

Application for Permanent Water Right Transfer

Part 1 of 4 – Minimum Requirements Checklist



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

This transfer application will be returned if Parts 1 through 4 and all required attachments are not completed and included.

For questions, please call (503) 986-0900, and ask for Transfer Section.

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Check all items included with this application. (N/A = Not Applicable)

- ☒ Part 1 – Completed Minimum Requirements Checklist.
- ☒ Part 2 – Completed Transfer Application Map Checklist.
- ☒ Part 3 – Completed Applicant Information and Signature.
- ☒ Part 4 – Information about Water Rights to be Transferred: **How many water rights are to be transferred? 1 List them here: 95711**
Please include a separate Part 4 for each water right. (See instructions on page 6)
NOTE: A separate transfer application is required for each water right unless the criteria in OAR 690-380-3220 are met.
- ☒ **Application Fee** - payable by check to the Oregon Water Resources Department, the online fee calculator is located:
https://apps.wrd.state.or.us/apps/wr/wr_transfer_calculator/permanent_transfer.aspx
Attachments:
 - ☒ Completed Transfer Application Map.
 - ☒ Completed Evidence of Use Affidavit and supporting documentation.
 - ☐ ☒ N/A Affidavit(s) of Consent from Landowner(s) (if the applicant does not own the land the water right is on.)
 - ☐ ☒ N/A Supplemental Form D – For water rights served by or issued in the name of an irrigation district. Complete when the transfer applicant is not the irrigation district.
 - ☒ ☐ N/A Oregon Water Resources Department's Land Use Information Form with approval and signature from each local land use authority in which water is to be diverted, conveyed, and/or used. Not required if water is to be diverted, conveyed, and/or used only on federal lands or if all of the following apply: a) a change in place of use only, b) no structural changes, c) the use of water is for irrigation only, and d) the use is located within an irrigation district or an exclusive farm use zone.
 - ☒ ☐ N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation.
 - ☒ ☐ N/A Geologist Report for a change from a surface water point of diversion to a ground water point of appropriation (well), if the proposed well is more than 500' from the surface water source and more than 1000' upstream or downstream from the point of diversion. See OAR 690-380-2130 for requirements and applicability.

(For Staff Use Only)

WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):

- | | |
|--|--|
| ☐ Application fee not enclosed/insufficient | ☐ Map not included or incomplete |
| ☐ Land Use Form not enclosed or incomplete | ☐ Evidence of Use Form not enclosed or incomplete |
| ☐ Additional signature(s) required | ☐ Part _____ is incomplete |

Other/Explanation _____

Staff: _____ 503- _____ Date: ____/____/____

Your transfer application will be returned if any of the map requirements listed below are not met.

Please be sure that the transfer application map you submit includes all the required items and matches the existing water right map. Check all boxes that apply.

- ☒ ☐ N/A Certified Water Right Examiner (CWRE) Stamp and Original Signature. For a list of CWREs, see http://apps.wrd.state.or.us/apps/wr/cwre_license_view/. CWRE stamp and signature are not required for substitutions.
- ☐ ☒ N/A If **more than three** water rights are involved, separate maps are needed for each water right.
- ☒ Permanent quality printed with dark ink on good quality paper.
- ☒ The size of the map can be 8½ x 11 inches, 8½ x 14 inches, 11 x 17 inches, or up to 30 x 30 inches. For 30 x 30 inch maps, one extra copy is required.
- ☒ A north arrow, a legend, and scale.
- ☒ The scale of the map must be: 1 inch = 400 feet, 1 inch = 1,320 feet, the scale of the Final Proof/Claim of Beneficial Use Map (the map used when the permit was certificated), the scale of the county assessor map if the scale is not smaller than 1 inch = 1,320 feet, or a scale that has been pre-approved by the Department.
- ☒ Township, Range, Section, ¼ ¼, DLC, Government Lot, and other recognized public land survey lines.
- ☒ Tax lot boundaries (property lines) are required. Tax lot numbers are recommended.
- ☒ Major physical features including rivers and creeks showing direction of flow, lakes and reservoirs, roads, and railroads.
- ☒ Major water delivery system features from the point(s) of diversion/appropriation such as main pipelines, canals, and ditches.
- ☒ Existing place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the water right is being changed, a separate hachuring is needed for lands left unchanged.
- ☒ ☐ N/A Proposed place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions.
- ☒ Existing point(s) of diversion or well(s) with distance and bearing or coordinates from a recognized survey corner. This information can be found in your water right certificate or permit.
- ☒ ☐ N/A If you are proposing a change in point(s) of diversion or well(s), show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example – 42°32'15.5") or degrees-decimal with five or more digits after the decimal (example – 42.53764°).

Part 3 of 4 – Applicant Information and Signature

Applicant Information

APPLICANT/BUSINESS NAME WENRONG WANG			PHONE NO. 571-250-9518	ADDITIONAL CONTACT NO.
ADDRESS 1275 HEARST AVENUE			FAX NO.	
CITY BERKELEY	STATE CA	ZIP 94702	E-MAIL OKWUJINGYU@GMAIL.COM	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT/BUSINESS NAME George Wu			PHONE NO. 571-250-9518	ADDITIONAL CONTACT NO.
ADDRESS 27651 Redwood Highway			FAX NO.	
CITY Cave Junction	STATE OR	ZIP 97523	E-MAIL OKWUJINGYU@GMAIL.COM	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

Explain in your own words what you propose to accomplish with this transfer application, and why:
To obtain water supply for nursery uses on my property south of Cave Junction. My application G-19387 was denied. If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

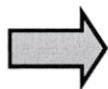
Check One Box

- ☒ By signing this application, I understand that, upon receipt of the draft preliminary determination and prior to Department approval of the transfer, I will be required to provide landownership information and evidence that I am authorized to pursue the transfer as identified in OAR 690-380-4010(5); **OR**
- ☐ I affirm the applicant is a municipality as defined in ORS 540.510(3)(b) and that the right is in the name of the municipality or a predecessor; **OR**
- ☐ I affirm the applicant is an entity with the authority to condemn property and is acquiring by condemnation the property to which the water right proposed for transfer is appurtenant and have supporting documentation.

By my signature below, I confirm that I understand:

- Prior to Department approval of the transfer application, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: Grants Pass Daily Courier.
- Amendments to the application may only be made in response to the Department's Draft Preliminary Determination (DPD). The applicant will have a period of at least 30 days to amend the application to address any issues identified by the Department in the DPD, or to withdraw the application. Note that amendments may be subject to additional fees, pursuant to ORS 536.050.
- Failure to complete an approved change in place of use and/or change in character of use, will result in loss of the water right (OAR 690-380-6010).
- Refunds may only be granted upon request and, as set forth in ORS 536.050(4)(a), if the Director determines that a refund of all or part of a fee is appropriate in the interests of fairness to the public or necessary to correct an error of the Department.

I (we) affirm that the information contained in this application is true and accurate.



Wenrong Wang
Applicant signature

Wenrong Wang
Print Name (and Title if applicable)

10/1/2025
Date

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Applicant signature

Print Name (and Title if applicable)

Date

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Is the applicant the sole owner of the land on which the water right, or portion thereof, proposed for transfer is located? ☒ Yes ☐ No*

**If NO, include signatures of all deeded landowners (and mailing and/or e-mail addresses if different than the applicant's) or attach affidavits of consent (and mailing and/or e-mail addresses) from all landowners or individuals/entities to which the water right(s) were conveyed.*

Check the following boxes that apply:

- ☒ The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.
- ☐ The receiving landowner will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to this landowner.
- ☐ Both the receiving landowner and applicant will be responsible for completion of change(s). Copies of notices and correspondence should be sent to this landowner and the applicant.

At this time, are the lands in this transfer application in the process of being sold? ☐ Yes ☒ No

If YES, and you know who the new landowner will be, please complete the receiving landowner information table below. If you do not know who the new landowner will be, then a request for assignment will have to be filed for at a later date.

If a property sells, the certificated water right(s) located on the land belong to the new owner, unless a sale agreement or other document states otherwise. For more information see:

https://www.oregon.gov/owrd/WRDFormsPDF/Transfer_Property_Transactions.pdf

RECEIVING LANDOWNER NAME NA			PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS				FAX NO.
CITY	STATE	ZIP	E-MAIL	
Describe any special ownership circumstances:				
The confirming Certificate shall be issued in the name of: ☐ Applicant ☐ Receiving Landowner				

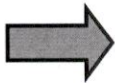
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☐ Check here if any of the water rights proposed for transfer are or will be located within or served by an irrigation or other water district. (Tip: Complete and attach Supplemental Form D.)

IRRIGATION DISTRICT NAME NA	ADDRESS	
CITY	STATE	ZIP

☐ Check here if water for any of the rights supplied under a water service agreement or other contract for stored water with a federal agency or other entity.

ENTITY NAME NA	ADDRESS	
CITY	STATE	ZIP



To meet State Land Use Consistency Requirements, you must list all county, city, municipal corporation, or tribal governments within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME Josephine County	ADDRESS 500 NW 6th St	
CITY Grants Pass	STATE OR	ZIP 97526

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

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Part 4 of 4 – Water Right Information

Please use a separate Part 4 for each water right being changed. See instructions on page 6, to copy and paste additional Part 4s, or to add additional rows to tables within the form.

CERTIFICATE # 95711

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Description of Water Delivery System

System capacity: _____ cubic feet per second (cfs) OR

12 gallons per minute (gpm)

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Describe the current water delivery system or the system that was in place at some time within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. **A 2 HP river pump powered by a gasoline generator moves water into a tank. From the tank water is pumped for irrigation of the crop plants.**

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)

(Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L-____)	Twp		Rng		Sec	¼ ¼		Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
POD	☒ Authorized ☐ Proposed		39	S	8	W	32	NE	SW	1190	1200 ft S and 480ft W from C1/4 of Sec 32
Well#2	☐ Authorized ☒ Proposed	JOSE 62064	39	S	8	W	28	NE	SW	100	1210 ft S and 460 ft W from C1/4 of Sec 28
	☐ Authorized ☐ Proposed										
	☐ Authorized ☐ Proposed										
	☐ Authorized ☐ Proposed										

Check all type(s) of change(s) proposed below (change "CODES" are provided in parentheses):

- | | |
|---|---|
| ☐ Place of Use (POU) | ☐ Supplemental Use to Primary Use (S to P) |
| ☐ Character of Use (USE) | ☐ Point of Appropriation/Well (POA) |
| ☐ Point of Diversion (POD) | ☐ Additional Point of Appropriation (APOA) |
| ☐ Additional Point of Diversion (APOD) | ☐ Substitution (SUB) |
| ☒ Surface Water POD to Ground Water POA (SW/GW) | ☐ Government Action POD (GOV) |

Will all of the proposed changes affect the entire water right?

- ☐ Yes Complete only the Proposed ("to" or "on" lands) section of Table 2 on the next page. Use the "CODES" listed above to describe the proposed changes.
- ☒ No Complete all of Table 2 to describe the portion of the water right to be changed.

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Please use and attach additional pages of Table 2 as needed.
See page 6 for instructions.

