

Part 2 of 5 – Temporary Transfer Application Map Checklist

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

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

- 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 temporary 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) to convey water to the new temporary place of use, 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 4 of 5 – Applicant Information and Signature

Applicant Information

APPLICANT/BUSINESS NAME			PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS				FAX NO.
CITY	STATE	ZIP	E-MAIL	
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 Eric Urstadt / Aspen Rural Land Consulting			PHONE NO. 971.250.1520	ADDITIONAL CONTACT NO. 503.647.1919
ADDRESS 39290 NW Murtaugh Road				FAX NO.
CITY North Plains	STATE OR	ZIP 97133	E-MAIL	
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.				

<p>Explain in your own words what you propose to accomplish with this transfer application; and why:</p> <p>If you need additional space, continue on a separate piece of paper and attach to the application as “Attachment 1”.</p>
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Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)

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

Applicant signature	Print Name (and Title if applicable)	Date
Applicant signature	Print Name (and Title if applicable)	Date

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 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) has been conveyed.

Part 5 of 5 – Water Right Information

Please use a separate Part 5 for each water right being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

Description of Water Delivery System

System capacity: 0.32 cubic feet per second (cfs) **OR**

_____ gallons per minute (gpm)

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. **See original application.**

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)
“Div.” Cert 16677	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	NA	1	S	4	W	31	S W	S E	58	1590' S & 1485' W from NE S31
“PD1” Cert 89459	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	NA	1	S	4	W	32	S W	S E	59	820' N & 2200' W from SE S32 (= PD1 on Map for Cert 89459)
	<input type="checkbox"/> Authorized <input type="checkbox"/> Proposed										
	<input type="checkbox"/> Authorized <input type="checkbox"/> Proposed										

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

- | | |
|---|---|
| <input type="checkbox"/> Place of Use (POU) | <input type="checkbox"/> Appropriation/Well (POA) |
| <input type="checkbox"/> Point of Diversion (POD) | <input type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD) | |

Check all type(s) of temporary change(s) due to drought proposed below (change “CODES” are provided in parentheses):

- | | |
|---|---|
| <input type="checkbox"/> Place of Use (POU) | <input type="checkbox"/> Point of Appropriation/Well (POA) |
| <input type="checkbox"/> Character of Use (USE) | <input type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Point of Diversion (POD) | <input type="checkbox"/> Additional Point of Diversion (APOD) |

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

- Yes** Complete only the Proposed (“to” 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.

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 Temporary Changes to Water Right Certificate # 16677

List only the part of the right that will be changed. For the acreage in each 1/4 1/4, list the change proposed. If more than one change, specify the acreage associated with each change. If more than one POD/POA, 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	1/4	1/4	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	1/4	1/4	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		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
"	"	"	"	"	"	"	"	"	"	EXAMPLE	"	"	"	2	S	9	E	2	SW	NW	500		5.0		POD #6	1901
													POD/POU	1	S	4	W	32	SE	NW	401	59	0.5			
													POD/POU	1	S	4	W	32	NE	SW	401&500	59	6.0			
													POD/POU	1	S	4	W	32	NW	SW	401&500	59	1.1			
													POD/POU	1	S	4	W	32	SW	SW	500	59	2.1			
													POD/POU	1	S	4	W	32	SE	SW	401&500	59	7.6			
													POD/POU	1	S	4	W	32	NE	SE	401	59	0.3			
													POD/POU	1	S	4	W	32	NE	SE	401	4	0.4			
													POD/POU	1	S	4	W	32	NW	SE	401	59	5.1			
													POD/POU	1	S	4	W	32	SW	SE	401&500	59	1.6			
													POD/POU	1	S	4	W	32	SE	SE	401	59	0.5			
													POD/POU	1	S	4	W	32	SE	SE	401	5	0.4			
TOTAL ACRES									25.6	TOTAL ACRES											25.6					

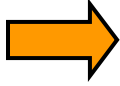
Additional remarks: See Next Page for Remarks

