

Permit No: 36-7750A

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
OCT 21 2004
DEPARTMENT OF WATER RESOURCES
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A. GENERAL INFORMATION

Permit No: 36-7750A

Exam Date:

1. Current Owner: RIVER GROVE INC
C/O PETER L STURDIVANT
PO BOX 606
HAILEY ID 83333-0606
(208)788-9845

The site was visited by Gary
Funderburg sometime in 1989
and by Steve Clelland in 1991
Desktop review 10/15/04 by
Allen Merritt

2. Accompanied by: Unknown (There is some indication from file that Funderburg may have met with Rod Griffith who operated the facility in 1989. SRBA Claims indicate Clelland also met with Griffith.)

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

BILLINGSLEY CREEK

TRIBUTARY

SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: SEE NARRATIVE

2. Other water rights with the same point of diversion: SEE NARRATIVE

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

PD #1 BILLINGSLEY CREEK	SE1/4NW1/4	Sec. 11, Twp 07S, Rge 13E, B.M.
GOODING County		
PD#2 BILLINGSLEY CREEK	SE1/4NW1/4	Sec. 11, Twp 07S, Rge 13E, B.M.
GOODING County		

Method of Determination: Place of Use and Points of diversion were determined using GPS, Arcview, WMIS Reports and field review reports.

2.

PLACE OF USE: FISH PROPAGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
07S	13E	11					X	X	X	X		X							

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. (SEE attached Arcview generated Map)
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater. (SEE attached Arcview generated Map)
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached (SEE attached photos taken by Funderburg sometime in 1989)

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
N/A					

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS As Reported through WMIS (See attached sheets)

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Installed weirs						

2. Measurements:

E. FLOW CALCULATIONS____ Additional Computation Sheets Attached
Measured

Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

The development of permit 36-7750 originally filed by Smith has a history and must be considered when licensing of the various pieces. Initially the permit was intended to supplement and add to ponds already constructed by Smith under rights 36-7282 and 36-7314. In the late 1980's the Smith property was split up between Talbott, Dunn, and Eckles. During this same period the SRBA review of the basin was undertaken. Right 36-7282 was licensed for 36 cfs and essentially was for ponds that ultimately became Eckles'. This right was diverted out of two headgates sitting side by side on Billingsley creek in the in the SENW S11, T7S, R13E and are what is identified as PD#1 and PD#2 identified above. Right 36-7314 was licensed for 20 cfs and diverted in the NESENW S11, T7S, R13E where water was directed through the ponds above the ridge which ultimately became Talbott's and then flowed over the ridge to the ponds that ultimately became Dunn's. When the lands were split, Eckles was deeded 5 cfs of right 36-7314 which was returned to Billingsley Creek after running through the Talbott ponds and then picked up at the diversions for 36-7282. The SRBA confirmed the three way split of 36-7314. 36-7314A to Talbott for initial use of 20 cfs in the ponds on top of the ridge; 36-7314B to Dunn for 15 cfs use in the Dunn ponds located below the ridge from the outfall of the Talbott ponds; 36-7314C for 5 cfs returned to Billingsley Creek from the Talbott ponds and then re-diverted at the Eckles diversions for use in the Eckles ponds.

When the Smith land was split permit 36-7750 was also split between Eckles and Dunn. The use was developed as follows:

36-7750A (Dunn) was developed by constructing a diversion point a few feet upstream from PD#2. I will call this PD#3. This diversion supplied water into a pipeline which conveyed water from below the ridge to the Dunn ponds that were also supplied water from the Talbott ponds as described above.

36-7750B (Eckles) was developed or diverted to the Eckles ponds supplied by other rights as described above.

In 1998 Dunn assigned 36-7750A to River Grove Farms Inc. In 1998 Eckles assigned 36-7750B to Peter Sturdivant. There is a management relationship between River Grove Farms Inc. and Peter Sturdivant. Sometime between 1992 and 2002 the fish ponds initially constructed by Smith have been totally re-worked. During this same period the water diverted at PD#3 was diverted at PD#1 and PD#2 and the water dumped over the rim ceased but was re-diverted at PD#1 and PD#2. (Note that a transfer is pending to correct description of licensed fish propagation rights PD and PU.)

Analysis of WMIS records (attached) from 1998 to 2002 indicate that the highest diversion attributed to Eckles and Dunn at the same time occurred on January 31, 2000. On that day 49.5 cfs was being charged to Eckles and 26.5 cfs was being charged to Dunn. This represents a total diversion of 76 cfs to the combined facility. (Note that Brockway measured combined use at facility to be 76.39 cfs sometime in 1999. See e-mail dated 10/5/2004)

Recommendation Analysis:

36-7750A 26.5 – 15 = 11.5 (15 is for 36-7314B presumed to be diverted at that time at new pd)
 36-7750B 49.5 – 36 – 5 = 8.5 (36 is for 36-7282 and 5 is for 36-7314C)

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FISH PROPAGATION	10/01 to 4/01	11.50 CFS	
<u>Totals:</u>		11.50 CFS	

2. Recommended Amendments

☐ Change P.D. as reflected above ☒ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name



Date

10/18/07

Reviewer

Date

Licensing Exam

36-7750A and 36-7750B



Section 11, T07S, R13E

1320 0 1320 Feet

-  07S13E GCDB
-  N coord pipeline & ditches.shp
-  N coor water system features.shp
-  Fish.shp
-  PLSS Section LinesGcdb_sections.shp

