

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

A. GENERAL INFORMATIONExam Date: 06/26/20241. 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. X Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 d. Other < >

2. Current Owner: **GIRL SCOUTS OF EASTERN WASHINGTON & NORTHERN IDAHO**Owner of Record Correct? NAddress of Record Correct? N

If No Explain:

3. Beneficial Use Fees have been paid: X Y N Receipt No: N044558

4. Source: Tributary:

Groundwater**N/A**

Method of Determination: Tax lot Data, GIS, and Well Drillers Report

Change 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
95-15559	Coeur D' Alene Lake	Irrigation	Decreed
95-8152	Coeur D' Alene Lake	Domestic	License

Comments: Rights 95-15559 and 95-8152 have place of use (POU) shapefiles which overlap the permit place of use (POU). However, both overlapping POUs have a different source than the permit, and although 95-8152 has the same beneficial use as the permit the backfile contains a map locating the domestic POU to the southeast of the lake. There are no concerns regarding the permitted use impacting existing rights.

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

Water Right No.	Source	Purpose of Use	Basis
NONE	NA	NA	NA

Comments: There are no rights sharing the permit point of diversion (POD).**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
Groundwater			NE	SW	25	48N	05W	B.M.	Kootenai
NOT DEVELOPED	3		NW	SE	25	48N	05W	B.M.	Kootenai

Method of Determination: GIS and Taxlot data.Change in POD? Y X N Amendment Required? Y X N

2. 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	
48N	05W	25									D		D	D		D	D		
		Lot #											4	5		3	3		

Method of Determination:

Change in POU? Y X N Amendment Required? Y X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable:

 X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater. X Aerial Photo Attached (required for irrigation of 10+ acres). Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump house/well	Unknown	3 Hp	Unknown	Unknown	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	NA	NA	NA	NA	NA	NA

2. Measurement Comments: The permit holder provided that the pump used in the system is 3 Hp. No measurement is required for an in-house exam, but a theoretical calculation and the system details provided by the permit holder were used to determine a reasonable diversion rate.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method:

$$Q = (3.0 \text{ Hp})(8.8)(.80 \text{ efficiency}) / (232 \text{ lift in ft}) + (2.31) * (40 \text{ pressure psi}) = 0.07 \text{ cfs}$$

Description submitted with application stated the well produces 11GPM, or about 0.03cfs.

Theoretical Calculation= 0.07cfs

Permit allowed = 0.20cfs**BU System limit Recommendation= 0.03cfs**

Comments: Based on the numerous facilities and 20,000-Gal storage tank providing for up to 200 individuals during peak use the output of the system would far exceed the actual diversion rate the well is capable of. I received documentation from the permit holder supporting 8 facilities for water use at the permit POU. The description of the system developed submitted with application stated the well produced 18GPM when drilled, but was actively producing closer to 11GPM, or about 0.03cfs. The well output since development has been capable of filling the 20,000-Gal storage tank within 24Hrs.

I was able to confirm via GIS and Kootenai County GIS imagery 8 domestic structures within the POU. I am recommending a total diversion rate of 0.03cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

NA

2. **Domestic Annual Volume Calculations:**

The usage described by the permit holder has a peak season from June to September and shoulder seasons in May and October, as described below:

May- 50 campers and staff x 60-gal/day ea. x 2 days a week x 4 weeks = 24,000-Gal

June to September- 150-200 campers and staff x 60-Gal/day ea. x 6 days a week x 16 weeks = 1,152,000-Gal Max

October- 200 Campers and staff x 60-gal/day ea. x 2 days a week x 4 weeks = 96,000-Gal

Total Yearly Use- 1,272,000-Gal yr / 325,850 (Gal/AF) = **3.9 AF annually**

Comments: The list of onsite facilities and services available within the camp (figure 2) seems capable of supporting the usage stated by the permit holder. The Field Examiners Handbook "Rural and Domestic Water Uses" states that for a rural residence each person uses 60-Gal daily for all purposes. A calculation quantifying the daily use for campers and staff based on the maximum usage observed throughout any given year by the permit holder during the development period provides a reasonable annual volume for the permitted usage. I recommend the license be issued with an annual volume of 3.7 AF for domestic uses within the camp.

G. PURPOSE OF USE

Irrigation X Y N # Stock Domestic # of Homes 1 Lodge, 1 Ranger House, 7 Biffys/Shower houses
Change in Purpose of Use? Y X N

H. NARRATIVE/REMARKS/COMMENTS

This permit for domestic use at 1 lodge, 1 Ranger House, and 7 Bivy/Shower Houses qualifies for an in-office examination. I called the permit holder on May 6, 2024, and requested that he send a system diagram including the locations of the lodge, campsites, any other water use facilities, and description of the system with photos. The permit holder submitted the requested information by email on June 25, 2024.

