

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**Exam Date:**

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

- Relationship to Permit Holder:

- SNAKE RIVER**

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

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

**1. LOCATION OF POINT(S) OF DIVERSION:**

**2.**

**PLACE OF USE:** FISH PROPAGATION

| Twp |     | Rge | Sec       | NE        |           |           |           | NW        |           |           |           | SW        |           |           |           | SE        |           |           |  | Totals |
|-----|-----|-----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--------|
|     |     |     | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> | <u>NE</u> | <u>NW</u> | <u>SW</u> | <u>SE</u> |  |        |
| 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 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 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 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        | 8.50 CFS              |                      |
| <u>Totals:</u>        |                      | 8.50 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

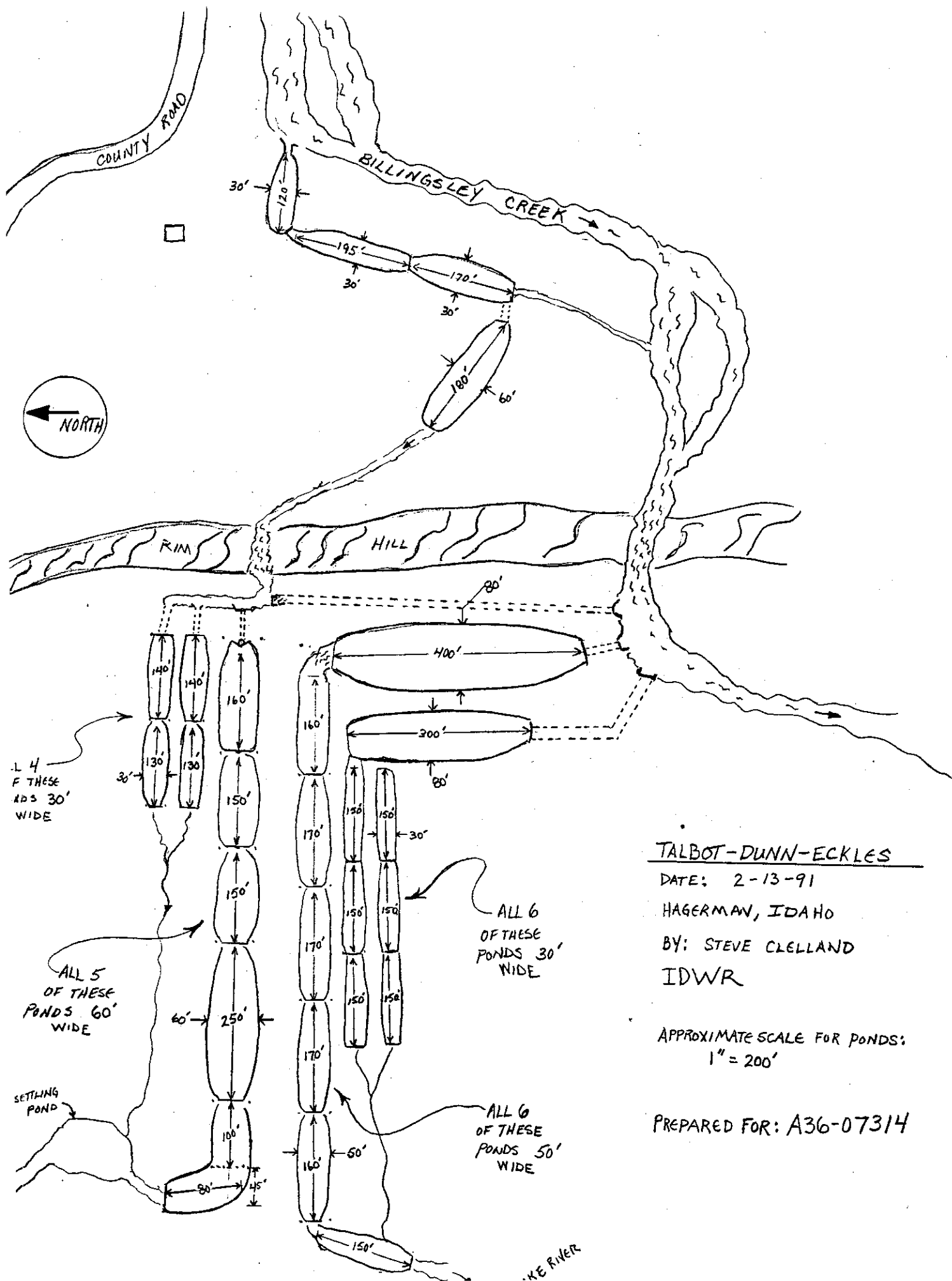


Date

10/18/04

Reviewer

Date



TALBOT-DUNN-ECKLES

DATE: 2-13-91

HAGERMAN, IDAHO

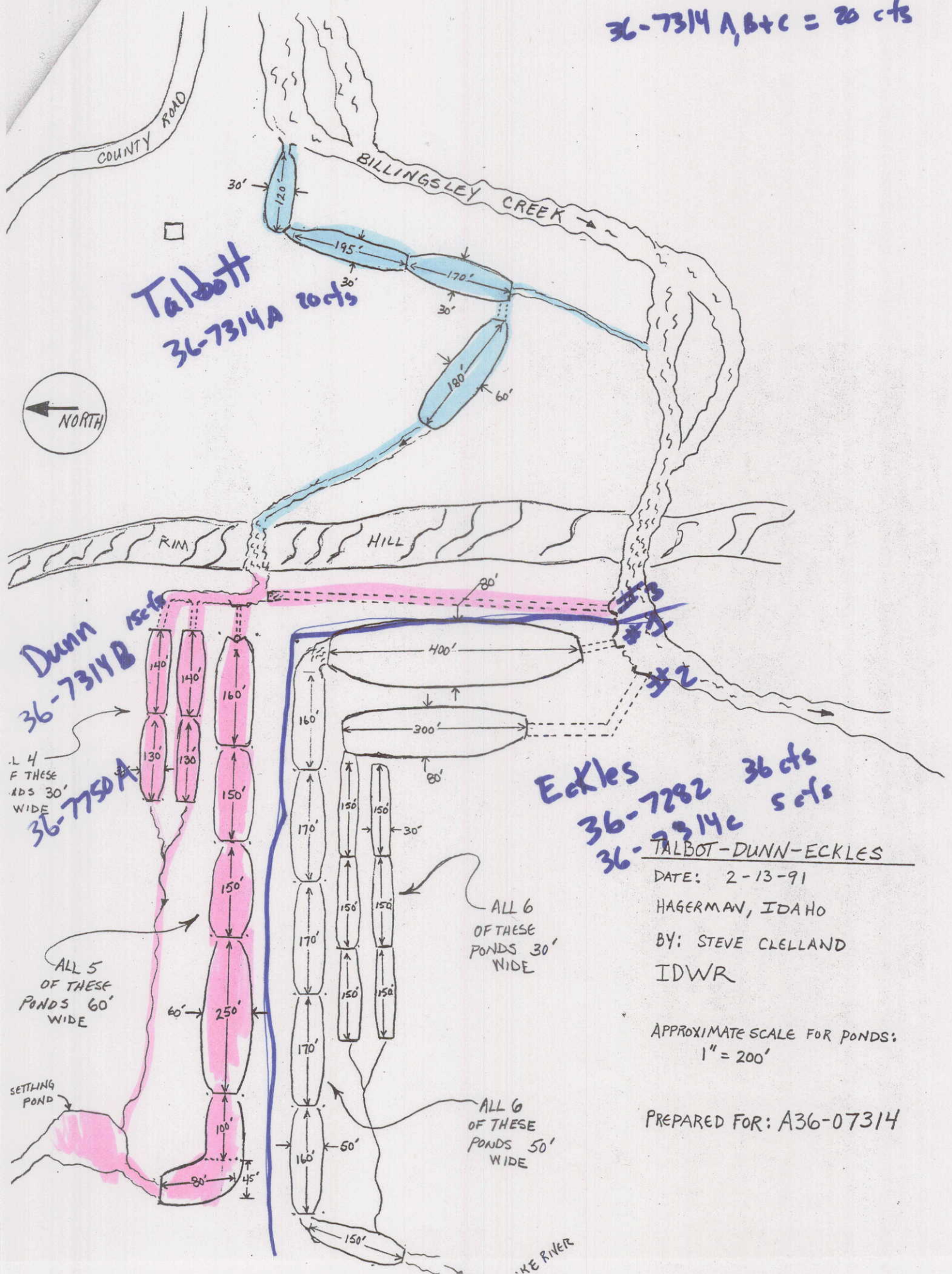
BY: STEVE CLELLAND

IDWR

APPROXIMATE SCALE FOR PONDS:  
1" = 200'

PREPARED FOR: A36-07314

36-7314 A, B+C = 20 cfs



Eckles  
