

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 81-11927

Exam Date: 07/28/2008

1. Current Owner: G SCOTT SWEARINGEN And/Or
PAMELA S SWEARINGEN
136 LITTLE SMITH CREEK RD
KOOSKIA ID 83539
(208) 926-4718

2. Accompanied by: G SCOTT SWEARINGEN

Phone No: same as above

Address: same as above

Relationship to Permit Holder: same

3. SOURCE

LITTLE SMITH CREEK

TRIBUTARY

MIDDLE FORK CLEARWATER RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: none

2. Other water rights with the same point of diversion:

81-10253; water is delivered to place of use authorized by 81-10253 through same point of diversion as developed under 81-11927 however, the point of diversion location described by right 81-10253 is inconsistent with the findings of this report

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

LITTLE SMITH CREEK SW¼NW¼SE¼ Sec. 32, Twp 33N, Rge 06E, B.M. IDAHO County

Method of Determination: Field landmark reference, GIS, Satellite Imagery
GPS was unsuccessful due to forest canopy

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>	
33N	06E	32															X		
																	L 2		

Method of Determination: GIS, Satellite Imagery

3. X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. Attachment A

X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater. Attachment A

X Aerial Photo Attached (required for irrigation of 10+ acres). Attachment A

X Photo of Diversion and System Attached. Attachment B

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>
N/A					

*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>
Bucket					5.5 gallons	
Stopwatch	Digital					

2. Measurements: 2 sprinklers operating simultaneously

North hose: ¾" garden hose and sprinkler, 5.5 gallons in 64 seconds = 5.16 gallons per minute
(Irrigates front yard)South hose: ¾" garden hose and sprinkler, 5.5 gallons in 48 seconds = 6.88 gallons per minute
(Irrigates back yard)

$$5.16 \text{ gpm} + 6.88 \text{ gpm} = 12.04 \text{ gpm}$$

$$12.04 \text{ gpm} / 448.83 \text{ gpm/cfs} = 0.027 \text{ cfs}$$

Licensed flow rate will be limited by permit to 0.02 cfs

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses: DOMESTIC

Irrigation of lawn, garden, and landscaping associated with domestic use for 1 home = 0.6 acre-feet per year
based on current Department standard for outdoor domestic use

G. NARRATIVE/REMARKS/COMMENTS

Water is diverted from Little Smith Creek approximately 800 ft upstream from the place of use utilizing a rectangular wooden box, a 4-inch diameter mesh-screened intake, and a 2-inch diameter pvc pipe. The system is gravity driven and pressurized by approximately 100 feet of elevation head. The pipe lies on the ground surface and follows the creek to the place of use where it reduces and splits into two 3/4-inch garden hoses. Impact sprinklers are attached to the hoses and moved around the property as needed to water turf grass and trees. Valves are in place to control flow to each hose.

This diversion and delivery system also provides water authorized by right 81-10253. However, while the source for this right is described as Little Smith Creek, the point of diversion is described in a different section and will not be identified in the conditions of the license for 81-11927 as sharing the same point of diversion. There are no other water rights used for irrigation at the place of use authorized by this right.

The irrigated area is approximately 1/2-acre on an 8/10-acre lot. Water for in-home domestic use is provided by a well on the property.

This permit was authorized for domestic use since Little Smith Creek is tributary to the Wild and Scenic Middle Fork Clearwater River and no new consumptive uses are authorized from the river or its tributaries. The license for this right should be issued for outdoor domestic use and be limited to 1/2-acre of irrigation and the Department standard of 0.6 acre-feet per year. The permitted season of use is April 1 to September 30 but should be modified by the license to match the Department standard for domestic use, January 1 to December 31.

A licensing amendment will be necessary to accurately describe the place of use.

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

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	0.02 CFS	0.6 AF
<u>Totals:</u>		0.02 CFS	0.6 AF

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 AARON MARSHALL Date 10/09/2008

Reviewer _____ Date _____

Attachment A

Place of use map and system diagram for Permit 81-11927



Legend

- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 100 200 400 600 800 Feet



Attachment B
Photographs of Diversion, Delivery System, and Irrigation



FIGURE 1: Diversion dike and box, view facing downstream.



FIGURE 2: Diversion box, 4" mesh-screened intake, and 2" PVC pipeline.



FIGURE 3: Pipeline along Little Smith Creek, downstream is to the left.



FIGURE 4: 2" pipeline, control valves, and reduction to hoses.
View facing downhill, Little Smith Creek on right.



FIGURE 5: Back yard and “south” hose with impact sprinkler in operation.
View facing south with garage in background.



FIGURE 6: Front yard and “north” hose with impact sprinkler in operation, view facing northeast.