ADM
10/19/04

COMBINED - BILLINGSLEY BAY HATCHERY

Diversion Name: ~~SMITH DITCH/ECKLES~~ AT BILLINGSLEY BAY

Water Dist Div. No.: 410011

Discharge, Cubic Feet Per Second, Calendar Year 2002

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	40.5	55.3	53.0	52.0	43.5	0.0	0.0	0.0	40.0	40.0	47.0	51.0
02	40.5	55.3	53.0	52.0	43.5	0.0	0.0	0.0	40.0	40.0	47.0	51.0
03	40.5	55.3	53.0	52.0	43.5	0.0	0.0	0.0	40.0	40.0	47.0	51.0
04	40.5	55.3	53.0	52.0	43.5	0.0	0.0	0.0	40.0	40.0	47.0	51.0
05	40.5	55.3	53.0	52.0	43.5	0.0	0.0	0.0	40.0	40.0	47.0	51.0
06	40.5	55.3	53.0	52.0	43.5	0.0	0.0	0.0	40.0	40.0	47.0	51.0
07	55.0	54.0	53.5	45.0	35.0	0.0	0.0	0.0	40.0	45.0	46.0	35.0
08	55.0	54.0	53.5	45.0	35.0	0.0	0.0	0.0	40.0	45.0	46.0	35.0
09	55.0	54.0	53.5	45.0	35.0	0.0	0.0	0.0	40.0	45.0	46.0	35.0
10	55.0	54.0	53.5	45.0	35.0	0.0	0.0	0.0	40.0	45.0	46.0	35.0
11	55.0	54.0	53.5	45.0	35.0	0.0	0.0	0.0	40.0	45.0	46.0	35.0
12	55.0	54.0	53.5	45.0	35.0	0.0	0.0	0.0	40.0	45.0	46.0	35.0
13	55.0	54.0	53.5	45.0	35.0	0.0	0.0	0.0	40.0	45.0	46.0	35.0
14	54.5	53.0	52.5	44.5	34.5	0.0	0.0	0.0	41.5	46.5	47.5	40.5
15	54.5	53.0	52.5	44.5	34.5	0.0	0.0	0.0	41.5	46.5	47.5	40.5
16	54.5	53.0	52.5	44.5	34.5	0.0	0.0	0.0	41.5	46.5	47.5	40.5
17	54.5	53.0	52.5	44.5	34.5	0.0	0.0	0.0	41.5	46.5	47.5	40.5
18	54.5	53.0	52.5	44.5	34.5	0.0	0.0	0.0	41.5	46.5	17.5	40.5
19	54.5	53.0	52.5	44.5	34.5	0.0	0.0	0.0	41.5	46.5	47.5	40.5
20	54.5	53.0	52.5	44.5	34.5	0.0	0.0	0.0	41.5	46.5	47.5	40.5
21	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
22	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
23	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
24	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
25	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
26	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
27	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
28	56.3	53.5	53.0	43.0	34.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
29	56.3		52.0	43.5	33.0	0.0	0.0	0.0	40.5	46.0	50.5	50.5
30	55.3		52.0	43.5	33.0	0.0	0.0	0.0	40.0	47.0	51.0	52.5
31	55.3		52.0		33.0		0.0	0.0		47.0		52.5
Total	1626.8	1509	1640.0	1369.5	1118.5	0.0	0.0	0.0	1215.0	1388.5	1412.0	1394.0
Mean	52.5	53.9	52.9	45.7	36.1	0.0	0.0	0.0	40.5	44.8	47.1	45.0
Min	40.5	53.0	52.0	43.0	33.0	0.0	0.0	0.0	40.0	40.0	17.5	35.0
Max	56.3	55.3	53.5	52.0	43.5	0.0	0.0	0.0	41.5	47.0	51.0	52.5
Ac-Ft	3226.8	2992.7	3252.9	2716.4	2218.5	0.0	0.0	0.0	2410.0	2754.1	2800.7	2765.0

Calendar Year 2002 Total Cfs: 12673

Total Ac-Ft: 25137

85

Diversion Name: SMITH DITCH/ECKLES AT BILLINGSLEY BAY

Water Dist Div. No.: 410011

Discharge, Cubic Feet Per Second, Calendar Year 2001

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	49.5	47.5	48.0	47.0	37.0	37.0	0.0	0.0	35.0	34.5	33.8	33.5
02	49.5	47.5	48.0	47.0	37.0	37.0	0.0	0.0	35.0	34.5	33.8	33.5
03	49.5	47.5	48.0	47.0	37.0	37.0	0.0	0.0	35.0	34.5	33.8	33.5
04	49.5	47.5	48.0	47.0	37.0	37.0	0.0	0.0	35.0	34.5	33.8	33.5
05	49.5	47.5	48.0	47.0	37.0	37.0	0.0	0.0	35.0	34.5	33.8	33.5
06	49.5	47.5	48.5	47.0	37.0	36.0	0.0	0.0	35.0	34.5	33.8	38.0
07	48.0	49.0	48.5	38.0	38.0	36.0	0.0	0.0	35.0	34.5	35.0	38.0
08	48.0	49.0	48.5	38.0	38.0	36.0	0.0	0.0	35.0	34.5	35.0	38.0
09	48.0	49.0	48.5	38.0	38.0	36.0	0.0	0.0	35.0	34.5	35.0	38.0
10	48.0	49.0	48.5	38.0	38.0	36.0	0.0	0.0	35.0	34.5	35.0	38.0
11	48.0	49.0	48.5	38.0	38.0	36.0	0.0	0.0	35.0	34.5	35.0	38.0
12	48.0	49.0	48.5	38.0	38.0	36.0	0.0	0.0	35.0	34.5	35.0	38.0
13	48.0	49.0	49.0	38.0	38.0	36.0	0.0	0.0	35.0	34.5	35.0	38.0
14	48.5	48.0	49.0	37.0	37.5	36.0	0.0	0.0	34.5	34.5	34.0	38.0
15	48.5	48.0	49.0	37.0	37.5	36.5	0.0	0.0	34.5	34.0	34.0	38.5
16	48.5	48.0	49.0	37.0	37.5	36.5	0.0	0.0	34.5	34.0	34.0	38.5
17	48.5	48.0	49.0	37.0	37.5	36.5	0.0	0.0	34.5	34.0	34.0	38.5
18	48.5	48.0	49.0	37.0	37.5	36.5	0.0	0.0	34.5	34.0	34.0	38.5
19	48.5	48.0	49.0	37.0	37.5	36.5	0.0	0.0	34.5	34.0	34.0	38.5
20	48.5	48.0	47.0	37.5	37.5	35.0	0.0	0.0	34.5	34.0	33.0	38.5
21	47.0	47.5	47.0	37.5	38.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
22	47.0	47.5	47.0	37.5	38.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
23	47.0	47.5	47.0	37.5	38.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
24	47.0	47.5	47.0	37.5	38.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
25	47.0	47.5	47.0	37.5	38.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
26	47.0	47.5	47.0	37.5	38.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
27	47.0	47.5	47.0	37.5	38.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
28	47.0	47.5	47.0	37.0	37.0	35.0	0.0	0.0	34.0	33.5	33.0	39.0
29	47.0		47.0	37.0	37.0	35.0	0.0	0.0	34.0	33.5	33.5	40.5
30	47.0		47.0	37.0	37.0	35.0	0.0	0.0	34.5	33.8	33.5	40.5
31	47.5		47.0		37.0		0.0	0.0		33.8		40.5
Total	1490.0	1344	1486.5	1181.0	1164.5	1076.5	0.0	0.0	1037.0	1056.0	1015.5	1174.0
Mean	48.1	48.0	48.0	39.4	37.6	35.9	0.0	0.0	34.6	34.1	33.9	37.9
Min	47.0	47.5	47.0	37.0	37.0	35.0	0.0	0.0	34.0	33.5	33.0	33.5
Max	49.5	49.0	49.0	47.0	38.0	37.0	0.0	0.0	35.0	34.5	35.0	40.5
Ac-Ft	2955.4	2665.8	2948.5	2342.5	2309.8	2135.2	0.0	0.0	2056.9	2094.6	2014.2	2328.6

