



State of Oregon  
 Water Resources Department  
 725 Summer Street-NE, Suite A  
 Salem, Oregon 97301-1266  
 (503) 986-0900

# Application for Permit Amendment

## Part 1 of 5 – Minimum Requirements Checklist

**This permit amendment 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 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.
- Part 4 – Completed Applicant Information and Signature.
- Part 5 – Information about Permits to be Amended: **Number of permits to be amended: 1 List them here: G-17042 (Attachment A)**  
Please include a separate Part 5 for each permit. (See instructions on page 6)
- Completed Permit Amendment Application Map (Does not have to be prepared by a Certified Water Right Examiner). (**Attachment B**)
- N/A Request for Assignment Form and statutory fee. The request for assignment form has to be completed if the applicant is **not** the permit holder of record and needs to be assigned to the permit; **or** the landowner of the proposed place of use is **not** the permit holder of record and needs to be assigned to the permit (the Request for Assignment Form is available online at <http://www.oregon.gov/owrd/pubs/docs/forms>). Assignment is not needed if the applicant is the permit holder of record. (**N/A – Applicant is the permit holder of G-17042**)
- N/A Affidavit(s) of Consent are required from all permit holder(s) of record if the permit is not assigned to the applicant **or** other permit holders of record that are not listed as applicants.
- N/A Land Use Information Form with approval and signature (or signed land use form receipt stub). Land use form is not required if any of the following apply: (**Attachment C**)
  - Water is to be diverted, conveyed, and/or used only on federal lands.
  - 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.
  - The proposed changes are all located on the property reviewed in Land Use form enclosed in Water Right Application Folder # \_\_\_\_\_.
- N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation. (**Proposed POA to be constructed**)

(For Staff Use Only)

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

___ Application fee not enclosed/insufficient	___ Map not included or incomplete
___ Land Use Form not enclosed or incomplete	___ Assignment Form and fee not enclosed/insufficient
___ Additional signature(s) required	Part ___ is incomplete

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

Staff: \_\_\_\_\_ 503-986-0 \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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## Part 2 of 5 – Permit Amendment Map Checklist

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

**Please be sure that the map you submit includes all the items listed below and meets the requirements of OAR 690-380-3100, however, the map does not have to be prepared by a Certified Water Right Examiner. Check all boxes that apply.**

- N/A If more than three permits are involved, separate maps for each permit.
- 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 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 use permit, 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 permit is being changed, a separate hachuring is needed for the portion of the permit left unchanged.
- N/A If you are proposing a change in place of use, show the proposed place of use with hachuring that includes separate hachuring for each permit, 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 use 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°).

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Part 3 of 5 – Fee Worksheet

FEE WORKSHEET for PERMIT AMENDMENT. Table with 4 columns: Line number, Description, Line number, Amount. Rows include Base Fee, Types of change proposed, Number of permits included, Well proposal, Place of use change, and Subtotal/Permit Amendment Fee.

\*Example for Line 5a calculation to transfer 45.0 acres of Primary Permit S-12345 (total 1.25 cfs for 100 acres) and 45.0 acres of Supplemental Permit S-87654 (1/80 cfs per acre) on the same land:

- 1. For irrigation calculate cfs for each permit involved as follows:
a. Divide total authorized cfs by total acres in the permit (for S-12345, 1.25 cfs ÷ 100 ac); then multiply by the number of acres to be changed to get the application cfs (x 45 ac = 0.56 cfs).
b. If the water right permit does not list total cfs, but identifies the allowable use as 1/40 or 1/80 of a cfs per acre; multiply number of acres proposed for change by either 0.025 (1/40) or 0.0125 (1/80). (For S-87654, 45.0 ac x 0.0125 cfs/ac = 0.56 cfs)
2. Add cfs for the portions of permits on all the land included in the application; however do not count cfs for supplemental permits on acreage for which you have already calculated the cfs fee for the primary permit on the same land.

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## Part 4 of 5 – Applicant Information and Signature

### Applicant Information

APPLICANT/BUSINESS NAME <b>City of Redmond</b>		PHONE NO. <b>541-504-2001</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>411 SW 9<sup>th</sup> St</b>		FAX NO.	
CITY <b>Redmond</b>	STATE <b>OR</b>	ZIP <b>97756</b>	E-MAIL <b>Bill.Duerden@ci.redmond.or.us</b>
<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.</b>			

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

AGENT/BUSINESS NAME <b>GSI Water Solutions, Attn: Adam Sussman</b>		PHONE NO. <b>541-257-9001</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>1600 SW Western Blvd, Suite 240</b>		FAX NO.	
CITY <b>Corvallis</b>	STATE <b>OR</b>	ZIP <b>97333</b>	E-MAIL <b>asussman@gsiws.com</b>
<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.</b>			

Explain in your own words what you propose to accomplish with this permit amendment; and why:  
**The Applicant is proposing to change the location of three points of appropriation.**

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

Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)

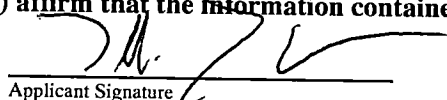
Is the applicant the permit holder of record?  Yes  No

If NO, include either:

- A completed assignment form (with required statutory assignment fee), assigning all or a portion of the permit to the applicant(s), **OR**
- An affidavit of consent from the permit holder(s) of record that gives permission for the applicant to amend the permit.

I understand that prior to Department approval of the permit amendment, 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 permit 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 Redmond Spokesman.

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

  
 Applicant Signature

**Bill Duerden: Public Works Director**  
 Print Name (and Title if applicable)

1/23/2019  
 Date

\_\_\_\_\_  
 Applicant Signature

\_\_\_\_\_  
 Print Name (and Title if applicable)

\_\_\_\_\_  
 Date

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**Check one of the following:**

- The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.
- The permit holder(s) of record will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to the permit holder(s) of record.

**Check the appropriate box, if applicable:**

- Check here if any of the permits proposed for amendment are or will be located within or served by an irrigation or other water district.

