

HAND DELIVERED TO DYNNAN LAW FIRM
FOR ANDY WALDIERA ON 9-28-09.

**IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS**

In Re SRBA	)	Subcase No. 63-21713
	)	
Case No. 39576	)	
	)	STANDARD FORM 5
	)	
	)	STIPULATED ELEMENTS OF A
	)	WATER RIGHT

This form is used to report the stipulated elements of one water right acquired under state law and/or one federal reserved water right. Submission of this form will not automatically result in the issuance of a partial decree. The Presiding Judge or Special Master will conduct any hearing necessary to determine whether the facts, data, expert opinions and law support the issuance of a partial decree for the water right.

The parties agree that the Snake River Basin Adjudication Court has jurisdiction of the parties and subject matter to enter a partial decree for this water right; that they have been served with sufficient process, according to the law; and that they have appeared, prosecuted, and defended their positions with regard to this water right dispute.

The parties and IDWR agree and stipulate that the elements of this water right should be described per the attached. The parties and IDWR have further indicated their concurrence by initialing each of the attached pages.

CLAIMANT/OBJECTOR:

Pioneer Irrigation District

RESPONDENT:

Bureau of Reclamation

Scott L. Campbell Date
Attorney for Claimant/Objector

David W. Gehlert Date
Attorney for Respondent

STANDARD FORM 5 – 63-21713

IDWR Concurrency:

Jan Shurte 9-23-09
Jan Shurte Date
Water Rights Supervisor


Nicholas B. Spencer Date 9-21-09
Deputy Attorney General
Attorney for IDWR

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-21713

NAME AND ADDRESS: PIONEER IRRIGATION DISTRICT
PO BOX 426
CALDWELL ID 83606 83605

SOURCE: PIPE GULCH DRAW CREEK

TRIBUTARY: BOISE RIVER

QUANTITY: 15.000 CFS ~~11.2 CFS~~

PRIORITY DATE: 04/01/1913

POINT OF DIVERSION:

T04N R04W S27 NWNW Within CANYON County

PURPOSE AND
PERIOD OF USE:PURPOSE OF USEPERIOD OF USEQUANTITY

IRRIGATION

03/01 11/15

15.000 CFS ~~11.2 CFS~~

PLACE OF USE:

34204.61 ACRES TOTAL

This right is limited to the irrigation of 34,204.61 acres within the boundary of the Pioneer Irrigation District.

The boundary encompassing the place of use for this water right is described with a digital boundary as defined by I.C. Section 42-202B(2) and authorized pursuant to I.C. Section 42-1411(2)(h). The data comprising the digital boundary are incorporated herein by reference and are stored on a CD-ROM disk issued in duplicate originals on file with the SRBA District Court and the Idaho Department of Water Resources. A map depicting the place of use is attached hereto to illustrate the place of use described by the digital boundary.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

CERTIFICATE OF MAILING

I certify that on _____, 2009, I mailed the original and copies of this form, including all attachments, to the following persons by mailing the original and/or copies, postage prepaid and addressed as follows:

1. Original to:

CLERK OF THE DISTRICT COURT
SNAKE RIVER BASIN ADJUDICATION
253 THIRD AVENUE NORTH
P.O. BOX 2707
TWIN FALLS, IDAHO 83303-2707

2. Copies to:

PIONEER IRRIGATION DISTRICT
Represented by:
SCOTT L. CAMPBELL
101 S. CAPITOL BLVD. 10TH FLOOR
P.O. BOX 829
BOISE, ID 83701-0829

DIRECTOR OF IDWR
P.O. BOX 83720
BOISE, ID 83720-0098

USDI BUREAU OF RECLAMATION
Represented by:
US DEPARTMENT OF JUSTICE
ENVIRONMENT & NATURAL RESOURCES
550 WEST FORT STREET, MSC 033
BOISE, ID 83724

Signature of person or attorney mailing the form

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-21713

NAME AND ADDRESS: PIONEER IRRIGATION DISTRICT
PO BOX 426
CALDWELL ID 83606 ~~83605~~

SOURCE: PIPE GULCH DRAW CREEK

TRIBUTARY: BOISE RIVER

QUANTITY: 15.000 CFS ~~11.2 CFS~~

PRIORITY DATE: 04/01/1913

POINT OF DIVERSION:

T04N R04W S27 NWNW Within CANYON County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	03/01 11/15	<u>15.000 CFS</u> ~~11.2 CFS~~

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EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