1. The entire right is being transferred so the left side of the chart is not completed.
2. The proposed Place of Use (POU) is the same irrigated area as the existing right being 25.6 acres. However, because the several strips of irrigated land are within the a larger area of land, it is needed to have to two area labels. In this application the irrigated area is named "Net Acres"; and the entire farmed area that includes all of the irrigated strips and the non-irrigated area, is called "Gross Acres".
3. The gross acres of irrigation were computed by a completing a site visit to map the land being farmed (the seedling are already in place). Then the outside of the line of the land being farmed was offset 25 feet inward to account for a strip around the tree rows that is not to be irrigated and is instead used for farming access. This offset line is my best estimate of the gross acres that will be irrigated.
4. Within these gross acres are rows of hazelnut trees that are 20.00 feet apart. The strips have been computed to need to be 5.03 feet wide centered on each row of hazelnut trees. Therefore for every lineal foot along a row there is $(5.03 \times 1.0 =) 5.03$ square feet (SF) of irrigation (net area) within $(20.0 \times 1.0 =) 20.00$ SF of gross area. The ratio of Net to Gross area is $5.03/20.00 = 0.2516$; or in other words, the net acres is 25.16% of the gross acres. There is 101.8 gross acres and 25.6 net acres. I find this method reasonable to compute the actual area to be irrigated under this temporary transfer.
5. Because of this non-typical net to gross acres irrigation pattern, and the requirement to not increase the right, the Water Resources Department (WRD) has mentioned the need for a method to determine the actual irrigation area. The site is very flat and appears to have four major soil types according to the NRCS. Further review of the NRCS soil types shows that all of the four soils have similar aspect, drainage, and area all the typical silty, clay loams with similar soil moisture characteristics. Therefore, Mike McCord of WRD stated that one baseline or control site and one or two measuring sites would be required by WRD.
6. The applicant proposes to install and maintain a soil moisture monitoring and reporting system suitable to WRD, and if WRD needs a systems other than what follows the applicant want WRD to work with the applicant to find a mutually agreeable solution. At minimum, the applicant proposes to install soil moisture monitoring devices at soil depths of 1', 2', and 3' at a distances of both 2'6" and 2'10" feet from the centerline of one row selected as likely being a typical row. Another set of 6 soil moisture sensors will be installed in a location where no irrigation will be occurring to establish a baseline for the soil moisture data. The devices are currently planned to be Spectrum Technologies, Inc. instruments. The "Waterscout SM 100" sensors along with the appropriate "Watchdog" monitors are planned to be utilized. The applicant will have a field person make periodic readings when before, during and after irrigation is taking place. (See <http://www.specmeters.com/soil-and-water/soil-moisture>).

For Place of Use Changes

Are there other water right certificates, water use permits or ground water registrations associated with the “from” or the “to” lands? **XX** Yes No

If YES, list the certificate, water use permit, or ground water registration numbers: **Cert. 89459**



Note: Cert 89459 is for stockwater and the POU for it is on the same property, but is not on the same POU as this transfer POU. The POD for this transfer is the same POD as is called “PD1” in Cert 89459. No other water rights were found applicable to this property other than the city of Hillsboro and Forest Grove service areas, which are not known to be utilized on this site.

Pursuant to ORS 540.525, any “layered” water use such as an irrigation right that is supplemental to a primary right proposed for temporary transfer can be included in the transfer or remain unused on the authorized place of use. If the primary water right does not revert soon enough to allow use of the supplemental right within five years, the supplemental right shall become subject to cancellation for nonuse under ORS 540-610.

For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation if necessary to convey the water to the new temporary place of use:

- 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.

