STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

In the Matter of Permit 12722 (Application 9363)

U.S. Bureau of Reclamation

ORDER APPROVING CHANGE IN PLACE OF USE AND AMENDING THE PERMIT

SOURCE: Old River

COUNTY: Contra Costa

WHEREAS:

1. Permit 12722 was issued to U.S. Bureau of Reclamation on April 12, 1961, pursuant to Application 9363.

2. A petition to change the place of use was filed with the State Water Resources Control Board (SWRCB) on May 23, 2001, and the SWRCB has determined that good cause for such change has been shown. Public notice of the change was issued on November 16, 2001, and no protests were received.

3. The SWRCB has determined that the petition for change in place of use does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water.

NOW, THEREFORE, IT IS ORDERED THAT PERMIT 12722 IS AMENDED TO READ AS FOLLOWS:

1. The place of use as shown on USBR Map No. 214-208-12581 on file with the Board, and as further delineated in the GIS maps on file with the Board and attached to Board Decision 1641, is amended to include the following:

   71 acres within E½ of Section 12, T14S, R11E, MDB&M.
   160 acres within NW¼ of Section 29, T14S, R12E, MDB&M.

3. All other conditions of Permit 12722 are still applicable.

STATE WATER RESOURCES CONTROL BOARD

Edward C. Anton, Chief
Division of Water Rights

Dated: JUL 2 9 2002

STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

In the Matter of Permit 12722 (Application 9363)
U.S. Bureau of Reclamation

ORDER APPROVING CHANGE IN PLACE OF USE AND AMENDING THE PERMIT

SOURCE: Sacramento River

COUNTY: Shasta

WHEREAS:

1. Permit 12722 was issued to U.S. Bureau of Reclamation on April 12, 1961, pursuant to Application 9363.

2. A petition to change the place of use was filed with the State Water Resources Control Board (SWRCB) on November 21, 1996, and the SWRCB has determined that good cause for such change has been shown. Public notice of the change was issued on March 12, 1997, and the protests have been resolved.

3. The SWRCB has determined that the petition for change in place of use does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water.

NOW, THEREFORE, IT IS ORDERED THAT PERMIT 12722 IS AMENDED TO READ AS FOLLOWS:

1. The place of use as shown on USBR Map No. 214-208-12480 on file with the SWRCB, and as further delineated in the GIS maps on file with the SWRCB and attached to SWRCB Decision 1641, is amended to include the following:

   30,000 net acres within a gross area of 70,000 acres within the Pajaro Valley Water Management District, as shown on USBR Map No. 214-208-12480 dated November 1, 1996, on file with the SWRCB.

2. All other conditions of Permit 12722 are still applicable.

STATE WATER RESOURCES CONTROL BOARD

for *Edward C. Anton, Chief*
Division of Water Rights

Dated: JUL 1 9 2002

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

IN THE MATTER OF PERMIT 12721, ET AL. (APPLICATION 5626, ET AL.) OF
U.S. BUREAU OF RECLAMATION AND
CALIFORNIA DEPARTMENT OF WATER RESOURCES,
PETITIONERS

ORDER APPROVING TEMPORARY CHANGE OF EFFECTIVE DATE OF
SUISUN MARSH CHANNEL SALINITY OBJECTIVES

BY BOARD MEMBER JAMES M. STUBCHAER

1.O INTRODUCTION

On September 19, 1997, the California Department of Water Resources (DWR) and the U.S. Bureau of Reclamation (USBR) jointly filed a petition for Temporary Urgency Change with the State Water Resources Control Board (SWRCB), pursuant to Water Code section 1435 et seq., requesting a delay in the date when their water right permits will require them to meet channel water salinity objectives at compliance stations S-35 (Goodyear Slough at Morrow Island Clubhouse) and S-97 (Cordelia Slough at Ibis Club). Temporary changes authorized under section 1435 et seq. expire 180 days after date of issuance, after which they may be renewed.

I am delegated authority to approve this temporary urgency change, pursuant to Water Code section 1435(d) and SWRCB Resolution No. 97-006, section 1.3.

2.O SUBSTANCE OF THE PETITION

The DWR and the USBR are, essentially, requesting that the SWRCB, under Water Code 1435 et seq., temporarily relieve them of the obligation to meet channel water salinity standards at two western Suisun Marsh stations, S-35 and S-97. Granting their petition would delay the effective date for meeting the salinity standards at these two stations. In the absence of this Order, the standards for these two stations would become effective in October 1997, and would have to be in compliance by the end of October 1997.

3.0 BACKGROUND

Under SWRCB Order WR 95-6, the water rights held by the DWR and the USBR for operation of the State Water Project (SWP) and the Central Valley Project (CVP) require compliance with salinity objectives for the Suisun Marsh. The effective date for meeting the last of the salinity objectives to be met, in the western Suisun Marsh, is October, 1997. The Suisun Marsh salinity objectives in Order WR 95-6 implement aspects of the

May 1995 Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (1995 Bay-Delta Plan). The objectives are intended to protect the beneficial uses of the Suisun Marsh as a brackish tidal marsh and to ensure a continued supply of water for waterfowl food plant production.

The 1995 Bay-Delta Plan's numeric salinity objectives for three locations in the eastern marsh and four locations within the western marsh (see Figure 1) are based on the Suisun Marsh Preservation Agreement (SMPA) executed in 1987 by the DWR, the USBR, the California Department of Fish and Game (DFG) and the Suisun Resource Conservation District (SRCD). The objectives establish the maximum monthly average of electrical conductivity (EC) levels of both daily high tide EC values (mmhos/cm @ 25°C), for each month during the October through May period. The objectives for the eastern marsh and for station S-21 in the western marsh are currently in effect and are being met. In the absence of this Order, the western marsh channel water salinity objectives at S-97, S-35 and S-42 all would be in effect for the first time in October 1997. Order WR 95-6 requires the DWR and the USBR to either comply with the Suisun Marsh channel water salinity objectives or demonstrate that other actions undertaken by the permittees will provide equivalent or better protection to the managed wetlands.

In July 1995 the DWR, the USBR, the DFG and the SRCD began negotiating an update (Amendment Three) to the SMPA. The parties have agreed, based on technical analysis, that additional large scale facilities are not needed for salinity control in the Marsh because the Suisun Marsh Salinity Control Gates are effective in controlling the salinity in most areas of the Suisun Marsh. In lieu of new large facilities the parties have proposed a series of management actions which are consistent with the SMPA objectives of (1) improving water and habitat management throughout the marsh, (2) lowering diversion water salinity and soil water salinity on western Marsh managed wetlands and (3) providing funds to managed wetlands for more intensive management activities during prolonged drought conditions.

The parties are in the final phases of negotiating Amendment Three, and expect to execute it within the next several months. Amendment Three requires the parties to the SMPA to carry out a series of twelve management actions to improve water quality and habitat conditions within the managed wetlands of the Marsh. When Amendment Three has been executed, the parties will seek SWRCB concurrence that the management actions required by Amendment Three will provide protection to the managed wetlands which is equivalent to or better than that provided by the numeric channel water salinity standards. Until Amendment Three is executed, the DWR and the USBR allege that they have an urgent need to be relieved temporarily from the requirement to meet the salinity standards for stations S-35 and S-97.

nearly as possible the procedures for changes in point of diversion, place of use, or purpose of use when processing petitions for other types of changes in water right permits and licenses. Accordingly, the procedures under section 1435 are applicable to changes to water right permits and licenses that the SWRCB approves pursuant to its duty of continuing supervision over the diversion and use of water.

The SWRCB must make the findings specified in section 1435(b) before issuing a temporary change order pursuant to Chapter 6.6. The required findings are:

(1) The permittee or licensee has an urgent need to make the proposed change.

(2) The proposed change may be made without injury to any other lawful user of water.

(3) The proposed change may be made without unreasonable effect upon fish, wildlife, or other instream beneficial uses.

(4) The proposed change is in the public interest, including findings to support change order conditions imposed to ensure that the change is in the public interest, and may be made without injury to any other lawful user of the water, and without unreasonable effect upon fish, wildlife, and other instream beneficial uses.

5.1 Urgency of the Proposed Change

Under Chapter 6.6, an urgent need to make a proposed change exists when the SWRCB concludes that the proposed temporary change is necessary to further the constitutional policy that the water resources of the state be put to beneficial use to the fullest extent of which they are capable and that waste of water be prevented. An urgent need does not exist, however, if the petitioner has failed to exercise due diligence either in petitioning for a change pursuant to other provisions of Division 2 of the Water Code or in pursuing the petition for change.

The permittees have an urgent need for the proposed temporary change because without the change the requirement to meet the salinity standards at stations S-35 and S-97 will be in effect immediately, and the DWR and the USBR will be required to meet the salinity standards. Meeting the standards at this time would require the devotion of substantial quantities of water to diluting salinity in the channels of the western Suisun Marsh, and would not provide an opportunity to test some of the management actions. The purpose of meeting the salinity standards in the channels is to achieve soil water salinities that will support plants characteristic of a brackish marsh. The DWR and the USBR have provided information that indicates that the planned management actions using less water, and using the water more effectively, will achieve the same results as meeting the standards or will achieve better results, while minimizing the use of fresh water. The DWR and USBR

should be given the opportunity to put this program in place and make the argument that such a program provides benefits equivalent to providing in-channel salinity control.

5.2 No Injury to Any Other Lawful User of Water

Morrow's objection may be intended to express a concern that the proposed temporary change could work an injury on Morrow's use of water. Morrow does not specifically allege that it is a legal user of water. Assuming that Morrow is a legal user of the water in the channels of the Suisun Marsh, I find that the proposed change will not injure Morrow's use of water. Impacts on instream beneficial uses, which may also be considered legal users of water to the extent that those uses are protected by the public trust or other legal doctrines, are discussed in section 5.3.

The DWR and USBR will be able to implement some management measures under the authority of the existing SMPA without completing their environmental documentation. The management measures that the permittees intend to implement during the period of the temporary change can be expected to improve the soil salinity conditions compared with previous conditions, by making better use of the channel water. This should be beneficial to Morrow, not injurious. The western Suisun Marsh standards at S-35 and S-97 have never been met through specific water project operations. A six-month delay in implementing these standards developed to protect wildlife resources may or may not provide the expected benefits, but will not cause new injury to other legal users of water.

5.3 No Unreasonable Effect Upon Fish, Wildlife, or Other Instream Beneficial Uses

CSPA's objection is based on impacts to fish. The salinity standards for which the compliance requirement will be temporarily lifted, are not established for the protection of fish or other instream beneficial uses, but rather are intended to protect wildlife that use the plants grown in a brackish marsh habitat as a food reserve. Therefore, extending the date for meeting the salinity standards will not affect a use of water by fish.

Further, the Suisun Marsh Salinity Control Gates (SMSCG) and their effects on Chinook salmon that CSPA mentions in its objection are not involved in the proposed temporary change. The proposed change will have no effect on the operation of the Gates. DWR has conducted field testing that shows that SMSCG operation has little or no effect on the far western compliance stations. If the DWR and USBR were to attempt compliance through more aggressive SMSCG operation, the impact on migratory fish would be increased.

With respect to potential impacts on instream beneficial uses other than fish, I find that because this change is only temporary, and the management measures being implemented during that period are expected to improve soil salinity conditions compared to previous conditions, the change will not have an unreasonable effect on aquatic vegetation or wildlife dependent on that vegetation.

5.4 The Proposed Change is in the Public Interest

The DWR and the USBR are on the brink of executing Amendment Three of the SMPA. The DWR and USBR intend that Amendment Three will establish protection for the beneficial uses in the Suisun Marsh that will be equivalent to, or better than, the protection that would be achieved by meeting the in-channel salinity standards in the 1995 Bay-Delta Plan at stations S-35 and S-97. The DWR and the USBR, however, need additional time to complete necessary documentation before seeking the SWRCB's concurrence in the implementation of Amendment Three. Requiring them to meet the salinity standards at the two stations at this time could preclude them from testing the management strategies they intend to use this year, and would require the dedication of a substantial additional amount of fresh water. Allowing them to conduct the management actions during the term of the temporary change instead of meeting the salinity standards in the channels will make the most reasonable use of the available water.

6.0 ENVIRONMENTAL COMPLIANCE

The proposed change is exempt from the California Environmental Quality Act (CEQA) (Pub. Resources Code § 21000 et seq.) in accordance with Title 14, California Code of Regulations section 15061(b)(3). CEQA applies to those projects which have a potential for causing a significant effect to the environment. If it can be foreseen with certainty that there is no possibility that an activity will have a significant effect on the environment, then the activity is not subject to CEQA. Channel water salinity standards for the western Suisun Marsh compliance stations S-35 and S-97 have never been in effect. A temporary extension of the effective compliance date creates an environmental condition which is indistinguishable from the pre-project or base condition. Therefore, approval of the proposed petition can cause no change to the environment and is exempt from CEQA.

CSPA argued in its objection that the proposed temporary change should not be approved until a particular environmental document being prepared by the DWR and USBR is completed. CSPA misunderstands the purpose of the subject environmental document. The environmental document that DWR and USBR are preparing will not address the proposed temporary change, but instead will address the long-term change in the implementation of protections for the Suisun Marsh under Amendment Three. This is a separate action.

7.0 CONCLUSIONS

1. The DWR and the USBR have an urgent need to make the proposed change.

2. The proposed change may be made without injury to any other lawful user of water.

3. The proposed change may be made without unreasonable effect upon fish, wildlife, and other instream beneficial uses of water.

4. The proposed change is in the public interest.

ORDER

NOW, THEREFORE, IT IS ORDERED that the DWR's and USBR's petition for temporary urgency change of permits and licenses issued under Application 5626 et al. (listed in Appendix B, Order WR 95-6) under Water Code section 1435 et seq. is approved, temporarily removing the requirement that the DWR and the USBR meet the channel water salinity objectives at compliance stations S-35 (Goodyear Slough at Morrow Island Clubhouse) and S-97 (Cordelia Slough at Ibis Club), subject to the following terms and conditions:

1. All terms and conditions of the permits and licenses issued under Application 5626 et al. shall remain in effect, except as temporarily modified by the terms and conditions of this Order and any further related Order that may be issued during the effective period of the temporary changes.

2. The temporary change in the requirement to meet the salinity objectives will be effective for a period of 180 days commencing on October 1, 1997, and may be renewed for additional periods not to exceed 180 days from the date of renewal.

3. Not later than March 15, 1998, DWR and USBR shall provide a summary of the results of implementing management measures during the temporary change to the Chief of the Division of Water Rights, and to any parties requesting a copy of the summary.

4. Pursuant to Water Code sections 100 and 275 and the common law public trust doctrine, all rights and privileges under this temporary change Order, are subject to the continuing authority of the SWRCB in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion of said water.

   The continuing authority of the SWRCB also may be exercised by imposing specific requirements over and above those contained in this Order to minimize waste of water and to meet reasonable water requirements without unreasonable draft on the source.

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5. The SWRCB reserves jurisdiction to supervise the transfer, exchange and use of water under this Order, and to coordinate or modify terms and conditions, for the protection of vested rights; fish, wildlife, instream beneficial uses; and the public interest as future conditions may warrant.

Dated: October 30, 1997

JAMES M. STUBCHAER, MEMBER
STATE WATER RESOURCES CONTROL BOARD

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

ORDER

Application 9363 Permit 12722 License _____

ORDER AMENDING PERMIT TO CONFORM WITH DECISION NO. 1629

WHEREAS:

1. The permittee is the U.S. Bureau of Reclamation.

2. The permit should be amended to conform with State Water Resources Control Board (SWRCB) Decision No. 1629 related to the Los Vaqueros Project in Contra Costa County.

NOW, THEREFORE, IT IS ORDERED THAT:

1. The condition of the permit related to the points of diversion shall be amended to include the following:

   A point of diversion and point of rediversion on Old River tributary to San Joaquin Delta Channels, within the NW¼ of SE¼ of projected Section 31, T1N, R4E, MDB&M, also described as California Coordinates, Zone 3, N 507,050 and E 1,689,550. (0000001) (0000002)

2. Condition is added to the permit as follows:

   The maximum rate of diversion and rediversion to offstream storage in Los Vaqueros Reservoir shall not exceed 200 cubic feet per second. (000005J)

3. Conditions are added to this permit as follows:

   a. The permittee shall maintain a daily record of water diversion utilizing the Old River point of diversion and submit such record to the Division of Water Rights on an annual basis. (0090700)

   b. No water shall be diverted from Old River under this permit until permittee has installed devices, satisfactory to the SWRCB, which are capable of measuring the flow: (1) diverted into Los Vaqueros Reservoir from Old River; and (2) released throught the outlet facilities of Los Vaqueros Reservoir. Said measuring devices shall be properly maintained. (0060062)

c. The total combined quantity of water diverted and/or rediverted under Permits 20749, 12721, 11967, 12722, 12723, 12725, 12726, 11315, 11316, 16597, 11968, 11969, 11971, 11973, 12364, 13776, 16600, and 15735 (issued pursuant to Applications 20245, 5626, 5628, 9363, 9364, 9366, 9367, 13370, 13371, 14858, 15374, 15375, 16767, 17374, 17376, 18115, 19304, and 22316) shall not exceed 180,675 acre-feet per annum from Old River and also shall not exceed in any one-year period commencing on March 1, the sum of (i) 195,000 acre-feet and (ii) 4,000 acre-feet to replace evaporation losses and (iii) the difference between the quantity of water in storage in Los Vaqueros Reservoir at the end of the period and the quantity of water in storage at the end of the period and the quantity of water in storage at the beginning of the period, from Old River and Rock Slough, combined. If the storage at the end of the period is less than the storage at the beginning of the period, the change in storage shall be subtracted from the 195,000 acre-feet.

Until further order of the SWRCB, the combined maximum annual diversion shall not exceed 242,000 acre-feet per annum from Old River and Rock Slough. Further order of the SWRCB shall be preceded by notice to all interested parties, by opportunity for hearing, and a showing that water can be diverted in excess of 242,000 acre-feet per annum, taking into account the needs of public trust uses, senior water right holders, and other beneficial uses. The petition shall be accompanied by any environmental documentation required under California law. This requirement for further order of the SWRCB shall not preclude the permittee from filing appropriate petitions for temporary changes or applications for temporary permits under laws existing at the time of the petition or application.

