

CONTACT REPORT

**DIVISION OF WATER RIGHTS
STATE WATER RESOURCES CONTROL BOARD**

Subject CSPA Complaint
Yuba River (YRWA, SYBWD
1, CID)

Division Personnel L. Taylor
Complaint Section

Date 1/21/88 Time 11:25

Personal Where _____

Telephone Number _____

Individual(s)/Agency Contacted Mike Meng DFWG
(called me)

Conversation Description Mike said he has completed
a draft study plan for the gabion
structure at Laquerre Point and will
forward a copy to me. Debbie Konnoff, DFWG
will co-ordinate study which should
commence in approx. one week. I told
him myself and Mike Floyd, CWRWQCB, had
been to the goldfields on 4/19/88 and had
taken ^{water} mercury samples at return flow
point. ~1-1.5 miles downstream from
Laquerre Point Dam to check for mercury.

Decision(s) _____

Action Items _____

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Sent by Mike Meiny DFG.
This outlines a study to be
conducted on the fish gabion
constructed by SYND at Laguerre
Point. The 1984 Agreement between
DFG & SYND provided for mon-
itoring the effectiveness of the
gabion to determine if modifi-
cations are necessary. Also
included is a report on work already
completed. SIT

APR 22 1988

Taylor

South Yuba/Brophy Irrigation Diversion Study
Draft Study Plan 1988

I. Purposes:

- A. Determine percent survival of migrating juvenile salmon encountering the Grave/Gibbon Screen Complex (GGSC) at the intake of the South Yuba/Brophy Irrigation Diversion, Yuba River.
- B. Determine if bypass flows are 10 percent of the diverted quantity.

II. Methods:

A. Survival of migrating juvenile salmon

- 1. Release measured (FL) and marked juvenile salmon in the intake channel of GGSC.

- o Treatments:

- o Daylight Release - Dorsal caudal clip
- o Night Release - Ventral caudal clip

- o 200-400 salmon trickle released/treatment.
- o Replicates - 3 day/night releases.
- o Replicate Frequency - 3 to 4 day intervals.
- o Marks rotated between day and night releases to eliminate marked bias.

- o Controls:

- o a) Handling control for each treatment - 25 salmon held in live car for duration of treatment.

- o b) Electrofish upstream of intake barrier after salmon released.

- o Source of Juvenile Salmon - Trap at Hallwood Cordua Canal.

2. Recovery of Marked Salmon

- o Trap in Bypass: Incline plain trap or fyke checked every two hours.

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OFFICE OF THE
CHIEF COUNSEL
SWRCB

- o Control: 25 adipose marked salmon released directly into trap during treatment to check trap efficiency.
- o Electrofish:
 - a. Behind GGSC during each treatment.
 - b. In front of GGSC and in bypass canal at the completion of each treatment.
 - c. Examine predator stomachs.
- o Measure (FL) recovered marked salmon.

B. Determining of Adequate Bypass Flows

- 1. Measure Intake Flows
- 2. Measure Bypass Flows

III. Analysis

A. Survival of Migrating Juvenile Salmon

- 1. Calculate percent lost.
- 2. Established significance of loses with paired variate analysis comparing treatment release to recaptures i.e. Chi-Square or Students T.
- 3. Findings adjusted based on controls.

B. Determination of Adequate Bypass Flows

- 1. Calculate percent bypassed.
- 2. Compare with required 10 percent as defined in Exhibit D, Stipulated Judgment No. 36092, Superior Court of California, County of Yuba.

IV. Equipment:

A. Survival of Migrating Juvenile Salmon

- 1. Release of Measured and Marked Salmon
 - o 100 feet of 1/4 inch hardware cloth

- o Metal fence posts - 21
 - o Fin clippers
 - o Anesthetic
 - o Two live cars for controls
 - o Cotton gloves
 - o Lantern/fuel or batteries
 - o Jet boat (Electrofishing) USFWS
 - o Tools
 - o Clipboards/pencils
 - o Data forms
 - o Waders
 - o Life jackets
 - o Plastic garbage cans to transport salmon
 - o O₂ - Kopperdahl
 - o Dip nets
 - o Measuring boards
 - o Sledge hammer
 - o Wire to attach hardware cloth to posts
 - o Wet suits?
2. Recovery of Marked Salmon
- o Inclined Plain Traps (3) or fyke with 50 foot 1/4" hardware cloth leads
 - o If fyke used -- 20 metal fence posts
 - o Anesthetic
 - o Dip nets

- o Clipboards/forms
- o Measuring boards
- o Electrofishing equipment
 - a. Hiscox's boat for behind GGSC
 - b. USFWS boat for upstream of GGSC
 - c. Back Pack Shocker for bypass canal
- o Cotton gloves
- o Lantern - fuel/batteries
- o Tools
- o Life jackets
- o Rubber gloves - electrifies
- o Sledge hammer
- o Wire
- o Knife
- o Wet suits

B. Determining Adequate Bypass Flows

- o Waders
- o Top setting rod
- o Note paper/pencils
- o 100 foot measuring tape
- o Marsh McBriney flow meter
(Bill Snider or USFWS)

V. Available Personnel

A. Department of Fish and Game

Debbie Konhoff
Debbie's seasonal

Bill Somer ?
Phil Hansen ?
John Hiscox (days)
Carolyn Doody (Seasonal) NWFSS
Kellie Berry (Seasonal) FSS

B. U.S. Fish and Wildlife Service

Rich Dehaven - 4 days minimum
(916) 978-4613

C. State Water Resources Control Board

Sid Taylor - one day
(916) 324-5737

Draft prepared by: Mike Mainz
Associate Fisheries Biologist
Department of Fish and Game
(916) 355-7030

Attachment

cc: D. Konhoff, DFG
R. Dehaven, USFWS
S. Taylor, BWR 50226