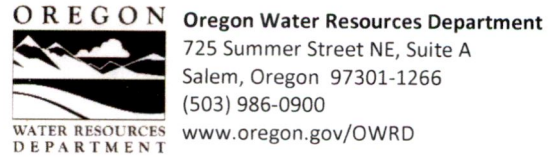


# Application for Permanent Water Right Transfer



## Part 1 of 5 – Minimum Requirements Checklist

**This transfer application will be returned if Parts 1 through 5 and all required attachments are not completed and included.**

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

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 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3. Try the new online fee calculator at: [http://apps.wrd.state.or.us/apps/misc/wrd\\_fee\\_calculator](http://apps.wrd.state.or.us/apps/misc/wrd_fee_calculator). If you have questions, call Customer Service at (503) 986-0801. **Check enclosed in amount of \$5310**
- Part 4 – Completed Applicant Information and Signature.
- Part 5 – Information about Water Rights to be Transferred: **How many water rights are to be transferred? Four List them here: 68702, 85411, 85415, 94101 (Attachment A)**  
Please include a separate Part 5 for each water right. (See instructions on page 6)

**Attachments:**

- Completed Transfer Application Map. **(Attachment B)**
- Completed Evidence of Use Affidavit and supporting documentation. **(Attachment C)**
- 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. **(Attachment D)**
- 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. **(Attachment E)**
- N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation. **(Attachment F)**
- 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):**

<input type="checkbox"/> Application fee not enclosed/insufficient	<input type="checkbox"/> Map not included or incomplete
<input type="checkbox"/> Land Use Form not enclosed or incomplete	<input type="checkbox"/> Evidence of Use Form not enclosed or incomplete
<input type="checkbox"/> Additional signature(s) required	<input type="checkbox"/> Part _____ is incomplete

Other/Explanation \_\_\_\_\_

Staff: \_\_\_\_\_ 503- \_\_\_\_\_ Date: \_\_\_\_\_

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## Part 2 of 5 – Transfer Application Map

**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/](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 4 of 5 – Applicant Information and Signature

### Applicant Information

APPLICANT/BUSINESS NAME <b>City of Bend, Attn: Lori Faha, Env. Resources Manager</b>		PHONE NO. <b>541.317.3025</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>62975 Boyd Acres Road</b>			FAX NO.
CITY <b>Bend</b>	STATE <b>OR</b>	ZIP <b>97701</b>	E-MAIL <b>lfaha@bendoregon.gov</b>
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 <b>GSI Water Solutions, Inc. ATTN: Owen McMurtrey</b>		PHONE NO. <b>541-740-5619</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>1600 SW Western Boulevard, Suite 240</b>			FAX NO.
CITY <b>Corvallis</b>	STATE <b>OR</b>	ZIP <b>97333</b>	E-MAIL <b>OMcMurtrey@gsiws.com</b>
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:  
**The City of Bend is requesting to add five additional wells (Pilot Butte 3, Outback Well 5, Outback Well 6, Outback Well 8, and Outback Well 9) to its water right Certificates 68702, 85411, 85415, and 94101 to allow for greater flexibility in the use of source wells under those water rights.**

If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

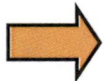
#### Check One Box

- 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: The Bend Bulletin.
- 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.**



Lori Faha  
Applicant signature

**Lori Faha, Env Resources Mgr**  
Print Name (and Title if applicable)

9/2/24  
Date

\_\_\_\_\_  
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\* - **N/A, the applicant is a municipality and is proposing to make changes to municipal use water rights.**

**The City owns the land where proposed new wells and associated distribution infrastructure are located or proposed to be located.**

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 **N/A – The applicant is a municipality.**

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](https://www.oregon.gov/owrd/WRDFormsPDF/Transfer_Property_Transactions.pdf)

RECEIVING LANDOWNER NAME <b>N/A</b>			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: <input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Receiving Landowner				

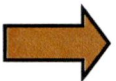
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Check here if any of the water rights proposed for transfer are or will be located within or served by an irrigation or other water district. (Tip: Complete and attach Supplemental Form D.) **Although the water will not be served by a district, portions of the authorized places of use for Certificates 68702, 86411, 85415 and 94101 are located within the boundaries of multiple irrigation districts.**

IRRIGATION DISTRICT NAME <b>N/A</b>	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 <b>N/A</b>	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 <b>City of Bend</b>	ADDRESS <b>710 NW Wall ST</b>	
CITY <b>Bend</b>	STATE <b>OR</b>	ZIP <b>97703</b>

ENTITY NAME <b>Deschutes County Planning</b>	ADDRESS <b>117 NW Lafayette Avenue</b>	
CITY <b>Bend</b>	STATE <b>OR</b>	ZIP <b>97701</b>

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## Part 5 of 5 – Water Right Information

CERTIFICATE # 68702

### Description of Water Delivery System

System capacity: 8.82 cubic feet per second (cfs) (**0.9 cfs under this Certificate 68702**) 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. **Water is currently pumped from two wells using line shaft turbine pumps and conveyed to the City of Bend's service area through a system of closed pipes.**

**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)
River Well 1	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 5577	18	S	12	E	5	SW	NW	1100	South 58 degrees, 4 minutes, 1 second East, 3007.14 feet from NW corner of the NENE of Section 6
River Well 2	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 5578	18	S	12	E	5	SW	NW	0900	1420 feet South and 950 feet East from the NW corner of Section 5*
Pilot Butte 3	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 52907	17	S	12	E	33	NE	NE	101	145 Feet North and 650 Feet East from the SW Corner, NENE, section 33
Outback 5	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56371	17	S	11	E	34	SW	SE	6202	North 38 Degrees 50 minutes 59 seconds West, 241.7 feet from SW Corner of SE 1/4 of section 34
Outback 6	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56449	17	S	11	E	34	SW	SE	6202	North 45 Degrees 11 minutes 27 seconds West, 458.7 Feet from SW Corner of SE 1/4 of section 34
Outback 8	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17	S	11	E	34	SW	SE	6202	85 feet North and 2,140 feet East from the SW corner of Section 34
Outback 9	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17	S	11	E	34	SW	SE	6202	740 feet North and 2,925 feet East from the SW corner of Section 34

\*The location description provided for River Well 2 is from Certificate #85415. The location of River Well 2 is more accurately described in that certificate.

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

- |   |  |
|---|--|
| <input type="checkbox"/> Place of Use (POU)                               | <input type="checkbox"/> Supplemental Use to Primary Use (S to P)            |
| <input type="checkbox"/> Character of Use (USE)                           | <input type="checkbox"/> Point of Appropriation/Well (POA)                   |
| <input type="checkbox"/> Point of Diversion (POD)                         | <input checked="" type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD)             | <input type="checkbox"/> Substitution (SUB)                                  |
| <input type="checkbox"/> Surface Water POD to Ground Water<br>POA (SW/GW) | <input type="checkbox"/> 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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**Table 2. Description of Changes to Water Right Certificate # 68702**

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				
<b>EXAMPLE</b>																										
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
													APOA	Within the Service Area of the City of Bend							MU	River Well 1 River Well 2 Pilot Butte 3 Outback 5 Outback 6 Outback 8 Outback 9	10/31/1971			
TOTAL ACRES:														TOTAL ACRES:								N/A				

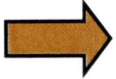
Additional remarks: \_\_\_\_\_.

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**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 – **N/A – Certificate 68702 is for municipal use so “layering” does not apply.**

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) **N/A**

Ground water supplemental Permit or Certificate # \_\_\_\_\_;

Surface water primary Certificate # \_\_\_\_\_.

**For a change from Supplemental Irrigation Use to Primary Irrigation Use**

Identify the primary certificate to be cancelled. Certificate # \_\_\_\_\_

**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.

**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. 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 (feet)	Casing Diameter (inches)	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
Outback 8	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	
Outback 9	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	

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**CERTIFICATE # 85411**

**Description of Water Delivery System**

System capacity: **1.56** cubic feet per second (cfs) (**1.51 cfs under Certificate 85411**) 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. **Water is pumped from the well using a 150 Horsepower submersible pump and the water is conveyed in enclosed water lines for distribution throughout the City's service area.**

**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)
Westwood Well	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 5585 / DESC 5586	18	S	12	E	7	NW	NW	3601	South 11 degrees 18 minutes 36 seconds East, 485.52 feet from NW Corner of Section 7	
Pilot Butte 3	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 52907	17	S	12	E	33	NE	NE	101	145 Feet North and 650 Feet East from the SW Corner, NENE, section 33	
Outback 5	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56371	17	S	11	E	34	SW	SE	6202	North 38 Degrees 50 minutes 59 seconds West, 241.7 feet from SW Corner of SE 1/4 of section 34	
Outback 6	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56449	17	S	11	E	34	SW	SE	6202	North 45 Degrees 11 minutes 27 seconds West, 458.7 Feet from SW Corner of SE 1/4 of section 34	
Outback 8	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17	S	11	E	34	SW	SE	6202	85 feet North and 2,140 feet East from the SW corner of Section 34	
Outback 9	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17	S	11	E	34	SW	SE	6202	740 feet North and 2,925 feet East from the SW corner of Section 34	

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

- |  |  |
|--|--|
| <input type="checkbox"/> Place of Use (POU)                            | <input type="checkbox"/> Supplemental Use to Primary Use (S to P)            |
| <input type="checkbox"/> Character of Use (USE)                        | <input type="checkbox"/> Point of Appropriation/Well (POA)                   |
| <input type="checkbox"/> Point of Diversion (POD)                      | <input checked="" type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD)          | <input type="checkbox"/> Substitution (SUB)                                  |
| <input type="checkbox"/> Surface Water POD to Ground Water POA (SW/GW) | <input type="checkbox"/> Government Action POD (GOV)                         |

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

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- 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 # 85411**

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		
<b>EXAMPLE</b>																						
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		
										APOA	See the place of use listing in Certificate 85411 (Attachment A)							QM	Westwood Well Pilot Butte Well 3 Outback 5 Outback 6 Outback 7 Outback 8	December 22, 1978		
TOTAL ACRES:											TOTAL ACRES:						N/A					

Additional remarks: \_\_\_\_\_.

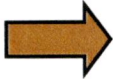
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For Place of Use or Character of Use Changes

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Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands?  Yes  No **N/A – Certificate 85411 is for municipal use (quasi-municipal water right held by a city) so "layering" does not apply.**

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) **N/A**

Ground water supplemental Permit or Certificate # \_\_\_\_\_;

Surface water primary Certificate # \_\_\_\_\_.

For a change from Supplemental Irrigation Use to Primary Irrigation Use **N/A**

Identify the primary certificate to be cancelled. Certificate # \_\_\_\_\_

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.

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. 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 (feet)	Casing Diameter (inches)	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
Outback 8	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	
Outback 9	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	

CERTIFICATE # 85415

Description of Water Delivery System

System capacity: 8.82 cubic feet per second (cfs) (2.7 cfs under this Certificate) OR \_\_\_\_\_ gallons per minute (gpm)

OWRD

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. Water is currently pumped from two wells using line shaft turbine pumps and conveyed to the City of Bend's service area through a system of closed pipes.

**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)
River Well 1	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 5577	18 S	12 E	5	SW	NW	1100	South 58 degrees, 4 minutes, 1 second East, 3007.14 feet from NW corner of the NENE of Section 6
River Well 2	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 5578	18 S	12 E	5	SW	NW	900	1420 feet South and 950 feet East from the NW corner of Section 5
Pilot Butte 3	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 52907	17 S	12 E	33	NE	NE	101	145 Feet North and 650 Feet East from the SW Corner, NENE, section 33
Outback 5	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56371	17 S	11 E	34	SW	SE	6202	North 38 Degrees 50 minutes 59 seconds West, 241.7 feet from SW Corner of SE 1/4 of section 34
Outback 6	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56449	17 S	11 E	34	SW	SE	6202	North 45 Degrees 11 minutes 27 seconds West, 458.7 Feet from SW Corner of SE 1/4 of section 34
Outback 8	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17 S	11 E	34	SW	SE	6202	85 feet North and 2,140 feet East from the SW corner of Section 34
Outback 9	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17 S	11 E	34	SW	SE	6202	740 feet North and 2,925 feet East from the SW corner of Section 34

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

- Place of Use (POU)
- Character of Use (USE)
- Point of Diversion (POD)
- Additional Point of Diversion (APOD)
- Supplemental Use to Primary Use (S to P)
- Point of Appropriation/Well (POA)
- Additional Point of Appropriation (APOA)
- 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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SEP 30 2024  
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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 # 85415**

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				
<b>EXAMPLE</b>																										
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
														Within the Service Area of the City of Bend								MU	River Well 1 River Well 2 Pilot Butte 3 Outback 5 Outback 6 Outback 8 Outback 9	October 13, 1971		
TOTAL ACRES:														TOTAL ACRES:								N/A				

Additional remarks: \_\_\_\_\_.

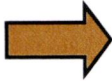
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**For Place of Use or Character of Use Changes**

**OWRD**

Are there other water right certificates, water use permits or ground water registrations associated with the “from” or the “to” lands?  Yes  No **N/A – Certificate 85415 is for municipal use so “layering” does not apply.**

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) **N/A**

Ground water supplemental Permit or Certificate # \_\_\_\_\_;

Surface water primary Certificate # \_\_\_\_\_.

**For a change from Supplemental Irrigation Use to Primary Irrigation Use**

Identify the primary certificate to be cancelled. Certificate # \_\_\_\_\_

**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.

**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. 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 (feet)	Casing Diameter (inches)	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
Outback 8	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	
Outback 9	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	

CERTIFICATE # 94101

OWRD

Description of Water Delivery System

System capacity: 6.63 cubic feet per second (cfs) (0.94 cfs under this right) 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. Water is currently pumped from three wells using line shaft turbine pumps and a submersible pump. Water is conveyed in enclosed pipelines throughout City of Bend service area.

**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)
Westwood	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 5585 / DESC 5586	18 S	12 E	7	NW	NW	3601	South 11 degrees 18 minutes 36 seconds East, 485.52 feet from NW Corner of Section 7
Pilot Butte 4	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 58778	17 S	12 E	33	NE	NE	101	South 20 degrees, 6 minutes 13.3 seconds West, 1175 feet from the NE Corner of Section 33
Shiloh Well 3	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 5613	18 S	12 E	16	SW	NW		South 1 degree, 39 minutes, 8 seconds East, 2133 feet from the NW Corner of Section 16
Pilot Butte 3	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 52907	17 S	12 E	33	NE	NE	101	145 Feet North and 650 Feet East from the SW Corner, NENE, section 33
Outback 5	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56371	17 S	11 E	34	SW	SE	6202	North 38 Degrees 50 minutes 59 seconds West, 241.7 feet from SW Corner of SE 1/4 of section 34
Outback 6	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 56449	17 S	11 E	34	SW	SE	6202	North 45 Degrees 11 minutes 27 seconds West, 458.7 Feet from SW Corner of SE 1/4 of section 34
Outback 8	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17 S	11 E	34	SW	SE	6202	85 feet North and 2,140 feet East from the SW corner of Section 34
Outback 9	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	17 S	11 E	34	SW	SE	6202	740 feet North and 2,925 feet East from the SW corner of Section 34

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

- |   |  |
|---|--|
| <input type="checkbox"/> Place of Use (POU)                               | <input type="checkbox"/> Supplemental Use to Primary Use (S to P)            |
| <input type="checkbox"/> Character of Use (USE)                           | <input type="checkbox"/> Point of Appropriation/Well (POA)                   |
| <input type="checkbox"/> Point of Diversion (POD)                         | <input checked="" type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD)             | <input type="checkbox"/> Substitution (SUB)                                  |
| <input type="checkbox"/> Surface Water POD to Ground Water<br>POA (SW/GW) | <input type="checkbox"/> 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 # 94101**

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				
<b>EXAMPLE</b>																										
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
													APOA	See the place of use listing in Certificate 94101 (Attachment A)							QM	Westwood Well, Pilot Butte 4 Shilo Well 3 Pilot Butte 3 Outback 5 Outback 6 Outback 8 Outback 9	December 22, 1978			
TOTAL ACRES:														TOTAL ACRES:					N/A							

Additional remarks: \_\_\_\_\_.

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**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 **N/A – Certificate 94101 is for municipal use (quasi-municipal water right held by a city) so “layering” does not apply.**

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)

**N/A**

Ground water supplemental Permit or Certificate # \_\_\_\_\_;

Surface water primary Certificate # \_\_\_\_\_.

