

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 79-14245

Exam Date: 8/21/2012

1. Current Owner: RIVER FRONT GARDENS HOMEOWNERS ASSOCIATION
72 RIVER FRONT RD
LUCILE ID 83542
(208) 628-3400
2. Accompanied by: Shellie Heath
Phone No: Same
Address: Same
Relationship to Permit Holder: Treasurer

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 79-4004, 79-4005, 79-4090
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L7 NW1/4SE1/4 Sec. 12, Twp 26N, Rge 01E, B.M.
IDAHO County

Method of Determination: Arc Map (Aerial Photo); GPS Latitude N.45°36.250', Longitude W.116°16.308'; Datum – NAD83.

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
26N	01E	12														X			
																L 7			

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
26N	01E	12														1.7			
																L 7			1.7

Method of Determination: Arc Map (Aerial Photo)

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
D0059362	Unknown	3	Unknown	Unknown	(1 1/2")

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
N/A						

2. Measurements: No field measurement. Pop-up sprinklers and pressure tank in pump house. Gauge pressure of 62 psi without irrigation system in operation.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical)

$$Q = 8.8 \times 0.7 \times 3/113 + (2.31 \times 40) = 18.48/205.4 = 0.09 \text{ cfs}$$

$$HP = 3$$

$$Z = 113'$$

$$P = 40 \text{ psi (Assumed)}$$

Appears that the water supply system is not capable of attaining the permit diversion rate of 0.19 cfs, which is consists of a diversion rate of 0.10 cfs for internal domestic use for 6 homes, and 0.09 cfs for irrigation of up to 1/2 acre per lot, or 3 total acres. Recommend beneficial use diversion rate of 0.09 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.7 \times 4.0 = 6.8 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 294 \times 1.9835 = 29.2 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.8 \text{ AFA}$$

2. Volume Calculations for Other Uses: (Domestic - Internal)

$$V_r = 6 \text{ homes} \times 0.60 \text{ AFA} = 3.6 \text{ AFA}$$

$$V_d = 0.09 \times 365 \times 1.9835 = 65.2 \text{ AFA}$$

$$V(\text{recommended}) = 3.6 \text{ AFA}$$

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A ground water well with a 3-hp submersible pump supplies water for domestic use for six (6) lots (Lots 3 – 8) within the Riverfront Gardens Subdivision. Water is pumped to a pump house for distribution to the potable water system for the homes and to the pressurized irrigation system for irrigation of lawn and landscaping.

Although this permit is for general domestic use for six (6) homes, approval conditions #2 #5, and #6 indicate that the domestic designation for this permit is single household domestic. As a clarification to this permit, an irrigation beneficial use has been added to conform to the definition of general domestic use. Based on this clarification and change to general domestic, recommend elimination of Conditions X070, X071, and X01, and replace with Condition 132:

Domestic use is for internal use for 6 homes. Irrigation of lawns, gardens, and landscaping associated with the homes is authorized under the irrigation component of this right.

IRRIGATION SYSTEM:

The pressurized irrigation system is comprised of pop-up sprinklers, and irrigates approximately 1.7 acres of lawn and landscaping. Approximately 0.7 acres of the 1.7 acres is common area. Since irrigable area is less than 5 acres, the irrigation appropriation shall be 0.05 cfs (0.03 x 1.7).

OVERLAP ANALYSIS**(Place of Use):**

Water Right 79-4004: Irrigation water right for 13.0 acres of irrigable land. Point of diversion is the Salmon River.

Water Right 79-4005: Domestic water right for 13.2 acres of irrigable land. Point of diversion is the Salmon River.

Water Right 79-4090: Irrigation water right for 5.0 acres of irrigable land. Point of diversion is the Salmon River.

These three rights are statutory claims. No SRBA adjudication claims were filed, so these three statutory claims are not water rights. Therefore, there are no place of use overlaps.

Point of Diversion:

There are no point of diversion overlaps. A well, which served the entire Riverfront Gardens Subdivision from 2004 -2012, was not able to produce adequate pressure to meet the domestic and irrigation needs of the six (6) lots described in the permit. The right holder disconnected their service from the existing well, and drilled a new well to serve only the six (6) lots described in the permit.

