

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 83-11980
Exam Date: 09/21/2020

1. Current Owner:
IDAHO DEPT OF PARKS & RECREATION 5657 WARM SPRINGS AVE BOISE ID 83716
2. Accompanied by: In office exam.

3. **SOURCE:**
GROUND WATER

Method of Determination: GIS, Arcmap, and DRG.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
83-7029	NORTHFORK CLEARWATER RIVER	DOMESTIC	LICENSE

Comments: Right 83-7029 is a surface water source for domestic purposes from the Northfork Clearwater River, which overlaps this right's POU. Applicant's stated in the application for permit for this right, that 83-7029 is insufficient in meeting the demands of Freeman Creek State Park, resulting in the need for added volume from right 83-11980. Condition X35 was integrated into the license to mitigate overlap concerns.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ SW¼, Sec. 1, Twp 37N, Rge 01E, B.M. CLEARWATER County

Method of Determination: POD is a well located at N46 34:646, W116 16:827; GPS provided by Idaho State Parks and Recreation representative.

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	
37N	01E	1			X				X	X	X	X		X					
														L9					

Method of Determination: Arcmap Aerial Imagery

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
D0060991	GOULDS	1.5			

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

Flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii.

F. DIVERSION RATES

The diversion rate for this domestic right is limited to **0.06 cfs** or 28.0 gpm. Applicant's representative provided well pump data, and pump curve data shows that at a pump depth of approximately 150 feet, the pump performance equates to 28 gpm.

G. VOLUME CALCULATIONS

The annual volume for this domestic right is limited to = 3.5 AF composed of the following calculations:

59 Tent Sites x 4 people per site x 10 gal per day x 152 day season of use = 358,720 gallons per season

46 RV Sites (full hook ups) x 100 gal per day x 152 day season of use = 699,200 gallons per season

¼ acre irrigation = 0.3 af per season, bases on ½ an acre authorized 0.6 af annually

Total Annual Volume = (358,720 gal + 699,200 gal) / 325,850 gal per af = 3.2 af (RV/Tent Sites) + 0.3 af (irrigation) = **3.5 af**

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies as for an in-house field examination. Internet research provided details regarding Freeman Creek State Park facility usage, and Arcmap 2019 aerial imagery illustrated park development. Idaho State Parks and Representative, Adam Zaragoza, provided additional information needed to derive annual volume metrics for licensing purposes. Using these data resources, there is sufficient information to verify this use.

The permit authorized 0.10 CFS or 45 GPM. This was based on the applicant's application for permit, which identified a 50 gpm pump intended to be installed in the well. Applicant's representative, Mr. Zaragoza, identified that a Goulds 1.5 HP 28

gpm (part No. 18GS15) was installed, which will provided less flow than the permit approved value. Using this information, the diversion rate for this domestic right is limited to **0.06 cfs** or 28.0 gpm considering department rounding standards.

Internet research on Freeman Creek (Dworshak State Park) concludes that Freeman Creek offers tent sites and full hook-up RV sites, in addition to other amenities. Email correspondence with Mr. Zaragoza further expanded on the season of use and water usage within the park. Mr. Zaragoza states that water is available may 1st through September 31st, and during licensing review the domestic season of use was corrected to 5/1 to 9/31. Domestic use at the POU is for 105 camp sites, which include 1 camp host RV site, 45 additional RV sites, and 59 tent sites. Referencing a Dworshak State Park at Freeman Creek map product, there are 23 stand pipes for public water use. Domestic water use for the tent sites includes two full service restrooms, one of which has a shower point included. Applicant's stated they have minimal irrigation needs, equaling approximately ¼ acre spread out in small patches throughout the park. Using this information, the domestic annual volume was calculated to equal the following:

- 59 Tent Sites x 4 people per site x 10 gal per day x 152 day season of use = 358,720 gallons per season
- 46 RV Sites (full hook ups) x 100 gal per day x 152 day season of use = 699,200 gallons per season
- $\frac{1}{4}$ acre irrigation = 0.3 af per season, bases on $\frac{1}{2}$ an acre authorized 0.6 af annually

Total Annual Volume = (358,720 gal + 699,200 gal) / 325,850 gal per af = 3.2 af (RV/Tent Sites) + 0.3 af (irrigation) = **3.5 af**, which will be applied to license as the Maximum diversion volume.