The facilities include a 2-story lodge with a full commercial kitchen, laundry facilities and multi-stall public restrooms, the ranger house, 6 multi-stall bathrooms and 2 shower houses (figures 1 & 2). The representative, Zane Steininger II, emailed describing the seasonal usage as 50 people 2 days a week in May, 150-200 campers and staff 6 days a week for the months of June through September, and about 200 campers and staff 2 days a week through October. In section F of this report a volume was calculated based on the standard daily use for rural residence occupancy, as per the Field Examiners Handbook reference, "Rural and Domestic Water Uses" table.

The permit holder provided a written description of the site history and use developed with the application documentation. Two points of groundwater diversion were cited in the application and permit. However, the plans and system details received from the permit holder only identified one well, which is located west of the roadway as described in the application documentation. Phone conversation with Zane Steininger II confirmed that only one well was ever developed. The only other water source at the camp is a lake diversion for irrigation purposes, as described by right 95-15559 (owned by the permit holder). The permit POU included area in the NESE. However, the NESE quarter/quarter is not included in the documentation submitted by the permit holder and appears to have been an error carried over from the original application for permit. The actual area developed does not include any part of the NESE quarter/quarter. I recommend removing the NESE quarter/quarter for licensing.

I recommend the license be issued for a rate of 0.03cfs, an annual volume of 3.9 AF, and with conditions WB5 and 004. Conditions 26A and 046 were removed at licensing as the development of the permitted use is complete.

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	0.03cfs	3.9 AF
	<u>Totals:</u>	0.03cfs	3.9 AF

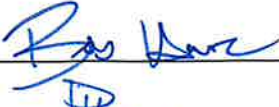
2. Recommended Amendments:

 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: < >

J. AUTHENTICATION- Water Resource Agent- Bob Howe

Field Examiner's  Date 8/2/24

Reviewer  Date 8/6/24

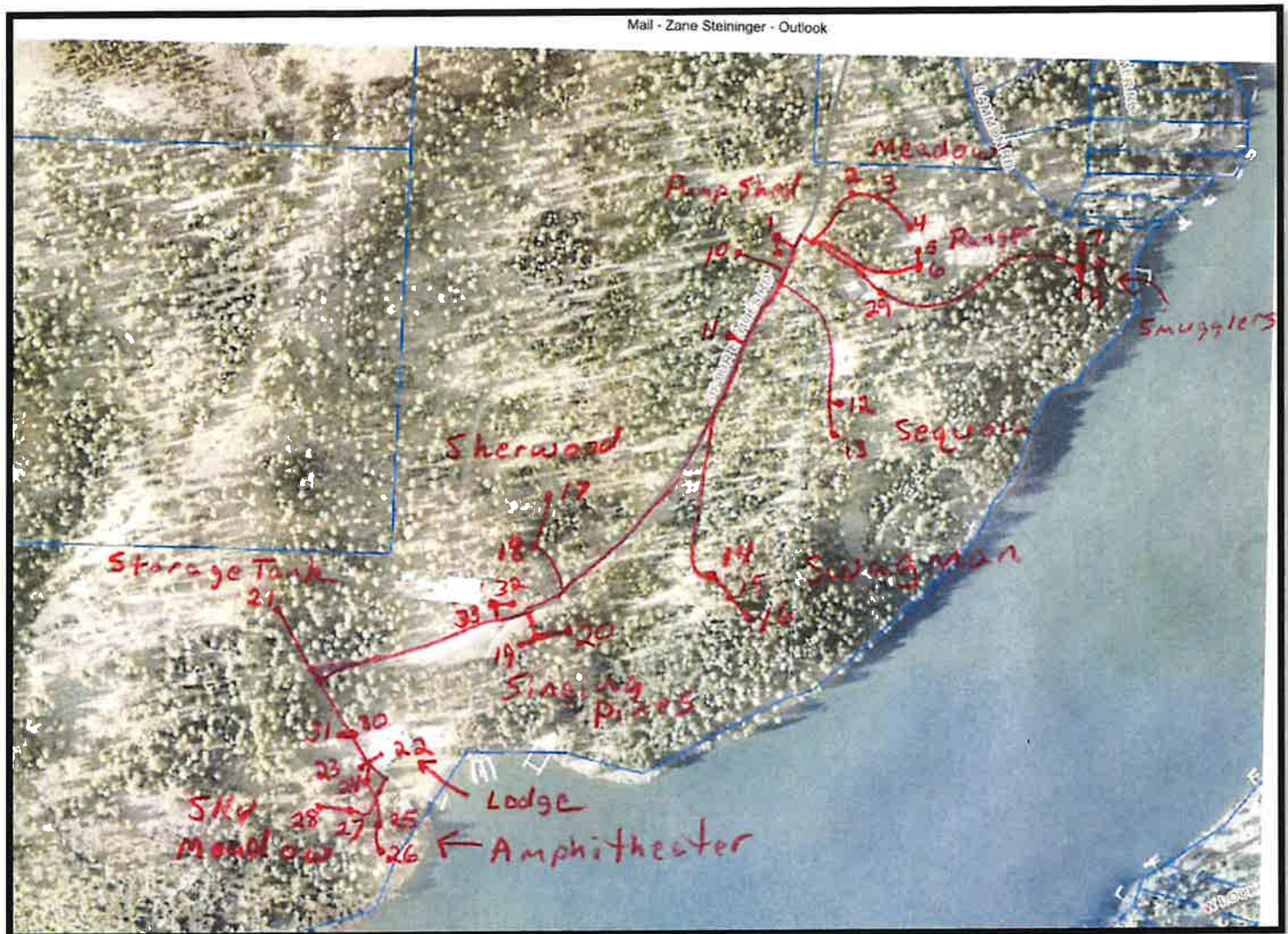


Figure 1- Kootenai County GIS image submitted by permit holder with system diagram. Red line indicates a pipeline and numbers are assigned to each location serviced.

CFE Water System Inventory

1. Pump house and well
 - a. Chlorine injection pump
 - b. Hose bib
 - c. Pre-chlorine sample hose bib
2. Frost free spigot for meadow
3. Meadow biffy 2 sinks, 3 toilets, 1 hose bib
4. Old camper parking (not in use) 2 frost free spigots
5. Frost free spigot and fire stand
6. Ranger house
 - a. 4 sinks
 - b. 2 toilets
 - c. 1 bath/shower
 - d. 1 dishwasher
 - e. 1 clothes washing machine
 - f. 1 hose bib
 - g. 1 water heater
7. Smugglers camp site frost free spigot (not working)
8. Smugglers biffy 2 sinks, 3 toilets, 1 hose bib
9. Smugglers hose bib stand
10. Frost free spigot for archery field (discontinued, not in use)
11. Shut-off valve for future site
12. Sequoia biffy 3 sinks, 3 toilets, 2 hose bibs
13. Sequoia frost free spigot with hose bibs
14. Swagman biffy 2 sinks, 3 toilets, 1 water heater
15. Swagman frost free spigot
16. Swagman frost free spigot with hose bibs
17. Sherwood biffy 2 sinks, 3 toilets, 1 hose bib
18. Frost free spigot
19. Singing pines frost free with hose bibs
20. Singing pines shower house
 - a. 11 showers
 - b. 3 sinks
 - c. 4 toilets
 - d. 2 hose bibs
 - e. 2 clothes washing machines
 - f. 2 water heaters
21. Storage tank 20,000 gallon
22. Lodge upstairs
 - a. Kitchen
 1. 1 food prep sink
 2. 2 hand washing sinks
 3. 3 dishwashing sinks
 4. Commercial dishwasher
 - b. Staff kitchen (lodge upstairs)
 1. 1 sink
 2. Residential dishwasher
 - c. Main area (lodge upstairs)
 1. 4 bathroom sinks
 2. 6 toilets
 3. Water bottle filler
 4. 2 water fountains
 5. Glass-fill spigot
 6. Prep sink
 - d. Lodge downstairs
 1. 9 bathroom sinks
 2. 4 sinks
 3. 10 toilets
 4. 1 urinal
 5. 3 showers
 6. Mop sink
 7. 2 clothes washing machines
 8. 2 exterior hose bibs
 9. Double fire hose connection (exterior)
 - e. Lodge mechanical
 1. 7 water source heat pumps
 2. 1 commercial water heater
 3. 2 hot water storage tanks
 4. In-floor heating downstairs only
 5. Water cooled cooling tower for water source heat pumps
 6. Automatic water supply make-up for cooling tower/heatpumps
23. Brown shower house
 - a. 6 sinks
 - b. 6 toilets
 - c. 6 showers
 - d. Water heater
24. Frost free spigot (feeds amphitheater)
25. Hose bib
26. Amphitheater
 - a. Hose bib
 - b. In ground irrigation (roughly 2000 sqft)
27. Sky Meadow Frost free spigot
28. Sky Meadow biffy 2 sinks, 3 toilets, 1 hose bib
29. Hose bib/burp valve for Smugglers campsite
30. Frost free spigot
31. Fire hydrant
32. Frost free spigot
33. Fire stand

Figure 2- System / Diagram details provided by permit holder.

