

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 63-09368

Priority: April 17, 1980

Maximum Diversion Rate: 11.74 CFS

It is hereby certified that REYNOLDS IRRIGATION DISTRICT
PO BOX 12
MELBA ID 83641 has complied with the terms and conditions of the
permit, issued pursuant to Application for Permit dated September 3, 1980; and has submitted Proof of
Beneficial Use on February 12, 1988. An examination confirms water is diverted from:

SOURCE

GROUND WATER

Tributary: WARM SPRINGS CREEK

and a water right has been established as follows:

BENEFICIAL USE

POWER

PERIOD OF USE

01/01 to 12/31

DIVERSION RATE

11.74 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE1/4SE1/4 Sec. 3, Twp 01S, Rge 02W, B.M.

CANYON County

GROUND WATER SE1/4SE1/4 Sec. 3, Twp 01S, Rge 02W, B.M.

CANYON County

GROUND WATER SE1/4SE1/4 Sec. 3, Twp 01S, Rge 02W, B.M.

CANYON County

PLACE OF USE: POWER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	02W	17		X															

CONDITIONS OF APPROVAL

1. The rights for the use of water confirmed in this license shall be junior and subordinate to all rights for the use of water other than hydropower, within the State of Idaho that are initiated later in time than the priority of this right and shall not give rise to any right or claim against any future rights for the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this right.
2. This right does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.

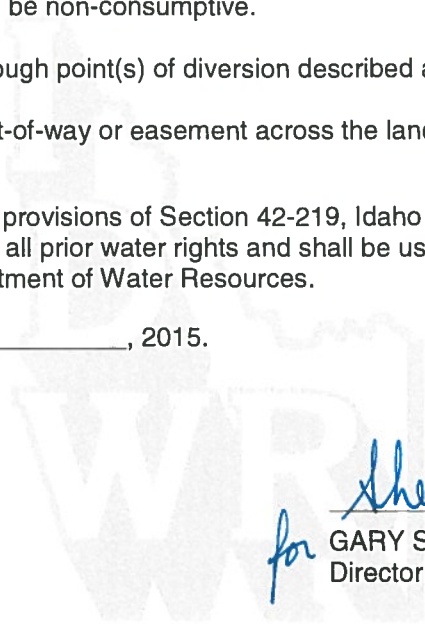
State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 63-09368

3. The term of this water right license shall run concurrently with energy sales agreement IPUC Case Number U-1006-224, Order Number 19794 approved by the Idaho Public Utilities Commission, which expires on April 1, 2020. Prior to the expiration of the term, the Director may issue an order canceling all or any part of the use authorized herein, may establish a new term, or may revise, delete, or add conditions under which the water right license may be exercised. The order shall take effect on the date the current term expires. If the Director does not issue such an order, the term shall automatically extend to a length equal to the prior term and any prior conditions on the water right license shall remain in effect.
4. Use of water under this right shall be non-consumptive.
5. The following right is diverted through point(s) of diversion described above: 63-359.
6. This right does not grant any right-of-way or easement across the land of another.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 27th day of May, 2015.



for GARY SPACKMAN
Director



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 2, 2015

REYNOLDS IRRIGATION DISTRICT
PO BOX 12
MELBA ID 83641

RE: License No. 63-9368

Issuance of License

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license. Also enclosed is a copy of the approved application for amendment.

The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-287-4951.

Sincerely,

Pamela Skaggs

Water Rights Supervisor

Enclosure(s)

CERTIFICATE OF SERVICE

I hereby certify that on June 4, 2015, I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER (**Approved License**) to the person(s) listed below:

RE: WATER RIGHT NO.

63-9368

REYNOLDS IRRIGATION DISTRICT
PO BOX 12
MELBA ID 83641



Darla Block
Technical Records Specialist

EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) The petition for reconsideration is disposed of; or
- (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 63-09368

RECEIVED

MAY 19 2015

DEPARTMENT OF
WATER RESOURCES

Date of Priority: April 17, 1980

Maximum Diversion Rate: 11.74 CFS

Comes now REYNOLDS IRRIGATION DISTRICT
PO BOX 12
MELBA ID 83641 and represents to the Director of the Idaho Department
of Water Resources that he is the owner and holder of Permit to Appropriate the Public Waters of the
State of Idaho No. 63-09368, and requests that the permit be changed as follows:

Source: GROUND WATER

Tributary: WARM SPRINGS CREEK

BENEFICIAL USE

POWER

PERIOD OF USE

01/01 to 12/31

RATE OF DIVERSION

11.74 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	SE1/4SE1/4 Sec. 3, Twp 01S, Rge 02W, B.M.	CANYON County
GROUND WATER	SE1/4SE1/4 Sec. 3, Twp 01S, Rge 02W, B.M.	CANYON County
GROUND WATER	SE1/4SE1/4 Sec. 3, Twp 01S, Rge 02W, B.M.	CANYON County

PLACE OF USE: POWER

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S 02W 17		X															

Permit holder asserts that no one will be injured by such change and that such change will be made at
permit holder's own risk. Signed this 15 day of May, 20 15.


(Signature)

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 63-09368

FOR DEPARTMENT USE ONLY
Preliminary check by Jul Fee = 100.00 Received by SAB # C100472 Date 5/19/2015

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, GARY SPACKMAN, of the Department of Water Resources hereby approve the
above Application for Amendment for Permit No. 63-09368 with the following:

CONDITIONS OF APPROVAL

1. The rights for the use of water confirmed in this license shall be junior and subordinate to all rights for the use of water other than hydropower, within the State of Idaho that are initiated later in time than the priority of this right and shall not give rise to any right or claim against any future rights for the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this right.
2. This right does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.
3. The term of this water right license shall run concurrently with energy sales agreement IPUC Case Number U-1006-224, Order Number 19794 approved by the Idaho Public Utilities Commission, which expires on April 1, 2020. Prior to the expiration of the term, the Director may issue an order canceling all or any part of the use authorized herein, may establish a new term, or may revise, delete, or add conditions under which the water right license may be exercised. The order shall take effect on the date the current term expires. If the Director does not issue such an order, the term shall automatically extend to a length equal to the prior term and any prior conditions on the water right license shall remain in effect.
4. Use of water under this right shall be non-consumptive.
5. The following right is diverted through point(s) of diversion described above: 63-359.
6. This right does not grant any right-of-way or easement across the land of another.

