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: _____
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: Closest GW POA is likely CURR 239, which could be the POA for Certificate 24373. CURR 239 is perforated in boulders and bedrock from 50 – 74ft and is located off of south bank of the Rogue River. CURR 239 report indicates that yield is 50 GPM with no drawdown from a bailer test. Based on this information, this well may not be able to supply the max rate. Authorized POA is 1387 ft away from CURR 239. Proposed POAs are 1220 & 1230 ft away from CURR 239. Both the Authorized POA and the Proposed POAs are on opposite sides of the Rogue River and would likely interfere with the Rogue River before interfering with CURR 239, as this river would act as a recharge boundary between Certificates 37549 and 24373.

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 **another surface water source**?

Yes No Comments: Authorized POA (CURR 217) is 295 ft from the Rogue River, 440 ft from Rumley Creek, and 326 ft from Willam Creek. Proposed POA (CURR 51203) is 180 ft from the Rogue River, 415 ft from Rumley Creek, and 280 ft from Willam Creek.

- Rogue River: Stream Depletion modelling may not be representative for the Rogue River since the authorized and proposed POAs are closer to the river than the river is wide, therefore the distance between the stream and the well does not meet the specified constraints for the stream to be modeled with zero width (Hunt 1999, 2008). Considering the direct relationship between distance and streamflow depletion established by Jenkins (1968), one can expect there to be less time to depletion dominated flow and full capture using the proposed POAs than the authorized POA, since they are closer to the river. However, since the authorized POA is already 280 ft from the Rogue River and considering the age of the water right along with its continuous use throughout the year, full capture of the stream has likely already occurred, so the impact of this change would be minimal.
- Water is not available (80% exceedance level) in the Rogue > Pacific Ocean-At Mouth reach during July, August, September, and November.
- Rumley Creek: Proposed POAs are moving closer to Rumley Creek but further away from closest upstream POD with no remaining PODs to confluence with Rogue River.
- Willam Creek: Proposed POA is moving closer to Willam Creek but further away from closest upstream POD with no remaining PODs to confluence with Rogue River.

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: Rogue River Minimal Significant
 Stream: Rumley Creek Minimal Significant
 Stream: Willam Creek Minimal Significant

Provide context for minimal/significant impact: Moving the POA closer to the Rogue River may decrease the time to full capture, but the original POA is already very close to the river and full capture may have already occurred due to the age and continuous use associated with this certificate.

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: _____
8. What conditions or other changes in the application are necessary to address any potential issues identified above: _____
9. Any additional comments:
- CURR 51351-Well Alteration summary: surface casing cut 13 ft BLS and 14 ft pitless unit welded and well was resealed. Letter from Jones Drilling Co. on 5/9/06 “As drilling in 16” casing, formation outside of casing sloughed creating a very large hole. Hole was then filled with bentonite (95 sacks) to fill void. When well was finished cement was then used in surface seal and casing removed.
 - CURR 51158 has confusing construction. Water bearing zone has been listed as 35 - 36 ft as Sand & Gravel but is cased the total depth of the well (120 ft) with perforations from 60 – 100 ft into Sand & Gravel & brown clay. No major issues other than inconsistent well construction information since this well develops the Rogue River Alluvial Aquifer.
 - Gold Beach Municipal water system is on South Bank of Rogue River and marked on map as Cert 32530 as well as the POA for Cert 33269. Per the 2024 City of Gold Beach Consumer Confidence Report, the city of Gold Beach pulls water from a shallow groundwater infiltration gallery 5 miles upriver from downtown Gold Beach. I used google maps to identify this facility included birds eye and street view screenshots of it. I believe this facility is tied to Cert 32530.

References:

- Application File
- Hunt, B. (1999). Unsteady Stream Depletion from Ground Water Pumping. *Groundwater*, 37(1), 98–102. <https://doi.org/10.1111/j.1745-6584.1999.tb00962.x>
- Hunt, B. (2008). Stream Depletion for Streams and Aquifers with Finite Widths. *Journal of Hydrologic Engineering*, 13(2), 80–89. [https://doi.org/10.1061/\(ASCE\)1084-0699\(2008\)13:2\(80\)](https://doi.org/10.1061/(ASCE)1084-0699(2008)13:2(80))
- Jenkins, C. T. (1968). Techniques for Computing Rate and Volume of Stream Depletion by Wells. *Groundwater*, 6(2), 37–46.

