

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-7549

Exam Date: 1/30/2017

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- a. Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >

2. Current Owner: Name: Doug M Parker
- Owner-of-Record Correct? ☒ Yes ☐ No
- Address-of-Record Correct? ☒ Yes ☐ No
- If No:

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: C104506

4. SOURCE**TRIBUTARY**

Priest Lake

Priest River

Method of Determination: Taxlots, GIS, aerial photographyChange in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

Refer to the attached overlap analysis spreadsheet

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments:

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments:

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

Source	Govt. Lot	¼	¼	¼	Sec.	TWP	RGE		County
Priest Lake	5		NW	SW	27	61N	04W	B.M.	Bonner

Method of Determination: Taxlots, GISChange in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **PLACE(S) OF USE:** Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
61N	04W	27										X							
												Lt 5							

Method of Determination: The legal description in the permit is confirmed by Bonner County Tax Assessor files. The home is visible in aerial photography and listed in tax records.

Change in POU? ☐ Yes ☒ No

Amendment Required? ☐ Yes ☒ No

3.

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

☐ Aerial Photo Attached (required for irrigation of 10+ acres).

☐ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

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

D. **FLOW MEASUREMENTS**

1. Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: In-office field exam. No measurements taken.

E. **FLOW CALCULATIONS**

☐ Additional Computation Sheet Attached

	Domestic
Policy standard	0.04 cfs
Permit allowed	0.04 cfs
License recommendation	0.04 cfs

F. **VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

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

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

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

Volume Calculations for Other Uses: 1 single family residence with up to 1/2 acre irrigation

G. PURPOSE OF USEIrrigation ☐ Yes ☒ No # Stock NA Domestic # of Homes 1Other: < >Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Permit 97-7549 authorized diversion of 0.04 cfs from Priest Lake for domestic use at one residence including up to 1/2 acre of irrigation. Based on the small permitted diversion rate, this permit qualifies for an in-office field exam.

Bonner County tax parcel information shows that Doug M Parker is the owner of the location of the POD and the POU. Tax records and aerial photography indicate that there is a house on the property showing beneficial use of the water. The permit application reports that water is diverted from Priest Lake with a 3/4 hp electric motor driving a vane pump. Theoretical pump calculations show that the permitted 0.04 cfs is consistent with pump capacity so this diversion rate is recommended for the license.

The POU shape was created based on the taxlot and the POD is located on the eastern side of the lot.

Condition 1 (236) was removed because the condition had been met with the permit. Condition 2 (806) was removed because the condition is no longer active. Conditions 3-9 were retained for the license.

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

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>
Domestic	01/01-12/31	0.04 cfs
	<u>Totals</u>	0.04 cfs

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 ☒ None

J. I. AUTHENTICATION - Rachael Smith - Water Right AgentField Examiner's Name Rachael Smith Date 1/30/18Reviewer Daniel A. Smith Date 1-31-18**Workflow**

Exam Date Entered ☒
 POU/POD shapes ☒
 Combined Rights Entry ☐
 Wild & Scenic Entry ☐
 Draft License and Maps ☒

Supporting Documents

Historical Imagery ☒ Well Log ☐
 Photographs ☐ Diagrams ☐
 LandSat ☐ Theoretical ☐
 Other: Theoretical pump calculations

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 97-7549
 Reviewer: Rachael Smith
 Date of Review: 1/30/2018

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

Well #1
0.75
0
10
50
0.04
17

*Minimal elevation change

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: 70 efficiency.
 No Friction

Examiners Notes:

A 3/4 hp pump is used with minimal lift at the property. The discharge pressure is likely to range between 40-60 psi so an average of 50 psi was used. Using these assumptions, pump will produce 0.04 cfs which is the the permitted amount so the diversion rate of 0.04 cfs allowed by the permit should be licensed.

Idaho Statutes

Print Friendly

TITLE 70
WATERCOURSES AND PORT DISTRICTS
CHAPTER 5
OUTLET CONTROL STRUCTURES

70-507. DIRECTOR OF THE DEPARTMENT OF WATER ADMINISTRATION TO HAVE SUPERVISION AND CONTROL. The Priest Lake outlet control structure shall, when constructed, be under the supervision and control of the director of the department of water administration, who may enter into contracts for a period of one (1) year or more with persons or corporations, by him deemed qualified, to operate and maintain, at their sole expense, said outlet control structure or any other control structure erected as a replacement thereof: provided, however, that under no circumstances shall the water surface level of Priest Lake be maintained or regulated by said director of the department of water administration above 3.0 feet on the present United States Geological Survey Priest Lake outlet gage with gage datum of 2434.64 feet above mean sea level, datum of 1929, supplementary adjustment of 1947, or released below 0.1 feet on said gage; provided further, that the water surface level of Priest Lake shall be maintained at 3.0 feet on the United States Geological Survey Priest Lake outlet gage, from and after the time each year following the run-off of accumulated winter snows, when the surface level of the waters of Priest Lake has receded to such elevation, until the time after the close of the main recreational season, as determined by said director of the department of water administration, that said lake waters may be released and the surface level permitted to recede below said elevation 3.0.

History:

[70-507, added 1950 (E.S.), ch. 61, sec. 7, p. 87; am. 1957, ch. 128, sec. 1, p. 216; am. 1961, ch. 177, sec. 1, p. 271.]

How current is this law?

Search the Idaho Statutes and Constitution

Water Right 97-07549





State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

January 16, 2018

RECEIVED

JAN 29 2018

DEPARTMENT OF
WATER RESOURCES

DOUG M PARKER
PO BOX 3130
COEUR D'ALENE ID 83816

RE: Water Appropriation Permit 97-7549

Request for Information

Dear Permit Holder:

The Department acknowledges the receipt of the Statement of Completion for Submitting Proof of Beneficial Use of Permit 97-7549. While reviewing your file, I was able to verify all of the elements necessary to license your permit, except for completion of all conditions listed on the permit. Condition #5 on the permit requires that, *"A fish screen of 1/4 inch or smaller mesh shall be installed and maintained at the point of diversion."*

Please submit a signed letter or e-mail to this department indicating whether or not this condition has been met.

Please provide the requested information by February 18, 2018. If I do not receive the requested information or have not been contacted by you by February 18, 2018, I will need to take action to void your permit under the provision of Section 42-219(8) of the Idaho Code.

If you have any questions, please contact me at 208-287-4912. Thank you for your attention to this matter.

Respectfully,


Rachael Smith

Water Resource Agent Sr.
Rachael.Smith@idwr.idaho.gov

Enclosure(s): Receipt

1-26-18
YES --- THERE IS
A SCREEN ON INLET
W/ OPENINGS OF LESS THAN
1/4" MESH
DM Parker

PIN	Ngrhd	Owner1	PropStr	PropCity	PropZip	PropClsDescr	HouseType	TotFinArea	LglAcres	LglAddr
RP059610010320A	3311	PARKER, DOUGLAS M	277 PINTO PNT RD	COOLIN	83821	537-Resid improv on cat 15	18 1.5 Story	1688	0.85	27-61N-4W PINTO POINT BLK 1 LOT 32