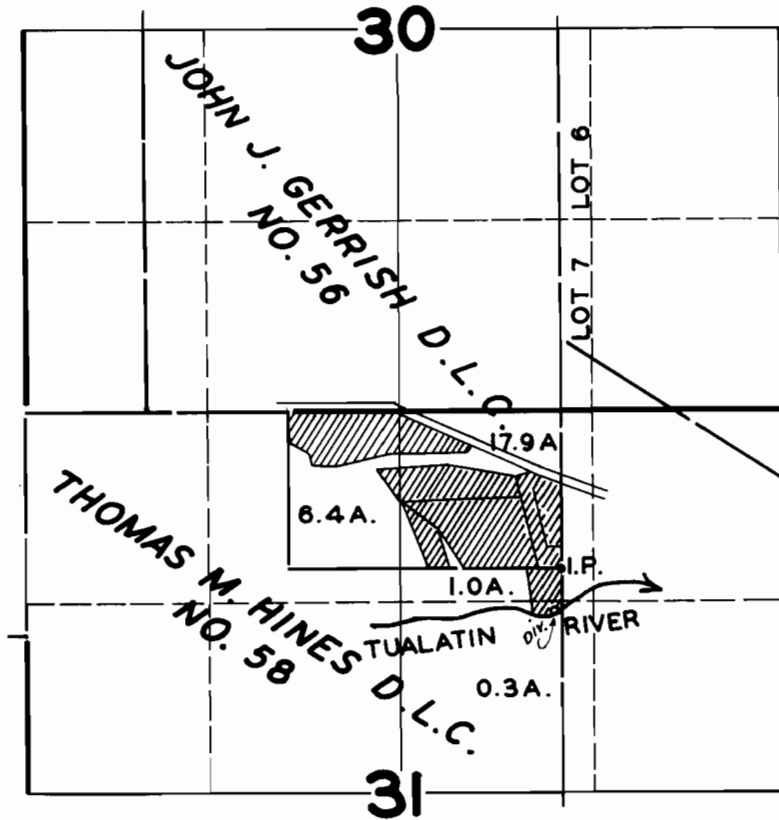
Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well, OWRD Well ID Tag No. L-___	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well - specific rate (cfs or gpm). If less than full rate of water right

Map For:

Temporary Transfer - "FROM" Lands

Transfer is for entire Place of Use for Certificate 16677

T. IS. R. 4 W. W. M.



FINAL PROOF SURVEY

UNDER

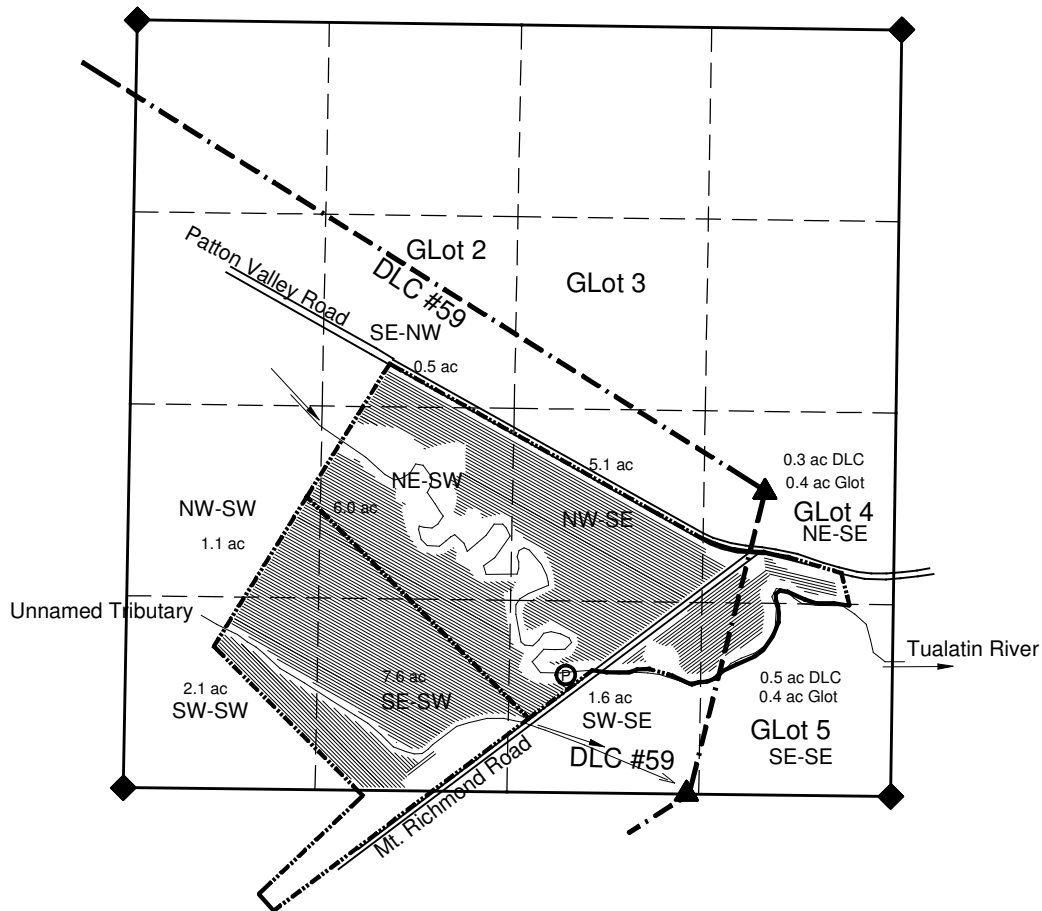
Application No. 19441... Permit No. 15038...