36-7282 36 cfs  
36-7314C 5 cfs

TALBOT-DUNN-ECKLES

DATE: 2-13-91

HAGERMAN, IDAHO

BY: STEVE CLELLAND

IDWR

APPROXIMATE SCALE FOR PONDS:  
1" = 200'

PREPARED FOR: A36-07314

# 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   |
| <b>Total</b> | 1626.8 | 1509   | 1640.0 | 1369.5 | 1118.5 | 0.0 | 0.0 | 0.0 | 1215.0 | 1388.5 | 1412.0 | 1394.0 |
| <b>Mean</b>  | 52.5   | 53.9   | 52.9   | 45.7   | 36.1   | 0.0 | 0.0 | 0.0 | 40.5   | 44.8   | 47.1   | 45.0   |
| <b>Min</b>   | 40.5   | 53.0   | 52.0   | 43.0   | 33.0   | 0.0 | 0.0 | 0.0 | 40.0   | 40.0   | 17.5   | 35.0   |
| <b>Max</b>   | 56.3   | 55.3   | 53.5   | 52.0   | 43.5   | 0.0 | 0.0 | 0.0 | 41.5   | 47.0   | 51.0   | 52.5   |
| <b>Ac-Ft</b> | 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

8.5

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   |
| <b>Total</b> | 1490.0 | 1344   | 1486.5 | 1181.0 | 1164.5 | 1076.5 | 0.0 | 0.0 | 1037.0 | 1056.0 | 1015.5 | 1174.0 |
| <b>Mean</b>  | 48.1   | 48.0   | 48.0   | 39.4   | 37.6   | 35.9   | 0.0 | 0.0 | 34.6   | 34.1   | 33.9   | 37.9   |
| <b>Min</b>   | 47.0   | 47.5   | 47.0   | 37.0   | 37.0   | 35.0   | 0.0 | 0.0 | 34.0   | 33.5   | 33.0   | 33.5   |
| <b>Max</b>   | 49.5   | 49.0   | 49.0   | 47.0   | 38.0   | 37.0   | 0.0 | 0.0 | 35.0   | 34.5   | 35.0   | 40.5   |
| <b>Ac-Ft</b> | 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   |
| <b>Total</b> | 1510.5 | 1419   | 1495.3 | 1223.4 | 1247.2 | 1144.0 | 21.0 | 21.3 | 1155.6 | 1356.6 | 1412.1 | 1522.0 |