Conditions 26A and 046 were removed from license. Condition X01 was adapted to accurately describe domestic use. Condition X35 was added to describe domestic overlap from right 83-7029. Right 83-7029 is a surface water source for domestic purposes from the Northfork Clearwater River, which overlaps this right's POU. Applicant's stated in the application for permit for this right, that 83-7029 is insufficient in meeting the demands of Freeman Creek State Park, necessitating the added volume from right 83-11980. Condition X35 was added limiting rights 83-7029 and 83-11980 to a total annual maximum diversion volume of 7.5 af. There are no other overlap concerns for this right.

Have conditions of permit approval been met? ☒ 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	05/01 to 09/31	0.06 CFS	3.5 AF
Totals:		0.06 CFS	3.5 AF

2. Recommended Amendments

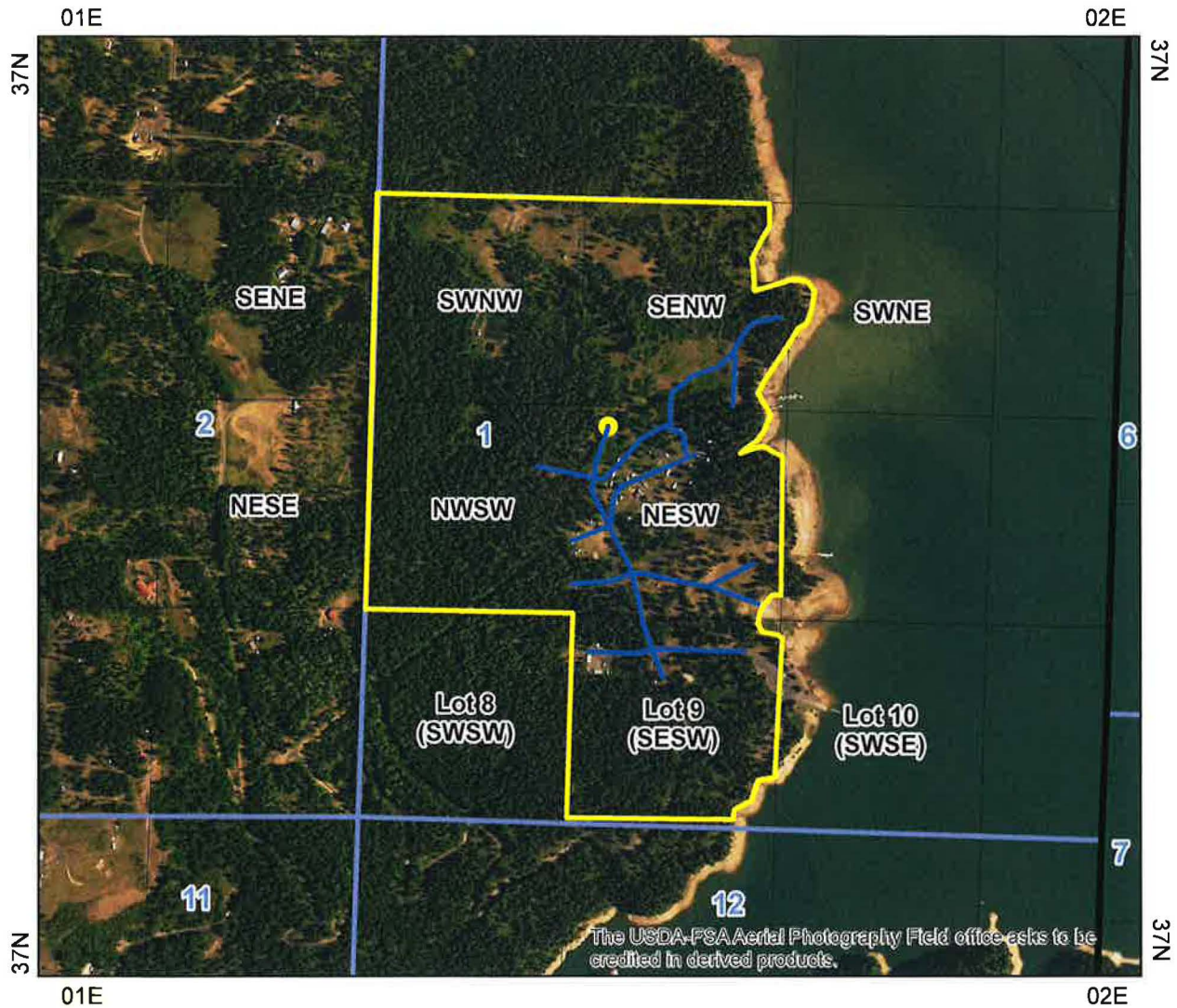
_____ Change P.D. as reflected above	_____ Add P.D. as reflected above	<u> X </u> None
_____ Change P.U. as reflected above	_____ Add P.U. as reflected above	<u> X </u> None

J. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name TS AB Date 12/10/2020
Reviewer Adm. Fink Date 12/14/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
83-11980

DOMESTIC system diagram.

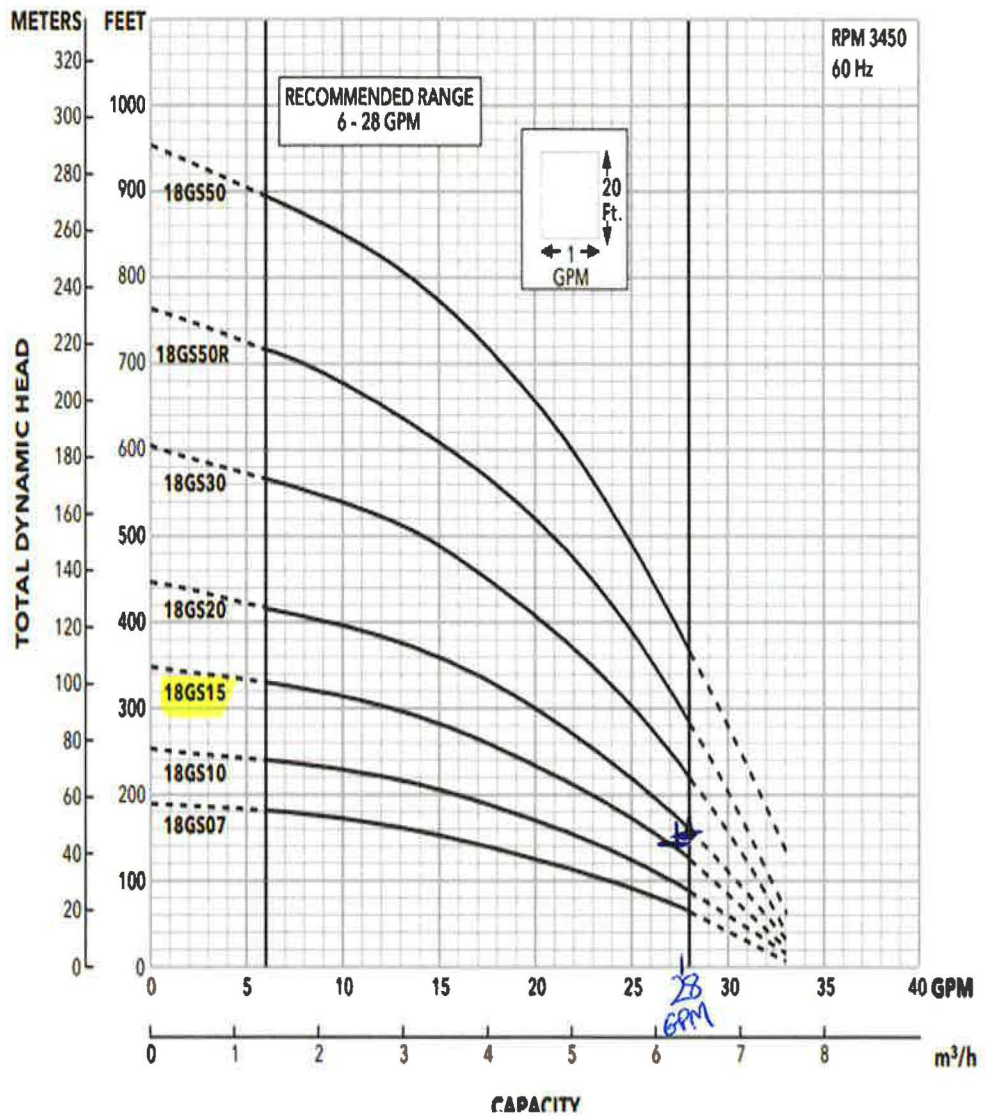


- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.125 0.25 0.5 Miles



Model 18GS





Goulds 18GS15, Model 18GS, GS Series, 4" Submersible Well Pump End, 1-1/2 HP Required, 11 Stages, 1-1/4" NPT Discharge, 18 GPM Best Efficiency Flow



SKU #: 18GS15

Brand: Goulds

✓ **Available For Order!** (Usually Ships 3-5 Days)

✓ **Free Shipping**

Like 0

Save Share



Price:

Qty:

[Order By Phone](#)

[Calculate Shipping](#)

MAP
\$ LIST PRICE \$21.00

1

[See Price in Cart](#)

Ship Weight (15.00 lbs)

✓ **Call Sales Counter!**

DESCRIPTION	MANUALS	SPECIFICATIONS	QUESTIONS	REPAIR PARTS
Brand		Goulds		Discharge Head AISI 303 stainless steel
Mfg. Number		18GS15		Pump Casing AISI 304 stainless steel
Model Number		18GS		Impeller Noryl
Series		GS		Check Valve Poppet AISI 304 stainless steel
Product Type		Submersible well pump		Check Valve Seal BUNA, FDA compliant
Application		Water systems		Check Valve Retaining Ring AISI 302 stainless steel