Do you have questions about how to fill-out the tables?
Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 95711

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change.
If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.											Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.														
Twp	Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres	Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Priority Date	Twp		Rng	Sec	¼ ¼	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date						
EXAMPLE																										
2	S	9	E	15	NE	NW	100		15.0	Irrigation	POD #1 POD #2	1901	POU/POD	2	S	9	E	1	NW	NW	500	1	10.0		POD #5	1901
														2	S	9	E	2	SW	NW	500		5.0		POD #6	1901
39	S	8	W	32	NE	SW	1190				POD	1945	SW/GW	39	S	8	W	28	NE	SW	100				Well#2	1945
TOTAL ACRES:										TOTAL ACRES:																

Additional remarks: This transfer is to change a POD on one of my properties to a POA on another of my properties.

For Place of Use or Character of Use Changes

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands? ☐ Yes ☒ No

If YES, list the certificate, water use permit, or ground water registration numbers:_____.

 Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

Ground water supplemental Permit or Certificate # _____;

Surface water primary Certificate # _____.

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For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # _____

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For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

- ☒ Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at:

http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

- ☐ Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well: OWRD Well ID Tag No. L-____	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well-specific rate (cfs or gpm). If less than full rate of water right
Well#2	Yes	157604	180	6"	+4 to 98'	0' to 98'	38' to 98'	38	Clay & mixed gravel & sand	28 gpm

Land Use Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
www.oregon.gov/OWRD

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NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

This form is NOT required if:

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or groundwater registration modification, and all of the following apply:
 - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
 - b) The application involves a change in place of use only;
 - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; and
 - d) The application involves irrigation water uses only.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land use form and return it to the WRD. If no land use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0900.

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Land Use Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
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Applicant

NAME WENRONG WANG			PHONE (HM)	
PHONE (WK)		CELL 571-250-9518		FAX
ADDRESS 1275 HEARST AVENUE				
CITY BERKELEY	STATE CA	ZIP 94702	E-MAIL* OKWUJINGYU@GMAIL.COM	

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
39S	8W	28	NESW	100	FC	☒ Diverted	☒ Conveyed	☒ Used	Nursery
						☐ Diverted	☐ Conveyed	☐ Used	
						☐ Diverted	☐ Conveyed	☐ Used	
						☐ Diverted	☐ Conveyed	☐ Used	

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Josephine

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- ☒ Permit to Use or Store Water
 ☐ Water Right Transfer
 ☐ Permit Amendment or Groundwater Registration Modification
☐ Limited Water Use License
 ☐ Allocation of Conserved Water
 ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ☒ Groundwater ☐ Surface Water (name) _____

Estimated quantity of water needed: 25 ☐ cubic feet per second ☒ gallons per minute ☐ acre-feet

Intended use of water: ☒ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☐ Municipal ☐ Quasi-Municipal ☐ Instream ☒ Other Nursery Use

Briefly describe:

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

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Land Use Information Form



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Salem, Oregon 97301-1266
503-986-0900
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Applicant

NAME
WENRONG WANG

PHONE (WK)

ADDRESS
1275 HEARST AVENUE

CITY
BERKELEY

From: 254 Burd
Dr.

To: 27651 Redwood
Hwy.

PHONE (HM)

FAX

L.COM

A. Land and Location

Please include the following information (transported), and/or used or developed, and/or substitute existing and proposed

(taken from its source), conveyed uses within irrigation districts may requested below.

Township	Range	Section			Rural Residential/RR-5)	Water to be:			Proposed Land Use:
39S	8W	28	NESW	100	FC	☒ Diverted	☒ Conveyed	☒ Used	Nursery
39S	08W	32	NESW	1109	RR5	☒ Diverted	☒ Conveyed	☒ Used	
39S	08W	32	NESW	1190	RR5	☒ Diverted	☒ Conveyed	☒ Used	
						☐ Diverted	☐ Conveyed	☐ Used	

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Josephine

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- ☒ Permit to Use or Store Water
 ☒ Water Right Transfer
 ☐ Permit Amendment or Groundwater Registration Modification
☐ Limited Water Use License
 ☐ Allocation of Conserved Water
 ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ☒ Groundwater ☐ Surface Water (name) _____

Estimated quantity of water needed: **xx 12** ☐ cubic feet per second ☒ gallons per minute ☐ acre-feet

Intended use of water: ☒ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☐ Municipal ☐ Quasi-Municipal ☐ Instream ☒ Other Nursery Use

Briefly describe:

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

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For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land use plan. Do not include approval for activities such as building or grading permits.

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Please check the appropriate box below and provide the requested information

SEP 09 2025

☒ Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): JO CO - PLANNING

☐ Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below. (Please attach documentation of applicable land use approvals which have already been obtained. Record of Action/land use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land Use Approval:	
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued

Local governments are invited to express special land use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

19.61.020.C - AGRICULTURE, FARMING & FARM USE. 19.65.020.B.8 FARM USE

NAME <u>TERRI WOODRUFF</u>		TITLE: <u>ASSISTANT PLANNER</u>	
SIGNATURE <u>T Woodruff</u>	PHONE: <u>541-474-5433</u>	DATE: <u>9.23.2025</u>	
GOVERNMENT ENTITY <u>JOSEPHINE COUNTY PLANNING</u>		<u>Josephine County Planning</u> <u>700 NW Dimmick Street</u> <u>Suite C</u> <u>Grain Valley, OR 97126</u>	

Note to local government representative: Please complete this form or sign the receipt and refer it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

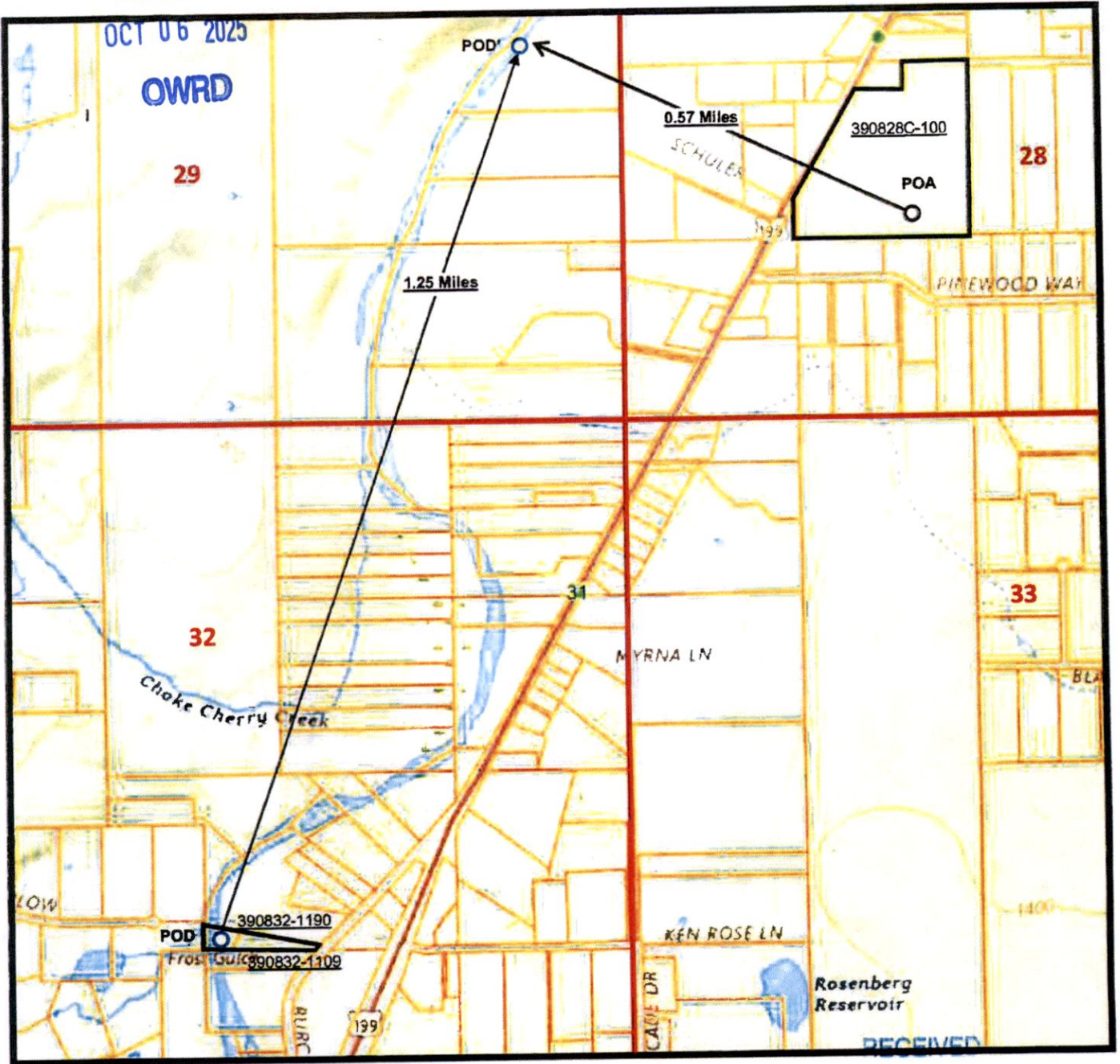
Signature: _____ Phone: _____ Date: _____

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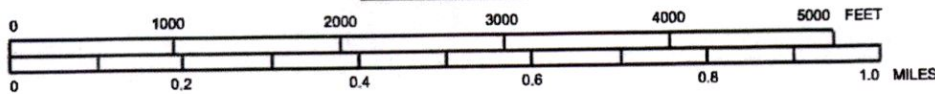
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GRAPHIC SCALE



SEP 09 2025

JO CO - PLANNING

Water Rights C#95711 Transfer Josephine County, Oregon	
General Location Map	
	Scale: See Graphic
	Date: September 1, 2025
	Prepared by RLG
	Source: Josephine County GIS, Site mapping
R & D ENVIRONMENTAL SOLUTIONS, LLC 1439 NE 6 th Street, Suite 2 Grants Pass, OR 97526 (541) 471-7008	
File: C:\WR\C95711\Site.doc	