Sent to
SO 9-17-09

SFS

12/13/2006

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-21713

NAME AND ADDRESS: PIONEER IRRIGATION DISTRICT
PO BOX 426
CALDWELL ID ~~83605~~ 83606

SOURCE: PIPE GULCH DRAW CREEK TRIBUTARY: BOISE RIVER

QUANTITY: ~~11.200~~ CFS 15 CFS

PRIORITY DATE: 04/01/1913

POINT OF DIVERSION:
T04N R04W S27 NWNW Within CANYON County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	03/01 11/15	~~11.200~~ CFS 15 CFS

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EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

From: Shurte, Jan

Sent: Tuesday, September 08, 2009 2:46 PM

To: Spencer, Nick; Williams, Ray; Harris, Lori

Subject: Pioneer ID Updates

This is an update (on the info I have) for Pioneer's. Don't quote me on this, it's just to follow along. Andy should have the updates on these for the conference. If not, here's my best take from all my notes.

63-5199 – Received ERO's measurement copy on 9/2/2009 (last week) from Andy. Measurement was taken in 7/07 and no copy given to us or found until recently. Agreed to add a pod and up the diversion rate to 3.8 cfs per amount filed on claim. Actual measured amount for both wells is 4.02 cfs. Zip code and Pioneer is ok on the acre foot amount on this one since it is based on b/u. Ready to do SF5.

63-5200 – Pioneer ok with cfs and acre foot amount now. Agreed to put that one of the wells is on the centerline between the SENE and NESE, S34 and put both of those pods on the right. It is on the line per gps by ERO. Also corrected AF amount under POU – was 3,989.8 AF/YR and should be 3,898.8. Total was correct. Ready to do SF5.

63-166A, B, 167A, B, 179A, C – All were going to settle on language that basically stated that Mason Creek and Franklin could not file a transfer to change the pod, pou or nou unless Pioneer was first contacted and ok'd it. Then, Andy mentioned something along the line that he was talking with Scott and realized that when Mason Creek &/or Franklin Ditch do not need their water (for whatever reason) then it goes on down and irrigates Pioneer lands, so now they were wanting to put their pou on Franklin and Mason Creek's rights. It kind of goes back to why they may have filed competing rights anyway. We will likely hear what the outcome of their discussions were. Not ready for SF5s.

63-2891 & 63-32513 – Rec. as applied, permitted and licensed. Objection wanted 13 cfs. ERO measured 10.6 cfs. PID ok with the 10 cfs on 63-2891. Want us to delete the wastewater condition even though not objected to. NOTE: 63-32513 filed for the same pod, Dave disallowed because Scott wrote letter that stated the bigger pump went in 1983. They can file a new application for permit for any extra water (.6 cfs). Andy was going to get back to me on whether they wanted to continue the .6 cfs portion of the objection. Will also need NMID settlement language as used in 63-2275. Not ready for SF5s.

63-5255 – Objected to quantity. Still no measurement submitted – Andy feels there was a measurement done and he is still tracking it down. Want to add another pod now and I told him to get me some evidence it was in there before 1987. Needs NMID Settlement language also. Not ready for SF5.

63-2114 – Claimed and licensed for 8.64 cfs – recommended that way. Objection wants 20 cfs. ERO measured 10.2 cfs. Pioneer is now ok with 8.64 cfs, however, they want the remaining 1,56 cfs to be recommended on their Claim No. 63-32584. This was a claim that came in between 12-6 and 12-14 the year I filed the report on 12-12. So, it did not get recommended in the report and needs to go into the fall report this year. Both of these need the NMID settlement language on them. I have evidence of a larger diversion flow from the backfile on 63-2114 and the measurement so should be able to recommend late claim. Probably won't want SF5 signed until late claim gets decreed. Andy will need to speak to that, so no SF5 done on 63-2114 yet.

63-21706 – Pioneer ok with .1 cfs (if you can believe it). We are ok with Ada rather than Canyon & zipcode of course. SOU objection was the hold up – Andy wanted the SOU remark removed because this is a 1961 priority dated right which is junior to all the reservoirs anyway and he thought it was useless. Was to talk with BPBC & BOR about it and if they agree to remove SOU remark per Andy's idea, then ready for SF5. Otherwise, not ready for SF5 now.

63-21713 – Claim was for 15 cfs and we recommended 11.2 cfs from ERO measurement (fall). We allowed them to do a summer measurement and they came back with 17.9 cfs. Pioneer only claimed 15 cfs, so at the time I spoke with Andy that was ok to recommend 15 cfs. I did not find out until today when

I looked in the file that Wilder withdrew it's objection, so basically as long as Andy is still ok with the 15 cfs we can do an SF5 on this one.

