

Groundwater Transfer Review Summary Form

Transfer/PA # T- 14780

GW Reviewer Byron Ebner Date Review Completed: 1/15/2026

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-14780

Applicant Name: Kitteredge Properties LLC

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

Reviewer(s): Byron Ebner

Date of Review: 1/15/2026

Date Reviewed by Basin Hydrogeologist and Returned to WRSD: 1/16/2026

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: **Certificate 53854: Transferring 125 acres from outer rim of one large pivot in T26S R15E Sections 16 and 17 to redevelop another pivot in T26S R15E Section 8. Adding APOA.**

Authorized POA: LAKE 4384 in T26S R15E Section 17

Proposed APOA: LAKE 388 in T26S R15E Section 8 (1.4 Miles NW of authorized POA)

2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?
☒ Yes ☐ No Comments: Groundwater in the Fort Rock/Christmas Valley area, also referred to as the Fort Rock Classified Area, is viewed as a single flow system. Groundwater is found in both the overlying basin fill sediment as well as the underlying unit, which is predominantly volcanic rock, and occurs in "confined, unconfined and perched conditions that reflect local variations in permeability of overlying rocks" (Miller, 1984). Miller (1984) also notes that groundwater in the Fort Rock Basin consists of "numerous water producing zones in several formations" that generally have common potentiometric level and are very transmissive. These units are all capable of yielding groundwater and are viewed as hydraulically connected to one another.

Both the authorized POA and proposed APOA are cased and sealed in the basin fill and are completed in the underlying volcanic rock.

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: One source 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.): _____
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: Proposed APOA is moving closer to LAKE 389, which is a POA for Certificate No. 53860. This reduced distance for the APOA will result in an increase in interference compared to pumping at the original, authorized POA.
- 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: Authorized POA (LAKE 4384) is 6580 ft away from LAKE 389 and the proposed APOA (LAKE 388) is 5870 ft from LAKE 389. Potential increase in drawdown was calculated using the Theis equation (attached below) for the projected pumping from the authorized POA, proposed APOA and the affected well using an intermediate storage coefficient of 0.001 and transmissivity of 15,000 ft²/day (McFarland and Ryals, 1991). Maximum drawdown is estimated to be 3.82 ft from the authorized POA, 3.93 ft from the proposed APOA, and 8.69 ft from the affected well which would total of 16.44 ft of drawdown in the affected well, which would not meet the standard of "substantial or undue interference".
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: Proposed APOA is moving further away from perennial surface water sources in the area such as Paulina Marsh and Silver Lake.
- 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: _____
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: The proposed POU is a pivot that reported as “not in use”, but satellite imagery from 7/22/2023 suggests that this pivot was being watered in 2023. Imagery from 5/14/2020 shows an unused pivot. Based on this, water was applied to the proposed POU between 5/14/2020 and 7/22/2023. Additionally, estimated acreage of proposed POU change is approximately 7 acres larger than requested (132 acres compared to 125 acres).