Witness my hand this 27th day of May, 2015.

Shelley W. Keen
for GARY SPACKMAN
Director



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

March 13, 2015

REYNOLDS IRRIGATION DISTRICT
PO BOX 12
MELBA ID 83641

RE: Water Right Permit No. 63-09368

Dear Permit Holder(s):

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

☒ **Point(s) of Diversion**

☐ **Place(s) of Use**

☐ **Other**

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at 287-4946.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michele Edl'.

Michele Edl (E.I.T.)

Enclosure(s)

Edl, Michele

From: Jerry Hoagland [shrjhwhy@gmail.com]
Sent: Tuesday, January 13, 2015 9:32 PM
To: Dean & Amy Young; Lou Sanchez; Brad Huff; Edl, Michele
Subject: Fwd: Release of name of Spokane Bank for Cooperatives on water right.
Attachments: Scanned from a Xerox multifunction device.pdf

----- Forwarded message -----

From: Alvarado, Cynthia <AlvaradC@cobank.com>
Date: Tuesday, January 13, 2015
Subject: Release of name of Spokane Bank for Cooperatives on water right.
To: "shrjhwhy@gmail.com" <shrjhwhy@gmail.com>
Cc: "Maikoetter, Mary" <MMaikoetter@cobank.com>, "Gulinson, Susan" <sgulinson@cobank.com>, "Horton, Gary" <GHorton@cobank.com>, "Koerselman, Jennifer" <JKoerselman@cobank.com>

Dear Mr. Hoagland: Thank you for the email.

CoBank would be glad to complete the Assignment of Permit form. Please confirm that you are looking for an Assignment of Permit regarding Permit No. 63-9368 and I will complete the Assignment and have it executed and sent to your attention.

I have attached a copy of the Assignment of Permit by Reynolds Irrigation District in 1985 . Thank you.

Cynthia Alvarado

Collateral Administration – Legal & Loan Processing Division

Direct: 303-694-5856 | Fax: 720.528.6258

cilvarado@cobank.com

From: Jerry Hoagland [mailto:shrjhwhy@gmail.com]
Sent: Tuesday, January 13, 2015 9:36 AM
To: CASH
Cc: Michele.Edl@dwr.idaho.gov; Brad Huff; Dean & Amy Young; Lou Sanchez
Subject: Re: Release of name of Spokane Bank for Cooperatives on water right.

Dear CoBank,

Reynolds Irrigation District had sent a request on December 29th 2014 for CoBank to do an "Assignment of Permit " from Spokane Bank for Cooperatives to Reynolds Irrigation District. I have not heard from CoBank as to whether they are willing or not to do the "Assignment". There are other methods of transfer available, but are more difficult. Your release would smooth the process. I ask for your consideration of this "Assignment" to facilitate the process. I would greatly appreciate a response.

Thank you,

Jerry Hoagland, chairman

Reynolds Irrigation District

P.O. Box 12

Melba, ID 83641

(208)318-8308

On Monday, December 29, 2014, Jerry Hoagland <shrjhwhy@gmail.com> wrote:

Cash at CoBank,

Reynolds Irrigation District had a loan with one of your former banks, Spokane Bank for Cooperatives and later CoBank. At the time of the loan, Spokane Bank required the water rights of Reynolds Irrigation District be placed in the name of the Bank as collateral. The loan was paid off in February 2004, and the E stock was returned in February 2005. The customer Number was 22166885.

Idaho Department of Water Resources is finalizing the permit for water right and needs to place the name correctly for the right. We are asking that CoBank to do an Assignment of Permit from Spokane Bank for Cooperatives to Reynolds Irrigation District. This permit is available at:

<http://IDWR.idaho.gov/RulesStatutesForms/WaterRights/WaterRightForms.htm>

If you have further questions, call 208-318-8308 or email to: shrjhwhy@gmail.com.

Thank you,

Jerry Hoagland, chairman

Reynolds Irrigation District

P.O. Box 12

Melba, ID 83641

(208)318-8308

Unless specifically stated, (i) this email does not create a legal relationship between CoBank, ACB, including its subsidiaries and affiliates (collectively "CoBank") and the recipient, and (ii) CoBank disclaims any liability for the content of this email or for the consequences of any actions taken on the basis of the information provided in this email or its attachments. This email is intended solely for the use of the intended recipient(s) and may contain information that is confidential, privileged or otherwise protected from disclosure. If you are not the intended recipient of this email, please notify the sender, and delete it from your system. In communicating via email with CoBank, you consent to the foregoing.

CoBank, 5500 S. Quebec Street, Greenwood Village, CO 80111 www.cobank.com

Edl, Michele

From: Jerry Hoagland [shrjhwhy@gmail.com]
Sent: Tuesday, January 13, 2015 9:36 AM
To: cash@cobank.com
Cc: Edl, Michele; Brad Huff; Dean & Amy Young; Lou Sanchez
Subject: Re: Release of name of Spokane Bank for Cooperatives on water right.

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Thank you,

Jerry Hoagland, chairman
Reynolds Irrigation District
P.O. Box 12
Melba, ID 83641
(208)318-8308

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Thank you,

Jerry Hoagland, chairman
Reynolds Irrigation District
P.O. Box 12
Melba, ID 83641
(208)318-8308

Edl, Michele

From: Jerry Hoagland [shrjhwhy@gmail.com]
Sent: Monday, December 29, 2014 2:30 PM
To: cash@cobank.com
Cc: Edl, Michele; Brad Huff; Dean & Amy Young; Lou Sanchez
Subject: Release of name of Spokane Bank for Cooperatives on water right.

Cash at CoBank,

Reynolds Irrigation District had a loan with one of your former banks, Spokane Bank for Cooperatives and later CoBank. At the time of the loan, Spokane Bank required the water rights of Reynolds Irrigation District be placed in the name of the Bank as collateral. The loan was paid off in February 2004, and the E stock was returned in February 2005. The customer Number was 22166885.

