

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

A. GENERAL INFORMATION

Permit No: 96-13549

Exam Date: 06/18/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- N/A Irrigation of 5 acres or less
 - N/A Storage of up to 14.6 AF for stockwater purposes only
 - X Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
 - N/A Other < >
2. Current Owner: THOMAS COMETTO AND/OR LORI COMETTO
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Bonner County Tax Parcel information shows Thomas W & Lori M Cometto as the current owners of tax parcel RP59N01E244251A. The Permit Holders included copies of warrant deed(s) and quit claim deed(s) with their statement of completion submission that demonstrate recorded easements are in place for access to the POD located on Idaho Panhandle Nat Forest land. I don't see any issues with the ownership of this permit or proposed license.
3. Beneficial Use Fees have been paid: X Y N Receipt No: C117714.
4. **SOURCE:** South Fork Grouse Creek **TRIBUTARY:** Grouse Creek

Method of Determination: ArcMap 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
96-14203	Groundwater	Domestic	Notice of Beneficial Use Claim filed in CFPRBA

Comments: The applicants have filed a Notice of Claim No. 96-14203 in the ongoing Clark Fork Pend Oreille River Basin Adjudication (CFPRBA) process for a groundwater source system used for domestic use which is appurtenant to the parcel and home covered by this Permit. I have recommended license approval for the permit with a text condition incorporating script from conditions 928 & X35 which describe that if the claim is decreed as claimed, rights 96-13549 and 96-14203 when combined shall not exceed domestic water use for 1 home with ½ acre irrigation.

There are additional active permits for surface water use associated with the Permit Holder's parcel that have overlapping POU's, but they haven't been validated yet by beneficial use exam. Any overlap concerns between WRs shall be evaluated at time of licensing for any future WR Permit.

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

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
SOUTH FORK GROUSE CREEK			SW	NE	24	59N	01E	B.M.	BONNER

Method of Determination: ArcMap aerial imagery.

Change in POD? ___Y ___X___N Amendment Required? ___Y ___X___N

Place of 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	
59N	01E	24			X														

Method of Determination: GIS and Tax Parcel Data.

Change in POU? ___X___N Amendment Required? ___X___N

3. Diversion System Information:

Description: pre-existing creek water diversion system 2-inch gravity flow pipeline to home for domestic water use.

___ 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 Model No.	Pump Make	Pump Serial No. or Discharge Size
Intake Pipe in Creek	N/A	N/A	N/A	N/A	Gravity flow 2-inch PVC pipeline from POD to POU

D. FLOW MEASUREMENTS

1. Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurement Comments: No measurement required for an in-office exam.

E. FLOW CALCULATIONS

Domestic:

- Measurement = 1 home authorized a diversion rate of 0.04 cfs based on Administrator's Memorandum, Application Processing No. 22: Definition of "Domestic".
- Permit allowed = **0.04 cfs**

Comments:

Permit Holders have supplied two photographs of the diverting works in the creek, which uses gravity flow in a 2-inch PVC pipeline conveyance system to the POU for domestic use. Theoretically, a Manning Equation was developed using the following constraints:

- POD elevation = 3129 ft (Google Earth data)
- POU elevation at residence = 3071 (Google Earth data)
- 2-inch PVC pipe with approximately 1,150 ft run (straight line measured in ArcMap)
- Inputted values equal 58 ft Rise, 1,150 ft Run, Slope = 0.0504 ft/ft, and flow rate = Q = 0.10 cfs

I've added the theoretic manning equation as an attachment to the BU report, but this equation is speculative without concrete values to plumb into the equation. The theoretic equation illustrates the Permit Holder's diverting works & conveyance system is capable of producing 0.04 cfs which I'm recommending for licensing purposes.

F. VOLUME CALCULATIONS

2. Volume Calculations for Other Uses: Maximum Diversion Volume equals **1.2 af** for 1 home with up to ½ acre irrigation covered under domestic use.