**For a change from Supplemental Irrigation Use to Primary Irrigation Use**

Identify the primary certificate to be cancelled. Certificate # \_\_\_\_\_

**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.

**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. 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 (feet)	Casing Diameter (inches)	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
Outback 8	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	
Outback 9	No	N/A	860 (est)	16 12 (est)	2 – 612 603 – 870 (est)	0 – 160 160 – 575 575 – 612 (est)	610 – 860 (est)	470 (est)	Deschutes formation	

## Attachment A

Certificates 68702, 85411, 85415 & 94101  
Application for Permanent Water Right Transfer - City of Bend

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STATE OF OREGON  
COUNTY OF DESCHUTES  
CERTIFICATE OF WATER RIGHT

Received  
SEP 30 2024

OWRD

THIS CERTIFICATE ISSUED TO

CITY OF BEND  
PO BOX 431  
BEND, OREGON 97709

confirms the right to use the waters of WELLS 1 AND 2 in the DESCHUTES BASIN for MUNICIPAL USE.

This right was perfected under Permit G-4946. The date of priority is OCTOBER 31, 1971. The amount of water to which this right is entitled is limited to an amount actually beneficially used and shall not exceed 0.90 CUBIC FOOT PER SECOND or its equivalent in case of rotation, measured at the well.

The wells are located as follows:

SW $\frac{1}{4}$  NW $\frac{1}{4}$  AND SE $\frac{1}{4}$  NW $\frac{1}{4}$ , SECTION 5, T 18 S, R 12 E, WM; WELL 1 - SOUTH 58° 04' 01" EAST, 3007.14 FEET; WELL 2 - SOUTH 55° 54' 56" EAST, 3419.16 FEET; BOTH FROM THE NW CORNER OF THE NE $\frac{1}{4}$  NE $\frac{1}{4}$ , SECTION 6.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

A description of the place of use to which this right is appurtenant is as follows:

WITHIN THE SERVICE AREA OF THE CITY OF BEND

The well shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon.

This use may be regulated if analysis of data available discloses that the appropriation will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife in effect as of the priority date of this right or as those quantities may be subsequently reduced.

This certificate is issued to correctly describe the points of appropriation and describes that portion of the water right confirmed by Certificate 68458, State Record of Water Right Certificates, NOT modified by the provisions of an order of the Water Resources Director entered November 28, 1995, approving Transfer Application 7009

The issuance of this superseding certificate does not confirm the status of the water right in regard to the provisions of ORS 540.610 pertaining to forfeiture or abandonment.

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described.

WITNESS the signature of the Water Resources Director,  
affixed November 28, 1995.

*is/* Steven P. Applegate

Martha O. Pagel, Director

Recorded in State Record of Water Right Certificates numbered 68702.

T-7009.BWB



STATE OF OREGON  
 COUNTY OF DESCHUTES  
 CERTIFICATE OF WATER RIGHT

Received  
 SEP 30 2024  
 OWRD

THIS CERTIFICATE ISSUED TO

CITY OF BEND  
 575 NE 15<sup>th</sup> ST  
 BEND OR 97701

confirms the right to use the waters of A WELL in the Deschutes Basin for QUASI-MUNICIPAL USES.

This right was perfected under Permit G-8565. The date of priority is DECEMBER 22, 1978. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 676 gallons per minute, or its equivalent in case of rotation, measured at the well.

The well is located as follows:

Twp	Rng	Mer	Sec	Q-Q	Survey Coordinates
18 S	12 E	WM	7	NW NW	SOUTH 11 DEGREES 18 MINUTES 36 SECONDS EAST, 485.52 FEET FROM NW CORNER, SECTION 7

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described.

A description of the place of use to which this right is appurtenant is as follows:

Twp	Rng	Mer	Sec	Q-Q
18 S	11 E	WM	12	SW SW
18 S	11 E	WM	12	SE SW
18 S	11 E	WM	12	NE SE
18 S	11 E	WM	12	NW SE
18 S	11 E	WM	12	SW SE
18 S	11 E	WM	12	SE SE
18 S	11 E	WM	13	NE NE
18 S	11 E	WM	13	NW NE
18 S	11 E	WM	13	SW NE
18 S	11 E	WM	13	NE NW
18 S	11 E	WM	13	NW NW
18 S	11 E	WM	13	SW NW

**NOTICE OF RIGHT TO PETITION FOR RECONSIDERATION OR JUDICIAL REVIEW**

This is an order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080, you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate at any time before it has issued, and after the time has expired for the completion of the appropriation under the permit, or within three months after issuance of the certificate.

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SEP 30 2024  
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Twp	Rng	Mer	Sec	Q-Q
18 S	11 E	WM	13	SE NW
18 S	11 E	WM	13	NE SW
18 S	11 E	WM	13	NW SW
18 S	12 E	WM	6	SW SW
18 S	12 E	WM	6	SE SW
18 S	12 E	WM	7	NE NW
18 S	12 E	WM	7	NW NW
18 S	12 E	WM	7	SW NW
18 S	12 E	WM	7	NW SW
18 S	12 E	WM	7	SW SW

The well shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

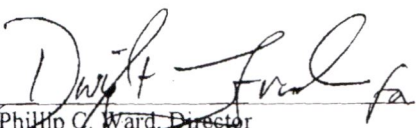
The water user shall install and maintain a weir, meter, or other suitable measuring device and keep a complete record of the amount of ground water withdrawn.

Water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3).

This certificate is issued for a partial perfection of Permit G-8565 as described in OAR 690-320-0040 and by an order of the Water Resources Director entered March 12, 2009.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

Issued MAR 12 2009

  
Phillip C. Ward, Director  
Water Resources Department

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. In addition, under ORS 537.260 any person with an application, permit or water right certificate subsequent in priority may jointly or severally contest the issuance of the certificate at any time before it has issued, and after the time has expired for the completion of the appropriation under the permit, or within three months after issuance of the certificate.

STATE OF OREGON

COUNTY OF DESCHUTES

CERTIFICATE OF WATER RIGHT

THIS CERTIFICATE ISSUED TO

CITY OF BEND  
575 NE 15<sup>TH</sup> STREET  
BEND, OREGON 97701

confirms the right to use the waters of RIVER WELL #1 AND RIVER WELL #2 in the DESCHUTES RIVER BASIN for MUNICIPAL USE.

This right was perfected under Permit G-4946. The date of priority is OCTOBER 13, 1971. This right is limited to 2.70 CUBIC FEET PER SECOND or its equivalent in case of rotation, measured at the wells.

The wells are located as follows:

RIVER WELL #1 - SW ¼ NW ¼, SECTION 5, TOWNSHIP 18 SOUTH, RANGE 12 EAST, W.M.: SOUTH 58 DEGREES 04 MINUTES 01 SECOND EAST, 3007.14 FEET FROM THE NW CORNER OF THE NE ¼ OF THE NE ¼ OF SECTION 6

RIVER WELL #2 - SW ¼ NW ¼, SECTION 5, TOWNSHIP 18 SOUTH, RANGE 12 EAST, W.M.: 1420 FEET SOUTH AND 950 FEET EAST FROM THE NW CORNER OF SECTION 5.

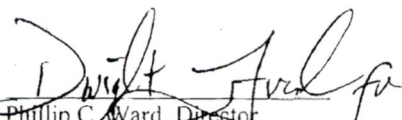
A description of the place of use to which this right is appurtenant is as follows:

WITHIN SERVICE AREA  
CITY OF BEND

The wells shall be maintained in accordance with the General Standards for the Construction and maintenance of Water Wells in Oregon.

The right to use water for the above purpose is restricted to beneficial use on the lands or place of use described.

Issued MAR 12 2009

  
Phillip C. Ward, Director  
Water Resources Department

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SEP 30 2024  
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STATE OF OREGON  
 COUNTY OF DESCHUTES  
 CERTIFICATE OF WATER RIGHT

Received  
 SEP 30 2024  
 OWRD

THIS CERTIFICATE ISSUED TO

CITY OF BEND  
 710 NW WALL STREET  
 BEND OR 97703

confirms the right to use the waters of THREE WELLS in the Deschutes Basin for QUASI-MUNICIPAL USE.

This right was perfected under Permit G-8565. The date of priority is DECEMBER 22, 1978. The amount of water to which this right is entitled is limited to an amount actually used beneficially, and shall not exceed 424 GALLONS PER MINUTE or its equivalent in case of rotation, in any combination, measured at the wells.

The wells are located as follows:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
18 S	12 E	WM	7	NW NW	WESTWOOD WELL: SOUTH 11 DEGREES 18 MINUTES 36 SECONDS EAST, 485.52 FEET FROM NW CORNER, SECTION 7
17 S	12 E	WM	33	NE NE	PILOT BUTTE WELL #4: SOUTH 20 DEGREES 6 MINUTES 13.3 SECONDS WEST, 1175 FEET FROM NE CORNER, SECTION 33
18 S	12 E	WM	16	SW NW	SHILO WELL #3: SOUTH 1 DEGREE 39 MINUTES 8 SECONDS EAST, 2133 FEET FROM NW CORNER, SECTION 16

A description of the place of use is as follows:

QUASI-MUNICIPAL USES				
Twp	Rng	Mer	Sec	Q-Q
17 S	11 E	WM	23	NE SW
17 S	11 E	WM	23	SE SW
17 S	11 E	WM	24	NE NE
17 S	11 E	WM	24	NW NE
17 S	11 E	WM	24	SW NE
17 S	11 E	WM	24	SE NE
17 S	11 E	WM	24	SE NW
17 S	11 E	WM	24	NE SW
17 S	11 E	WM	24	SE SW
17 S	11 E	WM	24	NE SE
17 S	11 E	WM	24	NW SE
17 S	11 E	WM	24	SW SE
17 S	11 E	WM	24	SE SE
17 S	11 E	WM	25	NE NE
17 S	11 E	WM	25	NW NE
17 S	11 E	WM	25	SW NE

QUASI-MUNICIPAL USES				
Twp	Rng	Mer	Sec	Q-Q
18 S	12 E	WM	20	SE NW
18 S	12 E	WM	21	NW NW
18 S	12 E	WM	21	SW NW

The wells shall be maintained in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge to determine the water level elevation in the well at all times.

The combined quantity of water diverted at the new points of appropriation (wells), together with that diverted at the old points of appropriation, shall not exceed the quantity of water lawfully available at the original points of appropriation.

The water user shall keep a complete record of the amount of ground water withdrawn.

Water use measurement conditions:

- A. The water user shall maintain the meters or measuring devices in good working order.
- B. The water user shall allow the watermaster access to the meters or measuring devices; provided however, where the meters or measuring devices are located within a private structure, the watermaster shall request access upon reasonable notice.

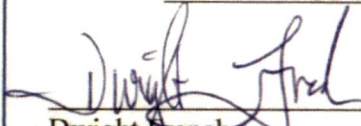
Water shall be acquired from the same aquifer as the original point of appropriation.

This certificate describes the portion of Certificate 87416 NOT modified by an order of the Water Resources Director recorded in Special Order Volume 109, Page 911 approving a partial cancellation. This certificate supersedes Certificate 87416.

Water may be applied to lands which are not specifically described above, provided the holder of this right complies with ORS 540.510(3).

The right to the use of the water for the above purpose is restricted to beneficial use on the lands or place of use described.

Issued on NOV 08 2018



Dwight French  
Water Right Services Division Administrator, for  
Thomas M. Byler, Director  
Oregon Water Resources Department

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# Attachment B

Application Maps

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Application for Permanent Water Right Transfer – City of Bend

Received

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**From:** JARAMILLO Lisa J \* WRD <Lisa.J.JARAMILLO@water.oregon.gov>  
**Sent:** Monday, August 12, 2024 6:26 PM  
**To:** Vokhidjon Kakhramonov; WRD\_DL\_transfer  
**Subject:** RE: Map scale waiver

Good afternoon Vokhidjon,

I apologize for the delay. The map scale waiver request is approved. Please submit a copy of this correspondence along with the transfer application when it is submitted.

Best regards,  
Lisa

[Lisa J. Jaramillo](#)

Transfer and Conservation Section Manager  
725 Summer Street NE, Suite A, Salem, OR 97301 | Phone: 503-871-1889 (work cell)



Integrity | Service | Technical Excellence | Teamwork | Forward-Looking

**NOTE:** OWRD offices are now open to the public. Given that many staff will continue teleworking remotely or have job duties that take them into the field on a regular basis, however, availability of staff in the office is not guaranteed 8 a.m. - 5 p.m. every day (M-F). OWRD's Salem office is closed for customer service drop-ins from Noon – 1pm. **Customers and visitors are encouraged to schedule an appointment in advance if they wish to meet in person with specific staff members.** Alternative methods for meeting, such as by phone or virtually via Teams, are also available.

---

**From:** Vokhidjon Kakhramonov <vkakhramonov@gsiws.com>  
**Sent:** Monday, August 12, 2024 1:49 PM  
**To:** WRD\_DL\_transfer <wrd\_dl\_transfer@water.oregon.gov>  
**Subject:** RE: Map scale waiver

Some people who received this message don't often get email from [vkakhramonov@gsiws.com](mailto:vkakhramonov@gsiws.com). [Learn why this is important](#)

Good afternoon

Is there any update on our request?

Regards,  
Vokhidjon

**Vokhidjon Kakhramonov**  
**Water Resources Analyst**  
mobile: 541.272.5717  
1600 SW Western Boulevard, Suite 240, Corvallis, OR 97333  
GSI Water Solutions, Inc. | [www.gsiws.com](http://www.gsiws.com)

Received  
SEP 30 2024  
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**From:** Vokhidjon Kakhramonov  
**Sent:** Thursday, August 1, 2024 12:36 PM  
**To:** [wrd\\_dl\\_transfer@water.oregon.gov](mailto:wrd_dl_transfer@water.oregon.gov)  
**Subject:** Map scale waiver

Good afternoon

I would like to request a map scale waiver (per 690-380-3100 (1)(e(E))) for a permanent water right transfer application to be submitted on behalf of City of Bend. The map uses a scale of 1 inch = 6,550 ft in order to fit the entire place of use.

Let me know if there is anything else I can provide.

**Vokhidjon Kakhramonov**

**Water Resources Analyst**

mobile: 541.272.5717

1600 SW Western Boulevard, Suite 240, Corvallis, OR 97333

GSI Water Solutions, Inc. | [www.gsiws.com](http://www.gsiws.com)

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# Attachment C

Evidence of Use Affidavit

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Application for Permanent Water Right Transfer – City of Bend

Received

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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 )  
 ) ss  
 County of DESCHUTES)

I, Lori Faha, in my capacity as CITY OF BEND Environmental Resources Manager,  
 mailing address 62975 BOYD ACRES ROAD, BEND, OR, 97701  
 telephone number (541) 317-3025, 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 # CERTIFICATES 68702, 85411, 85415 & 94101; 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	Acres (if applicable)

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)

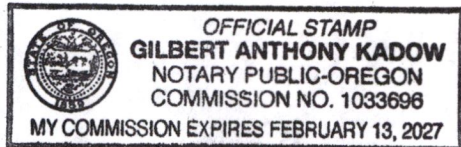
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 SEP 30 2024  
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3. The water right was used for: (e.g., crops, pasture, etc.): MUNICIPAL WATER SUPPLY
4. I understand that if I do not attach one or more of the documents shown in the table below to support the above statements, my application will be considered incomplete.

Jeri Fdun  
Signature of Affiant

9-9-24  
Date

Signed and sworn to (or affirmed) before me this 9 day of SEPT., 2024.