Provided, however, that if during the twelve months after the date when water is first diverted to storage in Los Vaqueros Reservoir there is adequate water available under the water rights listed above, the combined maximum diversion during that initial twelve months shall be 252,000 acre-feet from Old River and Rock Slough.

The total quantity of water distributed under the permits on the above water rights within the authorized place of use served by Contra Costa Water District for use by the customers of the Contra Costa Water District, in any year commencing March 1 shall not exceed 195,000 acre-feet. (0000114)

d. The combined rates of diversion and/or rediversion from Old River under Permits 20749, 12721, 11967, 12722, 12723, 12725, 12726, 11315, 11316, 16597, 11968, 11969, 11971, 11973, 12364, 13776, 16600, and 15735 (issued pursuant to Applications 20245, 5626, 5628, 9363, 9364, 9366, 9367, 13370, 13371, 14858, 15374, 15375, 16767, 17374, 17376, 18115, 19304, and 22316) shall not exceed 250 cubic feet per second. (0000114)

e. Permittee shall comply with all legally binding requirements of the California Department of Fish and Game, the United States Fish and Wildlife Service and the National Marine Fisheries Service imposed on the permittee under the federal Endangered Species Act (16 U.S.C.A. Sections 1531 to 1544) and the California Endangered Species Act (Fish and Game Code Sections 2050 to 2098) with respect to the Los Vaqueros Project. (0400500) (0600900)

f. Permittee shall in cooperation with the Contra Costa Water District implement the mitigation monitoring and reporting measures for Bay-Delta fishery resources and Bay-Delta water quality which are set forth in the Environmental Commitments and Mitigation Monitoring and Reporting Plan for the Los Vaqueros Project Stage 2 Environmental Impact Report/Environmental Impact Statement, dated October 27, 1993. Permittee in cooperation with the Contra Costa Water District shall provide a report to the Chief, Division of Water Rights by April 1 of each year detailing the results of the previous year's monitoring, plans for the current year's monitoring, and the status of implementation of each mitigation measure required by this decision. (0400500)

4. Permittee shall minimize increased levels of suspended sediments discharged to Old River during construction, maintenance and repair of the Old River intake facility and minimize loss of fish and riparian wildlife at the Old River intake facility construction site by: (1) installing floating silt curtains, silt fences, stormwater detention facilities, and other appropriate sediment control facilities; (2) mapping existing riparian/aquatic fish habitat prior to construction and taking steps to avoid losses to existing habitat during facility construction as much as possible; and (3) reestablishing suitable new habitat on newly constructed or existing levees to compensate for unavoidable losses. Further, the permittee shall perform all construction, maintenance and repair operations on the Old River intake facility only during the period from September 1 through December 30 of each year, unless U.S. Fish and Wildlife Service and Department of Fish and Game authorized these activities during other periods. Best management practices shall be used to minimize direct and indirect impacts to fish and wildlife. (0400500)

5. a. During the period from March 15 through May 15 of each year, the permittee shall use the Old River point of diversion as much as possible in order to minimize diversions at the Rock Slough point of diversion under Permits 12725, 12726, and 15735 on Applications 9366, 9367, and 22316 of the U.S. Bureau of Reclamation.

b. During the period from March 15 through May 31 of each year, the permittee shall not divert water from the Old River point of diversion to offstream storage in Los Vaqueros Reservoir when the reservoir storage level is more than 70,000 acre-feet (af) in a below normal, above normal or wet water year, or more than 44,000 af in a dry or critical water year. Water year types will be as defined in the February edition of the California Department of Water Resources Bulletin 120 of the Four Basin Index set forth in the permits and licenses of the Bureau of Reclamation.

c. During the period from April 1 through April 30 of each year, permittee shall not divert water from the Delta for use by Contra Costa Water District at times when storage in the reservoir is more than 70,000 af in a below normal, above normal or wet water year, or more than 44,000 af in a dry or critical water year, unless more than 12,500 acre-feet is necessary to meet reasonable demands in the Contra Costa Water District service area during this period.

d. If in any year the Department of Fish and Game, U.S. Fish and Wildlife Service or National Marine Fisheries Service require modifications in the time periods specified in items (b) or (c) above to protect endangered or threatened species, permittee shall by February 15, or immediately if after February 15, notify the Chief, Division of Water Rights of the time period modifications for that year. Unless within 15 days the Chief, Division of Water Rights, objects to the proposed modifications or proposes an alternative, the permittee shall implement the modifications.

e. The requirements of this permit term shall become effective when Los Vaqueros Reservoir is initially filled to a level of 90,000 af. (0560900) (0360900) (0600500)

6. Permittee shall construct, operate and maintain a fish screen and fish screen cleaning system at the Old River intake facility, satisfactory to the Department of Fish and Game, United States Fish and Wildlife Service and National Marine Fisheries Service. The fish screen facility shall be constructed and made fully operational prior to operation of the Old River intake facility and by not later than January 1, 1997. In addition, the screen facility shall be designed and operated to achieve an average water approach velocity no greater than 0.2 feet per second for a 3/32" vertical slotted screen opening, and be operated to effectively screen fish greater than 21 millimeters long. (0400500)

7. To avoid construction impacts to Swainson's hawks, surveys shall be conducted weekly beginning the first week of April through May 15 by a biologist acceptable to the Department of Fish and Game to determine if any nesting is occurring within ½ mile of the Old River diversion point, and to determine whether there is any suitable nesting habitat within ½ mile. If nesting is occurring within ½ mile, construction may not be initiated or continued until August 15 without additional consultation with the Department of Fish and Game. This term shall expire upon completion of construction. (0400500)

8. In accordance with Section 1601, 1603, and/or Section 6100 of the Fish and Game Code, no work shall be started on the diversion works and no water shall be diverted under this permit until permittee has entered into a stream or lake alteration agreement with the California Department of Fisha and Game and/or the Department has determined that measures to protect fishlife have been incorporated into the plans for construction of such diversion works. Construction, operation, and maintenance costs of any required facility are the responsibility of the permittee. (0000063)

Dated: JULY 18, 1994

Roger Johnson

for Edward C. Anton, Chief
Division of Water Rights

APPLICATION 9363, PERMIT 12722

PERMIT AMENDED

SEE WR ORDER 95-6

ISSUED JUNE 8, 1995

~~P9363~~

P 12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

ORDER

APPLICATION 5626 and 11 others PERMIT 12721 and 11 others LICENSE _____
(as listed on attachment A)

ORDER APPROVING CHANGE(S)
IN POINT OF DIVERSION AND REDIVERSION,
THE PLACE OF USE, AND AMENDING THE PERMIT

WHEREAS:

1. The permittee is the U.S. Bureau of Reclamation.

2. A petition for change has been filed with the State Water Resources Control Board (Board).

3. The petitioned change(s) would not constitute the initiation of a new right nor operate to the injury of any other lawful user of water.

4. The Board's continuing authority should be updated to conform to Title 23, CCR Section 780(a).

NOW, THEREFORE, IT IS ORDERED THAT:

1. Condition of the permit related to the points of diversion shall be amended to include the following:

   A point of diversion or rediversion at Clifton Court Forebay; being within the NW¼ of SE¼ of projected Section 20, T1S, R7E, MDB&M: California Coordinate System: Zone 3, N 786,035, E 1,695,057. (0000001)

   The amount of water diverted under this order shall be limited to the amount required for use at the National Cemetery of Northern California as described in Condition 2 below. The rates of diversion shall conform to the provisions of Decision 1485 and any subsequent Decisions or Orders affecting the diversion of water at Clifton Court Forebay.

2. The condition of the permit related to the place of use shall be amended to include the following:

   The National Cemetery of Northern California, being 322 acres within the S½ of Section 27 and the N½ of Section 34, T9S, R8E, MDB&M. (0000004)

3. A condition of the permit be added to read:

Pursuant to California Water Code Sections 100 and 275, and the common law public trust doctrine, all rights and privileges under this permit and under any license issued pursuant thereto, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.

The continuing authority of the Board may be exercised by imposing specific requirements over and above those contained in this permit with a view to eliminating waste of water and to meeting the reasonable water requirements of permittee without unreasonable draft on the source. Permittee may be required to implement a water conservation plan, features of which may include but not necessarily be limited to: (1) reusing or reclaiming the water allocated; (2) using water reclaimed by another entity instead of all or part of the water allocated; (3) restricting diversions so as to eliminate agricultural tailwater or to reduce return flow; (4) suppressing evaporation losses from water surfaces; (5) controlling phreatophytic growth; and (6) installing, maintaining, and operating efficient water measuring devices to assure compliance with the quantity limitations of this permit and to determine accurately water use as against reasonable water requirements for the authorized project. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such specific requirements are physically and financially feasible and are appropriate to the particular situation.

The continuing authority of the Board also may be exercised by imposing further limitations on the diversion and use of water by the permittee in order to protect public trust uses. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such action is consistent with California Constitution Article X, Section 2; is consistent with the public interest and is necessary to preserve or restore the uses protected by the public trust. (0000012)

Dated: FEBRUARY 23 1993

Roger Ramirez

for Edward C. Anton, Chief
Division of Water Rights

ATTACHMENT A

Permits of the United States Bureau of Reclamation:

Permit 12721 (Application 5626)
Permit 11967 (Application 5628)
[illegible]
Permit 12723 (Application 9364)
Permit 12727 (Application 9368)
Permit 11315 (Application 13370)
Permit 11316 (Application 13371)
Permit 11968 (Application 15374)
Permit 11969 (Application 15375)
Permit 11971 (Application 16767)
Permit 11973 (Application 17374)
Permit 12364 (Application 17376)

8.2 Agricultural Water Users

Issues which concern agricultural water users along the lower Mokelumne are water quality and the introduction of nuisance aquatic plants into irrigation canals. EBMUD admits that the water received by agricultural users from the proposed project would be of lesser quality than Mokelumne River water, but it asserts that the water would be suitable for irrigation purposes without potential adverse effects. This assertion assumes that the water from Indian Slough will be blended with water from Camanche Reservoir, that pumping will commence on August 1, 1988, and that the pool in Camanche Reservoir will be 40,000 af. It is further assumed that water will be diverted for irrigation only during the months of August and September 1988 (EBMUD 32:4-8).

The proposed diversion could introduce nuisance aquatic plants to Camanche Reservoir and the Mokelumne River. The reservoir and river do not presently contain these plants. The principal concern is the introduction of water hyacinth, which is subject to an ongoing state control program consisting principally of the use of the herbicide 2,4-D. There has been no success in eradicating water hyacinth in the Delta. Water hyacinth is a nuisance because it clogs irrigation pumps and canals, and affects recreational uses.

EBMUD proposes a multi-barrier approach to prevent the transfer of aquatic plants. The barriers would consist of:

1. coordination with the ongoing state program for water hyacinth control in the Delta,

2. a 10-yard clear zone coupled with a log boom and debris fence at the Indian Slough intake,

3. a fish screen with openings of 3/32 inch (approximately 2mm),

4. chlorination of the water in transit to Camanche Reservoir,

5. entrapment basins at the point of discharge,

6. monitoring of the discharge area, and

7. surveys to identify aquatic plants presently in Camanche reservoir and Indian Slough (EBMUD 32:7-6).

The proposed screens would not be of small enough mesh to retain water hyacinth seeds (EBMUD 32:7-6); plant fragments smaller than the mesh would also enter the diversion (TI,149:3-5). Not all water hyacinth seeds sink and therefore some would be diverted and float through the proposed settling ponds. Chlorination may not kill the seeds, and "hard seeds" would survive chlorination. In experiments conducted by San Joaquin County consultants, where aquatic weeds from Indian Slough were chlorinated with doses identical to that proposed by EBMUD, it was found that photosynthesis still occurred in some plants. Chlorination may stimulate sprouting of the seeds (TI,283:5-18).

Water hyacinth seeds may be dormant for up to 15 years (TII,287:24-25); it has not been determined how long the monitoring program will

continue. If the hyacinth were introduced into the lower Mokelumne River system, it could become established in backwater areas of the River or in any large lake such as Lodi Lake (TII,291:8-18). The water hyacinth could also become established in irrigation canals. The Board finds that the risk of introducing water hyacinth is substantial and that the introduction of water hyacinth would injure lawful users of water on the Mokelumne River.

8.3 Riparian Water Users

A number of riparian water users along the lower Mokelumne River use the water for domestic and irrigation purposes. These users would be subject to the same effects as the municipal and agricultural users.

8.4 Mokelumne River Fish Installation

Water is used at the Mokelumne River Fish Installation for spawning and rearing of cold water fish. DFG (operator of the installation) would be adversely impacted by the proposed project because it would be unable to obtain water suitable for the production of salmonids due to changes in water temperature and turbidity. Fish diseases may also be introduced. (See Sections 9.1, 9.3, and 9.4.) DFG is subject to effluent limitations from the Mokelumne River Fish Installation which are contained in NPDES Order 86-042 issued by the Regional Water Quality Control Board, Central Valley Region. DFG testified that the proposed project may result in violation of this Order.

9.0 UNREASONABLE EFFECTS UPON FISH, WILDLIFE, AND OTHER INSTREAM BENEFICIAL USES

9.1 Importation of Fish Pathogens

The proposed diversion could result in the introduction of fish pathogens to Camanche Reservoir, the Mokelumne River, and the Mokelumne River Fish Installation. These pathogens include *Vibrio* sp., *Mycobacterium* sp. (which causes fish tuberculosis), *Ceratomyxa shasta*, and PKX (tentatively identified as the causative agent for proliferative kidney disease (PKD)). These pathogens are in Delta waters that EBMUD proposes to divert but are not in Camanche Reservoir or the Mokelumne River.

EBMUD proposes to add chlorine at a concentration of approximately 4 to 8 mg/l to maintain a residual of 1 mg/l after 18 hours to reduce the risks of transferring bacterial and viral fish diseases to a minimum (EBMUD 32:1-9). However, EBMUD was not able to show that chlorination would completely eliminate these pathogens. Because there are no known effective therapeutics for the treatment and control of *Mycobacterium*, *Ceratomyxa*, PKX, and PKD; and control measures for the control of *Vibrio* are expensive, time consuming, and are often only partially successful (DFG 8A), the Board finds that in this case the risk of introducing these pathogens is unreasonable.

9.2 Importation of Fish from the Delta to Camanche Reservoir and the Mokelumne River

To avoid loss of juvenile and adult fish resulting from the proposed diversion, EBMUD proposes to install fish screens at the Indian Slough intake per DFG specifications, with a slot width of 3/32 inches. That

slot size would exclude juvenile chinook salmon greater than 1.2 inches, American shad greater than 1 inch, and white sturgeon greater than 0.9 inch (EBMUD 32:1-7). The proposed fish screen would be designed to exclude the majority of fish, but not all fish (TI,185:21-24). EBMUD failed to show that the proposed chlorine dosage would eliminate all undesirable fish eggs and larvae. Consequently, some Delta fish could be introduced to Camanche Reservoir and the Mokelumne River. The Board finds that in this case the risk of introducing undesirable fish to the Mokelumne River is unreasonable.

9.3 Homing of Anadromous Fish

Introduction of Delta water in the Mokelumne River may interfere with the homing of adult chinook salmon and steelhead, which key on the scent of water from their home stream. The proposed diversion may adversely affect the homing of adult Chinook salmon returning to the Mokelumne River to spawn and may also adversely affect the imprinting of juveniles because the scent of the mix of Delta water with Mokelumne River water would be different from the scent of Mokelumne River water. The Board finds that in this case the risk of interfering with the homing of these fish is unreasonable.

9.4 Water Temperatures for Spawning of Chinook Salmon

Chinook spawning normally begins in the Mokelumne River about October. Water temperatures above 58° F are harmful to eggs. If the proposed diversion is not implemented, EBMUD will release water from Pardee into Camanche beginning in October at the rate of about 4,000-5,000 af per month. The volume of water in Camanche would be held at

10,000 af (EBMUD 32:Table 2-1). Release of Pardee Reservoir water into Camanche Reservoir will cool Camanche Reservoir water. October temperatures would be 60° F with Pardee releases and 62-65° F with the proposed introduction of Delta water. November temperatures would be in the low 50s with Pardee water and 56-60° F with Delta water. The high temperatures resulting from the introduction of Delta water would be significantly adverse to salmon reproduction.

9.5 Aquatic Plants

As mentioned above, the proposed diversion could result in the introduction of aquatic plants to Camanche Reservoir and the Mokelumne River which presently do not contain these plants. In addition, nutrient levels in Delta waters could stimulate growth of Cladophora which would smother river gravels (and therefore adversely affect salmon spawning) and clog fish screens.

10.0 THE PROPOSED CHANGE IS NOT IN THE PUBLIC INTEREST

The proposed change may cause adverse impacts on water quality, public health, fish, and agricultural operations. It may cause injury to other lawful users of water. Other alternatives appear to be available to EBMUD. Therefore, the Board finds that the proposed change is not in the public interest.

11.0 COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

CEQA does not apply to projects which a public agency rejects or disapproves. Public Resources Code Section 21080(b)(5), 14 California Code of Regulations 15270(a). Because the petition for a temporary

urgency change is denied, this order is not subject to CEQA, and no environmental documentation is required.

12.0 CONCLUSIONS

1. The Board concludes that EBMUD has an urgent need to acquire an additional water supply in order to meet its requirements in the event of a third consecutive dry year and to put in place a system capable of delivering that additional supply. However, given the adverse effects of this proposed change, the adequacy of carryover storage as of September 30, 1988, and the availability of other alternatives to EBMUD, the Board concludes that EBMUD does not have an urgent need to divert the additional supply as proposed in the petition during the time period requested in the petition.

2. The Board concludes that the proposed change may not be made without injury to any other lawful user of water.

3. The Board concludes that the proposed change may not be made without unreasonable effect upon fish, wildlife, or other instream beneficial uses.