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<http://IDWR.idaho.gov/RulesStatutesForms/WaterRights/WaterRightForms.htm>

If you have further questions, call 208-318-8308 or email to: shrjhwhy@gmail.com.

Thank you,

Jerry Hoagland, chairman
Reynolds Irrigation District
P.O. Box 12
Melba, ID 83641
(208)318-8308

Edl, Michele

From: Edl, Michele
Sent: Friday, December 26, 2014 3:20 PM
To: 'shrj@juno.com'
Subject: amendment of and assignment of permit 63-9368
Attachments: 63-9368 Amendmt Ltr2.docx

Mr. Hoagland,

I hope that you are enjoying the holidays.

As you know, I am trying to get the license issued for permit 63-9368 and I have not been able to do so. Based on our brief phone conversation of December 23, 2014, I understand that you have a preference for how you would like to proceed. You would like to get Spokane Bank of Cooperatives to assign the permit back to Reynolds Irrigation District. I have not been successful connecting with the bank. You stated that you usually did business with a Denver office and would forward the contact information to me. I have not yet received that information from you.

I would really like to finalize the processing of water right 63-9368 because Reynolds Irrigation District needs an additional permit to cover the full rate used by the powerhouse. Confirming your authorized rate and sources will also clarify the requirements that must be satisfied by a new permit.

Therefore, I have attached an early bird copy of a letter which will leave this office on Monday, December 29, 2014. We have a couple routes we could go to complete the processing of this right. In your preferred route, you will be successful connecting with the bank. In that case, you will need to send them the Assignment of Permit form. The form is also available on our website at <http://idwr.idaho.gov/RulesStatutesForms/WaterRights/WaterRightForms.htm>

If you are not successful connecting with the bank, IDWR can complete the licensing process if you will review and sign the Amendment of Permit form and submit it with the fee.

The permit must be amended before IDWR can issue a license. Either the bank gives the ok and pays for the amendment or the irrigation district does.

I will be out of the office Monday and Tuesday, December 29-30. But don't hesitate to call me or email me. The electronics will take a message either way. I will respond as soon as possible after my return.

Sincerely,
Michele Edl



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

December 29, 2014

ATTN: JERRY HOAGLAND
REYNOLDS IRRIGATION DISTRICT
PO BOX 12
MELBA ID 83641

RE: Water Right Permit No. 63-09368

Dear Mr. Hoagland:

I am writing to you about Water Right Permit 63-9368, which was originally issued to Reynolds Irrigation District on January 5, 1984. On October 29, 1985, the permit was assigned to Spokane Bank for Cooperatives.

The permit is being reviewed for licensing. Before a water right license can be issued, however, the permit must be amended to depict the water right as it has actually been developed. I have sent an Application for Amendment form to Spokane Bank for Cooperatives, but the post office has returned the mail as undeliverable. Because the Canyon County assessor indicated that Reynolds Irrigation District may now own the property on which the water development occurred, I am writing to give you the opportunity to complete the process necessary to obtain a water right license.

The enclosed Application for Amendment contains information that will be included on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, sign the form and return it with the \$100.00 filing fee as soon as possible.

Because water appropriation permits are considered personal property, in order for the department to issue the water right license in the name of Reynolds Irrigation District, Spokane Bank for Cooperatives must assign the permit to you. I have enclosed an Assignment of Permit form to help you obtain the required information and signatures. The fee for filing an assignment is \$25.00 per water right.

If you do not obtain an assignment from Spokane Bank for Cooperatives, the department may still issue a license if you submit the Application for Amendment and the \$100.00 fee. The license will be issued in the name of Spokane Bank for Cooperatives. However, once the license is issued, the water right becomes appurtenant to the property regardless of the name listed on the document.

If you have any questions about this information, please contact me at (208) 287-4946.

Sincerely,

Michele Edl (E.I.T.)
Senior Water Resources Agent

Enclosure(s)

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

320 East Front Street, P.O. Box 83720
Boise, Idaho 83720-0098

PRESORTED
FIRST CLASS



U.S. POSTAGE >> PITNEY BOWES



ZIP 83702 \$ 000.38¹
02 1W
0001393370 DEC 10 2014

RECEIVED

DEC 23 2014

DEPARTMENT OF
WATER RESOURCES

SPOKANE BANK FOR COOPERATIVES
PO BOX TAF-C2
STAR RT
SPOKANE WA 99220

NIXIE 992 DE 1260 0012/20/14

RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

BC: 837200098 *1014-01190-11-34

8372000098

Edl, Michele

Subject: FW: 63-9368 status

This email is a response to my phone call to Mr. Hoagland about this permit.

-----Original Message-----

From: Jerry Hoagland [<mailto:shrj@juno.com>]

Sent: Saturday, November 16, 2013 1:53 PM

To: Edl, Michele

Subject: Re: 63-9368 status

Michele,

I happened to be at the right place and time to get that scanned. Your welcome.

As to the Spokane Bank for Cooperatives, Reynolds Irrigation District had a loan for financing the hydro project. The Bank retained the water right as collateral. That loan has been paid in full in about 2002. The District sent correspondence to the Bank requesting the water right be transferred back to Reynolds Irrigation. Obviously, that has not happened. I will re-address that issue with the Bank.

The points of diversion were where the water was collected into our system. That was supposed to be the same as the irrigation rights that Reynolds Irrigation has from the same sources. That may be different than where Dan identified, and his may also be needed as specific sources. I'll review those rights and this permit application.

Our official address is: Reynolds Irrigation District, P.O. Box 12, Melba, ID 83641

I am still working on the FERC report.

Thank you for your help,

Jerry

Edl, Michele

Subject: FW: Reynolds Irr Dist.
Attachments: Temp00158.PDF

The attachment is a copy of an engineering drawing of the turbine.
WR 63-9368

From: Brenda Stimpson [<mailto:BStimpson@co.owyhee.id.us>]
Sent: Tuesday, November 12, 2013 1:19 PM
To: Edl, Michele
Subject: Reynolds Irr Dist.