[Signature]  
Notary Public for Oregon

My Commission Expires: FEB. 13<sup>TH</sup>, 2027

Supporting Documents	Examples
<input type="checkbox"/> Copy of a water right certificate that has been issued within the last five years. (not a remaining right certificate)	Copy of <b>confirming</b> water right certificate that shows issue date
<input type="checkbox"/> Copies of receipts from sales of irrigated crops or for expenditures related to use of water	<ul style="list-style-type: none"> <li>• Power usage records for pumps associated with irrigation use</li> <li>• Fertilizer or seed bills related to irrigated crops</li> <li>• Farmers Co-op sales receipt</li> </ul>
<input type="checkbox"/> Records such as FSA crop reports, irrigation district records, NRCS farm management plan, or records of other water suppliers	<ul style="list-style-type: none"> <li>• District assessment records for water delivered</li> <li>• Crop reports submitted under a federal loan agreement</li> <li>• Beneficial use reports from district</li> <li>• IRS Farm Usage Deduction Report</li> <li>• Agricultural Stabilization Plan</li> <li>• CREP Report</li> </ul>
<input type="checkbox"/> Aerial photos containing sufficient detail to establish location and date of photograph	<p>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.</p> <p>Sources for aerial photos: OSU – <a href="http://www.oregonexplorer.info/imagery">www.oregonexplorer.info/imagery</a> OWRD – <a href="http://www.wrd.state.or.us">www.wrd.state.or.us</a> Google Earth – <a href="http://earth.google.com">earth.google.com</a> TerraServer – <a href="http://www.terra-server.com">www.terra-server.com</a></p>
<input type="checkbox"/> Approved Lease establishing beneficial use within the last 5 years	Copy of instream lease or lease number
<input checked="" type="checkbox"/> 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).	<b>The listed Certificates are water rights held by a city for reasonable and ordinary municipal purposes. See Certificates in Attachment A.</b>

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# Attachment D

Supplemental Form D

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Application for Permanent Water Right Transfer – City of Bend

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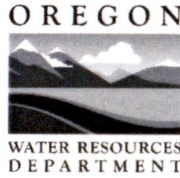
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**Supplemental Form D**

**Water Right Transfers Within the Boundaries of or Served by an Irrigation District or other Water Supplier (Association, Ditch Co., etc.)**

[For transfers submitted under OAR Chapter 690 Division 380]



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

The Department requires non-district applicants to communicate with districts/water suppliers during the planning and preparation of transfer applications involving water rights having a point of diversion or appropriation (POD/POA) or place of use (POU) served by or located within the boundaries of an irrigation district, or other type of water supplier to which assessments are paid. In some cases consent will be required from the district or water supplier.

This form must be included with any transfer application that involves rights served by or located within the boundaries of a district or other type of water supplier.

**1. APPLICANT INFORMATION**

NAME <b>City of Bend, ATTN: Lori Faha</b>			PHONE (HM)
PHONE (WK) <b>541-317-3025</b>	CELL	FAX	
ADDRESS <b>62975 Boyd Acres Road</b>			
CITY <b>Bend</b>	STATE <b>OR</b>	ZIP <b>97701</b>	E-MAIL** <b>LFAHA@BENDOREGON.GOV</b>

**2. DISTRICT or WATER SUPPLIER INFORMATION**

DISTRICT/WATER SUPPLIER NAME <b>ARNOLD IRRIGATION DISTRICT</b>			PHONE (HM)
PHONE (WK) <b>541-382-7664</b>	CELL	FAX	
ADDRESS <b>19604 BUCK CANYON RD.,</b>			
CITY <b>BEND</b>	STATE <b>OR</b>	ZIP <b>97702</b>	E-MAIL** <b>jharvey@arnoldid.com</b>

\*\* By providing an e-mail address, the applicant and/or the district/water supplier consents to receive all correspondence from the Department electronically. Copies of final order documents will also be mailed.

**3. WATER RIGHTS ISSUED IN THE NAME OF, or LOCATED WITHIN, or SERVED BY AN IRRIGATION DISTRICT, OTHER DISTRICT, OR WATER SUPPLIER**

a. List the water right(s) involved in this transfer:

	Application / Decree	Permit / Previous Transfer	Certificate	Is the water right in the name of a district, water supplier, or BOR*?
1.	<b>G-5644</b>	<b>G-4946</b>	<b>68702</b>	YES <input type="checkbox"/>
2.	<b>G-8695</b>	<b>G-8565</b>	<b>85411</b>	YES <input type="checkbox"/>
3.	G-5644	G-4946	<b>85415</b>	YES <input type="checkbox"/>
4.	G-8695	G-8565	<b>94101</b>	YES <input type="checkbox"/>

Attach additional pages for additional water rights if necessary.

\*Bureau of Reclamation

b. Determine a district's/water supplier's connection to your points of diversion (POD) or appropriation (POA) and places of use (POU). [You may need to consult with your district/water supplier.]

**CURRENT ASSOCIATIONS** Please answer the following "yes" or "no" questions:

YES  NO  One or more of the current POD(s) / POA(s) involved in the transfer are served by a district/water supplier or rely on BOR water.

YES  NO  All or a portion of the current POU involved in this proposed transfer receives water for either primary or supplemental irrigation from the district/water supplier; i.e., the POU is currently layered with a district or BOR water supplied water right(s).

**PROPOSED ASSOCIATIONS** Please answer the following "yes" or "no" questions:

YES  NO  One or more of the proposed POD(s) / POA(s) involved in the transfer are currently served or will be served by a district/water supplier if the transfer is approved, or rely on BOR water.

YES  NO  All or a portion of the proposed POU involved in this proposed transfer currently receives or will receive either primary or supplemental irrigation from the district/water supplier; i.e., the POU will be layered with a district/water supplier or BOR water supplied water right(s).

COMMENTS OR ADDITIONAL INFORMATION **A portion of the City's authorized place of use is within the AID service area, however, the subject water rights are not served by or issued in the name of the irrigation district and are for municipal use.**

**4. APPLICANT'S SIGNATURE**

(1) I certify that I have notified the district/water supplier about the proposed water right transfer application by [check one]:

email,  phone,  postal mail,  in person, or  other (please specify) \_\_\_\_\_

(2) I certify that to the best of my knowledge the information contained in this Supplemental Form D is true and accurate.

  
Applicant Signature

**Lori Faha**  
Name (print)

9/12/24  
Date

**5. (WHEN REQUIRED) DISTRICT or WATER SUPPLIER CONSENT TO THE PROPOSED WATER RIGHT TRANSFER**

District Manager or Water Supplier consent is required if any box on this form is marked "YES."

The district/water supplier certifies the following:

(1) The district/water supplier has reviewed the applicant's proposed water right transfer application and maps; and

(2) The district/water supplier consents to the proposed water right transfer application.

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YES  NO  After proof of completion, the confirming water right certificate is to remain in the name of the U.S. Bureau of Reclamation or the district/water supplier.

YES  NO  The district/water supplier will be responsible for submitting the claim of beneficial use prepared by a Certified Water Rights Examiner (CWRE).

\_\_\_\_\_  
Signature of District Manager /Water Supplier

\_\_\_\_\_  
Name (print), Title

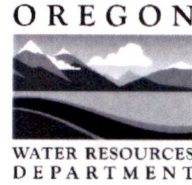
\_\_\_\_\_  
Date

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# Supplemental Form D

## Water Right Transfers Within the Boundaries of or Served by an Irrigation District or other Water Supplier (Association, Ditch Co., etc.)

[For transfers submitted under OAR Chapter 690 Division 380]



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

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This form must be included with any transfer application that involves rights served by or located within the boundaries of a district or other type of water supplier.

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### 1. APPLICANT INFORMATION

NAME <b>City of Bend, ATTN: Lori Faha</b>		PHONE (HM)	
PHONE (WK) <b>541-317-3025</b>	CELL	FAX	
ADDRESS <b>62975 Boyd Acres Road</b>			
CITY <b>Bend</b>	STATE <b>OR</b>	ZIP <b>97701</b>	E-MAIL** <b>LFAHA@BENDOREGON.GOV</b>

### 2. DISTRICT or WATER SUPPLIER INFORMATION

DISTRICT/WATER SUPPLIER NAME <b>CENTRAL OREGON IRRIGATION DISTRICT</b>		PHONE (HM)	
PHONE (WK) <b>541-548-6047</b>	CELL	FAX	
ADDRESS <b>1055 SW LAKE CT</b>			
CITY <b>REDMOND</b>	STATE <b>OR</b>	ZIP <b>97756</b>	E-MAIL** <b>INFO@COID.ORG</b>

\*\* By providing an e-mail address, the applicant and/or the district/water supplier consents to receive all correspondence from the Department electronically. Copies of final order documents will also be mailed.

### 3. WATER RIGHTS ISSUED IN THE NAME OF, or LOCATED WITHIN, or SERVED BY AN IRRIGATION DISTRICT, OTHER DISTRICT, OR WATER SUPPLIER

a. List the water right(s) involved in this transfer:

	Application / Decree	Permit / Previous Transfer	Certificate	Is the water right in the name of a district, water supplier, or BOR*?
1.	<b>G-5644</b>	<b>G-4946</b>	<b>68702</b>	YES <input type="checkbox"/>
2.	<b>G-8695</b>	<b>G-8565</b>	<b>85411</b>	YES <input type="checkbox"/>
3.	G-5644	G-4946	<b>85415</b>	YES <input type="checkbox"/>
4.	G-8695	G-8565	<b>94101</b>	YES <input type="checkbox"/>

Attach additional pages for additional water rights if necessary.

\*Bureau of Reclamation



- b. Determine a district's/water supplier's connection to your points of diversion (POD) or appropriation (POA) and places of use (POU). [You may need to consult with your district/water supplier.]

**CURRENT ASSOCIATIONS** Please answer the following "yes" or "no" questions:

- YES  NO  One or more of the current POD(s) / POA(s) involved in the transfer are served by a district/water supplier or rely on BOR water.
- YES  NO  All or a portion of the current POU involved in this proposed transfer receives water for either primary or supplemental irrigation from the district/water supplier; i.e., the POU is currently layered with a district or BOR water supplied water right(s).

**PROPOSED ASSOCIATIONS** Please answer the following "yes" or "no" questions:

- YES  NO  One or more of the proposed POD(s) / POA(s) involved in the transfer are currently served or will be served by a district/water supplier if the transfer is approved, or rely on BOR water.
- YES  NO  All or a portion of the proposed POU involved in this proposed transfer currently receives or will receive either primary or supplemental irrigation from the district/water supplier; i.e., the POU will be layered with a district/water supplier or BOR water supplied water right(s).

**COMMENTS OR ADDITIONAL INFORMATION** A portion of the City's authorized place of use is within the COID service area, however, the subject water rights are not served by or issued in the name of the irrigation district and are for municipal use.

**4. APPLICANT'S SIGNATURE**

- (1) I certify that I have notified the district/water supplier about the proposed water right transfer application by [check one]:  
 email,  phone,  postal mail,  in person, or  other (please specify) \_\_\_\_\_
- (2) I certify that to the best of my knowledge the information contained in this Supplemental Form D is true and accurate.

  
Applicant Signature

Lori Faha  
Name (print)

9/12/24  
Date

**5. (WHEN REQUIRED) DISTRICT or WATER SUPPLIER CONSENT TO THE PROPOSED WATER RIGHT TRANSFER**

District Manager or Water Supplier consent is required if any box on this form is marked "YES."

The district/water supplier certifies the following:

- (1) The district/water supplier has reviewed the applicant's proposed water right transfer application and maps; and
- (2) The district/water supplier consents to the proposed water right transfer application.

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YES  NO  After proof of completion, the confirming water right certificate is to remain in the name of the U.S. Bureau of Reclamation or the district/water supplier.

YES  NO  The district/water supplier will be responsible for submitting the claim of beneficial use prepared by a Certified Water Rights Examiner (CWRE).

\_\_\_\_\_  
Signature of District Manager /Water Supplier

\_\_\_\_\_  
Name (print), Title

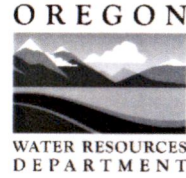
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This form must be included with any transfer application that involves rights served by or located within the boundaries of a district or other type of water supplier.

### 1. APPLICANT INFORMATION

NAME <b>City of Bend, ATTN: Lori Faha</b>			PHONE (HM)
PHONE (WK) <b>541-317-3025</b>	CELL	FAX	
ADDRESS <b>62975 Boyd Acres Road</b>			
CITY <b>Bend</b>	STATE <b>OR</b>	ZIP <b>97701</b>	E-MAIL** <b>LFAHA@BENDOREGON.GOV</b>

### 2. DISTRICT or WATER SUPPLIER INFORMATION

DISTRICT/WATER SUPPLIER NAME <b>SWALLEY IRRIGATION DISTRICT</b>			PHONE (HM)
PHONE (WK) <b>541-388-0658</b>	CELL	FAX	
ADDRESS <b>64672 Cook Ave., Suite #1</b>			
CITY <b>BEND</b>	STATE <b>OR</b>	ZIP <b>97703</b>	E-MAIL** <b>kathy@swalley.com</b>

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\*\* By providing an e-mail address, the applicant and/or the district/water supplier consents to receive all correspondence from the Department electronically. Copies of final order documents will also be mailed.

### 3. WATER RIGHTS ISSUED IN THE NAME OF, or LOCATED WITHIN, or SERVED BY AN IRRIGATION DISTRICT, OTHER DISTRICT, OR WATER SUPPLIER

a. List the water right(s) involved in this transfer:

	Application / Decree	Permit / Previous Transfer	Certificate	Is the water right in the name of a district, water supplier, or BOR*?
1.	<b>G-5644</b>	<b>G-4946</b>	<b>68702</b>	YES <input type="checkbox"/>
2.	<b>G-8695</b>	<b>G-8565</b>	<b>85411</b>	YES <input type="checkbox"/>
3.	G-5644	G-4946	<b>85415</b>	YES <input type="checkbox"/>
4.	G-8695	G-8565	<b>94101</b>	YES <input type="checkbox"/>

Attach additional pages for additional water rights if necessary.

\*Bureau of Reclamation

b. Determine a district's/water supplier's connection to your points of diversion (POD) or appropriation (POA) and places of use (POU). [You may need to consult with your district/water supplier.]

**CURRENT ASSOCIATIONS** Please answer the following "yes" or "no" questions:

- YES  NO  One or more of the current POD(s) / POA(s) involved in the transfer are served by a district/water supplier or rely on BOR water.
- YES  NO  All or a portion of the current POU involved in this proposed transfer receives water for either primary or supplemental irrigation from the district/water supplier; i.e., the POU is currently layered with a district or BOR water supplied water right(s).

**PROPOSED ASSOCIATIONS** Please answer the following "yes" or "no" questions:

- YES  NO  One or more of the proposed POD(s) / POA(s) involved in the transfer are currently served or will be served by a district/water supplier if the transfer is approved, or rely on BOR water.
- YES  NO  All or a portion of the proposed POU involved in this proposed transfer currently receives or will receive either primary or supplemental irrigation from the district/water supplier; i.e., the POU will be layered with a district/water supplier or BOR water supplied water right(s).

**COMMENTS OR ADDITIONAL INFORMATION** A portion of the City's authorized place of use is within the SID service area, however, the subject water rights are not served by or issued in the name of the irrigation district and are for municipal use.

**4. APPLICANT'S SIGNATURE**

(1) I certify that I have notified the district/water supplier about the proposed water right transfer application by [check one]:

email,  phone,  postal mail,  in person, or  other (please specify) \_\_\_\_\_

(2) I certify that to the best of my knowledge the information contained in this Supplemental Form D is true and accurate.

  
Applicant Signature

Lori Faha  
Name (print)

9-12-24  
Date

**5. (WHEN REQUIRED) DISTRICT or WATER SUPPLIER CONSENT TO THE PROPOSED WATER RIGHT TRANSFER**

District Manager or Water Supplier consent is required if any box on this form is marked "YES."

The district/water supplier certifies the following:

- (1) The district/water supplier has reviewed the applicant's proposed water right transfer application and maps; and
- (2) The district/water supplier consents to the proposed water right transfer application.

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YES  NO  After proof of completion, the confirming water right certificate is to remain in the name of the U.S. Bureau of Reclamation or the district/water supplier.

YES  NO  The district/water supplier will be responsible for submitting the claim of beneficial use prepared by a Certified Water Rights Examiner (CWRE).

\_\_\_\_\_  
Signature of District Manager /Water Supplier

\_\_\_\_\_  
Name (print), Title

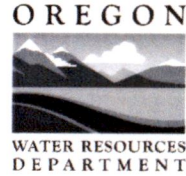
\_\_\_\_\_  
Date

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# Supplemental Form D

## Water Right Transfers Within the Boundaries of or Served by an Irrigation District or other Water Supplier (Association, Ditch Co., etc.)

[For transfers submitted under OAR Chapter 690 Division 380]



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

The Department requires non-district applicants to communicate with districts/water suppliers during the planning and preparation of transfer applications involving water rights having a point of diversion or appropriation (POD/POA) or place of use (POU) served by or located within the boundaries of an irrigation district, or other type of water supplier to which assessments are paid. In some cases consent will be required from the district or water supplier.

This form must be included with any transfer application that involves rights served by or located within the boundaries of a district or other type of water supplier.