Calendar Year 2001 Total Cfs: 12025

Total Ac-Ft: 23852

Diversion Name: SMITH DITCH/ECKLES AT BILLINGSLEY BAY

Water Dist Div. No.: 410011

Discharge, Cubic Feet Per Second, Calendar Year 2000

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	48.0	49.5	48.0	47.1	39.7	39.2	0.7	0.7	38.7	38.7	45.4	48.0
02	48.0	49.5	48.0	47.1	39.7	39.2	0.7	0.7	38.7	38.7	45.4	48.0
03	48.0	49.5	48.0	47.1	39.7	39.2	0.7	0.7	38.7	38.7	45.4	48.0
04	48.0	49.5	48.0	47.1	39.7	39.2	0.7	0.7	38.7	38.7	45.4	48.0
05	48.0	49.5	48.0	47.1	39.7	39.2	0.7	0.7	38.7	38.7	45.4	48.0
06	48.0	49.5	48.0	47.1	39.7	39.2	0.7	0.7	38.7	38.7	45.4	48.0
07	48.0	49.0	49.2	39.7	40.8	38.2	0.7	0.7	38.7	45.5	45.4	49.0
08	48.0	49.0	49.2	39.7	40.8	38.2	0.7	0.7	38.7	45.5	47.9	49.0
09	48.0	49.0	49.2	39.7	40.8	38.2	0.7	0.7	38.7	45.5	47.9	49.0
10	48.0	49.0	49.2	39.7	40.8	38.2	0.7	0.7	38.7	45.5	47.9	49.0
11	48.0	49.0	49.2	39.7	40.8	38.2	0.7	0.7	38.7	45.5	47.9	49.0
12	48.0	49.0	49.2	39.7	40.8	38.2	0.7	0.7	38.7	45.5	47.9	49.0
13	48.0	48.5	48.7	39.7	40.8	38.2	0.7	0.7	38.7	45.5	47.4	49.0
14	49.5	48.5	48.7	38.7	40.7	37.7	0.7	0.7	38.1	44.4	47.4	49.5
15	49.5	48.5	48.7	38.7	40.7	37.7	0.7	0.7	38.1	44.4	47.4	49.5
16	49.5	48.5	48.7	38.7	40.7	37.7	0.7	0.7	38.1	44.4	47.4	49.5
17	49.5	48.5	48.7	38.7	40.7	37.7	0.7	0.7	38.1	44.4	47.4	49.5
18	49.5	48.5	48.7	38.7	40.7	37.7	0.7	0.7	38.1	44.4	47.4	49.5
19	49.5	48.5	48.7	38.7	40.7	37.7	0.7	0.7	38.1	44.4	47.4	49.5
20	49.5	48.5	48.7	38.7	40.7	37.7	0.7	0.7	38.1	44.4	47.5	49.5
21	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
22	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
23	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
24	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
25	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
26	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
27	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
28	49.0	49.0	47.7	39.2	40.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
29	49.0	48.0	47.1	39.2	39.2	37.7	0.7	0.7	38.6	45.0	47.5	49.5
30	49.5		47.1	39.7	39.2	38.7	0.7	0.7	38.7	45.4	48.0	49.5
31	49.5		47.1		39.2		0.7	0.7		45.4		49.5
Total	1510.5	1419	1495.3	1223.4	1247.2	1144.0	21.0	21.3	1155.6	1356.6	1412.1	1522.0
Mean	48.7	48.9	48.2	40.8	40.2	38.1	0.7	0.7	38.5	43.8	47.1	49.1
Min	48.0	48.0	47.1	38.7	39.2	37.7	0.7	0.7	38.1	38.7	45.4	48.0
Max	49.5	49.5	49.2	47.1	40.8	39.2	0.7	0.7	38.7	45.5	48.0	49.5
Ac-Ft	2996.1	2814.6	2965.8	2426.6	2473.8	2269.2	41.6	42.1	2292.1	2690.7	2800.9	3018.9

Calendar Year 2000 Total Cfs: 13528

Total Ac-Ft: 26832

Diversion Name: SMITH DITCH/ECKLES AT BILLINGSLEY BAY

Water Dist Div. No.: 410011

Discharge, Cubic Feet Per Second, Calendar Year 1999

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	42.0	39.0	41.6	39.3	0.7	0.6	0.7	0.7	0.7	0.7	28.7	28.0
02	42.0	39.0	41.6	39.3	0.7	0.6	0.7	0.7	0.7	0.7	28.7	28.0
03	42.0	39.0	41.6	39.3	0.7	0.6	0.7	0.7	0.7	0.7	28.7	28.0
04	42.0	39.0	41.6	39.3	0.7	0.6	0.7	0.7	0.7	0.7	28.7	28.0
05	42.0	39.0	41.6	39.3	0.7	0.6	0.7	0.7	0.7	0.7	28.7	28.0
06	42.0	39.0	41.5	31.2	0.7	0.6	0.7	0.7	0.7	0.7	28.7	30.0
07	42.0	43.0	41.5	31.2	0.7	0.7	0.7	0.7	0.7	0.7	28.5	30.0
08	42.0	43.0	41.5	31.2	0.7	0.7	0.7	0.7	0.7	0.7	28.5	30.0
09	42.0	43.0	41.5	31.2	0.7	0.7	0.7	0.7	0.7	0.7	28.5	30.0
10	42.0	43.0	41.5	31.2	0.7	0.7	0.7	0.7	0.7	0.7	28.5	30.0
11	42.0	43.0	41.5	31.2	0.7	0.7	0.7	0.7	0.7	0.7	28.5	30.0
12	42.0	43.0	41.5	31.2	0.7	0.7	0.7	0.7	0.7	0.7	28.5	30.0
13	42.0	43.0	41.5	31.2	0.7	0.7	0.7	0.7	0.7	0.7	28.5	30.0
14	41.0	42.5	41.2	31.7	0.7	0.7	0.7	0.7	0.7	0.7	28.1	28.0
15	41.0	42.5	41.9	31.7	0.7	0.7	0.7	0.7	0.7	0.7	27.5	28.0
16	41.0	42.5	41.9	31.7	0.7	0.7	0.7	0.7	0.7	0.7	27.5	28.0
17	41.0	42.5	41.9	31.7	0.7	0.7	0.7	0.7	0.7	0.7	27.5	28.0
18	41.0	42.5	41.9	31.7	0.7	0.7	0.7	0.7	0.7	0.7	27.5	28.0
19	41.0	42.5	41.9	31.7	0.7	0.7	0.7	0.7	0.7	0.7	27.5	28.0
20	40.1	42.5	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	27.5	28.0
21	40.1	42.0	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.0
22	40.1	42.0	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.5
23	40.1	42.0	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.5
24	40.1	42.0	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.5
25	40.1	42.0	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.5
26	40.1	42.0	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.5
27	40.1	42.0	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.5
28	40.1	41.6	40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.5
29	40.1		40.2	29.7	0.7	0.7	0.7	0.7	0.7	0.7	28.2	27.5
30	39.0		39.3	29.2	0.6	0.7	0.7	0.7	0.7	0.7	28.0	27.5
31	39.0		39.3		0.6		0.7	0.7		0.7		27.5
Total	1271.0	1168	1271.0	961.8	21.1	19.8	20.8	21.5	20.4	20.7	846.4	886.0
Mean	41.0	41.7	41.0	32.1	0.7	0.7	0.7	0.7	0.7	0.7	28.2	28.6
Min	39.0	39.0	39.3	29.2	0.6	0.6	0.7	0.7	0.7	0.7	27.5	27.5
Max	42.0	43.0	41.9	39.3	0.7	0.7	0.7	0.7	0.7	0.7	28.7	30.0
Ac-Ft	2521.0	2316.9	2520.9	1907.6	41.9	39.3	41.3	42.5	40.5	41.1	1678.9	1757.4