4. The Board concludes that the proposed change is not in the public interest.

5. The Board concludes that the petition should be denied.

ORDER

IT IS HEREBY ORDERED that the petition for a temporary urgency change is denied.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on August 18, 1988.

AYE: W. Don Maughan
Darlene E. Ruiz
Edwin H. Finster
Danny Walsh

NO: None

ABSENT: Eliseo M. Samaniego

ABSTAIN: None

Maureen Marché
Administrative Assistant to the Board

P
12722

SEE ORDER: WR 92-02, DATED MARCH 19, 1992

P. 12722

SEE WR 91-01 dated January 10, 1991

ALSO SEE WR 91-03 dated April 1, 1991

P 12722

Permi

12721
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STATE OF CALIFORNIA

STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Urgency Change Order for Permitted Application 5626 and 12 others, as listed in Table 1 U. S. BUREAU OF RECLAMATION, Permittee	ORDER: WR 89-21 SOURCE: Old River COUNTY: CONTRA COSTA

ORDER VALIDATING THE ISSUANCE OF A
CONDITIONAL TEMPORARY URGENCY CHANGE ORDER
ADDING A POINT OF DIVERSION AND REDIVERSION
TO DELIVER WATER TO KERN NATIONAL WILDLIFE REFUGE

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a Temporary Urgency Change in point of diversion and rediversion, pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the State Water Resources Control Board (Board) having consulted with the U. S. Fish and Wildlife Service (Service), the Department of Fish and Game (DFG) and the Department of Water Resources (DWR); on August 23, 1989, Board Chairman Maughan having concluded from available information that a conditional temporary urgency change order was appropriate, issued said order subject to review and validation by the Board within 30 days, as provided by Water Code Section 1435(d); the Board finds as follows:

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STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Change Order for Permitted Application 5626 and 12 others, as listed in Table 1	ORDER: WR 89- 10
	SOURCE: Old River
U. S. BUREAU OF RECLAMATION, Permittee	COUNTY: Contra Costa

ORDER VALIDATING THE ISSUANCE OF A
CONDITIONAL TEMPORARY URGENCY CHANGE ORDER
ADDING A POINT OF DIVERSION AND REDIVERSION

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a Temporary Urgency Change, in point of diversion and rediversion, pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the State Water Resources Control Board (Board) having consulted with the U. S. Fish and Wildlife Service, the Department of Fish and Game and the Department of Water Resources (DWR); Board Vice Chairwoman Darlene E. Ruiz, having concluded from available information that a Temporary Urgency Change Order should be issued and having issued said order on May 9, 1989, subject to review and validation by the Board as provided by Water Code Section 1435(d); the Board finds as follows:

Substance of the Proposed Temporary Urgency

1. On April 28, 1989, the Bureau filed a petition for a temporary urgency change to add the State Water Project's (SWP) Clifton Court Forebay, the intake to the DWR's Harvey O. Banks Pumping Plant (SWP Banks) as an additional temporary point of diversion, for the May 10, 1989 through

August 20, 1989 period. The petition requests authorization to pump up to 30,000 acre-feet (af) of Bureau entitlement water through SWP Banks under the water rights listed in Table 1. Use of SWP Banks was requested to offset reduced diversions at the Bureau's Central Valley Project Tracy Pumping Plant (CVP Tracy). The reduced diversions at CVP Tracy were required in order to allow fish studies in the Sacramento-San Joaquin Delta (Delta) from May 1 through May 9, 1989.

TABLE 1

Water Right Applications and Permits Covered by the Petition for Temporary Urgency Change

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
9368	12727
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860
16767	11971
17374	11973
17376	12364

Action By Board Vice Chairwoman Ruiz:

2. In accordance with the delegation of authority in Water Code Section 1435(d) and the Board's adoption of Resolution 84-2, Board Vice Chairwoman Darlene E. Ruiz made findings and issued a Conditional Temporary Urgency

Change Order on May 9, 1989, allowing a temporary change in point of diversion and rediversion, at the Clifton Court Forebay, for up to 30,000 af of water under permits listed in Table 1, subject to several specified conditions. We concur in and incorporate herein by reference the findings set forth in the Order issued on May 9, 1989.

Notice Of The Petition:

3. On May 12, 1989, Notice of the petition for the Temporary Urgency Change was mailed to interested parties.

4. In accordance with Water Code Section 1438(b)(1), the Board advised the Bureau to have the Notice published in the Contra Costa Times newspaper since the point of diversion and rediversion is located within Contra Costa County. The Notice was published on May 19, 1989.

5. The final date for submitting objections was May 26, 1989.

Responses:

6. The Department of Fish and Game submitted a memorandum dated May 31, 1989 expressing support for the temporary urgency change.

7. No written objections to the proposed temporary urgency change have been submitted.

Additional Findings:

8. The mean monthly diversion limit at CVP Tracy for May and June, under Board Decision 1485 (D1485), is 3,000 cfs.

9. In order to accommodate the previously described fish studies, the CVP Tracy pumping rate was reduced from about 3,000 cfs to about 1,650 cfs during the May 2 though May 9, 1989 period. This resulted in reduced diversions during this period amounting to about 18,000 af.

10. Bureau pumping at CVP Tracy may exceed the 3,000 cfs instantaneous rate during the remainder of May 1989. Pumping at that rate would offset a portion of the curtailments without violating D1485 criteria.

11. The Bureau has a temporary urgent need to add the proposed point of diversion and rediversion at the entrance to the Clifton Court Forebay and to use the SWP Banks Pumping Plant to make up for the pumping curtailment not offset at CVP Tracy.

12. On May 9, 1989, pursuant to the conditional order issued by Vice Chairwoman Ruiz, the Chief of the Division of Water Rights filed a Notice of Exemption under Section 15306 of the State EIR Guidelines, Title 14 of the California Code of Regulations.

ORDER

IT IS HEREBY ORDERED THAT:

The issuance of the May 9, 1989, Conditional Temporary Urgency Change Order, by Board Vice Chairwoman Darlene E. Ruiz, allowing an additional point of diversion and rediversion under the permits listed in Table 1, is hereby validated, subject to the terms and conditions specified in the Order and subject to the additional condition that the quantity of water diverted under the change order not exceed the actual CVP Tracy pumping quantity forgone for the fish studies during May 1989.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on June 7, 1989.

AYE: W. Don Maughan
Edwin H. Finster
Danny Walsh

NO: None

ABSENT: Darlene E. Ruiz
Eliseo M. Samaniego

ABSTAIN: None

Maureen Marche'
Administrative Assistant to the Board

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Urgency Change Order On Permits 12721 (Application 5626) 11967 (A-5628), 12722 (A-9363), 12723 (A-9364) 12727 (A-9368), 11315 (A-13370) 11316 (A-13371), 11968 (A-15374), 11969 (A-15375), 12860 (A-15764), 11971 (A-16767), 11973 (A-17374) and 12364 (A-17376) U.S. BUREAU OF RECLAMATION, Permittee	ORDER: WR 89-1 SOURCE: Old River COUNTY: Contra Costa

ORDER VALIDATING ISSUANCE OF
TEMPORARY URGENCY CHANGE
IN POINT OF DIVERSION
AND REDIVERSION

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a temporary urgency change in point of diversion and rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the Board having consulted with the Department of Fish and Game and the Department of Water Resources (DWR); Chairman W. Don Maughan having concluded from available information that a temporary urgency change order should be issued and having issued said order on December 23, 1988 subject to review and validation by the Board as provided by Water Code Section 1435 (d); The Board finds as follows:

Substance of the Proposed Change

1. On December 21, 1988, the Bureau filed a petition for a temporary urgency change to add the State Water Project's Harvey O. Banks Pumping Plant (SWP Banks), as an additional temporary point of diversion and rediversion, for the January 1, 1989 through March 31, 1989 period. The petition requests authorization to pump up to 10,000 acre-feet of Bureau entitlement water through SWP Banks under Permit 12721 and the 12 other permits listed above. Use of SWP Banks was requested to offset reduced diversions at the Central Valley Project Tracy Pumping Plant (CVP Tracy) which were required to meet water quality standards in the Sacramento-San Joaquin Delta from December 20 through December 23, 1988.

Notice and Responses

2. On January 3, 1989, notice of the Petition for Temporary Urgency Change was provided by mail to interested parties by publication in the Contra Costa Times. The period for submitting objections ended January 17, 1989. No objections were received.

Action by Board Chairman Maughan

3. In accordance with the delegation of authority in Water Code Section 1435(d), and the Board's adoption of Resolution 84-2, Board Chairman Maughan made findings and issued a Conditional Temporary Urgency Change Order on December 23, 1988 allowing a temporary change in point of diversion and point of rediversion, of up to 10,000 acre-feet of water under Permits 12721 and the 12 other permits listed above subject to several specified conditions. We concur in and incorporate herein by reference the findings set forth in the Order issued on December 23, 1989.

ORDER

IT IS HEREBY ORDERED THAT:

The issuance of the December 23, 1988 order by Board Chairman Maughan allowing a Conditional Temporary Urgency Change in the point of diversion and point of

rediversion under Permit 12721 and the 12 other permits listed above is validated subject to the terms and conditions specified in the Order.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on January 19, 1989.

AYE: W. Don Maughan, Darlene E. Ruiz, Eliseo M. Samaniego, Danny Walsh.

NO: None

ABSENT: Edwin H. Finster

ABSTAIN: None

Maureen Marche'
Administrative Assistance to the Board

P 12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Urgency Change Order On Permits (Applications) 11315 (13370), 11316 (13371), 11967 (5628), 11968 (15374), 11969 (15375), 11971 (16767), 11973 (17374), 12364 (17376) 12721 (5626), 12722 (9363), 12723 (9364) 12727 (9368), and 12860 (15764) U.S. BUREAU OF RECLAMATION, Permittee	)	ORDER: WR 88- 23 SOURCES: American River Trinity River Clear Creek Sacramento River The Delta COUNTIES: Trinity, Shasta Sacramento, Contra Costa

ORDER AMENDING AND VALIDATING ISSUANCE OF CONDITIONAL
TEMPORARY URGENCY CHANGE
IN POINT OF DIVERSION AND POINT OF REDIVERSION

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a Conditional Temporary Urgency Change in point of diversion and rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the State Water Resources Control Board (Board) having consulted with the U. S. Fish and Wildlife Service, the Department of Fish and Game (DFG) and the Department of Water Resources (DWR); Board Chairman W. Don Maughan having concluded from available information that the Bureau qualifies for a Temporary Urgency Change and having issued a Conditional Temporary Urgency Change Order on October 17, 1988, subject to review and validation by the Board as provided by Water Code Section 1435 (d); The Board finds as follows:

Substance of the Proposed Change

1. On September 30, 1988 the Bureau filed a petition with the Board to add the State Water Project's Harvey O. Banks Pumping Plant (SWP Banks), operated by DWR as an additional temporary point of diversion and rediversion, for a 180 day period. The petition requests authorization for pumping of Bureau entitlement water, under 13 Central Valley Project (CVP) permits, through SWP Banks to accommodate the following drought related urgency requests:

   (A) To increase the supply of CVP water to the Kern National Wildlife Refuge this fall from 7,500 acre-feet (approved September 7, 1988 by the Board Order WR 88-18) to 8,200 acre-feet.

   (B) To supply 800 acre-feet of CVP water to Semitronic Water Storage District this fall for waterfowl areas located within the District.

   (C) To replace curtailments at the Tracy Pumping plant CVP (Tracy) caused by reduced releases from Shasta Reservoir requested by the DFG. The reduction of release at Shasta Reservoir is for the purpose of enhancing temperature conditions for salmon eggs and juvenile salmon in the upper Sacramento River below Keswick Dam. The reduction in releases from Shasta Reservoir and possible curtailments at CVP Tracy during October, November and December 1988 are estimated to be up to an additional 125,000 acre-feet more than the 30,000 acre-feet approved in Board Order WR 88-18.

Notice and Responses

2. On October 7, 1988 a Notice of the petition for Temporary Urgency Change was provided by publication and mail to interested parties. The period for submitting objections ended October 21, 1988.

3. Objections to granting the Bureau Temporary Urgency Change petition were received from the Environmental Defense Fund (EDF) and from Stockton East Water District (SEWD). Board staff met with EDF, SEWD, DWR, DFG and the Bureau on October 26, 1988 to discuss the objectors' concerns.

4. The EDF objection raises three areas of concern, absent certain assurances. Each concern is paraphrased below, followed by findings on each.

   (A) Trinity River: EDF is concerned that approval of the petition will result in increased diversions from the Trinity Basin and reduced flows in the Trinity River. EDF asserts that no further reductions should be permitted.

   The petition states that the Bureau is already planning to operate the Trinity River diversion and conveyance facilities at full capacity this fall. The plan under the petition would be to continue the current Trinity River diversion rates but reduce the Shasta Reservoir releases in the fall and then make up the reduced Shasta Reservoir releases with pumping at SWP Banks before April 1, 1989.

Minimum flows in the Trinity River are controlled by various permit conditions and the January 14, 1981 Trinity River Fishery Mitigation Agreement. The flow regime change requested by DFG which prompted the Bureau petition would not reduce those minimum flow requirements; nor does the October 17, 1988 Order authorize a reduction. Consequently the Trinity River will not be adversely affected by approval of the petition.

(B) Increased Diversions: EDF is concerned that the continuing actions approved by Board Order WR 88-18 together with approval of the September 30, 1988 Bureau petitioned actions may affect the availability of CVP and SWP pumping capacity. EDF asks that the Board require an accounting from the Bureau which will show that the total quantity of export pumping at the Delta plants does not increase (except for associated evaporative losses).

Conditions 4 and 5 in the October 17, 1988 Conditional Order requires the Bureau to develop and file a revised accounting procedure (with updated operation study) acceptable to the Chief of the Division of Water Rights. The consolidated accounting procedure will itemize and totalize the daily pumping at the CVP Tracy and SWP Banks. The accounting procedure will be used to check the times and amounts of pumping under the various categories of the orders and will be used specifically to measure compliance with Condition 5(c) of the October 17, 1988 Order.

(C) Timing of Diversions: EDF also expressed concern about increased releases from Lake Oroville this fall being pumped at CVP Tracy with DWR making up its deferred SWP Banks pumping prior to September 1989. EDF alleges that, to facilitate May and June 1989 pumping at SWP Banks, DFG would agree to relieve DWR of its 2,000 cubic feet per second (cfs) pumping limit during May and June 1989 under the January 5, 1987 DWR/DFG letter agreement. EDF's concern is that relaxation of the agreement would allow pumping during May and June at 3,000 cfs, which is the maximum diversion allowed under Board Decision 1485. They allege the relaxation would in essence shift Delta pumping from the fall to May and June when they believe adverse direct pumping effects are more severe and when the need for Delta outflow is more critical. EDF claims this shift in timing of diversions would result in an environmental trade-off between the immediate benefits of reducing warm-water Shasta Reservoir releases and the future costs of increasing Delta pumping in May and June of 1989.

The shift of releases from Shasta Reservoir to Lake Oroville alleged by EDF and any change in diversion rates in May and June is not addressed in the petition; nor is it affected by the October 17, 1988 Order, which terminates March 31, 1989. Our review indicates that shifts in pumping authorized herein from October, November and December to January, February and March will result in no significant effects and will have no effect on diversions during May and June because all diversions under this temporary change will have been completed by

March 31, 1989. To further eliminate concern about the timing of diversions under this Order, Condition 3 of the October 17, 1989 Order will be amended to strike the reference to the possibility of an extension past April 1, 1989.

5. The SEWD objection asks that any permit (change order) granted for curtailment of releases of up to 125,000 acre-feet from Shasta and subsequent increased pumping from the Delta be conditioned to provide that no water from New Melones be used to make up the 125,000 acre-feet.

Condition 4 in Permits 16597 and 16600 restricts the place of use under the Bureau's New Melones storage permits to the Counties of Stanislaus, Calaveras, Tuolumne and San Joaquin. The October 17, 1988 Order does not authorize a change of place of use under Permits 16597 and 16600. The consolidated accounting procedure discussed in finding 4(B) above will also assure that no water is released from New Melones to make up the 125,000 acre-foot curtailment.

Action by Board Chairman Maughan

6. In accordance with the delegation of authority in Water Code Section 1435 (d), and the Board's adoption of Resolution 84-2, Board Chairman Maughan made findings and issued a Conditional Temporary Urgency Change Order on October 17, 1988 allowing a temporary change in point of diversion and point of rediversion of up to 126,500 acre-feet of water under the 13 permits listed above, subject to several specified conditions. We concur

in and incorporate herein by reference the findings set forth in the Order issued on October 17, 1988.

ORDER

IT IS HEREBY ORDERED THAT:

1. Issuance of the October 17, 1988 order by Board Chairman Maughan allowing a Conditional Temporary Urgency Change in the point of diversion and point of rediversion under Permits 11315, 11316, 11967, 11968, 11969, 11971, 11973, 12364, 12721, 12722, 12723, 12727 and 12860 is validated subject to the terms and conditions specified in the Order except as amended below.

2. Condition 3 of the October 17, 1988 order is amended to read:

3. Diversion or rediversion of water at SWP Banks under this Order is authorized beginning October 17, 1988 and continuing through March 31, 1989. This authorization shall be of no further force or effect on April 1, 1989.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on November 2, 1988.

AYE: W. Don Maughan
Darlene E. Ruiz
Eliseo M. Samaniego
Danny Walsh

NO: None

ABSENT: Edwin H. Finster

ABSTAIN: None

Maureen Marche
Administrative Assistant to the Board

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Urgency Change Order on Permits 12721, 11967, 12722, 12723, 12727, 11315, 11316, 11968 11969, 12860, 11971, 11973 and 12364 issued pursuant to Applications 5626, 5628, 9363, 9364, 9368, 13370, 13371, 15374 15375, 15764, 16767, 17374 and 17376	ORDER:	WR 88-18
	SOURCE:	Old River
	COUNTY:	Contra Costa

ORDER VALIDATING ISSUANCE OF
CONDITIONAL TEMPORARY URGENCY CHANGE
IN POINT OF DIVERSION AND REDIVERSION

BY THE BOARD:

The U.S. Bureau of Reclamation (Bureau) having filed a petition for a Temporary Urgency Change in point of diversion and rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the State Water Resources Control Board (Board) having consulted with the U. S. Fish and Wildlife Service (Service), the Department of Fish and Game (DFG) and the Department of Water Resources (DWR); Board Member Edwin H. Finster having concluded from available information that the Bureau qualifies for a Temporary Urgency Change and having issued a Conditional Temporary Urgency Change Order on August 18, 1988, subject to review and validation by the Board as provided by Water Code Section 1435(d); the Board finds as follows:

Substance of the Proposed Change

1. On June 30, 1988 the Bureau filed a petition with the Board to add the State Water Project's (SWP) Clifton Court Forebay, at the intake of the Harvey O. Banks Pumping Plant (Banks Plant), operated by the DWR, as a temporary point of diversion and rediversion under the following Bureau permits.