IRRIGATION DISTRICT NAME <b>Central Oregon Irrigation District</b>	ADDRESS <b>1055 SW Lake Ct</b>	
CITY <b>Redmond</b>	STATE <b>OR</b>	ZIP <b>97756</b>

- Check here if water for any of the permits 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 local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME <b>City of Redmond</b>	ADDRESS <b>411 SW 9<sup>th</sup> St</b>	
CITY <b>Redmond</b>	STATE <b>OR</b>	ZIP <b>97756</b>

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

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## Part 5 of 5 – Water Use Permit Information

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

### PERMIT # G-17042

**Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)**  
(Note: If the POD/POA name is not specified in the permit, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized by the permit 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)
Well #6	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 55853	15	S	13	E	21	NW	SE		2,035 feet North and 1,662 feet West from SE corner of Section 21, T 15 S, R 13 E, W.M.
Well #6	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 55853	15	S	13	E	21	NW	SE	400	North 35° 38' 4" West: 2,443.94 feet from the SE corner of Section 21, T 15 S, R 13 E, W.M.
Well #7	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	DESC 57788	15	S	13	E	15	NW	NW		158 feet South and 2,826 feet East from NW corner of Section 15, T 15 S, R 13 E, W.M.
Well #7	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	DESC 57788	15	S	13	E	10	SW	SE	1100	1,210 feet North and 1,640 feet West from the SE corner of Section 10, T 15 S, R 13 E, W.M.
Well #8	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	N/A	15	S	13	E	20	NE	NE	100	190 feet South and 127 feet West from NE corner of Section 20, T 15 S, R 13 E, W.M.
Well #8	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	15	S	13	E	19	SE	SW	102	513 feet North and 2,807 feet West from the SE corner of Section 19, T 15 S, R 13 E, W.M.
Well #9	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	N/A	15	S	13	E	16	SW	NW	109	1,457 feet South and 580 feet East from the NW corner of Section 16, T 15 S, R 13 E, W.M.
Well #10	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	N/A	15	S	13	E	9	SE	NW	506	1,332 feet South and 2020 feet East from the NW corner of Section 9, T 15 S, R 13 E, W.M.
Well #11	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	N/A	15	S	13	E	9	NE	SW	103	2,530 feet North and 2,160 feet East of SW corner of Section 9, T 15 S, R 13 E, W.M.

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

- |   |  |
|---|--|
| <input type="checkbox"/> Place of Use (POU)                   | <input checked="" type="checkbox"/> Point of Appropriation/Well (POA)  |
| <input type="checkbox"/> Point of Diversion (POD)             | <input type="checkbox"/> Additional Point of Appropriation (APOA)      |
| <input type="checkbox"/> Additional Point of Diversion (APOD) | <input type="checkbox"/> Surface water POD to Ground Water POA (SW/GW) |

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**Will all of the proposed changes affect the entire water use permit?**

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

**For a change in place of use:**

**Does the permit holder of record own or control the land TO which the place of use is being moved?**

Yes  No (N/A – Change in POA only)

If NO, the landowner of the land TO which the place of use is being moved must be assigned to the permit as a permit holder of record by submitting a completed Request for Assignment form and the required statutory fee for an assignment.

**Is the proposed place of use contiguous to the authorized place of use?  Yes  No (N/A – Change in POA only)**

The permitted place of use can be moved only to lands that are contiguous to the authorized place of use unless the change to non-contiguous lands is in furtherance of mitigation or conservation efforts undertaken for the purposes of benefiting a species listed as sensitive, threatened, or endangered under ORS 496.171 to 496.192 or the federal Endangered Species Act of 1973 (16 U.S.C. 1531 to 1544), as determined by the listing agency. Contiguous land being either adjacent land or land separated from the land to which a permit is authorized by roads, utility corridors, irrigation ditches or publicly owned rights of way.

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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 Use Permit # G--17042**

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 (if applicable)	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 (if applicable)	POD(s) or POA(s) to be used (from Table 1)	Priority Date				
<b>EXAMPLE</b>																								
2	S	9	E	15	NE	NW	100		15.0	POD #1 POD #2		POU/POD	2	S	9	E	15	NW	NW	100	1	10.0	POD #5	
"	"	"	"	"	"	"	"	"	EXAMPLE	"		"	2	S	9	E	15	SW	NW	200		5.0	POD #6	
												POD	Municipal Service Boundary of the City of Redmond										Well 6 Well 7 Well 8 Well 9 Well 10 Well 11	1/13/1999
TOTAL ACRES											TOTAL ACRES													

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

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

If YES, list the other certificate, permit, or ground water registration numbers: N/A – The authorized use is municipal use, so water rights are not 'layered.'



If the permit(s) are for irrigation or supplemental irrigation use, other water rights existing on the same land for irrigation that are subject to transfer must either change concurrently or be cancelled. Any change to a water right certificate or ground water registration must be filed separately in a water right transfer application or ground water registration modification application, respectively.

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

See attached well logs for wells 6 and 7 (Attachment D). Anticipated construction of Well 8 is shown in Table 3. The proposed construction is based on Wells 6 and 7 adjusted for the elevation of the well.

- Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map. (Tip: You may search for well logs on the Department's web page at: [http://apps2.wrd.state.or.us/apps/gw/well\\_log/Default.aspx](http://apps2.wrd.state.or.us/apps/gw/well_log/Default.aspx))

**AND/OR**

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

**Table 3. Construction of Point(s) of Appropriation**

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

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well, OWRD Well ID Tag No. L-_____	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well - specific rate (cfs or gpm). If less than full rate of water right
Well 8	No		880 ft	16 in.	+2 – 525 875 - 880	0 – 300 ft	525 – 875 (assemblage)	325 ft	Basalt and Sandstone	

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**Attachment A**  
**Permit G-17042**

Application for Amendment of Permit G-17042 – City of Redmond

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STATE OF OREGON

COUNTY OF DESCHUTES

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

CITY OF REDMOND  
PO BOX 726  
REDMOND, OR 97756

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-14908

SOURCE OF WATER: SIX WELLS IN THE DESCHUTES RIVER BASIN

PURPOSE OR USE: MUNICIPAL USE

MAXIMUM RATE/VOLUME: 25.0 CUBIC FEET PER SECOND, LIMITED TO A MAXIMUM ANNUAL VOLUME OF 3492.0 ACRE FEET

PERIOD OF USE: YEAR ROUND

DATE OF PRIORITY: JANUARY 13, 1999

WELL LOCATIONS:

WELL #6: NWSE, SECTION 21, T15S, R13E, W.M.; 2035 FEET NORTH & 1662 FEET WEST FROM SE CORNER, SECTION 21

WELL #7: NWNW, SECTION 15, T15S, R13E, W.M.; 158 FEET SOUTH & 2826 FEET EAST FROM NW CORNER, SECTION 15

WELL #8: NENE, SECTION 20, T15S, R13E, W.M.; 190 FEET SOUTH & 127 FEET WEST FROM NE CORNER, SECTION 20

WELL #9: SWNW, SECTION 16, T15S, R13E, W.M.; 1457 FEET SOUTH & 580 FEET EAST FROM NW CORNER, SECTION 16

WELL #10: SENW, SECTION 9, T15S, R13E, W.M.; 1332 FEET SOUTH & 2020 FEET EAST FROM NW CORNER, SECTION 9

WELL #11: NESW, SECTION 9, T15S, R13E, W.M.; 2530 FEET NORTH & 2160 FEET EAST FROM SW CORNER, SECTION 9

THE PLACE OF USE IS LOCATED AS FOLLOWS:

WITHIN THE MUNICIPAL SERVICE BOUNDARY OF THE CITY OF REDMOND

Application G-14908 Water Resources Department

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## Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a totalizing flow meter at each point of appropriation. The permittee shall maintain the meter in good working order.
- B. The permittee shall keep a complete record of the amount of water used each month, and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water-use information, including the place and nature of use of water under the permit.
- C. The permittee shall allow the watermaster access to the meter; provided however, where any meter is located within a private structure, the watermaster shall request access upon reasonable notice.
- D. The Director may provide an opportunity for the permittee to submit alternative measuring and reporting procedures for review and approval.

Use of water under authority of this permit may be regulated if analysis of data available after the permit is issued 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 the right or as those quantities may be subsequently reduced. However, the use of ground water allowed under the terms of this permit will not be subject to regulation for Scenic Waterway flows so long as mitigation is maintained.

Within five years of permit issuance, the permittee shall submit a Water Management and Conservation Plan consistent with OAR Chapter 690, Division 86. The Director may approve an extension of this time line to complete the required Water Management and Conservation Plan. The time line for submittal of a plan under this permit does not alter the time lines for submittal of a plan under any other order of the Department.

Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.

**GROUND WATER MITIGATION CONDITIONS**

Mitigation Obligation: 1746.0 acre-feet annually in the General Zone of Impact, located anywhere in the Deschutes River basin above the Madras gage, which is located below Lake Billy Chinook.

Mitigation Source: 1746.0 acre-feet of mitigation water from mitigation project MP-175, established by instream water right certificate 88033, within the General Zone of Impact.

Mitigation water must be legally protected instream for instream use within the General Zone of Impact and committed for the life of the permit and subsequent certificate(s). Regulation of the use and/or cancellation of the permit, or subsequent certificate(s), will occur if the required mitigation is not maintained.

The permittee shall provide additional mitigation if the Department determines that average annual consumptive use of the subject appropriation has increased beyond the originally mitigated amount.

If mitigation is from a secondary right for stored water from a storage project not owned or operated by the permittee the use of water under this right is subject to the terms and conditions of a valid contract, a copy of which must be on file in the records of the Water Resources Department prior to use of water.

The permittee shall provide a mitigation update report to the Department, with a copy to WaterWatch, every three years until the permit is fully developed. The report shall compare actual monthly water use to the estimates used for determining prior mitigation requirements and shall identify whether additional mitigation is required.

The permittee shall provide 90 days prior written notice to the appropriate OWRD Watermaster in the event that the permittee intends to irrigate with reclaimed water that originates from water use under this permit.

Failure to comply with these mitigation conditions shall result in the Department regulating the ground water permit, or subsequent certificate(s), proposing to deny any permit extension application for the ground water permit, and proposing to cancel the ground water permit, or subsequent certificate(s).

**STANDARD CONDITIONS**

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

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If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may be subject to cancellation, unless the Department authorizes the change in writing.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

The wells shall be constructed 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 adequate to determine water level elevation in the well at all times.

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

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

Actual construction of the well(s) shall begin within one year from permit issuance. Complete application of the water to the use shall be made within twenty years of the date of permit issuance. If beneficial use of permitted water has not been made before this date, the permittee may submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after making beneficial use of water, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner.

Issued May 9, 2013

*E. Timothy Wallin*

E. Timothy Wallin, Water Rights Program Manager  
for Phillip C. Ward, Director  
Water Resources Department

Application G-14908 Water Resources Department  
Basin 5

PERMIT G-14902  
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**Attachment B**  
**Application Maps**

Application for Amendment of Permit G-17042 – City of Redmond

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**From:** STARNES Patrick K \* WRD  
**To:** Trevor Grandy  
**Subject:** RE: Request for map scale waiver for the City of Redmond  
**Date:** Tuesday, January 29, 2019 7:47:22 AM  
**Attachments:** image001.jpg

---

Hi Trevor –

The Department has reviewed your attached permit amendment application maps and grants map scale waivers for the maps. Please include a copy of this e-mail with the permit amendment application when it is submitted.

Sincerely,

Kelly

\*\*\*\*\*  
Kelly Starnes, Transfer Program Analyst  
Oregon Water Resources Department  
725 Summer St NE Suite A  
Salem OR 97301-1271  
Telephone: 503-986-0886 Fax: 503-986-0903  
E-mail: [patrick.k.starnes@oregon.gov](mailto:patrick.k.starnes@oregon.gov)

Please Note: Under Oregon Law, messages to and from this e-mail address may be available to the public.

\*\*\*\*\*

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**From:** Trevor Grandy [mailto:[tgrandy@gsiws.com](mailto:tgrandy@gsiws.com)]  
**Sent:** Thursday, January 24, 2019 3:10 PM  
**To:** STARNES Patrick K \* WRD  
**Subject:** RE: Request for map scale waiver for the City of Redmond

Kelly,

I just wanted to follow up with you on this map waiver request I sent to Lisa on Wednesday. Please feel free to contact me with any questions.