Have conditions of permit approval been met? ☒ Yes ☐ No

CONDITION NO. 2 (070) – The irrigation occurring under this domestic use shall not exceed ½ acre within each platted lot. This right does not provide for irrigation of common areas. Based on the irrigation appropriation of up to ½ acre per lot, lots 3 – 8 of the Riverfront Gardens Subdivision are allowed to irrigate up to 3.0 acres of lawn and landscaping. Although the 1.7 acres which is irrigated is comprised of approximately 0.7 acres of common area, the 1.7 acres is considerably less than the allowable 3.0 acres. The average irrigable area for each residential lot, including the common area lot, is 0.28 acres, which is considerably less than the allowable appropriation of ½ acre per residential lot.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.19	&/or	N/A
Beneficial Use Limit	0.20	&/or	N/A
System Measurement	0.09(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.09	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.090 CFS	3.6 AFA
IRRIGATION	02/15 to 11/30	0.050 CFS	6.8 AFA
<u>Totals:</u>		0.090 CFS	10.4 AFA

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 1/3/12

Reviewer _____ Date _____

MEMORANDUM

TO: File

FROM: Steve Lester 

DATE: December 17, 2012

RE: 79-14245 Licensing Recommendations

The permit was approved for ground water tributary to the Salmon River based on a proposed well less than 100 ft. deep next to the river. The applicant's response to IDWR 6/21/2011 letter suggested the new well would be even shallower, about 67 ft. deep.

The permit allowed domestic use for potable water and yard use with the "moratorium thinking" limits of 13,000 gpd per home, up to ½ acre per yard per home, no irrigation for lots without homes and no common areas. In hindsight, this was not necessary because:

- The site was not and is not within a moratorium area compelling "moratorium domestic use" for a community well.
- There were and are no Wild and Scenic River, minimum stream flow or other impediments to using standard domestic and irrigation terms.
- Irrigating common areas should be okay for the same reasons.

Tributary Issues

A well about 100 ft. or less deep next to the river probably would be tributary similar to Basin 63 shallow ground water above Star.

The well log shows this: 140 ft. deep, cased/lined to 140 ft., perforations 100-140 ft.

In this case, a water bearing zone 100-140 ft. probably is tributary. However, we generally have refrained from adding tributary for drilled wells in Basins 77-79. The previous Salmon-Clearwater Moratorium generally (never?) did not include tributary ground water. There is no need to regulate for conjunctive management in the foreseeable future in the vicinity of this permit.

While it is probably correct that this well is tributary to the river, there is no discernible benefit in using tributary for this mostly non-consumptive, minor use of water.

Water Use Issues

Application Memo #22, "general domestic" section, directs us to use *domestic* for internal use and *irrigation* for yard etc. use for community systems. We had numerous moratorium examples of bundling both uses under *domestic* with appropriate conditions 070 and 071 for 42-111 limits per home.

There is no discernible benefit for using that approach here. The examiner found 6 lots with homes or trailers and small yards. A small common area was found. Total irrigation was only about half of the maximum yard use that could have been developed. A strict approach would consider the common area as an expansion, requiring another permit for that. A more nuanced view would allow internal domestic for 6 homes and irrigation of 1.7 acres, resulting in less consumptive use than could have been developed.

Recommend

Delete tributary.

Eliminate conditions 070, 071 and X01.

Use domestic and irrigation terms and allow 1.7 acres.

Use condition 132 instead:

Domestic use is for internal use for 6 homes. Irrigation of lawns, gardens and landscaping associated with the homes is authorized under the irrigation component of this right.

79-14245
Gov't. Lot 7

BING AERIAL PHOTO - 2011



0 40 80 160 240 320
Feet

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT *PRIVATE CLAIMS* General Land Office Records

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Search Documents Results List Survey Details

