

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

A. GENERAL INFORMATIONPermit No: 95-17267

Exam Date: 3/3/2022

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Michael and Cindy Knowles
- Owner of Record Correct? X Y N
- Address of Record Correct? Y N
- If No: Address

The Department's parcel data shows Michael W. Knowles as the owner of the property. Kootenai County parcel records also shows Michael Knowles as the owner of the property. Therefore, I don't see any issues with the ownership of this property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: ~~CH2022~~ 6112021

4. **SOURCE** TRIBUTARY
- Twin Lakes Rathdrum Creek
- Method of Determination: GIS and Tax Parcel 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 North Kootenai Water District Water Rights	Various Sources	Municipal	Decrees, Permits, and Licenses

Comments: The only significant overlapping water rights are the North Kootenai Water District municipal water rights. The municipal water rights supply the in-house use, but the owner stated that the cost of the municipal rights were too high to irrigate the property. There are a number of other water rights in the area, but they are for other properties on different tax parcels.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights or adjudication claims or recommendations in this 40 acre tract.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
River Pump			NE	NW	17	52N	4W	B.M.	Kootenai
								B.M.	
								B.M.	

Method of Determination: GIS, Well Driller's Report, and Tax Parcel Data.Change in POD? X N Amendment Required? X N**2. PLACE 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	
52N	4W	17					1.1			0.1									1.2
52N	4W	17					0.2			0.6									0.8
							Lt 1			Lt. 2									
Total Acres =																			2.0

Method of Determination: GIS and Tax Parcel DataChange 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.

 X 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
Well Pump	Unknown				

*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.

E. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

There was no information submitted with the application for permit to determine the size of the pump in this system. Therefore, I am required to fall back on the standard for domestic use set forth by Administrative Processing Memo #17 for the irrigation of small acreages.

Administrative Memo #17 = 2 acres X 0.03 cfs/acre = 0.06 cfs

Permit allowed = 0.06 cfs

I am recommending 0.06 cfs as the diversion rate for the licensing of this permit.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{2 \text{ acres} \times 3 \text{ acre-feet per acre} = 6.0 \text{ acre-feet}}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{0.06 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 29.3 \text{ acre-feet}}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{6.0 \text{ acre-feet}}$

2. Volume Calculations for Other Uses:

N/A

G. PURPOSE OF USE

Irrigation X Y ___ N # Stock ___ Domestic # of Homes ___

Other: < >

Change in Purpose of Use? ___ Y ___ N

Method of Determination: Taxlot data and conversations with owner.

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

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. The irrigation is difficult to see, but it shows up well in the 2021 ESRI imagery. The water is being diverted from a small channel at the southeastern side of Twin Lakes, but is clearly upstream of the diversion structure of this channel. The point of diversion is very close to the lake itself. The river channel from the lake leaves the lake on the southwestern side of the lake, so it is really lake water being diverted.

The owner states in the application for permit that the costs of the municipal rights to irrigate this property are prohibitive. They plan to use this permit for irrigation of the property instead of the municipal rights supplying the in-house use. The municipal water can still be used for irrigation of this property, but there shouldn't be any combined limitations. The municipal use will be used as a supplemental use if any use at all. It doesn't appear that this property was being irrigated prior to the filing of this permit.

This permit has fish screen condition X15. The permit holder stated in the Statement of Completion for Submitting Proof of Beneficial Use that a fish screen was not required and was not installed. This is incorrect. I emailed the permit holder on March 3, 2022, to determine if a fish screen has been installed. On March 4, 2022, the permit holder sent an email stating that a fish screen has been installed and provided a diagram showing the fish screen. Therefore, we can move forward with licensing.

