

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

A. GENERAL INFORMATIONExam Date: 7/20/20231. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y ___ N

- a. X 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:

Owner of Record Correct? X Y ___ NAddress of Record Correct? X Y ___ N

If No Explain: Address on permit was 1527 East River Rd, Priest River, ID 83856 but has since been updated to the correct address: PO Box 1348, Priest River, ID 83856.

3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: N0435654. Source: Pend Oreille River Tributary: Columbia RiverMethod of Determination: GIS ArcMap Tools, Taxlot Data, Aerial ImageryChange in Source: ___ Y X N**B. OVERLAP REVIEW**1. Other water rights with the same place of use: X No Overlap

Water Right No.	Source	Purpose of Use	Basis
None			

Comments: N/A2. Other water rights with the same point of diversion: X No Overlap

Water Right No.	Source	Purpose of Use	Basis
None			

Comments: N/A**C. DIVERSION AND DELIVERY SYSTEM**

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
PEND OREILLE RIVER	1	SW	SW		36	56N	04W	B.M.	BONNER

Method of Determination: GIS ArcMap Tools, Taxlot Data, Aerial ImageryChange in POD? ___ Y X N Amendment Required? ___ Y X N

2. Place of Use:

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	04W	36											0.1						
		Lot #											1						
56N	04W	36											0.1						
		Lot #																	
Total Acres =																			0.2

Method of Determination: GIS ArcMap Tools, Bonner County Taxlot Data, Bonner County Mapping Tool, Aerial ImageryChange in POU? X Y N Amendment Required? Y X N

3. Diversion System Information:

Description:

 Delivery System Diagram Attached. (mark all major components and distances between components) X Aerial Photo Attached (required) Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
River Pump	N/A	0.5	N/A	N/A	N/A

*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
None						

2. Measurement Comments: No measurement is required as this license exam falls within the criteria for an in-house exam.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

$$Q = [(0.5 \text{ Hp})(8.8)(0.7 \text{ efficiency})] / [(30 \text{ lift in ft}) + (2.31)(45 \text{ pressure psi}) + (0 \text{ friction})] = 0.023 \text{ cfs}$$

$$Q = [(0.5 \text{ Hp})(8.8)(0.7 \text{ efficiency})] / [(30 \text{ lift in ft}) + (2.31)(50 \text{ pressure psi}) + (0 \text{ friction})] = 0.021 \text{ cfs}$$

$$Q = [(0.5 \text{ Hp})(8.8)(0.7 \text{ efficiency})] / [(30 \text{ lift in ft}) + (2.31)(55 \text{ pressure psi}) + (0 \text{ friction})] = 0.020 \text{ cfs}$$

Measurement = 0.02 cfs

Permit allowed = 0.01 cfs

Comments: The permit holder stated in email correspondence that the pump is 0.5 HP. Theoretical calculations suggest that a 0.5 HP pump at a location with approximately 30 ft in elevation gain (as is the case for this location) is capable of producing 0.02 cfs. For under 5.0 acres of irrigation, a duty of 0.03 cfs/acre is allowable. For the 0.2 acres of irrigation that has occurred under this permit, a duty of 0.03 cfs/acre corresponds to 0.006 cfs, rounded to 0.01 cfs. Thus it is reasonable to assume that the system in place is capable of producing the flow that will be authorized under this license. As it is clear that irrigation has occurred and that the source is the Pend Oreille River, review staff can assume that the system built is capable at operating at the standard rate for the number of acres irrigated.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: This water use is exempt from the volume reporting requirement under IDAPA 37.03.02 Rule 35.01.j.viii as the use is irrigation and the source is natural flow.

2. Volume Calculations for Other Uses: N/A

Comments: None

G. PURPOSE OF USE

Irrigation X Y N # Stock Domestic # of Homes

Other: N/A

Change in Purpose of Use? Y X N

Method of Determination: Aerial Imagery and Taxlot Data

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house exam because it is for less than 5.0 acres of irrigation. The exam was completed by Mackenzie Kienholz on 7/20/2023. This permit is in the name of Booth Trust; the statement of completion was signed by Ernie Booth, trustee. The land appurtenant to the POD and POU is owned by Booth Trust, Earnest D & Esther K Booth according to current Bonner County taxlot data. The address on the permit was 1527 East River Rd, Priest River, ID 83856, but has since been updated to the correct address of PO Box 1348, Priest River, ID 83856. No ownership change is necessary.

All of the conditions of the permit have been met. The permit holder noted on the statement of completion that a fish screen was installed. Conditions 004 and X31 from the permit will be carried over to the license. Condition 029 requiring the right holder to comply with all applicable requirements from IDFG will be dropped as the applicant noted on the statement of completion that a fish screen was required and installed. No additional conditions will be added to the license.

