



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

13A

October 1, 1998

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

Ron Abramovich
NRCS
9173 W Barnes Dr, Suite C
Boise, ID 83709

Re: Cub River

Dear Ron,

Enclosed is a copy of the stream discharge notes for the measurement we made together at the old USGS Cub River site on September 17, 1998. I double checked the notes. I believe that the final discharge as per my check changed your compiled version several tenths of a cfs. The discrepancy was probably due to some quirk of my calculator. I know that a few of the keys require a heavier finger. Anyway, you may want to double check the computed gage shift with the revised discharge. Let me know if there is any difference in the shift so that I can update my notes. Also, would you mind sending me a copy of your USGS rating table for this site? I can't remember if you told me that you had confirmed that the rating you had was indeed the last one compiled by the USGS. If you are not certain, let me know. I can check our record or those of the USGS if necessary.

I have also enclosed some information about the Idaho Water Resource Board Financial Programs. We had discussed including this information with the written summary that you are preparing. The Board applications are now on our web home page. The INTERNET address is provided on the attached material. Please send me a copy of the summary that you send to the Cub River water users. I am still interested in providing what limited assistance I can for this gage site.

Thanks for helping to set up and sponsor the monitoring equipment demonstration on September 17 in Preston. I enjoyed working and visiting with both you and Glade.

Regards,

A handwritten signature in cursive script that reads 'Tim Luke'.

Tim Luke

**State of Idaho
Department of Water Resources
Water District 13-A**

Meas. No.
Comp. by. R.A.

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by T.J.L.
Cub River near Preston
Date Sept. 17, 1998 Party T. Luke R. Abramovich
Width 21.7' Area 30.38 ft² Vel. 1.14 fps G. H. 0.21 Disch. 34.56
Method 1.2pt No. secs. 22 G. H. change. in hrs. Susp.
Method coef. Hor. angle coef. Susp. coef. Meter No.
Type of meter Swatch 200 Date rated 4/19/95 Tag checked
Meter ft. above bottom of wt. Spin before meas. OK after OK ..
Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS	
Time		Inside	HM	Chart	Outside	No. Yes. Time
1840		0.21			0.22	 Samples Collected No. Yes. Time
1900		0.21				
1930		0.21			0.22	
						Method Used EDI EWI Other.
						SEDIMENT SAMPLES No. Yes. Time
						Method Used EDI EWI Other.
						BIOLOGICAL SAMPLES Yes. Time
						No. Type
Weighted M.G.H.						
G. H. correction		<u>+15</u>			<u>+14</u>	
Correct M.G.H.						

Check bar. chain found changed to at
 Wading cable, ice, boat, upstr., downstr., side bridge. 5 feet, mile, above, below gage.
 Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:
 Flow. Fairly Laminar & Smooth
 Cross section COBBLE BOTTOM w/ SEVERAL Large Boulders
 Control ROCK BANKS - esp. left side
 Gage operating. Mesh Recorder - OK Weather Clear, Sunny, Warm
 Intake/Orifice cleaned Air °C@ Water °C@
 Record removed Extreme Indicator: Max. Min.
 Manometer N₂ Pressure Tank Feed Bbl rate per min.
 CSG checked Stick reading
 Observer
 HWM outside, in well
 Remarks
 GPS LAT\LONG
 G.H. of zero flow ft. Sheet No. of sheets

**State of Idaho
Department of Water Resources
Water District 13-A**

Meas. No.
Comp. by. R.A.

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by TJL

Cub River near Preston
Date Sept. 17, 1998 Party T. Luke P. Abramowitz
Width 21.7' Area 30.38 ft² Vel. 1.14 fps G. H. 0.21 Disch. 34.56
Method 1.42 ft No. secs. 22 G. H. change. in hrs. Susp.
Method coef. Hor. angle coef. Susp. coef. Meter No.
Type of meter Swastic 200 Date rated 4/19/95 Tag checked
Meter ft. above bottom of wt. Spin before meas. OK after OK.....
Meas. plots. % diff. from. rating. Levels obtained.

GAGE READINGS					WATER QUALITY MEASUREMENTS		
Time	Inside	HM	Chart	Outside	No	Yes	Time
1840	0.21			0.22	Samples Collected		
1900	0.21				No	Yes	Time
1930	0.21			0.22	Method Used		
					EDI	EWI	Other
					SEDIMENT SAMPLES		
					No	Yes	Time
					Method Used		
					EDI	EWI	Other
					BIOLOGICAL SAMPLES		
Weighted M.G.H.					Yes		Time
G. H. correction	<u>+15</u>			<u>+14</u>	No		Type
Correct M.G.H.							