TABLE 1

Water Right Applications and Permits Covered by the Petition for Temporary Urgency Change

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
9368	12727
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860
16767	11971
17374	11973
17376	12364

The petition requests that, in addition to the existing Central Valley Project's (CVP) point of diversion and rediversion specified in the permits, the Bureau be allowed to divert or redivert water temporarily under the above permits at the Clifton Court Forebay, the intake of the Banks Plant, at the following location:

California Coordinates, Zone 3, N 486,035;
E 1,695,057; within the NW 1/4 of SE 1/4 of
projected Section 20, T1S, R4E, MDB&M.

2. The petition requests that diversion and rediversion at the Banks Plant be authorized for up to 85,500 acre-feet of the Bureau's water that the Bureau is entitled to divert under the permits listed above during the July 1, 1988 through February 28, 1989 period, to accommodate the following drought related requests:

   A) To supply 7,500 acre-feet of water to the Kern National Wildlife Refuge (KNWR) from September 1, 1988 through December 31, 1988.

   B) To replace pumping capacity lost to the Bureau caused by reductions of pumping at the Tracy Pumping Plant. This operation is for the purpose of studying the influences of the Tracy Pumping Plant, during extreme tidal events, on minimum water levels in the southern Delta, for water users of the South Delta Water Agency (SDWA). The pumping capacity lost is estimated to be up to 48,000 acre-feet due to tidal events during July and August of 1988.

   C) To replace pumping capacity lost to the Bureau caused by reductions in releases from Shasta Reservoir. This operation is for the purpose of enhancing temperature conditions for Chinook (King)

salmon eggs and juvenile salmon in the upper Sacramento River. The pumping capacity lost is estimated to be up to 30,000 acre-feet during October and November 1988.

Temporary Urgency Need

3. The Central Valley of California is experiencing consecutive critically dry water years.

4. Even if the fall and winter runoff this year is normal or above normal the Bureau will not have sufficient pumping capacity available at the Tracy Pumping Plant to pump water related to the requested additional service and pumping deferrals.

Notices and Responses

5. On July 15, 1988 a Notice of the petition for a Temporary Urgency Change and of a proposed hearing was mailed to interested parties. The Board received letters of support, policy statements or objections from:

A) Semitropic Water Storage District,

B) Wilson, Hoslett & Whitridge (for the South Delta Water Agency),

C) California Waterfowl Association,

D) Murray, Burns and Kienlen (for the East Contra Costa Irrigation District),

E) Trinity County, and

F) Legal Department of the Hoopa Valley Business Council.

Three of the letters (A, B, and C) were supportive of the proposed change, one letter (D) requested the observance of a condition in an existing agreement with DWR, and two letters (E and F) contained objections. The

objectors indicated that they would not attend the hearing scheduled for August 10 and 11, 1988. The hearing was therefore cancelled. The observance of the DWR Agreement will be made a condition of this temporary change order. The objections are addressed in the findings below.

The California Waterfowl Association letter of support mentions that the KNWR requires 8,200 af rather than 7,500 af this year. The petition was noticed for the requested 7,500 af. If further water is needed, an additional petition is required.

6. On August 26, 1988 a Notice of the petition was published in the Contra Costa Times. The period for submitting objections ended September 6, 1988.

FINDINGS RELATED TO DELIVERY OF WATER TO KERN NATIONAL WILDLIFE REFUGE (KNWR) ACTION:

7. The Bureau is authorized under its existing permits to service the KNWR with water from the Delta. Under existing limits on the Tracy Plant the Bureau cannot service the KNWR request for 7,500 af this season.

8. Both objectors are concerned that no additional reduction in flows in the Trinity River result from this temporary change. This conditional temporary urgency change allows the Bureau to use the Banks Plant to pump the 7,500 af for KNWR. When uncontrolled flows are available for diversion, no additional releases from Trinity would be necessary. While a portion of the 7,500 af could be withdrawn from the Trinity River such withdrawal would be insignificant this year and would not cause a violation of any permit terms or conditions.

9. The proposed action is a minor alteration in the operations of the water projects, results in an improvement of habitat for wildlife and assures maintenance of a natural resource. Successive actions of this type do not have significant cumulative impacts.

FINDINGS RELATED TO PUMPING MODIFICATIONS TO BENEFIT THE SOUTH DELTA WATER AGENCY ACTION:

10. Water users along the Old River, within the southern Delta, have had pumping problems when low water levels occur during extremely low tide cycles.

11. The water level problem may be compounded by pumping at the Tracy Pumping Plant.

12. Low tides are anticipated to occur about four days per tidal event, with four events occurring during July and August of 1988.

13. The SDWA, the DWR and the Bureau have an October 10, 1986 Agreement on a Framework for Settling Litigation regarding this problem, i.e., diversions in the south Delta during low water elevation conditions.

14. The Bureau's ability to reduce pumping at the Tracy Pumping Plant is constrained by the Bureau's contractual obligations to deliver CVP water to its users, and by capacity limits in the first reach of the Delta Mendota Canal. The Bureau has agreed to curtail pumping at the Tracy pumping plant by up to 1,600 cfs during the tidal events if the DWR is authorized to wheel replenishment water through the Banks Plant and the California Aqueduct.

15. This critically low flow year provides an opportunity to measure the influence of the Tracy Pumping Plant operations on water levels in the Old River during low tide events.

16. The East Contra Costa Irrigation District (ECCID), by Letter of Comment, dated July 28, 1988, had no objection to the temporary change "provided that the State Water Project facilities are operated in accordance with the following condition contained in paragraph 4 from the Contract Between the State of California, DWR, and the ECCID for the Assurance of a Dependable Water Supply of Suitable Quality.

> "4. Water Surface Elevation: The State shall not operate the SWP so as to cause the water surface elevation at the District's Pumping Plant No. 1 to fall below - .230 feet, District datum (0.0 on District datum is equal to +0.35 feet USGS datum) during the period April 1 through October 31 of each year."

17. This change will not have an effect on storage in Trinity Reservoir distinguishable from the operations of the CVP without this change, and consequently will not adversely affect the interests of the objectors.

18. The proposed action is an experimental management activity that will allow collection of valuable information regarding the effects of curtailing diversions during low tide cycles. Successive projects of this type do not have a significant cumulative impact.

FINDINGS RELATED TO FLOW AND PUMPING CHANGES REQUESTED BY THE DEPARTMENT OF FISH AND GAME:

19. Because of low runoff conditions this year, Shasta Reservoir will be at a low level and consequently releases from the reservoir during this fall will be warmer than optimum for the survival of salmon eggs and juvenile salmon. Water temperatures can be lowered by: 1) increasing the proportion of Keswick Dam releases originating from the Trinity River, and/or 2) by making releases from the lower level outlets at Shasta Dam, which results in loss of hydroelectric power generation.

20. This year's critically dry water conditions and very hot weather this summer have resulted in high water temperatures in the upper Sacramento River below Keswick Dam. This is threatening the survival of the fall run Chinook (King) salmon eggs and fry (juvenile salmon). The Bureau has already begun releasing water from the lower levels at Shasta Dam to reduce temperatures and as a consequence has lost some hydroelectric power generation.

21. The requested modifications in flows below Keswick Dam will be achieved by reducing releases from Shasta Reservoir rather than increasing releases from Trinity Reservoir. The result will be an increase in the proportion of cooler Trinity Reservoir water below Keswick without an increase in the volumne of Trinity water released. This will affect the amount of water being transferred this fall by the Bureau from storage (north of the Delta) to the San Luis Reservoir (south of the Delta). The modifications will not affect the net amount of carryover storage in Trinity Reservoir or the flows in the Trinity River that would be present without the temporary change.

22. The proposed changes will allow the Bureau to reduce considerably mortality in the fall salmon run without foregoing export of the water. The Bureau will be diverting water at Banks Plant for export at a time when it is anticipated that potential impacts of pumping will be minimal.

23. The proposed action is a minor alteration in water resources which results in improved habitat for fish and greater fish production, and is also an action to assure maintenance of a natural resource. Successive actions of this type do not have a significant cumulative impact.

Additional Findings

24. The Bureau has a temporary urgent need to add the proposed point of diversion and rediversion at the entrance to the Clifton Court Forebay and to use the DWR's Banks Plant, to make up for: 1) deliveries to the KNWR, 2) tidal considerations for the SDWA, and 3) reconfigured operations to reduce upper Sacramento River temperatures.

25. The temporary change described above:

A) is in the public interest, because the actions are planned to assist and enhance fish and wildlife and gain information regarding natural tidal events,

B) does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water; since there is no other user between the permitted point and changed point; additional pumping (above Tracy's capacity) will occur when there are higher flows in the Delta to limit salinity intrusion, and

C) does not unreasonably affect fish, wildlife or other instream beneficial uses, and the intent of the measures is to enhance fish and wildlife habitats.

26. The temporary change will not have an effect distinguishable from normal operations of the CVP on the level of water stored in Trinity Reservoir or on flow in the Trinity River. Consequently, it will not adversely affect the interests of the objectors.

27. The Chief of the Division of Water Rights is authorized to file a Notice of Exemption pursuant to the State EIR Guidelines, Title 14, California Code of Regulations, Sections 15304, 15306 and 15307.

Actions by Board Member Finster

28. In accordance with the delegation of authority in Resolution 84-2 as authorized by Water Code Section 1435(d), Board Member Edwin H. Finster issued a Conditional Temporary Urgency Change Order on August 18, 1988, allowing a temporary change to the Bureau's permits, in the point of diversion and rediversion at the Clifton Court Forebay, subject to several specified conditions.

ORDER

IT IS HEREBY ORDERED THAT:

1. The issuance of the August 18, 1988 order by Board Member Finster allowing a Conditional Temporary Urgency Change in point of diversion and rediversion under Permit 12721 and 12 others is validated subject to the terms and conditions specified in the order except as corrected below.

2. IT IS FURTHERED ORDERED that this change is subject to the observance by the SWP at all times of Paragraph 4 of the October 10, 1986 Agreement between the DWR and the ECCID.

3. Information shall be gathered during the actions related to the tidal events and shall be submitted along with the information required in the Conditional Temporary Change Order.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on September 7, 1988.

AYE:	W. Don Maughan	Eliseo M. Samaniego	Danny Walsh
NO:	None		
ABSENT:	Darlene E. Ruiz	Edwin H. Finster	
ABSTAIN:	None		

Maureen Marche
Administrative Assistant to the Board

8 12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Application 5626, et al.,	
U. S. BUREAU OF RECLAMATION,	ORDER: WR 88- 15
Petitioner,	SOURCE: Indian Slough
EAST BAY MUNICIPAL UTILITY DISTRICT,	COUNTIES: Alameda, Amador, Calaveras, Contra Costa, and San Joaquin
Real Party in Interest,	
CALIFORNIA DEPARTMENT OF FISH AND GAME, et al.,	
Objectors.	

ORDER DENYING PETITION FOR
TEMPORARY URGENCY CHANGE

1.0 INTRODUCTION

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a temporary urgency change to add an additional point of diversion and rediversion to the water right permits of the Central Valley Project; notice of the petition having been published in a newspaper of general circulation and mailed to persons who could be adversely affected by the proposed change; objections to the petition having been filed; a hearing having been held on July 13, 14, 27, and 28, 1988 by the State Water Resources Control Board (Board); the petitioner, real party in

interest, and objectors having appeared and presented testimony and exhibits and the evidence having been duly considered; the Board finds and concludes the following:

2.0 SUBSTANCE OF PETITION

The petition requests that a temporary point of diversion and rediversion be added to the points of diversion and rediversion currently specified in the following applications (permits): 5626 (12721), 5628 (11967), 9363 (12722), 9364 (12723), 13370 (11315), 13371 (11316), 15374 (11968), 15375 (11969), 16767 (11971), 17374 (11973), 17376 (12364). The additional point of diversion and rediversion would be located at the intake of the East Bay Municipal Utility District's (EBMUD) Bixler Emergency Pumping Plant (Bixler) which is located in Indian Slough within the Sacramento-San Joaquin Delta (California Coordinates: North 526,100, East 1,679,200; within NW1/4 of NE1/4 of Section 14, T1N, R3E, MDB&M). The change would be effective between July 15, 1988 and January 11, 1989. During the hearing on this matter, the Bureau requested that its petition be modified to change the 180-day period to begin September 15, 1988 (T;12:15-20). As a result of our denial of this petition, we do not need to decide this issue. The quantity of water diverted or rediverted pursuant to this petition would not exceed 37,500 acre-feet (af) (6,250 af per month). The maximum rate of diversion would be 140 cubic feet per second (cfs).

3.0 PROJECT DESCRIPTION

EBMUD proposes to pump Delta water from Indian Slough via Bixler and EBMUD's Mokelumne Aqueduct No. 2 east to Camanche Reservoir where it would be commingled with Mokelumne River water remaining in Camanche Reservoir and released to meet EBMUD's fishery and senior water right obligations on the lower Mokelumne River below Camanche Dam. In exchange for releasing the Delta water from Camanche Reservoir to meet its downstream obligations, EBMUD would deliver the Mokelumne River water from Pardee Reservoir (located upstream of Camanche Reservoir) to EBMUD customers in its service area.

The petition specified that the alternative of pumping Delta water west directly to EBMUD's service area be considered in addition to the alternative of pumping east to Camanche Reservoir. However, at the hearing on this matter, EBMUD requested that the westbound alternative not be considered at this time (TI,154:2-25). The Bureau may petition the Board in the future for consideration of this alternative.

4.0 OBJECTIONS TO PETITION

In response to the Notice of Petition and Public Hearing, objections were filed by the following persons:

- California Department of Fish and Game (DFG)
- Contra Costa Water District (CCWD)
- San Joaquin County (County)
- Joanne and Robert Hoffman

- Bradford, Susan, and Harold Lange
- North San Joaquin Water Conservation District (District)
- Woodbridge Irrigation District (Woodbridge)
- City of Lodi (Lodi)
- Mokelumne River Riparian Rights Property Owners (Property Owners)
- California Sportfishing Protection Alliance (CSPA)
- Concerned Citizens for Improved Quality Water (Concerned Citizens)
- Hoopa Valley Tribe
- San Joaquin Farm Bureau Federation (Farm Bureau)

4.1 DFG

DFG's objection alleges that the proposed change will have a significant adverse environmental impact; is an unreasonable method of use and an unreasonable method of diversion; will injure lawful users of water; will have an unreasonable effect upon fish and wildlife; will violate Fish and Game Code Sections 5650, 5937, and 6100; will violate the Water Quality Control Plan (Basin Plan); and is not in the public interest.

4.2 CCWD

CCWD's objection alleges that the proposed change will injure lawful users of water and is not in the public interest.

4.3 County; Joanne and Robert Hoffman; Bradford, Susan, and Harold Lange

The objection filed by the County, the Hoffmans, and the Langes alleges that EBMUD does not have an urgent need for water from this project during the six-month period from July 15, 1988 to January 11, 1989 and that the Bureau and EBMUD have not complied with the National

Environmental Policy Act (NEPA), the California Environmental Quality Act (CEQA), and with NPDES waste discharge requirements. It further alleges that the proposed change will violate the non-degradation policy of the Central Valley Basin Plan; will have substantial adverse environmental impacts upon fish, wildlife, recreation, and the instream beneficial uses of the lower Mokelumne River; will violate Water Code Sections 1243.5 and 1435 et seq. and Fish and Game Code Sections 1564 and 5650; will injure lawful users of water on the lower Mokelumne River; will have an adverse impact on public trust resources; is inconsistent with downstream users' rights to the use of Mokelumne River water; and is not in the public interest.

4.4 District

The District's objection alleges that substituting lower quality Delta water for Mokelumne River water will adversely affect agricultural and domestic uses and the proposed change is not in the public interest.

4.5 Woodbridge

Woodbridge's objection alleges that the proposed change will harm lawful users of Mokelumne River water; is contrary to law and beyond the jurisdiction of the Board; and is not in the public interest. It further alleges that EBMUD has not complied with CEQA and lacks an urgent need to place Delta water behind Camanche Dam.

4.6 Lodi

Lodi's objection alleges that the proposed change will have adverse impacts on the ground water from which Lodi draws its drinking water and on the recreational use of Lodi Lake caused by the introduction of

water hyacinths and non-native fish species. It further alleges that EBMUD has not complied with CEQA.

4.7 Property Owners

The Property Owner's objection alleges that the proposed change will injure lawful users of water, will have adverse environmental impacts, and will be contrary to law.

4.8 CSPA

CSPA's objection alleges that the proposed change will violate the public trust; will violate Article X, Section 2 of the California Constitution; will not be in the public interest; will have adverse environmental impacts on the Mokelumne River and the Delta; will be an unreasonable method of diversion; will injure lawful users of the waters of the Mokelumne River below Camanche Reservoir; will have unreasonable effects on fish, wildlife, and other instream beneficial uses; will violate water quality standards and objectives; will violate Fish and Game Code Sections 5650, 5937, and 6400; and will violate Water Code Sections 100, 275, 1243, 1257, and 1435. It also alleges that EBMUD lacks an urgent need for the project and has not complied with CEQA.

4.9 Concerned Citizens

The Concerned Citizens' objection alleges that EBMUD has not complied with CEQA and lacks an urgent need for the proposed change. It further alleges that the proposed change will have an adverse impact on water quality.