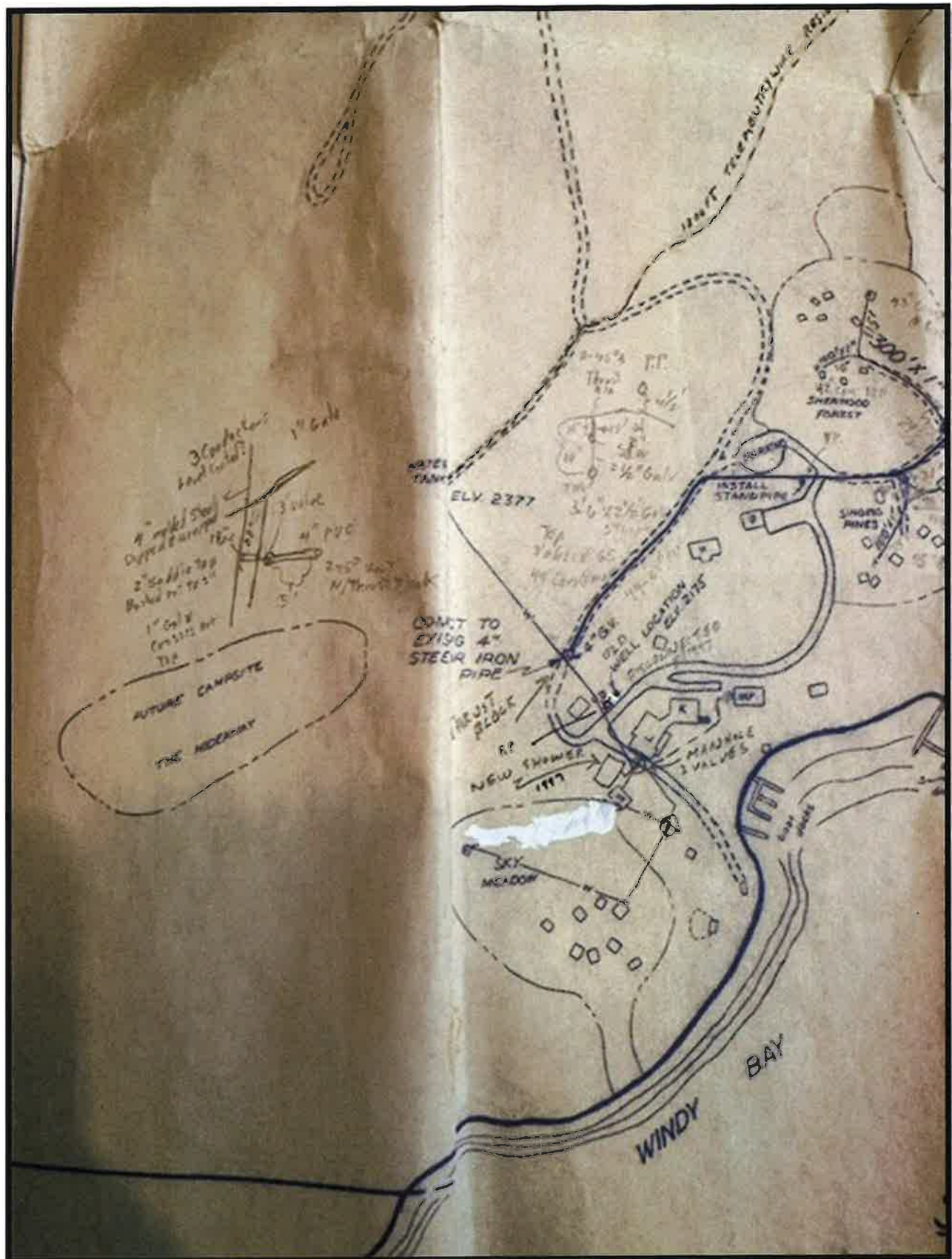


Photo 1- As Built' Utility Prints- Southernmost extent of the GS Camp.