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. 5 feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow .. Fairly Laminar & Smooth

Cross section .. COBBLE BOTTOM w/ SEVERAL Large Boulders

Control ROCK BANKS - esp. left side

Gage operating Mech. Recorder - OK Weather Clear, Sunny, Warm

Intake/Orifice cleaned Air °C @ Water °C @

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

GPS LAT\LONG

G.H. of zero flow ft. Sheet No. of sheets



Idaho Water Resource Board Financial Programs

The Idaho Water Resource Board Financial Program assists local governments, water and homeowners associations, non-profit water companies, canal companies and irrigation districts with funding for water system infrastructure projects. The Board has provided financial support to more than 380 water projects and studies around Idaho.

This program can be used cooperatively with private or other public funding sources.

The various types of water projects that have been funded by this program include public drinking water system projects, irrigation system projects, drainage or flood control projects, groundwater recharge projects, and engineering, planning, and design studies associated with water projects. The projects funded must be of a public nature and be consistent with the Idaho State Water Plan.

Three Ways to Receive Financial Assistance from the Water Resource Board for Water Projects

LOANS

The Idaho Water Resource Board can award low-interest loans of up to \$500,000 to finance water projects. The rate of interest charged is set on an annual basis in July of every year, and is currently at 5%. It is dependent on a number of factors, including the current Federal Reserve Discount Rate, and the economic conditions within Idaho. The repayment period varies depending on the amount borrowed, the scope of the project, and the annual repayment amount that the borrower can afford, and what the borrower wants as a repayment period. Repayment periods have ranged from 5 to 20 years, with 10 years being standard.

GRANTS

The Idaho Water Resource Board issues grants primarily to assist with the cost of engineering and design studies that are necessary when planning a water project. The grants normally require 50% matching funds from the project sponsor, and usually have a maximum limit of \$7,500.

REVENUE BONDS

The Idaho Water Resource Board has the authority to issue bonds on behalf of any project sponsor to finance appropriate water projects. The Board issues and sells the bonds, and then loans the proceeds of the bond sale to the project sponsor. Because the Board is a public agency the income derived from these bonds may be exempt from certain taxes, which may result in lower bond repayments for the project sponsor. Because these are revenue bonds, they are secured by project revenue and do not constitute a general obligation on the Water Resource Board or the State of Idaho.

The Board's financial program has three separate elements: the Revolving Development Account, the Water Management Account and the Water Resource Development Revenue Bond Program.

• **Revolving Development Account**

This program was created in 1969 and is designed to provide loans to initiate and support the development of the water resources of the state. Financial support goes to new construction and rehabilitation, expansion or improvement of existing water systems and for specialized water resource studies.

As of June 30, 1996, a total of 87 loans amounting to \$6,053,155 have been authorized by the Board since the program began in 1969.

• **Water Management Account**

This program was created in 1978 to provide loans and grants for a variety of water projects. These include off-stream or upstream storage, drainage or irrigation of agricultural property, flood control, energy production, domestic and municipal water supplies, reservoir acquisition, aquifer recharge, aquaculture, recreation, water quality and fish and wildlife projects. As of June 30, 1996, there have been a total of four loans, amounting to \$329,500, and 97 grants, totaling \$1,938,393 authorized by the board since the program began in 1978.

• **Revenue Bond Program**

This program was established in 1981 to provide a vehicle for project financing. Since 1983, revenue bonds authorized by the Board have proved \$75,672,576 in funding for 147 different water projects. Bond issues have ranged from \$5,481 to \$30 million.

APPLICATION FORMS

There are four different application forms for the Board's Financial Program. They are available upon request or by selecting from the following :

*Note: These files are in Portable Document Format (PDF). You **must** have version 3.0 or higher of Adobe Acrobat Reader installed on your computer to view and print these forms. If you do not have a copy of Adobe Acrobat Reader or your current version is not 3.0 or higher, you can download a free copy at this time by clicking on the PDF icon.*



- Community Drinking Water System Construction Application
- Engineering Work on Community Drinking Water Systems
- Non-drinking Water System Construction Project (Irrigation, Drainage, Flood Control, Groundwater Recharge, Other)
- Engineering Work on a Non-culinary Water System (Irrigation, Drainage, Flood Control, Groundwater Recharge, Other)

We recommend you first contact the Board's Financial Program Coordinator before you submit an application. His name is:

Brian Patton
1301 N. Orchard St.
Boise, ID 83706 > Tel: (208) 327-5432 - Fax: (208) 327-7866
E-Mail: bpatton@idwr.state.id.us

To return to the IDWR Homepage, please select Home.