4.10 Hoopa Valley Tribe

The Hoopa Valley Tribe's objection alleges that the proposed change will have unreasonable adverse impacts on fish, wildlife, and other instream beneficial uses and will injure lawful users of water. It further alleges that the Bureau and EBMUD have not complied with NEPA and CEQA, and there is no water available for appropriation from the Trinity River.

4.11 Farm Bureau

The Farm Bureau's objection alleges that the proposed change will have adverse environmental impacts and will injure lawful users of the Mokelumne River. It further alleges that EBMUD does not have an urgent need for the proposed change.

5.0 APPLICABLE LAW

Water Code Section 1435, et seq., provides that a conditional, temporary change order may be issued by the Board to any permittee or licensee who has an urgent need to change a point of diversion, place of use, or purpose of use from that specified in the permit or license. In order to approve a temporary change order, the Board must make all of the following findings:

1. The petitioner has an urgent need to make the proposed change.

2. The proposed change may be made without injury to any other lawful user of water.

3. The proposed change may be made without unreasonable effect upon fish, wildlife, or other instream beneficial uses.

4. The proposed change is in the public interest.

Further, the Board is required to adopt findings to support change order conditions imposed to assure that the change is consistent with the above findings.

6.0 KEY ISSUES

The following key issues were noticed for the hearing on this matter:

1. Does EBMUD have an urgent need for the water?

2. Is the proposed change in the public interest?

3. Will the proposed change injure any lawful user of water?

4. Can the proposed change be made without unreasonable effect upon fish, wildlife, or other instream beneficial uses?

5. What conditions should be made part of any order issued to assure that no lawful user of water is injured and that there are no unreasonable effects upon fish, wildlife, and other instream uses?

In addition to the key issues listed above, other relevant issues noticed for the hearing were:

1. Is the proposed change within the Board's jurisdiction?

2. Will the proposed change have an adverse environmental impact?

3. Will the proposed change result in waste, unreasonable method of use, or unreasonable method of diversion?

4. Will the proposed change impair public trust uses?

5. Is the proposed change contrary to law?

6. Will the proposed change conflict with a general or coordinated plan or with water quality objectives established pursuant to law (Water Code Section 10504)?

Because the evidence presented at the hearing on these issues was presented in the context of the key issues, the discussion below is limited to those issues.

7.0 URGENCY

EBMUD now has an urgent need to acquire an additional water supply in order to meet its requirements in the event of a third consecutive dry year and to put in place a system capable of delivering that additional supply.

EBMUD needs a minimum total carryover storage of 260,000 af by September 30 of any year (EBMUD 42). The amount of storage which is projected as of September 30, 1988 is 305,000 af (EBMUD 43) which is adequate.

Additions to storage depend upon rainfall and runoff. If 1989 is a repeat of 1977, 129,000 af will be added to storage (EBMUD 43). If 1989 is a one-in-twenty-year occurrence, 245,000 af will be added to storage (EBMUD 43). If 1989 is a one-in-ten-year occurrence, 300,000 af will be added to storage (EBMUD 43). The uses of that stored water include 240,000 af for consumption by EBMUD customers, 20,000 af for evaporation, and either 115,000 af (year similar to 1977) or 145,000 af (one-in-twenty or one-in-ten year) for downstream needs (EBMUD 43). Assuming 25 percent conservation by EBMUD customers, consumption would be reduced to 180,000 af. Therefore, without adequate rainfall and runoff next year, EBMUD may not meet its minimum carryover requirements as of September 30, 1989.

8.0 INJURY TO OTHER LAWFUL USERS OF WATER

The project proposed by EBMUD may impact lawful users who divert water from the lower Mokelumne River and rely on the Mokelumne River to recharge the ground water. EBMUD has proposed a variety of mitigation measures, but has not been able to show that those measures will eliminate potential injuries to other lawful water users.

8.1 Municipal and Domestic Water Users

The proposed project would increase the concentration of a number of constituents (such as trihalomethanes and sodium) which are of concern to municipal and domestic water users. EBMUD failed to show that the increased concentrations of these constituents would not harm these water users.

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Urgency Change Order On Permits 12721, 11967, 12722, 12723 12727, 11315, 11316, 11968, 11969, 12860, 11971, 11973 and 12364 issued pursuant to (Applications 5626, 5628, 9363, 9364, 9368, 13370, 13371, 15374, 15375, 15764, 16767, 17374 and 17376) U.S. BUREAU OF RECLAMATION, Permittee	ORDER: WR 88- 5 SOURCE: Old River COUNTY: Contra Costa

ORDER VALIDATING ISSUANCE OF CONDITIONAL

TEMPORARY URGENCY CHANGE

IN POINT OF DIVERSION AND REDIVERSION

BY THE BOARD:

The U.S. Bureau of Reclamation (Bureau) having filed a petition for a Temporary Urgency Change in point of diversion and rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the State Water Resources Control Board (Board) having consulted with the U.S. Fish and Wildlife Service (Service), the Department of Fish and Game (DFG) and the Department of Water Resources (DWR); Chairman W. Don Maughan having concluded from available information that the Bureau qualifies for a Temporary Urgency Change and having issued a Conditional Temporary Urgency Change Order on March 14, 1988, subject to review and validation by the Board as provided by Water Code Section 1435 (d); the Board finds as follows:

Substance of the Proposed Change

1. The Bureau filed a petition with the Board on March 9, 1988 to add the State Water Project (SWP) Harvey O. Banks Pumping Plant (Banks Plant) as a temporary point of diversion and rediversion in the Bureau permits set forth in Table 1, to pump (in March and April 1988) water to make up for diversions that will be curtailed to facilitate changes in flow regime requested by DFG and the Service as a part of operational studies during April and June 1988.

Table 1
Water Right Applications and Permits Covered by
The Petition for Temporary Urgency Change

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
9368	12727
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860
16767	11971
17374	11973
17376	12364

The petition requests that, in addition to the existing Central Valley Project (CVP) point of diversion and rediversion specified in the permits, the permittee be allowed to divert or redivert water temporarily under said permits at the Clifton Court Forebay Intake of the Banks Plant at the following location:

California coordinates, Zone 3, N 486,035; E 1,695,057; within NW 1/4 of SE 1/4 of projected Section 20, T1S, R4E, MDB&M.

2. The petition requests that diversion and rediversion at the Banks Plant be authorized from March 14 through April 30, 1988 with the total amount diverted or rediverted in March and April not to exceed the quantity that otherwise could be made up in July and August, after the May and June curtailment required in Decision 1485, Condition 3. The petition also states that the quantity of make-up water pumped at the Banks Plant during July and August for the Bureau in accordance with Condition 3 would be reduced by the quantity pumped under the petitioned temporary urgency change, less the quantity of curtailment for the studies requested by DFG and the Service.

Reason for Change

3. Low flow conditions, expected in the spring of this dry water year, make it possible to conduct a series of experiments as part of operational studies (studies) to evaluate the effects of temperature and the operation of the Delta Cross Channel Gates on the survival of young Chinook (King) Salmon passing through the Sacramento-San Joaquin Delta (Delta).

4. To carry out these studies, both DWR and the Bureau have been asked to modify their normal operations to attain similar flow conditions at Rio Vista in April and June, with and without the Delta Cross Channel

Gates open. In order to achieve the flows with the Delta Cross Channel Gates closed, export water will need to be reduced for several days. The exact duration and magnitude of this curtailment is not yet known.

5. The Bureau expects to have insufficient capacity available through the Tracy Pumping Plant this spring to accommodate flow regime changes and pumping curtailments requested by DFG and the Service without depleting the storage in the Federal portion of San Luis Reservoir thereby requiring shortages to be imposed on CVP contractors.

Notice and Responses

6. Notice of the petition for a temporary urgency change was provided by publication and by mail to interested parties. The Board received responses from four interested parties; two supported the proposed change, one commented on the proposed change and one opposed the proposed change. DFG and the Service supported the change. East Contra Costa Irrigation District commented and sought assurance that there would be no provision in the order that would conflict with Paragraph 4 "Water Surface Elevation" of its contract with DWR. The California Sportfishing Protective Alliance (CSPA) listed seven objections. Objection number one was simply a statement of CSPA concerns about normal operation of the CVP and SWP. Number two alluded to CSPA objections to the Bay-Delta hearing process. Number three requests that the results of the current fishery studies be included in the records for the Bay-Delta hearings. Number four requested that the proposed studies include recommendations for the Board's determination under its public trust responsibilities. Number five addressed daily reporting requirements already included in the

Conditional Temporary Urgency Change Order signed by Chairman Maughan March 14, 1988. Number six asked Board staff to monitor the reporting requirements already included in conditions of the March 14, 1988 order. Number seven requested that DFG and the Service monitor and report any adverse impacts below various storage and diversion points in the CVP and SWP. The Board has considered the comments and objections and found that none of them raise issues necessitating a hearing, nor have any of the objectors shown that the proposed change would cause injury to any lawful user of water or would have an unreasonable effect upon fish, wildlife, or other instream beneficial uses.

Additional Findings

7. The proposed action is a series of operating experiments, data collection and resources evaluation activities which do not result in a serious or major disturbance to environmental resources.

8. The Chief, Division of Water Rights, is authorized to file a Notice of Exemption pursuant to Section 15306 of the State EIR Guidelines.

9. The permittee has a temporary urgent need to add the proposed point of diversion and rediversion at Banks Plant to pump replacement water for curtailments pursuant to DFG and the Service's operation studies in the Delta.

10. DWR staff has informed Board staff that it is willing and able to wheel the replacement water for the Bureau through the Banks Plant and the California Aqueduct to O'Neill Forebay.

11. The temporary urgency change validated by this order does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water and does not unreasonably affect fish, wildlife, and other instream beneficial uses.

Action by Board Chairman Maughan

12. In accordance with the authorization in Water Code Section 1435(d), the Board adopted Resolution 84-2 delegating authority to individual Board members to approve temporary changes on projects where no detrimental effects are anticipated.

13. In accordance with the delegation of authority in Resolution 84-2, Board Chairman Maughan issued a Conditional Temporary Urgency Change Order on March 14, 1988 allowing a temporary change to add the point of diversion and rediversion at Clifton Court Forebay under the permits listed in Table 1, subject to several specified conditions.

ORDER

1. IT IS HEREBY ORDERED THAT issuance of the March 14, 1988 order by Board Chairman Maughan allowing a Conditional Temporary Urgency Change in point of diversion and point of rediversion under Permit 12721 and 12 others is validated subject to the terms and conditions specified in the order.

2. IT IS FURTHER ORDERED THAT the quantity of make-up water pumped at the Banks Plant for the Bureau during July and August, 1988 pursuant to Decision 1485, Condition 3, shall be reduced by the quantity pumped under this temporary urgency change, less the quantity of the curtailment of pumping at the Tracy Pumping Plant for the April and June 1988 studies requested by DFG and the Service.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on April 6, 1988.

AYE: W. Don Maughan
Edwin H. Finster
Eliseo Saminego
Danny Walsh

NO: none

ABSENT: Darlene E. Ruiz

ABSTAIN: None

Maureen Marche'
Administrative Assistant to Board

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Urgency Change Order On Permits 12721, 11967, 12722, 12723, 12727, 11315, 11316, 11968, 11969, 12860, 11971, 11973, 12364 and 13776 (Applications 5626, 5628, 9363, 9364, 9368, 13370, 13371, 15374, 15375, 15764, 16767, 17374, 17376 and 18115) U.S. BUREAU OF RECLAMATION, Permittee	)	Order: WR 87- 12 Source: Old River County: Contra Costa

ORDER VALIDATING CONDITIONAL
TEMPORARY URGENCY CHANGE
IN POINT OF DIVERSION

BY THE BOARD:

The U.S. Bureau of Reclamation (Bureau) having filed a petition for a conditional temporary urgency change in point of diversion and rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the Board having consulted with the U.S. Fish and Wildlife Service, the Department of Fish and Game and the Department of Water Resources (DWR); Chairman W. Don Maughan having concluded from available information that the Bureau qualifies for a temporary urgency change and having issued a conditional temporary urgency change order on October 20, 1987, subject to review and validation by the Board as provided by Water Code Section 1435(d); the Board finds as follows:

Substance of the Proposed Change

1. The Bureau filed a petition with the State Water Resources Control Board (Board) on October 14, 1987 to add the Harvey O. Banks Pumping plant (Banks Plant) operated by the Department of Water Resources (DWR) as a temporary point of diversion and rediversion in the Bureau permits specified in Table 1 below to pump the amount of water foregone by changes in operation of the Central Valley Project requested by the Department of Fish and Game (DFG):

TABLE 1
WATER RIGHT PERMITS COVERED BY
THE PETITION FOR TEMPORARY URGENCY CHANGE

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
9368	12727**
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860*
16767	11971
17374	11973**
17376	12364
18115	13776

* This permit allows diversion of water to storage in San Luis Reservoir.
**These permits allow direct diversion of water only and cannot be used to place water into storage as requested in this petition.

The October 14, 1987 petition requests that, in addition to the existing point of diversion and rediversion specified in the permits, the permittee be allowed to divert or redivert water temporarily under said permits at the Clifton Court Forebay Intake of the State Water Project, Harvey O. Banks Pumping Plant (Banks Plant) at the following location:

> California Coordinates, Zone 3, North 486,035; East 1,695,057; being within the NW{ of SE{ of projected Section 20, T1S, R4E, MDB&M.

2. The petition for a temporary urgency change requests that diversion and rediversion at the Banks Plant be authorized to pump the amount of water not to exceed 80,000 acre-feet (ac-ft), not exported because of certain changes in operation during October and November, 1987 requested by Department of Fish and Game (DFG).

Temporary Urgency Need

3. The Bureau's dry year contingency schedule of releases below Keswick Dam showed substantial reductions in flows of the Sacramento River later this fall to conserve reservoir storage. The scheduled reductions could have resulted in the stranding of spawning salmon and dewatering of a significant number of salmon spawning beds and spawned eggs by early November if no mitigation actions were taken.

4. On October 14, 1987, DFG requested the Bureau to reduce flow immediately in the Sacramento River below Keswick Dam from about 6,000 cubic feet per second (cfs) to about 4,500 cfs with an increase in the proportion of releases of cooler Trinity River water at Keswick Dam to improve and

maintain more stable minimum flows favorable to spawning conditions in the Sacramento River during the period October 15, through about November 30, 1987. The Bureau complied with this request immediately. The result of compliance is a reduction in the total quantity of water the Bureau can divert or redivert through the Delta at its diversion facilities near Tracy without a temporary permit change.

5. The DFG also requested curtailment of diversion at the Bureau's Tracy Pumping Plant for improved passage of outmigrating yearling salmon from the DFG Merced River spawning channel between October 24, 1987 and November 3, 1987.

6. The Bureau expects to have insufficient capacity available through the Tracy Pumping Plant later this water year to make up for the flow reductions requested by DFG (about 80,000 ac-ft), if runoff this year is normal or above.

7. The requested modification of flows below Keswick Dam and curtailment of pumping at Tracy for Merced River yearly salmon passage will reduce the amount of stored water being transferred by the Bureau from storage north of the Delta to San Luis Reservoir south of the Delta.

Notice and Response

8. Notice of the petition for temporary urgency change was provided by publication in the Contra Costa Times October 26, 1987 and by mail to interested parties. The Board received a written objection from Contra Costa County Water Agency (Contra Costa) on November 12, 1987, two days after the objection period ended.

9. Contra Costa pointed out that the current water year may be classified as "dry" and alleged that rediversion of CVP storage releases out of the Delta may jeopardize the ability of the CVP to maintain adequate salinity control in the Delta later in the water year. The order approving a temporary urgency change allows either diversion or rediversion of an amount by which diversions at the Bureau Tracy Pumping Plant are reduced during the period of October 15 through November 30 pursuant to the DFG request. The Bureau has advised that as of October 12, 1987, the amount allowed under the accounting procedure in Term 4 of the October 20, 1987 order will be about 8,500 acre-feet. The reduced amounts of the replacement pumping and the option to use direct diversion for replacement over a three-month period of time makes it apparent that the deferral of pumping will, in fact, enhance the Bureau's capacity to meet Delta salinity standards in 1988.

10. Contra Costa also expressed concern that the petition is an "end run" around the EIR requirement for the earlier 80,000 acre-feet trial transfer and that there could be environmental or other impacts that are not addressed in the petition filed by the Bureau. The present action is not an "end run" around applicable CEQA requirements because the proposed trial transfers would allow additional exports from the Delta in a given water year, whereas the present action would allow no such increase. Approval of the present temporary urgency change would simply authorize a shift in monthly export amounts in an environmentally beneficial manner. Board

staff has reviewed the potential impacts of the proposed action and on October 21, 1987 filed a Notice of Exemption pursuant to Section 15307 of the State EIR Guidelines.

Other Findings by the Board

11. The proposed action is an urgent measure that will reduce adverse temperature effects on salmon spawning due to unusually dry conditions and will result in improved habitat conditions in the Sacramento River below Keswick Dam by maintaining moderate flows until after the spawned salmon eggs hatch and emerge as fry.

12. Having considered the objection of Contra Costa, the Board concludes it does not raise issues requiring a hearing, nor does it present any evidence to indicate that the proposed change would cause injury to any lawful user of water or have unreasonable effects upon wildlife or other instream beneficial uses.

13. The proposed reductions in pumping at the Tracy Plant will have a secondary benefit in facilitating the outmigration of yearling salmon scheduled for release from the DFG Merced River Spawning Channel on October 19, 1987. Pumping at the Tracy Plant will be curtailed October 24 through November 3 to create more favorable conditions in the Southern Delta for passage of the yearling salmon.

14. The Chief of the Division of Water Rights is authorized to file a Notice of Exemption pursuant to Section 15307 of the State EIR Guidelines.

15. Permits 12727 and 11973 (Applications 9368 and 17374) allow direct diversion of water only and cannot be used to place water into storage.

staff has reviewed the potential impacts of the proposed action and on October 21, 1987 filed a Notice of Exemption pursuant to Section 15307 of the State EIR Guidelines.