---

**From:** JARAMILLO Lisa J \* WRD [mailto:[Lisa.J.Jaramillo@oregon.gov](mailto:Lisa.J.Jaramillo@oregon.gov)]  
**Sent:** Wednesday, January 16, 2019 2:13 PM  
**To:** Trevor Grandy <[tgrandy@gsiws.com](mailto:tgrandy@gsiws.com)>; STARNES Patrick.K \* WRD <[Patrick.K.Starnes@oregon.gov](mailto:Patrick.K.Starnes@oregon.gov)>  
**Cc:** Adam Sussman <[asussman@gsiws.com](mailto:asussman@gsiws.com)>  
**Subject:** RE: Request for map scale waiver for the City of Redmond

Hi Trevor,

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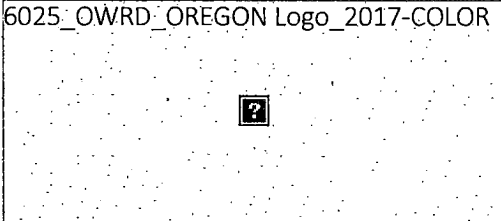
Kelly Starnes is our Transfer Program Advisor, so I'm forwarding your email to him so he can respond to your map scale waiver request.

Thank you,  
Lisa Jaramillo

**LISA J. JARAMILLO** | TRANSFER & CONSERVATION SECTION MANAGER

725 Summer Street NE, Suite A Salem, OR 97301 | Phone 503-986-0880

6025\_OWRD\_ OREGON Logo\_2017-COLOR



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

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**From:** Trevor Grandy [mailto:tgrandy@gsiws.com]

**Sent:** Wednesday, January 16, 2019 1:41 PM

**To:** JARAMILLO Lisa J \* WRD <Lisa.J.Jaramillo@oregon.gov>

**Cc:** Adam Sussman <asussman@gsiws.com>

**Subject:** Request for map scale waiver for the City of Redmond

Dear Ms. Jaramillo,

The City of Redmond is preparing a permit amendment application to change the location of three points of appropriation authorized by Permit G-17042.

Because of the size of Redmond's service area, we are requesting a map scale waiver for the existing place of use map. (See attached.) The authorized/proposed point of appropriation map is attached and is at a standard scale (1 inch=1,320 feet).

Please let me know if you had any questions regarding our map scale waiver request.

Thank you,

**Trevor Grandy**

**Water Resources Analyst**

direct: 541.753.0933 | mobile: 614.493.7292

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  
Land Use Form**

**Application for Amendment of Permit G-17042 – City of Redmond**

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DESC\_55853: Well #6  
DESC\_57788: Well #7

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**Attachment D  
Well Logs**

**Application for Amendment of Permit G-17042 – City of Redmond**

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**13114**

(1) OWNER: Well Number: #6  
 Name City of Redmond  
 Address 875 S.E. Sisters, Ave.  
 City Redmond State OR Zip 97756

(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 855 ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE		SEAL		Amount	
Diameter	From To	Material	From To	sacks or pounds	
26in	0 867	Cement Grout	374 399	88 sacks	
		Cement	0 98	12 Cu. Yds.	

How was seal placed: Method  A  B  C  D  E  
 Other  
 Backfill placed from 99 ft. to 399 ft. Material Bentonite 31cyd  
 Gravel placed from 399 ft. to 855 ft. Size of gravel 6x12 RMC

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	16in	+2	550	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	16in	850	855	.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 Slotted Material SS316L

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
550	850	.070		16in	pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
2700	6	400	24 hr.

Temperature of Water 54 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 15S N or S. Range 13E E or W. of WM.  
 Section 21(D) NW 1/4 SE 1/4  
 Tax lot 400 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) 2551 S.W. 6th St., Redmond, OR

(10) STATIC WATER LEVEL:  
336 ft. below land surface. Date 12/22/03  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

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

From	To	Estimated Flow Rate	SWL
342	697	1500	336
697	811	1000	336
811	867	4000+	336

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

Material	From	To	SWL
See attached lithology prepared by Mr. Dale Bugenig. Hole sloughed back prior to casing installation in bottom. 857-867.			
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WESTERN WATER DEVELOPMENT			
P.O. Box 1670			
REDMOND, OR 97756			

Date started 4/2/03 Completed 12/31/03

(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 my best knowledge and belief.

Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
 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 Robert Buckner WWC Number 1385  
 Date 1/27/04

DESC 55853 DRILLERS' LOG OF BOREHOLE

BOREHOLE REDMOND WELL #6 PAGE 1 OF 6

LOC. OR COORDS. <u>SE 1/4 Sec. 21, T.15S., R.13E. (Williamette Mt.)</u>	DRILLER <u>WESTERN WATER DEVELOPMENT</u>	START DATE <u>4/02/03</u>	FINISH DATE <u>10/31/03</u>
GROUND ELEV. _____	RIG <u>RACINUS-ERIE 36L</u>	TIME <u>08:30</u>	<u>16:00</u>
TOTAL DEPTH _____	BIT(S) <u>2 1/2" Star</u>	GEOPHYS. LOG <u>YES</u> <u>NO</u>	
BOREHOLE DIAM. <u>2 1/2"</u>	FLUID <u>Not Applicable</u>	HOW LEFT <u>See Const. log</u>	

LOCATION 121° 10' 28" W 44° 15' 33" N  
 LOGGED BY GALE ARBENATHY & SUE ENGINER  
 PROJECT CITY OF REDMOND, OR  
 WELL #6

DEPTH	PEN. RATE	CIRC. REV. LOSS	AIR LIFT Q (GPM)	MATERIAL	SYMBOL	DESCRIPTION AND COMMENTS
	1.047	6.6	7/2			0-1 Brown sand 1-2 Broken brown & grey lava
10	8.5	4/3		Lava Flow		2-14' Grey vesicular lava
20	2.5	7/4				14-24' Hard grey lava
30	3.5	7/4		Rubble Zone		24-28.5' Brown lava w/ red cinders
40	3	4/4				31-32 Hard grey lava 32-33 Sandstone 33-34 Dark brown & grey lava rock, broken or casing 34-35 Brown & grey lava, broken, casing 35-40 Hard grey lava 40-43 Hard grey lava 43-45 Hard grey rock 45-47 Hard grey rock
50	2	7/10				47-50 Grey lava rock 50-54 Hard grey lava
60	2	4/24		Lava Flow		55-59 Hard grey lava Med grey lava 61-66 medium grey lava
70	5	4/28				66-71 Medium grey lava 71-77 Medium grey lava Med. grey lava
80	4	7/30				Med. hard grey lava
90	3	5/7		Inter Flow Zone		80-88 Med Hard grey lava 88-91 Red & Brown conglomerate 91-92 Harder grey & brown lava 92-95 Hard dark grey lava 95-101 Black, grey & brown lava
100	5	5/8				101-106
110	4	5/7		Cinders Sandstone		107-108 Red Cinders conglomerate 110-112 113-115 Brown & Grey lava 115-117 Brown & Grey lava
120	3	5/11				117-122 Hard grey lava 122-127 Grey lava 127-131 Med. grey lava
130	3	5/14		Lava Flow		131-134 Hard grey lava 134-136 Hard grey lava 136-141 med grey lava
140	4	5/17				141-146 Med grey lava 146-147 Med. grey lava 147-150 Red & brown sandstone
150	9	5/21		Sandstone		