While the permit authorized the irrigation of 0.5 acres, at the inquiry of review staff the permit holder confirmed that only land within the 0.35-acre parcel was irrigated. Imagery from the Bonner County Parcel Map Tool showed that approximately 0.15 acres of the 0.35-acre parcel were irrigated. This will be rounded to 0.2 acres consistent with Application Processing Memo No. 6. The parcel location was projected incorrectly. The measurements for irrigated acres were taken from the adjusted parcel location as show in the images below. The proportionate rate for 0.2 acres at the maximum duty of 0.03 cfs/acre is 0.006 cfs. This will be rounded to 0.01 cfs consistent with Application Processing Memo No. 6. Therefore, I am recommending 0.2 acres and 0.01 cfs for this license.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS

1. Recommended Amounts:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	4/1 – 10/31	0.01 CFS	
<u>Totals:</u>		0.01 cfs	

2. Recommended Amendments:

 Change P.D. as reflected above Add P.D. as reflected above X None

 X Change P.U. as reflected above Add P.U. as reflected above None

Permit No: _____

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Other: N/A

J. AUTHENTICATION

Field Examiner's  Date _____

Reviewer  Date 04-09-2024

Imagery



Image 1. Aerial view of parcel.

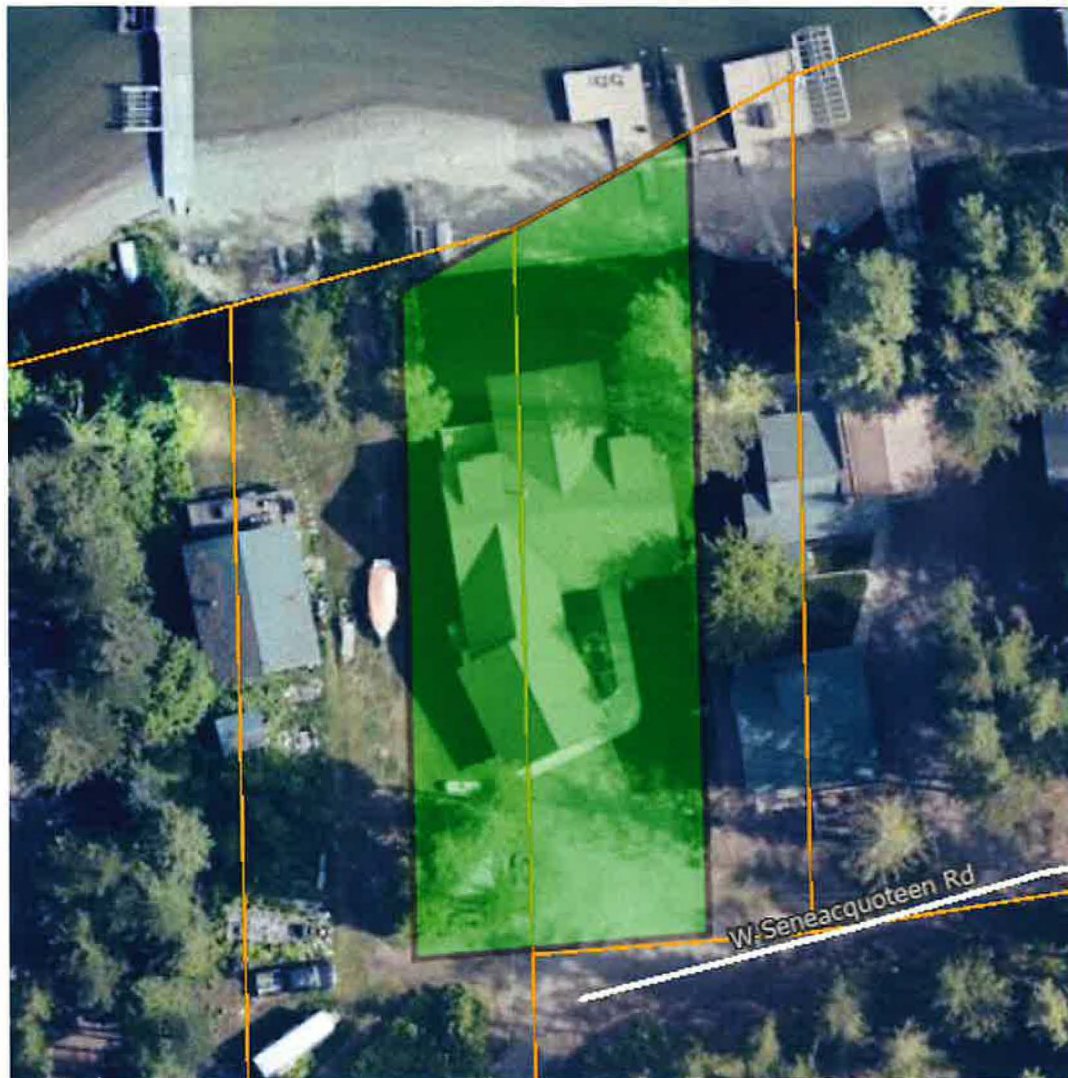


Image 2. Estimated corrected parcel boundary, confirmed by applicant, 0.35 acres.