Conditions 004, R05, X15, R66, and X60 will be carried forward to licensing. No additional condition will be 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>
Irrigation	03/01 to 11/15	0.06 CFS	6.0 AFA
	<u>Totals:</u>	0.06 CFS	6.0 AFA

2. Recommended Amendments

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

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

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name



Date

3-4-2022

Reviewer

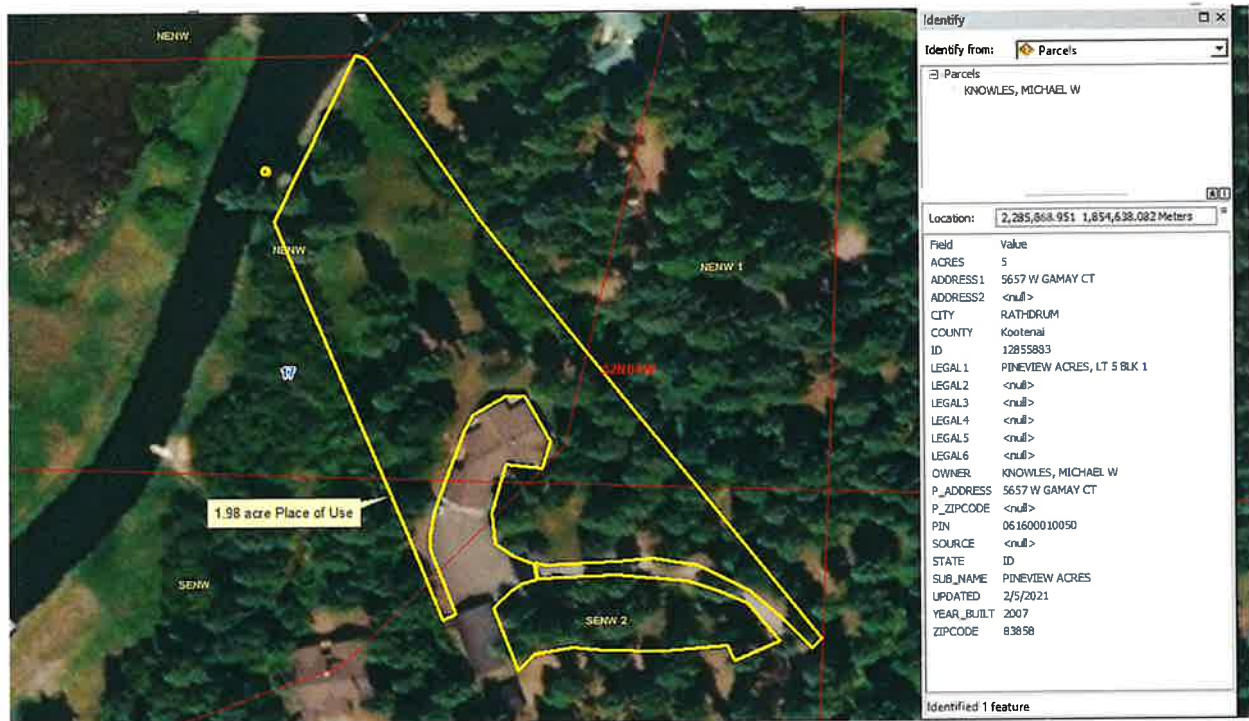


Date

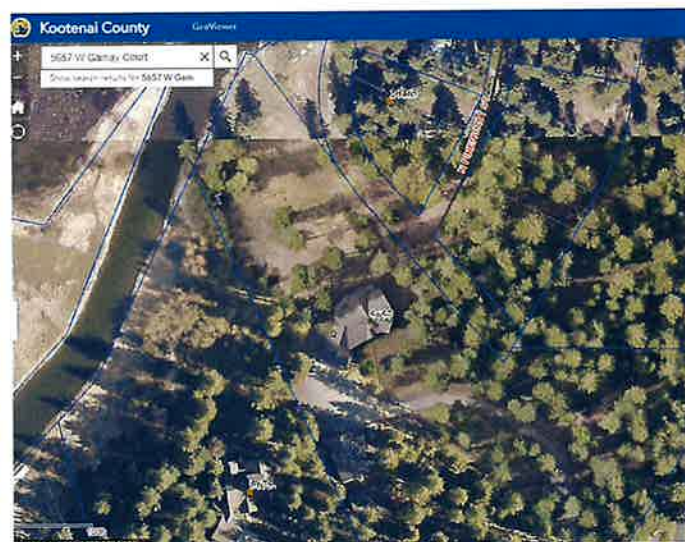
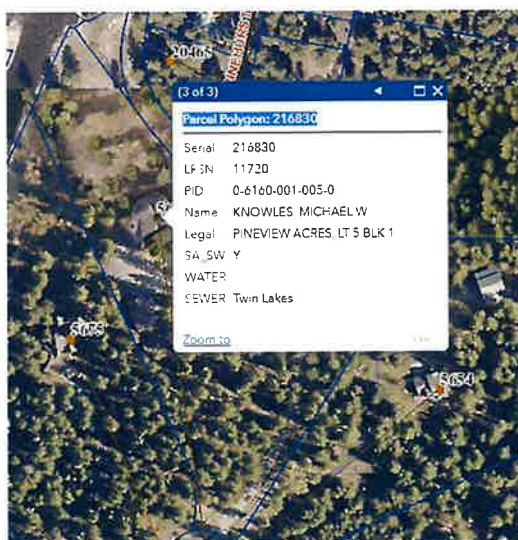
3/10/22

Field Exam Map:

The yellow border shows the place of use and the yellow point shows the point of diversion. The 40-acre tract lines and Government Lot lines are shown in red below. You will notice that the place of use goes into Government Lots 1 (NENW), Government Lot 2 (SENW), NENW, and SENW. The permit listed the NENW and Government Lot 1 (SENW) but didn't list Government Lot 2 (NENW) or the SENW. The applicant's map does show the place of use going into the Government Lot 2 (NENW) but doesn't show the place of use going into the SENW. After discussing this with staff, it was determined that an amendment is not needed, since this is just a clarification of the applicant's original mapping.



Bonner County Tax Maps



Nelson, Dan

From: Nelson, Dan
Sent: Friday, March 04, 2022 8:28 AM
To: Mike Knowles
Subject: RE: Water Right Permit 95-17267

Thank you, Mr. Knowles. That is exactly what I needed. I will move your permit forward to licensing as soon as possible.

Respectfully,

Daniel Nelson
Water Right Analyst 3
Idaho Department of Water Resources
Telephone (208) 287-4856
Fax (208) 287-6700 (attn: Dan Nelson)

From: Mike Knowles <twinlakes.knowles@gmail.com>
Sent: Friday, March 04, 2022 7:52 AM
To: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>
Subject: Re: Water Right Permit 95-17267

Danial:

I installed the attached foot valve with a screen that is less than 1/4 mesh.

Thanks
Michael Knowles

On Thu, Mar 3, 2022 at 10:43 AM Nelson, Dan <Dan.Nelson@idwr.idaho.gov> wrote:

Dear Mr. and Ms. Knowles,