Please see attachment

Sincerely,
Brenda Stimpson
Owyhee County Assessors Office
Murphy, Idaho 83650
(208) 495-2817 Office
(208) 495-1483 Fax

already PDF
Darla,
When you're
ready, I can
forward this
to you on 6

Edl, Michele

Subject: FW: reynolds Irrigation District water permit
Attachments: Reynoldsd March 2008 Measurements.doc; Reynolds October 2008 Measurements.doc;
Reynolds 2008 Energy Estimate.doc; Reynolds Hydro Daily Discharge 2-12-10 to 5-12-10.pdf

This email provides attachments which represent work done by ERO to quantify the water used by the Reynolds Irrigation District's powerhouse.

From: Jerry Hoagland [<mailto:shrij@juno.com>]
Sent: Wednesday, October 23, 2013 10:35 PM
To: Nelson, Dan
Subject: reynolds Irrigation District water permit

Dan or Michell,

Attached are some of the reports I have at this time. We are still compiling the KW production history. We have it up to 2001, and need to research for the rest to date. I still need to get more readings from ERO for the flow meter in addition to those of the 4th attachment. Then as in one of the attachments from ERO, Dave has a comparison of flows to KW production. Please note that the runner in the turbine is significantly not as efficient as when first installed, as we are finding in our current production. I am still looking for more specs on the turbine as Dan has requested. Sorry about the delay, as this has been a hectic fall. Will get the rest of the request as a priority.

I have an all day commitment tomorrow and will return Michell's call Friday.
Jerry Hoagland

**REYNOLDS IRRIGATION DISTRICT
HYDRO PLANT WATER SUPPLY MEASUREMENTS
PROJECT NUMBER: 21415119**

Introduction

The water supply measurements described below were made in response to Idaho Power's letter requests dated June 21, 2007 and January 16, 2008. These water supply measurements were made as proposed in the February 22, 2008 letter from ERO Resources on behalf of Reynolds Irrigation District.

Also, as proposed in the February 22, 2008 letter, additional flow measurements are scheduled for this fall during what is normally the high flow period of the year. Those measurements will be reported when they become available.

Finally, a measuring device will be selected and installed in the Reynolds Irrigation District supply canal upstream from the penstock to the powerhouse. The type and location of that gage are being investigated to be certain the instrument and location selected provide accurate and reliable data.

Measurements

The measurements identified below were made on March 26, 2008 using standard open channel flow measuring procedures for wading measurements using AA and pygmy type flow meters. Figure 1 shows the locations of the measurements and observations made this year. The numbering system is the same as that used in 1980 and 1981 when Mr. Chapman made the initial water supply analysis.

Not all of the locations measured by Mr. Chapman were measured in 2008 since some of the earlier measurements appear to have been made to better characterize the nature of the water source rather than just identifying the water supply for Reynolds Irrigation District. The measurements made in 2008 are sufficient to capture the water supply available to the District. Additional measurements may be required in the fall if conditions warrant. A measurement was made in the flume supplying water to the Reynolds Irrigation District penstock. Mr. Chapman

Reynolds March 2008 Measurements.doc
(WR 63-9368)

did not make an equivalent measurement in 1980 or 1981; however, there is measurement data available at least in 1987.

Table 1 compares the March 2008 measurements with the prior measurements by Mr. Chapman.

Table 1

Measurement Number	Measurement Date and Amount (cfs)			Current Comments
	10/23/1980	3/28/1981	3/26/2008	
9	7.72	7.66	Dry	
10	1.29	2.43	4.57	15' Above Culvert
11	7.09	8.71	10.6	10' Below Lower Well
12	10.70	8.03	27.1	15' Below Headgate
13	5.98	13.21	1.03	30' Below Culvert
15	0.82	1.13	Dry	
16	7.64	4.68	0.02	20' Above Culvert @ Hwy
17	34.53	28.47	3.40	60' Above Culvert @ Hwy
Flume	-	-	28.5	10' Above Staff Gage

Mr. Chapman describes the water supply available in March 1981 as 31.63 cfs on page 4 of his report and on page 5 describes the normal winter water supply as 43.08 cfs. The water supply today is notably less than described by Mr. Chapman in 1981.

The above measurements will be supplemented this fall during what is anticipated to be the high flow period. A recording measuring device will be selected and installed in the water supply to the irrigation district penstock in the near future.

REYNOLDS IRRIGATION DISTRICT
2008 ESTIMATED ENERGY PRODUCTION BASED ON AVAILABLE WATER SUPPLY
PROJECT NUMBER: 21415119

Introduction

On June 10, 2009 a Starflow Ultrasonic Doppler Open Channel Flow Recorder was installed in the concrete flume section just upstream from the trashrack on the penstock for the Reynolds Irrigation District hydro plant. At this location the flow recorder measures only the water entering the penstock and the record does not need to be adjusted for water use by others. The flow recorder measures both water depth and velocity since water depth is not an indicator of water flow at this location. By measuring depth and velocity total water flow can be calculated. The flow recorder was calibrated against current meter measurements taken on June 11 and October 29, 2009.

The remainder of this report explains the development of a water and power relationship that can be used to estimate the power and energy production that would have been available in 2008. During 2008, two water measurements were taken, one in March and the second in October. Those measurements and the water and power relationship will be used to estimate the power and energy production potential for Reynolds Irrigation District in 2008.

Analysis

The Starflow Recorder takes measurements of depth and velocity at 15 minute intervals. These data are then compiled into mean daily discharge amounts reflecting the water entering the hydro plant penstock. The analysis was completed using data for the period June 10 through September 22, 2009. During this time mean daily discharge into the hydro plant ranged from 38.5 cfs to 19.9 cfs and averaged 31.5 cfs.

Power output is measured and recorded manually from gages at the generator location. Amperage and kilowatts are read from gages and recorded on data sheets along with time in operation from an hour meter. Readings are frequently collected twice per day but sometimes are collected only once per day and occasionally readings for a day are not collected. These data were then compiled to estimate mean daily values of amperage and kilowatts for those days when the gages were read and

recorded. The hour meter data were not used in compiling mean daily values of amperage and kilowatts.

