Groundwater Transfer Review Summary Form

Transfer/PA # T- **14262**

GW Reviewer **Grayson Fish** **Date Review Completed:** **10/27/2023**

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 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

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Ground Water Review Form:

☒ **Water Right Transfer**
☐ **Permit Amendment**
☐ **GR Modification**
☐ **Other**

Application: T-14262 Applicant Name: Roderick Fraser

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

Reviewer(s): Grayson Fish Date of Review: 10/27/2023

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 12/28/23

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 _____

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1. Basic description of the changes proposed in this transfer: The Applicant proposes to add 1 sump as a POA (**POA 3**) for 1.7 acres of cranberry operations under groundwater **Certificate 80526** located on tax lot 105. Existing **POA 1 (COOS 4475) and 2 (COOS 441)** would no longer be used to irrigate the operations located on tax lot 105.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: Both the existing **POA 1** and **2** as well as the proposed sump "**POA 3"** will produce water from shallow coastal terrace deposits (sand and gravels).

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**?

   ☒ Yes ☐ No Comments: The closest POA from the proposed sump "**POA 3"** is associated with groundwater permit **G-9333** at approximately 600 feet. There are 5 additional POAs associated with groundwater permits/certificates **G-16351, 62388, G-16351, 95426,** and **G-9334** are located within approximately a ¼ mile of the proposed POA. The reduction of distance between the proposed POA will likely increase interference with the above mentioned surrounding POAs which also source water from the shallow coastal terrace deposits.

   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: Due to the unconfined nature of the aquifer and low estimated rate, it is unlikely for the proposed POA (**POA 3**) to cause nearby wells/sumps to not receive water to which they are legally entitled to.

5. 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 proposed sump "**POA 3**" is approximately 150 feet from Conner Creek compared to approximately 600 feet from authorized **POA 1** and **2**. The reduced distance of the proposed POA from Conner Creek will likely increase interference.

   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: Conner Creek ☐ Minimal ☒ Significant

   Provide context for minimal/significant impact: Given the reduced distance to Conner Creek, it would be expected that hydraulic stresses caused by pumping at proposed **POA 3** would result in a higher fraction of groundwater pumped from the proposed POA be sourced through streamflow depletion in a shorter amount of time when compared to the already authorized **POA 1** and **2**. Conor Creek is an over-appropriated surface water source, with no or very little water available during the irrigation season (see attached Water Availability Analysis). Additionally, the location of proposed **POA 3** is approximately 0.8 miles upstream on Connor Creek when compared to the authorized **POA 1** and **2,** placing it upstream of senior surface water PODs associated with the following water rights: **Certificates 62385, 75226, 90089, 90090, and Permit S 45777** . Because the proposed change would likely increase interference with a surface water source during a period in which that source is typically over-appropriated and may lead to injury of senior surface water users, the expected change in degree of interference is significant.

6. 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: _____

7. What conditions or other changes in the application are necessary to address any potential issues identified above: _____

8. Any additional comments:_____

References: Beaulieu, J.D., Hughes, P.W., 1975, Environmental geology of western Coos and Douglas Counties, Oregon: Portland, Oreg., Oregon Dept. of Geology and Mineral Industries Bulletin 87, scale 1:62,500.

Water Availability Analysis

Water Availability Analysis
Detailed Reports

DAVIS CR > CROFT L - AT MOUTH
SOUTH COAST BASIN
Water Availability as of 10/27/2023