Horsepower Required		1-1/2 HP		Bearing Proprietary engineered polymer
Stages		11		Motor Adapter AISI 303 stainless steel
Minimum Well Size		4"		Cable Guard AISI 304 stainless steel
Rotation		Counterclockwise		Suction Screen AISI 304 stainless steel
Discharge Connection		1-1/4" NPT		Motor Not included
Best Efficiency Flow		18 gpm		Length 16.1"
Flow Range		6 - 28 gpm		

LEGEND



Administration
Amphitheater
Dump Station
Fish Cleaning
Horseshoes
Park Shop
Playground
Restrooms
Shelter
Showers
Volleyball

Camp Site
Moorage Slip
Water
Foot Trail
Parking



0 100 200 300 400 500 ft

To Disc Golf, Archery Range,
and Three Meadows Group Camp

Camas
Loop

Blackberry
Group Loop

Aspen
Group Loop

Host &
Staff

Park
Shop

Dry
Dock

Dump
Station

Host

Freeman Creek Rd

Placid
View Trl
1/2 mile

Amphitheater

Kokanee Loop

Showers
Host

Osprey
Loop

Clearwater
Lochsa
North Fork
Selway

Entry Station

Fish
Cleaning
Station

Trout
Tent
Area

Small
Mouth
Moorage

Dworshak
Reservoir

Day Use
Dock

Swim
Area

Sun Shelter

Playground

Daily Boat
Launch Parking

Overnight Boat
Launch Parking

Launch
Dock

Big Eddy Trail
(10 miles)