The relationships of amperage, kilowatts and KVA per cfs were then compared over time as shown in Figure 1. Initially just amperage and kilowatts were compared to flow; however, the relationship between flow and kilowatts was unexpected and could be the result of a faulty kilowatt gage. KVA was then added to the analysis as an alternative to kilowatts.

Figures 2 and 3 are plots of kilowatts v flow in cfs and KVA v flow in cfs, respectively. These figures were prepared to establish relationships between flow and power as measured by the kilowatt meter or the amperage meter, converted to KVA, assuming the generator runs at its rated 480 volts of output. These relationships were then applied to the total flow for July and August 2009 and the energy production for each month was calculated based upon the formulae shown on the figures and assuming the generator operated 24 hours per day.

The calculated energy production for each month was compared to the gross energy production from the monthly Calculation of Capacity and Energy Payment to Reynolds Irrigation District from Idaho Power Company. Use of the KVA v flow in cfs relationship produced a better result than use of the kilowatt v flow relationship as expected. The KVA v flow relationship was then calibrated to the July and August gross energy determinations by Idaho Power Company and resulted in the following relationship:

$$KWH = (4.527 \times Q + 26.354) \times 24 \quad \text{Eq. (1)}$$

Where: KWH = kilowatt hours
Q = mean daily water flow in cubic feet per second (cfs)

Flow measurements of the water entering the hydro plant penstock were taken on March 26 and October 29, 2008. The amounts of water measured were 28.5 cfs and 31.5 cfs, respectively. The mean daily discharge for 2008 will be assumed to be the average of the two measurements or 30 cfs.

Results

Applying Eq. (1) to the assumed average mean daily discharge of 30 cfs for 2008 the estimated gross energy in 2008 based upon water supply would be:

$$KWH = (4.527 \times 30 + 26.354) \times (24 \times 365) = 1,420,557 \text{ KWH}$$

The actual energy production for 2008 based upon the Idaho Power Company payment sheets was 1,120,960 KWH or about 27% less than the estimate based solely upon the March and October flow measurements. The most likely cause of the difference is the March and October 2008 measurements probably did not represent the average flow for 2008. This belief is based upon the June through October flow measurements recorded in 2009.

Figure 4 shows the mean daily water supply available for the hydro plant for the period June 10 through November 4, 2009. Figure 4 shows widely varying mean daily flow available to the hydro plant without a general trend of increasing flow from March to October. While Eq. (1) should be a reasonable estimate of energy production when mean daily flow measurements are available on a daily basis it is probably of little value when trying to estimate energy production for a year based upon two measurements covering a period of about one-half hour each from one day in March and one day in October 2008.