G. PURPOSE OF USE

Irrigation N/A N # Stock N/A Domestic # of Homes: 1

Other: < N/A >

Change in Purpose of Use? X N

Method of Determination: Bonner County tax lot data, information assessed on the Statement of Completion form, and email correspondence received from the Permit Holder.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. Overlapping water right concerns have been evaluated and I've recommended addition of a text condition describing combined use between WRs in order to mitigate overlap concerns. I used ArcMap to assign the South Fork Grouse Creek POD using the Permit centroid. The diversion rate of **0.04 cfs** is recommended for licensing.

The applicants' parcel shows a year-built date of 1987 according to Bonner Co. tax parcel data and ArcMap imagery year 2023 along with Bonner Co. GIS tax parcel maps clearly illustrate the home. I requested additional information via email correspondence dated 6/12/2024 (attached). Lori Cometto responded via email on 6/14/2024 providing answers to questions regarding their domestic water system that have provided adequate information to recommend for licensing.

I used aerial imagery, Google Earth software, and Bonner County GIS tax parcel maps as I designated the domestic POU using ArcMap software. I've assigned the domestic POU as a 0.8 ac rectangle shape centered on the 1 home, which provides acreage for the home footprint and the authorized 1/2 acre irrigation covered by domestic. The Right Holder isn't able to irrigate the entire 10-acre parcel under 96-13549. I've assigned a maximum diversion volume of **1.2 af** for 1 home with 1/2 acre irrigation included toward licensing this Permit.

The permit holder asserts by declaration in step No. 6 on the Statement of Completion form that a fish was not installed. The Department hasn't received any comment from IDFG that a fish screen is required & I've removed condition 029 as there wasn't any formal screen requirement received from IDFG. I've added the combined use 'text' condition described above to mitigate overlapping water right concerns toward licensing this Permit. All other conditions shall be carried to license approval.

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>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF

Totals: 0.04 CFS 1.2 AF

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: < N/A >

J. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's  Date 6/18/2024

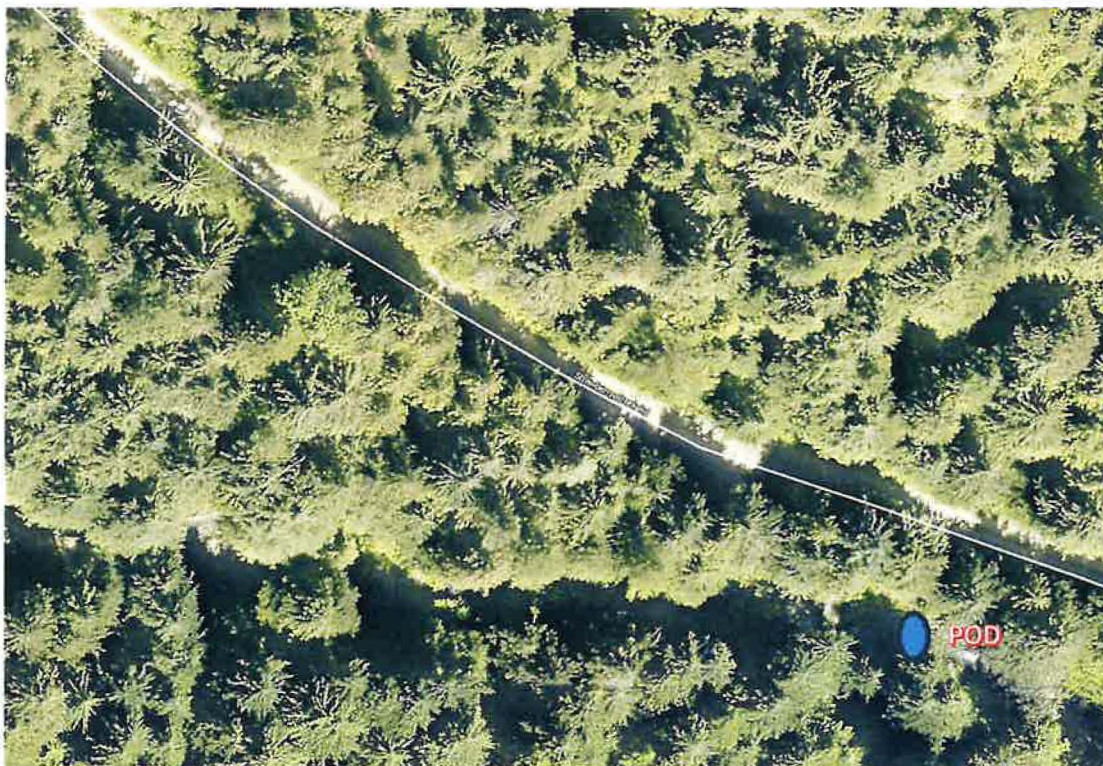
Reviewer  Date 6/26/2024

Field Exam Map(s): 430 Strawberry Creek Rd, Sandpoint ID 83864.