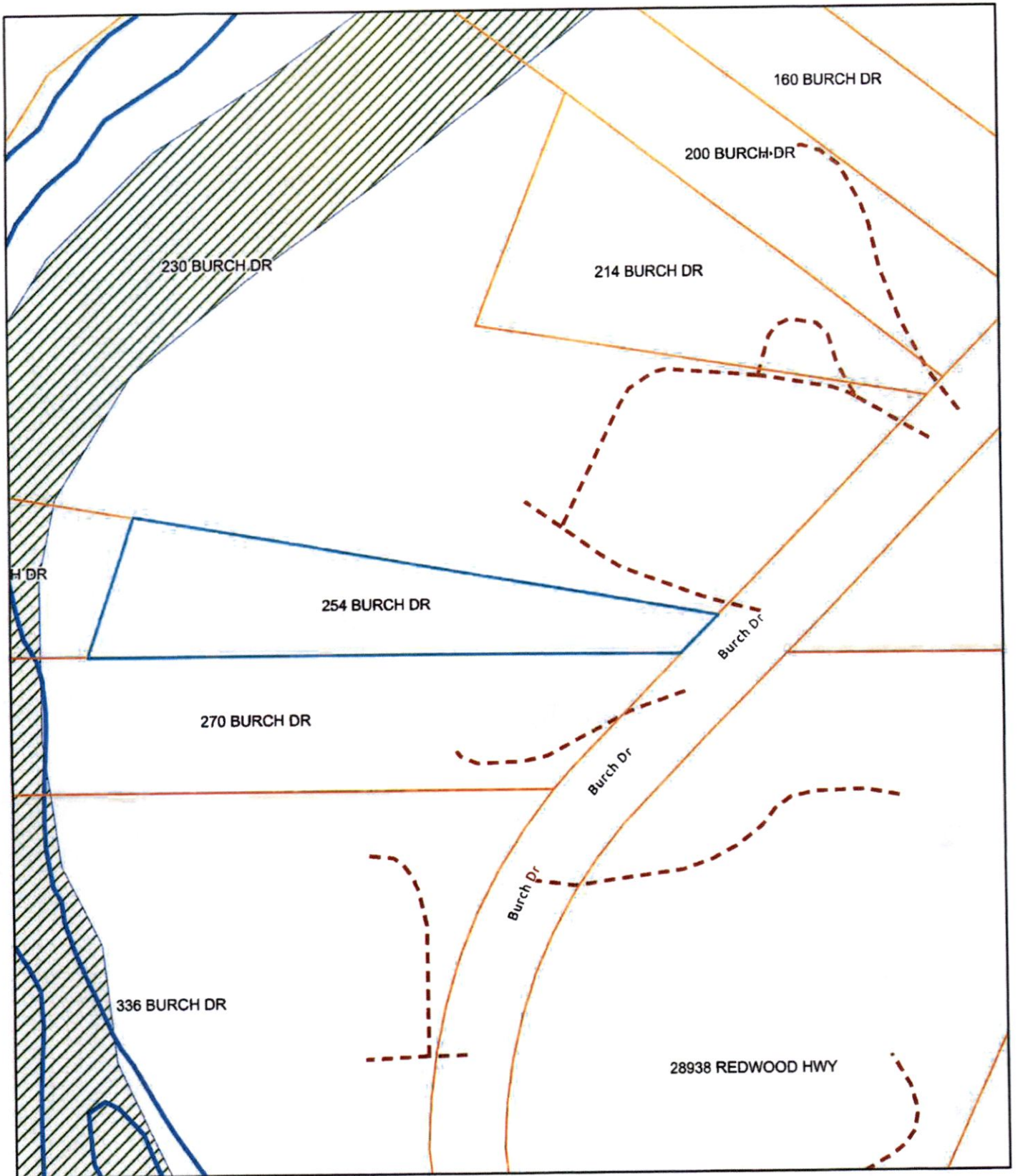


Notes

- POA Proposed Point of Appropriation
- POD Current Point of Diversion
- POD' Closest downstream point to POA well
- Section Boundary (T38 South, R8 West)
- Subject properties boundary
- Tax Lot Boundary

14749 -

ArcGIS Web Map



9/9/2025, 8:45:41 AM



Taxlots

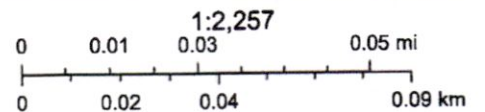


Driveways

Waterline: Rivers & Streams

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Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap



Community Development - Planning Division
700 NW Dimmick, Suite C
Grants Pass, OR 97526

Receipt Number: PL25-00958

(541) 474-5421
planning@josephinecounty.gov

Payer/Payee: WANG, WENRONG
1275 HEARST AVE
BERKELEY CA 94702

Cashier: Amber Peavyhouse

Date: 09/09/2025

Primary Parcel: 390828C0000100 **Project Description:** OWRD - water rights

PL-2025-00903 LAND USE INFORMATION RESPONSE 27651 REDWOOD HWY

Fee Description

Land Use Information Response

<u>Fee Amount</u>	<u>Amount Paid</u>	<u>Fee Balance</u>
\$129.00	\$129.00	\$0.00
\$129.00	\$129.00	\$0.00

<u>Payment Method</u>	<u>Reference Number</u>	<u>Payment Amount</u>
CREDIT CARD	182253343	\$129.00
Total Paid:		\$129.00

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Application for Water Right Transfer

Evidence of Use Affidavit



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

Please print legibly or type. Be as specific as possible. Attach additional pages if you need more spacing.
Supporting documentation must be attached.

State of Oregon)

County of Josephine) ss

I, Catherine Justice, in my capacity as owner

mailing address PO Box 38, Rand, CO 80473

telephone number (541) 761-5440, being first duly sworn depose and say:

1. My knowledge of the exercise or status of the water right is based on (check one):

☒ Personal observation

☐ Professional expertise

2. I attest that:

☐ Water was used during the previous five years on the entire place of use for Certificate # _____; OR

☒ My knowledge is specific to the use of water at the following locations within the last five years:

Certificate #	Township		Range		Mer	Sec	¼ ¼	TAX LOT Gov't Lot or DLC	Acres (if applicable)
95711	39	S	8	W	NM	32	NESW + NWSE	1109	1.25

OR

☐ Confirming Certificate # _____ has been issued within the past five years; OR

☐ Part or all of the water right was leased instream at some time within the last five years. The instream lease number is: _____ (Note: If the entire right proposed for transfer was not leased, additional evidence of use is needed for the portion not leased instream.); OR

☐ The water right is not subject to forfeiture and documentation that a presumption of forfeiture for non-use would be rebutted under ORS 540.610(2) is attached.

☐ Water has been used at the actual current point of diversion or appropriation for more than 10 years for Certificate # _____ (For Historic POD/POA Transfers)

(continues on reverse side)

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3. The water right was used for: (e.g., crops, pasture, etc.): Crops - marijuana
4. I understand that if I do not attach one or more of the documents shown in the table below to support the above statements, my application will be considered incomplete.

Catherine Justice
Signature of Affiant

08/18/2025
Date

Signed and sworn to (or affirmed) before me this 18th day of Aug., 2025.

MICHELLE SHULER
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074016585
MY COMMISSION EXPIRES 04/26/2027

Michelle Shuler
Notary Public for Oregon Colorado FW

My Commission Expires: 04/26/2027

Original

Supporting Documents	Examples
☐ Copy of a water right certificate that has been issued within the last five years. (not a remaining right certificate)	Copy of confirming water right certificate that shows issue date
☐ Copies of receipts from sales of irrigated crops or for expenditures related to use of water	• Power usage records for pumps associated with irrigation use • Fertilizer or seed bills related to irrigated crops • Farmers Co-op sales receipt
☐ Records such as FSA crop reports, irrigation district records, NRCS farm management plan, or records of other water suppliers	• District assessment records for water delivered • Crop reports submitted under a federal loan agreement • Beneficial use reports from district • IRS Farm Usage Deduction Report • Agricultural Stabilization Plan • CREP Report
☒ Aerial photos containing sufficient detail to establish location and date of photograph <u>irrigated by pump in river</u> <u>Powered by gas generator</u> <u>to 2000 gal. holding</u> <u>tank on the lot - crops</u> <u>hand watered by garden</u> <u>nose.</u>	Multiple photos can be submitted to resolve different areas of a water right. If the photograph does not print with a "date stamp" or without the source being identified, the date of the photograph and source should be added. Sources for aerial photos: OSU - www.oregonexplorer.info/imagery OWRD - www.wrd.state.or.us Google Earth - earth.google.com TerraServer - www.terraserver.com
☐ Approved Lease establishing beneficial use within the last 5 years	Copy of instream lease or lease number

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Oregon Health Authority
Oregon Medical Marijuana Program
PO Box 14450
Portland, OR 97293-0450
www.healthoregon.org/ommp
ommp.info@dhsosha.state.or.us

Oregon Medical Marijuana Program PATIENT CARD INFORMATION

Patient Name: CATHERINE G JUSTICE
File: 333003
Registration: 689782
DOB: [REDACTED]
Address: [REDACTED]

Patient Card No: 1534484
Printed/Issued: 7/14/2021
Effective: 10/29/2020
Expiration: 10/29/2021

Caregiver Name:
DOB:
Address:

Grower Name: [REDACTED]
DOB: [REDACTED]

Grow Site: 254 BURCH DR
CAVE JUNCTION, OR 97523

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OCT 06 2025
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Frost Gulch

Burch Dr

201 ft

1985

Google Earth

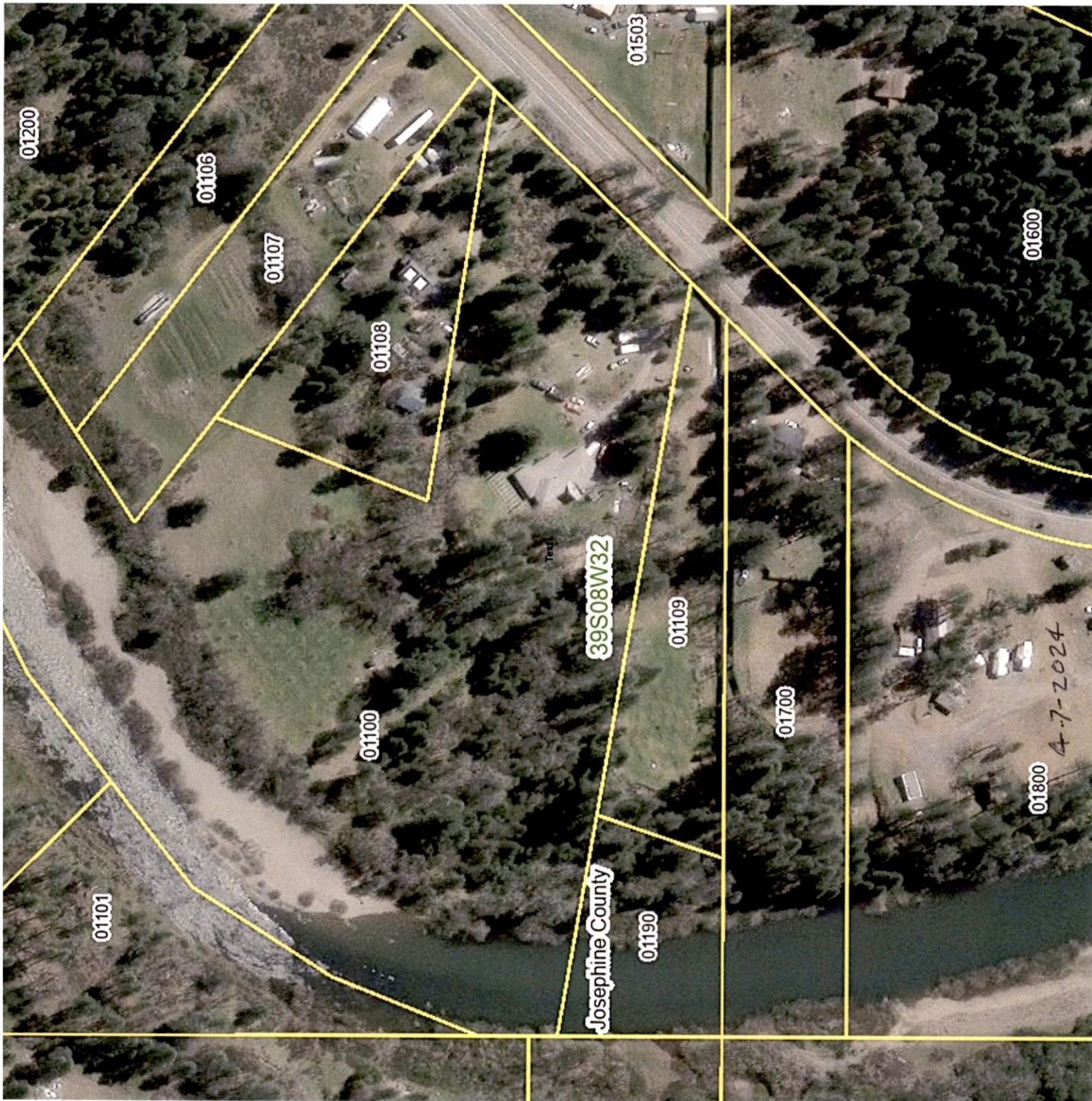
Imagery Date: 6/21/2021 lat 42.129757° lon -123.671103° elev 0 ft eye alt 869 ft

Image © 2025 Maxar Technologies

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Application for Water Right Transfer Evidence of Use Affidavit



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

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Please print legibly or type. Be as specific as possible. Attach additional pages if you need more spacing.
Supporting documentation must be attached.