SF5's done:

63-161BU

63-224

63-225

63-294

63-295

63-371

63-2275

can go forward to PD as

63-2276

email.

63-2294

63-5219

63-5237

63-21714 - PD Issued

63-21731

63-21739

63-32514

63-32515

NOTE: Talk with Nick about 63-32496 to see if it

an uncontested overlap - send SM Booth an

That's the best I got and it is in the order of the hearing schedules. See ya later – have questions call me quick.

Jan

Shurte, Jan

From: Spencer, Nick
Sent: Monday, January 26, 2009 2:43 PM
To: Shurte, Jan
Cc: Williams, Ray
Subject: FW: 63-21713 (Pioneer Irrigation District)

Hi Jan. According to my notes Andy Waldera said at the last status conference that Pioneer was okay with 15 cfs, so I am not expecting to see an amended claim. What we are waiting for, however, according to my notes, is for Paul Arrington for Wilder Irrigation District to review the measurement data and decide if it is sufficient to enable Wilder to withdraw its objection. Paul was confident enough that the objection would be withdrawn that the SM just set a ninety day tickler, rather than scheduling another status conference. It's now been more than ninety days without an SF-5, so here we are with the court setting a status conference. NBS

From: Williams, Ray
Sent: Monday, January 26, 2009 11:21 AM
To: Spencer, Nick
Subject: FW: 63-21713 (Pioneer Irrigation District)

From: Shurte, Jan
Sent: Monday, January 26, 2009 11:19 AM
To: Williams, Ray
Subject: RE: 63-21713 (Pioneer Irrigation District)

Hi Ray – Andy did give me the measurement for this one. What we are waiting on now is for him to confer with Pioneer Irrigation District and see if they want to file an amended claim. The original claim is for 15 cfs and Dave Shaw measured 17.9 cfs. I can't recommend more than claimed, so his last duty was to see if PID wants to amend. The faulty measurement, just for an fyi, is because the system was measured in October the first time and we allowed them to remeasure in the spring due to the objections to the amounts of water. That is a typical problem IDWR has with field work is trying to measure water in the fall, when normally it is pretty low. Just for your infor. Andy has not responded to me yet. Jan

From: Williams, Ray
Sent: Monday, January 26, 2009 11:10 AM
To: Shurte, Jan
Cc: Spencer, Nick
Subject: FW: 63-21713 (Pioneer Irrigation District)

Jan,

I don't know if you had a chance to get back to Nick on this. Did we get the measurements? Maybe this is one of the SF5s that you were working on.

Thanks,

Ray

From: Spencer, Nick
Sent: Monday, September 29, 2008 5:03 PM
To: Shurte, Jan
Cc: Williams, Ray; Ridgeway, Renea
Subject: 63-21713 (Pioneer Irrigation District)

Hi Jan. This one is set for a telephone status conference at 11:30 tomorrow. In addition to the Wilder Irrigation District wastewater objection, Pioneer also objected to the quantity element. At the initial hearing Andy Waldera said the measurement upon which the quantity recommendation was based was faulty, and that Dave Shaw was going to go out

and get a new measurement the very next day. Assuming that he did so, did he ever get that measurement to you? If he did, what is your thinking on how to address the quantity objections? Let me know your thoughts. Thanks. NBS

STATUS CONFERENCE NOTES:

RIGHT NO. 63-21713

DATE: 1-27-09

Andy is still waiting for word from Pioneer's word on upping ops. Wilder Drug Dist. doesn't anticipate any problem with language, but they will get back to us - Go day tucker!

Summer Report

Consultants in
natural
resources and
the environment

Denver • Boise • Durango • Western Slope

**DISCHARGE MEASUREMENTS
FOR
PIONEER IRRIGATION DISTRICT
JULY 2007, APRIL AND JUNE 2008**

Prepared for—

Moffatt Thomas Barrett Rock & Fields
101 S. Capitol Blvd., 10th Floor
Boise, Idaho 83701

Prepared by—

ERO Resources Corporation
3314 Grace Street
Boise, Idaho 83713
(208) 373-7983

July 23, 2008



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eroboise@eroresources.com

**DISCHARGE MEASUREMENTS
FOR
PIONEER IRRIGATION DISTRICT
JULY 2007, APRIL AND JUNE 2008**

This report describes four discharge measurements made for Pioneer Irrigation District in July 2007, and April and June 2008. The discharge of the Wilson Drain pump was made on July 25, 2007. The discharge of the Stockyard diversion from Indian Creek was measured on April 8, 2008. Finally the discharge of the Fivemile Feeder east of Star Road and the Pipe Gulch diversion were measured on June 20, 2008. All measurements were made according to procedures established for the respective meter in use.