Calendar Year 1999 Total Cfs: 6529

Total Ac-Ft: 12949

Diversion Name: SMITH DITCH/ECKLES AT BILLINGSLEY BAY

Water Dist Div. No.: 410011

Discharge, Cubic Feet Per Second, Calendar Year 1998

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01		0.0	0.0	0.0	0.7	0.7	11.5	13.2	17.2	14.5	40.2	42.6
02	0.0	0.0	0.0	0.0	0.7	0.7	11.5	13.2	17.2	14.5	40.2	42.6
03	0.0	0.0	0.0	0.0	0.7	0.7	11.5	13.2	17.2	14.5	40.2	42.6
04	0.0	0.0	0.0	0.0	0.7	0.7	11.5	13.2	17.2	14.5	40.2	42.6
05	0.0	0.0	0.0	0.0	0.7	0.7	11.5	13.2	17.2	14.5	40.2	42.6
06	0.0	0.0	0.0	0.0	0.7	12.9	11.5	17.0	17.2	14.5	40.8	42.6
07	0.0	0.0	0.0	0.0	0.7	12.9	10.4	17.0	15.5	32.9	40.8	45.5
08	0.0	0.0	0.0	0.0	0.7	12.9	10.4	17.0	15.5	32.9	40.8	45.5
09	0.0	0.0	0.0	0.0	0.7	12.9	10.4	17.0	15.5	32.9	40.8	45.5
10	0.0	0.0	0.0	0.0	0.7	12.9	10.4	17.0	15.5	32.9	40.8	45.5
11	0.0	0.0	0.0	0.0	0.7	12.9	10.4	17.0	15.5	32.9	40.8	45.5
12	0.0	0.0	0.0	0.0	0.7	12.9	10.4	17.0	15.5	32.9	40.8	45.5
13	0.0	0.0	0.0	0.0	0.7	13.3	10.4	19.2	15.5	32.9	40.8	47.4
14	0.0	0.0	0.0	0.0	0.7	13.3	12.3	19.2	13.8	38.1	41.5	47.4
15	0.0	0.0	0.0	0.0	0.7	13.3	12.3	19.2	13.8	38.1	41.5	47.4
16	0.0	0.0	0.0	0.0	0.7	13.3	12.3	19.2	13.8	38.1	41.5	47.4
17	0.0	0.0	0.0	0.0	0.7	13.3	12.3	19.2	13.8	38.1	41.5	47.4
18	0.0	0.0	0.0	0.0	0.7	13.3	12.3	19.2	13.8	38.1	41.5	47.4
19	0.0	0.0	0.0	0.0	0.7	13.3	12.3	19.2	13.8	38.1	41.5	47.4
20	0.0	0.0	0.0	0.0	0.7	13.3	11.9	17.8	13.8	38.9	41.5	47.6
21	0.0	0.0	0.0	0.0	0.7	13.3	11.9	17.8	17.4	38.9	41.8	47.6
22	0.0	0.0	0.0	0.0	0.7	11.9	11.9	17.8	17.4	38.9	41.8	47.6
23	0.0	0.0	0.0	0.0	0.7	11.9	11.9	17.8	17.4	38.9	41.8	47.6
24	0.0	0.0	0.0	0.0	0.7	11.9	11.9	17.8	17.4	38.9	41.8	47.6
25	0.0	0.0	0.0	0.0	0.7	11.9	11.9	17.8	17.4	38.9	41.8	47.6
26	0.0	0.0	0.0	0.0	0.7	11.9	11.9	17.8	17.4	38.9	41.8	47.6
27	0.0	0.0	0.0	0.0	0.7	11.9	11.9	17.8	17.4	38.9	41.8	47.6
28	0.0	0.0	0.0	0.0	0.7	11.9	11.9	17.8	17.4	38.9	41.8	47.6
29	0.0		0.0	0.0	0.7	11.9	11.9	17.8	14.5	38.9	41.8	47.6
30	0.0		0.0	0.0	0.7	11.5	13.2	17.2	14.5	40.2	42.6	46.0
31	0.0		0.0		0.7		13.2	17.2		40.2		46.0
Total	0.0	0	0.0	0.0	21.1	320.0	360.4	531.5	475.9	1014.7	1236.2	1428.4
Mean	0.0	0.0	0.0	0.0	0.7	10.7	11.6	17.1	15.9	32.7	41.2	46.1
Min	0.0	0.0	0.0	0.0	0.7	0.7	10.4	13.2	13.8	14.5	40.2	42.6
Max	0.0	0.0	0.0	0.0	0.7	13.3	13.2	19.2	17.4	40.2	42.6	47.6
Ac-Ft	0.0	0.0	0.0	0.0	41.9	634.8	714.9	1054.3	943.9	2012.6	2452.1	2833.2