State of Oregon)
) ss

County of JOSEPHINE

I, GEORGE WU, in my capacity as OWNER'S HUSBAND,

mailing address 27651 REDWOOD HIGHWAY, CAVE JUNCTION, OR 97523

telephone number (571)250-9518, being first duly sworn depose and say:

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1. My knowledge of the exercise or status of the water right is based on (check one):

☒ Personal observation ☐ Professional expertise

2. I attest that:

☐ Water was used during the previous five years on the **entire** place of use for
Certificate # ____; **OR**

☒ My knowledge is specific to the use of water at the following locations within the last five years:

Certificate #	Township		Range		Mer	Sec	¼ ¼		Gov't Lot or DLC or Tax Lot	Acres (if applicable)
95711	39	S	8	W	Wi	32	NW	SE	1109	0.5
95711	39	S	8	W	Wi	32	NE	SW	1109	0.8

OR

- ☐ Confirming Certificate # ____ has been issued within the past five years; **OR**
- ☐ Part or all of the water right was leased instream at some time within the last five years. The
instream lease number is: ____ (Note: If the entire right proposed for
transfer was not leased, additional evidence of use is needed for the portion not leased instream.); **OR**
- ☐ The water right is not subject to forfeiture and documentation that a presumption of forfeiture for non-use
would be rebutted under ORS 540.610(2) is attached.
- ☐ Water has been used at the actual current point of diversion or appropriation for more than
10 years for Certificate # ____ (For Historic POD/POA Transfers)

(continues on reverse side)

14749 -

3. The water right was used for: (e.g., crops, pasture, etc.): PASTURE GRASSES AND NATIVE PLANTS

4. I understand that if I do not attach one or more of the documents shown in the table below to support the above statements, my application will be considered incomplete.

Jingyu Wu

Signature of Affiant

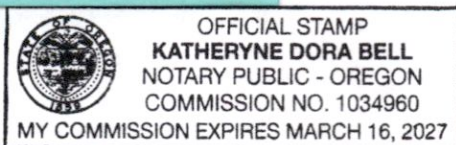
Received
OCT 06 2025

9/11/2025

Date

OWRD

Signed and sworn to (or affirmed) before me this 11 day of September, 2025.



Katherine Dora Bell
Notary Public for Oregon

My Commission Expires: March 16, 2027

Supporting Documents	Examples
☐ Copy of a water right certificate that has been issued within the last five years. (not a remaining right certificate)	Copy of confirming water right certificate that shows issue date
☐ Copies of receipts from sales of irrigated crops or for expenditures related to use of water	• Power usage records for pumps associated with irrigation use • Fertilizer or seed bills related to irrigated crops • Farmers Co-op sales receipt
☐ Records such as FSA crop reports, irrigation district records, NRCS farm management plan, or records of other water suppliers	• District assessment records for water delivered • Crop reports submitted under a federal loan agreement • Beneficial use reports from district • IRS Farm Usage Deduction Report • Agricultural Stabilization Plan • CREP Report
☒ Aerial photos containing sufficient detail to establish location and date of photograph. My wife Wenron Wang purchased this property on August 26, 2025. Since then, I have used a new 2HP pump and hoses to irrigated 1.3 acres of existing water rights in two fields during September 2025 to prepare for sowing native seeds. The previous owner Catherine Justice had irrigated that area from 2021 for licensed medical marijuana grown for seven licensed patients and some pasture land.	Multiple photos can be submitted to resolve different areas of a water right. If the photograph does not print with a "date stamp" or without the source being identified, the date of the photograph and source should be added. Sources for aerial photos: OSU – www.oregonexplorer.info/imagery OWRD – www.wrd.state.or.us Google Earth – earth.google.com TerraServer – www.terra-server.com
☐ Approved Lease establishing beneficial use within the last 5 years	Copy of instream lease or lease number

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14749 - SEP 15 2025

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Google Earth

eye alt 869 ft

0 ft

elev

lat 42.129757° lon -123.671103°

Imagery Date: 7/18/2023

Image © 2025 Airbus

Frost Gulch

201 ft

1985

OCT 06 2025

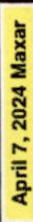
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SEP 15 2025

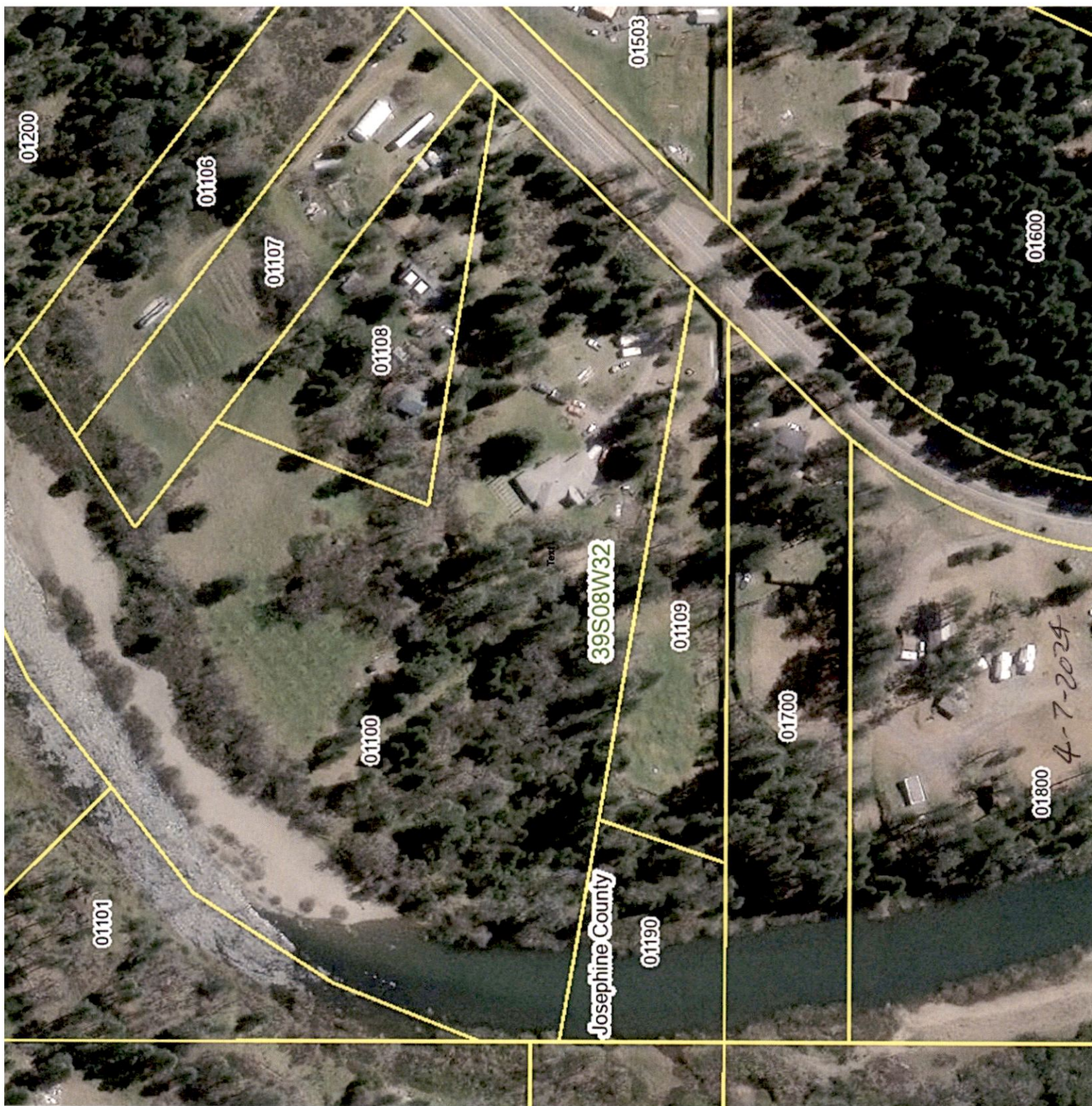
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Point of Diversion Transfer for Water Certificate #95711

1.0 INTRODUCTION

Wenrong Wang owns properties on the Illinois River with Point of Diversion (POD) for Water Right C#95711 and a commercial nursery (Nursery) at 27651 Redwood Highway. Wenrong Wang requests a transfer of the POD to a Point of Appropriation (POA) at a groundwater well at the Nursery.

Oregon Administrative Rules (OAR) 690-380-2130(2)(e) requires a Registered Geologist to evaluate impacts of the transfer if the POA is greater than 1000 feet upstream or downstream of the original POD or greater than 500 feet from the source. This report was prepared by Rick Gates, a Registered Geologist employed by R & D Environmental Solutions, LLC. (R&D) and includes information regarding the physical setting of the site including groundwater and surface water hydrology, surrounding groundwater uses, and potential impacts to downgradient groundwater receptors.

2.0 LOCATION AND DESCRIPTION

Point of Diversion/Place of Use

Tax lot 1190 in Section 32-C of Township 39 South and Range 8 West (390832-1190) is a 0.92 acre parcel located approximately 2.2 miles south of the Cave Junction City Limits. The property is used for agricultural purposes. Approximately half of the parcel lies within the active channel of the West Fork of the Illinois River. A 2.0 horsepower pump on the east bank of the channel is a Point of Diversion for Water Certificate 95711. The water is used to irrigate the inland portion of the parcel and provide irrigation for the adjacent parcel. This property has no well or septic system.

Tax lot 1109 in Section 32-C of Township 39 South and Range 8 West (390832-1109) is a 1.69 acre parcel bordering 390832-1190 on the east. The street address is 254 Burch Drive. The parcel is identified as a Place of Use for Water Certificate 95711. This property has no well or septic system.

Point of Appropriation

The Point of Appropriation is a groundwater well listed in WRD records as JOSE#62064. The well is located on property described by the Josephine County Assessor as Tax Lot 100 in Section 28-C of Township 39 South and Range 8 West (390828C-100). The parcel is approximately 31.7 acres. The street address is 27651 Redwood Highway. The Property is currently operated as a Nursery.

The parcel has two groundwater wells; both are listed in Oregon Water Resources Department (WRD) records. Well #1 is listed as JOSE#58047. This well is inside a wellhouse located at Lat/Long 42.14514/-123.65499. Initial construction information is not available for the well. The well was altered in August 2008 by addition of casing at the top. The well was 134 feet deep.