Watershed ID #: 31730628 (Map)
Date: 10/27/2023

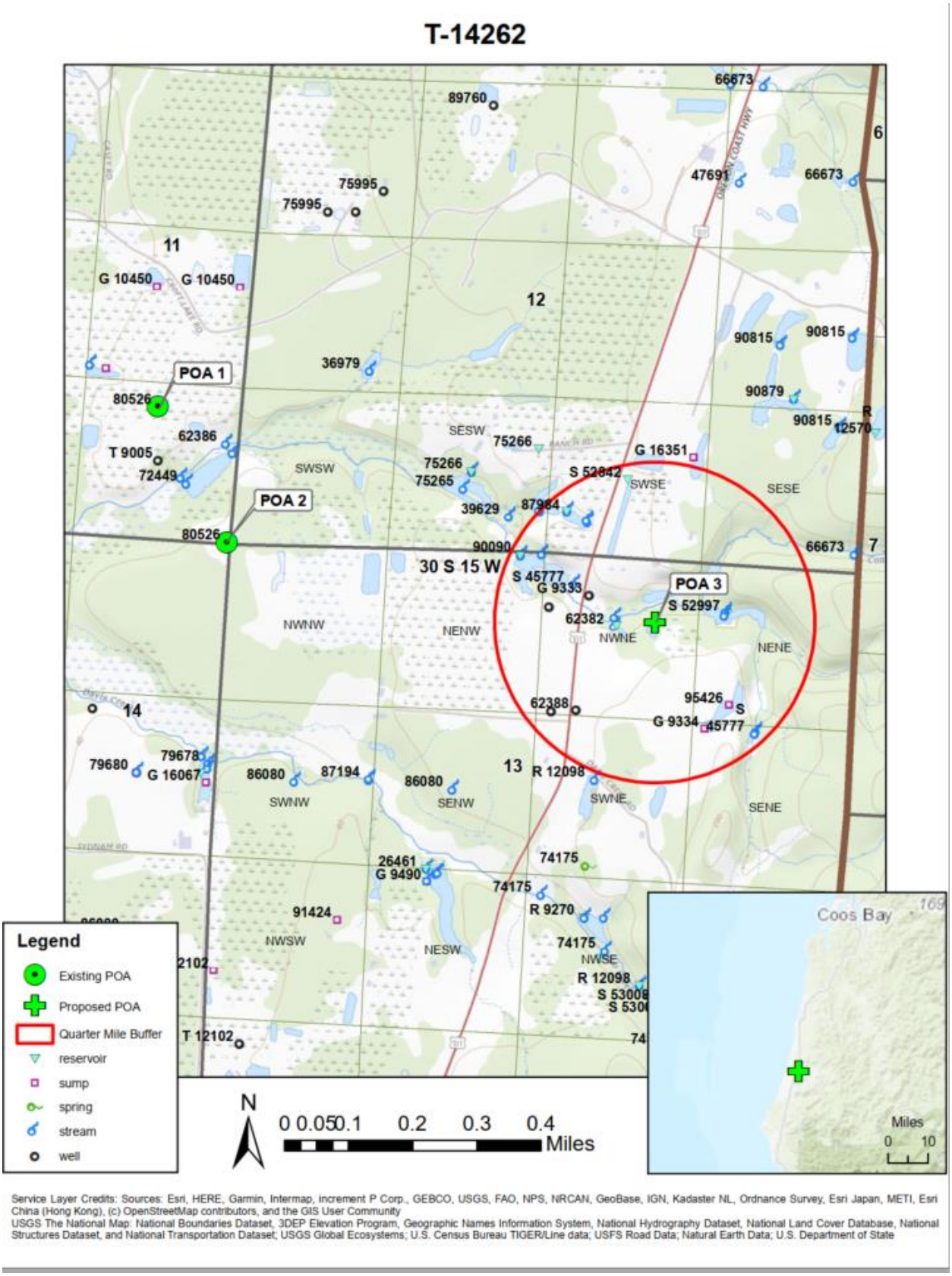
Exceedance Level: 80%
Time: 12:28 PM

Water Availability Calculation | Consumptive Uses and Storages | Instream Flow Requirements | Reservations | Water Rights | Watershed Characteristics

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	4.95	1.96	2.99	0.00	0.00	2.99
FEB	7.77	2.06	5.71	0.00	0.00	5.71
MAR	6.76	1.70	5.06	0.00	0.00	5.06
APR	3.93	1.59	2.34	0.00	0.00	2.34
MAY	1.54	1.24	0.30	0.00	0.00	0.30
JUN	0.86	0.84	0.03	0.00	0.00	0.03
JUL	0.73	1.24	-0.51	0.00	0.00	-0.51
AUG	0.62	1.02	-0.40	0.00	0.00	-0.40
SEP	0.49	0.48	0.01	0.00	0.00	0.01
OCT	0.42	0.79	-0.37	0.00	0.00	-0.37
NOV	1.62	1.64	-0.02	0.00	0.00	-0.02
DEC	4.42	1.96	2.46	0.00	0.00	2.46
ANN	4,830.00	994.00	3,830.00	0.00	0.00	3,830.00


T-14262
POA 1
POA 2
POA 3
30 S 15 W
Legend
Existing POA
Proposed POA
Quarter Mile Buffer
reservoir
sump
spring
stream
well
N
0 0.05 0.1 0.2 0.3 0.4
Miles
Coos Bay
Miles
0 10
Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State