| <b>Mean</b>  | 48.7   | 48.9   | 48.2   | 40.8   | 40.2   | 38.1   | 0.7  | 0.7  | 38.5   | 43.8   | 47.1   | 49.1   |
| <b>Min</b>   | 48.0   | 48.0   | 47.1   | 38.7   | 39.2   | 37.7   | 0.7  | 0.7  | 38.1   | 38.7   | 45.4   | 48.0   |
| <b>Max</b>   | 49.5   | 49.5   | 49.2   | 47.1   | 40.8   | 39.2   | 0.7  | 0.7  | 38.7   | 45.5   | 48.0   | 49.5   |
| <b>Ac-Ft</b> | 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   |
| <b>Total</b> | 1271.0 | 1168   | 1271.0 | 961.8  | 21.1 | 19.8 | 20.8 | 21.5 | 20.4 | 20.7 | 846.4  | 886.0  |
| <b>Mean</b>  | 41.0   | 41.7   | 41.0   | 32.1   | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 28.2   | 28.6   |
| <b>Min</b>   | 39.0   | 39.0   | 39.3   | 29.2   | 0.6  | 0.6  | 0.7  | 0.7  | 0.7  | 0.7  | 27.5   | 27.5   |
| <b>Max</b>   | 42.0   | 43.0   | 41.9   | 39.3   | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 0.7  | 28.7   | 30.0   |
| <b>Ac-Ft</b> | 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   |
| <b>Total</b> | 0.0 | 0   | 0.0 | 0.0 | 21.1 | 320.0 | 360.4 | 531.5  | 475.9 | 1014.7 | 1236.2 | 1428.4 |
| <b>Mean</b>  | 0.0 | 0.0 | 0.0 | 0.0 | 0.7  | 10.7  | 11.6  | 17.1   | 15.9  | 32.7   | 41.2   | 46.1   |
| <b>Min</b>   | 0.0 | 0.0 | 0.0 | 0.0 | 0.7  | 0.7   | 10.4  | 13.2   | 13.8  | 14.5   | 40.2   | 42.6   |
| <b>Max</b>   | 0.0 | 0.0 | 0.0 | 0.0 | 0.7  | 13.3  | 13.2  | 19.2   | 17.4  | 40.2   | 42.6   | 47.6   |
| <b>Ac-Ft</b> | 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