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Well #2 is listed in WRD records as JOSE#62064. This well is located at Lat/Long 42.14420 / -123.65336. The well was drilled to 180 feet in June 2025. Water was encountered in "Grey Blue Clay Mixed Gravel Sand" at a depth of 38 feet. The static level rose to 13 feet. The yield was estimated to be 28 gallons per minute. A meter was installed to measure water use.

Water for the Nursery and associated commercial use is provided by commercial water vendors and stored in aboveground storage tanks (ASTs). Additional water collected from roof runoff is stored in ASTs. Water and nutrients are pumped into growing areas. Discharge from growing activities is collected and recycled via storage tanks and pumps. Water from dehydrators is also collected and recycled.

The Site is connected to an onsite septic tank and leach field. No water or liquid waste from commercial activities is discharged to the septic system.

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3.0 PHYSICAL SETTING

Groundwater Hydrology

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Review of surrounding groundwater well reports indicate groundwater is hosted in Quaternary alluvial gravels. The unit is described in "Geologic Map of Josephine County, Oregon", O-04-13, DOGAMI (2004) as "Stream-deposited sand, silt, and gravel". In this area, the units are interfingering with limited vertical and horizontal extent. Typically, groundwater in this area is shallow and partially confined with generally high yields.

Water level monitoring of JOSE#56240 by WRD indicates the alluvial aquifer is hydrologically connected to nearby surface water bodies (e.g., West Fork Illinois River) based on the association of groundwater levels in the well with precipitation amounts and stream flows. The WRD well is located approximately 1.5 miles south-southeast of the onsite well JOSE#62064 and completed in similar material. Aquifer characteristics are concluded to be similar.

Groundwater is the sole source of drinking water for the area. A search of WRD records for groundwater wells in Section 28, Township 39 S, Range 8 W identified 97 domestic wells, including the two onsite wells. Groundwater flow is anticipated to follow surface topography, flowing north-northwest towards the union of the East and West Forks of the Illinois River. The closest recorded domestic wells are located 500 to 800 feet south of the onsite well. The closest domestic wells downgradient of the site are located 800 to 1200 feet northwest of the onsite well.

Surface Water Hydrology

The POD is located on the West Fork Illinois River. Surface flows are anticipated to range from 356 to 14.8 cubic feet per minute. The East and West Forks meet at a location approximately 2.3 miles north of the POD. The Illinois River is a tributary of the Rogue River, which discharges to the Pacific Ocean at Gold Beach. The Illinois River and Rogue River are designated Scenic Waterways by the State.

4.0 TRANSFER IMPACTS

The Owner requests transfer of surface water from the current POD on Property ID 390832-1190 under Certificate #95711 to a POA at Well #2 (JOSE#62064) on Property ID 390828C-100. The POD is approximately 1.24 miles (6,600 feet) southwest of the proposed POA.

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Surface Water Impacts

The Owner will cease pumping surface water from the POD on 390832-1190. POD' is the point along the river closest to the POA well. POD' is 1.25 miles northwest (1.84 miles downstream) of the current POD and 0.57 miles west of the proposed POA. The location of POD' may be seen on the General Location Map attached to this document. Surface water flow from the POD to POD' will increase by an estimated 0.0267 cubic feet per second.

Recharge to portions of the river downstream of POD' may be reduced by the volume extracted at the POA, however the impact will be distributed along a the length of the river, with no reduction in flow below current levels. Downstream surface water users are unlikely to suffer injury due to transfer to the proposed POA.

Groundwater Impacts

Groundwater Use Application G-19387 was submitted to WRD on August 8, 2023 for a proposed groundwater well at the Nursery. WRD prepared a **Groundwater Application Review Summary Form** dated 2/27/2024. WRD included a preliminary evaluation of impacts to surrounding wells with a Theis Interference Analysis on page 11. The Theis Time-Drawdown Worksheet was based on a pumping rate of 0.0557 cubic feet per second (25.0 gallons per minute) and a pumping time of 365 days. Results were calculated and plotted for several transmissivity and storativity values. Results indicated maximum drawdown of approximately 0.3 feet at a distance of 1700 feet. WRD found "insufficient evidence to suggest that injury would occur to existing groundwater users in the immediate vicinity"

The current Transfer requests a reduced pumping rate of 0.0267 cubic feet per second (12.0 gallons per minute) and a reduced pumping period of 214 days (April 1st to October 31st). Nearby groundwater users are unlikely to suffer injury due to transfer to the proposed POA.

Total Water Use

Total groundwater use will not be increased under this transfer. The proposed POA is a well equipped with a meter to monitor water use and assure compliance. Groundwater extraction will be limited to approximately 1,480,000 gallons for the irrigation period.

5.0 EVALUATION

A review of available information identified no potential injury to downstream surface water users or existing groundwater users. No increase in water use will occur due to monitoring of water use at the proposed POA.

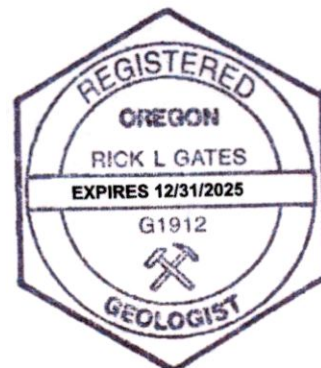
This report was prepared under the supervision of the undersigned Registered Geologist, who accepts responsibility for the content.

Rick Gates

Rick Gates,
Registered Geologist G1912

September 2, 2025

Date



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SEP 15 2025
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OCT 06 2025
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6.0 LIMITATIONS AND EXCEPTIONS OF INVESTIGATION

The services described in this report were performed in a manner consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated.

We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

7.0 ATTACHMENTS

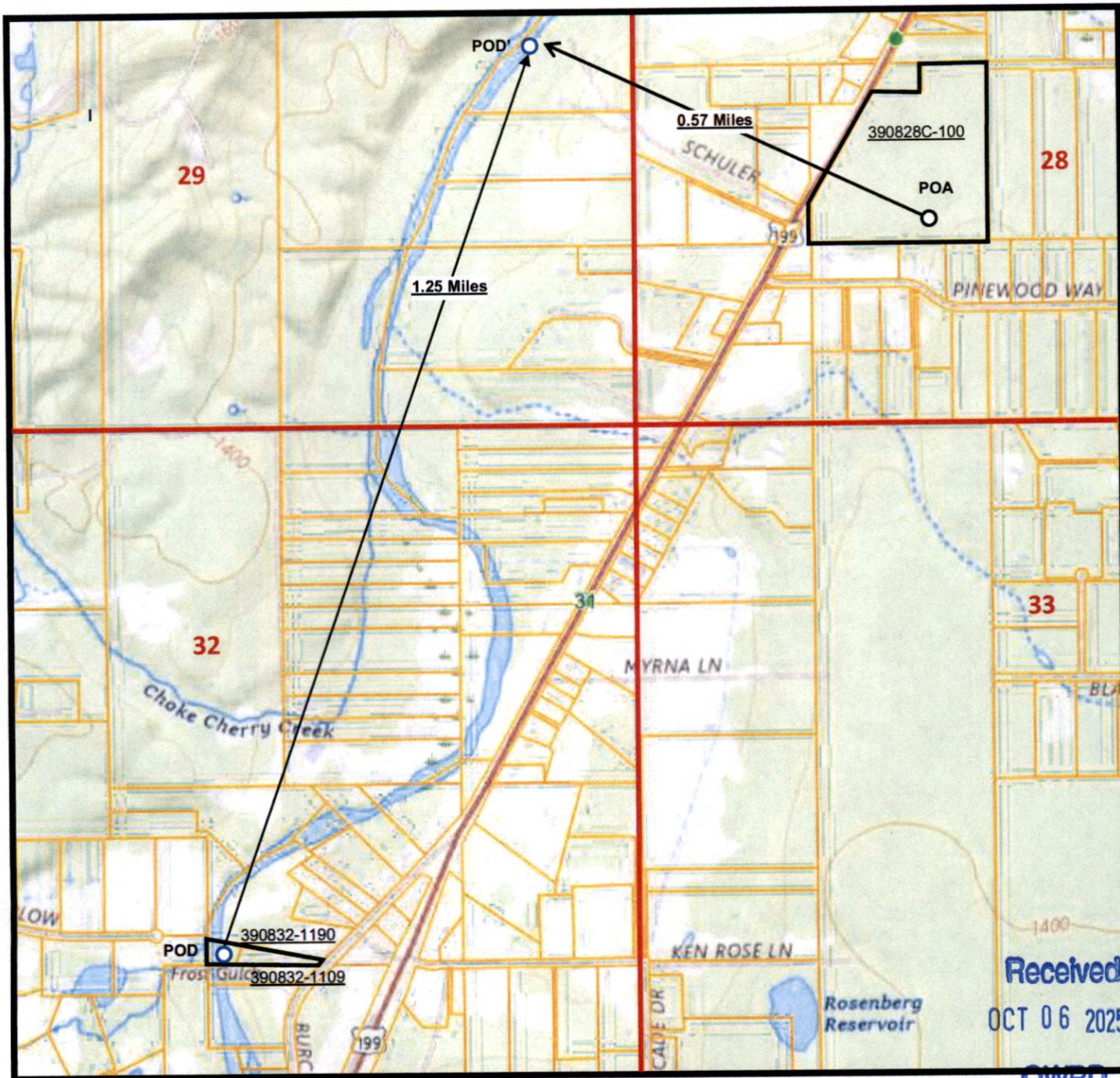
The following attached documents are referenced in this report:

General Location Map

Water Well Reports: JOSE#62064, JOSE#56240

Groundwater Application Review Summary Form, Application # G-19387

Received
SEP 15 2025
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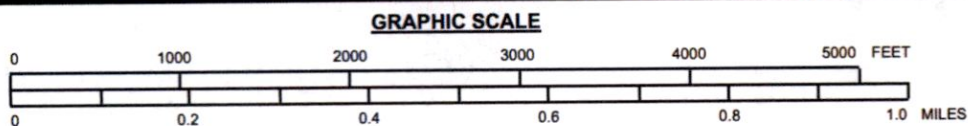


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SEP 15 2025

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Water Rights C#95711 Transfer Josephine County, Oregon	
General Location Map	
 R & D ENVIRONMENTAL SOLUTIONS, LLC 1439 NE 6th Street, Suite 2 Grants Pass, OR 97526 (541) 471-7008	Scale: See Graphic Date: September 1, 2025 Prepared by: RLG Source: Josephine County GIS, Site mapping File: C: WR\C95711\Site.doc



Notes

- POA** Proposed Point of Appropriation
- POD** Current Point of Diversion
- POD'** Closest downstream point to POA well
- Section Boundary (T38 South, R8 West)
- Subject properties boundary
- Tax Lot Boundary

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WATER SUPPLY WELL REPORT - Map with location identified must be attached and shall include an approximate scale and north arrow

JOSE 62064

6/27/2025

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SEP 15 2025

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SEP 06 2025

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Map of Hole

STATE OF OREGON WELL LOCATION MAP

This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department

725 Summer St NE, Salem OR 97301

(503)986-0900



LOCATION OF WELL

Latitude: 42.14420000 Datum: WGS84

Longitude: -123.65329000

Township/Range/Section/Quarter-Quarter Section:

WM39.00S8.00W28NESW

Address of Well:

27651 REDWOOD HWY, CAVE JUNCTION OR 97523

Well Label: 157604

Printed: June 27, 2025

DISCLAIMER: This map is intended to represent the approximate location the well. It is not intended to be construed as survey accurate in any manner.