Other Findings by the Board

11. The proposed action is an urgent measure that will reduce adverse temperature effects on salmon spawning due to unusually dry conditions and will result in improved habitat conditions in the Sacramento River below Keswick Dam by maintaining moderate flows until after the spawned salmon eggs hatch and emerge as fry.

12. Having considered the objection of Contra Costa, the Board concludes it does not raise issues requiring a hearing, nor does it present any evidence to indicate that the proposed change would cause injury to any lawful user of water or have unreasonable effects upon wildlife or other instream beneficial uses.

13. The proposed reductions in pumping at the Tracy Plant will have a secondary benefit in facilitating the outmigration of yearling salmon scheduled for release from the DFG Merced River Spawning Channel on October 19, 1987. Pumping at the Tracy Plant will be curtailed October 24 through November 3 to create more favorable conditions in the Southern Delta for passage of the yearling salmon.

14. The Chief of the Division of Water Rights is authorized to file a Notice of Exemption pursuant to Section 15307 of the State EIR Guidelines.

15. Permits 12727 and 11973 (Applications 9368 and 17374) allow direct diversion of water only and cannot be used to place water into storage.

16. The permittee has a temporary urgent need to add the proposed point of diversion and rediversion at DWR's Banks Pumping Plant to replace water which would normally be transferred between October 15 and about November 30 from reservoirs north of the Delta to storage in San Luis Reservoir for subsequent delivery to water users under existing contracts.

17. DWR staff has informed Board staff that DWR is willing to wheel the replacement water for the Bureau through the Banks Plant and the California Aqueduct to storage in San Luis Reservoir.

18. The Bureau submitted an accounting procedure pursuant to Term 4 of the October 20, 1987 order and the Board finds that the procedure is satisfactory.

19. The temporary urgency change validated by this order does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water and does not unreasonably affect fish, wildlife or other instream beneficial uses. The temporary urgency change validated by this order is in the public interest and will further the constitutional policy to maximize the beneficial use of water.

Action by Board Chairman Maughan

20. In accordance with the authorization in Water Code Section 1435(d), the Board adopted Resolution 84-2 delegating authority to individual Board members to approve temporary changes on projects where no detrimental effects are anticipated.

21. In accordance with the delegation of authority in Resolution 84-2, Board Chairman Maughan issued a conditional temporary urgency change order on

16. The permittee has a temporary urgent need to add the proposed point of diversion and rediversion at DWR's Banks Pumping Plant to replace water which would normally be transferred between October 15 and about November 30 from reservoirs north of the Delta to storage in San Luis Reservoir for subsequent delivery to water users under existing contracts.

17. DWR staff has informed Board staff that DWR is willing to wheel the replacement water for the Bureau through the Banks Plant and the California Aqueduct to storage in San Luis Reservoir.

18. The Bureau submitted an accounting procedure pursuant to Term 4 of the October 20, 1987 order and the Board finds that the procedure is satisfactory.

19. The temporary urgency change validated by this order does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water and does not unreasonably affect fish, wildlife or other instream beneficial uses. The temporary urgency change validated by this order is in the public interest and will further the constitutional policy to maximize the beneficial use of water.

Action by Board Chairman Maughan

20. In accordance with the authorization in Water Code Section 1435(d), the Board adopted Resolution 84-2 delegating authority to individual Board members to approve temporary changes on projects where no detrimental effects are anticipated.

21. In accordance with the delegation of authority in Resolution 84-2, Board Chairman Maughan issued a conditional temporary urgency change order on

October 20, 1987 allowing a temporary change in the point of diversion at Clifton Court Forebay under Permit 12860 subject to several specified conditions.

ORDER

IT IS HEREBY ORDERED THAT:

1. The issuance of the October 20, 1987 order by Board Chairman Maughan allowing a conditional Temporary Urgency Change in point of diversion and point of rediversion under Permit 12721 and 10 others is validated subject to the terms and conditions specified in the order except as corrected below.

2. Condition 1. b[illegible]f the order is corrected to rea[illegible] follows:

Rediversion of releases of stored water to storage in San Luis Reservoir under Permits 12721, 11967, 12722, 12723, 11315, 11316, 11968, 11969, 11971, 12364, and 13776 (Applications 5626, 5628, 9363, 9364, 13370, 13371, 15374, 15375, 16767, 17376 and 18115).

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of State Water Resources Control Board held on November 17, 1987.

Aye: W. Don Maughan
Darlene E. Ruiz
Edwin H. Finster
Danny Walsh
Eliseo M. Samaniego

No: None

Absent: None

Abstain: None

Maureen Marché

Maureen Marche
Administrative Assistant to the Board

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Conditional Temporary Urgency Change Order On Permit 12860 (Application 15764) U.S. BUREAU OF RECLAMATION, Permittee	)	ORDER: WR 87 - 10 SOURCE: Old River COUNTY: Contra Costa

ORDER VALIDATING AND MODIFYING ISSUANCE OF CONDITIONAL TEMPORARY URGENCY CHANGE IN POINT OF DIVERSION

BY THE BOARD:

The U.S. Bureau of Reclamation (Bureau) having filed a petition for a conditional temporary urgency change in point of diversion and rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the Board having consulted with the U.S. Fish and Wildlife Service, the Department of Fish and Game and the Department of Water Resources (DWR); Chairman W. Don Maughan having concluded from available information that the Bureau qualifies for a temporary urgency change and having issued a conditional temporary urgency change order, subject to review and validation by the Board as provided by Water Code Section 1435; the Board finds as follows:

Substance of the Proposed Change

1. On July 27, 1987, the Bureau filed a petition for a temporary urgency change in the point of diversion under the 13 water right permits specified in Table 1 Below:

Table 1
Water Right Permits Covered by
The Petition For Temporary Urgency Change

Application	Permit
5626	12721*
5628	11967*
9363	12722*
9364	12723*
9368	12727**
13370	11315*
13371	11316*
15374	11968*
15375	11969*
15764	12860
16767	11971*
17374	11973**
17376	12364*

*These permits allow rediversion of water stored north of the Delta to use or to storage in San Luis Reservoir (rediversion) using the permittee's Tracy Pumping Plant and the Delta Mendota Canal.

**These permits allow direct diversion of water only and cannot be used to place water into storage.

The July 27, 1987 petition requests that, in addition to the existing point of diversion and rediversion specified in the permits, the permittee be allowed to divert or redivert water temporarily under said permits at the Clifton Court Forebay Intake of the State Water Project, Harvey O. Banks Pumping Plant (Banks Plant) at the following location:

California Coordinates, Zone 3, N 486,035; E 1,695,057;

within NW¼ of SE¼ of projected Section 20, T1S, R4E, MDB&M.

2. The petition for a temporary urgency change requests that the diversion and rediversion at the Banks Plant be authorized from September 1, 1987 to April 30, 1988 with the total amount diverted or rediverted not to exceed 10,000 acre-feet (ac-ft) for use at Kern National Wildife Refuge (Kern NWR). Subsequent correspondence from Kern NWR reduced that amount to 6,200 ac-ft.

Temporary Urgency Need

3. The urgent need to utilize facilities of the State Water Project (SWP) arises as a result of the Kern NWR requirement for 6,200 ac-ft of water for waterfowl habitat which, due to unusually dry conditions, is not available from the normal sources of surface water supply previously used by the refuge.

4. Petitioner states that this action is needed to provide important wintering migratory waterfowl habitat on the refuge and that no substitute supply is available. Marsh habitat in the Central Valley of California is in critically short supply and flooding this fall is urgently needed to support Pacific Flyway waterfowl. The water to be applied to Kern NWR is especially important to produce wildlife food crops and to make this food available to waterfowl during the winter period. The proposed action of applying good quality water for wetland habitat at Kern NWR will provide a direct benefit to migratory waterfowl. Wetland habitat values will be greatly restricted if the water is not delivered. The proposed action will also assist the U.S. Fish and Wildlife Service in carrying out its responsibilities for management of migratory bird resources.

Notice and Responses

5. Notice of the petition for a temporary change was provided by publication and by mail to interested parties. The Board received responses from eight interested parties; three supported the proposed change, three commented on the proposed change and two opposed the proposed change.

6. Contra Costa Water Agency objects to the proposed change based on the contention that there is insufficient justification and contends no "urgency" for the change exists, as required by statute. As explained in the preceeding paragraphs, however, there is sufficient evidence for the Board to conclude that there is an urgent need to approve the change in order to maintain waterfowl habitat under the unusually dry conditions existing this year.

7. Central Delta Water Agency and Conrad Sylva joined in an objection to the proposed change based on alleged adverse effects to "water levels and water quality." No explanation is provided regarding the "water levels" contention. With respect to water quality, the Board finds that Delta water quality will be adequately protected by the provision of Chairman Maughan's September 11, 1987 order which effectively restricts diversion of water under the temporary urgency change to times when Delta outflow exceeds the amount required to meet the water quality standards established by Decision 1485.[1]

---

[1] The change order restricts diversion to times when the Delta "is not in a balanced condition". The Delta is said to be in balanced conditions when Delta inflow is just sufficient to satisfy Delta consumptive use, Delta and Suisun Marsh water quality standards, CVP & SWP water quality objectives at their export facilities in the Southern Delta and Delta export demands. When Delta inflow is in excess of these demands the Delta is not in balanced conditions.

8. The Board has considered the comments and objections and found that none of them raise issues necessitating a hearing, nor have any of the objectors shown that the proposed change would cause injury to any lawful user of water or have unreasonable effect upon fish, wildlife, or other instream beneficial uses.

Other Findings by the Board

9. Permits 12727 and 11973 (Application 9368 and 17374) allow direct diversion of water only and cannot be used to place water into storage.

10. Permits 12721, 11967, 12722, 12723, 11315, 11316, 11968, 11969, 11971 and 12364 (Applications 5626, 5628, 9363, 9364, 13370, 13371, 15374, 15375, 16767 and 17376) allow rediversion of stored water to use or to restorage in San Luis Reservoir through the permittee's Tracy Pumping Plant.

11. Permit 12860 (Application 15764) allows diversion at the permittee's Tracy Pumping Plant to storage in San Luis Reservoir.

12. DWR staff has informed Board staff that DWR is willing to wheel the replacement water for the Bureau through the Banks Plant and the California Aqueduct to storage in San Luis Reservoir.

13. The temporary urgency change as approved in this order does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water and does not unreasonably affect fish, wildlife or other instream beneficial uses.

14. The proposed action is an emergency measure under CEQA that will avoid adverse effects on wildlife habitat and wildlife due to unusually dry conditions.

Action by Board Chairman Maughan

15. In accordance with the authorization in Water Code Section 1435(d), the Board adopted Resolution 84-2 delegating authority to individual Board members to approve temporary changes on projects where no detrimental effects are anticipated.

16. In accordance with the delegation of authority in Resolution 84-2, Board Chairman Maughan issued a conditional temporary urgency change order on September 11, 1987 allowing a temporary change in the point of diversion at Clifton Court Forebay under Permit 12860 subject to several specified conditions.

ORDER

IT IS HEREBY ORDERED THAT:

1. Issuance of the September 11, 1987 order by the Board Chairman Maughan allowing a conditonal Temporary Urgency Change in point of diversion and point of rediversion under Permit 12860 is validated subject to the terms and conditions specified in the order as revised herein.

2. Condition 2 of the order is corrected to read as follows:

   Use of Clifton Court Forebay and the Banks Plant to transfer (redivert) stored water into San Luis Reservoir under Permits 12721, 11967, 12722, 12723, 11315, 11316, 11968, 11969, 11971 and 12364 (Application 5626, 5628, 9363, 9364, 13370, 13371, 15374, 15375, 16767 and 17376) is not authorized under this temporary urgency change.

3. Condition 3 of the order is modified to read as follows:

Diversion of water at the Banks Pumping Plant under this order is authorized beginning November 1, 1987 and continuing until 6,200 ac-ft are delivered to San Luis Reservoir or until March 10, 1988, whichever occurs first and shall then be of no further force or effect unless extended by the Board prior to that event.

4. Condition 10 of the order is updated to read as follows:

> Pursuant to California Water Code Sections 100 and 275, and the common law public trust doctrine, all rights and privileges under this permit and under any license issued pursuant thereto, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.
>
> The continuing authority of the Board may be exercised by imposing specific requirements over and above those contained in this permit with a view to eliminating waste of water and to meeting the reasonable water requirements of permittee without unreasonable draft on the source. Permittee may be required to implement a water conservation plan, features of which may include but not necessarily be limited to: (1) reusing or reclaiming the water allocated; (2) using water reclaimed by another entity instead of all or part of the water allocated; (3) restricting diversions so as to eliminate agricultural tailwater or to reduce return flow; (4) suppressing evaporation losses from water surfaces; (5) controlling phreatophytic growth; and (6) installing, maintaining, and operating efficient water measuring devices to assure compliance with the quantity limitations of this permit and to determine accurately water use as against reasonable water requirements for the authorized project. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such specific requirements are physically and financially feasible and are appropriate to the particular situation.

The continuing authority of the Board also may be exercised by imposing further limitations on the diversion and use of water by the permittee in order to protect public trust uses. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such action is consistent with California Constitution Article X, Section 2; is consistent with the public interest and is necessary to preserve or restore the uses protected by the public trust.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on October 8, 1987.

Aye: W. Don Maughan
Darlene E. Ruiz
Edwin H. Finster

No: None

Absent: Danny Walsh
Eliseo M. Samaniego

Abstain: None

Maureen Marché

Maureen Marche'
Administrative
Assistant to Board

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Temporary Change Order Regarding Permit 12721 (Application 5626) and 12 Other Permits U. S. BUREAU OF RECLAMATION, Permittee	ORDER: WR 86-4 SOURCE: Various sources COUNTIES: Alameda, Sacramento, Shasta, Trinity

ORDER MODIFYING AND REISSUING

TEMPORARY URGENCY CHANGE IN POINT OF DIVERSION AND REDIVERSION

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a temporary urgency change in point of diversion and point of rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the Board having consulted with the Department of Water Resources and the Department of Fish and Game; Board Member Samaniego having concluded from available information that the Bureau qualifies for a temporary urgency change and having issued a temporary urgency change order, subject to review and validation by the Board as provided by Water Code Section 1435; the South Delta Water Aency and Central Delta Water Agency having subsequently requested that approval of the temporary urgency change include certain conditions; the Board having duly considered the petition for a temporary change, the requests by South Delta Water Agency and Central Delta Water Agency and other related information; the Board finds as follows:

1.0 SUBSTANCE OF THE PROPOSED CHANGE

On February 13, 1986, the Bureau filed a petition for a temporary urgency change in the point of diversion and point of rediversion under the 13 water right permits specified in Table I below:

TABLE I

WATER RIGHT PERMITS COVERED BY

THE PETITION FOR TEMPORARY URGENCY CHANGE

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860
16767	11971
17374	11973
17376	12364
21542	15149

The petition requests that, in addition to the points of diversion and rediversion specified in the permits, the permittee be allowed to divert or redivert water temporarily under said permits from the Department of Water Resources' Harvey O. Banks Pumping Plant Plant at the following location:

> California Coordinates, Zone 3, N 486,035; E 1,695,057; within NW 1/4 of SE 1/4 of Projected Section 20, T1S, R4E, MDB&M.

The petition for a temporary urgency change requests that the diversion and rediversion at the Banks Pumping Plant be authorized from February 24, 1986 to April 7, 1986 at a maximum rate of 6000 cubic feet per second with the total amount diverted or rediverted not to exceed 100,000 acre-feet.

2.0 TEMPORARY URGENCY NEED

The urgent need to utilize Department of Water Resources' facilities arises from the curtailment of pumping through the Central Valley Project and State Water Project Delta facilities proposed by the California Department of Fish and Game for striped bass tests scheduled during April 1986. These tests are designed to determine whether maintenance of specific flow regimes in the Delta stimulate production of food organisms important to survival of young striped bass. Information from these tests may help determine the cause for the recent decline in young striped bass.

The Bureau must replace pumping capacity foregone during these tests to enable the federal portion of San Luis Reservoir to be filled for the 1986 irrigation season. Replacement of this lost pumping capacity with capacity at the Banks Pumping Plant is proposed. The increased period of replacement diversion over that of the pumping curtailment is requested so that the capacity available at the Banks Pumping Plant may be more economically utilized and that there may be a margin of safety if that plant should be down for any length of time during the period. When available, off-peak energy periods will be used. The quantities to be diverted will not exceed the quantities that would have been diverted, absent the striped bass test.

3.0 CALIFORNIA ENVIRONMENTAL QUALITY ACT

The State Water Resources Control Board staff has prepared a Notice of Exemption specifying the reason why the above proposed action qualifies for a Categorical Exemption Class 6 (information collection) in accordance with Title 14, California Administrative Code, Section 15306.

4.0 ACTION BY BOARD MEMBER SAMANIEGO

In accordance with the authorization of Water Code Section 1435, the Board has adopted Resolution 84-2 delegating authority to an individual Board Member to approve temporary changes on projects where no detrimental effects are indicated. Water Section 1435(b) requires the Board, at its next regular meeting, to review and validate and change order issued by an employee.

In accordance with the delegation of authority in Resolution 84-2, Board Member Samaniego issued a change order on February 20, 1986 allowing a temporary change in the point of diversion and point of rediversion, subject to several specified conditions.

5.0 NOTICE AND RESPONSES

Notice of the petition for a temporary change was provided by publication and by mail to interested parties. The Board received responses from two parties, South Delta Water Agency and Central Delta Water Agency.

5.1 South Delta Water Agency Request

South Delta Water Agency requested that approval of the temporary change be conditioned to exclude diversion and rediversion under the temporary change at times when the water elevation at the south end of Tom Paine Slough is lower than 0.35 foot below mean sea level or the water elevation in Middle River at Undine Road is lower than 0.25 foot below mean sea level.

5.2 Central Delta Water Agency Request

Central Delta Water Agency requested that approval of the temporary change be conditioned to include the water level standards proposed by South Delta Water Agency and also provide that water quality should not exceed a 14-day running average of 0.45 millimhos EC at Emmaton on the Sacramento River, Jersey Point on the San Joaquin River, Terminous on the Mokelumne River, San Andreas Landing on the San Joaquin River, Turner Cut off the San Joaquin River and Rancho Del Rio on Old River.