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### 1. APPLICANT INFORMATION

OWRD

NAME <b>City of Bend, ATTN: Lori Faha</b>			PHONE (HM)
PHONE (WK) <b>541-317-3025</b>	CELL	FAX	
ADDRESS <b>62975 Boyd Acres Road</b>			
CITY <b>Bend</b>	STATE <b>OR</b>	ZIP <b>97701</b>	E-MAIL** <b>LFAHA@BENDOREGON.GOV</b>

### 2. DISTRICT or WATER SUPPLIER INFORMATION

DISTRICT/WATER SUPPLIER NAME <b>TUMALO IRRIGATION DISTRICT</b>			PHONE (HM)
PHONE (WK) <b>541-382-3053</b>	CELL	FAX	
ADDRESS <b>64697 Cook Ave, Tumalo</b>			
CITY <b>BEND</b>	STATE <b>OR</b>	ZIP <b>97703</b>	E-MAIL** <b><a href="mailto:april@tumalo.org">april@tumalo.org</a></b>

\*\* By providing an e-mail address, the applicant and/or the district/water supplier consents to receive all correspondence from the Department electronically. Copies of final order documents will also be mailed.

### 3. WATER RIGHTS ISSUED IN THE NAME OF, or LOCATED WITHIN, or SERVED BY AN IRRIGATION DISTRICT, OTHER DISTRICT, OR WATER SUPPLIER

a. List the water right(s) involved in this transfer:

	Application / Decree	Permit / Previous Transfer	Certificate	Is the water right in the name of a district, water supplier, or BOR*?
1.	<b>G-5644</b>	<b>G-4946</b>	<b>68702</b>	YES <input type="checkbox"/>
2.	<b>G-8695</b>	<b>G-8565</b>	<b>85411</b>	YES <input type="checkbox"/>
3.	G-5644	G-4946	<b>85415</b>	YES <input type="checkbox"/>
4.	G-8695	G-8565	<b>94101</b>	YES <input type="checkbox"/>

Attach additional pages for additional water rights if necessary.

\*Bureau of Reclamation

b. Determine a district's/water supplier's connection to your points of diversion (POD) or appropriation (POA) and places of use (POU). [You may need to consult with your district/water supplier.]

**CURRENT ASSOCIATIONS** Please answer the following "yes" or "no" questions:

YES  NO  One or more of the current POD(s) / POA(s) involved in the transfer are served by a district/water supplier or rely on BOR water.

YES  NO  All or a portion of the current POU involved in this proposed transfer receives water for either primary or supplemental irrigation from the district/water supplier; i.e., the POU is currently layered with a district or BOR water supplied water right(s).

**PROPOSED ASSOCIATIONS** Please answer the following "yes" or "no" questions:

YES  NO  One or more of the proposed POD(s) / POA(s) involved in the transfer are currently served or will be served by a district/water supplier if the transfer is approved, or rely on BOR water.

YES  NO  All or a portion of the proposed POU involved in this proposed transfer currently receives or will receive either primary or supplemental irrigation from the district/water supplier; i.e., the POU will be layered with a district/water supplier or BOR water supplied water right(s).

**COMMENTS OR ADDITIONAL INFORMATION** A portion of the City's authorized place of use is within the TID service area, however, the subject water rights are not served by or issued in the name of the irrigation district and are for municipal use.

**4. APPLICANT'S SIGNATURE**

(1) I certify that I have notified the district/water supplier about the proposed water right transfer application by [check one]:

email,  phone,  postal mail,  in person, or  other (please specify) \_\_\_\_\_

(2) I certify that to the best of my knowledge the information contained in this Supplemental Form D is true and accurate.

  
Applicant Signature

Lori Faha  
Name (print)

9/12/24  
Date

**5. (WHEN REQUIRED) DISTRICT or WATER SUPPLIER CONSENT TO THE PROPOSED WATER RIGHT TRANSFER**

District Manager or Water Supplier consent is required if any box on this form is marked "YES."

The district/water supplier certifies the following:

(1) The district/water supplier has reviewed the applicant's proposed water right transfer application and maps; and

(2) The district/water supplier consents to the proposed water right transfer application.

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YES  NO  After proof of completion, the confirming water right certificate is to remain in the name of the U.S. Bureau of Reclamation or the district/water supplier.

YES  NO  The district/water supplier will be responsible for submitting the claim of beneficial use prepared by a Certified Water Rights Examiner (CWRE).

\_\_\_\_\_  
Signature of District Manager /Water Supplier

\_\_\_\_\_  
Name (print), Title

\_\_\_\_\_  
Date

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# Attachment E

Land Use Information Forms

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Application for Permanent Water Right Transfer - City of Bend

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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  
www.wrd.state.or.us

## 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 ground water 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 503-986-0801.

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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  
 www.wrd.state.or.us

Applicant(s): City of Bend, ATTN: Lori Faha

Mailing Address: 62975 Boyd Acres Road

City: Bend State: OR Zip Code: 97701 Daytime Phone: 541-317-3025

## 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:
<u>17 S</u>	<u>12 E</u>	<u>33</u>	<u>NENE</u>	<u>171233A000105</u>	<u>PF</u>	<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>

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

City of Bend; Deschutes County

## 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 Ground Water Registration Modification  
 Limited Water Use License   
  Allocation of Conserved Water   
  Exchange of Water

Source of water:  Reservoir/Pond     Ground Water     Surface Water (name) \_\_\_\_\_

Estimated quantity of water needed: 6.05     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 \_\_\_\_\_

Briefly describe:

The City of Bend is requesting to add five additional wells (Pilot Butte 3, Outback Wells 5, 6, 8 and 9) to its water right Certificates 68702, 85411, 85415, and 94101. Outback Wells 5, 6, 8 and 9 are located outside city limits. A separate land use information form is being provided to the Deschutes County for Outback Wells 5, 6, 8 and 9.



**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.

See bottom of Page 3. →

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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.

**Please check the appropriate box below and provide the requested information**

- 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): Land use is permitted under BDC Chapter 2.6 Public Facilities Zoning District
- 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:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> 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.

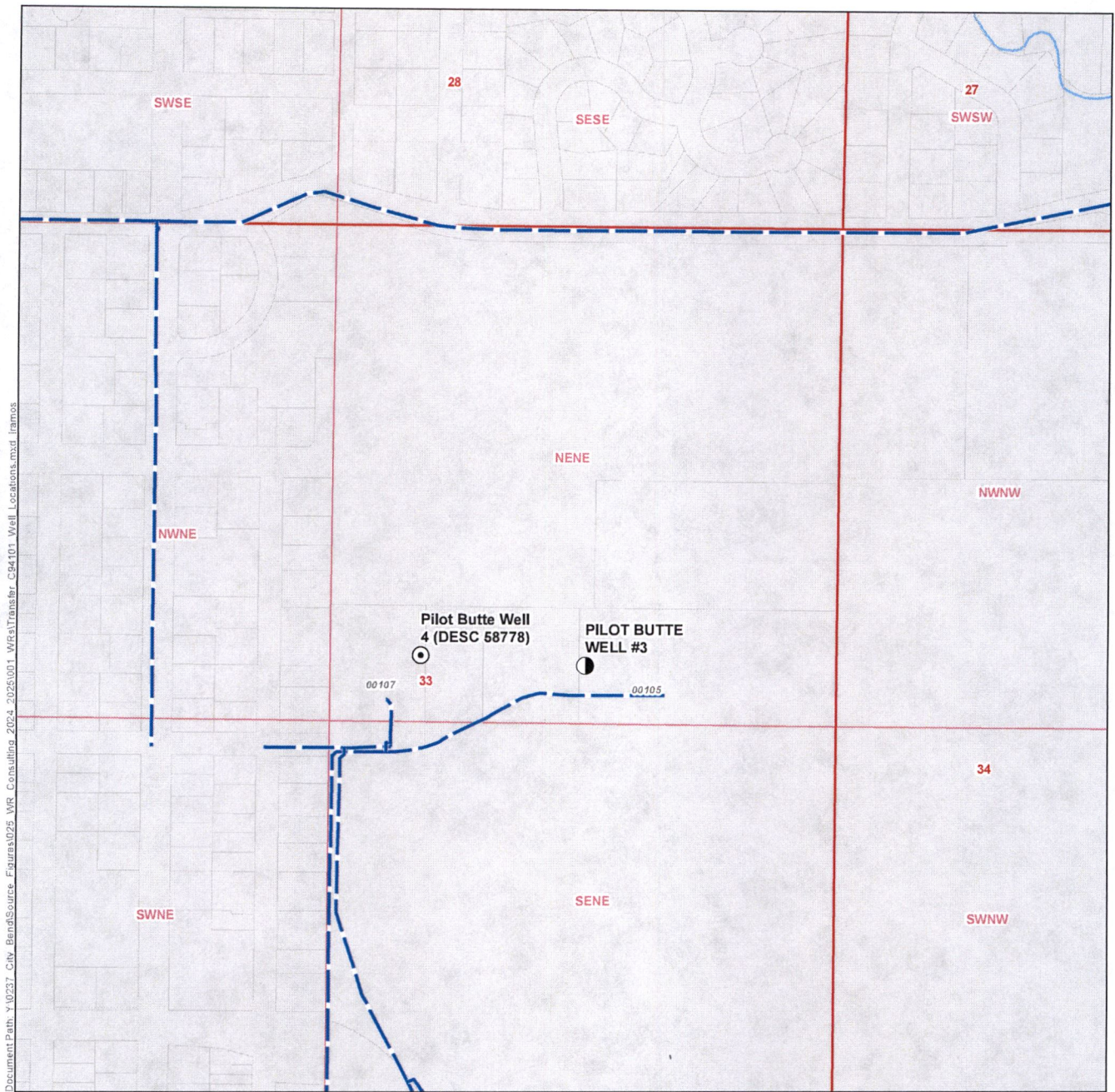
Name: Sheila Pyott Title: Assist. Planner  
 Signature: Sheila Pyott Phone: 5416932123 Date: 9/9/2024  
 Government Entity: City of Bend

**Note to local government representative:** Please complete this form or sign the receipt below and return 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: \_\_\_\_\_

Received  
SEP 30 2024



Document Path: \\0237-City\_Bend\Source\_Figures\025\_WR\_Consulting\_2024\_2025\001\_WRA\Transfer\_C24101\_Well\_Locations.mxd [frames]

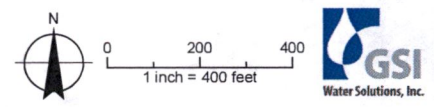
- LEGEND**
- Point of Appropriation (POA)**
- Authorized
  - Proposed
- All Other Features**
- Conveyance Line
  - Authorized Place of Use (POU)
  - Tax Lot
  - Government Lot (GL)
  - City Boundary
  - Service Area Boundary
  - ~ Watercourse
  - ~ Waterbody

**Application for a Water Right Transfer**  
**City of Bend**  
**Authorized and Proposed Points of Appropriation**  
 Certificates 68702, 85411, 85415, 94101  
 Deschutes County

**DISCLAIMER**  
 This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

Date: August 22, 2024  
 Data Sources: BLM, ESRI, OWRD, USGS

Received  
 SEP 30 2024  
 OWRD



# Land Use Information Form



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

## NOTE TO APPLICANTS

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SEP 30 2024

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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  
 www.wrd.state.or.us

Applicant(s): City of Bend, ATTN: Lori Faha

Mailing Address: 62975 Boyd Acres Road

City: Bend State: OR Zip Code: 97701 Daytime Phone: 541-317-3025

## 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:
<u>17 S</u>	<u>11 E</u>	<u>34</u>	<u>SESW</u> <u>SWSE</u>	<u>1711340000800</u>	<u>RR10</u>	<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input checked="" type="checkbox"/> Used	<u>Municipal</u>

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

City of Bend; Deschutes County

## 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 Ground Water Registration Modification  
 Limited Water Use License    Allocation of Conserved Water    Exchange of Water

Source of water:  Reservoir/Pond    Ground Water    Surface Water (name) \_\_\_\_\_

Estimated quantity of water needed: 6.05    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 \_\_\_\_\_

Briefly describe:

The City of Bend is requesting to add five additional wells (Pilot Butte 3, Outback Wells 5, 6, 8 and 9) to its water right Certificates 68702, 85411, 85415, and 94101. Outback Wells 5, 6, 8 and 9 are located outside city limits. A separate land use information form is being provided to the City for Pilot Butte Well 3.

**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.

See bottom of Page 3. →

Received  
 SEP 30 2024  
 OWRD

# 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.

**Please check the appropriate box below and provide the requested information**

- 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): TITLE 18
- 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:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> 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.

Name: WELL GROVES Title: PLANNING MANAGER  
 Signature: [Signature] Phone: 541 389 6518 Date: 9/9/24  
 Government Entity: DESCHUTES COUNTY

**Note to local government representative:** Please complete this form or sign the receipt below and return 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.

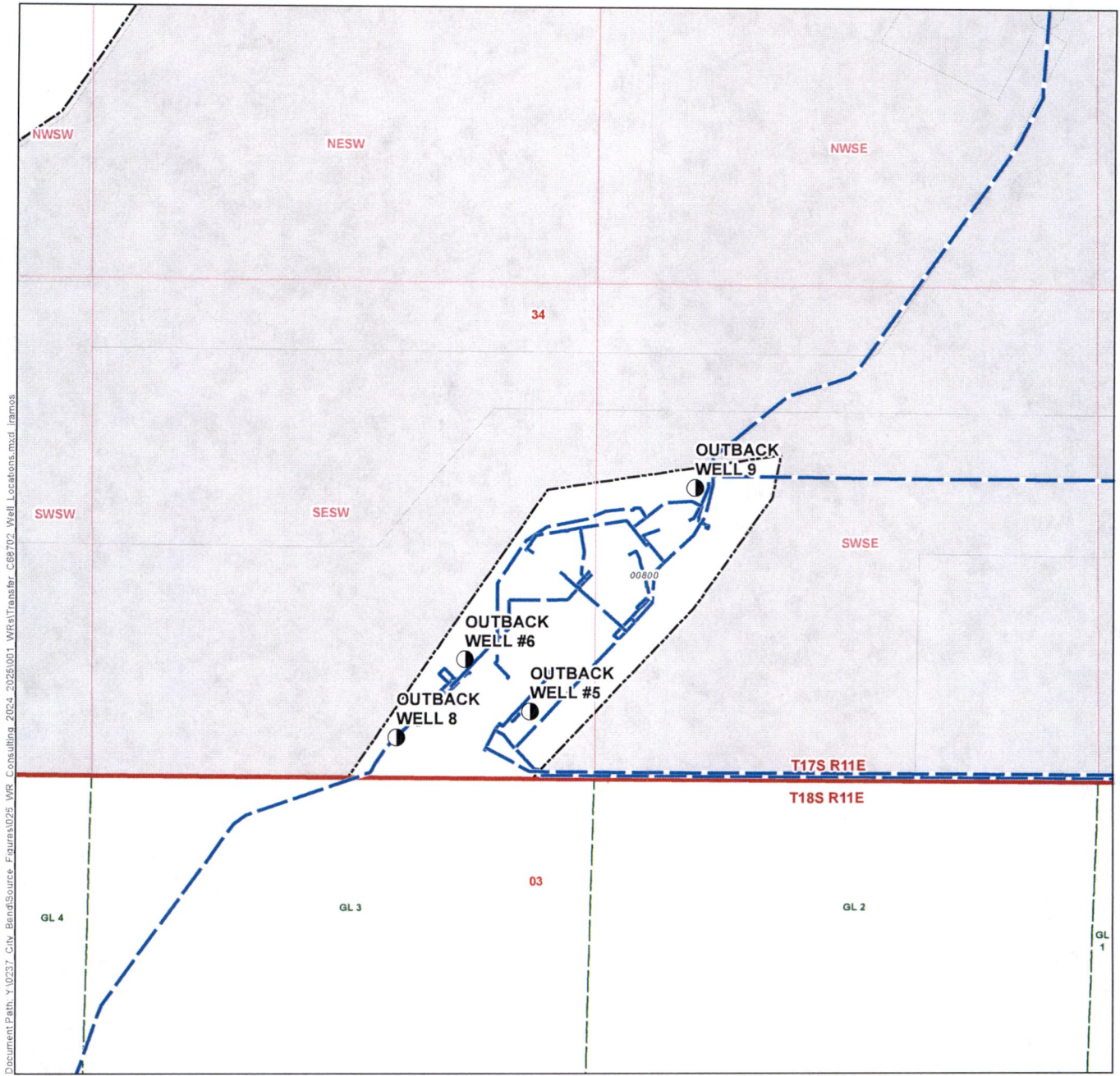


**Receipt for Request for Land Use Information**

Applicant name: \_\_\_\_\_  
 City or County: \_\_\_\_\_ Staff contact: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Phone: \_\_\_\_\_ Date: \_\_\_\_\_

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 SEP 30 2024  
 OWRD





Document Path: Y:\0237 - City Bend\Source - Figures\025 WRS - Consulting 2024\_2025\001 WRS\Transfer - C68702 - Well Locations.mxd Iramos

- LEGEND**
- Point of Appropriation (POA)**
- Proposed
- All Other Features**
- Conveyance Line
  - Authorized Place of Use (POU)
  - Tax Lot
  - Government Lot (GL)
  - Service Area Boundary
  - ~ Watercourse
  - Waterbody

**Application for a Water Right Transfer**  
**City of Bend**  
**Proposed Points of Appropriation**  
 Certificates 68702, 85411, 85415, 94101  
 Deschutes County

**DISCLAIMER**  
 This map was prepared for the purpose of identifying the location of a water right only and it is not intended to provide legal dimensions or location of property ownership lines.