Provided by well constructor



14749 -

Jose
56240

RECEIVED
JAN 3 2005

* Revised * 2/2/06

Instructions for completing this report are on the last page.

(1) LAND OWNER
Name Jim Hirsch Well Number 170550
Address P.O. Box 84
City Cave Junction State OR Zip 97523

(2) TYPE OF WORK ☒ New Well
☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment ☐ Conversion

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger ☐ Cable Mud
☐ Other

(4) PROPOSED USE
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION Special Construction: ☐ Yes ☒ No
Depth of Completed Well 300' ft.
Expansive used: ☐ Yes ☒ No Type _____ Amount _____

BORE HOLE				SEAL			
Diameter	From	To	Material	From	To	Sacks or Pounds	
10"	0'	20'	Bentonite	0'	20'	25 Sacks	
8"	20'	300'					

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other Bentonite Dry Poured
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

CASING/LINER							
Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 8"	0'	200'	250	☒	☐	☒	☐
Liner:				☐	☐	☐	☐

Drive Shoe used ☐ Inside ☒ Outside ☐ None
Final location of shoe(s) 200'

(7) PERFORATIONS/SCREENS							
☒ Perforations Method <u>Holte</u>				☐ Screens Type _____ Material _____			
From	To	Slot Size	Number	Diameter	Tele/pipe size	Casing	Liner
80'	100'	3/16"	240			☒	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian
Yield gal/min 100 GPM Drawdown 100' Drill stem at 1 1/2 Hrs

Temperature of water 62 Depth Artesian Flow Found _____
Was a water analysis done? ☒ Yes By whom Driller & Ivan OWRD
Did any strata contain water not suitable for intended use? YES ☐ Too little
☒ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata: 185' - 300' Sealed off with cement

(9) LOCATION OF WELL (legal description)
County Josephine
Tax Lot 2101 Lot _____
Township 30 S Range 8 W WM
Section 34 SE 1/4 SW 1/4
Lat _____ or _____ (degrees or decimal)
Long _____ or _____ (degrees or decimal)
Street Address of Well (or nearest address) 7101 Rockydale Rd Cave Junction, OR. Ground Water Study Well for OWRD/VSWC

(10) STATIC WATER LEVEL
18' ft. below land surface. Date 12/18/04
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES			
From	To	Estimated Flow Rate	SWL
55'	80'	4 GPM	
80'	100'	100 GPM	18'
113'	140'	35 GPM	
185'	190'	4 GPM	

(12) WELL LOG			
Material	From	To	SWL
Brown Clay & Fine & Med. Gravel	0'	40'	
Dark Brown Clay w/Sand & Grvl.	40'	110'	18'
Dark Blue Clay & Gravel	110'	113'	
Blue Clay w/Gravel & Sand	113'	200'	
Grey Clay w/Gravel & Boulders	200'	230'	
Brown Clay w/Gravel & Boulders	230'	243'	
Blue Clay & Gravel	243'	248'	
Blue Clay w/Gravel & Sand	248'	300'	
Water Zone Sealed by Casing	55'	80'	
Water Zone Sealed by Casing	113'	140'	
Portland Cement was pumped under pressure with a Tremie	140'	300'	
Pipe 20 Sacks. Tapped off with 13 more sacks to a depth of 30'.			
Drilled out to 140'	0'	140'	
Date Started <u>11/23/04</u> Completed <u>12/3/04</u>			

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____ Date _____
Signed _____

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1835 Date 12/30/04
Signed Norman A. Clouser
CLouser Drilling LLC

RECEIVED ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER 06/16/2004
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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

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JOSE 56240

WATER RESOURCES DEPT
SALEM, OREGON

WELL ID. # L 73821

START CARD # 170350

Instructions for completing this report are on the last page of this form.

(1) LAND OWNER
Name Jim Hinds
Address P.O. Box 84
City Cave Junction State OR Zip 97523
Well Number 170350

(2) TYPE OF WORK ☒ New Well
☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment ☐ Conversion

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger ☐ Cable Mud
☐ Other

(4) PROPOSED USE
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION Special Construction: ☐ Yes ☒ No
Depth of Completed Well 300' ft.
Explosives used: ☐ Yes ☒ No Type _____ Amount _____

BORE HOLE				SEAL			
Diameter	From	To	Material	From	To	Sacks or Pounds	
10"	0'	20'	Bentonite	0'	20'	25 Sacks	
6"	20'	300'					

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other Bentonite Dry Poured
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER							
Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	0'	200'	.250	☒	☐	☒	☐
Liner:				☐	☐	☐	☐

Drive Shoe used ☐ Inside ☒ Outside ☐ None
Final location of shoe(s) 200'

(7) PERFORATIONS/SCREENS							
☒ Perforations Method <u>Holte</u>				☐ Screens Type _____ Material _____			
From	To	Slot Size	Number	Diameter	Tel./pipe size	Casing	Liner
80'	100'	3/16x1/4	240			☒	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian
Yield gal/min 100 GPM Drawdown _____ Drill stem at _____ Time 1 1/2 Hrs

Temperature of water 52 Depth Artesian Flow Found _____
Was a water analysis done? ☒ Yes By whom Driller & Ivan OWRD
Did any strata contain water not suitable for intended use? YES ☐ Too little
☒ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____
Depth of strata: 185'-300' Sealed off with cement

(9) LOCATION OF WELL (legal description)

County Josephine
Tax Lot 2102 Lot _____
Township 39 S Range 8 W WM
Section 34 SE 1/4 SW 1/4
Lat _____ " or _____ (degrees or decimal)
Long _____ " or _____ (degrees or decimal)

Street Address of Well (or nearest address) 3370 Rockdale Rd Cave Junction, OR. Ground Water Study Well for OWRD/IVSWCD

(10) STATIC WATER LEVEL
18' ft. below land surface. Date 12/19/04
_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES

From	To	Estimated Flow Rate	SWL
55'	60'	4 GPM	
80'	100'	100 GPM	18'
113'	140'	35 GPM	
185'	190'	4 GPM	

(12) WELL LOG

Material	From	To	SWL
Brown Clay & Fine & Med. Gravel	0'	40'	
Dark Brown Clay w/Sand & Grvl.	40'	110'	18'
Dark Blue Clay & Gravel	110'	113'	
Blue Clay w/Gravel & Sand	113'	205'	
Grey Clay w/Gravel & Boulders	205'	235'	
Brown Clay w/Gravel & Boulders	235'	243'	
Blue Clay & Gravel	243'	245'	
Blue Clay w/Gravel & Sand	245'	300'	
Water Zone Sealed by Casing	55'	60'	
Water Zone Sealed by Casing	113'	140'	
Portland Cement was pumped under pressure with a Tremie	140'	300'	
Pipe 20 Sacks. Topped off with 13 more sacks to a depth of 30'.			
Drilled out to 140'	0'	140'	
Date Started <u>11/29/04</u> Completed <u>12/3/04</u>			

(unbonded) Water Well Constructor Certification

I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number _____ Date _____

Signed _____

(bonded) Water Well Constructor Certification

I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1835 Date 12/30/04

Signed Ken A. Clouser
Clouser Drilling LLC

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SALEM, OREGON

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Groundwater Application Review Summary Form

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Application # G- 19387

GW Reviewer Grayson Fish Date Review Completed: 2/27/2024

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Summary of GW Availability and Injury Review:

☐ Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.

Summary of Potential for Substantial Interference Review:

☐ There is the potential for substantial interference per Section C of the attached review form.

Summary of Well Construction Assessment:

☐ The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

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WATER RESOURCES DEPARTMENT

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MEMO

February 27, 2024

TO: Application G- 19837

FROM: GW: Grayson Fish
(Reviewer's Name)

SUBJECT: Scenic Waterway Interference Evaluation

- ☒ YES The source of appropriation is hydraulically connected to a State Scenic Waterway or its tributaries
- ☐ NO

- ☒ YES Use the Scenic Waterway Condition (Condition 7J)
- ☐ NO

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- ☒ Per ORS 390.835, the Groundwater Section is **able** to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below
- ☐ Per ORS 390.835, the Groundwater Section is **unable** to calculate ground water interference with surface water that contributes to a scenic waterway; **therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway**

DISTRIBUTION OF INTERFERENCE

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in Illinois River Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083

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PUBLIC INTEREST REVIEW FOR GROUNDWATER APPLICATIONS

TO: Water Rights Section
FROM: Groundwater Section
SUBJECT: Application G- 19387

Date 2/27/2024
Reviewer's Name Grayson Fish
Supersedes review of _____
Date of Review(s) _____

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PUBLIC INTEREST PRESUMPTION: GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525. Department staff review groundwater applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. This review is based upon available information and agency policies in place at the time of evaluation.*

A. GENERAL INFORMATION: Applicant's Name: Wenrong Wang County: Josephine

A1. Applicant(s) seek(s) 0.0557 cfs from 1 well(s) in the Rogue Basin,
_____ subbasin

A2. Proposed use Nursery Seasonality: Year-round

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

POA Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	PROP	2	Alluvium	0.0557	39S/8W-28 NE-SW	1100' S and 300' W fr C1/4 cor S 28
2						

* Alluvium, CRB, Bedrock

POA Well	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Drawdown (ft)	Test Type
1	120	--	+1 - 100	--	--	--	--	--
2								

POA Well	Land Surface Elevation at Well (ft amsl)	Depth of First Water (ft bls)	SWL (ft bls)	SWL Date	Reference Level (ft bls)	Reference Level Date
1	1345	--	25 - 35	--	--	--
2						

Use data from application for proposed wells.

A4. **Comments:** All construction details are proposed. Static water level is estimated from nearby well logs.
The applicant proposes to construct one well (Well #2) to appropriate groundwater for nursery use at a rate of 0.0557 cfs. The proposed POA is located approximately 1.5 miles south of Cave Junction.

A5. ☒ **Provisions of the** Rogue (OR 690-515) Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water ☐ are, or ☒ are not, activated by this application.
(Not all basin rules contain such provisions.)
Comments: _____

A6. ☐ **Well(s) #** _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
Name of administrative area: _____
Comments: _____

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OWRD**B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070**B1. **Based upon available data**, I have determined that groundwater* for the proposed use:

- a. ☐ is over appropriated, ☒ is not over appropriated, or ☐ cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b. ☐ will not or ☐ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
- c. ☐ will not or ☐ will likely to be available within the capacity of the groundwater resource; or
- d. ☒ will, if properly conditioned, avoid injury to existing groundwater rights or to the groundwater resource:
- ☒ The permit should contain condition #(s) 7J (Scenic); 7C (7-yr SWL); Medium Water-use Reporting ;
 - ☐ The permit should be conditioned as indicated in item 2 below.
 - ☐ The permit should contain special condition(s) as indicated in item 3 below;

- B2. a. ☐ **Condition** to allow groundwater production from no deeper than _____ ft. below land surface;
- b. ☐ **Condition** to allow groundwater production from no shallower than _____ ft. below land surface;
- c. ☐ **Condition** to allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
- d. ☐ **Well reconstruction** is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): _____

- B3. **Groundwater availability remarks:** The applicant's proposed POA (Well #2) will likely source groundwater from Quaternary aged river terrace sediments within the Illinois River valley (DOGAMI). OWRD observation well JOSE 56240 located approximately 1.5 miles to the southeast and similarly sources water from quaternary alluvium shows relatively stable spring groundwater levels over time indicating that the groundwater resource is not over-appropriated. Recorder data from JOSE 56240 suggests that the shallow alluvial aquifer is efficiently connected to surface water.