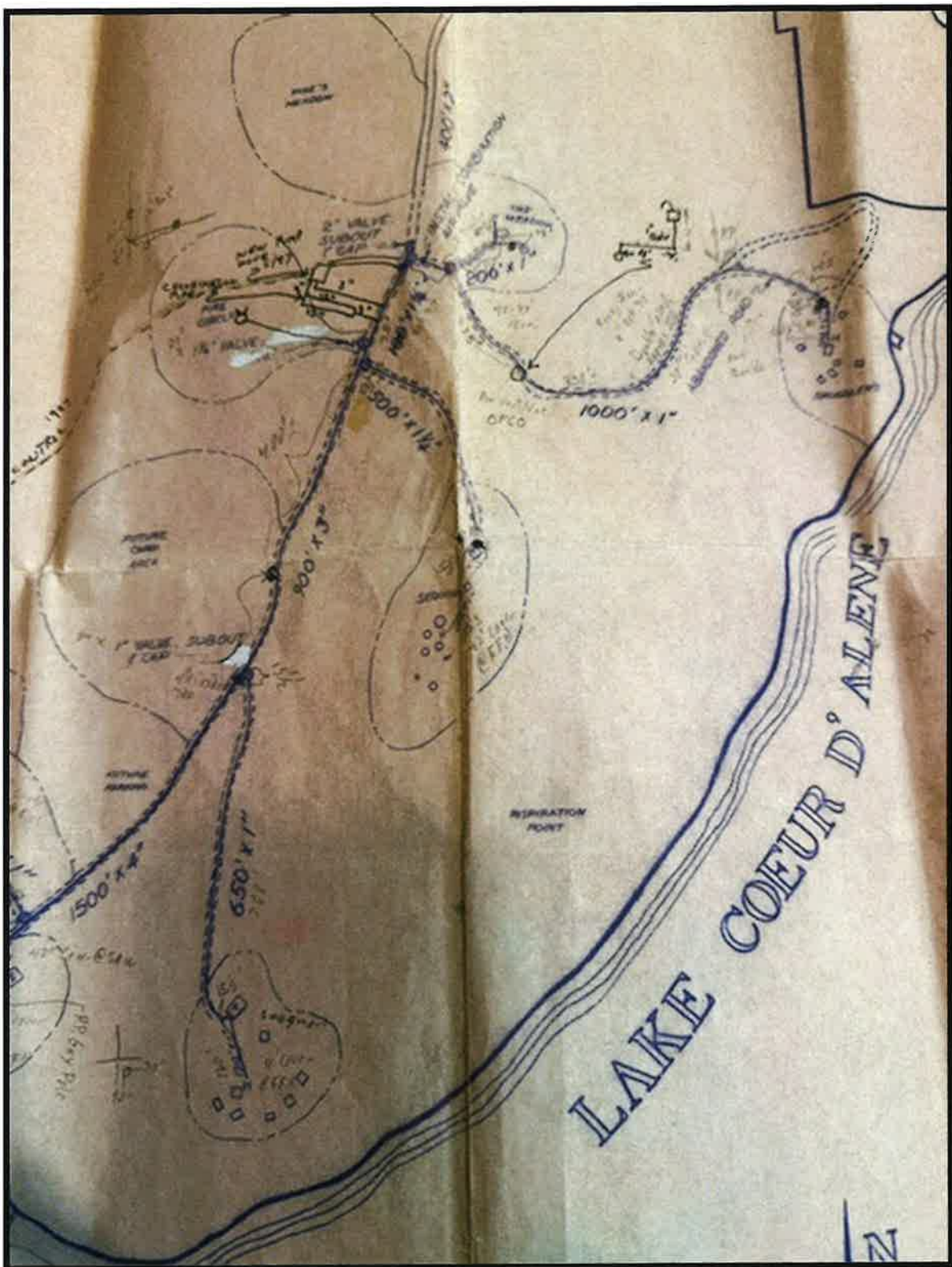


Photo 2- 'As Built' Blue Prints for Utilities. Image shows the campground from just north of the docks to the northern extent. Includes pipe dimensional information and pump information.