5.3 Response to Requests

State Board staff contacted Bureau staff and determined the conditions requested by South Delta Water Agency and Central Delta Water Agency were acceptable to the Bureau.

6.0 BOARD FINDINGS

Having reviewed the conditions requested by South Delta Water Agency and Central Delta Water Agency, and the Bureau's agreement to accept those conditions, the Board finds that the February 20, 1986 order by Board Member Samaniego should be modified and reissued to include the conditions requested by South Delta Water Agency and Central Delta Water Agency.

NOW THEREFORE, IT IS ORDERED THAT:

1. In addition to the points of diversion and rediversion specified in the permits listed above, the Permittee may temporarily divert or redivert water under said Permits at the Department of Water Resources' Harvey O. Banks Pumping Plant at the following location:

   California Coordinates, Zone 3, N 486,035;
   E 1,695,057; within NW 1/4 of SE 1/4
   of Projected Section 20, T1S, R4E, MDB&M.

2. The temporary urgency change shall be effective for a period starting February 24, 1986 and ending April 7, 1986. At the end of this period, this authorization shall be of no further force and effect.

3. Under this temporary urgency change, the maximum rate of diversion or rediversion shall not exceed 6,000 cubic feet per second and the total quantity diverted or rediverted shall not exceed 100,000 acre-feet.

4. Under this temporary urgency change no diversion or rediversion shall take place when the water elevation at the south end of Tom Paine Slough is lower than 0.35 foot below mean sea level or the water elevation in Middle River at Undine Road is lower than 0.25 foot below mean sea level.

5. Under this temporary urgency change no diversion or rediversion shall take place when the 14-day running average electrical conductivity exceeds 0.45 millimhos at any of the following locations:

   Emmaton on the Sacramento River
   Jersey Point on the San Joaquin River
   Terminous on the Mokelumne River
   San Andreas Landing on the San Joaquin River
   Turner Cut off the San Joaquin River
   Rancho Del Rio on Old River

6. Should the total quantity of water diverted or rediverted under this temporary urgency change exceed the quantity that would have been diverted or rediverted at the Bureau's Tracy Pumping Plant absent the striped bass test, the excess water shall be credited toward that allowed under Order Condition 3 of water right Decision 1485.

7. The Permittee shall report to the State Water Resources Control Board by July 15, 1986 the maximum rate and total acre-feet diverted or rediverted at Banks Pumping Plant under this temporary urgency change. The Permittee shall also provide to the Board by July 15, 1986 an estimate of its water exports at Tracy Pumping Plant foregone due to the striped bass test.

8. The Chief of the Division of Water Rights may suspend this temporary urgency change order at any time he determines that conditions in the Bay-Delta Estuary would be more conducive to the striped bass test absent this temporary urgency change.

9. This temporary urgency change is issued and Permittee takes it subject to the California Water Code, Division 2, Chapter 6.6, Section 1435 et seq. This temporary urgency change order shall not result in creation of a vested right, even of a temporary nature, but shall be subject at all times to modification or revocation at the discretion of the Board.

10. The Board shall supervise the use of water under this temporary urgency change order for the protection of vested rights and instream beneficial uses and for compliance with this order.

11. The Chief of the Division of Water Rights is authorized to File a Notice of Exemption pursuant to Section 15306 of the State EIR Guidelines.

12. Pursuant to California Water Code Sections 100 and 275, all rights and privileges under this temporary urgency change order, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in

accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion. The continuing authority of the Board may be exercised by imposing specific requirements over and above those contained in this temporary urgency change order with a view to minimizing waste of water and to meeting the reasonable water requirements of Permittee without unreasonable draft on the source.

13. Except as expressly provided herein, all terms and conditions of these permits shall remain in effect.

14. This order supersedes the order allowing temporary urgency change in point of diversion and point of rediversion issued by Board Member Eliseo Samaniego on February 20, 1986.

CERTIFICATION

The undersigned, Interim Executive Director of the State Water Resources Control Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on March 20, 1986.

AYE: Darlene E. Ruiz
E. H. Finster
Eliseo Samaniego
Danny Walsh

NO: None

ABSENT: Raymond V. Stone

ABSTAIN: None

Raymond Walsh

Raymond Walsh
Interim Executive Director

P12722

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

ORDER

APPLICATION 5625 and 26 others (as listed on attached sheet) PERMIT 12720 and 26 others LICENSE

ORDER ALLOWING EXTENSION OF TIME
TO COMPLY WITH SUISUN MARSH STANDARDS

WHEREAS:

1. Order Condition 7(b) of Decision 1485 requires the permittee to meet specific water quality standards for full protection of the Suisun Marsh by October 1, 1984, as set forth in Table II of the Decision.

2. A petition for an extension of time to comply with the water quality standards for full protection of Suisun Marsh set forth in Order Condition 7(b) and Table II of Decision 1485 was filed by the U. S. Bureau of Reclamation on August 6, 1985.

3. The permittee has proceeded with diligence and good cause has been shown for the extension of time.

NOW THEREFORE, IT IS ORDERED THAT:

1. Order Condition 7(b) of Decision 1485 is superseded in accordance with Order Conditions 2 and 3 below.

2. Permittee shall comply with the water quality standards for full protection of Suisun Marsh set forth in Order Condition 7(a) of Decision 1485 (hereinafter termed standards) in accordance with the following schedule:

   (a) Permittee shall meet the standards by October 1, 1988 at the following locations:

      (1) Sacramento River at Collinsville Road in Collinsville (C-2)
      (2) Montezuma Slough at National Steel (three miles south of Mien's Landing) (S-64)
      (3) Montezuma Slough near Beldon Landing (0.35 miles east of Grizzly Island Bridge) (S-49)

   (b) Permittee shall either meet the standards by October 1, 1991 at:

      (1) Chadbourne Slough at Chadbourne Road (S-21), and
      (2) Cordelia Slough, 500 feet west of the Southern Pacific crossing at Cygnus (S-33),

      or meet the standards by October 1, 1993 at:

      (1) Chadbourne Slough at Chadbourne Road (S-21), and
      (2) Cordelia Slough at Cordelia-Goodyear Ditch (S-97)

   (c) Permittee shall either meet the standards by October 1, 1991 at Goodyear Slough at the Morrow Island Clubhouse (S-35), or meet the standards by October 1, 1994 at Goodyear Slough, 1.3 miles south of Morrow Island Ditch (S-75)

-83)

(d) Permittee shall meet the standards by October 1, 1997 at:

(1) Suisun Slough 300 feet south of Volanti Slough (S-42), and
(2) Water supply intake locations for waterfowl management areas on Van Sickle Island and Chipps Island.

3. Table II of Decision 1485 is amended on page 39 to replace the Suisun Marsh electrical conductivity standards that became effective October 1, 1984 with the following:

BENEFICIAL USE PROTECTED and LOCATION	PARAMETER	DESCRIPTION	YEAR TYPE	VALUES	
				Month	EC in mmhos
FISH AND WILDLIFE					
• SUISUN MARSH					
— To become effective on October 1, 1988 at: Sacramento River at Collinsville Road in Collinsville (C—2)	Electrical Conductivity (EC)	The monthly average of both daily high tide values not to exceed the values shown (or demonstrate that equivalent or better protection will be provided at the location)	All	Oct.	19.0
Montezuma Slough at National Steel (3 miles south of Mein's Landing) (S—64)				Nov.	15.5
Montezuma Slough near Beldon Landing (0.35 miles east of Grizzly Island Bridge) (S—49)				Dec.	15.5
— To become effective either on October 1, 1991 at: Chadbourne Slough at Chadbourne Road (S—21) and				Jan.	12.5
Cordelia Slough, 500 feet west of the Southern Pacific crossing at Cygnus (S—33);				Feb.	8.0
or on October 1, 1993 at: Chadbourne Slough at Chadbourne Road (S—21) and				Mar.	8.0
Cordelia Slough at Cordelia—Goodyear Ditch (S—97)				Apr.	11.0
— To become effective either on October 1, 1991 at: Goodyear Slough at the Morrow Island Clubhouse (S—35);				May	11.0
or on October 1, 1994 at: Goodyear Slough, 1.3 miles south of Morrow Island Ditch (S—75)					
— To become effective on October 1, 1997 at: Suisun Slough, 300 feet south of Volanti Slough (S—42), and					
Water supply intake locations for waterfowl management areas on Van Sickle Island and Chipps Island.					

4. By January 15 of each year, permittee shall provide, either separately or jointly with California Department of Water Resources, a written report to the Board on its progress toward achieving full compliance with this order.

Lloyd D. Johnson, Interim Chief
Division of Water Rights

Dated DECEMBER 5 1985

DECEMBER 5 1985

ATTACHMENT A

Permits of the United States Bureau of Reclamation:

Permit 12720 (Application 5625)
Permit 12721 (Application 5626)
Permit 11966 (Application 5627)
Permit 11967 (Application 5628)
Permit 12722 (Application 9363)
Permit 12723 (Application 9364)
Permit 12724 (Application 9365)
Permit 12725 (Application 9366)
Permit 12726 (Application 9367)
Permit 12727 (Application 9368)
Permit 11315 (Application 13370)
Permit 11316 (Application 13371)
Permit 11317 (Application 13372)
Permit 11318 (Application 14662)
Permit 11968 (Application 15374)
Permit 11969 (Application 15375)
Permit 11970 (Application 15376)
Permit 12860 (Application 15764)
Permit 11971 (Application 16767)
Permit 11972 (Application 16768)
Permit 11973 (Application 17374)
Permit 16209 (Application 18721)
Permit 16210 (Application 18723)
Permit 15149 (Application 21542)
Permit 16211 (Application 21636)
Permit 16212 (Application 21637)
Permit 15735 (Application 22316)

P12722

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS
ORDER ALLOWING TEMPORARY URGENCY CHANGE
IN POINTS OF DIVERSION AND POINTS OF REDIVERSION

PERMITS 12721, 11967, 12722, 12723, 12727, 11315, 11316, 11968, 11969, 12860, 11971, 11973, 12364 AND 13776 (APPLICATIONS 5626, 5628, 9363, 9364, 9368,13370, 13371, 15374, 15375, 15764, 16767, 17374, 17376 AND 18115) United States Bureau of Reclamation, Permittee

WHEREAS:

1. The United States Bureau of Reclamation (Bureau) has filed a petition for a temporary urgency change in the points of diversion and rediversion authorized in the above permits.

2. In accordance with the authorization of Water Code Section 1435, the Board has adopted Resolution No. 84-2 delegating authority to an individual Board member to approve temporary urgency changes where no detrimental effects are indicated.

3. The temporary change will allow the Bureau to use the State Water Project Harvey O. Banks Pumping Plant to place 12,800 acre-feet of water into storage in San Luis Reservoir.

4. Permits 12727 and 11973 (Applications 9368 and 17374) allow direct diversion of water only.

5. Permits 12721, 11967, 12722, 12723, 11315, 11316, 11968, 11969, 11971, 12364 and 13776 (Applications 5626, 5628, 9363, 9364, 13370, 13371, 15374, 15375, 16767, 17376 and 18115) allow transfer of stored water to storage in San Luis Reservoir at the permittee's Tracy Pumping Plant.

6. Permit 12860 (Application 15764) allows diversion at the permittee's Tracy Pumping Plant to storage in San Luis Reservoir.

7. Board staff has contacted the Department of Fish and Game who stated that the proposed temporary urgency change would not unreasonably affect fish and wildlife.

8. The staff of the Department of Water Resources has informed the Board that the Department is willing to pump water for the Bureau through the Banks Pumping Plant in the Southern Delta.

9. The temporary urgency change requested in the petition does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water and does not unreasonably affect fish, wildlife or other instream beneficial uses.

10. The permittee has a temporary but urgent need for the proposed change in order to protect the public welfare as set forth in Section 1435 of the Water Code.

11. An environmental analysis has shown that the project consists of the operation of an existing public facility involving negligible or no expansion of use beyond that previously existing and that no significant environmental impacts will result.

NOW, THEREFORE, IT IS ORDERED THAT:

1. The permittee may temporarily divert or redivert water to storage in San Luis Reservoir at California Intake of the Banks Pumping Plant at the following location:

   California Coordinates, Zone 3, N 486,035;
   E 1,695,057; within NW 1/4 of SE 1/4
   of projected Section 20, T1S, R4E, MDB&M.

   under the following permits:

   a) Diversion to storage in San Luis Reservoir under Permit 12860 (Application 15764).

   b) Rediversion to transfer stored water to San Luis Reservoir under Permits 12721, 11967, 12722, 12723, 11315, 11316, 11968, 11969, 11971, 11973 12364 and 13776 (Applications 5626, 5628, 9363, 9364, 13370, 13371, 15374, 15375, 16767, 17374, 17376 and 18115)

2. The temporary urgency change shall be effective for a period starting September 19, 1985 and ending October 15, 1985. At the end of this period, this authorization shall be of no further force and effect.

3. The total quantity of water diverted under this temporary urgency change shall not exceed 12,800 acre-feet.

4. The maximum combined rate of diversion and rediversion under these permits from both the Banks Pumping Plant and the Tracy Pumping Plant shall not exceed 4,600 cubic feet per second.

5. The Bureau shall report to the State Water Resources Control Board by November 1, 1985, the daily combined diversion of the Tracy Pumping Plant and that portion of the diversion of the Banks Pumping Plant made under this change order. The report shall also contain the total acre-feet diverted at the Banks Pumping Plant under this change order.

6. This temporary urgency change will be presented to the Board for review at its next regular meeting. Should the Board fail or refuse to validate the temporary urgency change, it shall stand revoked as of the date of said Board meeting and shall be of no further force and effect.

7. This temporary urgency change is issued and permittee takes it subject to the California Water Code, Division 2, Chapter 6.6, Section 1435 et seq. This temporary urgency change order shall not result in creation of a vested right, even of a temporary nature, but shall be subject at all times to modification or revocation at the discretion of the Board.

8. The Board shall supervise the use of water under the temporary urgency change order for the protection of vested rights and instream beneficial uses and for compliance with change order conditions.

9. The Chief of the Division of Water Rights is authorized to File a Notice of Exemption pursuant to Section 15301 of the State EIR Guidelines.

10. Pursuant to California Water Code Sections 100 and 275, all rights and privileges under this temporary urgency change order, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion.

    The continuing authority of the Board may be exercised by imposing specific requirements over and above those contained in this temporary urgency change order with a view to minimizing waste of water and to meeting the reasonable water requirements of permittee without unreasonable draft on the source.

11. Except as expressly provided herein, all terms and conditions of these permits shall remain in effect.

Dated: September 19, 1985

Edwin H. Finster
Board Member

A-5626

U. S. Bureau of Reclamation
2800 Cottage Way, MP 710
Sacramento, CA 95818

Department of Water Resources
1416 Ninth Street
Sacramento, CA 95814

Department of Fish and Game
1416 Ninth Street
Sacramento, CA 95814

Tom Graff
Environmental Defense Fund
2606 Dwight Way
Berkeley, CA 94704

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Temporary Urgency Change Order Regarding Permit 12721 (Application 5626) and 13 other Permits U. S. BUREAU OF RECLAMATION, Permittee	ORDER: 85-8 SOURCE: Various sources COUNTIES: Alameda, Sacramento, Shasta, Trinity

ORDER VALIDATING ISSUANCE OF
TEMPORARY URGENCY CHANGE ORDER

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a temporary urgency change in point of diversion and point of rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the Board having consulted with the Department of Water Resources and the Department of Fish and Game; Board Member Finster having concluded from available information that the Bureau qualifies for a temporary urgency change and having issued a temporary urgency change order, subject to review and validation by the Board as provided by Water Code Section 1435; the Board finds as follows:

Substance of the Proposed Change

1. On August 30, 1985, the Bureau filed a petition for a temporary urgency change in the point of diversion and point of rediversion under the 14 water right permits specified in Table I below:

TABLE I
WATER RIGHT PERMITS COVERED BY
THE PETITION FOR TEMPORARY URGENCY CHANGE

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
9368	12727
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860
16767	11971
17374	11973
17376	12364
18115	13776

The petition requests that, in addition to the points of diversion and rediversion specified in the permits, the permittee be allowed to divert or redivert water temporarily under said permits at the California Aqueduct Intake for the Banks Pumping Plant at the following location:

California Coordinates, Zone 3, N486,035; E 1,695,057; within NW 1/4 of SE 1/4 of projected Section 20, T1S, R4E, MDB&M.

Action by Board Member Finster

5. In accordance with the authorization of Water Code Section 1435, the Board has adopted Resolution 84-2 delegating authority to an individual Board member to approve temporary changes on projects where no detrimental effects are indicated. Water Section 1435(b) requires the Board, at its next regular meeting, to review and validate any change order issued by an employee.

6. In accordance with the delegation of authority in Resolution 84-2, Board Member Finster issued a change order allowing a temporary change in the point of diversion and point of rediversion, subject to several specified conditions.

7. The Board concurs with the findings of Board Member Finster as specified in the order dated September 19, 1985.

2. The petition for a temporary urgency change requests that the diversion and rediversion at the Banks Pumping Plant be authorized from September 1, 1985 or when approved by the Board to October 15, 1985 with the total amount diverted or rediverted not to exceed 12,800 acre-feet of water into storage in San Luis Reservoir.

Temporary Urgency Need

The urgent need to utilize facilities of the State Water Project is due to the fact that this year has been classified as a dry year under the Four-Basins Index. This fact along with certain unavoidable operational outages on the Federal facilities for transporting water to San Luis Reservoir, has resulted in the Federal portion of San Luis Reservoir storage to be the lowest since the 1977 drought and the 1981 slide on the San Luis Reservoir Dam. Normal Central Valley Project procedure is to maintain a minimum storage of 250,000 acre-feet on September 1 in the Federal portion of San Luis Reservoir storage. Use of the State's Banks Pumping Plant will allow the Federal project to place 12,800 acre-feet more water into storage in the San Luis Reservoir to aid in meeting this objective and the normal demands in the coming water year.