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Added cement to stabilize borehole

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DESC  
55853

DRILLERS'  
LOG OF BOREHOLE

BOREHOLE REDMOND WELL 4

PAGE 2 OF 6

LOC. OR COORDS. SE 1/4 Sec. 21  
T. 15S, R. 13E. (Willema He Meridian)  
GROUND ELEV. \_\_\_\_\_  
TOTAL DEPTH 872 FT  
BOREHOLE DIAM. 26"

DRILLER WESTERN WATER  
DEVELOPMENT \_\_\_\_\_  
RIG BACCHUS-518 36L  
BIT(S) 26" STAR  
FLUID Not Applicable

START FINISH  
DATE 4/02/03 10/30/03  
TIME 08:30 16:00  
GEOPHYS. LOG YES NO  
HOW LEFT See Constr Log

LOCATION 121° 10' 42.8" W 44° 15' 17.3" N  
LOGGED BY SALE ABERNATHY & BOB BRICKMAN  
PROJECT CITY OF REDMOND DR  
WELL # 4

DEPTH	PEN. RATE	CIRC		AIR LIFT Q(GPM)	MATERIAL	SYM-BOL	DESCRIPTION AND COMMENTS
		RET.	LOSS				
160	9	4/2				150-151 Red & brown sandstone	RECEIVED JAN 28 2004
	7	5/22				155-162 Medium brown sandstone MISSING reports	
170	6	5/27			Sandstone	170-172 Brown & green sandstone 173-176 Brown & grey - Broken water loss 174'	
180	8	5/28				177-179 Brown & black sandstone	
190	5	5/29				187-197 Brown & black sandstone	
	3	5/23				189-192 Grey & black sandstone	
200	4	6/2				192-196 Grey & brown lava	RECEIVED JAN 30 2019
	2	6/3				196-198 Broken brown & grey lava	
210	3	6/5			Basalt Lava Flow	198-203 Hard grey basalt, broken 203-206 Hard grey basalt, broken	OWRD
	5	6/6				206-211 Hard grey basalt, broken	
220	2	6/7				211-215 Grey basalt 213-216 Grey basalt	
	3	6/7				216-220 Hard grey basalt	
230	4	6/10				220-224 Hard grey basalt	
	4	6/12			rubic zone	224-226 Hard grey basalt. Loss due @ 224.5' Broken 224'-226. Hammer 226-228'	
2	6/13			228-230 Broken grey lava Run 2nd Plumbress Test			
240	5	6/10				230-235 Broken black & brown lava	
	3	6/14				237-238 Hard dark grey-black lava - Caving?	
250	7	6/16			Basalt Lava Flow	238-242 Black & Brown lava - Sloughing @ 226'	
	5	6/15				242-247 Black & brown lava, softer & broken	
260	6	6/10				247-253 Black & brown lava	
	4	6/13				253-257 Hard grey basalt	
270	5	6/14				257-260 Hard grey basalt	
	8	6/22			Volcanic Conglomerate	260-262 Broken grey lava 262-264 Broken grey	
8	6/22			264-270 Brown volcanic conglomerate			
280	8	6/22				270-278 Brown volcanic conglomerate	
	11	6/23				278-292 Brown volcanic conglomerate	
290	3	6/18				292-295 Brown volcanic conglomerate Rig down for repairs thru 4/10	
300	7	7/6				293-300 Dark grey volcanic conglomerate	

# DRILLERS' LOG OF BOREHOLE

BOREHOLE Redmond Well 6

PAGE 3 OF 6

LOC. OR COORDS. <u>SE 1/4 Sec 21</u>	DRILLER <u>WESTERN WATER</u>	START DATE <u>4/02/03</u>	FINISH DATE <u>10/30/03</u>
<u>T.15N R.13E (Williamette Mendocino)</u>	<u>DEVELOPMENT</u>	TIME <u>08:30</u>	<u>10:00</u>
GROUND ELEV. _____	RIG <u>DRILLERS ERIC 36L</u>	GEOPHYS. LOG <u>YES</u> <u>NO</u>	
TOTAL DEPTH <u>872 FT</u>	BIT(S) <u>2 1/2" STAR</u>	HOW LEFT <u>See Constr. Log</u>	
BOREHOLE DIAM. <u>2 1/2"</u>	FLUID <u>H<sub>2</sub>O</u>		

LOCATION 121° 10' 28" W 41° 17' 13" N  
 LOGGED BY G. BERGSTRAND & BOB BUCKNER  
 PROJECT CITY OF REDMOND, OR  
 WELL # 6

DEPTH	PEN. RATE	CIRC. RET. LOSS	AIR LIFT Q (GPM)	MATERIAL	SYMBOL	DESCRIPTION AND COMMENTS
		7 7/8		volcanic conglomerate	300-307	
310		5 7/8			307-312	Dark grey volcanic conglomerate
		6 7/10			312-316	Dark grey volcanic conglomerate
320		7 7/11		Sandstone	316-318	Brown hard sandstone
		7 7/14			318-225	Brown sandstone
330		7 7/14			325-327	Brown sandstone
		6 7/15	341 335 340		327-332	Brown sandstone
340		9 7/16		Sandstone w/ gravel	332-334	Dark grey sandstone
		11 7/17			334-338	Brown sandstone
350		12 7/18			338-347	Brown sandstone w/ gravel
360		10 7/21		Sandstone	347-358	Brown sandstone w/ gravel water @ 355' + 511'
370		11 7/21			358-370	Brown sandstone w/ gravel
380		10 7/21			370-380	Grey sandstone
		10 7/21			380-381	Notes problems with casing, lost 9' 7/22, filled 380 to 371'
390		10 7/21			381-391	Light grey sandstone
400		8 7/28			391-397	grey sandstone
		13 7/29			397-405	Brown & grey sandstone
410		10 7/30			405-418	Brown sandstone
420		10 7/30			418-428	Brown & grey sandstone
430		10 7/30			428-438	Brown & grey sandstone
440		8 8/1			438-445	Brown & grey sandstone
450		8 8/14			445-451	Red-brown sandstone - Planiness & alignment test performed @ 440'