Calendar Year 1998 Total Cfs: 5388

Total Ac-Ft: 10688

11.5

Diversion Name: SMITH DITCH/DUNN AT BILLINGSLEY BAY

Water Dist Div. No.: 410100

Discharge, Cubic Feet Per Second, Calendar Year 2001

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	26.0	26.5	24.8	25.0	14.5	0.0	0.0	0.0	0.0	14.2	24.0	26.0
02	26.0	26.5	24.8	25.0	14.5	0.0	0.0	0.0	0.0	14.2	24.0	26.0
03	26.0	26.5	24.8	25.0	14.5	0.0	0.0	0.0	0.0	14.2	24.0	26.0
04	26.0	26.5	24.8	25.0	14.5	0.0	0.0	0.0	0.0	14.2	24.0	26.0
05	26.0	26.5	24.8	25.0	14.5	0.0	0.0	0.0	0.0	14.2	24.0	26.0
06	26.0	24.5	24.8	14.0	14.5	0.0	0.0	0.0	0.0	14.2	24.0	25.8
07	22.0	24.5	24.0	14.0	14.5	0.0	0.0	0.0	0.0	25.5	25.0	25.8
08	22.0	24.5	24.0	14.0	14.5	0.0	0.0	0.0	0.0	25.5	25.0	25.8
09	22.0	24.5	24.0	14.0	14.5	0.0	0.0	0.0	0.0	25.5	25.0	25.8
10	22.0	24.5	24.0	14.0	14.5	0.0	0.0	0.0	0.0	25.5	25.0	25.8
11	22.0	24.5	24.0	14.0	14.5	0.0	0.0	0.0	0.0	25.5	25.0	25.8
12	22.0	24.5	24.0	14.0	14.5	0.0	0.0	0.0	0.0	25.5	25.0	25.8
13	22.0	24.5	24.0	14.0	14.5	0.0	0.0	0.0	0.0	25.5	25.0	25.8
14	23.0	25.2	24.0	15.0	14.5	0.0	0.0	0.0	0.0	25.5	25.5	25.0
15	23.0	25.2	23.0	15.0	14.8	0.0	0.0	0.0	0.0	24.5	25.5	25.0
16	23.0	25.2	23.0	15.0	14.8	0.0	0.0	0.0	14.0	24.5	25.5	25.0
17	23.0	25.2	23.0	15.0	14.8	0.0	0.0	0.0	14.0	24.5	25.5	25.0
18	23.0	25.2	23.0	15.0	14.8	0.0	0.0	0.0	14.0	24.5	25.5	25.0
19	23.0	25.2	23.0	15.0	14.8	0.0	0.0	0.0	14.0	24.5	25.5	25.0
20	23.0	25.2	23.0	15.0	14.8	0.0	0.0	0.0	14.0	24.5	25.5	25.0
21	23.0	25.2	26.0	15.0	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
22	24.5	25.5	26.0	15.2	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
23	24.5	25.5	26.0	15.2	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
24	24.5	25.5	26.0	15.2	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
25	24.5	25.5	26.0	15.2	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
26	24.5	25.5	26.0	15.2	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
27	24.5	25.5	26.0	15.2	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
28	24.5	25.5	26.0	14.5	14.2	0.0	0.0	0.0	14.5	24.5	24.0	25.5
29	24.5		25.0	14.5	14.0	0.0	0.0	0.0	14.5	24.5	26.0	25.8
30	26.5		25.0	14.5	14.0	0.0	0.0	0.0	14.2	24.0	26.0	25.8
31	26.5		25.0		14.0		0.0	0.0		24.0		25.8
Total	743.0	708.6	761.5	491.7	447.1	0.0	0.0	0.0	214.7	704.7	741.5	792.3
Mean	24.0	25.3	24.6	16.4	14.4	0.0	0.0	0.0	7.2	22.7	24.7	25.6
Min	22.0	24.5	23.0	14.0	14.0	0.0	0.0	0.0	0.0	14.2	24.0	25.0
Max	26.5	26.5	26.0	25.0	14.8	0.0	0.0	0.0	14.5	25.5	26.0	26.0
Ac-Ft	1473.7	1405.5	1510.4	975.3	886.8	0.0	0.0	0.0	425.9	1397.8	1470.8	1571.4

Calendar Year 2001 Total Cfs: 5605

Total Ac-Ft: 11118

Diversion Name: SMITH DITCH/DUNN AT BILLINGSLEY BAY

Water Dist Div. No.: 410100

Discharge, Cubic Feet Per Second, Calendar Year 2000

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	25.0	26.5	25.0	25.5	14.5	0.0	0.0	0.0	0.0	14.0	24.0	25.0
02	25.0	26.5	25.0	25.5	14.5	0.0	0.0	0.0	0.0	14.0	24.0	25.0
03	25.0	26.5	25.0	25.5	14.5	0.0	0.0	0.0	0.0	14.0	24.0	25.0
04	25.0	26.5	25.0	25.5	14.5	0.0	0.0	0.0	0.0	14.0	24.0	25.0
05	25.0	26.5	25.0	25.5	14.5	0.0	0.0	0.0	0.0	14.0	24.0	25.0
06	25.0	24.5	25.0	25.5	14.5	0.0	0.0	0.0	0.0	14.0	24.0	25.5
07	25.0	24.5	24.5	14.5	14.5	0.0	0.0	0.0	0.0	25.5	25.5	25.5
08	25.0	24.5	24.5	14.5	14.5	0.0	0.0	0.0	14.5	25.5	25.5	25.5
09	25.0	24.5	24.5	14.5	14.5	0.0	0.0	0.0	14.5	25.5	25.5	25.5
10	25.0	24.5	24.5	14.5	14.5	0.0	0.0	0.0	14.5	25.5	25.5	25.5
11	25.0	24.5	24.5	14.5	14.5	0.0	0.0	0.0	14.5	25.5	25.5	25.5
12	25.0	24.5	24.5	14.5	14.5	0.0	0.0	0.0	14.5	25.5	25.5	25.5
13	25.0	24.5	24.5	14.5	14.5	0.0	0.0	0.0	14.5	25.5	25.5	25.5
14	24.5	25.0	24.0	14.5	14.0	0.0	0.0	0.0	14.5	25.5	25.0	25.5
15	24.5	25.0	24.0	14.5	14.0	0.0	0.0	0.0	14.5	24.5	25.0	25.5
16	24.5	25.0	24.0	14.5	14.0	0.0	0.0	0.0	14.5	24.5	25.0	25.5
17	24.5	25.0	24.0	14.5	14.0	0.0	0.0	0.0	14.5	24.5	25.0	25.5
18	24.5	25.0	24.0	14.5	14.0	0.0	0.0	0.0	14.5	24.5	25.0	25.5
19	24.5	25.0	24.0	14.5	14.0	0.0	0.0	0.0	14.5	24.5	25.0	25.5
20	24.5	25.5	25.0	14.5	14.0	0.0	0.0	0.0	14.5	24.5	25.0	25.5
21	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.5	24.5	25.0
22	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
23	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
24	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
25	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
26	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
27	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
28	26.0	25.5	25.0	15.0	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
29	26.0	25.0	25.5	14.5	14.0	0.0	0.0	0.0	14.5	24.0	24.5	25.0
30	26.5		25.5	14.5	14.0	0.0	0.0	0.0	14.0	24.0	25.0	26.0
31	26.5		25.5		14.0		0.0	0.0		24.0		26.0
Total	783.5	733	767.0	505.0	440.5	0.0	0.0	0.0	333.0	699.5	743.0	784.5
Mean	25.3	25.3	24.7	16.8	14.2	0.0	0.0	0.0	11.1	22.6	24.8	25.3
Min	24.5	24.5	24.0	14.5	14.0	0.0	0.0	0.0	0.0	14.0	24.0	25.0
Max	26.5	26.5	25.5	25.5	14.5	0.0	0.0	0.0	14.5	25.5	25.5	26.0
Ac-Ft	1554.1	1453.9	1521.3	1001.7	873.7	0.0	0.0	0.0	660.5	1387.5	1473.7	1556.1