The discharge measurement of the Wilson Drain pump was made on the discharge pipe in a trench opened in the upstream bank of the Phyllis Canal as shown in Photo 1 in Attachment 1. The Wilson Drain pump is a 40 hp pump located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 19 Twp. 3N Rge. 2W, B.M. that pumps from Wilson Drain and discharges into the Phyllis Canal. The discharge was measured with a Polysonics Model DCT 7088 transit time sonic meter, Serial No. 33508. The location of the measurement and the installation of one transducer are shown in Photo 1 in Attachment 1. The meter showed a discharge of 4,780 gpm or 10.6 cfs at 1:15 p.m. on July 25, 2007. 63-2891
✓63-32513

The diversion from Indian Creek into the Stockyard Lateral was measured on April 8, 2008. This diversion is located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 36 Twp. 4N Rge. 3W, B.M. and was measured with a current meter in the headbox upstream from the control gate and pipeline. The discharge was measured to be 10.2 cfs and the measurement notes and current meter record are attached as Attachment 2. 63-2114
✓63-32584

The discharge of the Fivemile Feeder was measured east of the wooden bridge east of Star Road in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 32 Twp. 4N Rge. 1W, B.M. on June 20, 2008. The discharge was measured to be 76.6 cfs. The discharge measurement notes and the current meter record are attached as Attachment 3. - 63-21731
ADDITIONAL
FLOW - WAIT
FOR NM10 SF
TO CHANGE.

The Pipe Gulch diversion was measured in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 27 Twp. 4N Rge. 4W, B.M. on June 20, 2008. The discharge was measured to be 17.9 cfs. The discharge measurement notes and the current meter record are attached as Attachment 4. - 63-21713

ATTACHMENT 1



Photo 1. Polysonics Meter installed on Wilson Drain pump discharge pipe.

ATTACHMENT 2

08 April 2008



Looking at measurement site.



Looking upstream through box.



ERO Resources Corporation
3314 Grace St.
Boise, Idaho 83703-5836
(208) 373-7983

DISCHARGE MEASUREMENT NOTES

Site Number _____ Site Name _____
Time _____ Date _____
By _____ Duplicate of Site Number _____
Width _____ Area _____ Velocity _____ G.H. _____ Discharge _____
Method _____ No Secs _____ G.H. change _____ in _____ hr. Susp _____
Method boat _____ Hor. Angle coef _____ Susp. Coef _____ Meter No _____
Type of meter _____ Date read _____ Spin before measurement _____ after _____
Meter _____ ft. above bottom of weight Tag checked _____ Levels obtained _____
GAGE READINGS
Time Inside _____ Outside _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
_____ _____
Weighted M.G.H. _____
G.H. correction _____
Correct M.G.H. _____
Meas. Plots _____ % diff from _____ rating
Chain bar chain found _____ changed to _____ at _____
Wading, cable, ice, boat, upstream
downstream, side bridge _____ feet, mile
above, below gage _____
Aquasac No. _____
Measurement rated: excellent (2%) good (5%) fair (8%) poor (over 8%) estimated none
based on the following conditions:
Flow _____
Cross section _____
Control _____
Weather _____ Air _____ • C @ _____ Water _____ • C @ _____
pH _____ Cond _____ μ S TDS _____ Mg/L
DO _____ Mph _____ % Meter ID _____
Number of Sections Sampled _____ EWI _____ EDI _____
Remarks _____

AquaCalc 5000 (tm) by JBS Instruments
Firmware Version AQCUSH7a (c)1995 1996 1997 1998 1999