ROGUE R > PACIFIC OCEAN - AT MOUTH
 ROGUE BASIN

Water Availability as of 7/1/2025

Watershed ID #: 266 (Map)

Date: 7/1/2025

Exceedance Level: 80% ▾

Time: 1:16 PM

Water Availability Calculation

Water Rights

Consumptive Uses and Storages

Instream Flow Requirements

Watershed Characteristics

Reservations

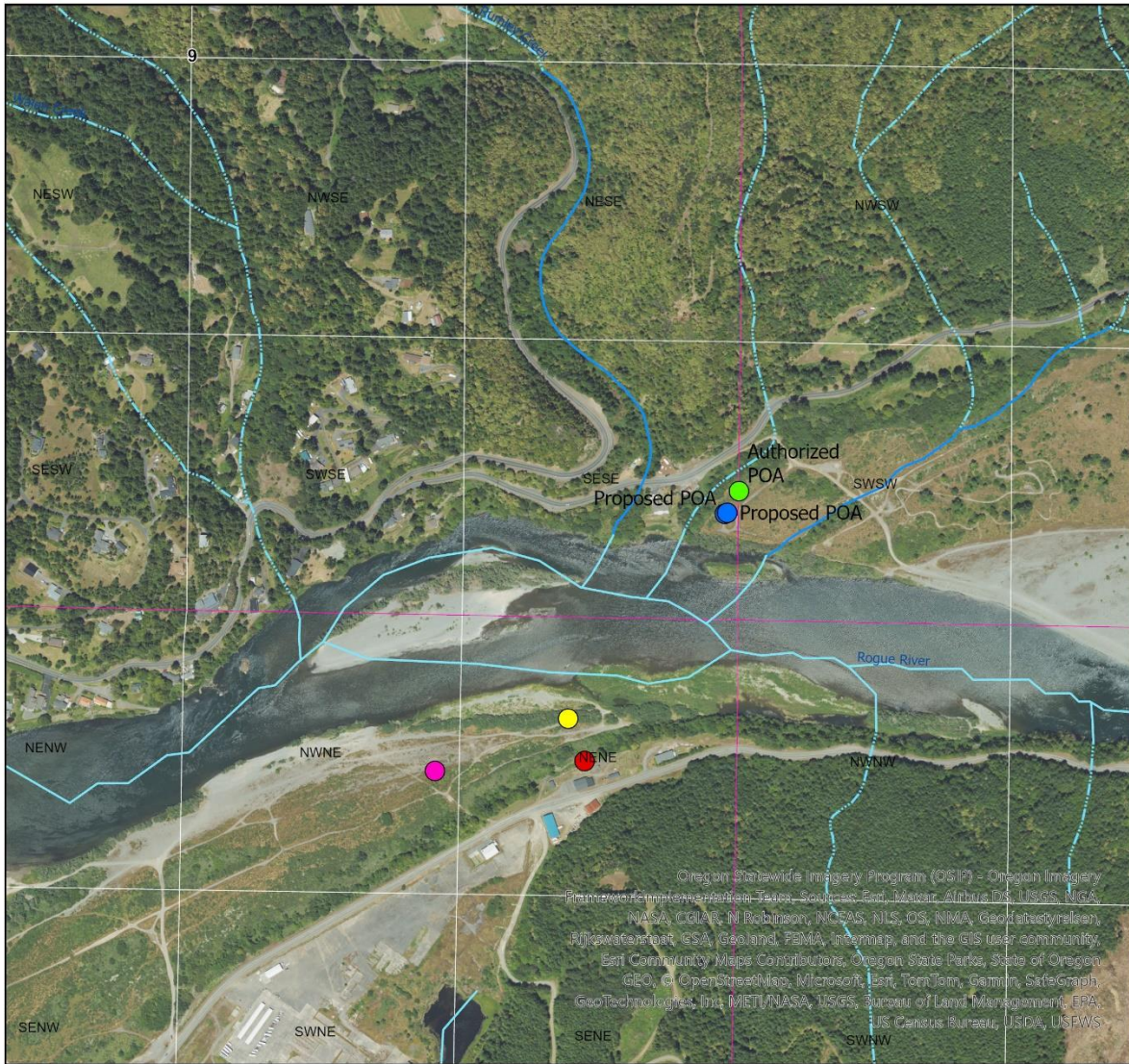
Water Availability Calculation

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	6,870.00	1,100.00	5,770.00	0.00	3,500.00	2,270.00
FEB	10,300.00	2,490.00	7,810.00	0.00	3,500.00	4,310.00
MAR	9,300.00	2,240.00	7,060.00	0.00	3,500.00	3,560.00
APR	7,670.00	1,520.00	6,150.00	0.00	3,500.00	2,650.00
MAY	6,060.00	445.00	5,610.00	0.00	3,000.00	2,610.00
JUN	3,420.00	510.00	2,910.00	0.00	2,700.00	210.00
JUL	2,080.00	571.00	1,510.00	0.00	2,000.00	-491.00
AUG	1,650.00	509.00	1,140.00	0.00	2,400.00	-1,260.00
SEP	1,580.00	412.00	1,170.00	0.00	2,400.00	-1,230.00
OCT	1,920.00	262.00	1,660.00	0.00	1,600.00	68.00
NOV	2,740.00	308.00	2,430.00	0.00	3,500.00	-1,070.00
DEC	5,750.00	573.00	5,180.00	0.00	3,500.00	1,680.00
ANN	5,700,000.00	654,000.00	5,050,000.00	0.00	2,120,000.00	3,050,000.00

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Application T-14652 (T36S-R14W, Section 9)



Legend

● Proposed POAs	NHDFlowline
● Authorized POA	— Stream, perennial
● Cert 32530 POD	— Stream, intermittent
● Cert 33269 POA	— Connector
● Cert 24373 POA	 Townships
	 Sections
	 Quarter quarters