IN NAME OF

R. F. CLARKE

Surveyed **JULY 2**, 1947, by **JAS. E. BUNNELL**

MAP FOR
Temporary Transfer - "TO LANDS"
 S32, T1S, R4W, WASHINGTON COUNTY
 TRANSFER OF CERT 16677



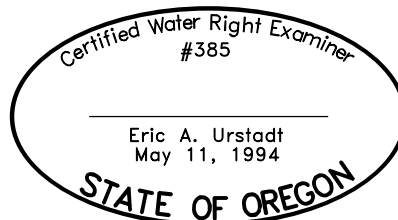
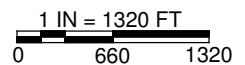
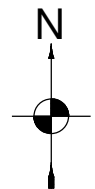
THE PROPOSED POD IS 820 NORTH
 AND 2200 WEST FROM THE SE CORNER
 S32

- NOTES:
- THE SECTION, DLC, AND AND PROPERTY LINES ARE FROM A SCALED TAX ASSESSOR MAP.
 - GOVERNMENT LOTS (GLot) ARE FROM GENERAL LAND OFFICE RECORDS.
 - WATER CONVEYANCE PIPELINES ARE NOT SHOWN; ALL ARE WITHIN THE PROPERTY OWNERSHIP.
 - THE IRRIGATED AREAS ARE STRIPS OF HAZELNUT TREES THAT CONSIST OF 5.0 FOOT WIDE IRRIGATED ROWS 20 FEET APART AND ALIGNED AS THE INDICATED BY THE HATCHING. THE ACRES (ac) OF IRRIGATION SHOWN IS NET IRRIGATED LAND INCLUDED WITHIN THE 5.0' WIDE STRIPS.

LEGEND

- DONATION LAND CLAIM (DLC) CORNER SECTION OR QUARTER CORNER
- PROPOSED POINT OF DIVERSION (POD)
- QUARTER-QUARTER LINE
- DLC LINE
- TAX LOT LINE
- SECTION LINE
- LOCATION OF 5.0 FOOT WIDE IRRIGATED STRIPS SPACED TWENTY FEET APART; WITH ROWS ALIGNED WITH DIRECTION OF HATCHING AS SHOWN.

MAP FOR:
 WILLAMETTE VALLEY FARM, LLC



MAP BY:
ASPEN RURAL LAND CONSULTING

ERIC URSTADT, PE, PLS
 971-250-1520
 MAR 2106

WillValleyLands-PattonValley

THIS MAP IS NOT INTENDED TO PROVIDE LEGAL DIMENSIONS OR LOCATIONS OF PROPERTY OWNERSHIP LINES.

EXPIRES 06/30/2014