# **Groundwater Transfer Review Summary Form**

Transfer/PA # T- <u>14450</u>
GW Reviewer <u>Dennis Orlowski</u> Date Review Completed: <u>July 3, 2025</u>
Summary of Same Source Review:
$\ \square$ The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).
NOTE: this re-review revisits a previous finding of "not within the same aquifer" that was concluded in
the original T-14450 review completed on February 7, 2025. The rationale for this revised conclusion is
summarized in Section 2 of this re-review.
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 pe
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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Other

#### **Oregon Water Resources Department** 725 Summer Street NE, Suite A Salem, Oregon 97301-1271 (503) 986-0900 www.wrd.state.or.us

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OREGON			Orbuild	Water Review Polini.
	Oregon Water Re 725 Summer Street	sources Department NE, Suite A	⊠ Wat	ter Right Transfer
WATER RESOURCES	Salem, Oregon 973		☐ Peri	mit Amendment
DEPARTMENT	(503) 986-0900 www.wrd.state.or.u	18	$\square$ GR	Modification
			☐ Oth	er
Application: T-144	<u>50</u>		Appli	cant Name: City of Banks
Proposed Changes:	$\square$ POA	$\boxtimes$ APOA	$\square$ SW $\rightarrow$ GW	⊠ RA
	$\square$ USE	$\square$ POU	$\square$ OTHER	
Reviewer(s): Den	nis Orlowski		Date of Review	: <u>July 3, 2025 (re-review)</u>
	Date	e Reviewed by G	W Mgr. and Retur	ned to WRSD: <u>JTI 7/3/25</u>
The information propproved because:	ovided in the ap	plication is insuf	fficient to evaluate	whether the proposed transfer may be
The water well transfer.	reports provide	ed with the appli	cation do not corre	spond to the water rights affected by the
* *		-		on of the well construction details sed to be developed.

Basic description of the changes proposed in this transfer: This re-review supersedes the original review completed on February 7, 2025.

This proposed transfer relates to **certificate 95849**, which authorizes groundwater pumped from a single authorized POA (WASH 62373, "Well-2") for municipal uses by the City of Banks (maximum instantaneous pumping rate of 1.0 cfs, ~449 gpm).

This transfer proposes to add the following APOA to certificate 95849 (note that all of the proposed APOA are proposed to-be-drilled (TBD) well locations):

- WTP (Water Treatment Plant) well TBD
- AN (Aerts Rd North) well TBD
- AS (Aerts Rd South) well TBD
- Park-A (Park Primary) well TBD
- Park-B (Park Alternative) well TBD
- Park-C (Park Alternative) well TBD

NOTE: the authorized POA for certificate 95849, WASH 62373, is also a currently-proposed APOA for permit G-7593, which authorizes groundwater from a single POA (WASH 7651) for municipal uses by the City of Banks (WASH 7651, "Well-1", is located about 60 feet away from WASH 62373). This proposed change for WASH 62373 is part of transfer application T-14449, which as of this date is under review by OWRD.

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2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?

☑ Yes (see comments) ☑ No Comments: Authorized POA WASH 62373 ("Well-2") is 665 feet deep, with an open interval between 300 and 665 ft bls within the local Columbia River Basalt Group (CRGB) aquifer system. According to the WASH 62373 well log and additional documents provided by the applicant's agent (CwM-H2O, 2018), there are two principal water-bearing zones (WBZ) in this well: 378-468 ft bls and 615-660 ft bls.

Planned construction details for the six proposed (TBD) APOA show anticipated total well depths ranging between approximately 650 to 750 feet, with cased and sealed intervals from 0 to about 200-250 ft bls.

### <u>Previous Conclusion – Source Determination</u>

OWRD's previous conclusion for the T-14450 application was that despite the authorization of WASH 62373 as a POA for certificate 95849, in its current configuration the well was assumed to commingle two separate aquifers within the CRBG system (i.e., obtains groundwater from two presumably discrete WBZ positioned at approximately -125 to -250 ft msl and -320 to -430 ft msl in WASH 62373).

Consequently, the original T-14450 review stipulated that any new APOA authorized by this transfer would be limited to obtaining groundwater from only one of the two WBZ present in WASH 62373. This conclusion was based largely on past information provided for WASH 62373 by the applicant, much of which was deemed to be inconclusive, incomplete, and/or contradictory (as summarized below and in the previous T-14450 review).