**DWORSHAK STATE PARK
AT FREEMAN CREEK**
(208) 476-5994

For reservations call 1-888-922-6743 or
www.parksandrecreation.idaho.gov



US Army Corps of Engineers Walla Walla District Website Website

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Freeman Creek (Dworshak State Park)

Dworshak State Park offers over 100 camping sites from tents to camping cabins in 2 camping areas:

Freeman Creek

Freeman Creek offers tent sites, full hook-up RV sites, camping cabins, and two group camps. Amenities available are a group shelter, swimming area, trails, boat launch, playground, wifi, fish cleaning station and an amphitheater. There is a small store located at the fee booth that provides rentals for canoes, kayaks, and paddleboards, along with a few items that include ice cream.



Three Meadows Group Camp

Perfect for retreats and family reunions, church camps and other functions for up to 100 people in the camp cabins with additional areas available for tents and RV's. The Three Meadows Lodge includes a kitchen, large meeting and dining area and a wood burning stove. For recreation at Three Meadows the multi-purpose field offers volleyball, basketball, baseball, and an outdoor amphitheater. Boating, swimming, and a fishing dock are available about a quarter of a mile down on a limited access road.

Please consider the following when planning your trip to Dworshak State Park:

-Reservations for Campground:

-Reservations are needed. Call 1-888-922-6743 or go to reserveamerica.com.

-When making reservations for the group camps please consider: group camp loops A and B have four non hook-up pull through sites. Group camp loop C has a combination of 11 pull-through and back-in electric only hook-up sites.

-Dworshak State Park phone is 208-476-3132

-The boat ramp is usable down to water elevation of 1515 msl. A finger dock is available during the main season for camper use. Life jacket loaner boards are available at the boat ramp and the swim beach.

-Pets need to be on a leash and under control.

-Dumpster and potable water is available.

Note:

-Hunting is prohibited.

-ATV's use is allowed on the pavement.

-Cell phone service is limited at best.

-Area closes when road becomes impassable due to winter conditions.

Contact Us

**Dworshak Reservoir
Natural Resources**

P.O. Box 48
Ahsahka, Idaho 83520

Visitor Center Staff

208-476-1255

24-hour Information

800-321-3198

[DworshakRecreation-
NaturalResources@usace.army.mil](mailto:DworshakRecreation-NaturalResources@usace.army.mil)

Big Eddy Marina

Information

208-476-5994

Dworshak State Park

208-476-3132

Water Safety

[Life Jacket Loaner Board](#)

[Wear It!](#)

[Videos](#)

[Waves of Hope](#)

Our Mission



From: Adam Zaragoza <Adam.Zaragoza@idpr.idaho.gov>
Sent: Thursday, September 17, 2020 1:21 PM
To: Bates, Luke
Cc: Nathan Blackburn; Lucas Wingert
Subject: RE: IDWR WR 83-11980 Freeman Creek State Park

Hi Luke...my apologies for getting back to you late. See below for answers to the questions and we will be happy to provide you any more detail. Thanks.

1. If possible, GPS location of well **N46 34:646, W116 16:827**
2. Layout Map of Camp Ground **See attached map**
3. Open/Close dates of CG to determine season of use **The campground does not close, but water is available May 1st through September 31st.**
4. Type of pump used in well – if possible the pump type, manufacturer, and HP **Goulds 1.5 HP 18 Gallon Submersible 18GS15**

Other unknowns are as follows:

- a. How is the water used, i.e. is there full water to certain areas for RV hook ups? **Kokanee has water hookups at each site (45 hookups) and an additional 23 stand pipes for public water access.**
- b. If tent only campsites, how many bathrooms are there? Are there any full service bathrooms with showers attached? **There is one restroom facility with showers and flush toilets, and one restroom with only flush toilets. All other public restrooms in the park are vault toilets.**
- c. Occupancy rates, i.e. a weekly, monthly, or seasonal total of people who used the CG (if your reporting figures provide those values). If not, a best estimate of weekly average people using CG is needed to assess annual volume of water used. **In 2019 Dworshak State Park had 25,814 total campers. We have an occupancy rate of approximately 12.87% for all available nights.**

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Tuesday, September 15, 2020 8:45 AM
To: Adam Zaragoza <Adam.Zaragoza@idpr.idaho.gov>
Subject: RE: IDWR WR 83-11980 Freeman Creek State Park

Good morning Adam,

I was following up on an email from early summer, to identify if you've been able to procure any data that can assist in the prepping for license for Freeman Creek State Park water right 83-11980.

Thank you,

Luke Bates
Water Resource Agent
Idaho Dept. of Water Resources
Northern Regional Office
P: (208) 762-2800
F: (208) 762-2819
Luke.bates@idwr.idaho.gov

From: Adam Zaragoza [<mailto:Adam.Zaragoza@idpr.idaho.gov>]

Sent: Monday, May 18, 2020 2:16 PM

To: Bates, Luke <Luke.Bates@idwr.idaho.gov>

Subject: RE: IDWR WR 83-11980 Freeman Creek State Park

Thanks Luke...I will be at Dworshak next week and will get back to you.

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>

Sent: Friday, May 15, 2020 9:33 AM

To: Adam Zaragoza <Adam.Zaragoza@idpr.idaho.gov>

Subject: FW: IDWR WR 83-11980 Freeman Creek State Park

Adam,

Your email was the only one that was current, the others were not valid emails.

v/r,

Luke Bates

Water Resource Agent

Idaho Dept. of Water Resources

Northern Regional Office

P: (208) 762-2800

F: (208) 762-2819

Luke.bates@idwr.idaho.gov

From: Bates, Luke

Sent: Friday, May 15, 2020 8:31 AM

To: 'patrick.dingman@idpr.idaho.gov' <patrick.dingman@idpr.idaho.gov>; 'adam.zaragoza@idpr.idaho.gov'

<adam.zaragoza@idpr.idaho.gov>; 'jim.thomas@idpr.idaho.gov' <jim.thomas@idpr.idaho.gov>

Subject: IDWR WR 83-11980 Freeman Creek State Park

Good morning Gentlemen.

I am currently conducting licensing review for WR 83-11980 associated with Freeman Creek State Park. I need to obtain additional information to enable me to determine volume rates for this WR prior to licensing approval as follows:

1. If possible, GPS location of well
2. Layout Map of Camp Ground
3. Open/Close dates of CG to determine season of use
4. Type of pump used in well – if possible the pump type, manufacturer, and HP

Other unknowns are as follows:

- a. How is the water used, i.e. is there full water to certain areas for RV hook ups?
- b. If tent only campsites, how many bathrooms are there? Are there any full service bathrooms with showers attached?
- c. Occupancy rates, i.e. a weekly, monthly, or seasonal total of people who used the CG (if your reporting figures provide those values). If not, a best estimate of weekly average people using CG is needed to assess annual volume of water used.

Thank you in advance for considering these requests for information, and I look forward to working with you to finalize this water right license.

V/r,

Luke Bates
Water Resource Agent
Idaho Dept. of Water Resources
Northern Regional Office
P: (208) 762-2800
F: (208) 762-2819
Luke.bates@idwr.idaho.gov

83 - 11980

9/22/2020



FREEMAN CREEK STATE PARK (DWORSHAK STATE PARK)



DOMESTIC POU – FREEMAN CREEK STATE PARK





POU - FREEMAN CREEK STATE PARK



DOMESTIC POU



DOMESTIC POU – RV SITES





POU – DOMESTIC USE AT RV SITE