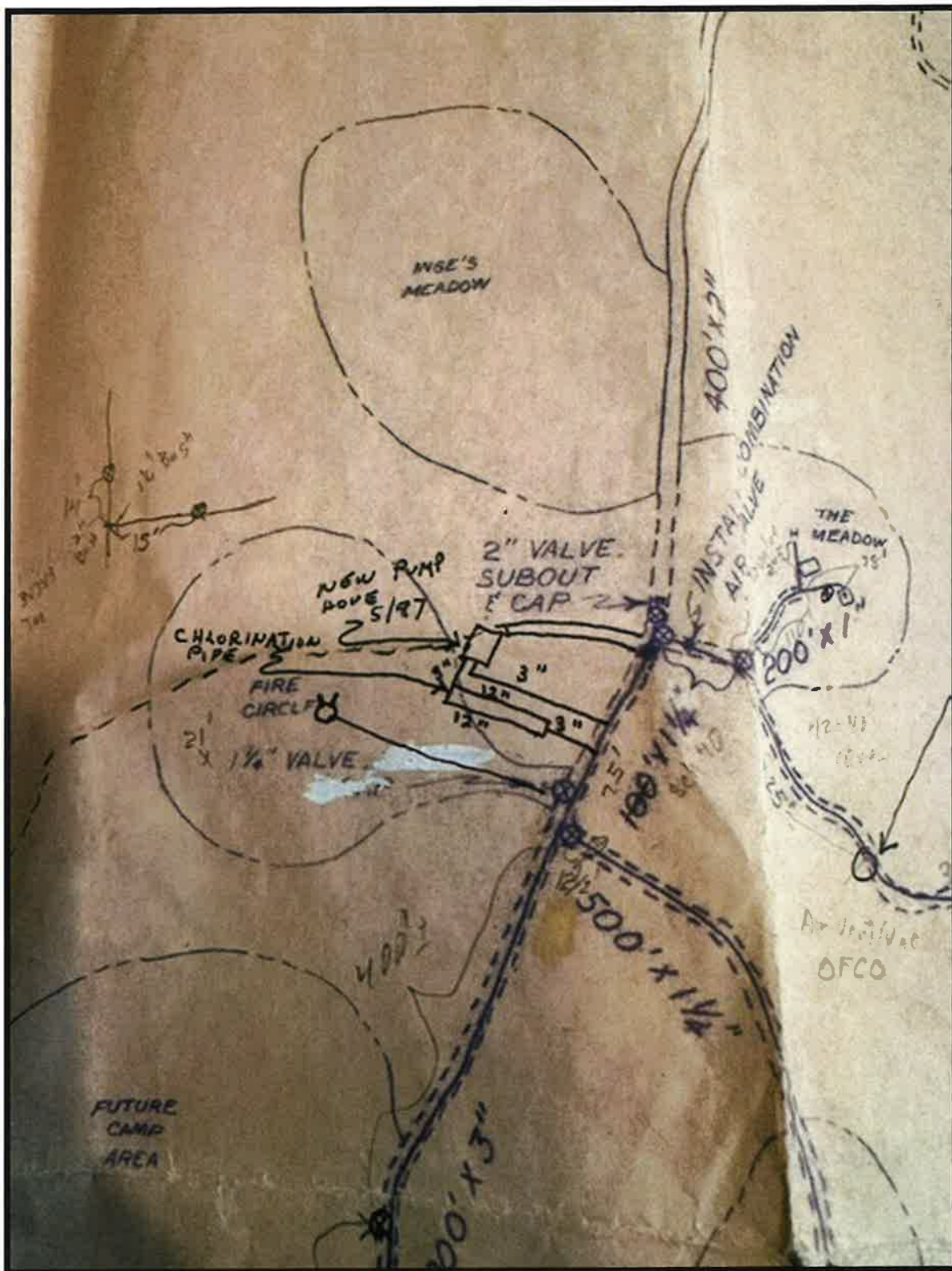
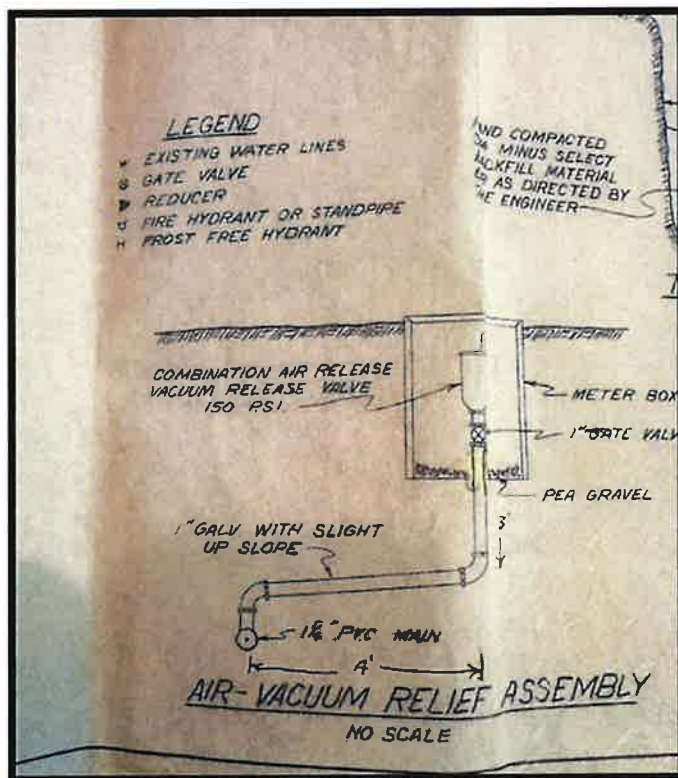