Bonner County Tax Parcel map retrieved from www.bonnercountyid.gov on 6/18/2024

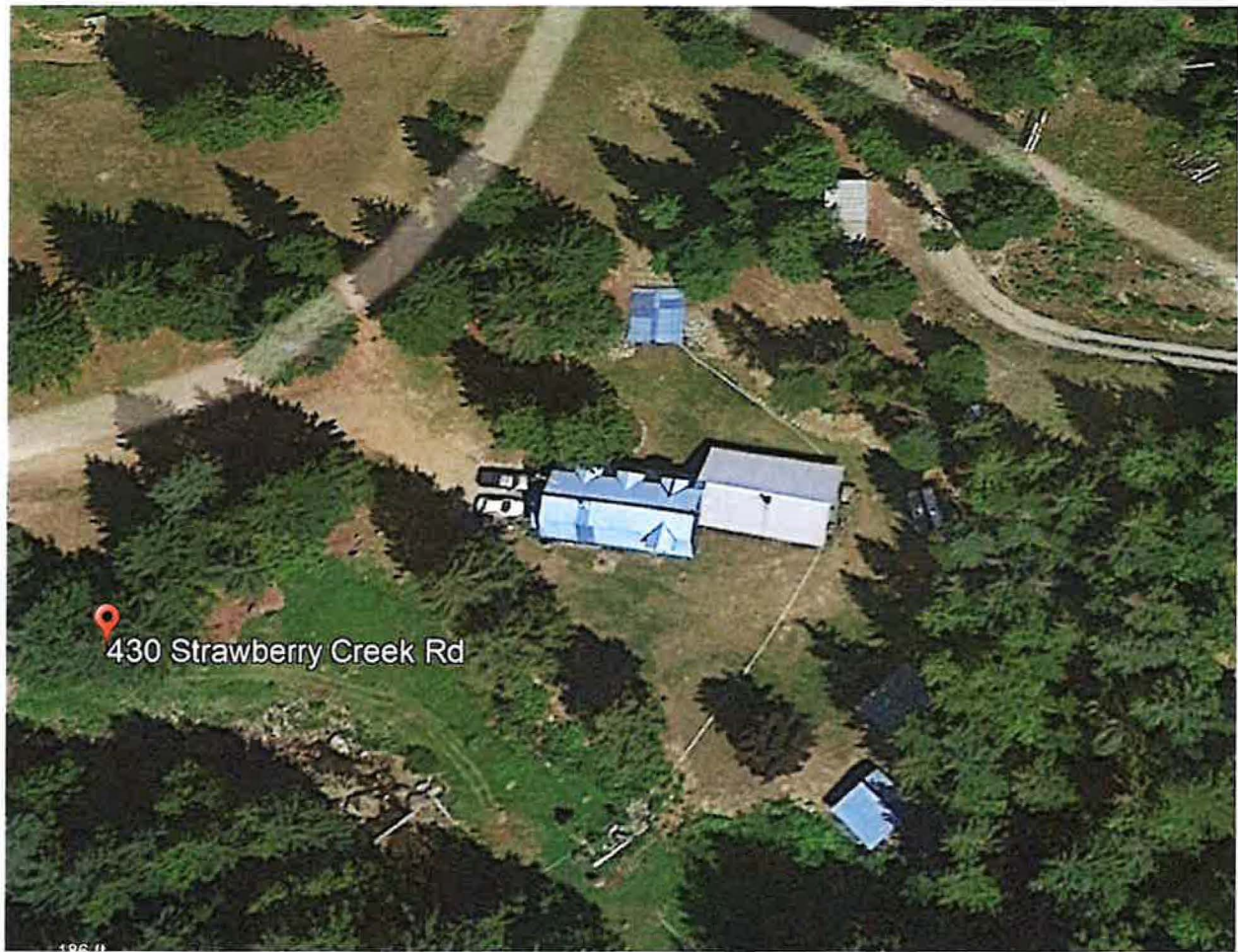


PORTION OF Tax Parcel No. RP59N01E244251A



PART OF Tax Parcel No. RP59N01E24001A – IDAHO PANHANDLE NATIONAL FOREST

8/4/2019 imagery date - Google Earth imagery of parcel



Imagery retrieved on 6/18/2024

96-13549

THEORETIC MANNING EQUATION – DIVERSION RATE ESTIMATED

Manning's Equation Calculator for Flow Rate in a Circular Conduit Flowing Full

$S = 0.0504$ ft/ft

$n = 0.009$ manning's coefficient

$d = 2.0$ pipe diameter (inches)

$D = 0.17$ pipe diameter (feet)

$r = 0.08$ pipe radius (feet)

$A = 0.02$ area (ft²)

$WP = 0.52$ wetted perimeter (ft)

$R = 0.04$ hydraulic radius (ft)

$Q = 0.10$ flow rate (CFS)

Channel Slope

Slope Options

☐ Manual Entry ☒ Slope Calculator

Slope Calculator

Rise = 58 feet

Run = 1150 feet

Slope, $S = 0.0504$ ft/ft

Pipe Material, (n):

plastic (pvc, abs)

Pipe Diameter (inches)

2.0 inches

Bates, Luke

From: Lori Cometto <lmcometto@hotmail.com>
Sent: Friday, June 14, 2024 3:29 PM
To: Bates, Luke
Subject: Re: IDWR water permit 96-13549

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.

Hello Luke - TGIF 😊

Here you go:

1. Is the pipeline detailed in your attached photographs gravity flow or do you use a pump? If pumping, do you have the pump specifications (hp)? [GRAVITY FLOW](#)
2. What size pipeline are you using to convey water from the Point of Diversion to your residence? [2"](#)
3. How does water from this system interact with the groundwater well used for domestic purposes on your property (notice of claim filed 96-14203 from groundwater well)? [SEPARATE SYSTEMS](#)
4. Do you irrigate from the water system diverting off the USFS parcel or is the water solely used for in-home domestic use? [DOMESTIC & ½ ACRE IRRIGATION](#)

Have a great weekend!

Lori Cometto