Last Modified On July 24, 1998
By dlarsen@idwr.state.id.us



IDAHO WATER RESOURCE BOARD

1301 North Orchard Street, Statehouse Mail
Boise, Idaho 83720
Tel: (208) 327-7900
FAX: (208) 327-7866



**APPLICATION FOR FINANCIAL ASSISTANCE TO CONDUCT ENGINEERING
WORK ON A NON-CULINARY WATER SYSTEM (IRRIGATION, DRAINAGE,
FLOOD CONTROL, GROUNDWATER RECHARGE, OTHER)**

Please answer the following questions and provide the requested material as directed. Feel free to provide further information as needed. Additional information may be requested by the Idaho Water Resource Board/Idaho Department of Water Resources depending on the scope of the project and amount of funding requested.

I. Prepare and attach a "Letter of Intent". The Letter should be addressed to the Idaho Water Resource Board at 1301 N. Orchard Street, Statehouse Mail, Boise, Idaho, 83720, and should include the following items:

- A. A statement that the organization is applying for a Financial Assistance from the Water Resource Board.
- B. A brief description of the study or engineering work that will be performed with the financial assistance.
- C. Preliminary estimate of study costs, and amount of funding being requested.
- D. Brief justification for the study, and benefits to be gained from the study.
- E. Other information as necessary to fully explain the intent of the request.

II. Attach a "Scope of Services" or other similar document that outlines the services that the engineer will perform.

III. Organization applying for funding:

- A. Formal name of your organization: _____
- Address: _____
- Telephone number _____ FAX number _____
- Contact person and title _____

B. Type of organization: (Circle one)

- Irrigation District Canal/Irrigation/Ditch Company Lateral Association
- Drainage District Flood Control District Homeowner's Association
- Water User's Association Municipality Reservoir Company
- Other (Explain) _____

C. Briefly describe the purpose of your organization and water system: _____

D. Briefly describe the geographic location which is served by your organization and water system: _____

E. Is your organization registered with the Idaho Secretary of State's office?
___ Yes ___ No

IV. WATER SYSTEM:

A. Source of water: _____

B. Water Right Numbers: _____

B. Briefly describe the physical components of your organization's water system: _____

C. If irrigation system:
Number of acres served: _____
Number of shareholders served: _____
On average, how much water is provided annually? _____ acre-feet
Typical types of crops grown: _____

D. If flood control system, drainage system, groundwater recharge, or other type of system:
Number of acres within District or service area: _____
Number of people within District or service area: _____

V. USER RATES:

A. How does you organization charge user rates? 1. Per Acre 2. Per Share
3. Tax Assessment 4. Other (Explain) _____

B. Current user rate? \$ _____ per _____
If additional explanation of user rates or assessments is needed, attach a separate explanation sheet.

C. When was the last rate change? _____

D. Does your organization measure water use? Yes No
If yes, explain how: _____

E. Does your organization have a regular assessment for a reserve fund?
 Yes No
If yes, explain how it is assessed: _____

F. Does your organization have an assessment for some future special need?
 Yes No
If yes, explain how it is assessed: _____
If yes, for what purpose? _____

VI. FINANCIAL CONDITION:

A. Attach a copy of current financial statement.

B. Annual revenues

From customers through rates:.....	\$	_____
From sale/rental of water to others.....	\$	_____
From power sales.....	\$	_____
From tax assessments.....	\$	_____
From other sources (Explain).....	\$	_____
TOTAL ANNUAL REVENUES	\$	_____

C. Annual expenses

For operations and maintenance.....	\$	_____
For personnel.....	\$	_____
For overhead (office, legal, etc.).....	\$	_____
For debt service		
Federal (Agency or program _____)....	\$	_____
State (Agency or program _____)....	\$	_____
Private (Company _____)....	\$	_____
For other (Explain).....	\$	_____
TOTAL ANNUAL EXPENSES....	\$	_____

D. Value and description of assets:

	Description	
Land	_____	\$ _____
Buildings	_____	\$ _____
Waterworks	_____	\$ _____

Equipment _____	\$ _____
Reserve Funds _____	\$ _____
Other _____	\$ _____
TOTAL	\$ _____

If any equipment is shared with other organizations, such as two irrigation companies using the same diversion dam, please explain how it's value and costs are allocated: _____

E. Outstanding indebtedness:

	Years Remaining	Annual Payment	Whom To
Bonds	_____	_____	_____
Loans	_____	_____	_____
Other	_____	_____	_____

VII. FUTURE NEEDS

List any major projects which need to be done within the next five years:

Description	\$ Amount	Purpose: Renovation, Expansion	Priority:
		Water Quality, Supply, Etc..	
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____