Calendar Year 2000 Total Cfs: 5789

Total Ac-Ft: 11482

Diversion Name: SMITH DITCH/DUNN AT BILLINGSLEY BAY

Water Dist Div. No.: 410100

Discharge, Cubic Feet Per Second, Calendar Year 1999

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	20.5	19.0	21.2	22.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	30.0
02	20.5	19.0	21.2	22.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	30.0
03	20.5	19.0	21.2	22.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	30.0
04	20.5	19.0	21.2	22.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	30.0
05	20.5	19.0	21.2	22.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	30.0
06	20.5	19.0	21.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
07	20.5	21.5	21.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
08	20.5	21.5	21.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
09	20.5	21.5	21.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
10	20.5	21.5	21.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
11	20.5	21.5	21.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
12	20.5	21.5	21.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
13	20.5	21.5	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	30.2	31.5
14	19.5	19.0	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
15	19.5	19.0	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
16	19.5	19.0	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
17	19.5	19.0	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
18	19.5	19.0	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
19	19.5	19.0	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
20	19.5	19.0	21.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
21	19.0	19.0	21.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	28.4	31.0
22	19.0	20.0	21.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	31.0
23	19.0	20.0	21.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	32.0
24	19.0	20.0	21.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	32.0
25	19.0	20.0	21.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	32.0
26	19.0	20.0	21.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	32.0
27	19.0	20.0	21.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	32.0
28	19.0	21.2	22.5	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	32.0
29	19.0		22.5	22.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	32.0
30	19.0		22.5	20.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	29.0
31	19.0		22.5		0.0		0.0	0.0		0.0		29.0
Total	612.0	557.7	658.0	656.1	0.0	0.0	0.0	0.0	0.0	0.0	861.8	963.0
Mean	19.7	19.9	21.2	21.9	0.0	0.0	0.0	0.0	0.0	0.0	28.7	31.1
Min	19.0	19.0	21.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	29.0
Max	20.5	21.5	22.5	22.5	0.0	0.0	0.0	0.0	0.0	0.0	30.2	32.0
Ac-Ft	1213.9	1106.2	1305.1	1301.4	0.0	0.0	0.0	0.0	0.0	0.0	1709.4	1910.1

Calendar Year 1999 Total Cfs: 4309

Total Ac-Ft: 8546

Diversion Name: SMITH DITCH/DUNN AT BILLINGSLEY BAY

Water Dist Div. No.: 410100

Discharge, Cubic Feet Per Second, Calendar Year 1998

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	15.4	16.0	16.0	21.0	12.5	0.0	0.0	0.0	0.0	14.0	14.0	18.2
02	15.4	16.2	16.0	22.0	12.5	0.0	0.0	0.0	0.0	14.0	14.0	18.2
03	15.4	16.2	16.0	22.0	12.5	0.0	0.0	0.0	0.0	14.0	14.0	20.2
04	15.4	16.2	16.0	22.0	12.5	0.0	0.0	0.0	0.0	14.0	14.0	20.2
05	15.4	16.2	16.0	22.0	12.5	0.0	0.0	0.0	0.0	14.0	14.0	20.2
06	15.4	16.2	16.0	22.0	12.5	0.0	0.0	0.0	0.0	14.0	14.0	20.2
07	15.4	16.2	16.0	22.0	11.3	0.0	0.0	0.0	0.0	14.0	14.1	20.2
08	15.4	16.2	16.0	22.0	11.3	0.0	0.0	0.0	0.0	14.0	14.1	20.2
09	15.4	16.2	16.0	22.0	11.3	0.0	0.0	0.0	0.0	14.0	14.1	20.2
10	15.4	16.2	16.0	22.0	11.3	0.0	0.0	0.0	0.0	14.0	14.1	20.2
11	15.4	16.2	16.0	22.0	11.3	0.0	0.0	0.0	0.0	14.0	14.1	20.2
12	15.4	16.2	16.0	22.0	11.3	0.0	0.0	0.0	0.0	14.0	14.1	20.2
13	15.0	16.2	16.0	14.4	11.3	0.0	0.0	0.0	0.0	14.0	14.1	20.2
14	15.0	16.0	18.6	14.4	11.3	0.0	0.0	0.0	0.0	14.2	14.1	21.4
15	15.0	16.0	18.6	14.4	11.0	0.0	0.0	0.0	0.0	14.2	14.4	21.4
16	15.0	16.0	18.6	14.4	11.0	0.0	0.0	0.0	0.0	14.2	14.4	21.4
17	15.0	16.0	18.6	14.4	11.0	0.0	0.0	0.0	0.0	14.2	14.4	21.4
18	15.0	16.0	20.0	14.4	11.0	0.0	0.0	0.0	0.0	14.2	14.4	21.4
19	15.0	16.0	20.0	14.4	11.0	0.0	0.0	0.0	0.0	14.2	14.4	21.4
20	15.0	16.0	20.0	14.4	11.0	0.0	0.0	0.0	0.0	14.2	14.4	21.4
21	15.0	16.4	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	14.4	22.0
22	15.8	16.4	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	16.8	22.0
23	15.8	16.4	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	16.8	22.0
24	15.8	16.4	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	16.8	22.0
25	15.8	16.4	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	16.8	22.0
26	15.8	16.4	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	16.8	22.0
27	15.8	16.4	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	16.8	24.1
28	15.8	16.0	20.0	14.0	11.0	0.0	0.0	0.0	0.0	14.0	18.2	24.1
29	16.0		21.0	12.5	11.0	0.0	0.0	0.0	0.0	14.0	18.2	24.1
30	16.0		21.0	12.5	11.0	0.0	0.0	0.0	0.0	14.0	18.2	24.1
31	16.0		21.0		11.0		0.0	0.0		14.0		24.1
Total	478.4	453.2	565.4	515.2	352.0	0.0	0.0	0.0	0.0	435.4	453.0	660.9
Mean	15.4	16.2	18.2	17.2	11.4	0.0	0.0	0.0	0.0	14.0	15.1	21.3
Min	15.0	16.0	16.0	12.5	11.0	0.0	0.0	0.0	0.0	14.0	14.0	18.2
Max	16.0	16.4	21.0	22.0	12.5	0.0	0.0	0.0	0.0	14.2	18.2	24.1
Ac-Ft	948.9	898.9	1121.5	1021.9	698.2	0.0	0.0	0.0	0.0	863.6	898.5	1310.9