References

Application T-14780 file

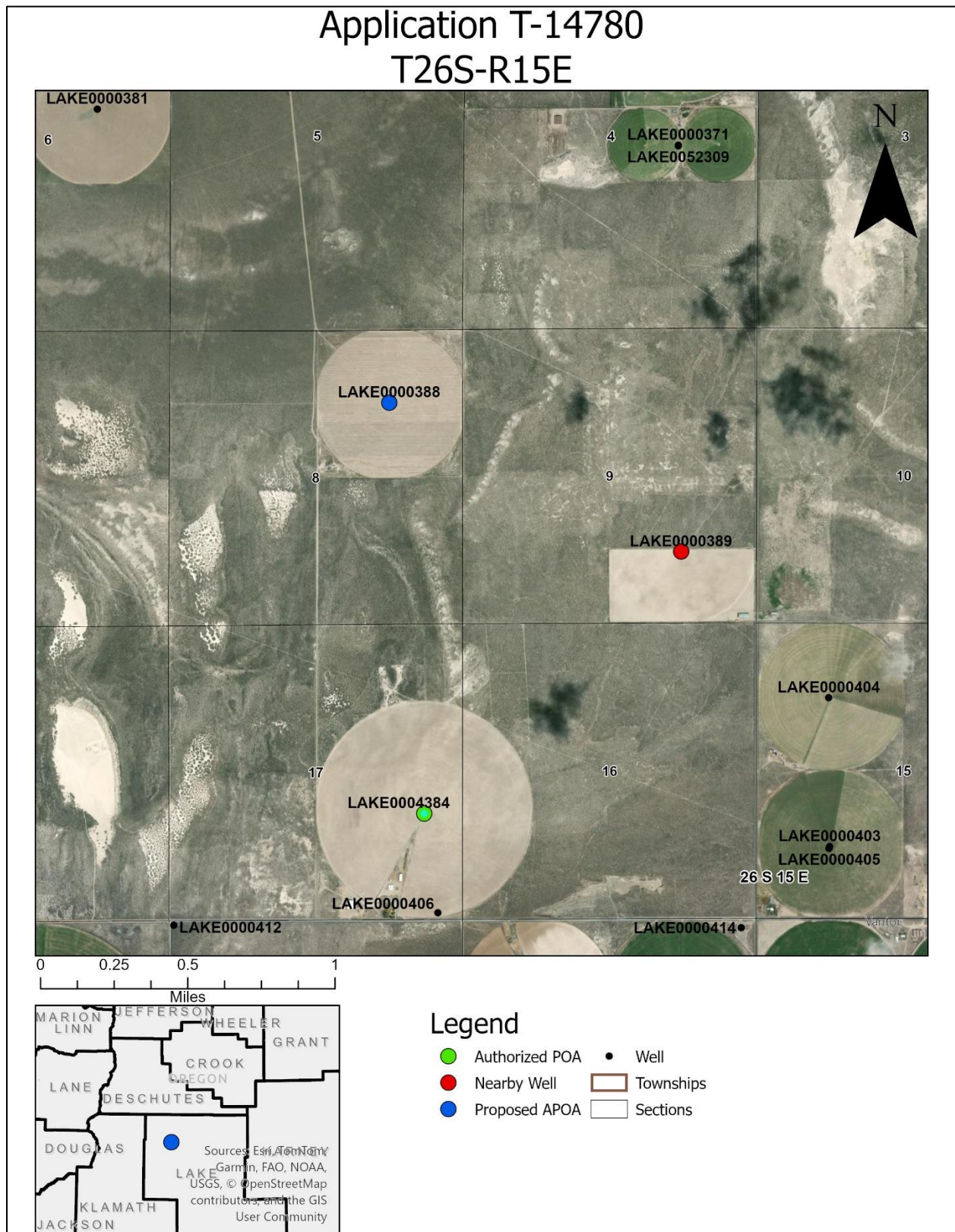
McFarland, W. D., & Ryals, G. N. (1991). Adequacy of available hydrogeologic data for evaluation of declining ground-water levels in the Fort Rock Basin, south-central Oregon. In *Water-Resources Investigations Report* (B4; USGS Numbered Series Nos. 89–4057; Water-Resources Investigations Report, p. 47). U.S. Geological Survey ; Books and Open-File Reports Section [distributor],; GW Library. <https://doi.org/10.3133/wri894057>