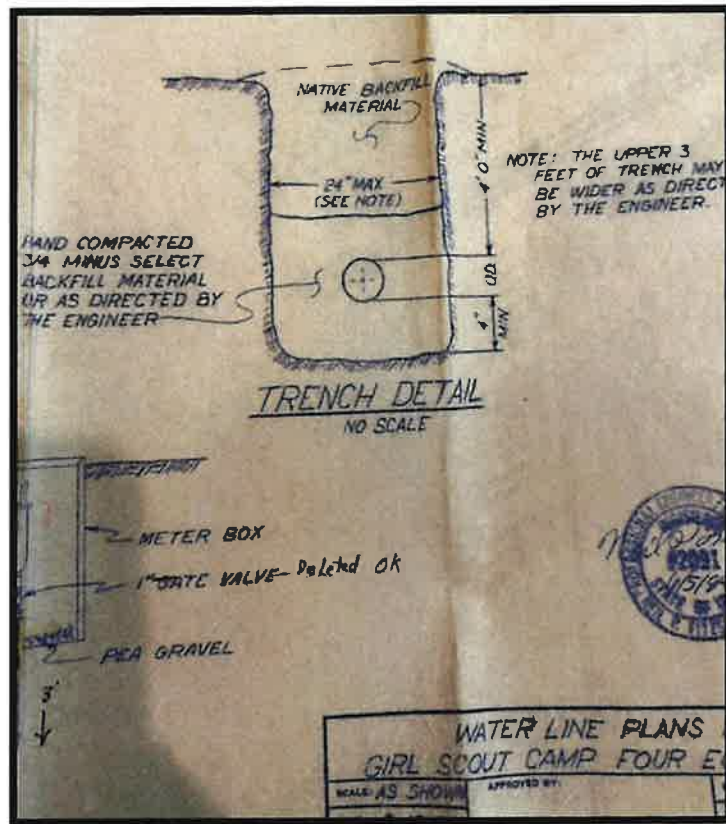
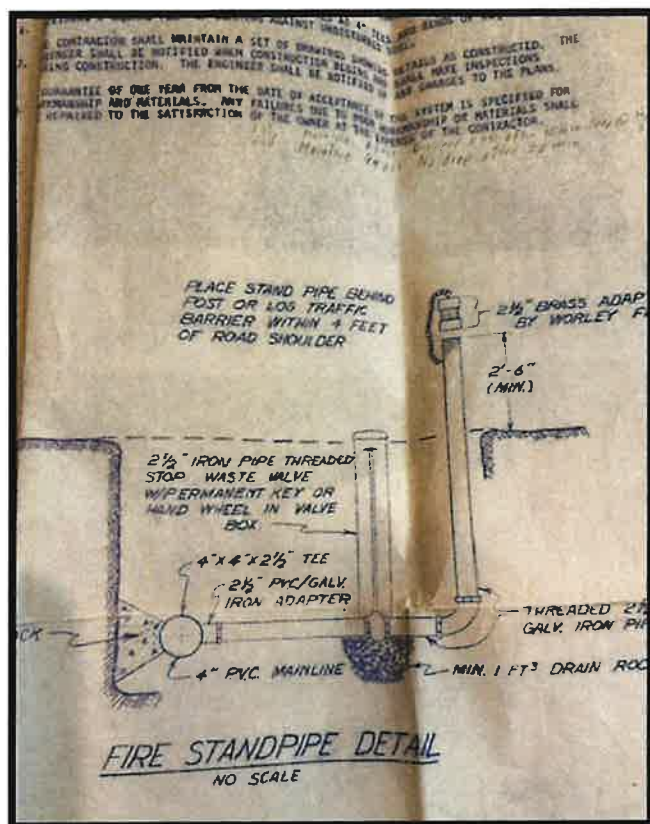