Calendar Year 1998 Total Cfs: 3914

Total Ac-Ft: 7762

Diversion Name: SMITH DITCH/DUNN AT BILLINGSLEY BAY

Water Dist Div. No.: 410100

Discharge, Cubic Feet Per Second, Calendar Year 1997

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	18.0	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
02	18.0	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
03	18.0	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
04	18.0	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
05	18.0	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
06	18.0	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
07	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
08	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
09	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
10	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
11	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
12	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
13	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
14	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
15	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
16	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
17	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
18	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
19	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
20	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
21	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
22	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
23	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
24	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
25	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
26	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
27	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
28	18.0	18.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
29	18.0		21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	17.0	17.0
30	18.0		21.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	17.0	17.0
31	18.0		21.0		0.0		0.0	0.0		14.0		17.0
Total	558.0	504	633.0	294.0	0.0	0.0	0.0	0.0	0.0	434.0	426.0	527.0
Mean	18.0	18.0	20.4	9.8	0.0	0.0	0.0	0.0	0.0	14.0	14.2	17.0
Min	18.0	18.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.0	17.0
Max	18.0	18.0	21.0	21.0	0.0	0.0	0.0	0.0	0.0	14.0	17.0	17.0
Ac-Ft	1106.8	999.7	1255.6	583.1	0.0	0.0	0.0	0.0	0.0	860.8	845.0	1045.3

Calendar Year 1997 Total Cfs: 3376

Total Ac-Ft: 6696

Diversion Name: SMITH DITCH/DUNN AT BILLINGSLEY BAY

Water Dist Div. No.: 410100

Discharge, Cubic Feet Per Second, Calendar Year 1996

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	12.7	12.7	11.1	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
02	12.7	12.7	11.1	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
03	12.7	12.7	11.1	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
04	12.7	12.7	11.1	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
05	12.7	10.9	11.1	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
06	12.7	10.9	11.1	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
07	12.7	10.9	11.1	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
08	12.7	10.9	13.7	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
09	12.7	10.9	13.7	12.7	4.6	0.0	0.0	0.0	0.0	16.3	16.3	19.0
10	12.7	10.9	13.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	16.3
11	12.7	10.9	13.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	16.3
12	12.7	12.7	13.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	16.3
13	12.7	12.7	13.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	16.3
14	12.7	12.7	12.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	16.3
15	12.7	12.7	12.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	16.3
16	12.7	12.7	12.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	16.3
17	12.7	12.7	12.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
18	12.7	12.7	12.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
19	12.7	12.7	12.7	10.9	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
20	0.0	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
21	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
22	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
23	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
24	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
25	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
26	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
27	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
28	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
29	12.7	12.7	12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
30	12.7		12.7	4.6	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
31	12.7		12.7		4.6		0.0	0.0		16.3		19.0
Total	381.0	355.7	388.3	273.9	142.6	0.0	0.0	0.0	0.0	505.3	545.7	570.1
Mean	12.3	12.3	12.5	9.1	4.6	0.0	0.0	0.0	0.0	16.3	18.2	18.4
Min	0.0	10.9	11.1	4.6	4.6	0.0	0.0	0.0	0.0	16.3	16.3	16.3
Max	12.7	12.7	13.7	12.7	4.6	0.0	0.0	0.0	0.0	16.3	19.0	19.0
Ac-Ft	755.7	705.5	770.2	543.3	282.8	0.0	0.0	0.0	0.0	1002.3	1082.4	1130.8

Calendar Year 1996 Total Cfs: 3163

Total Ac-Ft: 6273

WMIS AP02 v3.02 - [Point of Diversion]

File Edit View Insert Format Records Tools Window Help

Point of Diversion

[ALL DISTRICTS]

GPS Site ID Tag

Legal Description

POD Number

07S 13E 11 NWSNW

410011

GPS Site ID Tag

Legal Description

Diversion Name

Follow-up Date

07S 13E 11 NWSNW

BILLINGSLEY BAY HATCHERY

Data Summary

Twp

Rng

Sect

QQQ

1/4 of

QQ

1/4 of

Q

Lot

07S

13E

11

NW

SE

NW

Tag Location

Offset

Bearing

Elevation

GPS File

POD Number

NONE

0

0

0

R060020B

410011

Description

Source

MAIN FISH POND DIV HAS 10' RECT. WEIR. IRR DITCH USES 2' RECT WEIR FORMERLY SMITH DITCH. COMBINED WITH 410100 INTO COMMON DIVERSION WITH A SINGLE 10' WEIR. [CY 2-4-03]

BILLINGSLEY CREEK

Source Qualifier

Tributary to

SNAKE RIVER

Latitude

Longitude

Altitude

Measurement Option

Tributary Qualifier

0

0

0

2889.10

Flowmeter (9)

Nothing

Eastings

Water District

1293188.01

2426349.09

36A

36A

SpatialDataID

131483

Reporter(s)

Network

Use Codes

Access Port

OWNER

Last Name

First Name

Organization

STURDIVANT

PETER

BILLINGSLEY BAY FARMS

Flowmeter

Water Levels

PCC

Site Visit

Timeclock

System

Alternate

Crop History

Water Right

Annual Report

Record: 14

1

of 1

1/29/2004

cynter

Print Data

Reporters

Menu

Record: 14

3661

Select GPS Site ID Tag

NUM

Start

Inbo...

Inbo...

Key ...

Sate...

Arc...

Yah...

Wat...

Doc...

Pol...

2:37 PM

WMIS AP02 v3.02 - [Point of Diversion]

File Edit View Insert Format Records Tools Window Help

Point of Diversion (ALL DISTRICTS)

Print

GPS Site ID Tag: 07S 13E 11 NESENW Legal Description: 07S 13E 11 NESENW POD Number: 410100

GPS Site ID Tag: Legal Description: Diversion Name: Follow-up Date:

07S 13E 11 NESENW SMITH DITCH

Data Summary Twp Rng Sect QQQ 1/4 of QQ 1/4 of Q Lot

07S 13E 11 NE 1/4 of SE 1/4 of NW

Tag Location: Offset: Bearing: Elevation GPS File: POD Number:

0 0 0 410100

Description: FORMERLY SMITH DITCH. COMBINED WITH 410011 INTO COMMON DIVERSION. SEE POD 410011 - BILLINGSLEY BAY FARMS DIVERSION.

Source: BILLINGSLEY CREEK

Source Qualifier:

Latitude: Longitude: Altitude: Measurement Option: Tributary to: SNAKE RIVER

0 0 0 0 0 0.00 Waived [5]

Nothing: 1293255.29 Easting: 2426473.39 Water District: 36A 36A

Tributary Qualifier:

SpatialDataID 131554

Reporter[s]: Network: Use Codes: Access Port:

Flowmeter Water Levels

BCC Site Visit

Timeclock System

Alternate Crop History

Water Right Annual Report

Record: 11 3648

POD Comments

Print Data Reporters Menu

Record: 11 3648

POD Comments

Start Inbo... Inbo... Key ... Sate... Arc... Yah... Wat... Doc... Pol...

