

**MINUTE ITEM**  
This Calendar Item No. C07  
was approved as Minute Item  
No. 2 by the State Lands  
Commission by a vote of 3  
to 0 at its 3/23/89  
meeting.

CALENDAR ITEM

A 1  
S 4

C 07

03/23/89  
W 24137  
J. Ludlow  
PRC 7286

GENERAL PERMIT - PUBLIC AGENCY USE

APPLICANT: United States Bureau of Reclamation  
2800 Cottage Way  
Sacramento, California 95825-1898

AREA, TYPE LAND AND LOCATION:  
Two parcels of land totaling 4.413 acres of  
submerged land located in the Sacramento River,  
Tehama County.

LAND USE: Continued use and maintenance of an existing  
diversion dam, the construction of fish bypass  
system, and dredge a maximum of 5,000 cubic  
yards of material with disposal on land along  
the Corning Canal.

TERMS OF PROPOSED PERMIT:  
Initial period: 49 years beginning November 1,  
1988.

CONSIDERATION: Royalty: No royalty for dredged material  
deposited at the approved disposal site because  
the project is for the public benefit.

The public use and benefit; with the State  
reserving the right at any time to set a  
monetary rental if the Commission finds such  
action to be in the State's best interest.

BASIS FOR CONSIDERATION:  
Pursuant to 2 Cal. Code Regs. 2003.

APPLICANT STATUS:  
Applicant is owner of upland.

CALENDAR ITEM NO. 007 (CONT'D)

PREREQUISITE CONDITIONS, FEES AND EXPENSES:  
Filing fee has been received.

STATUTORY AND OTHER REFERENCES:

- A. P.R.C.: Div. 6, Parts 1 and 2; Div. 13.
- B. Cal. Code Regs.: Title 2, Div. 3;  
Title 14, Div. 6.

AB 884: 05/13/89.

OTHER PERTINENT INFORMATION:

1. A Finding Of No Significant Impact (FONSI) was prepared and adopted for this project by United States Bureau of Reclamation. The document was circulated for public review as broadly as State and local law may require and notice was given meeting the standards in 14 Cal. Code Regs. 15072(a). Therefore, pursuant to 14 Cal. Code Regs. 15225, the staff recommends the use of the federal FONSI in place of the Negative Declaration.
2. The annual rental value of the site is estimated to be \$1,188.
3. This activity involves lands identified as possessing significant environmental values pursuant to P.R.C. 6370, et seq. Based upon the staff's consultation with the persons nominating such lands and through the CEQA review process, it is the staff's opinion that the project, as proposed, is consistent with its use classification.
4. The fish facilities at the Red Bluff Diversion Dam include the main fish ladders at the right and left abutments and a fish trap with a secondary ladder on the left bank fish ladder. The fish passage facilities provide the means for adult salmon, steelhead, American shad, and other anadromous and native fish to bypass the dam. At the fish trap, adult salmon can be selected for transfer to the Tehama-Colusa Canal Fish Facilities spawning channels or other facilities.

CALENDAR ITEM NO. C 07 (CONT'D)

5. The proposed action would add a new intake bay to the headworks and a new fish screen bypass system to replace the existing fish louver and bypass. The new bay would be the same size and have the same configuration as the existing bays. The proposed action would increase the amount of water that could be diverted and thereby allow the headworks to reach its design capacity.
6. The project will also include dredging a maximum of 5,000 cubic yards of material other than oil, gas and geothermal, which will be disposed of on land along the Corning Canal.
7. The Applicant has requested that the processing fee be waived due to the fact that the project will benefit the anadromous fisheries of the Sacramento River by improving fish passage facilities. Since the primary purpose of the project is to benefit fisheries of the State (Chinook salmon, steelhead, shad, and other anadromous fish), a statewide public benefit will be derived from the project.

APPROVALS OBTAINED:

United States Army Corps of Engineers.

FURTHER APPROVALS REQUIRED:

Department of Fish and Game.

EXHIBITS:

- A. Land Description.
- B. Location Map.
- C. Finding of No Significant Impact.