The closest groundwater uses to the applicants proposed POA are likely exempt domestic wells located on nearby tax lots approximately 300 to 800 feet to the south. Given the source aquifer (alluvial) and the low requested rate by the applicant, there is insufficient evidence to suggest that injury would occur to existing groundwater users in the immediate vicinity.

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C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**C1. 690-09-040 (1): Evaluation of aquifer confinement:**

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Alluvium of the Illinois Valley	☒	☐
		☐	☐

Basis for aquifer confinement evaluation: Static water levels reported on drillers logs in the vicinity of the applicant's proposed POA are generally above the level at which water is first encountered in the borehole, suggesting confined aquifer conditions. However, it should be noted that confinement is likely localized based on the presence of fine-grained sediments and does not represent a laterally continuous confining layer that would significantly limit the connection of groundwater to surface water.

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	East Fork Illinois River	1,310	1,290	2,600	☒	☐	☐	☐	☒
1	2	West Fork Illinois River	1,310	1,290	2,900	☒	☐	☐	☐	☒
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: GW elevations are estimated to be above those of SW elevations suggesting groundwater is flowing towards and discharging to surface water.

Water Availability Basin the well(s) are located within: W FK ILLINOIS R > - AT MOUTH (ID# 70997)
And Hydraulically connected to: E FK ILLINOIS R > - AT MOUTH (ID# 70980)

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water (SW) source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that SW source, not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
1	1	☐	☐	IS70980A	54.0	☐	41.5	☐	<<25%	☐
1	2	☐	☐	IS70997A	26.1	☐	16.8	☐	<<25%	☐
		☐	☐			☐		☐		☐

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- C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐

Comments: Interference was estimated using the Hunt (2003) stream-depletion model. Results attached.

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- C4a. **690-09-040 (5):** Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells														
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
		%	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS														
Interference CFS														
Distributed Wells														
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
		%	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS														
Interference CFS														
		%	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS														
Interference CFS														
(A) = Total Interf.														
(B) = 80 % Nat. Q														
(C) = 1 % Nat. Q														
(D) = (A) > (C)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Basis for impact evaluation: No hydraulically connected surface water sources at distances greater than one mile were considered for this review.

- C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

- C5. ☐ If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or groundwater use under this permit can be regulated if it is found to substantially interfere with surface water:

- ☐ The permit should contain condition #(s) _____;
- ☐ The permit should contain special condition(s) as indicated in "Remarks" below:

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- C6. **SW / GW Remarks and Conditions:** The applicants proposed POA Well #2 sources water from an alluvial aquifer found to be hydraulically connected to the East and West Forks of the Illinois River at distances less than 1 mile. A preponderance of evidence does not exist to suggest that there is a potential for substantial interference.

The Illinois River is designated as a State Scenic Waterway and is tributary to the Rogue Scenic Waterway.

References Used:

Hunt, B. 2003. *Unsteady Stream Depletion when Pumping from a Semiconfined Aquifer*. Journal of Hydrologic Engineering. Vol 8(1), pp 12-19

Murray, R.B., unpublished. *Compilation and synthesis of geologic mapping for the upper Illinois River basin, Josephine and Curry Counties, Oregon*: Portland, Oreg., Oregon Dept. of Geology and Mineral Industries, scale 1:24,000.
<https://gis.dogami.oregon.gov/maps/geologicmap/>

OWRD Well Log Database – Accessed 2/27/2024

OWRD Groundwater Information System – Accessed 2/27/2024

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: _____ Logid: _____

D2. **THE WELL does not appear to meet current well construction standards based upon:**

- a. ☐ review of the well log;
b. ☐ field inspection by _____;
c. ☐ report of CWRE _____;
d. ☐ other: (specify) _____

D3. **THE WELL construction deficiency or other comment is described as follows:** _____

D4. ☐ Route to the Well Construction and Compliance Section for a review of existing well construction.

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Water Availability Tables

Water Availability Analysis
Detailed ReportsE FK ILLINOIS R > ILLINOIS R - AT MOUTH
ROGUE BASIN

Water Availability as of 2/27/2024

Watershed ID #: 70980 ([Map](#))

Exceedance Level: 80% ▾

Date: 2/27/2024

Time: 10:06 AM

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	342.00	4.36	338.00	0.00	135.00	203.00
FEB	535.00	4.52	530.00	0.00	135.00	395.00
MAR	556.00	4.54	551.00	0.00	135.00	416.00
APR	498.00	9.11	489.00	0.00	135.00	354.00
MAY	317.00	12.00	305.00	0.00	135.00	170.00
JUN	139.00	15.20	124.00	0.00	80.00	43.80
JUL	66.30	19.10	47.20	0.00	60.00	-12.80
AUG	46.10	16.40	29.70	0.00	54.00	-24.30
SEP	41.50	12.00	29.50	0.00	70.00	-40.50
OCT	47.70	6.47	41.20	0.00	100.00	-58.80
NOV	102.00	3.98	98.00	0.00	135.00	-37.00
DEC	290.00	4.21	286.00	0.00	135.00	151.00
ANN	330,000.00	6,770.00	323,000.00	0.00	78,900.00	249,000.00

Water Availability Analysis
Detailed ReportsW FK ILLINOIS R > ILLINOIS R - AT MOUTH
ROGUE BASIN

Water Availability as of 2/27/2024

Watershed ID #: 70997 ([Map](#))

Exceedance Level: 80% ▾

Date: 2/27/2024

Time: 10:06 AM

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	235.00	0.83	234.00	0.00	170.00	64.20
FEB	352.00	0.85	351.00	0.00	170.00	181.00
MAR	357.00	0.86	356.00	0.00	170.00	186.00
APR	221.00	1.63	219.00	0.00	170.00	49.40
MAY	118.00	2.18	116.00	0.00	149.00	-33.20
JUN	57.30	2.81	54.50	0.00	89.40	-34.90
JUL	28.10	3.55	24.60	0.00	37.00	-12.40
AUG	17.70	3.04	14.70	0.00	26.10	-11.40
SEP	16.80	2.21	14.60	0.00	80.00	-65.40
OCT	20.10	1.15	19.00	0.00	125.00	-106.00
NOV	67.80	0.89	67.10	0.00	170.00	-103.00
DEC	227.00	0.79	226.00	0.00	170.00	56.20
ANN	218,000.00	1,250.00	216,000.00	0.00	91,900.00	134,000.00

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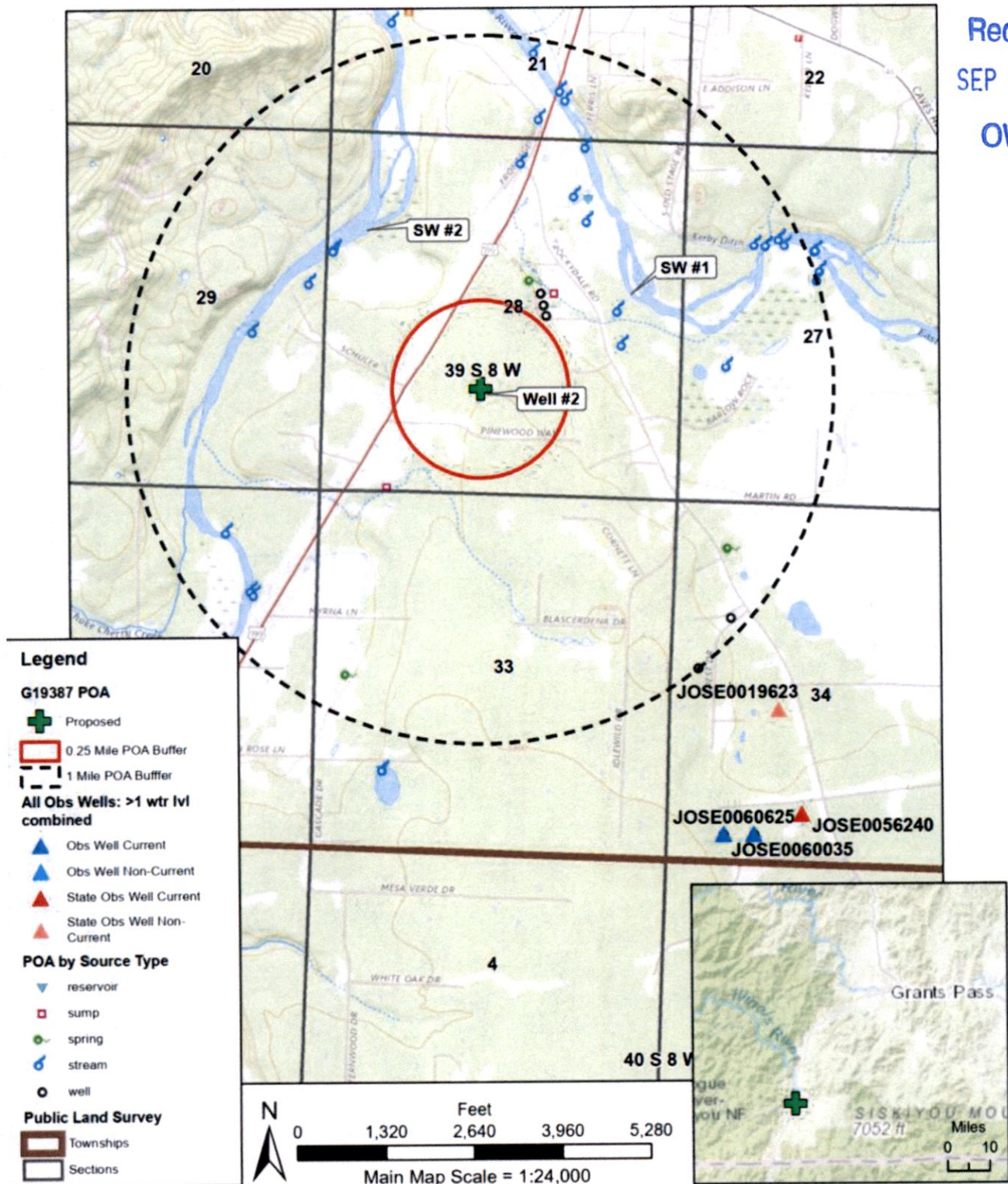
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Well Location Map

G-19387

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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, National Wetlands Inventory, U.S. Department of State