### **Additional Information and Assessment**

After completion of the first review for T-14450, OWRD (1) re-evaluated additional information provided by the applicant's agent subsequent to the first review and (2) assessed longer-term water level trends in the CRBG aquifer system throughout most of the entire Tualatin Valley in an effort to improve understanding of groundwater conditions near Banks.

The following list summarizes key factors re-evaluated by OWRD that led to the revised conclusion provided in this re-review:

- (1) <u>Retraction of previous determination by the applicant's agent that a downhole video survey of WASH 62373 ("Well 2") did indeed show exchange of water between the two WBZ, thus indicating two discretely different aguifer sources (CwM-H2O, 2018).</u>
  - O An attachment to the T-14449 and T-14450 applications claimed that their original interpretation of the video survey was incorrect, and that "there is no evidence from the video survey of water movement in either direction", thus concluding "that the two WBZs share very similar hydraulic pressure regimes under static conditions."
  - Since completion of the first review, OWRD was provided with and examined this same video from WASH 62373, in addition to another video of WASH 50693 (the nearby Quail Valley Golf Course well with similar construction). OWRD concludes that this particular video evidence alone was insufficient to discern any predominant vertical flow direction within WASH 62373 (or WASH 50693), primarily because camera pause times were not long enough to allow turbulence caused by the vertical movement of the camera to diminish (i.e., remnant turbulent flow resulted in movement of suspended particles in generally haphazard directions).

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- (2) Recent provision of additional static water-level data from WASH 7651 and WASH 62373.
  - WASH 7651 ("Well 1") is another City of Banks well that is located only about 60 feet from WASH 62373 ("Well 2"). WASH 7651 is much shallower at 450 feet deep, and obtains groundwater from only the uppermost of the two primary WBZ present in WASH 62373. Historically, water level (or head) differences reported for the two wells have ranged from 15+ feet to several feet. Head differences of this magnitude are typically strong evidence that the wells tap different WBZ under markedly different hydraulic conditions, and thus each WBZ would typically be considered by OWRD to be a separate aquifer/source (OAR 690-200-0050)
  - To note, even the T-14449 application listed a head difference of 2.2 feet between WASH 7651 and WASH 62373, a magnitude which strongly suggests the wells tap discretely different aquifer sources.
  - Recently provided static water-level data of improved reliability indicates much smaller head differences on the order of ~0.2 to ~1 foot. While any head difference would suggest two different sources under different hydraulic head conditions, the generally very dynamic CRBG aquifer system in and near Banks was taken into account by OWRD for this reevaluation (i.e., the smaller head differences might reflect transient levels between drawdown and recovery phases, despite the contention they are truly "static").
    Consequently, while also not entirely conclusive alone, the more recent water-level measurements show much smaller differences compared to data previously provided to OWRD, and thus better support a determination of single source.
- (3) Recent provision of static and dynamic spinner log survey results to OWRD.
  - After completion of the first review, OWRD was provided with the results of static and dynamic spinner log surveys completed in both WASH 62373 ("Well 2") and nearby WASH 50693 (Quail Valley Golf Course well). The applicant's agent claimed the survey results suggested that (1) no vertical flow was occurring in either well, thus (2) there was no head differential between the shallow and deep WBZ, and therefore (3) the two WBZ constituted a single source aquifer.
  - O However, accuracy limitations of the spinner log instrumentation used for these surveys indicate that approximately 3 gpm of vertical flow could exist within the well without being detected by the instrumentation. The presence of any vertical flow in a well under static/non-pumping conditions indicates a head differential between successive WBZ, which in turn indicates that each WBZ behaves as a separate aquifer/source.
  - O Thus, the spinner log results *alone* are not conclusive proof a single aquifer determination, but were useful by (1) establishing relative flow contributions from each of the two key basalt interflows, and (2) effectively quantifying much additional flow from major fracture zones *apart from the basalt interflows* (as identified in the WASH 62373 and WASH 50693 well videos).