2:38 PM

Sturdivant - Hagerman Fish Facility

Summary of flow measurements made by C. E. Brockway, P.E. in 1999

Location	Type of Device	C	L	H	Date	Q
MP1a	Rectangular contracted weir - check boards	3.33	4.83	0.62	2/1/1999	14.58
MP1b	Rectangular contracted weir - check boards	3.33	4.83	0.70	2/1/1999	16.41
MP2	Rectangular suppressed weir check boards, aerating	3.33	4.92	1.00	2/1/1999	16.37
MP3	Rectangular contracted weir - check boards	3.33	3.81	0.50	2/1/1999	9.27
MP4	Open channel current meter measurement					19.75
TOTAL Q						76.39

NOTES:

Measurements were made prior to the facility being reconfigured.

See map for location of measuring points.

Sum of MP1 through MP4 represents total diversion to system, including water directly from

Billingsley creek and over the bluff from the Talbot ponds.

Formula for rectangular contracted weir: $Q = 3.33 H^{3/2} (L - 0.2H)$

Formula for rectangular suppressed weir: $Q = 3.33 L H^{3/2}$

Merritt, Allen

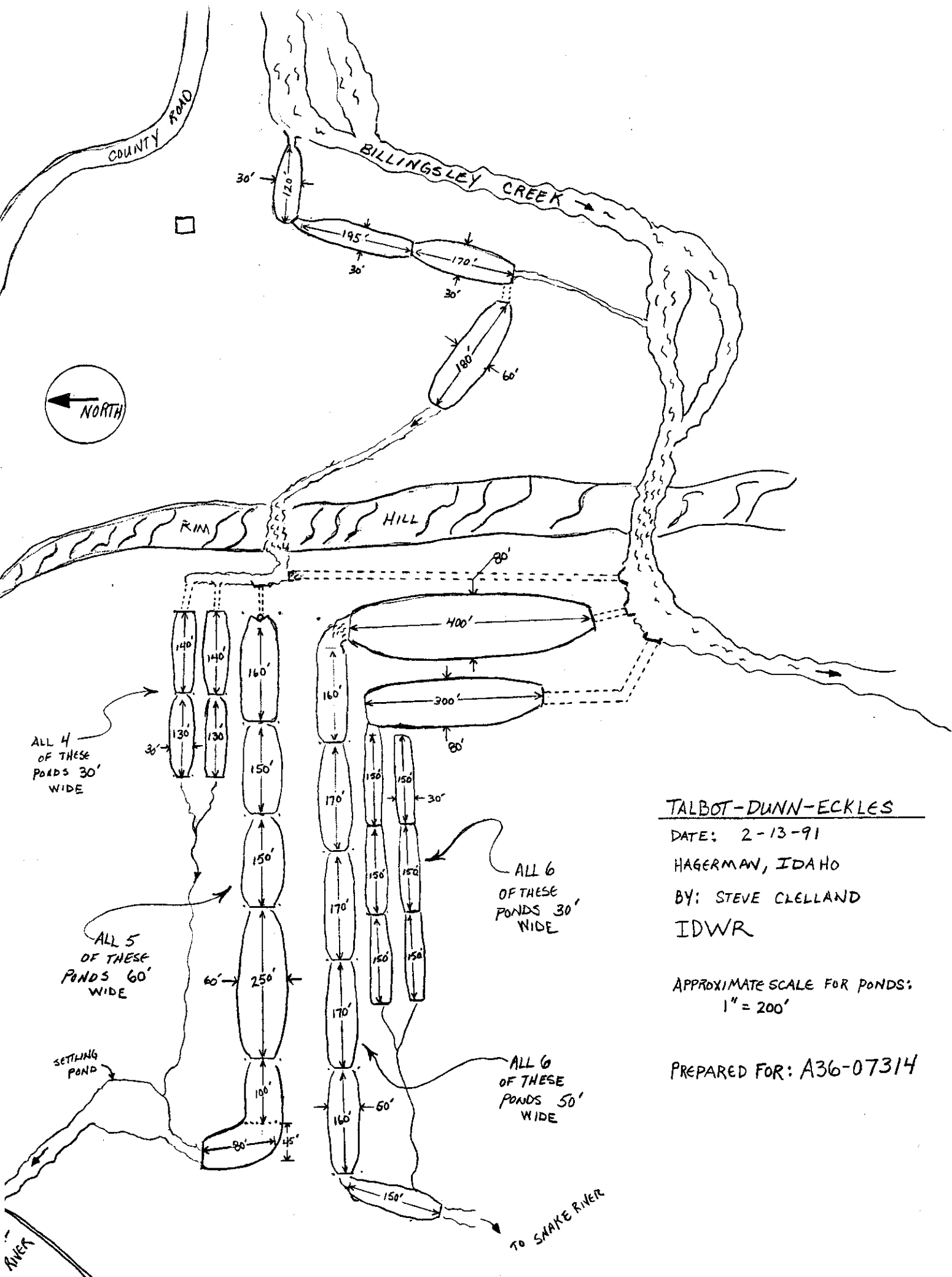
From: Charles Brockway [cbrock4@mindspring.com]
Sent: Tuesday, October 05, 2004 5:05 PM
To: 'Merritt, Allen'
Subject: Sturdivant transfers

Allen:

1. With regard to the parcels along the river on the southern place, Peter says those parcels have been there a long time, certainly at the time the right was decreed. The water right was not split off to these properties.
2. I believe Amy sent you the shape files and the aerial photo in the new coordinate system. Please let her know if it doesn't work.
3. With regard to licensing the outstanding permits and justifying a maximum flow rate. Chuck Sr. made inflow measurements on February 1, 1999 to determine the diversion rate at that time. The measurements were made before the facility was reconfigured, and consisted of head measurements at various check board structures. Using appropriate weir coefficients for contracted and suppressed weirs, I calculate 76.4 cfs compared to the flow records from Cindy Yenter of 76.0 cfs – see the attached spreadsheet. I talked to Peter and he is willing to go with 76 cfs as a combined diversion rate limit on the fish propagation rights (not including the irrigation and aesthetic rights).

Chuck

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TALBOT-DUNN-ECKLES

DATE: 2-13-91

HAGERMAN, IDAHO

BY: STEVE CLELLAND

IDWR

APPROXIMATE SCALE FOR PONDS:
1" = 200'

PREPARED FOR: A36-07314

DUNN, PATSY 36-7750A

Large ponds at Inlet