Figure 1
Reynolds ID - Q v Power

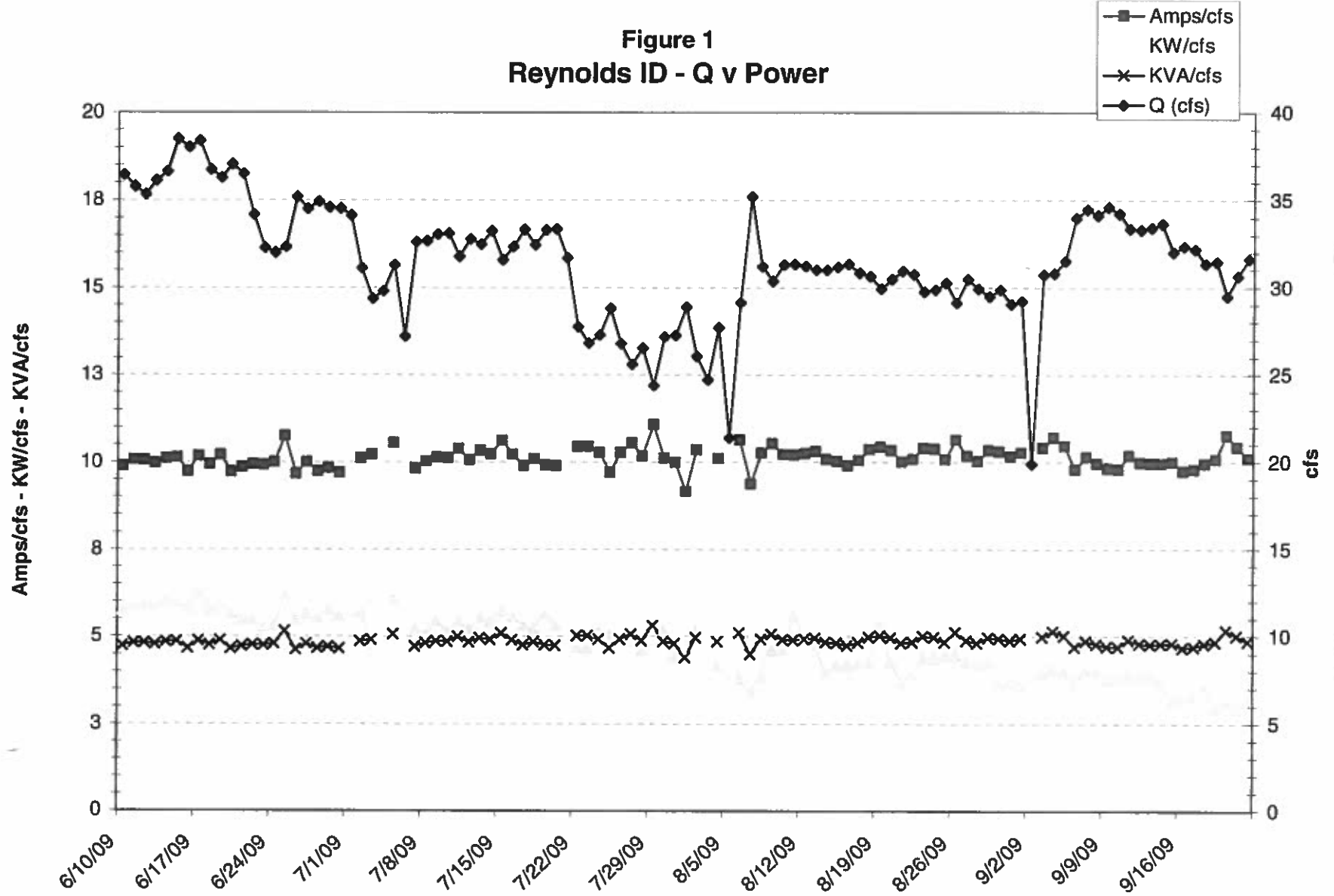


Figure 2
Reynolds ID - KW v Q

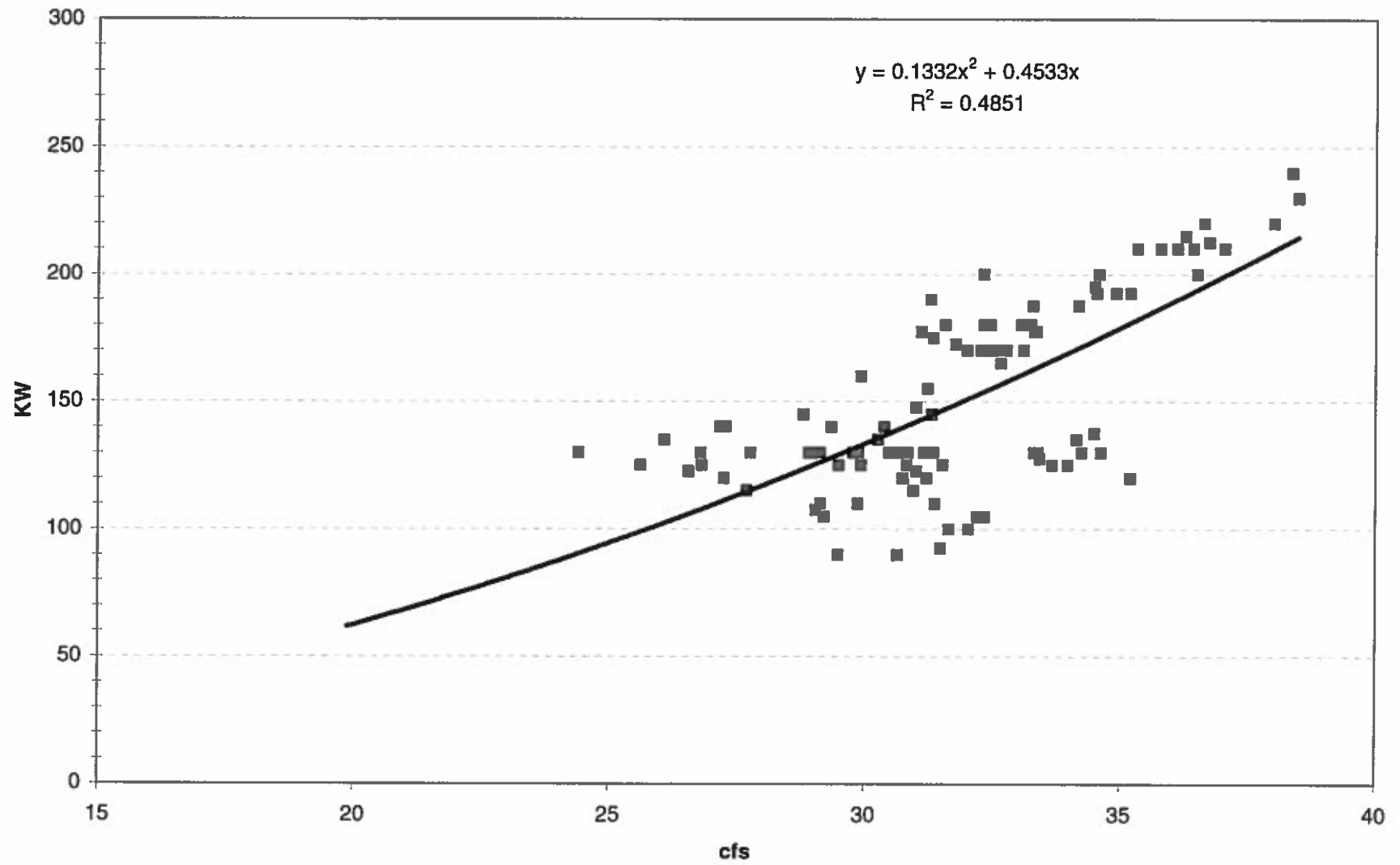


Figure 3
Reynolds ID - KVA v Q

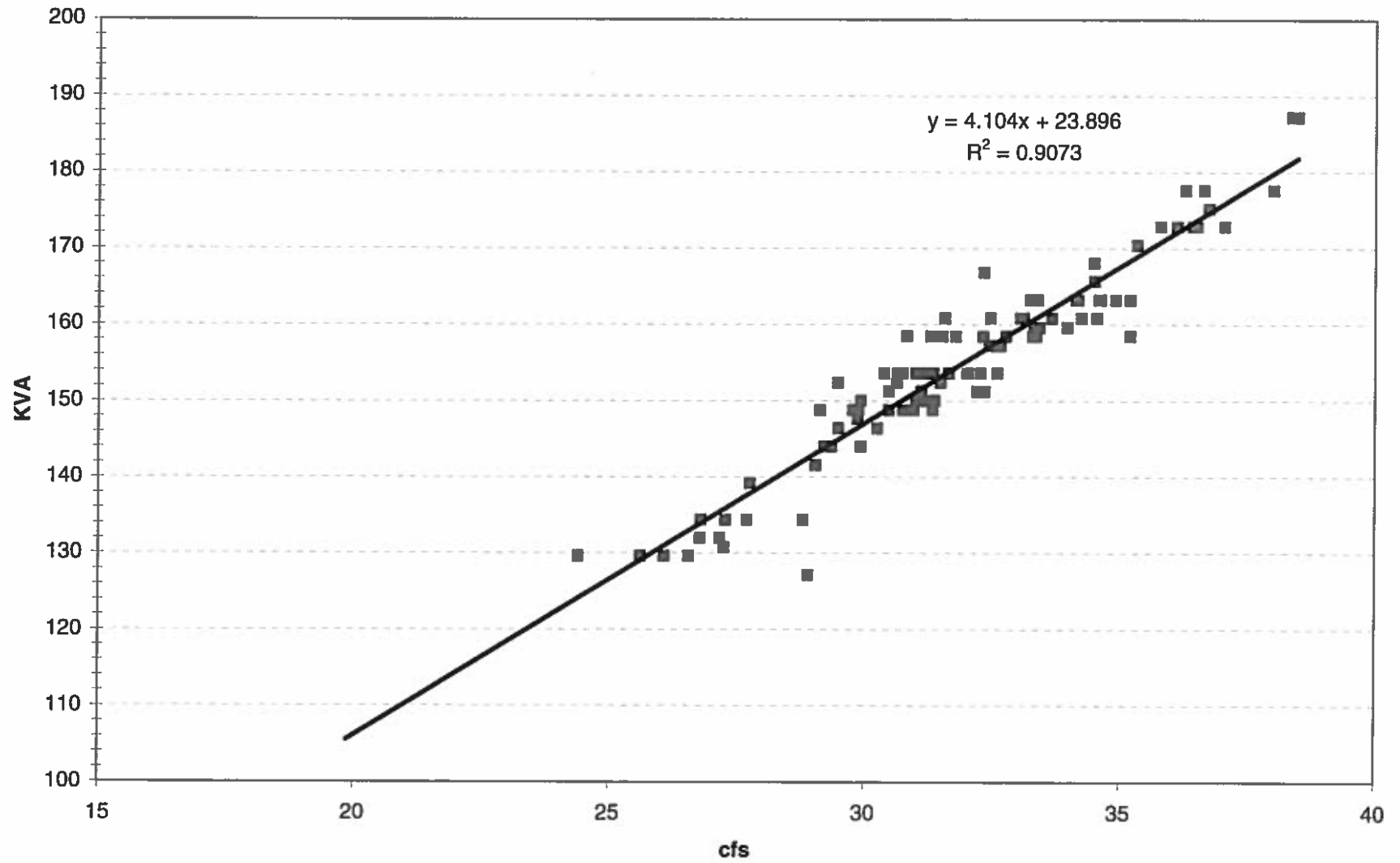