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- (4) OWRD assessment of long-term water-level trends in CRBG wells throughout much of the Tualatin Valley.
  - O Historic (~20-50 year) water-level data from many CRBG wells located throughout the Valley, with variable completion depths and elevations, exhibit (1) generally similar trends and (2) a generalized grouping of levels (heads) into two elevation zones: ~120-150 ft msl and ~180-200 ft msl. These aspects suggest a moderate to high degree of aquifer connectivity between many CRBG wells throughout the Valley.
  - Static water-level measurements from both WASH 7651 ("Well 1) and WASH 62373 ("Well 2") fall within the uppermost of these two head groupings. Recently reported head differences for those two wells have been relatively small when compared to the roughly 30-foot range used to define the upper grouping. OWRD's broader assessment of much more available data suggests that CRBG "aquifer" designations within the Valley might be defined more appropriately by head groupings (with relatively minor fluctuations within each grouping), as opposed to being defined as a singular basalt interflow, the presence of which is typically inferred only from well log descriptions.

(Note: additional supporting documentation provided by another consultant (Summit Water Resources, 2025) made reference to spinner log and temperature survey results that "...resulted in a single aquifer determination within the CRBG at the following locations in the Tualatin Basin:

- City of Beaverton: ASR 5, 2016
- City of Beaverton: ASR 7, 2020.
- *City of Tigard: ASR 3, 2014.*
- City of Cornelius, ASR well, 2017."

The open intervals for the above wells range from 384 to 998 feet, with multiple basalt interflows/WBZ present in each interval.

Despite the consultant's reference, it is not applicable to invoke downhole survey activities performed at these wells as a precedent for decision making for the Banks wells. The Beaverton and Tigard ASR wells are located within the Cooper Mountain-Bull Mountain Critical Groundwater Area (CGWA) located about 16-18 miles southeast of Banks. The order establishing that CGWA directs OWRD to manage the entire CRBG system with the CGWA as a **single groundwater source**. This directive has been a key factor when OWRD considers how to manage ASR storage and recovery wells within the CGWA.

Thus, the results of spinner, temperature and video surveys conducted in those particular ASR wells was not considered by OWRD as necessary to determine whether or not commingling of discretely-different WBZ exists, because OWRD treats the entire CRBG aquifer within the CGWA as a single source. Instead, those surveys were required to better inform and manage ASR activities, including storage accounting and where injection and recovery can occur (i.e., within specific interflows). Therefore, these same types of survey activities performed in the ASR wells located within the CGWA were done for different purposes, and thus should not be considered directly applicable to the Banks' wells in which assessing potential commingling of different WBZ was the primary objective.

The Cornelius ASR well is not within the Cooper Mountain-Bull Mountain CGWA. However, this well (WASH 73617) is relatively very deep (1589 ft), much deeper than almost all other CRBG wells in the Valley and thus highly unlikely to affect those other wells).

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### **Revised Conclusion – Source Determination**

After evaluating the additional information provided by the applicant and also conducting a broader assessment of aquifer conditions using historic regional data, the preponderance of evidence indicates the two water-bearing zones (WBZ) developed to date by the City of Banks in WASH 62373 ("Well 2") constitute a single aquifer (same source) for the purposes of meeting minimum well construction standards and managing basalt groundwater resource in the vicinity of Banks.

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At this time OWRD finds that the preponderance of evidence indicates that the authorized POA WASH 62373 and the proposed APOA (to-be-drilled) will obtain groundwater from the same groundwater source.

To ensure that each proposed APOA obtains groundwater only from the currently-authorized aquifer source, the GW Section recommends conditioning the transfer so that all of the proposed APOA wells be limited to accessing only the two primary basalt WBZ present between approximate elevations -125 to -430 ft msl (which is based on the two general WBZ identified in WASH 62373 ("Well

	2") and nearby WASH 50693 (QVGC well)).
	The following technical analyses were completed assuming these construction limitations will be applied to the proposed APOA wells.
3.	<ul> <li>a) Is the existing authorized POA subject to a water level decline condition?</li> <li>Yes  No  Comments: Certificate 95849 has several decline conditions common to CRBG aquifer wells in the Willamette Basin.</li> <li>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: A reference level for WASH 62373, or a method for prescribing one, is not stipulated in certificate 95849. However, superseded permit G-16312 states that "use of water from a new well shall not begin until an initial static water level in the well has been measured and reported to the Department."</li> </ul>
	The first plausible measurement reported to OWRD for WASH 62373 was from 5/25/2005 (48.0 ft bls (~elevation 184 ft msl)), which preceded the 4/28/2008 permit date by several years. However, the March 2009 aquifer test of WASH 62373 shows a similar static level of about 50 ft bls. Consequently, from this information a reference static water level for WASH 62373 is established at 48.0 ft bls (note that recent static levels reported to OWRD from March of 2023 and 2024 have been higher at ~35-40 ft bls; these higher levels reflect long-term recovery trends observed in the CRBG aquifer system throughout much of the Tualatin Valley).
	<ul> <li>WASH 62373 reference level: 48.0 ft bls.</li> <li>Most recent spring high water level: 39.13 ft bls (3/1/2024).</li> <li>No exceedances of permit decline conditions.</li> </ul>
4.	a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  Yes No Comments: As discussed in Section 2 of this review, at this time OWRD concludes that the authorized POA and proposed APOA – assuming recommended well construction limitations presented in d Section 8 of this review are adopted - will obtain groundwater from the same source.