GAGE ID# Stockyard Lateral at Caldwell
DATE 04/08/2008
TRANSECT 01
USER ID# WAH
SH BEGIN 0.00
SH END 0.00
GH BEGIN 0.00
GH END 0.00
EST. DISCHARGE 0.00
EST. Q (ADJ) 10.20
METER ID# 000000
AQUACALC ID# 1
SOUNDING WT. 0
START MEAS. AT LEW
METER TYPE Price AA 1:1 ST2
METER CONST. C1 2.2048
METER CONST. C2 0.0178
METER CONST. C3 2.2048
METER CONST. C4 0.0178
METER CONST. C5 0.0
MEASUREMENT TIME 40
MEAS. SYSTEM SAE
PERCENT SLOPE 0.00
TOTAL VERTICALS 15
TOTAL STATIONS 26
TOTAL WIDTH 6.00
TOTAL AREA 52.90
TOTAL DISCHARGE 10.200
PCT DIFFERENCE 0.0
MEAN VELOCITY 0.19
WETTED PERIMETER 11.80
HYDRAULIC RADIUS 4.48
MANNING FACTOR 0.00

OB	DIST	DEPTH	ICE	REVS	TIME	COS:VF	LOC	COEF	CLOCK	VEL	AREA	FLOW(Q)	FLAGS
1	0.00	0.00	0.00	0	0.0	1.00	6	1.00	10:24	0.000	0.000	0.000	
2	1.00	0.00	0.00	0	0.0	1.00	B	1.00	10:24	0.000	0.000	0.000	
3	1.50	6.10	0.00	3	49.2	1.00	2	1.00	10:21	0.152	3.050	0.880	45
4	1.50	6.10	0.00	8	43.3	1.00	8	1.00	10:24	0.425	0.000	0.000	5
5	2.00	6.10	0.00	7	40.9	1.00	8	1.00	10:26	0.395	3.050	0.891	5
6	2.00	6.10	0.00	4	51.4	1.00	2	1.00	10:29	0.189	0.000	0.000	45
7	2.50	6.10	0.00	0	0.0	1.00	2	1.00	0:00	0.000	3.050	0.490	45
8	2.50	6.10	0.00	6	43.6	1.00	8	1.00	10:33	0.321	0.000	0.000	5
9	3.00	6.14	0.00	8	41.3	1.00	8	1.00	10:35	0.445	3.070	0.989	5
10	3.00	6.14	0.00	4	48.5	1.00	2	1.00	10:37	0.199	0.000	0.000	45
11	3.50	6.10	0.00	0	0.0	1.00	2	1.00	10:37	0.000	3.050	0.578	45
12	3.50	6.14	0.00	7	42.7	1.00	8	1.00	10:41	0.379	0.000	0.000	5
13	4.00	5.80	0.00	7	48.5	1.00	8	1.00	10:42	0.336	2.900	0.487	5
14	4.00	5.80	0.00	0	0.0	1.00	2	1.00	0:00	0.000	0.000	0.000	45
15	4.50	5.80	0.00	6	45.6	1.00	2	1.00	10:45	0.308	2.900	1.099	5
16	4.50	5.80	0.00	8	40.8	1.00	8	1.00	10:47	0.450	0.000	0.000	5
17	5.00	5.80	0.00	8	41.8	1.00	8	1.00	10:48	0.440	2.900	1.114	5
18	5.00	5.80	0.00	6	42.7	1.00	2	1.00	10:50	0.328	0.000	0.000	5
19	5.50	6.10	0.00	8	44.6	1.00	2	1.00	10:52	0.413	3.050	1.194	
20	5.50	6.10	0.00	7	43.8	1.00	8	1.00	10:53	0.370	0.000	0.000	
21	6.00	6.10	0.00	8	40.9	1.00	8	1.00	10:54	0.449	3.050	1.260	5
22	6.00	6.10	0.00	7	43.0	1.00	2	1.00	10:56	0.377	0.000	0.000	5
23	6.50	6.10	0.00	10	41.5	1.00	2	1.00	10:57	0.549	3.050	1.183	
24	6.50	6.10	0.00	4	42.2	1.00	8	1.00	11:00	0.227	0.000	0.000	4
25	7.00	6.10	0.00	0	0.0	1.00	B	1.00	11:01	0.000	19.800	0.000	
26	7.00	0.00	0.00	0	0.0	1.00	6	1.00	11:01	0.000	0.000	0.000	

1. USER EXCEEDED SINGLE SUBSECTION 00% EST. Q.
2. THE PRODUCT OF VELOCITY AND DEPTH EXCEEDED THE SELECTED SOUNDING WEIGHT.
3. INCORRECT METER USED FOR DEPTH OF STREAM.
4. INCORRECT METER USED FOR VELOCITY OF STREAM.
5. ABNORMAL VELOCITY PROFILE CALCULATED.

6. DEPTH ESTIMATED BY USER.
7. VELOCITY ESTIMATED BY USER.

ATTACHMENT 3

20 June 2008



Looking upstream at measuring site.