I have been asked to review your water right file for permit 95-17267 for license purposes. On smaller permits such as yours, we can generally verify the water use for licensing purpose by using aerial photography and various state and county records without setting a time with you to do an onsite verification. We refer to these reviews of smaller permits as in-house exams or desk top reviews. Performing these in-house exams avoids the time and costs to the Idaho Department of Water Resources (Department) and yourself from having to meet at the site to verify the water use. If you would prefer to have someone from our Northern Region office set up a time with you to come to the property and verify these issues, I can have someone from that office make an appointment with you to visit the property. Due to a backlog of water rights needing onsite verifications, it may be some time before our Northern Region staff will be able to set up appointments in your area.

During my review, I have been able to determine most of the elements needed to license your permit. There is one issue that needs to be addressed. Your permit has the following condition:

A fish screen of 1/4 inch or smaller mesh shall be installed and maintained at the point of diversion.

On your "Statement of Completion for Submitting Proof of Beneficial Use" form you stated that you had not installed a fish screen. Most lake pumps have a screen on the intake also referred to as a trash screen. We need confirmation that you have a screen installed prior to licensing this permit. **This confirmation can come in the form of a response to this email from you saying that you have installed the screen.**

As I stated above, you can request an agent from the Department to visit your property to verify these issues if you wish. You or a representative will need to be present during that inspection to show them your system. Please provide the requested information or inform me that you would rather have Department staff visit your property to verify the above issues by April 4, 2022. If I do not receive the requested information or I have not been contacted by you to request an onsite field verification by April 4, 2022, 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 don't hesitate to contact me. I would be more than happy to discuss the above requests.