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

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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?
	proposed APOA locations are nearer to existing groundwater rights. Thus, this proposed change will likely
	result in an increase in interference with those rights.
	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: <u>A representative proposed APOA location was evaluated for potential</u>
	injury to applicable existing groundwater rights. For this evaluation, the Theis distance-drawdown analysis
	was performed to estimate the degree of additional interference at the nearest applicable existing well
	(Theis, 1935). The ranges of aquifer parameter values used were derived primarily from results of a 2009
	aquifer test completed in proposed APOA WASH 62373 (Golder Associates, 2009) and in another separate
	test of WASH 50693 (QVGC well), as well as published values (Conlon et al., 2005; Gannett and Caldwell,
	<u>1998).</u>
	In liqu of avaluating injury potentially caused by all six of the proposed APOA a likely "worst case"

In lieu of evaluating injury potentially caused by all six of the proposed APOA, a likely "worst case" scenario was instead evaluated. This scenario consists of pumping from the proposed "AN Well" location, which is relatively near to existing wells that obtain groundwater primarily from common WBZ: WASH 79189 and WASH 56924 (see attached cross-section). Furthermore, because the same "AN Well" location (as well as WASH 62373) was also proposed as an APOA in transfer application T-14449, that well could be authorized to pump a stacked rate of 1.67 cfs (equal to 0.67 cfs from T-14449/permit G-7593, plus 1.0 cfs from this application T-14450/certificate 95849).

(Note that there are several known wells relatively close to the proposed location for the "WTP Well"; however, current OWRD records indicate that these particular wells are owned by the City of Banks, and are associated with irrigation of school grounds (WASH 77871, WASH 7628, WASH 7621, WASH 3184). Consequently, it is assumed that the City can manage potential adverse interference to these existing wells resulting from pumping at the "WTP Well" location).

Relative to the location of authorized POA WASH 62373, the proposed location for the "AN Well" is about 2700 feet nearer to WASH 79189. The results of the Theis interference analysis indicates that additional interference in WASH 79189 could potentially range from about 10 to 50 feet due to pumping the *stacked* maximum rate (1.67 cfs) 24/7/365 from the "AN Well" (see attached Theis analysis results).

Limited water level data from another nearby similar well (WASH 56924) indicates that the static water level in WASH 79189 likely ranges from about elevation 180 to 200 ft msl, which would provide roughly 200 feet or more of available drawdown in both it and existing wells of similar completion. This approximate range of available drawdown should be sufficient to support ongoing usage of these wells with the change proposed by this application (i.e., the change will not prevent those wells from receiving the groundwater to which they are legally entitled).

The results of the potential injury evaluation suggests that relatively moderate (~10-50 feet) levels of additional drawdown might be imposed in some area wells due to pumping of the "AN Well", and possibly at other proposed APOA locations. It should be noted, however, that these estimates were completed using very conservative operational parameters for the Theis analytical drawdown method: pumping a single well at the full allocated rate (and in this case a stacked rate) for 24 hours a day, 7 days a week, 365 days a year. Actual pump operation will likely not be this sustained, and/or could be rotated to different locations to distribute overall pumping stresses to the CRBG aquifer system.

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Furthermore, from the 2009 aquifer test of WASH 62373 ("Well 2") during which that well was pumped continuously for 47 hours at 465 gpm (~1 cfs), a total of 77 feet of drawdown was observed in adjacent WASH 7651 ("Well 1"), and only 2 feet in WASH 50693 (QVGC well) which is located about 3200 feet from WASH 62373. The results from the aquifer test generally confirm the conservative approach used for the Theis drawdown assessments, and that actual additional drawdown might be somewhat less than predicted, particularly for wells that penetrate the deeper of the two primary WBZ.