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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   |
| <b>Total</b> | 743.0  | 708.6  | 761.5  | 491.7 | 447.1 | 0.0 | 0.0 | 0.0 | 214.7 | 704.7  | 741.5  | 792.3  |
| <b>Mean</b>  | 24.0   | 25.3   | 24.6   | 16.4  | 14.4  | 0.0 | 0.0 | 0.0 | 7.2   | 22.7   | 24.7   | 25.6   |
| <b>Min</b>   | 22.0   | 24.5   | 23.0   | 14.0  | 14.0  | 0.0 | 0.0 | 0.0 | 0.0   | 14.2   | 24.0   | 25.0   |
| <b>Max</b>   | 26.5   | 26.5   | 26.0   | 25.0  | 14.8  | 0.0 | 0.0 | 0.0 | 14.5  | 25.5   | 26.0   | 26.0   |
| <b>Ac-Ft</b> | 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   |
| <b>Total</b> | 783.5  | 733    | 767.0  | 505.0  | 440.5 | 0.0 | 0.0 | 0.0 | 333.0 | 699.5  | 743.0  | 784.5  |
| <b>Mean</b>  | 25.3   | 25.3   | 24.7   | 16.8   | 14.2  | 0.0 | 0.0 | 0.0 | 11.1  | 22.6   | 24.8   | 25.3   |
| <b>Min</b>   | 24.5   | 24.5   | 24.0   | 14.5   | 14.0  | 0.0 | 0.0 | 0.0 | 0.0   | 14.0   | 24.0   | 25.0   |
| <b>Max</b>   | 26.5   | 26.5   | 25.5   | 25.5   | 14.5  | 0.0 | 0.0 | 0.0 | 14.5  | 25.5   | 25.5   | 26.0   |
| <b>Ac-Ft</b> | 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**

| <b>Day</b>   | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 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       |
| <b>Total</b> | 612.0      | 557.7      | 658.0      | 656.1      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 861.8      | 963.0      |
| <b>Mean</b>  | 19.7       | 19.9       | 21.2       | 21.9       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 28.7       | 31.1       |
| <b>Min</b>   | 19.0       | 19.0       | 21.0       | 20.0       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 26.5       | 29.0       |
| <b>Max</b>   | 20.5       | 21.5       | 22.5       | 22.5       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 30.2       | 32.0       |
| <b>Ac-Ft</b> | 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**