DM ID: 40322 Survey Type: Original Survey State: Idaho

Survey Plat Details Plat Image Related Documents

Sheet: 1 Description: ---

50% zoom view

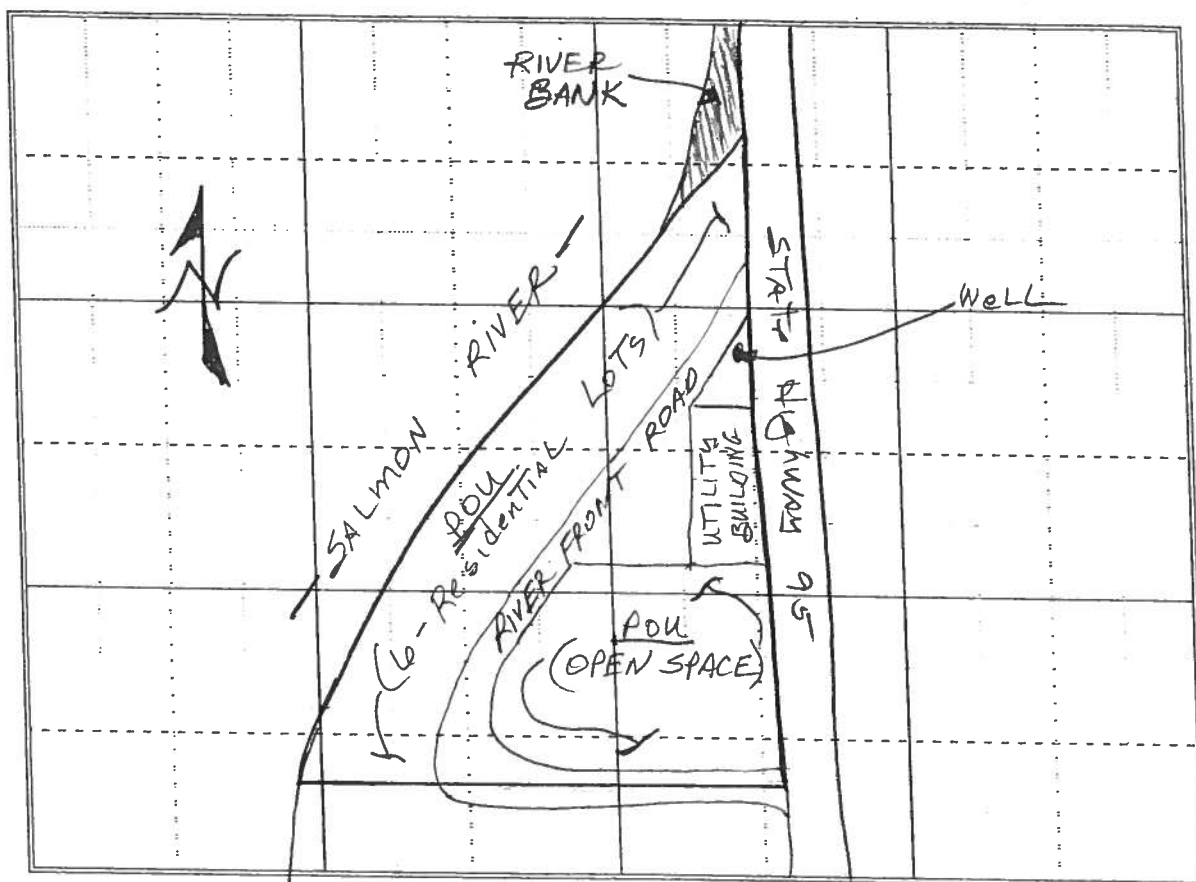
Javascript Viewer Plugin Viewer Basic Viewer

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

* Signature of Principal Driller and rig operator are required

FIELD EXAM PHOTOS

Water Right Permit: 79-14245

Field Exam Date: 8-21-12

PLS: NW1/4, SE1/4 Section 12, T.26N, R.01E.

Field Examiner: RC



Point of Diversion: View easterly of ground water well. A pump house is located approximately 15-feet south of the well.



View inside of pump house of 1 1/2" PVC supply line from well, 1" domestic service lines, and 1 1/4" PVC irrigation main line. Operating pressure for the system is 62 psi.



Place of Use: View northerly of typical lawn and landscaping for residential lots.



Place of Use: View southeasterly of open space area within River Front Garden Subdivision.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 6, 2012

River Front Gardens Homeowners Association
72 River Front Road
Lucile, ID 83542

RE: Scheduling Field Exam for Water Right Permit No. 79-14245

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 29, 30, & 31, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.19 cfs of ground water for domestic use for six homes.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 14, 2012, to conduct the exam on August 29, 30, or 31, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Water Resource Agent, Sr.