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: With the planned cased and sealed depth of about 200-250 feet for the					
	proposed APOA not yet drilled, and 300 feet for WASH 62373, water-bearing interflow zone(s) will likely					
	be from many tens to perhaps hundreds of feet below any nearby stream reaches. Consequently, it is					
	unlikely that the proposed change would result in an increase in interference with local surface water					
	sources.					
	b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any <b>surface water sources</b> resulting from the proposed change?					
	Stream:					
	Stream:					
	Provide context for minimal/significant impact: <u>N/A</u>					
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?					
	$\square$ Yes $\boxtimes$ No Comments: $\underline{N/A}$					
8.	What conditions or other changes in the application are necessary to address any potential issues identified above: To ensure that each proposed APOA obtains groundwater only from the currently-authorized aquifer source, the GW Section recommends conditioning the transfer so that all of the proposed					
	APOA wells be limited to accessing only the two primary basalt WBZ present between approximate					
	elevations -125 to -430 ft msl (which is based on the two general WBZ identified in WASH 62373					
	("Well 2") and nearby WASH 50693 (QVGC well)).					
9.	Any additional comments: None					

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## References

Applications: T-14450 RA, T-14449 RA

Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, *Ground-water hydrology of the Willamette Basin, Oregon*, Scientific Investigations Report 2005-5168: U. S. Geological Survey, Reston, VA.

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CwM-H2O, 2018. Banks-Green Mountain Aquifer Storage and Recovery Feasibility Study, prepared for City of Banks

Freeze, R.A. and Cherry, J.A., 1979, Groundwater, Prentice Hall, Englewood Cliffs, New Jersey, 604 p.

Gannett, M.W. and Caldwell, R., 1998, *Geologic framework of the Willamette Lowland aquifer system*, *Oregon and Washington*, Professional Paper 1424-A, 32 p. U. S. Geological Survey, Reston, VA.

Golder Associates, 2009. Technical Memorandum: March 2009 Well #2 Aquifer Test Data Analysis.

<u>Personal communication (also provided instrument specifications), Mike Schumacher (Pacific Surveys) to</u> Justin Iverson (OWRD), January 24, 2025.

Theis, C.V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using groundwater storage, American Geophysical Union Transactions, vol. 16, p. 519-524.

<u>United States Geological Survey, 2013, National Elevation Dataset (NED) [DEM geospatial data]. 1/9th arc-second, updated 2013.</u>

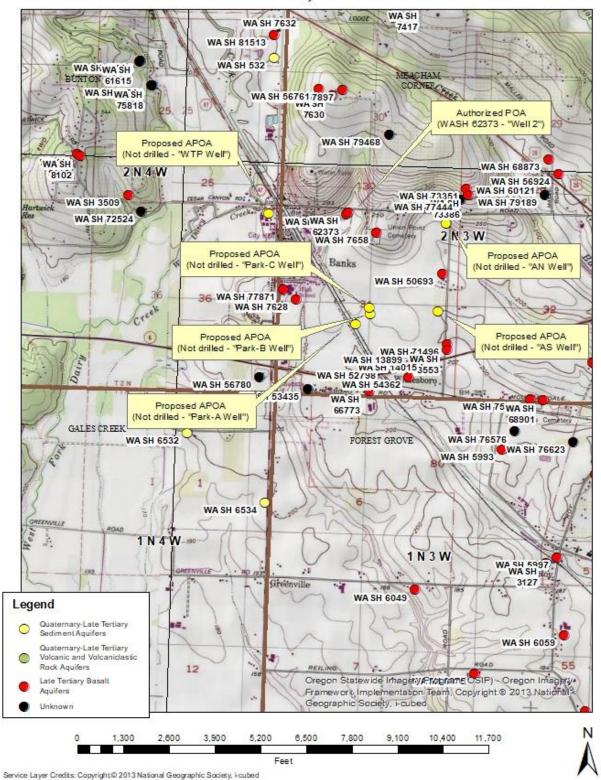
<u>United States Geological Survey, 2017, Forest Grove quadrangle, Oregon [map], 1:24,000, 7.5 minute topographic series, U.S. Department of the Interior, Reston, VA.</u>

Watershed Sciences, 2009, LIDAR remote sensing data collection, Department of Geology and Mineral Industries, Willamette Valley Phase I, Oregon: Portland, OR, December 21.

Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

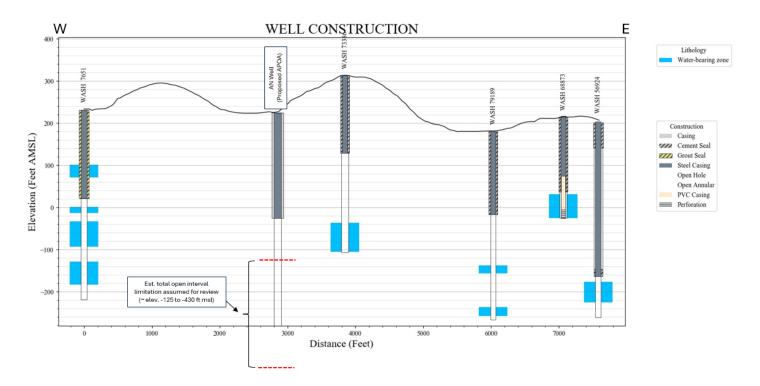
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### Application T-14450, City of Banks T2N, R3W



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### Cross-section: W-E, proposed APOA "AN Well" and WASH 79189



### Theis Drawdown Analysis, Authorized POA WASH 62373 to WASH 79189

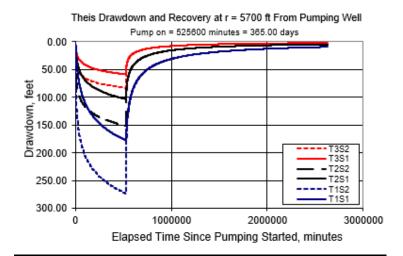
Theis Time-Drawdown Worksheet v.5.00

Calculates Theis nonequilibrium drawdown and recovery at any arbitrary radial distance, r, from a pumping well for 3 different T radial distance, r, from a pumping well for 3 different T values and 2 different S values.

Written by Karl C. Wozniak September 1992. Last modified December 17, 2019

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		365		d	
Radial distance from pumped well:	r		5700		ft	Q conversions
Pumping rate	Q		1.67		cfs	749.50 gpm
Hydraulic conductivity	K	5	10	20	ft/day	1.67 cfs
Aquifer thickness	b		55		ft	100.20 cfm
Storativity	S_1		0.0001			144,288.00 cfd
	S_2		0.00001			3.31 af/d
Transmissivity Conversions	T_f2pd	275	550	1100	ft2/day	,
	T_ft2pm	0.190972	0.381944	0.763889	ft2/min	Recalculate
	T_gpdpft	2057	4114	8228	gpd/ft	

Use the Recalculate button if recalculation is set to manual



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### Theis Drawdown Analysis, Proposed APOA "AN Well" to WASH 79189

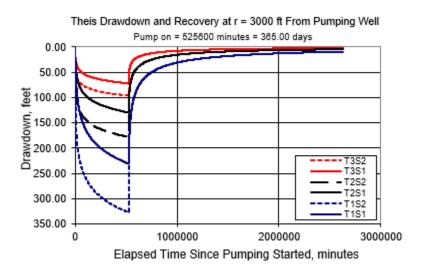
Theis Time-Drawdown Worksheet v.5.00

Calculates Theis nonequilibrium drawdown and recovery at any arbitrary radial distance, r, from a pumping well for 3 different T radial distance, r, from a pumping well for 3 different T values and 2 different S values.

Written by Karl C. Wozniak September 1992. Last modified December 17, 2019

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		365		d	
Radial distance from pumped well:	r		3000		ft	Q conversions
Pumping rate	Q		1.67		cfs	749.50 gpm
Hydraulic conductivity	K	5	10	20	ft/day	1.67 cfs
Aquifer thickness	b		55		ft	100.20 cfm
Storativity	S_1		0.0001			144,288.00 cfd
	S_2		0.00001			3.31 af/d
Transmissivity Conversions	T_f2pd	275	550	1100	ft2/day	
	T_ft2pm	0.190972	0.381944	0.763889	ft2/min	Recalculate
	T_gpdpft	2057	4114	8228	gpd/ft	

Use the Recalculate button if recalculation is set to manual



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