Groundwater Transfer Review Summary Form

Transfer/PA # T- _13697_

GW Reviewer _Phillip Marcy_ Date Review Completed: _08/24/2021_

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.

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Ground Water Review Form:

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

Application: T-13697 Applicant Name: Case Family LLC

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

Reviewer(s): Phillip I. Marcy Date of Review: 08/24/2021

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 9/20/21

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 move a portion of GR 1543 to Case Family property for use from four POA wells, LINN 4614, LINN 4613, LINN 4619, and LINN 4615, in lieu of currently authorized POA LINN 4814.

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
   ☒ Yes ☐ No Comments: All wells listed produce from shallow alluvium.

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.): NA

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: Proposed POA LINN 4614 is 115 feet from LINN 4606, which is authorized under groundwater claim GR-919. The distribution of pumping between the four wells that would result from approval of this transfer is unknown.

   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: Given the fairly low authorized rate for GR-1543 (0.1114 CFS) added to proposed use resulting from T-13693 (GR-2289 - 0.4456 CFS) and the combination of high transmissivity and high storativity of the unconfined alluvial aquifer, anticipated drawdown assuming all pumping under these rights occurs at LINN 4614 is minimal at LINN 4606, with a range of scenarios producing less than 3.5 feet of likely drawdown.

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 POA locations do not move the bulk of pumping significantly closer to any surface water source. Though the proposed POA locations are between 1-2 miles away from the currently authorized POA, they are located within the same WAB and are expected to affect any seasonal surface water similarly.

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: NA ☐ Minimal ☐ Significant

Stream: NA ☐ Minimal ☐ Significant

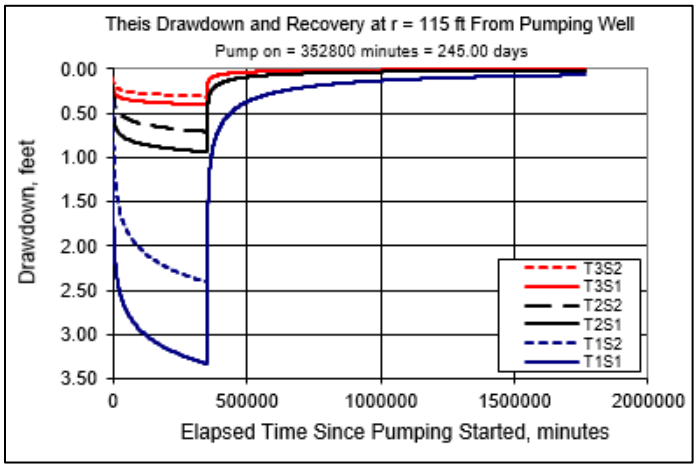
Provide context for minimal/significant impact: There are no perennial surface water sources nearby to either the authorized POA or proposed POA wells.

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?