| <b>Day</b>   | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 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       |
| <b>Total</b> | 478.4      | 453.2      | 565.4      | 515.2      | 352.0      | 0.0        | 0.0        | 0.0        | 0.0        | 435.4      | 453.0      | 660.9      |
| <b>Mean</b>  | 15.4       | 16.2       | 18.2       | 17.2       | 11.4       | 0.0        | 0.0        | 0.0        | 0.0        | 14.0       | 15.1       | 21.3       |
| <b>Min</b>   | 15.0       | 16.0       | 16.0       | 12.5       | 11.0       | 0.0        | 0.0        | 0.0        | 0.0        | 14.0       | 14.0       | 18.2       |
| <b>Max</b>   | 16.0       | 16.4       | 21.0       | 22.0       | 12.5       | 0.0        | 0.0        | 0.0        | 0.0        | 14.2       | 18.2       | 24.1       |
| <b>Ac-Ft</b> | 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   |
| <b>Total</b> | 558.0  | 504   | 633.0  | 294.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 434.0 | 426.0 | 527.0  |
| <b>Mean</b>  | 18.0   | 18.0  | 20.4   | 9.8   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0  | 14.2  | 17.0   |
| <b>Min</b>   | 18.0   | 18.0  | 18.0   | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0  | 14.0  | 17.0   |
| <b>Max</b>   | 18.0   | 18.0  | 21.0   | 21.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0  | 17.0  | 17.0   |
| <b>Ac-Ft</b> | 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

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 NWSENW

07S 13E 11 NWSENW

410011

GPS Site ID Tag

Legal Description

Diversion Name

Follow-up Date

07S 13E 11 NWSENW

07S 13E 11 NWSENW

BILLINGSLEY BAY HATCHERY

Data Summary

Twp

Rng

Sect

QQQ

1/4 of

QQ

1/4 of

Q

Lot

07S

13E

11

NW

1/4 of

SE

1/4 of

NW

Tag Location

Offset

Bearing

Elevation

GPS File

POD Number

NONE

0

0

0

R0608208

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

Latitude

Longitude

Altitude

Measurement Option

Tributary to

0 0 0

0 0 0

2889.10

Flowmeter (9)

SNAKE RIVER

Northings

Easting

Water District

36A

36A

Tributary Qualifier

1293188.81

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: 1 of 1

1/29/2004

Print Data

Reporters

Menu

Record: 1 of 1

3051

Select GPS Site ID Tag

NUM

Start

Inbo...

Inbo...

Key ...

Sate...

Arc...

Yah...

Wat...

Doc...

Poi...

2:37 PM

WMIS AP02 v3.02 - [Point of Diversion]

File Edit View Insert Format Records Tools Window Help

Point of Diversion

Print

GPS Site ID Tag

Legal Description

POD Number

GPS Site ID Tag

Legal Description

Diversion Name

Follow-up Date

Data Summary

Twp

Rng

Sect

QQQ

1/4 of

QQ

1/4 of

Q

Lot

Tag Location

Offset

Bearing

Elevation

GPS File

POD Number

Description

Source

Source Qualifier

Latitude

Longitude

Altitude

Measurement Option

Tributary to

Tributary Qualifier

Nothing

1293255.29

Easting

2426473.39

Water District

36A

36A

SpatialDataID

131554

Reporter(s)

Network

Use Codes

Access Point

Record

3048

Flowmeter

PCC

Timeclock

Alternate

Water Right

Water Levels

Site Visit

System

Crop History

Annual Report

Print Data

Reporters

Menu

Record: 16

3048

POD Comments

Start

Inbo...

Inbo...

Key ...

Sate...

Arc...

Yah...

Wat...

Doc...

Pol...

NUM

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        |
| <b>TOTAL Q</b> |                                                    |      |      |      |          | <b>76.39</b> |

**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**

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**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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cbrock4@mindspring.com



Eckles, Myrle

36-1750B