IT IS RECOMMENDED THAT THE COMMISSION:

1. FIND THAT THE FINDING OF NO SIGNIFICANT IMPACT PREPARED AND ADOPTED FOR THIS PROJECT BY UNITED STATES BUREAU OF RECLAMATION MEETS THE REQUIREMENTS OF THE CEQA THEREFORE PURSUANT TO 14 CAL. CODE REGS. 15225 ADOPT SUCH FEDERAL DOCUMENT FOR USE IN PLACE OF THE NEGATIVE DECLARATION. DETERMINE THAT THE PROJECT, AS APPROVED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.

CALENDAR ITEM NO. C 07 (CONT'D)

2. FIND THAT IT IS IN THE STATE'S BEST INTEREST TO WAIVE THE PROCESSING FEE.
  
3. AUTHORIZE, CONTINGENT ON THE CONSUMMATION OF A STREAMBED ALTERATION AGREEMENT WITH THE DEPARTMENT OF FISH AND GAME, ISSUANCE TO THE UNITED STATES BUREAU OF RECLAMATION OF A 49-YEAR GENERAL PERMIT - PUBLIC AGENCY USE, BEGINNING NOVEMBER 1, 1988; IN CONSIDERATION OF THE PUBLIC USE AND BENEFIT, WITH THE STATE RESERVING THE RIGHT AT ANY TIME TO SET A MONETARY RENTAL IF THE COMMISSION FINDS SUCH ACTION TO BE IN THE STATE'S BEST INTEREST; FOR THE CONTINUED USE AND MAINTENANCE OF AN EXISTING DIVERSION DAM, CONSTRUCTION AND MAINTENANCE OF A FISH BYPASS SYSTEM, AND THE DREDGING AND DISPOSING OF A MAXIMUM OF 5,000 CUBIC YARDS OF MATERIAL ON THE LAND DESCRIBED ON EXHIBIT "A" ATTACHED AND BY REFERENCE MADE A PART HEREOF.

**EXHIBIT "A"**

**LAND DESCRIPTION**

**W 24137**

Two parcels of submerged land in the bed of the Sacramento River in the NE 1/4 of section 33, T 27 N, R 3 W, MDM, Tehama County, California, described as follows:

**PARCEL -1**

All that land lying immediately beneath the Red Bluff Diversion Dam and new intake bay TOGETHER WITH a necessary use area extending 10 feet from the extremities of said dam and new intake bay.

EXCEPTING THEREFROM any land lying landward of the ordinary low water mark of the Sacramento river.

**PARCEL -2**

All that land lying immediately beneath the fish bypass pipes which lay down stream of the Red Bluff Diversion Dam and are part of the facilities TOGETHER WITH a necessary use area extending 5 feet from the extremities of said pipes.

EXCEPTING THEREFROM any land lying landward of the ordinary low water mark of the Sacramento River.

PREPARED OCTOBER 4, 1988 BY BIU 1.