Received  
 SEP 30 2024  
 OWRD

Date: August 22, 2024  
 Data Sources: BLM, ESRI, OWRD, USGS

Outback Well 5	DESC 56371
Outback Well 6	DESC 56449
Outback Well 7	DESC 57760
Pilot Butte Well 3	DESC 52907
Pilot Butte Well 4	DESC 58778
River Well 1	DESC 5577
River Well 2	DESC 5578
Shiloh Well 3	DESC 5613
Westwood Well	DESC 5585 / DESC 5586
Outback Well 8	N/A
Outback Well 9	N/A

## Attachment F

Well Logs

Application for Permanent Water Right Transfer – City of Bend

Received  
SEP 30 2024  
OWRD

STATE OF OREGON  
**WATER SUPPLY WELL REPORT**  
 (as required by ORS 537.765)

(WELL I.D.)# L 72463

(START CARD) # 147290

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

(1) OWNER: Well Number **Outback #5**  
 Name **City of Bend**  
 Address **PO Box 431**  
 City **Bend** State **OR** Zip **97709**

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

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other **Reverse Circulation Rotary**

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

(5) BORE HOLE CONSTRUCTION:  
 Special Construction approval  Yes  No Depth of Completed Well **861** ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
26	0	8	Cement & Bent	0	160	334 sks
20	8	635	Intermediate	Seal	ing	Material:
15	635	861	Bentonite	160	615	40,200 pounds
			Cement	615	625	175 sks

How was seal placed: Method  A  B  C  D  E  
 Other **Bentonite was poured & probed**  
 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: 16	+3	625	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 12	615	861	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

Perforations Method **Factory mill cut**  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
619	861	3/16x3	11520			<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
1500	0.3 feet		1 hr.
1500	0.75 feet		24 hours

Temperature of water **~52F** Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom \_\_\_\_\_  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:  
 County **Deschutes** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township **17** S Range **11** E WM.  
 Section **34** SW 1/4 SE 1/4  
 Tax Lot **6202** Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) **18900 Skyliners Rd**  
**Bend, OR 97701**

(10) STATIC WATER LEVEL:  
**486** ft. below land surface. Date **10/7/04**  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found **624**

From	To	Estimated Flow Rate	SWL
624	861	see #8	see #10

(12) WELL LOG:  
 Ground Elevation \_\_\_\_\_

Material	From	To	SWL
see attached formation log			

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WATER RESOURCES DEPT  
 SALEM, OREGON

Date started **3/19/04** Completed **10/12/04**

(unbonded) Water Well Constructor Certification:  
 I certify that the work I performed on the construction, 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.  
 Signed *[Signature]* WWC Number **1695**  
 Date **11/9/04**

(bonded) Water Well Constructor Certification:  
 I accept responsibility for the construction, 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.  
 Signed *[Signature]* WWC Number **649**  
 Date **11/9/04**

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SEP 30 2004

OWRD

**City of Bend Outback Well #5**by **Schneider Drilling Co.**

Start Card #W147290 Label #L72463

<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u>
0	2	Top soil & cobbles
2	8.5	Basalt, soil, boulders, cobbles
8.5	21	Conglomerate, red, cindery
21	27	Basalt, grey, hard
27	68	Basalt, grey & some red, vesicular
68	70	Pumice, tan & basalt, grey
70	210	Pumice, tan, cinders, vesicular, grey
210	230	Pumice, white & cinders, red & grey
230	255	Pumice, tan & cinders, brown & red & basalt, grey
255	342	Basalt, grey & red & pumice, tan
342	355	Basalt, vesicular, grey & red, pumice, tan
355	365	Basalt, grey & red & pumice, tan
365	370	Basalt, grey & cinders, red w/ some Pumice, tan
370	388	Cinders, red & basalt, grey w/some pumice, tan
388	397	Cobbles & Gravel, cemented
397	417	Cinders, red & basalt, grey, vesicular
417	430	Basalt, grey, hard w/some cinders, red
430	446	Cinders, red, soft
446	468	Basalt, grey, medium-hard
468	550	Cinders, red & black
550	620	Pumice, tan & cinders red & black
620	624	Basalt, grey, hard
624	642	Cinders, soft
642	649	Basalt, black
649	666	Cinders, red & black
666	669	Cinders, red
669	696	Cinders, red & black
696	714	Basalt, grey
714	723	Basalt, red
723	742	Cinders, red
742	753	Basalt, grey, hard
753	757	Basalt, brown, vesicular
757	763	Basalt, black, broken
763	767	Cinders, black & red
767	779	Cinders, red
779	787	Basalt, grey, hard
787	833	Basalt, grey, hard, some fractures
833	837	Basalt, red & black
837	852	Basalt, tan & black
852	861	Basalt, brown, fractured

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WATER RESOURCES DEPT  
SALEM, OREGON

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SEP 30 2024

Amendment

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

(WELL I.D.)# L 67857 (amended DESC 56449) (START CARD) # 164709

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

(1) OWNER: Well Number Outback #6 Name City of Bend Address P.O. Box 431 City Bend State Or Zip 97701

(2) TYPE OF WORK [X] New Well [ ] Deepening [ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD: [X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger [X] Other Reverse Circulation, Dual Rotary

(4) PROPOSED USE: [ ] Domestic [X] Community [ ] Industrial [ ] Irrigation [ ] Thermal [ ] Injection [ ] Livestock [ ] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [ ] Yes [X] No Depth of Completed Well 864 ft. Explosives used [ ] Yes [X] No Type Amount

Table with columns: Diameter, From, To, Material, From, To, Sacks or pounds. Rows for 20" and 16" diameters with cement seal.

How was seal placed: Method [ ] A [ ] B [X] C [ ] D [ ] E [ ] Other Backfill placed from 160 ft. to 460 ft. Material sand grout Gravel placed from 480 ft. to 502 ft. Size of gravel 1/4

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for 16" casing and 12" liner.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Material, Casing, Liner. Includes Perforations Method Factory.

(8) WELL TESTS: Minimum testing time is 1 hour. [X] Pump [ ] Bailer [ ] Air [ ] Flowing Artesian. Yield 1,450 gal/min, Drawdown 1', Time 24 hr.

Temperature of water 53 F Depth Artesian Flow Found Was a water analysis done? [X] Yes By whom City of Bend Did any strata contain water not suitable for intended use? [ ] Too little [ ] Salty [ ] Muddy [ ] Odor [ ] Colored [ ] Other

(9) LOCATION OF WELL by legal description: County Deschutes Latitude Longitude Township 17 S Range 11 E WM. Section 34 SW 1/4 SE 1/4 Tax Lot 6202R2 Lot Block Subdivision Street Address of Well (or nearest address) 15900 Skyliner Rd., Bend, OR 97701

(10) STATIC WATER LEVEL: 480 ft. below land surface. Date 11/02/04 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Table with columns: From, To, Estimated Flow Rate, SWL. Rows for 115, 516, 638 depths.

(12) WELL LOG: Ground Elevation

Well log table with columns: Material, From, To, SWL. Includes 'RECEIVED FEB 24 2005 WATER RESOURCES DEPT SALEM, OREGON' and '\*\*\* SEE ATTACHED LOG \*\*\*'

Date started 06/14/04 Completed 11/24/04

(unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Signed [Signature] WWC Number 1702 Date 02-21-05

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. Signed [Signature] WWC Number 1523 Date 02-21-05

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STATE OF OREGON  
**WATER SUPPLY WELL REPORT**  
(as required by ORS 537.765)

(WELL I.D.)# **L 67857**  
 (START CARD)# **164709**

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

(1) OWNER: Well Number **Outback #6**  
 Name **City of Bend**  
 Address **P.O. Box 431**  
 City **Bend** State **Or** Zip **97701**

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

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other **Reverse Circulation, Dual Rotary**

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

(5) BORE HOLE CONSTRUCTION:  
 Special Construction approval  Yes  No Depth of Completed Well **864** ft  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE		SEAL	
Diameter	From To	Material	From To Sacks or pounds
20"	0 502'	Cement	460' 480' 5 yards
16"	502' 864'		0 160' 11 yards

How was seal placed Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from **160** ft to **460** ft Material **sand grout**  
 Gravel placed from **480** ft to **502** ft Size of gravel **1/4**

(6) CASING/LINER:

Diameter	From To	Gauge	Steel	Plastic	Welded	Threaded
Casing 16"	+1 675'	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner 12"	662.1' 864'		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of sheet(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

Perforations Method **Factory**  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
664'	864'	3/16x3	9,120	12"		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump  Bailor  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
1,450	1'		24 hr

Temperature of water **53 F** Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom **City of Bend**  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata \_\_\_\_\_

(9) LOCATION OF WELL by legal description:  
 County **Deschutes** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township **17** S Range **11** E WM  
 Section **34** SW 1/4 SE 1/4  
 Tax Lot **8202R2** Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) **15900 Skyliner Rd., Bend, OR 97701**

(10) STATIC WATER LEVEL:  
**480** ft. below land surface. Date **11/02/04**  
 Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found **115'**

From	To	Estimated Flow Rate	SWL
115	125	30	115
516	582	200 gpm	480
638	864	Rev.Circ- unmeasurable	480

(12) WELL LOG:  
 Ground Elevation \_\_\_\_\_

Material	From	To	SWL
*** SEE ATTACHED LOG ***			
<b>RECEIVED</b>			
<b>DEC 15 2004</b>			
<b>WATER RESOURCES DEPT</b>			
<b>SALEM, OREGON</b>			

Date started **06/14/04** Completed **11/24/04**

(unbonded) Water Well Constructor Certification:  
 I certify that the work I performed on the construction, 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.  
 Signed *[Signature]* WWC Number **26602** Date **11/24/04**

(bonded) Water Well Constructor Certification:  
 I accept responsibility for the construction, 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.  
 Signed *[Signature]* WWC Number **1523** Date **12-02-04**

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SEP 30 2024

OWRD



Geo-Tech Explorations  
 A Division of ~~Geo-Tech Explorations~~  
 19700 SW Teton Ave  
 Tualatin, OR 97062  
 503-692-6400  
 503-692-4759 (fax)

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DEC 15 2004

WATER RESOURCES DEPT  
 SALEM, OREGON

Start Card: 164709  
 Well Label: L67857  
 Boring #: Outback #6

Soil Profile Continued from Log:

Material	From	To	SWL
Soil	0	4	
Broken Brown Rubble	4	12	
Broken Pumice	12	46	
Basalt – black & red	46	51	
Basalt – gray	51	115	
Basalt (soft) – red	115	260	115
Basalt – black	260	380	
Lava Pumice – brown & red	380	435	
Basalt – brown & red	435	446	
Red lava rock	446	472	
Basalt – black w/ brown	472	516	
Lava – brown & red	516	582	480
Cinders – brown & red	582	620	↓
Basalt – brown	620	638	↓
Lava – black & brown (caving)	638	658	↓
Red cinders (caving)	658	689	↓
Basalt – black w/ red	689	691	↓
Basalt – gray	691	700	↓
Lava – gray w/ red	700	705	↓
Basalt – brown w/ red lava	705	710	↓
Red Cinders	710	744	↓
Basalt – gray	744	751	↓
Red Cinders	751	780	↓
Basalt - gray	780	801	↓
Basalt – gray & red	801	831	↓
Basalt – red	831	836	↓
Red Cinders	836	864	480

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SEP 30 2024

OWRD

**DESC 57760**

STATE OF OREGON  
**WATER SUPPLY WELL REPORT**  
(as required by ORS 537.765)

(WELL ID) # **L 72483**  
 (START CARD) # **168799**

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

(1) OWNER: Well Number **Outback #7**  
 Name **USFS Deschutes National Forest** (Lessee: **City of Bend**)  
 Address **1001 Emkay** (Lessee: **PO Box 431**)  
 City **Bend** State **OR** Zip **97702**

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

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other **Reverse Circulation Rotary**

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

(5) BORE HOLE CONSTRUCTION:  
 Special Construction approval  Yes  No Depth of Completed Well **860.5** ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
23	0	14	cement	0	160	128 sacks
20 nom	14	612	Intermediate	Sealing	Material:	
15	612	860.5	Bentonite	160	575	28,200 pounds
			Cement	575	612	110 sacks

How was seal placed: Method  A  B  C  D  E  
 Other **Bentonite was poured & probed**  
 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: 16	+2	612	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 12	602.5	860.5	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

Perforations Method **factory mill cut**  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
610.5	860.5	3/16x3	11424			<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
1470	0.8		1 hr.
1470	0.8		24 hr

Temperature of water **~52F** Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom \_\_\_\_\_  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:  
 County **Deschutes** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township **18** S Range **11** E WM.  
 Section **3** NE 1/4 of NW 1/4  
 Tax Lot **200** Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) **18900 Skyliners Rd**  
**Bend, OR 97709**

(10) STATIC WATER LEVEL:  
**469.5** ft. below land surface. Date **10/17/06**  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found **trace 456+; significant @ 612'**

From	To	Estimated Flow Rate	SWL
612	860	see (8)	see (10)
456+	528-	trace	456

(12) WELL LOG:  
 Ground Elevation \_\_\_\_\_

Material	From	To	SWL
<b>see attached formation log</b>			
<div style="display: flex; flex-direction: column; justify-content: center; align-items: center;"> <div style="border: 1px solid blue; padding: 5px; color: blue; margin-bottom: 10px;">Received</div> <div style="color: blue; font-size: 1.2em;">SEP 30 2024</div> <div style="margin-bottom: 10px;">OWRD</div> <div style="border: 2px solid black; padding: 10px; text-align: center; width: 80%;"> <div style="font-size: 1.5em; font-weight: bold; letter-spacing: 0.2em;">RECEIVED</div> <div style="font-size: 1.2em; margin: 5px 0;">DEC 08 2006</div> <div style="font-size: 0.8em; margin: 5px 0;">WATER RESOURCES DEPT SALEM, OREGON</div> </div> </div>			

Date started **3/15/06** Completed **10/20/06**

(unbonded) Water Well Constructor Certification:  
 I certify that the work I performed on the construction, 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, 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 **649**  
 Signed *Stephen R. Schneider* Date **11/3/06**



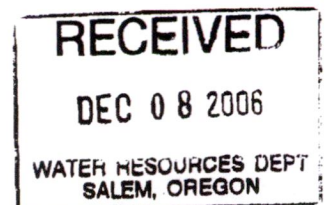
# DESC 57760

## USFS Deschutes National Forest / City of Bend Outback Well #7

by Schneider Drilling Co.