Looking downstream through measuring site.



ERO Resources Corporation
3314 Grace St.
Boise, Idaho 83703-5836
(208) 373-7983

DISCHARGE MEASUREMENT NOTES

Site Number _____ **Site Name** _____
Date _____ **Duplicate of Site Number** _____
By _____ **Meter** _____
Width _____ **Area** _____ **Velocity** _____ **G H** _____ **Discharge** _____
Method _____ **No Secs** _____ **G H change** _____ in _____ hr _____ Susp _____
Method coef. _____ **Hor Angle coef** _____ **Susp Coef** _____ **Meter No** _____
Type of meter _____ **Date rated** _____ **Spin before measurement** _____ after _____
Meter _____ ft above bottom of weight **Tag checked** _____ Levels obtained _____

GAGE READINGS					
Time	Inside			Outside	

Meas Plots % diff from rating
Chain bar chain found changed to at
Wading cable ice boat upstream downstream side bridge feet mile above below gage

Aquacalc No _____

Weighted M G H
G H correction
Correct M G H

Measurement rated: excellent (2%) good (5%), fair (15%), poor (over 8%) estimated none based on the following conditions:
Flow _____
Cross section _____
Control _____
Weather _____ **Air** _____ • C @ _____ **Water** _____ • C @ _____
pH _____ **Cond** _____ **US TDS** _____ **Mg/L** _____
DO _____ **Mg/L** _____ % **Meter ID** _____
Number of Sections Sampled _____ **EVI** _____ **EDI** _____
Remarks _____

AquaCalc 5000 (tm) by JBS Instruments
Firmware Version AQCUSH7a (c)1995 1996 1997 1998 1999

GAGE ID# Fivemile Feeder Canal
DATE 06/20/2008
TRANSECT 01
USER ID# WAH
SH BEGIN 0.00
SH END 0.00
GH BEGIN 0.00
GH END 0.00
EST. DISCHARGE 0.00
EST. Q (ADJ) 76.60
METER ID# 000000
AQUACALC ID# 1
SOUNDING WT. 0
START MEAS. AT LEW
METER TYPE Price AA 1:1 ST2
METER CONST. C1 2.2048
METER CONST. C2 0.0178
METER CONST. C3 2.2048
METER CONST. C4 0.0178
METER CONST. C5 0.0

MEASUREMENT TIME 40
MEAS. SYSTEM SAE
PERCENT SLOPE 0.00
TOTAL VERTICALS 30
TOTAL STATIONS 31
TOTAL WIDTH 13.60
TOTAL AREA 39.70
TOTAL DISCHARGE 76.600
PCT DIFFERENCE 0.0
MEAN VELOCITY 1.93
WETTED PERIMETER 14.70
HYDRAULIC RADIUS 2.70
MANNING FACTOR 0.00