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# DRILLERS' LOG OF BOREHOLE

BOREHOLE Redmond Well 6

PAGE 4 OF 6

LOC. OR COORDS. <u>SE 1/4 Sec 21, T. 15 S, R. 13 E. (Williamette Co.)</u>	DRILLER <u>WESTERN WATER DEVELOPMENT</u>	START DATE <u>7/01/03</u>	FINISH DATE <u>10/30/03</u>
GROUND ELEV. _____		TIME <u>08:30</u>	<u>16:00</u>
TOTAL DEPTH <u>872 FT</u>	RIG <u>BAGWELLS ERIC SGL</u>	GEOPHYS. LOG <u>X</u> YES <u>NO</u>	
BOREHOLE DIAM. <u>2.6"</u>	BIT(S) <u>2.6" SPAZ</u>	HOW LEFT <u>See Coring Log</u>	
	FLUID <u>N/A</u>		

LOCATION 12° 10' 42.8" N 124° 15' 19.3" W  
 LOGGED BY GALE ABERNATHY & BOB BUCKNER

PROJECT CITY OF REDMOND  
 WELL # 6

DEPTH	PEN. RATE	CIRC. REC. (GPM)	AIR LIFT (GPM)	MATERIAL	SYM-BOL	DESCRIPTION AND COMMENTS
				Sandstone		
460	8 8/5				457-458 Red brown sandstone	
					458-462 Brown-tan sandstone	
470	14 9/6				462-470 Brown-Tan sandstone	RECEIVED
					470-477 Grey sandstone	JAN 30 2019
480	11 7/7				476-487 Grey sandstone	OWRD
490	8 8/8				487-492 Grey sandstone - possibly broken. Need 1 inch cement	
500					495-500 Brown & grey sandstone	
					500-508 Grey sandstone, siltier	
510	12 8/12				508-520 Grey sandstone w/ black sand streaks	RECEIVED
520	10 8/13				520-530 Brown & grey sandstone	JAN 28 2004
530	12 8/14			sandstone w/ gravel	530-542 Brown sandstone w/ pea gravel	
540	12 8/15				542-557 Dark grey sandstone w/ gravel	
550						
560	13 8/18				554-567 Dark grey sandstone w/ gravel	
570	10 8/17				567-577 Dark grey sandstone w/ gravels possibly sloughing	
580	13 8/20				577-590 Dark grey sandstone w/ gravel	
590	15 8/20				590-597 Dark grey sand w/ gravels	
600					590-597 Tan-brown sandstone w/ gravels	

PRILLET'S  
LOG OF BOREHOLE

BOREHOLE Redmond well 6

PAGE 5 OF 6

LOC. OR COORDS. SE 1/4 Sec 21 T.15S R.13E (Williamette)  
GROUND ELEV. \_\_\_\_\_  
TOTAL DEPTH 872 FT  
BOREHOLE DIAM. 26"

DRILLER WESTERN  
WATER DEVELOPMENT  
RIG Buck-Rue-221E 366  
BIT(S) 26" STAR  
FLUID N/A

START FINISH  
DATE 4/02/03 10/30/03  
TIME 08:30 16:00  
GEOPHYS. LOG YES NO  
HOW LEFT See Constr. Log

LOCATION 121° 10' 42.3" W 49° 15' 13.1" N  
LOGGED BY GALE ABERNATHY & BOB BUCKNER

PROJECT CITY OF REDMOND  
WELL # 6

DEPTH	PEN. RATE	REL. LOSS	AIR LIFT Q (GPM)	MATERIAL	SYMBOL	DESCRIPTION AND COMMENTS
		15' 8/11		sandstone w/ gravel		577-605 Tan-brown sandstone w/ gravels
610		12' 8/22				605-618 Brown sandstone w/ gravel
620		14' 8/25				618-632 Brown sandstone w/ gravel
630						
640		10' 8/26				632-650 Dark brown sandstone w/ cinders & gravels
650						
660		9' 8/23				650-670 Dark brown sandstone w/ gravels
670						
680		16' 8/28				670-686 Dark brown sandstone w/ gravels
690						
700		14 1/2' 8/27				686-697 Dark brown sandstone w/ gravels & cinders
						697-699 Hard gray lava
						699-703 Hard gray lava
710		5' 9/2				703-706 Hard gray basalt
		3 1/2' 9/3				706-708.5 Hard gray basalt
		4' 9/5				708.5-712.5
		5' 9/8		Basalt lava flow		712-715 Hard gray basalt
720		3 1/2' 9/10				715-716.5 Hard gray basalt
		4' 9/11				720-724.5 Hard lt gray basalt
730		7' 9/12				724.5-729 Hard gray basalt
		4' 9/15				729-733 Hard gray basalt
		8' 9/16				733-735.5 Hard gray basalt
740				sandstone w/ gravel		735.5-741 Brown sandstone w/ small gravel
						741-746 Brown sandstone w/ gravel
750		12' 7/7				746-753 gray sandstone w/ gravel

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# DRILLERS' LOG OF BOREHOLE

BOREHOLE Redmond Well 6

PAGE 6 OF 6

LOC. OR COORDS. <u>SE 1/4 Sec 21</u> <u>T.15S., R.13E (Klamath Co)</u>	DRILLER <u>WESTER</u>	START DATE <u>4/02/03</u>	FINISH DATE <u>10/30/03</u>
GROUND ELEV. _____	WATER DEVELOPMENT _____	TIME <u>08:30</u>	<u>18:00</u>
TOTAL DEPTH <u>872 ft</u>	RIG <u>Eucyrus-Evoe 36L</u>	GEOPHYS. LOG <u>X</u> YES <u>NO</u>	
BOREHOLE DIAM. <u>26"</u>	BIT(S) <u>2 1/2" Star</u>	HOW LEFT <u>Sub Constr.</u>	
FLUID <u>None</u>		Log	

LOCATION 121°10.428'W 44°15.175'N  
 LOGGED BY Gale Akerberry / Bob Ballner  
 PROJECT CITY OF REDMOND  
 WELL # 11