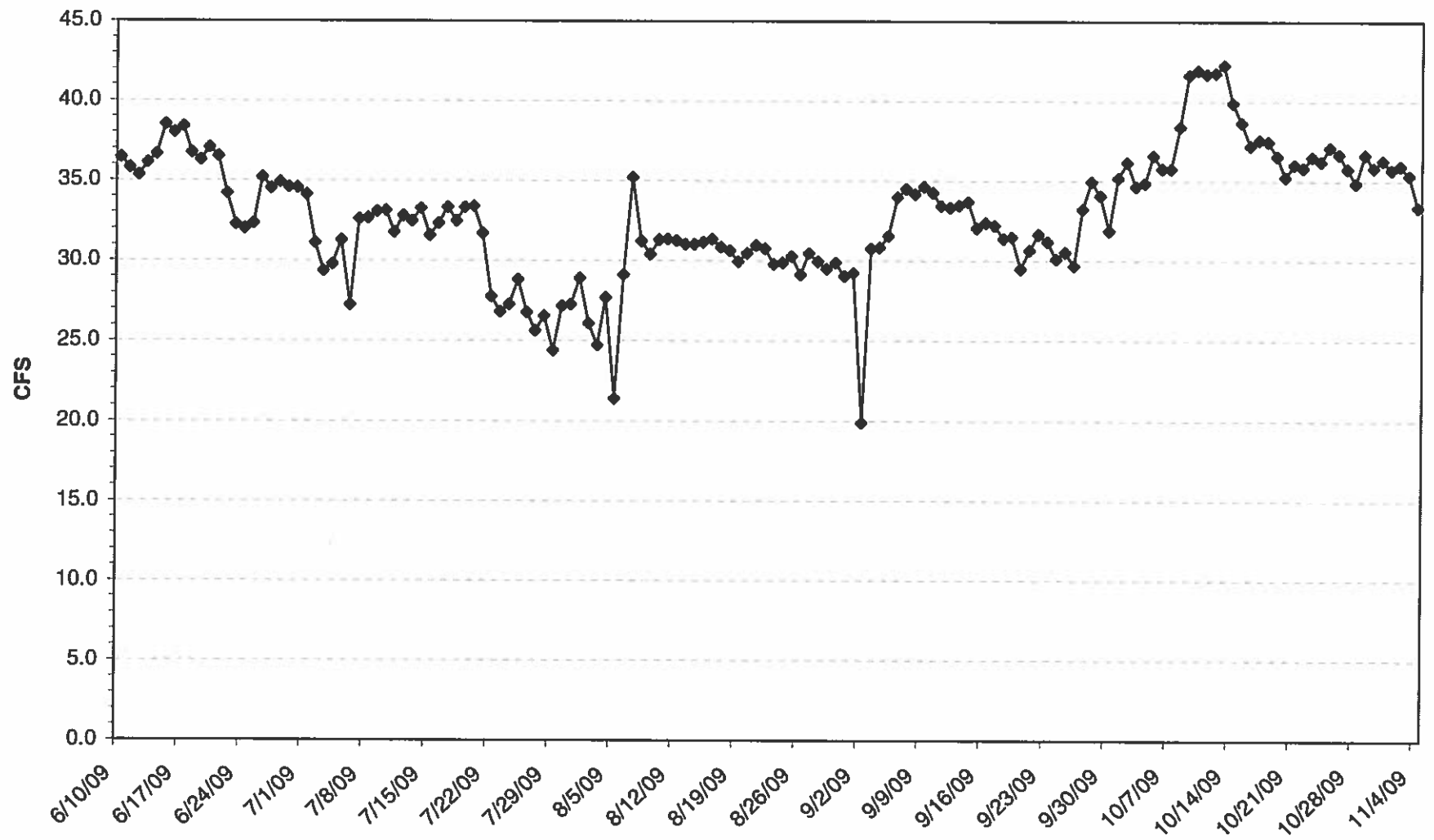


Figure 4
Reynolds Hydro Inflow



Reynolds Irrigation District Daily Discharge in CFS
Mean Daily Discharge for the Period Midnight to Midnight