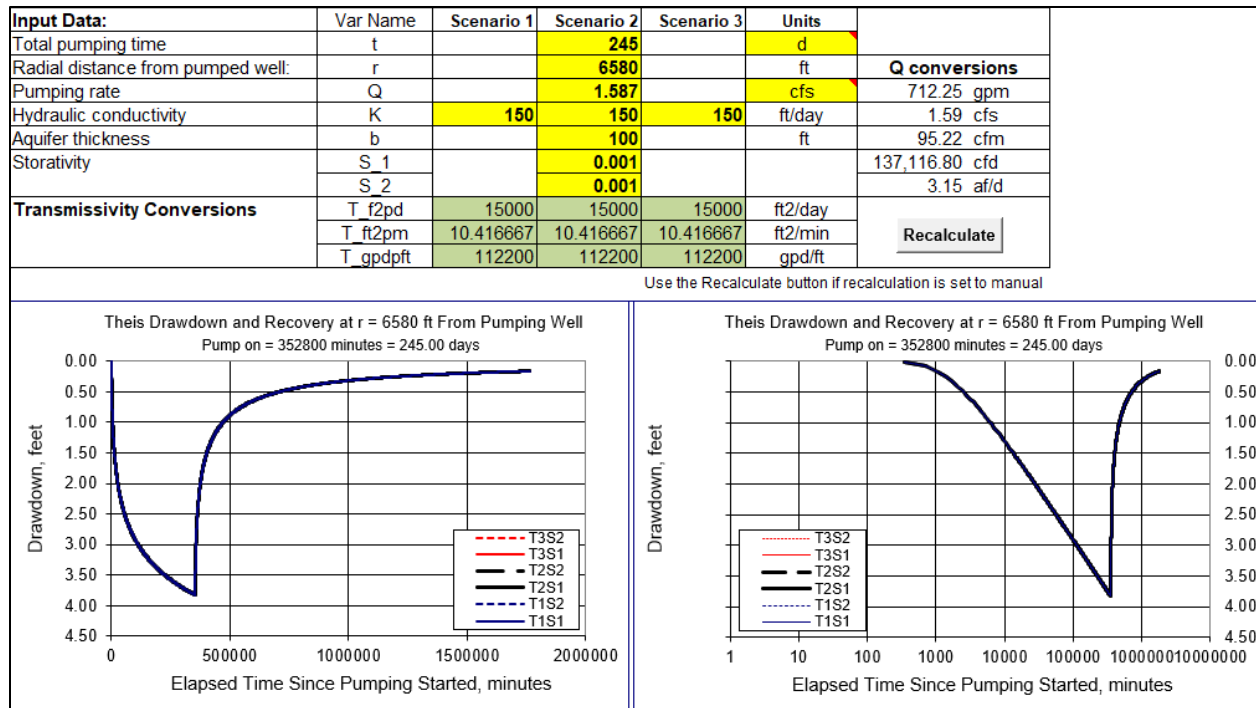
Miller, D. (1984). *Appraisal of Ground Water Conditions in the Fort Rock Basin, Lake County, Oregon*. Retrieved October 30, 2020, from <https://www.oregon.gov/owrd/wrdreports/OpenFileAppraisalofGWConditionsFortRockBasin1984.pdf>

OWRD Well Report Query: https://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

OWRD Water Right Information Search Query: <https://apps.wrd.state.or.us/apps/wr/wrinfo/>

T-14731 Review

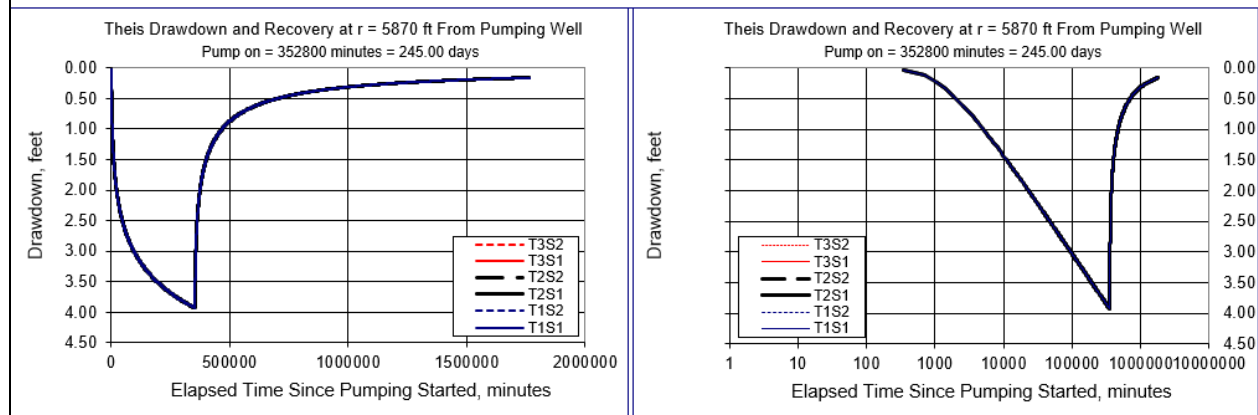
T-14780 Map

Drawdown from Authorized POA

Drawdown from Proposed APOA

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		5870		ft	
Pumping rate	Q		1.563		cfs	701.47 gpm
Hydraulic conductivity	K	150	150	150	ft/day	1.56 cfs
Aquifer thickness	b		100		ft	93.78 cfm
Storativity	S_1		0.001			135,043.20 cfd
	S_2		0.001			3.10 af/d
Transmissivity Conversions	T_ft2pd	15000	15000	15000	ft2/day	
	T_ft2pm	10.416667	10.416667	10.416667	ft2/min	
	T_gpdpt	112200	112200	112200	gpd/ft	

Use the Recalculate button if recalculation is set to manual



Drawdown from Nearby affected POA for Certificate 53860