

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

A. GENERAL INFORMATIONPermit No: 91-8060Exam Date: 9/9/2022

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y ___ N
- 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: Trenton Parker
Owner of Record Correct? X Y ___ N
Address of Record Correct? Y ___ N
If No: Address

According to Tax data the property is owned by Trenton Brandi Parker. I don't see any issues with ownership

3. Beneficial Use Fees have been paid: X Y ___ N Receipt No: C113884

4. **SOURCE** TRIBUTARY
St Joe River Couer D Alene Lake

Method of Determination: GIS and Tax Data

Change in Source: ___ Y ___ X ___ N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
Various	Various	Municipal	Decree

Comments: The municipality of the City of St Maries has various water rights on the St Joe River. A portion of their service area lies within the permit place of use.

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: N/A

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

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
St Joe River	11		SE	NW	17	46N	01W	B.M.	Benewah
								B.M.	
								B.M.	

Method of Determination: GIS and Tax data.

Change in POD? ____X__N Amendment Required? ____X__N

2. PLACE OF USE: Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
46N	01W	17									D	D							
		Lot #								11	11								
Total Acres =																			

Method of Determination: GIS and Tax Data.

Change in POU? ____X__N Amendment Required? ____X__N

___ 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
Pump		0.75			

*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. Measurements: No measurement is required for an in-house exam, but a theoretical calculation was used to determine if the diversion rate is reasonable.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

A theoretical analysis shows that a diversion rate of 0.04 cfs is possible with a 0.75 Hp pump. I will recommend a diversion rate of 0.04 cfs, which is what was requested on their application for permit. I estimated a minimum of 10 feet of head for this system, since they are pumping from the river which can vary in elevation.

$$Q = [(0.75 \text{ Hp}) (8.8) (0.70)] / [10 \text{ ft lift} + (45 \text{ psi} \times 2.31)] = 0.04 \text{ cfs}$$

Measurement = 0.04 cfs

Permit allowed = 0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

This is a domestic use. According to processing memo #22, domestic use is allowed up to 0.6-acre feet per home. There are two RV units, so $0.6 \text{ af} \times 2 = 1.2$ for in house use. Under the same processing memo irrigation is limited to 0.6 af, so the irrigation use is limited to 0.6 af for a total when combined with the in-house use of 1.8 af. I am recommending 1.8 af for this permit.

G. PURPOSE OF USE

Irrigation X Y N # Stock _____ Domestic # of Homes 2

Other: < >

Change in Purpose of Use? Y X N

Method of Determination: Parcel records and conversation with owner. The permit is for two recreational vehicles, RV units, not two homes.

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

H. NARRATIVE/REMARKS/COMMENTS

This permit is qualified for an in-house exam. I did receive confirmation from the owner that the fish screen was installed, so it appears as though everything is in order. The owner confirmed the general description needed of the pump, horsepower, allowing a theoretical calculation. The pump would divert the flow rate stated in the permit. The permit allows for two recreational vehicles, RV units, on the place of use rather than homes. The standard rate stated 0.6-acre feet per home or RV unit and 0.6 af for irrigation for a domestic use when a water right has been filed. The service area of the municipal water rights of the City of St Maries does not appear to have any municipal system connection to this parcel. All the conditions have been met, and it is indicated by GIS data that the owners are using water for their uses listed on the permit. Therefore, I am recommending a diversion rate of 0.04 cfs and 1.8 af, which is the standard for this type of domestic use. GIS data shows recreational vehicles are present on the property.

Conditions 004, X04, 187, X15, X16, and 227 will be carried forward to licensing. No further conditions are needed.

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>
Domestic	01/01 to 12/31	0.04 CFS	1.8 AF
<u>Totals:</u>		0.04 CFS	1.8 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 ✓ None

Other: < >

J. AUTHENTICATION Skyler Cheever, Water Right Agent

Field Examiner's Name Skyler Cheever Date 9/9/2022

Reviewer P. Cheever Date 9/15/22

Field Exam Map:

The orange border shows the place of use, and the yellow point shows the point of diversion.