OB	DIST	DEPTH	ICE	REVS	TIME	COS:VF	LOC	COEF	CLOCK	VEL	AREA	FLOW(Q)	FLAGS
1	0.00	0.00	0.00	0	0.0	1.00	6	1.00	9:37	0.000	0.000	0.000	
2	2.40	0.00	0.00	0	0.0	1.00	6	1.00	9:37	0.000	0.000	0.000	
3	2.40	0.37	0.00	31	40.7	1.00	B	1.00	9:38	1.697	0.000	0.000	
4	3.00	0.38	0.00	30	41.0	1.00	6	1.00	9:39	1.631	0.209	0.341	3
5	3.50	1.60	0.00	46	40.4	1.00	6	1.00	9:41	2.528	0.800	2.022	
6	4.00	1.76	0.00	54	40.0	1.00	6	1.00	9:42	2.994	0.880	2.635	
7	4.50	1.86	0.00	56	40.2	1.00	6	1.00	9:43	3.089	0.930	2.873	
8	5.00	1.95	0.00	55	40.5	1.00	6	1.00	9:44	3.012	0.975	2.937	
9	5.50	2.18	0.00	51	40.6	1.00	6	1.00	9:45	2.787	1.090	3.038	
10	6.00	2.13	0.00	55	40.4	1.00	6	1.00	9:47	3.019	1.070	3.230	
11	6.50	2.10	0.00	61	40.1	1.00	6	1.00	9:48	3.372	1.050	3.541	
12	7.00	2.40	0.00	57	40.6	1.00	6	1.00	9:49	3.113	1.200	3.736	
13	7.50	2.45	0.00	61	40.4	1.00	6	1.00	9:51	3.347	1.230	4.117	
14	8.00	2.40	0.00	63	40.6	1.00	6	1.00	9:52	3.439	1.200	4.127	
15	8.50	2.55	0.00	58	40.1	1.00	6	1.00	9:53	3.207	1.280	4.105	
16	9.00	2.52	0.00	56	40.6	1.00	6	1.00	9:55	3.059	1.260	3.854	
17	9.50	2.52	0.00	59	40.5	1.00	6	1.00	9:57	3.230	1.260	4.070	
18	10.00	2.50	0.00	59	40.3	1.00	6	1.00	9:58	3.246	1.250	4.058	
19	10.50	2.65	0.00	59	40.5	1.00	6	1.00	9:59	3.230	1.330	4.296	
20	11.00	2.53	0.00	54	40.7	1.00	6	1.00	10:00	2.943	1.270	3.738	
21	11.50	2.40	0.00	48	40.2	1.00	6	1.00	10:01	2.650	1.200	3.180	
22	12.00	2.35	0.00	46	40.8	1.00	6	1.00	10:02	2.503	1.180	2.954	
23	12.50	2.30	0.00	43	40.1	1.00	6	1.00	10:04	2.382	1.150	2.739	
24	13.00	2.20	0.00	42	40.5	1.00	6	1.00	10:05	2.304	1.100	2.534	
25	13.50	2.20	0.00	41	40.8	1.00	6	1.00	10:06	2.233	1.100	2.456	
26	14.00	2.15	0.00	37	40.4	1.00	6	1.00	10:07	2.037	1.080	2.200	
27	14.50	2.00	0.00	28	40.4	1.00	6	1.00	10:08	1.546	1.000	1.546	
28	15.00	1.85	0.00	21	42.4	1.00	6	1.00	10:09	1.110	0.925	1.027	
29	15.50	1.65	0.00	13	41.3	1.00	6	1.00	10:10	0.712	0.825	0.587	
30	16.00	1.53	0.00	10	42.0	1.00	B	1.00	10:11	0.543	11.900	0.646	
31	16.00	0.00	0.00	0	0.0	1.00	6	1.00	0:00	0.000	0.000	0.000	

1. USER EXCEEDED SINGLE SUBSECTION 00% EST. Q.
2. THE PRODUCT OF VELOCITY AND DEPTH EXCEEDED THE SELECTED SOUNDING WEIGHT.
3. INCORRECT METER USED FOR DEPTH OF STREAM.
4. INCORRECT METER USED FOR VELOCITY OF STREAM.
5. ABNORMAL VELOCITY PROFILE CALCULATED.
6. DEPTH ESTIMATED BY USER.
7. VELOCITY ESTIMATED BY USER.

ATTACHMENT 4

20 June 2008



Looking upstream at measuring site.



Looking downstream through measuring site.



ERO Resources Corporation
3314 Grace St.
Boise, Idaho 83703-5836
(208) 373-7983

DISCHARGE MEASUREMENT NOTES

Site Number _____ Site Name _____
Time _____ Date _____
By _____ Duplicate of Site Number _____
Width 0 Area _____ Velocity 179 GH _____ Discharge 179
Method _____ No Secs _____ GH change _____ in _____ hr Susp _____
Method coef _____ Hor Angle coef _____ Susp Coef _____ Meter No _____
Type of meter _____ Date rated _____ Spin before measurement _____ after _____
Meter _____ ft. above bottom of weight Tag checked _____ Levels obtained _____

[illegible]

Meas. Plots _____ % diff. from _____ rating
Chain car chain found _____ changed to
_____ at _____
Wading cable ice boat upstream
downstream side bridge _____ feet, mile
above below gage

Aquacole No. _____

Measurement rated: excellent (2%), good (5%), fair (8%), poor (over 8%) estimated none
based on the following conditions

Cross section

Control

Weather _____ Air _____ °C @ _____ Water _____ °C @ _____

Cond _____ μ S TDS _____ Mg/L

DO _____ Mg/L _____ % Meter ID _____

Number of Sections Sampled: _____ EWI: _____ EDI: _____

Remarks:

1120

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[illegible]

AquaCalc 5000 (tm) by JBS Instruments
Firmware Version AQCUSH7a (c)1995 1996 1997 1998 1999