Mean Daily Q - cfs

Date	cfs	
2/12/2010	34.1	highest
2/13/2010	33.9	
2/14/2010	33.5	
2/15/2010	33.5	
2/16/2010	33.7	
2/17/2010	33.5	
2/18/2010	33.6	
2/19/2010	33.4	
2/20/2010	33.0	
2/21/2010	33.6	
2/22/2010	32.1	
2/23/2010	32.0	
2/24/2010	32.9	
2/25/2010	32.4	
2/26/2010	32.1	
2/27/2010	32.5	
2/28/2010	32.0	
3/1/2010	31.8	
3/2/2010	31.9	
3/3/2010	32.4	
3/4/2010	31.9	
3/5/2010	31.7	
3/6/2010	31.7	
3/7/2010	30.8	
3/8/2010	30.4	
3/9/2010	29.8	
3/10/2010	30.2	
3/11/2010	31.1	
3/12/2010	29.8	
3/13/2010	26.8	
3/14/2010	28.2	
3/15/2010	29.4	
3/16/2010	24.7	
3/17/2010	30.6	
3/18/2010	24.9	
3/19/2010	27.5	
3/20/2010	27.9	
3/21/2010	25.5	
3/22/2010	20.3	
3/23/2010	20.5	
3/24/2010	19.9	
3/25/2010	27.4	
3/26/2010	31.1	
3/27/2010	32.9	
3/28/2010	32.8	

Reynolds Hydro Daily Discharge 2-12-10 to 5-12-10.pdf
(WR 63-9368)

Reynolds Irrigation District Daily Discharge in CFS
Mean Daily Discharge for the Period Midnight to Midnight

Mean Daily Q - cfs
Date cfs

3/29/2010	32.7
3/30/2010	33.8
3/31/2010	32.9
4/1/2010	32.4
4/2/2010	30.6
4/3/2010	29.0
4/4/2010	28.5
4/5/2010	28.2
4/6/2010	28.5
4/7/2010	30.1
4/8/2010	28.7
4/9/2010	29.9
4/10/2010	29.6
4/11/2010	29.1
4/12/2010	29.7
4/13/2010	27.2
4/14/2010	22.3
4/15/2010	21.1
4/16/2010	21.6
4/17/2010	21.5
4/18/2010	21.9
4/19/2010	22.0
4/20/2010	20.9
4/21/2010	21.4
4/22/2010	19.0
4/23/2010	20.0
4/24/2010	22.1
4/25/2010	22.2
4/26/2010	23.2
4/27/2010	21.6
4/28/2010	21.4
4/29/2010	21.0
4/30/2010	21.5
5/1/2010	22.1
5/2/2010	22.2
5/3/2010	19.5
5/4/2010	1.9
5/5/2010	12.6
5/6/2010	19.2
5/7/2010	20.4
5/8/2010	20.0
5/9/2010	19.7
5/10/2010	22.0
5/11/2010	16.4
5/12/2010	18.4

Reynolds Irrigation District Daily Discharge in CFS
Mean Daily Discharge for the Period Midnight to Midnight

Mean Daily Q - cfs

Date	cfs
5/13/2010	21.2
5/14/2010	21.3
5/15/2010	21.1
5/16/2010	21.1
5/17/2010	21.0

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HYDRO PLANT WATER SUPPLY MEASUREMENTS
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Introduction

The water supply measurements described below were made in response to Idaho Power's letter requests dated June 21, 2007 and January 16, 2008. These water supply measurements were made as proposed in the February 22, 2008 letter from ERO Resources on behalf of Reynolds Irrigation District.

Also, as proposed in the February 22, 2008 letter, additional flow measurements were taken on October 29, 2008. This report contains a compilation of the original measurements taken by Mr. Chapman in the early 80s and 2 sets of measurements taken in 2008.

Finally, a measuring device is being researched that can be installed in the Reynolds Irrigation District supply canal upstream from the penstock to the powerhouse. The type and location of that gage are being investigated to be certain the instrument and location selected provide accurate and reliable data. A gage selection and installation should be completed in the near future.

Measurements

The additional measurements identified below were made on October 29, 2008 using standard open channel flow measuring procedures for wading measurements using AA and pygmy type flow meters. Figure 1 shows the locations of the measurements and observations made this year. The numbering system is the same as that used in 1980 and 1981 when Mr. Chapman made the initial water supply analysis.

Not all of the locations measured by Mr. Chapman were measured in 2008 since some of the earlier measurements appear to have been made to better characterize the nature of the water source rather than just identifying the water supply for Reynolds Irrigation District. The measurements made in 2008 are sufficient to capture the water supply available to the District. An additional measurement, 16A, was made in October 2008 for ease of access. A measurement was made in the flume supplying water to the Reynolds Irrigation District penstock. Mr.

*Reynolds October 2008 Measurements.doc
(WR 43-9368)*

Chapman did not make an equivalent measurement in 1980 or 1981; however, there is measurement data available at least in 1987.

Table 1 compares the 2008 measurements with the prior measurements by Mr. Chapman.

Table 1

Measurement Number	Measurement Date and Amount (cfs)				Current Comments
	10/23/1980	3/28/1981	3/26/2008	10/29/2008	
9	7.72	7.66	Dry	Dry	
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11	7.09	8.71	10.6	6.51	5' Below Lower Well
12	10.70	8.03	27.1	27.6	15' Below Headgate
13	5.98	13.21	1.03	Est <0.5	Could not access measuring site
15	0.82	1.13	Dry	Dry	
16	7.64	4.68	0.02	4.45	5' Above Culvert @ Hwy
16A				Est <0.2	Grouch Drain Diversion
17	34.53	28.47	3.40	2.46	40' Above Culvert @ Hwy
Flume	-	-	28.5	31.5	40' Above End of Concrete Flume

Mr. Chapman describes the water supply available in March 1981 as 31.63 cfs on page 4 of his report and on page 5 describes the normal winter water supply as 43.08 cfs. The high water supply today is similar to the low water supply measured by Mr. Chapman and the low water supply is notably less than described by Mr. Chapman in 1981.