Groundwater Transfer Review Summary Form

Transfer/PA # T-_13913_

GW Reviewer _James Hootsmans/Josh Hackett_ Date Review Completed: _5/9/2023_

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-13913 Applicant Name: City of Mosier

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

Reviewer(s): J. Hootsmans/J. Hackett Date of Review: 5/9/2023

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 6/3/25

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: Certificate 91731 authorizes municipal use from two Points of Appropriation (POAs) (1. Mosier Well #3 (WASC 2765) and 2. Mosier Well #4 (WASC 51497)). This transfer application proposes changing one authorized POA from Mosier Well #3 (WASC 2765) to Proposed Well #5. Mosier Well #3 was abandoned in 2013 (abandonment log WASC 52071). The authorized and proposed Points of Appropriation (POAs) associated with this water right are displayed in Table 1.

Table 1:

Certificate	Authorized POAs/PODs	Proposed POAs/PODs
91731	WASC 51497 (Well 4) WASC 2765 (Well 3)	WASC 51497 (Well 4, No change) Proposed Well 5 (PROP 321)

 Version: 20210204

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: The area surrounding the applicant's property is underlain by lava flows of the Columbia River Basalt Group (CRBG). Locally, the CRBG is composed of dozens of individual basalt flows and has a composite thickness of several thousand feet. Although unconfined ground water occurs near the surface of the basalts, most water occurs in confined aquifers that occupy thin rubble zones (interflow zones) at the contacts between lava flows. The interiors of the basalt flows generally have low porosity and permeability and act as confining beds. This geometry generally produces a stack of thin aquifers (interflow zones) separated by thick confining beds (flow interiors).

   Authorized POA Well #4 (WASC 51497) is completed to a depth of 498 feet below ground surface (bgs) and cased and sealed to 285 feet bgs. Authorized POA Mosier Well #3 (WASC 2765), was completed to a depth of 404 feet bgs and cased and sealed to 275 feet bgs before being abandoned in 2013.

   Proposed POA Well #5 will be drilled to a depth of approximately 468 feet bgs and will be cased and sealed to 268 feet bgs. The proposed construction for Well #5 is similar to Well #3 and will develop the same source as the authorized POAs.

3. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?
☐ Yes ☒ No Both the authorized and proposed POA are/will be sealed into the Selah interbed and will develop from a water-bearing zone in the Priest Rapids Member of the Wanapum Formation of the CRBG aquifer system.

   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.): _____

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 proposed POA will not be located closer to existing groundwater users, so interference with another water right is not likely to increase. The proposed POA will be much closer to authorized POA Mosier Well #4 (approximately 150 ft), so an increase in interference between POAs on this water right is possible. However, each POA is authorized to pump at near the combined certificated maximum rate of 0.67 cubic feet per second (cfs) and the potential yield of each POA is likely to be much higher than the maximum certificated rate, so it is unlikely the POAs will be used concurrently. This will reduce potential well-to-well interference.

   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: _____

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: Despite the POAs proximity to Mosier Creek, the wells are cased and sealed well below the elevation of the creek, so interference is unlikely to increase.

   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: _____ ☐ Minimal ☐ Significant

Stream: _____ ☐ Minimal ☐ Significant

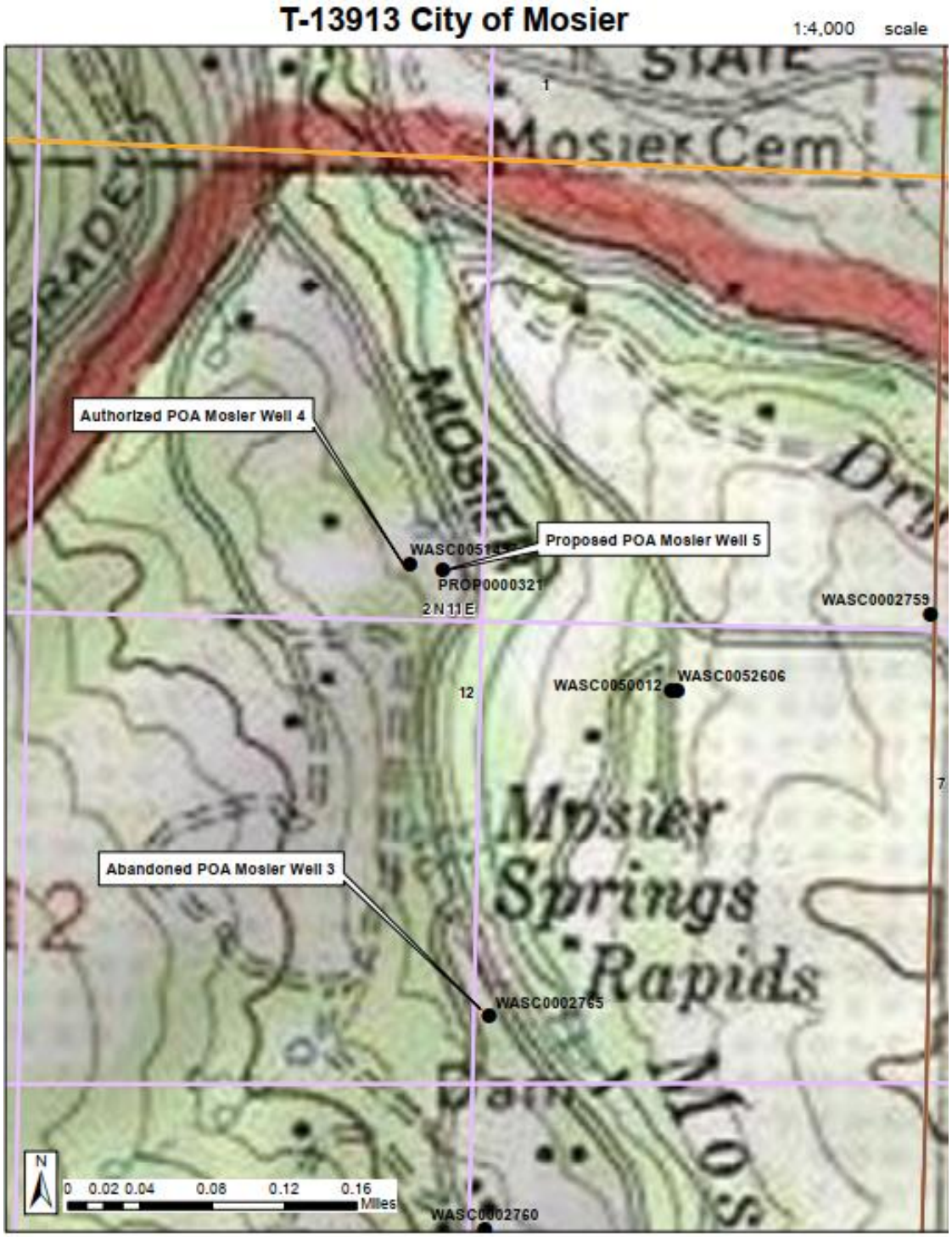
Provide context for minimal/significant impact: _____

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: N/A

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

8. Any additional comments: N/A


T-13913 City of Mosier
1:4,000 scale
Mosier Cem
Authorized POA Mosier Well 4
WASC0051
Proposed POA Mosier Well 5
PROP0000321
2N 11E
WASC0002759
WASC0050012
WASC0052606
12
Mosier
Springs
Rapids
Abandoned POA Mosier Well 3
WASC0002765
WASC0002760
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