GAGE ID# Pipe Gulch diversion
DATE 06/20/2008
TRANSECT 02
USER ID# WAH
SH BEGIN 0.00
SH END 0.00
GH BEGIN 0.00
GH END 0.00
EST. DISCHARGE 0.00
EST. Q (ADJ) 17.90
METER ID# 000000
AQUACALC ID# 1
SOUNDING WT. 0
START MEAS. AT LEW
METER TYPE Pygmy ST2
METER CONST. C1 0.9604
METER CONST. C2 0.0312
METER CONST. C3 0.9604
METER CONST. C4 0.0312
METER CONST. C5 0.0
MEASUREMENT TIME 40
MEAS. SYSTEM SAE
PERCENT SLOPE 0.00
TOTAL VERTICALS 23
TOTAL STATIONS 23
TOTAL WIDTH 12.00
TOTAL AREA 13.20
TOTAL DISCHARGE 17.900
PCT DIFFERENCE 0.0
MEAN VELOCITY 1.36
WETTED PERIMETER 13.25
HYDRAULIC RADIUS 1.00
MANNING FACTOR 0.00

OB	DIST	DEPTH	ICE	REVS	TIME	COS:VF	LOC	COEF	CLOCK	VEL	AREA	FLOW(Q)	FLAGS
1	0.00	0.00	0.00	0	0.0	1.00	6	1.00	11:02	0.000	0.000	0.000	
2	1.00	0.70	0.00	0	40.0	1.00	6	1.00	11:02	0.000	0.455	0.000	
3	1.30	1.25	0.00	5	42.5	1.00	6	1.00	11:06	0.144	0.375	0.054	4
4	1.60	1.45	0.00	37	40.5	1.00	6	1.00	11:10	0.909	0.435	0.395	
5	1.90	1.55	0.00	76	40.4	1.00	6	1.00	11:11	1.838	0.465	0.855	3
6	2.20	1.75	0.00	93	40.1	1.00	6	1.00	11:13	2.259	0.525	1.186	1 3
7	2.50	1.85	0.00	113	40.1	1.00	6	1.00	11:14	2.738	0.555	1.520	1 3
8	2.80	1.95	0.00	118	40.0	1.00	6	1.00	11:16	2.864	0.585	1.675	1 3
9	3.10	1.95	0.00	113	40.1	1.00	6	1.00	11:17	2.738	0.585	1.602	1 3
10	3.40	1.95	0.00	102	40.2	1.00	6	1.00	11:17	2.468	0.585	1.444	1 3
11	3.70	1.95	0.00	81	40.4	1.00	6	1.00	11:18	1.957	0.585	1.145	1 3
12	4.00	2.00	0.00	85	40.2	1.00	6	1.00	11:19	2.062	0.600	1.237	1 3
13	4.30	2.10	0.00	74	40.2	1.00	6	1.00	11:20	1.799	0.630	1.133	1 3
14	4.60	2.10	0.00	88	40.3	1.00	6	1.00	11:22	2.128	0.630	1.341	1 3
15	4.90	2.10	0.00	80	40.2	1.00	6	1.00	11:22	1.942	0.630	1.223	1 3
16	5.20	2.10	0.00	81	40.4	1.00	6	1.00	11:23	1.957	0.630	1.233	1 3
17	5.50	2.15	0.00	48	40.7	1.00	6	1.00	11:24	1.164	0.645	0.751	3
18	5.80	2.05	0.00	20	40.4	1.00	6	1.00	11:25	0.507	0.615	0.312	3
19	6.10	2.00	0.00	10	43.3	1.00	6	1.00	11:27	0.253	0.600	0.152	3
20	6.40	1.80	0.00	13	42.2	1.00	6	1.00	11:28	0.327	0.540	0.177	3
21	6.70	1.30	0.00	13	46.5	1.00	6	1.00	11:30	0.300	1.690	0.507	
22	9.00	0.30	0.00	0	40.0	1.00	6	1.00	11:33	0.000	0.795	0.000	4
23	12.00	0.00	0.00	0	0.0	1.00	6	1.00	0:00	0.000	0.000	0.000	

1. USER EXCEEDED SINGLE SUBSECTION 05% EST. Q.
2. THE PRODUCT OF VELOCITY AND DEPTH EXCEEDED THE
SELECTED SOUNDING WEIGHT.
3. INCORRECT METER USED FOR DEPTH OF STREAM.
4. INCORRECT METER USED FOR VELOCITY OF STREAM.
5. ABNORMAL VELOCITY PROFILE CALCULATED.
6. DEPTH ESTIMATED BY USER.
7. VELOCITY ESTIMATED BY USER.