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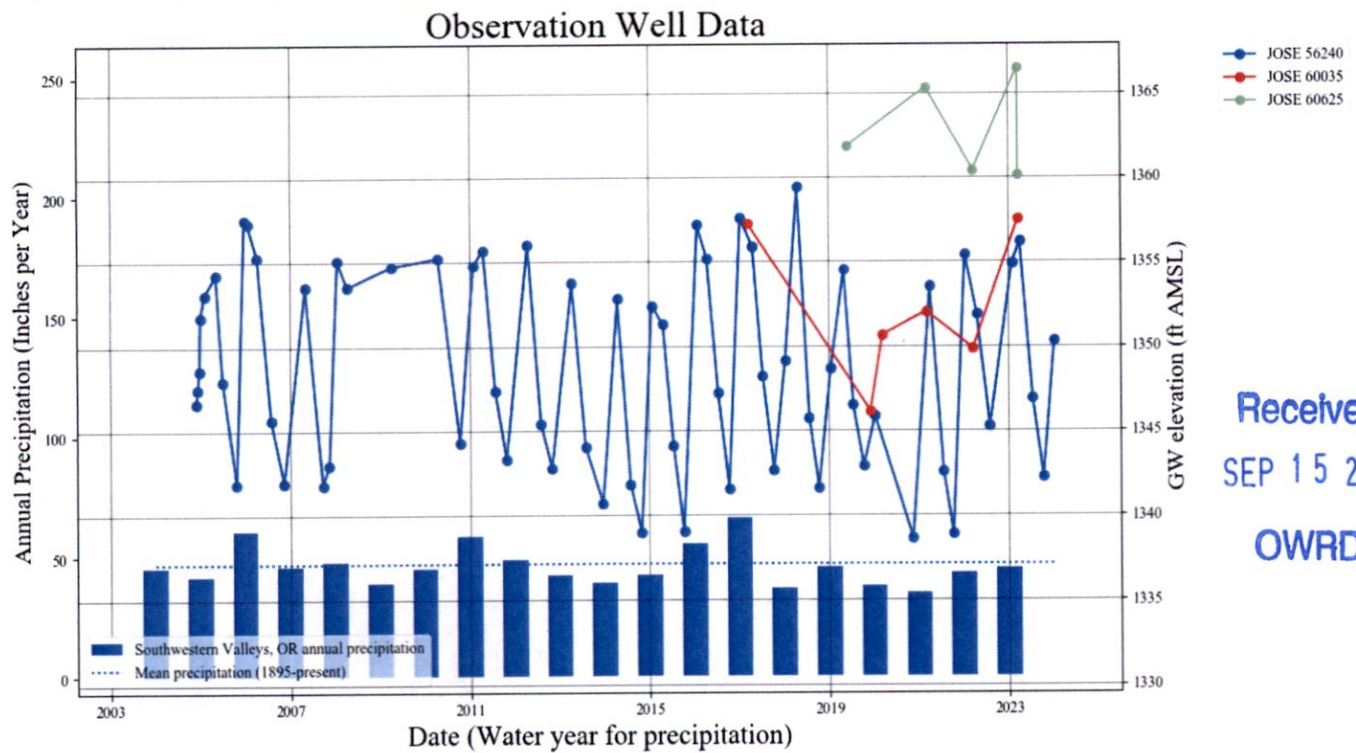
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Water-Level Measurements in Nearby Wells



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Theis Interference Analysis**Theis Time-Drawdown Worksheet** v.5.00

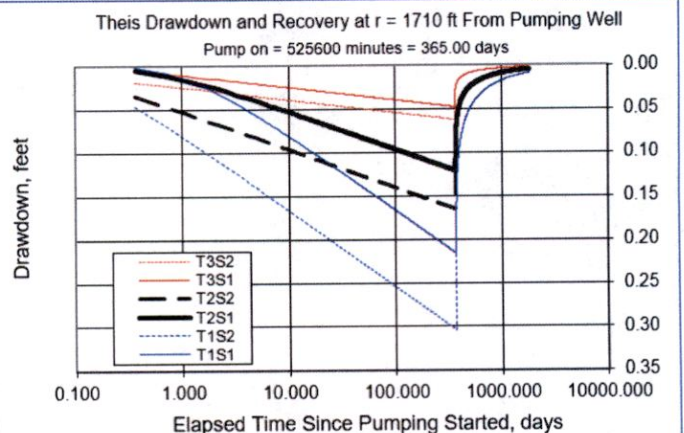
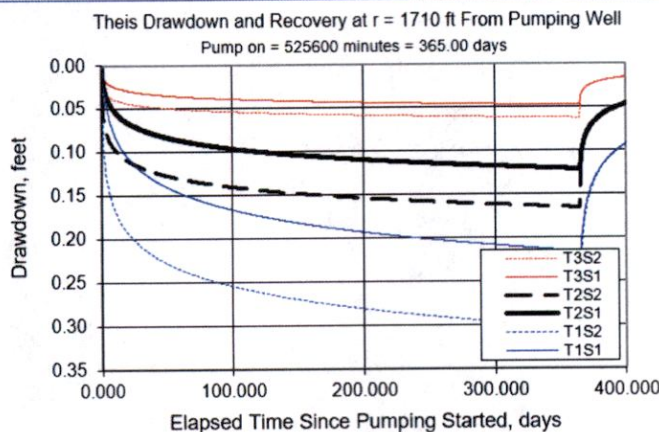
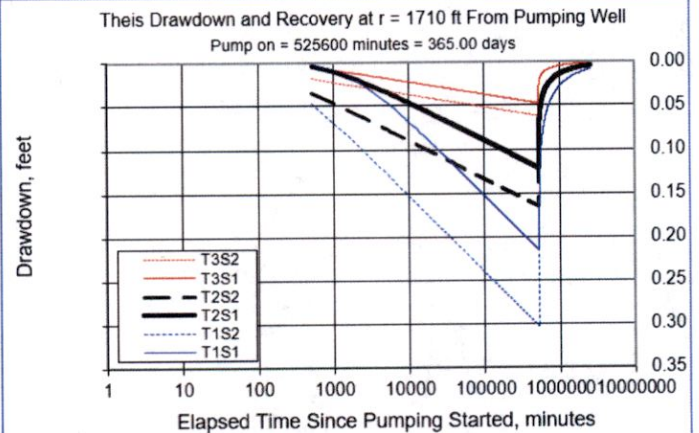
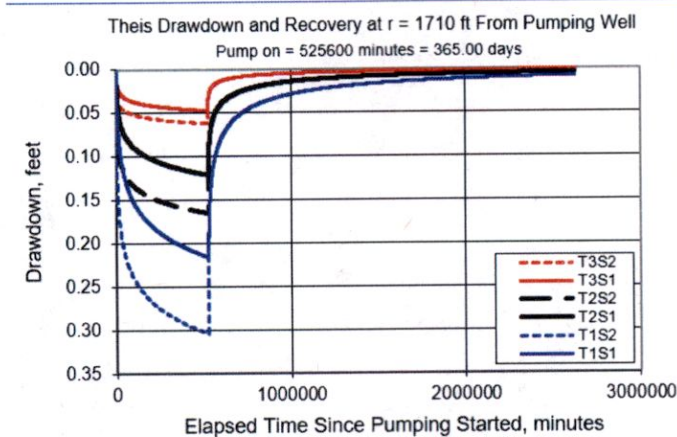
Calculates Theis nonequilibrium drawdown and recovery at any arbitrary radial distance, r , from a pumping well for 3 different T values and radial distance, r , from a pumping well for 3 different T values and 2 different S values.

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		1710		ft	Q conversions
Pumping rate	Q		0.0557		cfs	25.00 gpm
Hydraulic conductivity	K	50	100	300	ft/day	0.06 cfs
Aquifer thickness	b		200		ft	3.34 cfm
Storativity	S 1		0.01			4,812.48 cfd
	S 2		0.001			0.11 af/d
Transmissivity Conversions	T ft2pd	10000	20000	60000	ft2/day	Recalculate
	T ft2pm	6.9444444	13.888889	41.666667	ft2/min	
	T gpd/ft	74800	149600	448800	gpd/ft	

Use the Recalculate button if recalculation is set to manual

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Stream Depletion (Hunt) Model Analysis

Application type:	G
Application number:	19387
Well number:	1
Stream Number:	1
Pumping rate (cfs):	0.0557
Pumping duration (days):	365.0
Pumping start month number (3=March)	1

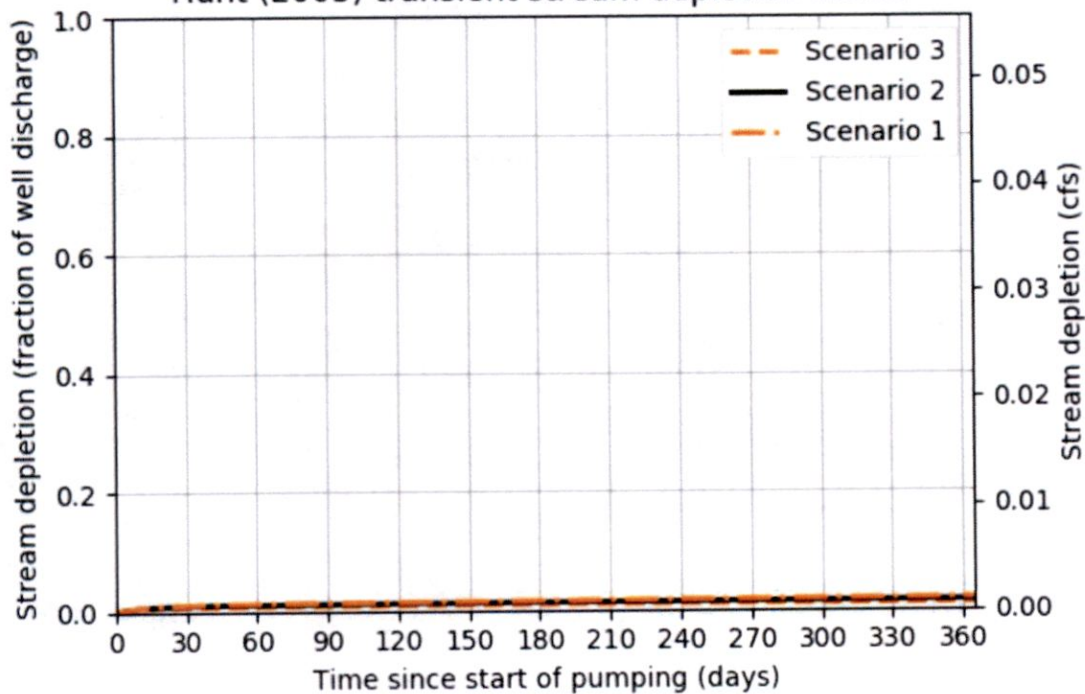
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Parameter	Symbol	Scenario 1	Scenario 2	Scenario 3	Units
Distance from well to stream	a	2600.0	2600.0	2600.0	ft
Aquifer transmissivity	T	10000.0	20000.0	60000.0	ft ² /day
Aquifer storativity	S	0.01	0.01	0.01	-
Aquitard vertical hydraulic conductivity	Kva	0.01	0.01	0.01	ft/day
Aquitard saturated thickness	ba	20.0	20.0	20.0	ft
Aquitard thickness below stream	babs	10.0	10.0	10.0	ft
Aquitard specific yield	Sya	0.2	0.2	0.2	-
Stream width	ws	100.0	100.0	100.0	ft

Stream depletion for Scenario 2:

Days	1	31	62	92	122	153	183	213	244	274	304	335	365
Depletion (%)	0	1	1	1	1	1	1	1	1	1	1	2	2
Depletion (cfs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0

Hunt (2003) transient stream depletion model



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