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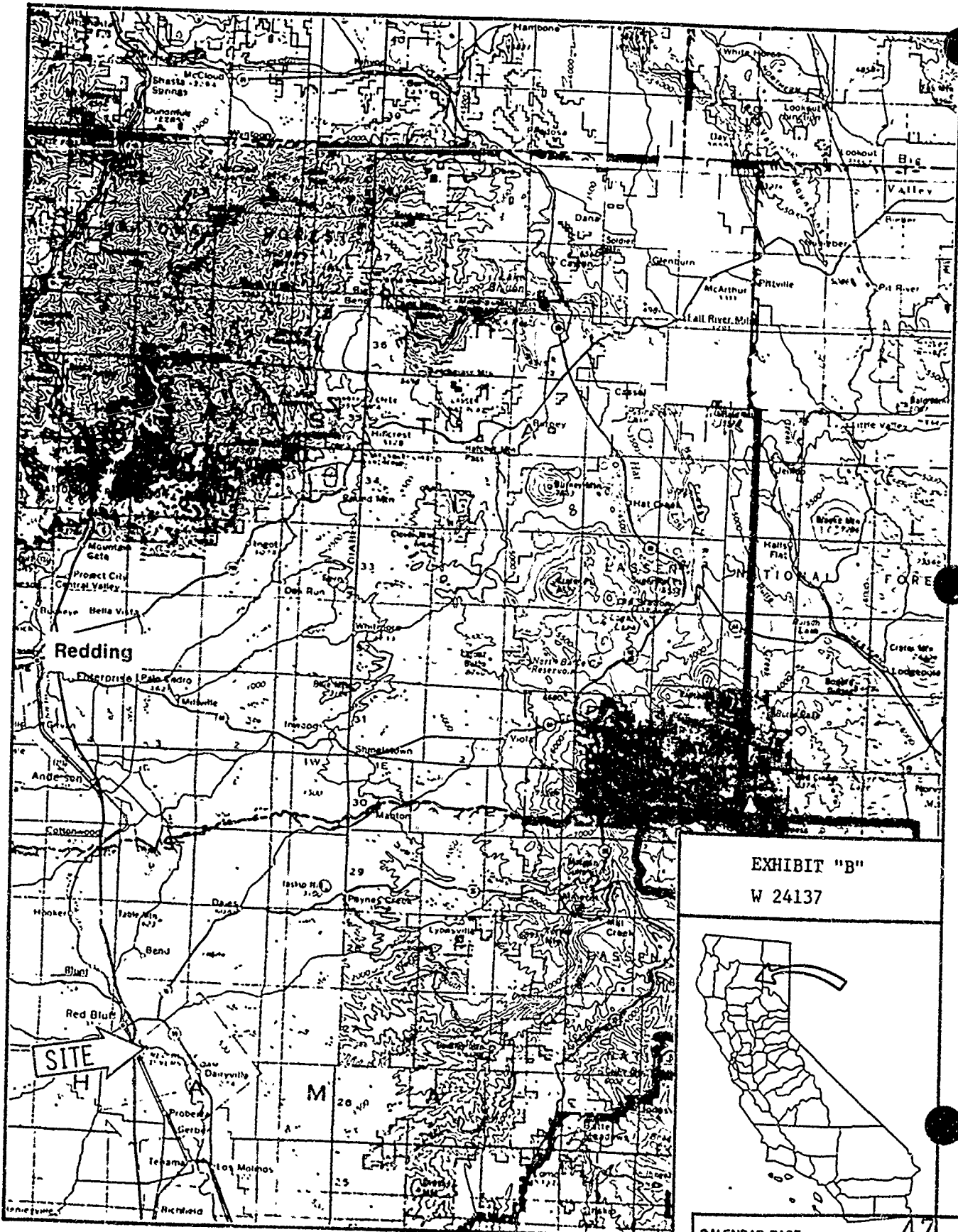


EXHIBIT "B"  
W 24137



EXHIBIT C

FINDING OF NO SIGNIFICANT IMPACT  
CONSTRUCTION OF A FISH SCREEN AND BYPASS SYSTEM AND WATER INTAKE BAY  
TEHAMA-COLUSA CANAL

In accordance with the National Environmental Policy Act of 1969, as amended, the Mid-Pacific Regional Office of the U.S. Bureau of Reclamation has determined that an Environmental Impact Statement is not required for the construction of a fish screen and bypass system and a water intake bay at the Tehama-Colusa Canal. The new facilities would bring the headworks of the canal to design capacity and correct problems associated with the present fish diversion system.

The proposed action would add a new 630 ft<sup>3</sup>/s intake bay adjacent to the existing bays, a new fish screen facility in the existing settling basin, and a new bypass system to safely convey fish from the screen to the middle of the Sacramento River downstream of the Red Bluff Diversion Dam. The proposed action would also include restrictions on work in the Sacramento River for the protection of salmon and planting of riparian vegetation.

Based on the following considerations, it has been determined that this Finding of No Significant Impact is appropriate:

1. The proposed action is intended to correct problems associated with present and future operation of the Tehama-Colusa Canal and the Tehama-Colusa Canal Fish Facilities.
2. The design and placement of the fish screen and bypass system were developed in cooperation with and on the basis of information provided by concerned fishery agencies including the National Marine Fisheries Service, the U.S. Fish and Wildlife Service, and the California Department of Fish and Game.
3. Existing operations at the Tehama-Colusa and Corning Canals will be

maintained throughout the construction process.