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From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Wednesday, June 12, 2024 2:45 PM
To: lmcometto@hotmail.com <lmcometto@hotmail.com>
Subject: IDWR water permit 96-13549

Lori & Thomas Cometto,
Good afternoon. I've been tasked with licensing review for Permit 96-13549, which authorized development of South Fork Grouse Creek water for Domestic use 1 home with up to ½ acre irrigation. I note your Statement of Completion was received by the Department on 2/1/2024.

The next step is a beneficial use field examination, which I plan to attempt accomplishing via an In-Office exam process. To expedite finalizing this permit for license approval I'm requesting additional water system information related to the S.F. Grouse Creek Diversion system:

5. Is the pipeline detailed in your attached photographs gravity flow or do you use a pump? If pumping, do you have the pump specifications (hp)?
6. What size pipeline are you using to convey water from the Point of Diversion to your residence?
7. How does water from this system interact with the groundwater well used for domestic purposes on your property (notice of claim filed 96-14203 from groundwater well)?
8. Do you irrigate from the water system diverting off the USFS parcel or is the water solely used for in-home domestic use?

Thank you in advance for submitting the two pictures related to the water system, they are helpful.

Please do respond to this email within 7 days, NLT 6/19/2024, as I work to finalize it for license approval. If I'm unable to obtain adequate information I may need to complete a site visit to complete the field examination process.

Thank you both,

Luke Bates

Sr. Water Resource Agent

Northern Region

P: 208-762-2817



IDAHO DEPARTMENT OF
WATER RESOURCES

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