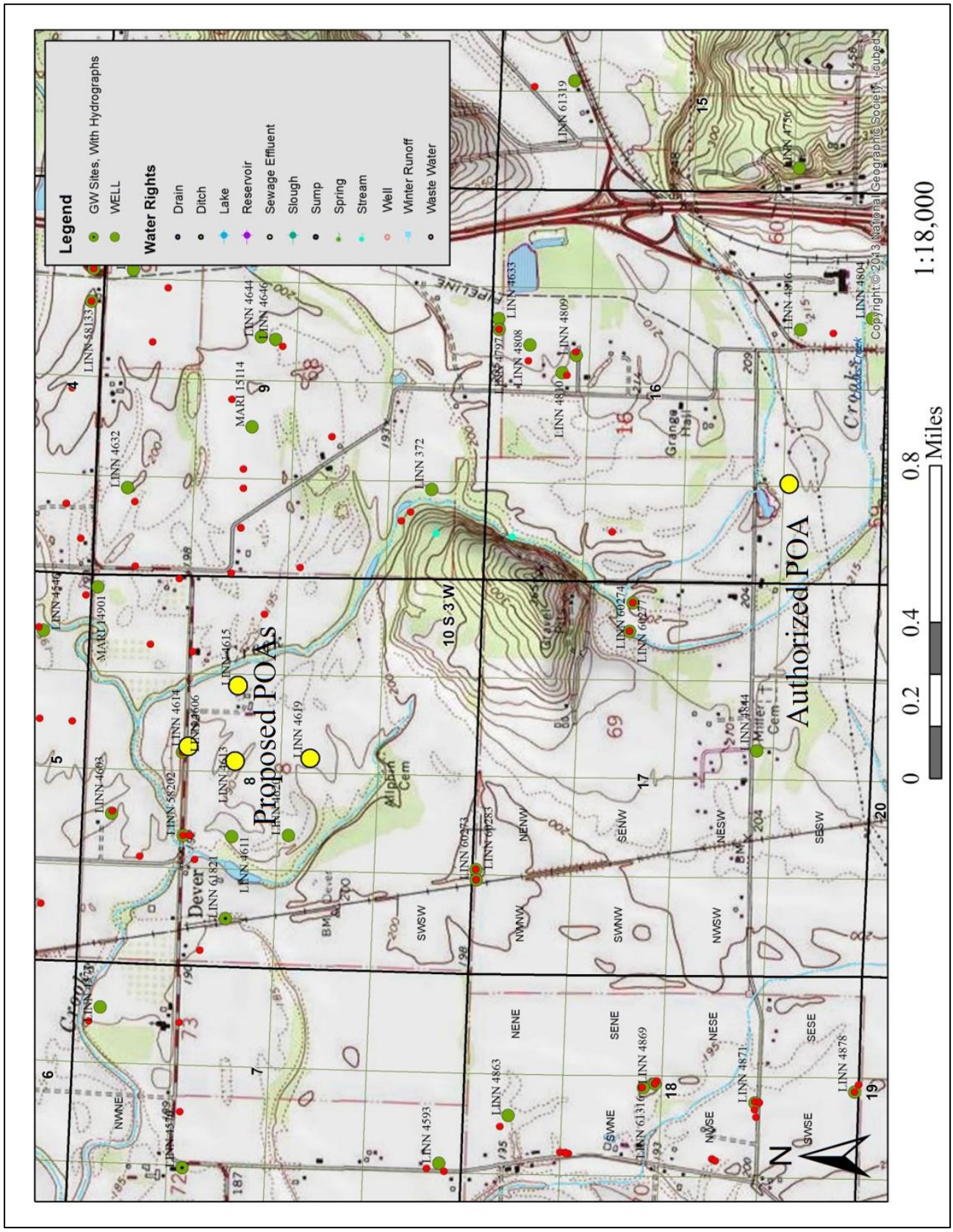
☐ Yes ☐ No Comments: NA

7. What conditions or other changes in the application are necessary to address any potential issues identified above: None

8. Any additional comments:_____



Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		115		ft	Q conversions
Pumping rate	Q		0.557		cfs	249.98 gpm
Hydraulic conductivity	K	50	200	500	ft/day	0.56 cfs
Aquifer thickness	b		250		ft	33.42 cfm
Storativity	S_1		0.01			48,124.80 cfd
	S_2		0.2			1.10 af/d
Transmissivity Conversions	T_f2pd	12500	50000	125000	ft2/day	
	T_ft2pm	8.680556	34.72222	86.80556	ft2/min	Recalculate
	T_gpdpft	93500	374000	935000	gpd/ft	


Legend
GW Sites, With Hydrographs
WELL
Water Rights
Drain
Ditch
Lake
Reservoir
Sewage Effluent
Slough
Sump
Spring
Stream
Well
Winter Runoff
Waste Water
Proposed POAs
Authorized POA
10 S 3 W
Dever
Albin Cem
Miller Cem
Grange Hall
Crooks Creek
0 0.2 0.4 0.8 Miles
1:18,000
N
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