Photo 3- 'As built' Blueprints for Utilities. Image is zoomed in on the northern pump and chlorination system layout.



Photos 4-6 – Images of the fire stand details, trenching details, a legend for the plans, and the air vacuum relief assembly details

Howe, Bob

From: Howe, Bob
Sent: Monday, June 24, 2024 8:27 AM
To: Zane Steininger
Subject: Deadline for Information morning of 6.26.2024 -RE: CFE water system

Hi Zane,

Thank you for reaching out to me. Please let me know as soon as you have the facilities and system details. I am not sure if this helps, but you could scan and send a set of the "as built" plans with an inventory of the sinks, toilets, baths, showers, and other water receptacles in each building. I need to sort this out before the end of the month.

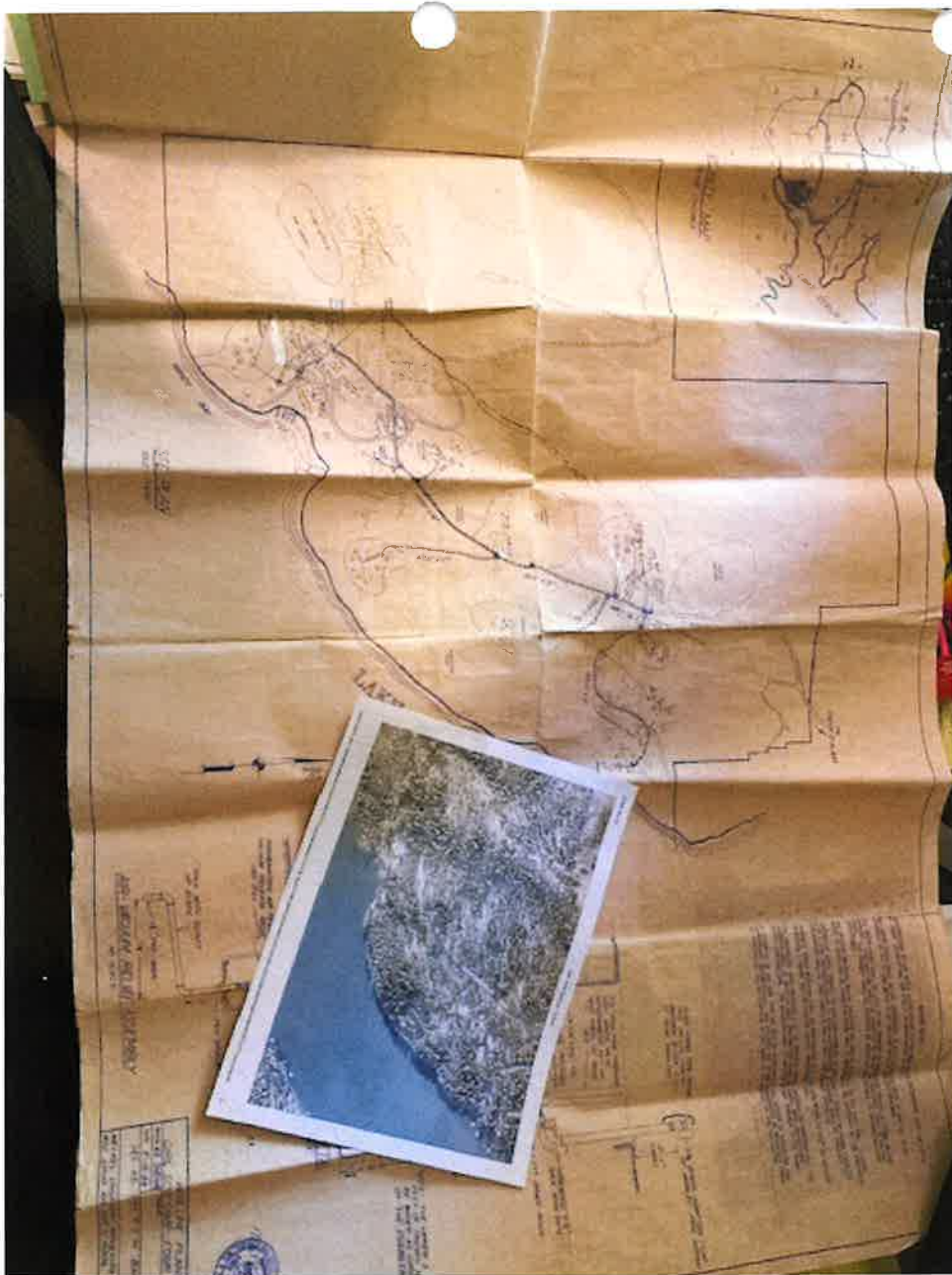
I will have to either have receive the information and complete my examination review (which takes a couple of days) or return the file to the regional office for a field examination to be scheduled. If I have not received the information by the morning of Wednesday 06/26/2024, I will have to return the file to the regional office. I hope this provides you enough time to submit the requested information.

Bob Howe

 IDAHO DEPARTMENT OF
WATER RESOURCES
Bob Howe | Water Resource Agent
322 E Front St, PO Box 83720, Boise, ID 83720
(208) 287-4800 | www.idwr.idaho.gov

From: Zane Steininger <zsteininger@gsewni.org>
Sent: Friday, June 21, 2024 10:22 AM
To: Howe, Bob <Bob.Howe@idwr.idaho.gov>
Subject: CFE water system

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.



I am working on it at this very moment. I found blue prints to help as it was kind of a mystery where our pipes ran and sizing. Also piecing together information from sanitary survey.

Zane C. Steininger II

Howe, Bob

From: Howe, Bob
Sent: Friday, May 3, 2024 4:35 PM
To: zsteininger@gsewni.org
Subject: Additional Information Requested-Permit 95-17782
Attachments: Kootenai COunty Imagery of POU.PNG; GIS 2023 Imagery of POU.PNG

Dear Zane Steininger,

The Department received the Proof of Beneficial Use you submitted for permit #95-17782. I am currently reviewing the permit eligibility for 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 aerial images to process the examination without the need for a field examination to be scheduled and conducted at a later time. The permit issued provided a scope for the development of future uses. The purpose of the examination is to record the details of the use that has been developed.

After reviewing your Proof of Beneficial Use, there are a few items in need of further information or clarification.

(1) As no map was provided with the proof of beneficial use (Statement of Completion) we will need you to identify and outline the 7 campsites and lodge on one of the attached images, or you may submit one of your own.

(2) Please provide a sketch of the system diagram from the point of diversion to delivery to the campsites and lodge. Making sure to identify the **water lines** (including dia. and type, for example ½" poly pipe), the **pumps** (including the Hp, make and model). This can be drawn on one of the images I have attached to this email, or you may use your own. Then attach the diagram to an email with any additional information regarding the system and/or that would be helpful in describing the system diagram.

(3) Please describe the types of uses at the campsites and lodge. For example bathrooms, if so how many, how many toilets, showers, sinks, etc. and if there is a kitchen in the lodge.

Feel free to reach out to me with any questions or concerns regarding the items requested. If I am unavailable any of my team members should be able to assist you, if you provide your permit # 95-17782. It is important that you **respond to this request within 14 days** by email and/or phone, in order to pursue this method to expedite your licensing process.

Thank you for your time and attention in this matter.

Bob Howe

 IDAHO DEPARTMENT OF
WATER RESOURCES
Bob Howe | Water Resource Agent
322 E Front St, PO Box 83720, Boise, ID 83720
(208) 287-4800 | www.idwr.idaho.gov