4. The bypass system will safely return diverted fish to the river and reduce fish losses due to entrainment and predation. Construction will temporarily displace resident fish and disturb chinook spawning gravels. Placement of temporary structures in the Sacramento River needed for construction purposes will be restricted to the period May 1 through August 31 on the recommendation of fishery biologists to minimize any impact to salmon.
5. Slight and temporary effects would occur to hydrology and water quality during construction. Necessary permits for the placement or discharge of material will be obtained prior to construction.
6. Land areas disturbed by construction have been previously disturbed during construction of the Red Bluff Diversion Dam. An exception is a narrow strip of riparian vegetation along the bank of the Sacramento River. All disturbed areas will be regraded and groomed and the riparian area revegetated.
7. Construction will conform to all applicable State and local floodplain and wetland protection standards.
8. There will be no direct impact to threatened or endangered species. Up to two elderberry plants, a potential host species of the threatened valley elderberry longhorn beetle, may be destroyed. This potential habitat will be replaced as part of the riparian revegetation.
9. There will be no impact to cultural resources.
10. Impacts to recreation during construction will be minor. Any waterway markers needed to warn boaters of in river structures will be placed in accordance with State requirements.
11. A draft Environmental Assessment was distributed for public review. All comments received have been considered and accomodated as appropriate.



### Summary

The Tehama-Colusa Canal (TCC) headworks are unable to pass the maximum design flows. The design capacity is 3180 ft<sup>3</sup>/s plus an additional 275 ft<sup>3</sup>/s required for fish ladder diffuser flows, for a total design capacity of 3455 ft<sup>3</sup>/s. The headworks measured total capacity, however, is only 2928 ft<sup>3</sup>/s.

The TCC louver fish diverter is inefficient at returning small fish to the river. Estimates have reached as high as 90,000 fry entrained in a single day at flows of 500 to 850 ft<sup>3</sup>/s.

The proposed action would add a new intake bay to the headworks and a new fish screen and fish bypass system to replace the existing fish louver and bypass. The new bay would be the same size and have the same configuration as the existing bays. The proposed action would increase the amount of water that could be diverted by 630 ft<sup>3</sup>/s and thereby allow the headworks to reach its design capacity.

The design and placement of the new fish screen system has been developed on the basis of information provided by the National Marine Fisheries Service, U.S. Fish and Wildlife Service, and California Department of Fish and Game. The proposal includes 32 horizontal rotating drum screens fitted with perforated plate screen. The drums would extend diagonally across the TCC settling basin immediately downstream of the headworks. The screened fish would be conveyed through a bypass system which will return them to the river's main channel.

The alternative action includes the intake bay and screen of the proposed action but the screen would be located approximately 2000 feet downstream in the settling basin adjacent to the Corning Canal pumping plant rather than near the TCC headworks. A No Action situation is also analyzed.

The proposed action would not alter existing land uses or floodplains, and diversions in excess of those permitted under existing contracts would not occur as a result of the project. Slight and temporary effects would occur to hydrology and water quality during construction. Contract specifications will limit the allowable turbidity in the river caused by construction. Temporary instream structures will alter flow patterns in the immediate area of the structures. All work will be in compliance with state and federal requirements for discharge of water and placement of material in the river.

A strip of riparian vegetation along the river would be disturbed by the placement of the bypass pipeline. Following construction, the disturbed area would be revegetated. Native trees would be established at a ratio of three trees planted for each native tree removed. The remainder of the land area disturbed by construction consists of disturbed, graveled, and earth covered areas. These areas would be regraded and groomed upon completion of construction.

The bypass system would safely return diverted fish to the river and reduce fish losses due to entrainment and predation. Construction of the bypass would temporarily displace resident fish and disturb chinook salmon spawning gravels. Placement of structures in the river to isolate the construction area would be restricted to the period between May 1 and August 31. Salmon are not expected to be using the gravels during this period. Noise from the sheetpile construction may temporarily delay the upstream migration of 10-15% of the winter run and about 20% of the spring run.

The project would not impact endangered or threatened species or critical habitat. There would be no affect on cultural resources or recreation.

The alternative action would have the same impacts as the proposed action except diverted fish would be subjected to predation in the settling basin.