DEPTH	PEN. RATE	AIR LIFT Q(GPM)	MATERIAL	SYMBOL	DESCRIPTION AND COMMENTS
	12	9/13	Sandstone	800-802	746-753 grey sandstone w/ gravel
710	4	9/18	Basalt	753-757	Hard grey vesicular lava
	3	9/19		757-760	Hard grey basalt
	3	9/22		760-763	Hard grey basalt
	4	7/23		763-765	Hard grey basalt
770			Flow boundary?	765-767	Dark grey lava (cotton)
	7	7/24		767-774	Dark grey lava
780	6	7/25		774-780	Grey vesicular lava
	4	9/26		780-784	Grey Vesicular Basalt, Harder
790	4	7/23		784-788	
	4	9/30		788-792	Hard grey basalt
	2	10/19		792-797	Hard grey basalt
	3	10/22		797-799	Hard grey basalt
800			Flow boundary?	799-803	Grey vesicular lava Broken?
	7	10/26		803-806	Hard grey basalt
810	5	10/18		806-807	Hard grey basalt
	5	10/17		807-811	Dark grey vesicular lava. Note - Driller remarked the water in the bailer was clean.
	1	10/16		811-814	Dark grey Vesicular Lava
820	5	10/16	Flow boundary	814-817	Grey vesicular lava
	3	10/14	NO CUTTINGS	817-822	Grey vesicular lava? NO SAMPLE AFTER 215 FT LIVE WATER - 806
	5	10/14		822-825	Grey vesicular lava? NO SAMPLE COLLECTED IN BAILER
820	5	10/14		825-830	Fractured lava? NO SAMPLE
	5	10/16		830-835	Fractured lava? NO SAMPLE
840	7	10/20		835-842	Fractured lava? NO SAMPLE
	3	10/20		842-845	Fractured lava? Harder. Cuttings returned 842'
850	2	10/22		845-848	Dark grey basalt
	4	10/24		848-850	Hard grey basalt. Gaining (from 806)
	12	10/27	NO CUTTINGS	850-854	Hard grey lava
860				854-860	Broken lava? No cuttings
	5	10/28	Cinders, sand & gravel	860-866	Dark red-brown cinders with sand & small gravel. Good hole
870	1	10/29		866-868	Brown red cinders & gravels. Note: 4' of fine sand at bottom
				868-871	Brown & grey vesicular lava
880				871-872	[Terminate drilling on 10/29 due to formation instability. Bail the hole on 10/30]
					E-Logged 11/2/03 - stopped in to 862'

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13114

STATE OF OREGON  
**WATER SUPPLY WELL REPORT**  
 (as required by ORS 537.705)  
 Instructions for completing this report are on the last page of this form

**DESC 57788**

*DESC 57788*

WELL ID # L **84243**  
 (START CARD) # **187111**

(1) OWNER: **City of Redmond** Well Number: **7**

Name: **City of Redmond**  
 Address: **P.O. Box 728**  
 City: **Redmond** State: **OR** Zip: **97756**

(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 **882** ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
26	0	862	Cement Slurry	0	88	210 sacks
			Cement Slurry	282	322	242 sacks

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

Backfill placed from **88** ft. to **275** ft. Material: **Bentonite Chips**  
 Gravel placed from **322** ft. to **862** ft. Size of gravel: **6x12 & 1/4-**

(6) CASING/LINER:

Casing:	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
	16	+2	525	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16in	625	700	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16in	750	780	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16in	860	862.5	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Liner: \_\_\_\_\_

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

(7) PERFORATIONS/SCREENS:

Perforations Method **Factory**  
 Screens Type **Slotted** Material **316L**

From	To	Slot size	Number	Diameter	Tote/pipe size	Casing	Liner
525	625	.100		16in	pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>
700	750	.100		16in	pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>
780	860	.080		16in	pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
2700	3	370	24 hr.

Temperature of Water **54-58** Depth Artesian Flow found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom **Umpqua Labs**  
 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 **15S** N or S. Range **13E** E or W. of WM.  
 Section **10(D)** NW 1/4 **SE** 1/4  
 Tax lot **1100** Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) **450 NE 11th St.**  
**Redmond, OR 97756**

(10) STATIC WATER LEVEL:  
**326** ft. below land surface. Date **12/13/2006**  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found **335**

From	To	Estimated Flow Rate	SWL
335	850	5000+	328

(12) WELL LOG: Ground elevation **3040'**

Material	From	To	SWL
<b>See Attached Borehole Lithology</b>			
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<b>WATER RESOURCES DEPT SALEM, OREGON</b>			
<b>WESTERN WATER DEVELOPMENT RECEIVED</b>			
<b>P.O. Box 1670</b>			
<b>Redmond, OR 97756 FEB 07 2007</b>			
<b>WATER RESOURCES DEPT SALEM, OREGON</b>			

Date started **6/7/2006** Completed **12/14/2006**

(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 my best knowledge and belief.

Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
 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 *Robert Buckner* WWC Number **1385**  
 Date **12/24/2006**

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**DESC 57788**

**CITY OF REDMOND  
WELL #7 DRILLERS FROMATION LOG**

<b>Description</b>	<b>From</b>	<b>To</b>	
3/4" Crushed Rock	0	1	
Broken Gray Lava	1	15	
Gray Basalt	15	31	
Red Cinders	31	34	
Broken Black/Red Rock	34	53	
Brown Rock	53	61	
Black Lava	61	77	
Brown Sandstone	77	84	
Brown Conglomerate	84	88	
Black Lava	88	107	
Brown Sandstone	107	121	
Redish & Black Lava	121	130	
Brown Sandstone	130	133	
Black Lava	133	144	
Gray Lava	144	158	
Reddish Brown Rock	158	159	
Brown Rock	159	172	
Brown Sandstone	172	176	
Red and Black Lava	176	181	
Redish & Brown Sandstone	181	191	
Black Lava	191	206	
Brown Sandstone	206	209	
Coarse Black Sand	209	221	
Black Lava	221	243	
Brown Sandstone	243	249	
Black Lava & with Brown Ash	249	273	
Hard Black Basalt	273	283	
Red Sandstone	283	306	
Brown Sandstone	306	325	
Light Brown Sandstone	325	335	
Dark Brown Sandstone	WB 335	391	330
Black Sandstone	WB 391	423	328
Fine Black Sand	WB 423	458	328
Brown Sandstone	WB 458	526	328
Broken Blue & Gray Basalt	WB 526	529	328
Blue & Gray Basalt	WB 529	537	328
Gray Basalt	WB 537	553	328
No Cuttings Semi Soft	WB 553	585	328
No Cuttings Harder	WB 585	580	328
Red & Black Basalt	WB 580	600	328
No Cuttings Broken & Hard	WB 600	610	328
Black Basalt	WB 610	613	328
Black Sandstone	WB 613	625	328
Brown Sandstone	WB 625	632	328
Reddish Brown Sandstone	WB 632	641	328
Multi Colored Coarse Sand	WB 641	658	328