Start Card #168799 Label #L72483

<u>FM</u>	<u>TO</u>	<u>DESCRIPTION</u>
0	2	Top soil and basalt, broken
2	10	Basalt, grey, medium
10	16	Basalt, grey, medium, fractured
16	47	Basalt, grey, medium w/seams of red
47	66	Cinders, red w/seams of basalt, grey, medium
66	106	Pumice, white
106	157	Cinders, red w/seams of basalt, grey, medium & pumice, white
157	166	Pumice, tan
166	373	Pumice, tan & basalt, grey, medium & cinders, red
373	385	Basalt, grey, hard
385	397	Pumice, tan & basalt, grey, medium
397	400	Basalt, grey, hard, fractured
400	410	Cinders, red, soft
410	426	Basalt, grey hard
426	460	Basalt, grey, medium-hard interbedded with basalt, black, broken & cinders, black & red
460	475	Cinders, red w/black & pumice, tan; soft
475	508	Pumice, tan & cinders, red w/black; very soft
508	528	Cinders, red w/black, soft
528	548	Cinders, red & black, w/pumice, tan & some basalt chips, black
548	555	Cinders, red & black w/some pumice, tan
555	608	Pumice, tan w/cinders, red & black
608	610	Pumice, tan w/cinders, red-brown
610	639	Basalt, grey, hard, some fractures
639	647	Basalt, grey, hard-medium, wome fractures, w/some basalt, brown, fracture, occ vesicles
647	656	Basalt, grey, hard, some fractures
656	673	Basalt, grey red & brown, medium-soft, broken, some vesicles, some cinders
673	687	Cinders, red & brown, soft, broken, some vesicles
687	704	Basalt, grey hard
704	712	Basalt, red & grey, medium-hard
712	717	Cinders, red, soft
717	726	Basalt, dark red w/some grey, medium-hard
726	732	Basalt, grey, medium-hard
732	740	Basalt, dark red & grey, medium-hard, vesicular
740	743	Basalt, grey w/some red, medium-hard
743	745	Basalt, grey, hard
745	767	Basalt, grey red & brown, medium-soft, broken, some vesicles, some cinders
767	774	Basalt, dark red, medium, broken, w/some cinders, red
774	781	Basalt, red, soft, cindery w/some grey basalt
781	782	Basalt, grey red brown, medium-hard, w/some red cinders
782	832	Basalt, grey w/some red, hard, fractured
832	852	Basalt, red w/some brown, medium, fractured w/cinders & some pumice
852	860.5	Basalt, grey w/some red, hard, fractured & some cinders



Received  
SEP 30 2024  
OWRD

WATER SUPPLY WELL REPORT

DESC 52907 Amendment

Received Date 04/10/2000

Well ID Tag # L 39583

Start Card # 124991

(as required by ORS 537.765)

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

**(1) OWNER** Well Number

Name **CITY OF BEND**

Street **PO BOX 431**

City **BEND** State **OR** Zip **97709**

**(2) TYPE OF WORK**

New  Alter (Recondition)  Alter (Repair)

Deepening  Abandonment

**(3) DRILL METHOD**

Rotary Air  Rotary Mud  Cable  Auger

Other

**(4) PROPOSED USE**

Domestic  Community  Industrial  Irrigation  Injection

Livestock  Thermal  Other

**(5) BORE HOLE CONSTRUCTION**

Special Standards  Depth of completed well **1140** ft.

Explosives Used  Amount Type

How as seal placed: Method Other

Backfill placed from ft. TO ft. Material

Filter pack from ft. TO ft. Size in.

**(6) CASING/LINER**

Casing or Liner	Diameter	Begin Depth	End Depth	Gauge	Material	Construction Weld	Threaded	Location Of Shoe
C	14.00	0.00	862.00	.375	S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**(7) PERFORATION/SCREENS**

Perforation: Method

Screens Type Material

**(8) WELL TESTS (Minimum testing time is 1 hour)**

Type	Yield	Units	Drawdown	Stem at	Duration
Pump	1000.0	G	30.0		24.0

Temperature of water **53** °F/C Depth artesian flow found ft.

Was water analysis done?

By Whom?

Did any strata contain water not suitable for intended use?  Too Little  Salty

Muddy  Odor  Colored Other

Depth of strata ft.

**(9) LOCATION OF HOLE By legal description**

County **Deschutes** Latitude Longitude

Township **17.00 S** Range **12.00 E** Subdivision

Tax lot **101** Lot Block

Section **33 NE 1/4 NE 1/4**

Street Address of Well (or nearest address)  
**1402 NE LAFAYETTE**

MAP with location indentified must be attached

**(10) STATIC WATER LEVEL**

**786.0** Ft. below land surface. Date **02/15/2000**

Artesian Pressure lb/sq. in. Date

**(11) WATER BEARING ZONES**

Depth at which water was first found **815** ft.

**(12) WELL LOG** Ground Elevation ft.

Received  
SEP 30 2024  
OWRD

Date started **12/06/1999** Completed **03/24/2000**

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

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

Signed By **GREG MCINNIS** WWC Number **1464**  
**GEO-TECH EXPLORATIONS**

DESC  
52907

APR 10 2000

STATE OF OREGON  
WATER SUPPLY WELL REPORT  
(as required by ORS 537.765)

WATER RESOURCES DEPT.  
SALEM, OREGON

WELL I.D. # L. 39583

START CARD # 124991

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

(1) OWNER: Well Number BB3  
Name City of Bend  
Address PO Box 431  
City Bend State OR Zip 97709

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

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other

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

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval  Yes  No Depth of Completed Well 1140 ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
20"	0	862	cement	0	150	134 bags
			cement	822	862	66 bags

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_

Backfill placed from 822 ft. to 150 ft. Material bent/sand grout  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 14"	0	862	375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

Perforations Method Factory  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
860	1140	1/8x3	13440	10"		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

<input checked="" type="checkbox"/> Pump	<input type="checkbox"/> Bailer	<input type="checkbox"/> Air	<input type="checkbox"/> Flowing Artesian
Yield gal/min	Drawdown	Drill stem at	Time
1,000	30		24 hrs.

Temperature of water 53 Depth Artesian Flow Found \_\_\_\_\_

Was a water analysis done?  Yes By whom \_\_\_\_\_

Did any strata contain water not suitable for intended use?  Too little

Salty  Muddy  Odor  Colored  Other \_\_\_\_\_

Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:  
County Deschutes Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 18 N or S Range 12 E or W. WM.  
Section 33 NE 1/4 NE 1/4  
Tax Lot 101 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 1402 NE Lafayette  
Bend, Oregon 97701

(10) STATIC WATER LEVEL:  
786 ft. below land surface. Date 2-15-00  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
Depth at which water was first found 815

From	To	Estimated Flow Rate	SWL
752	815	NA	752ft. 4"
871	1140	1,000+	786

(12) WELL LOG:  
Ground Elevation \_\_\_\_\_

Material	From	To	SWL
SEE ATTACHED SHEET			

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Date started December 6, 1999 Completed March 24, 2000

(unbonded) Water Well Constructor Certification:  
I certify that the work I performed on the construction, 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.

Signed [Signature] WWC Number 1672  
Date \_\_\_\_\_

(bonded) Water Well Constructor Certification:  
I accept responsibility for the construction, 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.

Signed [Signature] WWC Number 1464  
Date \_\_\_\_\_

START CARD #: 124991

FORMATION LOG FOR THE CITY OF BEND, PILOT BUTTE WELL #3  
BY GEO-TECH EXPLORATIONS, INC.

From/To	Material
0-6	Sand & Cobbles
6-352	Cinders, red, soft
352-370	Basalt, gray, hard
370-390	Lava & Pumice, soft, red
390-470	Lava, gray, porous
470-560	Basalt, fractured, gray
560-580	Basalt, broken
580-650	Basalt, fractured, gray
650-693	Basalt, gray, hard
693-700	Lava, red, medium
700-705	Basalt, weathered, soft
705-717	Basalt, gray, medium
717-725	Basalt, gray-red, porous
725-815	Basalt, gray, fractured, medium
815-854	Basalt, gray, broken
854-871	Basalt, fractured, hard
871-884	Lava, red & brown, loose
884-900	Lava, red & black, some cinders, red-pumice, soft
900-915	Lava, gray-black, soft
915-927	Basalt, gray, medium
927-940	Lava, gray-red, porous
940-973	Cemented pea gravels, weathered
973-987	Lava, gray, medium
987-1,040	Lava conglomerate
1,040-1,115	Lava, black & brown, soft
1,115-1,121	Basalt, gray, hard, pin holes
1,121-1,131	Lava, gray-brown, soft
1,131-1,141	Basalt, gray, hard

Received

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OWRD

# DESC 58778

**STATE OF OREGON**  
**WATER SUPPLY WELL REPORT**  
 (as required by ORS 537.765 & OAR 690-205-0210)

WELL LABEL # L 100376  
 START CARD # 1003631

**(1) LAND OWNER** Owner Well I.D. Pilot Butte Well #4  
 First Name \_\_\_\_\_ Last Name \_\_\_\_\_  
 Company CITY OF BEND  
 Address P.O. BOX 431  
 City BEND, State OR Zip 97701

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

**(3) DRILL METHOD**  
 Rotary Air  Rotary Mud  Cable  Auger  Cable Mud  
 Reverse Rotary  Other \_\_\_\_\_

**(4) PROPOSED USE**  Domestic  Irrigation  Community  
 Industrial/ Commercial  Livestock  Dewatering  
 Thermal  Injection  Other \_\_\_\_\_

**(5) BORE HOLE CONSTRUCTION** Special Standard  (Attach copy)  
 Depth of Completed Well 1,160 ft.

BORE HOLE			SEAL			sacks/ lbs
Dia	From	To	Material	From	To	
26	0	189	Cement	660	680	44 S
22	189	850	Cement	307	335	44 S
15	850	1,160	Cement	0	101	880 S

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from 335 ft. to 660 ft. Material Bentonite Chips  
 Filter pack from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_ Size \_\_\_\_\_  
 Explosives used:  Yes Type Deta Gel Amount 9 sticks 2x16

**(6) CASING/LINER**

Casing	Liner	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16		2	850	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	14		840	1,160	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Shoe  Inside  Outside  Other Location of shoe(s) 850  
 Temp casing  Yes Dia \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

**(7) PERFORATIONS/SCREENS**  
 Perforations Method Factory Saw  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

Perf	Casing/Screen	Liner	Dia	From	To	Scrns/slot width	Slot length	# of slots	Tele/pipe size
Perf	Casing	16	740	828	.188	3			16
Perf	Liner	14	849	938	.188	3			14
Perf	Liner	14	938	960	.25	3			14
Perf	Liner	14	960	1,004	.188	3			14
Perf	Liner	14	1,004	1,071	.25	3			14

**(8) WELL TESTS: Minimum testing time is 1 hour**  
 Pump  Bailer  Air  Flowing Artesian  

Yield gal/min	Drawdown	Drill stem/Pump depth	Duration (hr)
1,150	17	832	4
950	11	832	20

Temperature 51 °F Lab analysis  Yes By \_\_\_\_\_  
 Water quality concerns?  Yes (describe below)  

From	To	Description	Amount	Units

**(9) LOCATION OF WELL (legal description)**  
 County DESCHUTE Twp 17 S N/S Range 12 E E/W WM  
 Sec 33 NE 1/4 of the NE 1/4 Tax Lot 101  
 Tax Map Number \_\_\_\_\_ Lot \_\_\_\_\_  
 Lat \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD  
 Long \_\_\_\_\_ " or \_\_\_\_\_ DMS or DD  
 Street address of well  Nearest address

1402 N.E. LAFAYETTE

**(10) STATIC WATER LEVEL**  
 Date \_\_\_\_\_ SWL(psi) + SWL(ft)  

Existing Well/ Prodeepening	SWL(psi)	SWL(ft)
Completed Well	<u>06-24-2009</u>	<u>702</u>

 Flowing Artesian?  Dry Hole?

WATER BEARING ZONES Depth water was first found 684

SWL Date	From	To	Est Flow	SWL(psi)	+ SWL(ft)
11-28-2008	694	705	100		682
03-14-2009	705	850	1,000		687.5
06-04-2009	850	1,160	5,000		694
06-24-2009					702

**(11) WELL LOG** Ground Elevation 3,712

Material	From	To
See Attached Formation Log	0	1,160
Received		
SEP 30 2024		
OWRD		
WESTERN WATER DEVELOPMENT RECEIVED		
P.O. Box 1670		
REDMOND, OR 97756		
JUL 02 2009		
WATER RESOURCES DEPT		
SALEM, OREGON		

Date Started 06-06-2008 Completed 06-24-2009

**(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.  
 License Number \_\_\_\_\_ Date \_\_\_\_\_  
 Password: (if filing electronically) \_\_\_\_\_  
 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.  
 License Number 1385 Date 06-26-2009  
 Password: (if filing electronically) \_\_\_\_\_  
 Signed Robert Buckner  
 Contact Info (optional) \_\_\_\_\_



# DESC 58778

WESTERN WATER DEVELOPMENT  
P.O. Box 1670  
Redmond, OR 97756

Well: Pilot Butte Well #4  
Customer: City of Bend, Oregon

## Formation Geology Description

Material	From	To
Sandy Loam with Boulders	0	8
Broken Dark Gray Basalt	8	26
Black Vesicular Basalt	26	43
Broken Dark Gray Basalt	43	52
Black Vesicular Basalt	52	60
Dark Gray Basalt	60	74
Black / Red Basalt	74	95
Black / Red Basalt with Cinders	95	102
Black / Red Basalt	102	116
Vesicular Basalt with Cinders	116	130
Gray Basalt	130	144
Black / Red Basalt	144	152
Red Cinders	152	163
Hard Gray Basalt	163	170
Black / Red Basalt	170	181
Hard Gray Basalt	181	196
Red Cinders	196	202
Very Hard Gray Basalt	202	222
Red Cinders	222	228
Reddish Pumice & Gravels	228	250
Brown Pumice & Gravels	250	276
Brown Pumice & Sand	276	302
Broken Dark Gray Basalt	302	355
Hard Gray Basalt	355	367
Black Red Basalt	367	377
Brown Sandstone	377	388
Broken Black / Red Basalt	388	395
Void-Cement Grout	395	405
Hard Gray Basalt Slanted	405	414
Used Explosives to Straighten Borehole		
Black with Red / Brown Basalt	414	423
Brown Sandstone	423	437
Black Sandstone with Pumice	437	451
Hard Gray Basalt	451	463
Black & Red Basalt with Cinder Beds	463	474
Broken Gray Basalt	474	492
Broken Black Basalt	492	504
Broken Black & Red Basalt & Cinders	504	524
Hard Dark Gray Basalt	524	534
Very Hard Gray Basalt	534	541

Caving, cemented back to 500 ft. 10/31

Caving, cemented back to 495' on 11/3

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SALEM, OREGON

# DESC 58778

Material	From	To
Brown Sandstone	541	549
Dark Gray Basalt	549	578
Black & Red Broken Basalt	578	598
Broken Black Basalt	598	623
Brown Sandstone with Gravel	623	655
Dark Gray Basalt	655	664
Black & Red Basalt	664	694 SWL 682'
Vasicular with Ash Imbediments		
Broken Gray Basalt	694	705
Broken Black & Red Basalt	705	715
Redish Sandstone w/ Black & Red Gravels	715	743
Broken Black Basalt	743	755 SWL 685'
Hard Gray Basalt	755	766
Broken Black & Red Basalt w/ Red Cinders	766	780
Broken Vesicular Black, Red & Brown Basalt	780	790
Gray Basalt	790	813
Red Conglomerate	813	834 SWL 686.5'
Brown Sandstone	834	864
Black Basalt with Red Cinders	864	872
Brown Conglomerate	872	925
Black Basalt	925	958
(No Returns from 958'-970')		
Black Basalt with Red Cinder fragments and seams of Brown Ash	958	1035 687.5
No Returns	1035	1050
Black Basalt	1050	1080
No Returns	1080	1095
Black Basalt with Cinder Imbedaments	1095	1160

**Well Seal & Backfill Information**

Surface Grout Seal	40 yds cement grout	0	101
Bentonite Backfill	20 Super Sacks	101	307
Intermediate Seal	2 yds cement grout	307	335
Bentonite Backfill	33 Super Sacks	335	660
Bottom Grout Seal	2 yds cement grout	660	680

WESTERN WATER DEVELOPMENT  
P.O. Box 1670  
Redmond, OR 97756

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JUL 02 2009  
WATER RESOURCES DEPT  
SALEM, OREGON