Respectfully,

Daniel Nelson

Water Right Analyst 3

Idaho Department of Water Resources

Telephone (208) 287-4856

Fax (208) 287-6700 (attn: Dan Nelson)

Foot Valve

Model 60SE

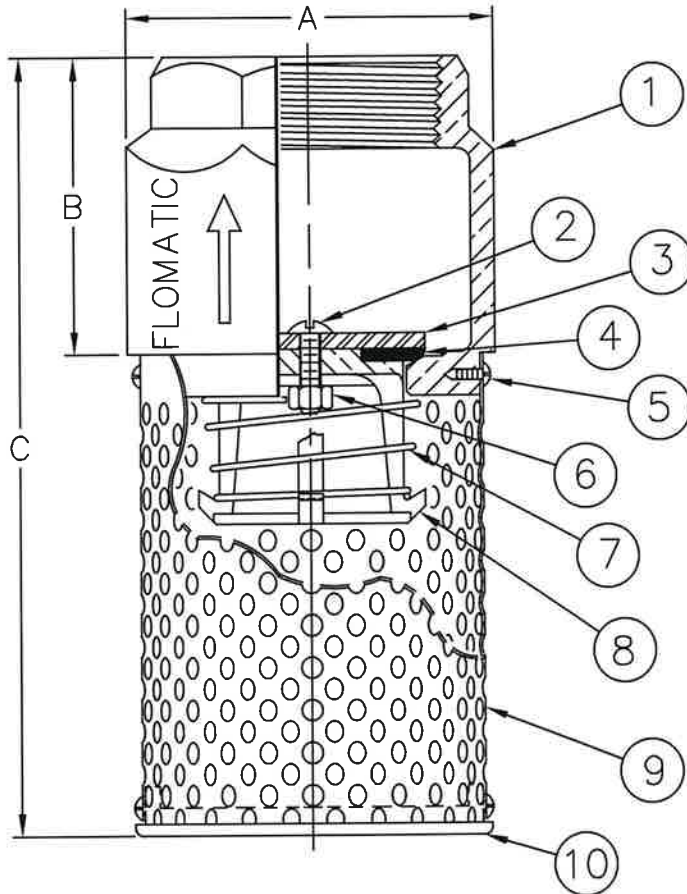
FLOMATIC®

Flomatic Corporation

Sizes 2-1/2" Thru 4" / 65 mm Thru 100 mm

Material

Enviro Check®



FLOW ↑



Max Temp 180°F (82°C)
Max Pressure 250psi (18bar)

Item #	Qty	Description	Material	ASTM	Item #	Qty	Description	Material	ASTM
1	1	Body	Unleaded Bronze	C89833	6	1	Jam Nut	Stainless Steel	304
2	1	Screw	Stainless Steel	18-8	7	1	Spring	Stainless Steel	302
3	1	Flat Washer	Stainless Steel	304	8	1	Guide*	Unleaded Bronze	C89833
4	1	Disc	Buna	N-5007	9	1	Screen	Stainless Steel	304
5	A/R	Screw	Stainless Steel	316	10	1	Cap	Unleaded Bronze	C89833

* Guide for the 4" is 316 Stainless Steel

Dimensions (FNPT)

Size		Part #	A		B		C		Weight	
inch	mm		inch	mm	inch	mm	inch	mm	lbs	kg
2-1/2	65	4106E	3-21/32	93	2-59/64	74	8-1/16	205	6	2.8
3	80	4107E	4-9/16	116	3-13/32	97	9-9/16	243	11	5
4	100	4108E	6-1/8	156	4-1/4	108	12-13/32	315	19	8.6

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FLOMATIC® VALVES

February 28, 2005
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