Image 3. Irrigated acres shown in green, 0.2 acres (rounded).

MEMORANDUM

TO: water right 96-11051
FROM: Cody Parker
RE: field examiner recommendations
DATE: April 9, 2024

The field examiner reported no volume for the irrigation use under this permit because it is not required per the IDAPA Water Appropriation Rules. However, in lieu of standard duty of water conditions (i.e. condition R66 – *This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 3.0 afa per acre at the field headgate for irrigation of the place of use.*), the examiner recommends using X31, which defines a specific total and rate and volume for irrigation. X31 is typically used for water rights authorizing less than 1 acre of irrigation, so the recommendation is appropriate in this case. However, since a total volume is defined in the condition it is appropriate to add a total volume to the face of the license. I have made this change subsequent to the field examination.

Parker, Cody

From: Ernie & Esther Booth <eebooth54@gmail.com>
Sent: Wednesday, July 12, 2023 5:52 PM
To: Kienholz, Mackenzie
Subject: Re: Additional Information Request for Permit 96-11051

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

The lines are off quite a bit, but the green you painted is pretty close. There is a bed in the NW corner next to the boat that should be added. Also there is a bed in the SE corner that needs added. It follows the E line to the road almost to the corner.
In addition there are 4 pots on the deck that have a drip to them.
The pump is a 1/2 hp. Submersible. Don't know the make or serial number. There are 29-30 sprinkler heads for the grass and approximately 35 drip heads and small sprayers for the pots, beds and garden.
Hope this helps.
Ernie

Sent from my iPad

On Jul 12, 2023, at 8:15 AM, Kienholz, Mackenzie <Mackenzie.Kienholz@idwr.idaho.gov> wrote:

Good morning, Esther and Ernie Booth,

The Department received the Statement of Completion you submitted for permit #96-11051, and as I previously mentioned, I am reviewing the Statement of Completion through an in-office examination for licensing. In-office examination expedites the licensing process by using information and documentation submitted by the permit holder(s) and GIS images to process the examination without the need for a field examination to be scheduled and conducted later. The permit issued provided the scope for the development of future uses. The purpose of this examination is to document the use that has been developed.

After reviewing your Statement of Completion, I was able to identify approximately 0.2 acres of irrigated area within the place of use. I have attached two images, one with the irrigated area in green and the same image without the area outlined. The proposed irrigable area is a draft that will be made more concise once we have the information requested from you. I need to verify if the areas shaded in green on the image have all been irrigated, and if there are any additional areas that were irrigated that should be included. It appears that the parcel boundaries on the Bonner County Parcel Map are slightly off, so I want to ensure I am looking at the correct acres.

Additionally, if this acreage is correct and only 0.2 acres have been irrigated, there will be a reduction in the rate from 0.03 cfs to 0.01 cfs. As no pump details were provided, please also provide any pump

details you can (HP, make, model), especially the horsepower of the pump, so we can ensure that this lower rate will be sufficient.

Please respond to this email and let us know if the area of irrigation identified via aerial imagery is correct, or if it is not, please make any corrections and submit them to us.

Once we have your confirmation and clarification regarding the irrigated area, I will finalize the processing of your permit for licensing.

Feel free to reach out to me with any questions or concerns. Thank you for your time and attention to this matter.

Best regards,

Mackenzie Kienholz
Water Supply Bank Specialist

<image001.jpg>

Planning & Projects

Mackenzie.kienholz@idwr.idaho.gov

Phone: (208) 287-4822

<Booth Parcel Image 96-11051.JPG>

<Proposed Irrigated Acres - Booth 96-11051.JPG>

Parker, Cody

From: Ernie & Esther Booth <eebooth54@gmail.com>
Sent: Thursday, June 29, 2023 3:53 PM
To: Kienholz, Mackenzie
Subject: Re: Water Permit No. 96-11051

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

That is the correct parcel.
Ernie

Sent from my iPad

On Jun 29, 2023, at 10:32 AM, Kienholz, Mackenzie <Mackenzie.Kienholz@idwr.idaho.gov> wrote:

Hello Mr. Booth,

I am currently reviewing your statement of completion for Water Permit 96-11051. The application for permit, permit, and statement of completion all list 0.03 cfs and 0.5 acres. Bonner County parcel tax information show that the parcel that makes up the permit place of use is only 0.35 acres. Were there additional acres that have been irrigated, or is the irrigation limited to your parcel? I have included an image of the 0.35-acre parcel (which is the permit place of use) and the permit point of diversion below for your reference.

Additionally, if you have any information about the pump you are using, it would be helpful. Information such as horsepower, lift, pressure, model no./serial no., sprinkler type and number, and the location of pipe or sprinklers is always helpful, but if you do not have this information, it is alright.

Thank you,

Mackenzie Kienholz
Water Supply Bank Specialist

<image001.jpg>

Planning & Projects

Mackenzie.kienholz@idwr.idaho.gov

Phone: (208) 287-4822

<image002.png>