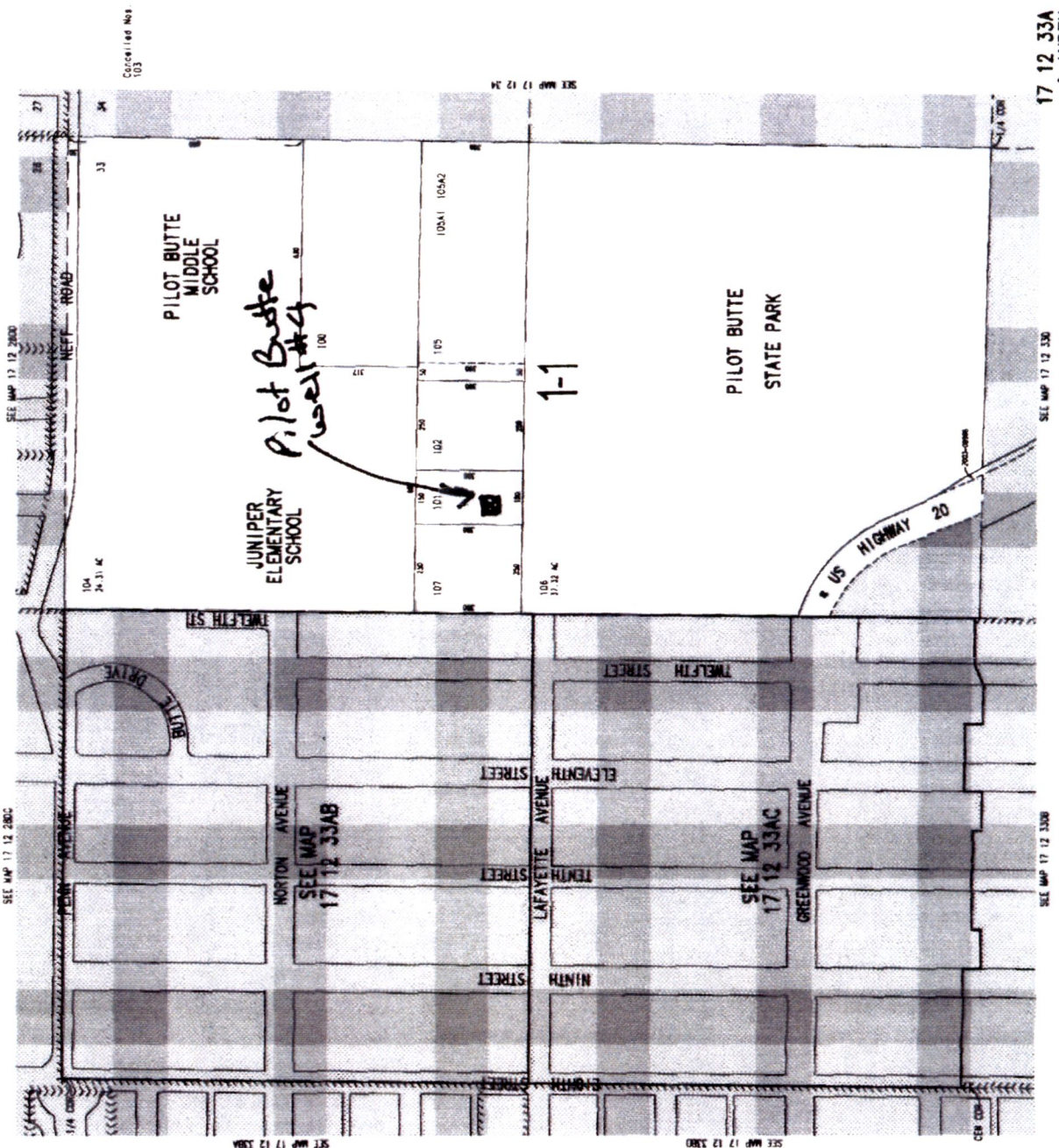
DESC 58778

17 12 33A  
& INDEX

17 12 33A  
& INDEX

DESC 58778  
NE 1/4 SEC. 33 T. 17S. R. 12E. W.M.  
DESCHUTES COUNTY

1" = 200'



THIS MAP WAS PREPARED FOR  
ASSESSMENT PURPOSE ONLY.  
REVISED: 03/27/2003

WESTERN WATER DEVELOPMENT  
P.O. Box 1670  
Redmond, OR 97756

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JUL 02 2009

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WATER RESOURCES DEPT  
SALEM, OREGON

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NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

RECEIVED NC WATER WELL REPORT DESG 5577 MAY 22 1972 STATE OF OREGON STATE ENGINEER SALEM, OREGON

State Well No. 18/12-5ac

State Permit No.

STATE ENGINEER, SALEM, OREGON 97310 (Please type or print) within 30 days from the date of well completion. SALEM, OREGON (Do not write above this line)

(1) OWNER:

Name CITY OF BEND Address P.O. Box 431 BEND, ORE.

(2) TYPE OF WORK (check):

New Well [x] Deepening [ ] Reconditioning [ ] Abandon [ ] If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [ ] Driven [ ] Cable [x] Jetted [ ] Dug [ ] Bored [ ]

(4) PROPOSED USE (check):

Domestic [ ] Industrial [ ] Municipal [x] Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:

24" Diam. from 0 ft. to 43 ft. Gage 375 16" Diam. from 0 ft. to 637 ft. Gage 312

(6) PERFORATIONS:

Perforated? [ ] Yes [x] No.

Type of perforator used

Size of perforations in. by in. perforations from ft. to ft.

(7) SCREENS:

Well screen installed? [ ] Yes [x] No

Manufacturer's Name Type Model No. Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? [x] Yes [ ] No If yes, by whom? STRASSER

Yield: 1837 gal./min. with 4 ft. drawdown after 24 hrs.

Baller test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water 50 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal-Material used SEE ATTACHED LETTER Well sealed from land surface to 24 AND 20 ft. Diameter of well bore to bottom of seal 20-16 AND 12 Number of sacks of cement used in well seal AND 8 YDS CONCRETE

(10) LOCATION OF WELL:

County DESCHUTES Driller's well number 5401 SW 1/4 NE 1/4 Section 5 T. 18 S. R. 12 E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 119 ft. Static level 564 ft. below land surface. Date 4/4/72 Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 16 AND 12

Depth drilled 900 ft. Depth of completed well 900 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation.

Table with columns: MATERIAL, From, To, SWL. Content: SEE ATTACHED SHEET

Work started NOV. 1, 1971 Completed APR 24 1972 Date well drilling machine moved off of well APR 27 1972

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief. [Signed] Glenn Rydman Date 5/11, 1972

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Name R. STRASSER DRILLING CO Address 8110 SE SUNSET LANE PORTLAND ORE [Signed] Robert L. Strasser Contractor's License No. 10 Date MAY 18, 1972

*R. J. Strasser Drilling Co.*8110 S. E. Sunset Lane  
Portland, Oregon 97206

May 6, 1972

Log of City of Bend well

**RECEIVED**  
MAY 22 1972  
STATE ENGINEER  
SALEM, OREGON

Fill	0 - 4
sand, gravel, and boulders	44 - 9
tan ash	9 - 14
sand, gravel and clay	14 - 23
sand, ash and gravel	23 - 44
black basalt	44 - 119
red and black basalt	119 - 203
red basalt, streaks of clay	203 - 224
light brown basalt	224 - 225
medium hard black basalt	225 - 271
hard black basalt	271 - 292
medium hard red and black basalt	292 - 322
dark grey basalt	322 - 341
red and black fractured basalt	341 - 382
black basalt and brown clay	382 - 385
red, black and yellow rock	385 - 397
black basalt	397 - 403
black, brown and red basalt; clay seams	403 - 432
black, brown and red basalt, tan clay	432 - 438
porous black basalt	438 - 443
black basalt	443 - 454
brown clay with broken basalt	454 - 487
yellow clay and black basalt	487 - 495
tan clay and brown and black basalt	495 - 498
black and brown basalt with brown clay	498 - 539
black basalt	539 - 566
slightly porous black basalt	566 - 595
medium hard black basalt	595 - 602
slightly porous black basalt	602 - 626
medium hard black basalt	626 - 670
porous black basalt	670 - 700
porous red and black basalt	700 - 721
hard black basalt	721 - 724
slightly porous black basalt	724 - 741
brown, red, tan and black basalt	741 - 744
brown and black basalt	744 - 777
soft porous brown basalt	777 - 783
brown and black basalt	783 - 792
porous black basalt	792 - 838
black basalt	838 - 889
black basalt with brown clay	889 - 900

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## R. J. Strasser Drilling Co.

8110 S. E. Sunset Lane  
Portland, Oregon 97206  
April 29, 1972

**RECEIVED**  
MAY 22 1972  
STATE ENGINEER  
SALEM OREGON

Mr. William Mc Call, Geologist  
Oregon State Engineer Office  
Salem, Oregon 97310

*OK  
Brd*

Dear Mr. Mc Call:

Pursuant to our telephone conversation of April 14, 1972, we are writing you this letter to record the sealing program you have accepted and we have performed on the municipal well we have recently completed for the City of Bend, Oregon. We shall submit a regular state well report, however there is no space adequate in the regular form to record this sealing procedure.

1. The 16" permanent casing is sealed in the 20" diameter hole at 637 feet with 25 bags of cement.
2. Above the seal at the bottom of the 16" pipe we backfilled the annulus between the twenty inch hole and the sixteen inch pipe with rock cuttings from the well and crushed rock to a depth of 262 feet from the land surface. There we pumped in another 25 bags of cement grout.
3. The 235 feet of 20" O.D. pipe that was used in drilling the well was removed from the well and the annulus between the open 24" hole and the 16" pipe was backfilled with rock cuttings and crushed rock to a depth of 112 feet from the surface at which depth we pumped in another 25 bags of cement grout.
4. The 24" O.D. pipe was left in the well. The hole was backfilled with rock cuttings and crushed rock to 50', a depth five feet deeper than the bottom of the 24" pipe. From this depth we back-filled the well to the surface with 8 cu. yd. of 3½ sack/yard concrete, filling the annulus between the 24" and 16" casing and the voids outside the 24" pipe.

It is our feeling that this well is more than adequately sealed

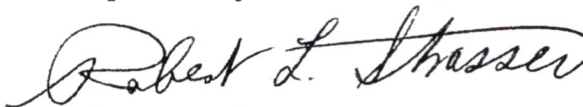
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SEP 30 2024

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and are confident it should meet the sealing requirements of any of the numerous governmental agencies who have so recently become involved in ground water protection.

Respectfully submitted,



Robert L. Strasser, partner  
R. J. STRASSER DRILLING CO.



Received

SEP 30 2024

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NOTICE TO WATER WELL CONTRACTOR  
The original and first copy of this report  
are to be filed with the

WATER RESOURCES DEPARTMENT,  
SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

**WATER WELL REPORT**

STATE OF OREGON

(Please type or print)

(Do not write above this line)

**RECEIVED**

APR 2 1978

State Well No.

185/12W-5bc

State Permit No.

WATER RESOURCES DEPT.  
SALEM, OREGON

DESC  
5578

**(1) OWNER:**

Name CITY OF BEND  
Address P.O. Box 431  
BEND, OR. 97701

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon

If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary  Driven   
Cable  Jetted   
Dug  Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

**CASING INSTALLED:**

Threaded  Welded   
1" Diam. from 0 ft. to 46 ft. Gage 1312  
1.8" Diam. from 0 ft. to 234 ft. Gage 1375  
14" Diam. from 0 ft. to 706 ft. Gage 1375

**PERFORATIONS:**

Perforated?  Yes  No.

Type of perforator used

Size of perforations in. by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

**(7) SCREENS:**

Well screen installed?  Yes  No

Manufacturer's Name  
Type Model No.  
Diam. Slot size Set from ft. to ft.  
Diam. Slot size Set from ft. to ft.

**(8) WELL TESTS:**

Drawdown is amount water level is lowered below static level

Was a pump test made?  Yes  No If yes, by whom? OWNER  
Yield: 2000 gal./min. with 185 ft. drawdown after 17 hrs.  
Ballor test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water 58 Depth artesian flow encountered ft.

**(9) CONSTRUCTION:**

Well seal—Material used PORTLAND CEMENT TYPE 1 1/2  
Well sealed from land surface to 706 ft.  
Diameter of well bore to bottom of seal 17 1/4 in.  
Diameter of well bore below seal in.  
Number of sacks of cement used in well seal 413 sacks  
How was cement grout placed? GRAVITY FLOW WHILE VIBRATING CASING TO PREVENT BRIDGING.

Was a drive shoe used?  Yes  No Plugs Size: location ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? depth of strata  
Method of sealing strata off  
Was well gravel packed?  Yes  No Size of gravel:  
Gravel placed from ft. to ft.

**(10) LOCATION OF WELL:**

County DESCANTES Driller's well number  
SW 1/4 NW 1/4 Section 5 T. 18S R. 12E W.M.  
Bearing and distance from section or subdivision corner 300 Ft. WEST OF EXISTING BEND CITY WELL #1

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found ft.  
Static level 242 ft. below land surface. Date 3-21-78  
Artesian pressure lbs. per square inch. Date

**(12) WELL LOG:**

Diameter of well below casing 10"

Depth drilled 5 ft. Depth of completed well 800 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
<b>FILL MATERIALS</b>	+5	-5	
BLUES, GRAVEL + SAND B&K	5	27	
" " " " TAN	27	43	
BASALT, B&K, BRKN MED SOFT	43	70	
" BRKN BLK	70	101	
" GRAY MED HD	101	106	
" RED B&K BRKN (CINDERS)	106	175	
" " BRN " "	175	199	
" GRAVEL CEMENTED, CONCL	199	224	
GRAVEL B&K BASALT	224	232	
BASALT, B&K MED TO HD	232	285	
" " HD.	285	326	
" " VESICULAR (FROTHY)	326	337	
" " FRACTURED HD.	337	342	
" " " MED HD.	342	367	
" " " HD.	367	387	
" " " MED HD.	387	445	
GRAVEL BASALTIC SOME REDDISH BRN, TAN CLAY SEAMS	445	462	

Work started 10-10 19 77 Completed 1-23 19 78

Date well drilling machine moved off of well 1-23 19 78

**Drilling Machine Operator's Certification:**

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] William D. Williams Date 3-31, 19 78  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 864

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name William D. Williams (Type or print)  
(Person, firm or corporation)

Address 3790 N.W. OAK LN REDMOND OR 97726

[Signed] William D. Williams  
(Water Well Contractor)

Contractor's License No. 6605 Date 3-31, 19 78

(USE ADDITIONAL SHEETS IF NECESSARY)

SP\*45656-119

Received  
SEP 30 2024

NOTICE TO WATER WELL CONTRACTOR  
The original and first copy of this report  
are to be filed with the

WATER RESOURCES DEPARTMENT,  
SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

AGE # 2 RECEIVED  
WATER WELL REPORT

STATE OF OREGON  
(Please type or print)

APR 2 1978

State Well No. \_\_\_\_\_

(Do not write above this line)

SALEM, OREGON

State Permit No. \_\_\_\_\_

**(1) OWNER:**

Name CITY OF BEND  
Address P.O. BOX 431  
BEND, OR 97701

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon

If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary  Driven   
Cable  Jetted   
Dug  Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

**CASING INSTALLED:**

Threaded  Welded   
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

**PERFORATIONS:**

Perforated?  Yes  No.

Type of perforator used \_\_\_\_\_

Size of perforations	in. by	in.
_____ perforations from _____	_____	_____ ft. to _____ ft.
_____ perforations from _____	_____	_____ ft. to _____ ft.
_____ perforations from _____	_____	_____ ft. to _____ ft.

**(7) SCREENS:**

Well screen installed?  Yes  No

Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) WELL TESTS:**

Drawdown is amount water level is lowered below static level

Was a pump test made?  Yes  No If yes, by whom? \_\_\_\_\_

Yield:	gal./min. with	ft. drawdown after	hrs.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered \_\_\_\_\_ ft.

**(9) CONSTRUCTION:**

Well seal—Material used \_\_\_\_\_  
Well sealed from land surface to \_\_\_\_\_ ft.  
Diameter of well bore to bottom of seal \_\_\_\_\_ in.  
Diameter of well bore below seal \_\_\_\_\_  
Number of sacks of cement used in well seal \_\_\_\_\_ sacks  
How was cement grout placed? \_\_\_\_\_

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Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(10) LOCATION OF WELL:**

County \_\_\_\_\_ Driller's well number \_\_\_\_\_  
\_\_\_\_\_ 1/4 Section T. R. W.M.  
Bearing and distance from section or subdivision corner \_\_\_\_\_

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found \_\_\_\_\_ ft.  
Static level \_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

**(12) WELL LOG:**

Diameter of well below casing \_\_\_\_\_

Depth drilled \_\_\_\_\_ ft. Depth of completed well \_\_\_\_\_ ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
BASALT, BLK, BRN, SOME VESICULAR	45	SCORIACEOUS	
ZONES W/RED-BRN COLOR	462	687	
BASALT, BLK, VESICULAR + SCORIACEOUS			
CASING W/B	687	706	485
CASING SET + ALL STARTAS ABOVE			
706 GEOTEK + SEALED OFF.			
BASALT, BLK HD.	707	722	
" " SOFT.	722	723	
" " HD.	723	727	
" " SOFT.	727	728	
" GRAY, BRN, RED-BRN VESICULAR TO SCORIACEOUS W/B.	728	765	
BASALT, HD, BLK	765	771	
" DK GRAY, BLK, VESICULAR TO SCORIACEOUS W/B.	771	791	242
BASALT, GRAY + BLK PORPHYRITIC	791	793	
" " " " SOFT	793	796	
" " " " HD.	796	799	
" " " " SOFT	799	800	

Work started 19 \_\_\_\_\_ Completed 19 \_\_\_\_\_

Date well drilling machine moved off of well 19 \_\_\_\_\_

**Drilling Machine Operator's Certification:**

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] \_\_\_\_\_ Date \_\_\_\_\_, 19\_\_\_\_\_  
(Drilling Machine Operator)

Drilling Machine Operator's License No. \_\_\_\_\_

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name \_\_\_\_\_  
(Person, firm or corporation) (Type or print)

Address \_\_\_\_\_

[Signed] \_\_\_\_\_  
(Water Well Contractor)

Contractor's License No. \_\_\_\_\_ Date \_\_\_\_\_, 19\_\_\_\_\_  
\_\_\_\_\_

Bill.