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**DESC 57788**

Dark Brown Sandstone	WB	658	690	328
Brown Sandstone	WB	690	706	328
Blue & Gray Basalt	WB	706	711	328
Gray Basalt	WB	711	731	328
No Cuttings Soft	WB	731	734	328
No Cuttings Harder	WB	734	741	328
No Cuttings Soft	WB	741	745	328
No Cuttings Harder	WB	745	750	328
Broken Vesicular Basalt	WB	750	754	327
Black Sandstone	WB	754	770	327
Black & Brown Sandstone	WB	770	785	327
Vesicular Black Basalt	WB	785	790	327
Vesicular Red & Black Basalt	WB	790	800	327
Hard & Broken No Cuttings	WB	800	810	327
Brown Sandstone with Multi				327
Colored Sand Lenses	WB	810	818	327
Vesicular Red & Black Basalt	WB	818	826	327
Black Sandstone	WB	826	831	327
Black & Gray Basalt	WB	831	838	327
Red & Black Basalt	WB	838	843	327
Vesicular Black Basalt	WB	843	847	327
Hard Black & Gray Basalt	WB	847	850	327
Very Hard Gray Basalt		850	860	327

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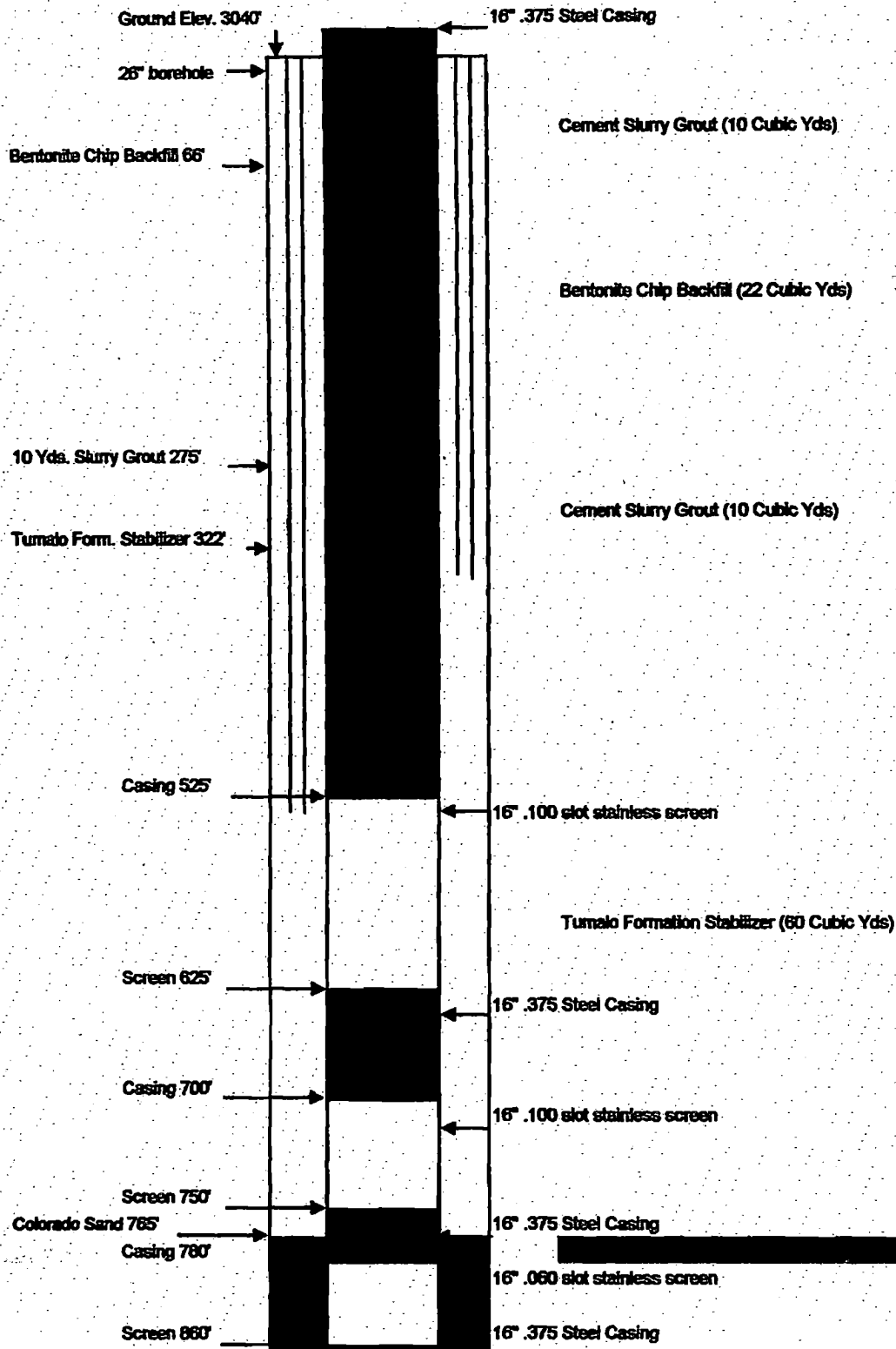
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**CITY OF REDMOND WELL #7 AS BUILT**



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January 29, 2019

Kelly Starnes  
Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem, OR 97301

Re: Permit Amendment for Permit G-17042 in the name of the City of Redmond

Dear Mr. Starnes:

GSI Water Solutions, Inc. (GSI) is submitting this permit amendment application on behalf of the City of Redmond. The City is proposing to change the location of three points of appropriation to Permit G-17042. The City of Redmond proposes to change the location of Wells 6, 7, and 8 which are authorized under Permit G-17042. To date, Wells 6 and 7 have been drilled.

Please find enclosed the Permit Amendment Application and a check in the amount of \$1,570.00 for the application fee.

Please let me know if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Adam Sussman", is written over a horizontal line.

Adam Sussman  
Principal Water Resources Consultant

Cc: Josh Wedding, City of Redmond

Enclosures: Permit Amendment Application;  
Check in the amount of \$1,570

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