

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17296
Exam Date: 05/16/2022

1. Current Owner:
LAWRENCE ESTATES 1477 S PLEASANT VIEW RD POST FALLS ID 83854-6955
2. Accompanied by: In house
Phone No:
Address:
Relationship to permit Holder:

3. **SOURCE:**
GROUND WATER

Method of Determination: ___ application and permit _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: ___ NA _____

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

Water Right No.	Source	Purpose of Use	Basis
95-11527	Groundwater	Domestic	

Comments: ___ water right 95-11527 is for one home same well _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L5 (NE¼ SE¼), Sec. 7, Twp 50N, Rge 05W, B.M. KOOTENAI County

Method of Determination: application, permit and proof

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	7													X L5		X	X	

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	7													X L5			X	

PLACE OF USE: FIRE PROTECTION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	05W	7													X L5		X	X	

Method of Determination: application and permit

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		5			

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Application Processing Memo 22 provides objects for 2 homes

F. VOLUME CALCULATIONS: 1.2 af per home for indoor and outdoor use up to ½ acre of irrigation per administrative processing memo #22. Stockwater volume for 15 head is 0.4 af per administrative application processing memo #3

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: Na

G. NARRATIVE/REMARKS/COMMENTS: ArcMap and Kootenai County show 3 three homes on 3 lots as the permit was issued for. Place of use is within Lawrence Estates. The theoretical done by Dan Nelson shows the diversion rate can be reduced to 0.11 cfs. The permit was issued for 0.17 cfs. The shape for water right 95-8859 is in the same QQ but not for the parcels in this license. Also, there is a shape for an irrigation right, 95-8970, but it was disallowed in the adjudication. Water right 95-11527 is a domestic right from the same well decreed in 2019 that is appurtenant to one of the homes on this permit. This license will be reduced to 2 homes. Place of use is for Lot 1, Block 1, Lot 2, Block 1 (there are two homes on this lot. One home is covered under 95-11527) and Lot 3 Block 1, Lawrence Estates. Removed conditions 26A and 046. I removed the SWSE in the domestic POU since there isn't a home there.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Rate of Volume</u>
STOCKWATER	01/01 to 12/31	0.02 CFS	0.4 af
DOMESTIC	01/01 to 12/31	0.05 CFS	2.4 af
FIRE PROTECTION	01/01 to 12/31	0.11 CFS	

Totals: 0.11 CFS 2.8 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

I. AUTHENTICATION

Jean Hersley -

Field Examiner's Name Jean Hersley Date 5-27-22

Reviewer PH Date 5/31/22

Hummer, Phill

From: Cammy Lawrence <lawrence.cammy@gmail.com>
Sent: Wednesday, May 18, 2022 8:30 AM
To: Hummer, Phill
Subject: Re: Water Right 95-17296
Attachments: 95-17296 copy Water Use.pdf

Hi Phill,

There is only one well in the area and all 3 houses use it. I've tried to mark the locations where ground water is used. Please let me know if you need additional information.

Thank you,
Cammy Lawrence

On May 17, 2022, at 8:12 AM, Hummer, Phill <Phill.Hummer@idwr.idaho.gov> wrote:

Hello,

I am working on reviewing the proof of beneficial use statement filed for permit no. 95-17296 with the intent of issuing a license for the use without conducting an in the field investigation of the water use. It would be hugely beneficial if you could provide some additional information. Attached to this email is a map showing the homes within the place of use of the permit. Please mark the locations where ground water is used for irrigation under the permit and the houses that are supplied in home water from the well.

From an initial review it looks like there are three houses in the area. However, domestic use from ground water in one of the homes is likely authorized under existing water right 95-11527. If that is the case and there are only three total homes, the domestic use on the license for permit no 95-17296 will likely only be for 2 homes. Based on the well construction report, there is just one well in the area. Please confirm all the houses use the same well.

Thank you in advance for providing the information needed to finalize this water right process.

-Phill
<95-17296.pdf>



The USGS FSA Aerial Photography Field Office asks to be credited in derived products.

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 95-17296
 Reviewer: Dan Nelson
 Date of Review: 5/16/2022

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)
 RATE OF FLOW (gpm)

Scenario #1
5
0
200
40
0.105
47

Scenario #2
5
0
200
50
0.098
44

Scenario #3
5
0
200
60
0.091
41

Maximum need Calculation
5
0
200
29
0.115
52

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:

The permit application states that a 5 Hp used for this system. The well driller's report states that the approximate drawdown of the well is 200 feet. Assuming a standard household pressure of 40 to 60 psi, this system could produce 0.09 cfs to 0.11 cfs.

the permit requests 0.08 cfs for domesti use and 0.02 cfs for stockwater and 0.17 cfs for fire prtotection. I would recommend a diversion rate of 0.11 cfs as it is the highest possible diversion rate for a domestic type system with this size of pump.