The reason this log is so late being filed is because I was waiting for Fred Roberts to correlate the E log to the physical log & I just received the results.

Sincerely  
W.D. Williams

Received

SEP 30 2024

OWRD



OFFICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

DESC 5/21/73 26/13

RECEIVED

WATER WELL REPORT

STATE OF OREGON JUL 18 1973

WATER RESOURCES DEPT. SALEM, OREGON

State Well No.

19S/12E-16bc

State Permit No.

NOB 8611336

(1) OWNER:

Name J.L. Ward Construction Co. Address 61045 Brosterhaus Rd. Bend 97702

(2) TYPE OF WORK (check):

New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ] If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [ ] Driven [ ] Cable [X] Jetted [ ] Dug [ ] Bored [ ]

(4) PROPOSED USE (check):

Domestic [X] Industrial [ ] Municipal [ ] Irrigation [X] Test Well [ ] Other [ ]

CASING INSTALLED:

12" Diam. from +2 ft. to -410 ft. Gage 250. Threaded [ ] Welded [X]

PERFORATIONS:

Type of perforator used Torch Perforated? [X] Yes [ ] No. Size of perforations 1/4 in. by 6 in. 500 perforations from 330 ft. to 410 ft.

(7) SCREENS:

Well screen installed? [ ] Yes [X] No Manufacturer's Name Type Model No. Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level. Was a pump test made? [X] Yes [ ] No. If yes, by whom? Ward. 1500 gal./min. with ft. drawdown after hrs. See Attached Letter. Baller test g.p.m. Artesian flow None g.p.m. Temperature of water 52 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Portland Cement Grout Well sealed from land surface to 50 ft. Diameter of well bore to bottom of seal 18 in. Diameter of well bore below seal 16-18 in. Number of sacks of cement used in well seal sacks Number of sacks of bentonite used in well seal None sacks Brand name of bentonite NA Number of pounds of bentonite per 100 gallons of water lbs./100 gals. Was a drive shoe used? [ ] Yes [X] No Plugs Size: location ft. Did any strata contain unusable water? [ ] Yes [ ] No Type of water? depth of strata Method of sealing strata off Was well gravel packed? [X] Yes [ ] No Size of gravel: 1/4-1/2 Gravel placed from 50 ft. to 410 ft.

(10) LOCATION OF WELL:

County Deschutes Driller's well number SW 1/4 NW 1/4 Section 16 T. 18S R. 12E W.M. Bearing and distance from section or subdivision corner 2,000' South of NW Corner of Sec. 16

(11) WATER LEVEL: Completed well.

Depth at which water was first found 335 ft. Static level 335 ft. below land surface. Date Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 16" Depth drilled 417 ft. Depth of completed well 410 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

Table with columns: MATERIAL, From, To, SWL. Rows include Sandy Soil, Gray Lave, Lava Chunks, Red Cinders, Conglomerate tan, Gray Pumice, Black Lava, Lava Chunks, Red Cinders, Black Cinders, Lava Black, Conglomerate, Lava Gray, Red Cinders, Lava Chunks, Gray Basalt, Gray Lava.

(Continued Below)

Work started 4/18 1974 Completed 6/26 19 74

Date well drilling machine moved off of well 6/28 19 74

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date 19

Drilling Machine Operator's License No.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Jan L. Ward (Person, firm or corporation) (Type or print)

Address 61045 Brosterhaus Road, Bend, Oregon

[Signed] (Water Well Contractor)

Contractor's License No. Date

(USE ADDITIONAL SHEETS IF NECESSARY)

SEP 30 2024

SP\*45656-119

OWRD

The original and last copy of this report are to be filed with the

WATER WDESC 5613

STATE OF

(Please type)

(Do not write ab

ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

OWNER:

Name J.L. Ward Construction Co. Address 61045 Brosterhaus Rd.

(2) TYPE OF WORK (check):

New Well [ ] Deepening [ ] Reconditioning [ ] Abandon [ ]

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [ ] Driven [ ] Cable [ ] Jetted [ ] Dug [ ] Bored [ ]

(4) PROPOSED USE (check):

Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:

Threaded [ ] Welded [x]

18" Diam. from +2 ft to -410 ft. Gage 250

(6) PERFORATIONS:

Perforated? [x] Yes [ ] No.

Type of perforator used Torch

Size of perforations 1/4 in. by 6 in. 500 perforations from 330 ft. to 410 ft.

(7) SCREENS:

Well screen installed? [ ] Yes [x] No

Manufacturer's Name Model No. Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? [x] Yes [ ] No If yes, by whom? Ward Yield: gal./min. with ft. drawdown after hrs. See Attached Letter

(9) CONSTRUCTION:

Well seal—Material used Portland Cement Grout Well sealed from land surface to 50 ft. Diameter of well bore to bottom of seal 18 in. Diameter of well bore below seal 16-18 in.

Received SEP 30 2024 OWRD

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

Table with columns: MATERIAL, From, To, SWL. Rows include Red Cinders, Cemented Gravel, Gray Lava, Red Cinders.

RECEIVED

DEC 14 2000

WATER RESOURCES DEPT SALEM, OREGON

Work started 4/18 1974 Completed 6/25 1974 Date well drilling machine moved off of well 6/25 1974

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date, 19

Drilling Machine Operator's License No.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Jan L. Ward (Person, firm or corporation) (Type or print)

Address 61045 Brosterhaus Road, Bend, Oregon

[Signed] (Water Well Contractor)

Contractor's License No. Date, 19



RECEIVED  
JUL 17 1978  
WATER RESOURCES DEPT.  
SALEM, OREGON

Received  
SEP 30 2024  
OWRD

July 13, 1978

Water Resources Department of  
Oregon State  
555 13th N.E.  
Salem, Oregon 97310

Gentlemen:

Enclosed please find a completed well log for a well that was drilled in May and June of 1974.

The drilling was done with tools and machines belonging to Ward Construction Company and operated by Lawrence Kowaleski of Madras, Oregon .

The drilling was completed in late June 1974; the casing was installed and the seal was installed and the well completed on September 24, 1974.

An 8" Lineshaft Turbine Pump was installed in the summer of 1977 and the well as tested for a period of 30 days at a flow of 1500 Gallons Per Minute. There was no apparent draw down in the two adjacent wells before, during or after the test period.

The tardiness of this well log was due to my misunderstanding of who was to make the filing.

If there is any additional information required, please advise.

Ward Construction Company

Jan L. Ward  
President

JW/mc

Enclosures

*has to be 8611336*

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

DESC 5585 WATER WELL REPORT RECEIVED  
 STATE OF OREGON (Please type or print)  
 DEC 19 1977

STATE ENGINEER, SALEM, OREGON  
 within 30 days from the date of well completion.

Do not write above this line)

STATE OF OREGON

RECEIVED

NOV 29 1977

Well No. 188/12E-76b

State Permit No.

Received

WATER RESOURCES DEPT.

(1) OWNER: WATER RESOURCES DEPT. SALEM, OREGON  
 Name M. R. S. Inc  
 Address Red Oaks Square--Bend, Oreg. 97701

(10) LOCATION OF WELL: SALEM, OREGON  
 County Deschutes Driller's well number  
 NW 1/4 NW 1/4 Section 7 T. 18 R. 16 W.M.  
 Bearing and distance from section or subdivision corner

(2) TYPE OF WORK (check):  
 New Well  Deepening  Reconditioning  Abandon   
 If abandonment, describe material and procedure in Item 12.

(11) WATER LEVEL: Completed well.  
 Depth at which water was first found \_\_\_\_\_ ft.  
 Static level 277 ft. below land surface. Date 11-26-77  
 Artesian pressure \_\_\_\_\_ lbs. per square inch. Date

(3) TYPE OF WELL: (4) PROPOSED USE (check):  
 Rotary  Driven  Domestic  Industrial  Municipal   
 Cable  Jetted  Irrigation  Test Well  Other   
 Dug  Bored

CASING INSTALLED: Threaded  Welded   
 6" Diam. from 0 ft. to 81 ft. Gage .250  
 " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
 " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

(12) WELL LOG: Diameter of well below casing 6  
 Depth drilled 331 ft. Depth of completed well 310 ft.  
 Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

PERFORATIONS: Perforated?  Yes  No.  
 Type of perforator used  
 Size of perforations in. by in.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

MATERIAL	From	To	SWL
Sand & Pumice	0	2	
Clay & Sediments-brown	2	7	
Black lava	7	10	
Pumice-brown	10	27	
White Pumice	27	48	
Black clay & sediments	48	105	
Sediments	105	156	
Cinders-red	156	176	
Brown lava	176	186	
Grey lava-frac.	186	209	
Sediments	209	221	
Lava-brown	221	231	
Clay & sediments	231	249	
Sediments-cinders	249	268	
Grey lava-dense	268	306	
Sediments & water	306	331	277

(7) SCREENS: Well screen installed?  Yes  No  
 Manufacturer's Name \_\_\_\_\_  
 Type \_\_\_\_\_ Model No. \_\_\_\_\_  
 Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Work started Nov 16 1977 Completed Nov 26 1977  
 Date well drilling machine moved off of well Nov. 26 1977

(8) WELL TESTS: Drawdown is amount water level is lowered below static level  
 Was a pump test made?  Yes  No If yes, by whom?  
 " " " " " " " "  
 " " " " " " " "  
**AIR TEST**  
 Bellier test 30 gal./min. with 15 ft. drawdown after 1 hrs.  
 Artesian flow \_\_\_\_\_ g.p.m.  
 perature of water 51 Depth artesian flow encountered \_\_\_\_\_ ft.

Drilling Machine Operator's Certification:  
 This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.  
 [Signed] \_\_\_\_\_ Date 11-27, 1977.  
 (Drilling Machine Operator)  
 Drilling Machine Operator's License No. 130

(9) CONSTRUCTION:  
 Well seal—Material used Bentonite SLURRY & Sand  
 Well sealed from land surface to 80 ft. ft.  
 Diameter of well bore to bottom of seal 10 in.  
 Diameter of well bore below seal 6 in.  
 Number of sacks of cement used in well seal \_\_\_\_\_ sacks  
 Number of sacks of bentonite used in well seal 3 sacks  
 Brand name of bentonite Volclay  
 Number of pounds of bentonite per 100 gallons of water One Hundred (100) lbs./100 gals.  
 Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
 Did any strata contain unusable water?  Yes  No  
 Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
 Method of sealing strata off \_\_\_\_\_  
 Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Water Well Contractor's Certification:  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
 Name Reed's Well Drilling (Person, firm or corporation) (Type or print)  
 Address 20219 Meadow Lane-Bend, Oregon 97701  
 [Signed] \_\_\_\_\_ (Water Well Contractor)  
 Contractor's License No. 443 Date Nov. 27- , 1977



NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the

STATE ENGINEER, SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

**WATER WELL REPORT**

STATE OF OREGON

(Please type or print)

(Do not write above this line)

APP 17 1978

State Well No. 185/12E-766

State Permit No.

DESC 5586

WATER RESOURCES DEPT.

**(1) OWNER:**

Name M. R. S. CO.  
Address RED OAK SQUARE - BEND, OR 97701

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary  Driven   
Cable  Jetted   
Dug  Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

**CASING INSTALLED:**

Threaded  Welded   
" Diam. from 4 ft. to 5.8 ft. Gage 260  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

**PERFORATIONS:**

Perforated?  Yes  No.

Type of perforator used \_\_\_\_\_

Size of perforations in. by in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(7) SCREENS:**

Well screen installed?  Yes  No

Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
Type \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) WELL TESTS:**

Drawdown is amount water level is lowered below static level

Was a pump test made?  Yes  No If yes, by whom?  
Yield: 1087 gal./min. with 13 ft. drawdown after 3 hrs.  
" " " "  
" " " "  
Bailer test gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian flow g.p.m. \_\_\_\_\_  
perature of water 51 Depth artesian flow encountered \_\_\_\_\_ ft.

**(9) CONSTRUCTION:**

Well seal—Material used CEMENT GROUT  
Well sealed from land surface to 5.8 ft.  
Diameter of well bore to bottom of seal 10 in.  
Diameter of well bore below seal 11 in.  
Number of sacks of cement used in well seal 11 sacks  
Number of sacks of bentonite used in well seal \_\_\_\_\_ sacks  
Brand name of bentonite \_\_\_\_\_  
Number of pounds of bentonite per 100 gallons of water \_\_\_\_\_ lbs./100 gals.  
Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(10) LOCATION OF WELL:**

County DESCHUTES Driller's well number \_\_\_\_\_  
N.W. 1/4 S.W. 1/4 Section 7 T. 18 R. 12-E W.M. \_\_\_\_\_  
Bearing and distance from section or subdivision corner \_\_\_\_\_

**(11) WATER LEVEL: Completed well**

Depth at which water was first found 306 ft.  
Static level 254 ft. below land surface. Date 3-4-78  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

**(12) WELL LOG:**

Diameter of well below casing 10"  
Depth drilled 311 ft. Depth of completed well 311 ft.  
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
REAMED 6" WELL TO 58 FT.			
15" INSTALLED 60' OF 10" CASING			
SEALED SAME WITH 7 SACK MIX			
SEMENT GROUT 1 1/2 YARDS			
REAMED FROM 58' TO 311' WITH			
TENING REAMER - COMPLETE			
DEPTH 311' - WELL TEST			
PUMPED 3 HRS AT 1087 GAL.			
PER MIN.			

Received

SEP 30 2024

OWRD

Work started 12-21 1977 Completed 3-25 1978  
Date well drilling machine moved off of well 3-27 1978

**Drilling Machine Operator's Certification:**

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] William Down Date 3-27 1978  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 400

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name DAKER DRILLING CO.  
(Person, firm or corporation) (Type or print)

Address 20379 ILLAHEE DR. BEND

[Signed] William Down  
(Water Well Contractor)

Contractor's License No. 634 Date 3-27 1978

# A & H Pump Service

710 "F" AVENUE  
TERREBONNE, OREGON 97760

JACK ABBAS  
548-5753

ROLLIN HEATER  
548-4622

Received  
SEP 30 2024  
OWRD

Owner's Name: <u>MRS COMPANY</u>	Date: <u>2-28-78</u> J.O. _____
Well Location: <u>% GORDAN RANDALL</u>	WELL TEST DATA SHEET
<u>Bend</u>	Test by: <u>JACK</u> Sheet of _____

Orifice Dia. 6" Inches

Depth of Water Measured by:

Flow Tube (I.D.) 8" Inches

1. Air Line, Length in Feet: \_\_\_\_\_

Test Pump Suction Set at 245 Feet

2. Electronic Probe \_\_\_\_\_

Well Driller Bill Dover

3. Other Method, (Describe): \_\_\_\_\_

Static Water Level: 256 Feet

Time	To Water		Head	Flow	Engine	Remarks	
	Hr	Min					Depth ft
11:00		260'				STARTED pumping	
11:40		262'	19"	690		ONE Engine clearing well	
11:50		262'	19"	690			
12:10		267'	48"	1067		BOTH ENGINES STARTED	
12:25		267'	48"	1067		cleared up about 5 min	
12:35		267'	48"	1067			
		Stopped pumping					
3:05		267'	49"	1078		STARTED pumping Again	
3:30		267'	49"	1078		cleared up 5 minutes	
4:05		267'	49"	1078			
4:30		267'	49"	1078			
4:35		STARTED Surging well Surged The well Three					
		Times WATER cleared IN About 1 minute					STATIC
		WATER Level WAS BACK UP TO 256 <sup>FT</sup>					1 minute
		AFTER STOPPING pump each time.					
5:00		267'	49"	1078		STOPPED pumping	
TOTAL pumping Time 3 hrs 20 min							

35 min  
 79.12  
 Pumping  
 Per hour  
 7  
 170 TONS AT 500 G.P.M.  
 2 hours 30 min