California Environmental Quality Act

4. An environmental analysis has shown that the project consists of the operation of an existing public facility involving negligible or no expansion of use beyond that previously existing and that no significant environmental impacts will result.

NOW, THEREFORE, IT IS ORDERED that issuance of the order allowing a temporary urgency change in point of diversion and point of rediversion for the permits listed in Table 1 except Permits 12727 and 11973 which are for direct diversion of water only, is validated subject to the terms and conditions specified in the order.

CERTIFICATION

The undersigned, Executive Director of the State Water Resources Control Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on October 17, 1985.

Aye: Raymond V. Stone
Darlene E. Ruiz
E. H. Finster
Eliseo M. Samaniego

No: None

Absent: None

Abstain: None

Raymond Walsh

Raymond Walsh
Interim Executive Director

P12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Temporary Urgency Change Order Regarding Permit 12721 (Application 5626) and 12 other Permits U. S. BUREAU OF RECLAMATION, Permittee	ORDER: 85-2 SOURCE: Various sources COUNTIES: Alameda, Sacramento, Shasta, Trinity

ORDER VALIDATING ISSUANCE OF
TEMPORARY URGENCY CHANGE ORDER

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a temporary urgency change in point of diversion and point of rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the Board having consulted with the Department of Water Resources and the Department of Fish and Game; former Board Vice Chairman Noteware having concluded from available information that the Bureau qualifies for a temporary urgency change and having issued a temporary urgency change order, subject to review and validation by the Board as provided by Water Code Section 1435; the Board finds as follows:

Substance of the Proposed Change

1. On February 21, 1985, the Bureau filed a petition for a temporary urgency change in the point of diversion and point of rediversion under the 13 water right permits specified in Table I below:

TABLE I
WATER RIGHT PERMITS COVERED BY
THE PETITION FOR TEMPORARY URGENCY CHANGE

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860
16767	11971
17374	11973
17376	12364
21542	15149

The petition requests that, in addition to the points of diversion and rediversion specified in the permits, the permittee be allowed to divert or redivert water temporarily under said permits at the California Aqueduct Intake for the Banks Pumping Plant at the following location:

> California Coordinates, Zone 3, N486,035; E 1,695,057; within NW 1/4 of SE 1/4 of projected Section 20, T1S, R4E, MDB&M.

2. The petition for a temporary urgency change requests that the diversion and rediversion at the Banks Pumping Plant be authorized from March 1, 1985 to June 30, 1985 with the total amount diverted or rediverted not to exceed 195,000 acre-feet.

Temporary Urgency Need

3. The urgent need to utilize facilities of the State Water Project arises from the curtailment of pumping through the Central Valley Project and State Water Project Delta facilities proposed by the California Department of Fish and Game for striped bass tests. The Bureau must replace this capacity to enable the Federal portion of San Luis Reservoir to be filled for the 1985 irrigation season. Replacement of this lost pumping capacity with capacity at the Banks Pumping Plant is proposed. The increased period of replacement diversion over that of the pumping curtailment is requested so that the capacity available at the Banks Pumping Plant may be more economically utilized and that there may be a margin of safety if that plant should be down for any length of time during the period. When available, off-peak energy periods will be used. The quantity to be diverted will not exceed the quantity that would have been diverted absent the striped bass test. We find that emergency conditions exist within the meaning of Water Code Section 1435(c) which require immediate action by the petitioner to protect the public welfare.

California Environmental Quality Act

4. The State Water Resources Control Board staff has prepared a draft Notice of Exemption specifying under Class 6 (14 Cal. Admin. Code, Sec. 15306) the reason why the above proposed action qualifies for an exemption in accordance with the California Environmental Quality Agency (CEQA).

Action by former Board Vice Chairman Noteware

5. In accordance with the authorization of Water Code Section 1435, the Board has adopted Resolution 84-2 delegating authority to an individual Board member to approve temporary changes on projects where no detrimental effects are indicated. Water Section 1435(b) requires the Board, at its next regular meeting, to review and validate any change order issued by an employee.

6. In accordance with the delegation of authority in Resolution 84-2, former Board Vice Chairman Noteware issued a change order allowing a temporary change in the point of diversion and point of rediversion, subject to several specified conditions.

7. The Board concurs with the findings of former Vice Chairman Noteware as specified in the order dated March 1, 1985.

8. South Delta Water Agency alleges that diversion under this temporary urgency change may tend to reduce channel water levels to the injury of southern Delta water users. The Board does not herein find a relationship between water levels in southern Delta water channels and export pumping rates under this temporary urgency change. However, because of South Delta Water Agency's objection, the Board finds that during periods of unusually low water levels in channels of the southern Delta, no diversion under this temporary

urgency change should be made. This order is conditioned on compliance by the permittee with a term addressing this concern.

NOW, THEREFORE, IT IS ORDERED that issuance of the order allowing a temporary urgency change in point of diversion and point of rediversion for the permits listed in Table 1 is validated subject to the terms and conditions specified in the order, and the following additional condition:

> No diversion shall be made under this temporary urgency change during periods of unusually low water levels in channels of the southern Delta. These periods are expected to be March 15-17, March 30-April 1, April 11-13, April 25-29, May 10-12, May 24-27, and June 7-9, 1985. No diversion shall be made during these periods unless approved by the Chief of the Division of Water Rights. Should unusually low channel water levels occur at other times, the Chief of the Division of Water Rights may require the permittee to cease diversion under the temporary urgency change at such times.

Dated: MAR 15 1985

CERTIFICATION

The undersigned, Executive Director of the State Water Resources Control Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on March 15, 1985.

M A Campos

Michael A. Campos
Executive Director

PERMIT NO. 12722

APPLICATION NO. 9363

SEE DECISION 1485 ISSUED 8-16-78
& Order 78-17, 10-17-78

P 12722

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

In the Matter of Temporary Urgency Change Order Regarding Permit 12721 (Application 5626) and 12 Other Permits U. S. BUREAU OF RECLAMATION, Permittee	ORDER: 83- 17 SOURCE: Various sources COUNTIES: Alameda, Sacramento, Shasta, Trinity

ORDER VALIDATING ISSUANCE OF
TEMPORARY URGENCY CHANGE ORDER

BY THE BOARD:

The U. S. Bureau of Reclamation (Bureau) having filed a petition for a temporary urgency change in point of diversion and point of rediversion pursuant to Chapter 6.6 (commencing with Section 1435), Part 2, Division 2 of the Water Code; the Board having consulted with the Department of Water Resources and the Department of Fish and Game; the Chief of the Division of Water Rights having concluded from available information that the Bureau qualifies for a temporary urgency change and having issued a temporary urgency change order, subject to review and validation by the Board as provided by Water Code Section 1435; the Board finds as follows:

Substance of the Proposed Change

1. On October 18, 1983, the Bureau filed a petition for a temporary urgency change in the point of diversion and point of rediversion under the 13 water right permits specified in Table I below:

TABLE I
WATER RIGHT PERMITS COVERED BY
THE PETITION FOR TEMPORARY URGENCY CHANGE

Application	Permit
5626	12721
5628	11967
9363	12722
9364	12723
13370	11315
13371	11316
15374	11968
15375	11969
15764	12860
16767	11971
17374	11972
17376	12364
21542	15149

The petition requests that, in addition to the points of diversion and rediversion specified in the permits, the permittee be allowed to divert or redivert water temporarily under said permits at the California Aqueduct Intake for the Banks Pumping Plant at the following location:

California Coordinates, Zone 3, N486,035; E 1,695,057;

within NW¼ of SE¼ of projected Section 20, T1S, R4E, MDB&M.

2. The petition for a temporary urgency change requests that the diversion and rediversion at the Banks Pumping Plant be authorized from November 1, 1983 to February 29, 1984.

Temporary Urgency Need

3. The Bureau's facilities at the O'Neill Forebay assist in delivering water to an extensive service area in the San Joaquin Valley. The water surface elevation in O'Neill Forebay Reservoir will be lowered to allow for emergency rehabilitation to the upstream face of the dam. As a result, the Bureau may not be able to deliver the full quantity necessary to meet delivery requirements through its regular diversion facilities. For that reason it requested a temporary urgency change to divert and redivert at the Department of Water Resources Banks Pumping Plant. We find that emergency conditions exist within the meaning of Water Code Section 1435(c) which require immediate action by the petitioner to protect the public welfare.

Instream Uses

4. The California Department of Fish and Game has informed Board staff that the proposed temporary urgency change would not adversely affect fish and wildlife. No stream alteration will take place since the diversion facilities are already in place. The maximum combined rate of diversion and rediversion under the temporary urgency change from both the Banks Pumping Plant and the Tracy Pumping Plant shall not exceed the 4,600 cubic feet per second normally allowed at the Tracy Pumping Plant. Accordingly, we find that the temporary change of diversion and rediversion will not have an unreasonable effect on fish, wildlife or other instream beneficial uses and that it may be made without injury to any lawful user of water.

California Environmental Quality Act

5. This Board Order authorizes a temporary urgency change in the point of diversion and rediversion ending February 29, 1984. Such activity is exempt from the provisions of the California Environmental Quality Act in accordance with Public Resources Code Section 21080(b)(4). (Actions necessary to prevent or mitigate an emergency.)

Action by the Chief of the Division of Water Rights

6. In accordance with the authorization of Water Code Section 1435, the Board has adopted Resolution No. 83-80 delegating authority to the Chief of the Division of Water Rights to approve temporary changes on projects where no detrimental effects are indicated. Water Section 1435(b) requires the Board, at its next regular meeting, to review and validate any change order issued by an employee.

7. The Chief of the Division of Water Rights, Raymond Walsh, has reviewed the available evidence relating to the petition. In accordance with the delegation of authority in Resolution No. 83-80, Mr. Walsh issued a change order on October 31, 1983 allowing a temporary change in the point of diversion and point of rediversion, subject to several specified conditions.

8. The Board concurs with the findings of Mr. Walsh as specified in his order of October 31, 1983.

NOW, THEREFORE, IT IS ORDERED that issuance of the order allowing a temporary urgency change in point of diversion and point of rediversion for the permits listed in Table I is validated subject to the terms and conditions specified in the order.

Dated: November 17, 1983

Carole A. Onorato, Chairwoman

Warren D. Noteware, Vice Chairman

F. K. Aljibury, Member

Kenneth W. Willis, Member

P12722

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF WATER RIGHTS
ORDER ALLOWING TEMPORARY URGENCY CHANGE
IN POINT OF DIVERSION AND POINT OF REDIVERSION

PERMITS 12721, 11967, 12722, 12723, 11315, 11316, 11968, 11969, 12860, 11971, 11972, 12364 AND 15149, (APPLICATIONS 5626, 5628, 9363, 9364, 13370, 13371, 15374, 15375, 15764, 16767, 17374, 17376 AND 21542) United States Bureau of Reclamation, Permittee

WHEREAS:

1. The United States Bureau of Reclamation has filed a petition for a temporary urgency change in the points of diversion and rediversion authorized in the above permits.

2. In accordance with the authorization of Water Code Section 1435, the Board has adopted Resolution No. 83-80 delegating authority to the Chief of the Division of Water Rights to approve temporary changes where no detrimental effects are indicated.

3. The Chief of the Division of Water Rights has found that good cause for the temporary change requested has been shown.

4. The Department of Fish and Game has informed Board staff that the proposed temporary change would not adversely affect fish and wildlife.

5. The Chief of the Division of Water Rights has determined that the temporary urgency change requested in the petition does not constitute the initiation of a new right nor operate to the injury of any other lawful user of water and does not unreasonably affect fish, wildlife or other instream beneficial uses.

6. The Chief of the Division of Water Rights has determined that emergency conditions exist requiring immediate action to protect the public welfare.

NOW, THEREFORE, IT IS ORDERED THAT:

1. In addition to the points of diversion and rediversion specified in the permits listed above, the permittee may temporarily divert or redivert water under said permits at the California Aqueduct Intake for the Banks Pumping Plant at the following location:

   California Coordinates, Zone 3, N 486,035; E 1,695,057; within NW 1/4 of SE 1/4 of projected Section 20, T1S, R4E, MDB&M.

STATE OF CALIFORNIA
STATE WATER RIGHTS BOARD

In the Matter of Applications 5625, 5626, 9363, 9364, 9365, 9366, 9367, 9368, 10588, and 15764,

UNITED STATES OF AMERICA, BUREAU OF RECLAMATION,

Applicant

SACRAMENTO RIVER AND DELTA WATER ASSOCIATION, ET AL.,

Protestants

Sources: Sacramento River, Rock Slough, Old River, and Channels of the Sacramento-San Joaquin Delta

ADOPTED DEC 2 3 1965

ORDER EXTENDING TIME IN WHICH
TO FORMULATE TERMS AND CONDITIONS
RELATIVE TO SALINITY CONTROL
PURSUANT TO DECISIONS D 990 AND D 1020

Condition No. 25 of the Board's order under Decision D 990, made on February 9, 1961, and condition No. 9 of the Board's order under Decision D 1020, made on June 30, 1961, reserved continuing jurisdiction over permits issued pursuant to Applications 5625, 5626, 9363, 9364, 9365, 9366, 9367, 9368, 10588, and 15764 until March 1, 1964, or such additional time as may be prescribed by the Board, for the purpose of formulating terms and conditions relative to salinity control in the Sacramento-San Joaquin Delta.

The initial period of three years was considered reasonable in order to allow the United States, the State of California, and the water users in the Delta an opportunity to work out their problems by mutual agreement; or, failing to reach agreement, to provide the Board with information upon which to make such further order as may be necessary and proper relating to salinity control in the Delta.

The Board finds that no emergency has arisen in the interim requiring imposition of specific permit terms; that additional time for the parties to resolve their problems would not cause injury to any lawful user of water; and that there has been no material change in project operations which would alter the conditions under which salinity incursion is now controlled.

Upon such findings, the Board concludes that the reservation of continuing jurisdiction should be extended.

IT IS HEREBY ORDERED that the State Water Rights Board reserve continuing jurisdiction over permits issued pursuant to Applications 5625, 5626, 9363, 9364, 9365, 9366, 9367, 9368, 10588, and 15764 until further order of the Board, for the purpose of formulating terms and conditions relative to salinity control in the Sacramento-San Joaquin Delta.

Adopted as the order of the State Water Rights Board at a meeting duly called and held in Sacramento, California, on the day of , 19

/s/ Kent Silverthorne
Kent Silverthorne, Chairman

/s/ Ralph J. McGill
Ralph J. McGill, Member

/s/ W. A. Alexander
W. A. Alexander, Member

STATE OF CALIFORNIA—STATE WATER RIGHTS BOARD

Application No. 9363 Filed August 2, 1938, at 8:38 A. M.
(Applicant must not fill in the above blanks)

APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

AMENDED APPLICATION RECEIVED 8-14-52

The United States of America, assignee of the above-numbered application for a permit to appropriate the following described unappropriated waters to be used in furtherance of Central Valley Project, California, which project is under the supervision of the United States Bureau of Reclamation, shows:

For the purpose of this application, the post office address of the applicant is United States Bureau of Reclamation, P. O. Box 2511, Sacramento 11, California.

Source, Amount, Use and Location of Diversion Works

1. The source of the proposed appropriation is Sacramento River OVER
(Give name of stream, lake, etc., if named; if unnamed state nature of source and that it is unnamed)
located in Shasta to Contra Costa County, tributary to Suisun Bay

2. The amount of water which applicant desires to appropriate under this application is as follows:

(a) For diversion to be directly applied to beneficial use 1000 (see supplement) cubic feet per second, to be diverted from January 1 to December 31, inclusive of each year.
(1 cubic foot per second equals 40 statute miner's inches or 646,317 gallons per day; Beginning date; Closing date)

(b) For diversion to be stored and later applied to beneficial use 310,000(see supplement acre-feet per annum, to be collected between October 1 and July 1 of each season.
(1 acre-foot equals 325,851 gallons; Beginning date; Closing date)

NOTE.—Answer (a) or (b) or both (a) and (b) as may be necessary. If amount under (a) is less than .025 cubic foot per second, state in gallons per day. Neither the amount nor the season may be increased after application is filed. If underground storage is proposed a special supplemental form will be supplied by the State Water Rights Board upon request.

3. The use to which the water is to be applied is municipal and industrial (see supplement purposes.
(Domestic, irrigation, power, municipal, mining, industrial, recreational)

4. The ~~point~~ points of diversion ~~is~~ are to be located along Sacramento River from Shasta Dam to the Sacramento-San Joaquin delta and on the channels of said delta.
(State bearing and distance or coordinate distances from section or quarter section corner)
being within the (see supplement)
(State 40-acre subdivision of public land survey or projection thereof)
of Section ____, T. ____, R. ____, ____ B. & M., in the County of ____.

5. The main conduit terminates in (see supplement of Sec. ____, T. ____, R. ____, ____ B. & M.
(State 40-acre subdivision of U. S. Government survey or projection thereof)

Description of Diversion Works

NOTE.—An application cannot be approved for an amount grossly in excess of the estimated capacity of the diversion works.

6. Intake or Headworks (fill only those blanks which apply) (see supplement)

(a) Diversion will be made by pumping from ____
(Sump, offset well, unobstructed channel, etc.)

(b) Diversion will be by gravity, the diverting dam being ____ feet in height (stream bed to level of overflow); ____ feet long on top; and constructed of ____
(Concrete, earth, brush, etc.)

(c) The Shasta storage dam will be 487 feet in height (stream bed to overflow level); 3,460 feet long on top; have a freeboard of 12.5 feet, and be constructed of concrete
(Concrete, earth, etc.)
Keswick Dam (see supplement)

7. Storage Reservoir Shasta Reservoir
(Name)

The storage reservoir will flood lands in T33N to T36N, R1W, to R5W (see supplement)
(Indicate section or sections, also 40-acre subdivisions unless shown upon map)

It will have a surface area of 29,500 acres, and a capacity of 4,493,000 acre-feet.

In case of insufficient space for answers in form, attach extra sheets at top of page 3 and cross reference.

Keswick re-regulating reservoir (see supplement)

FORM 1

15. **Municipal Use.** This application is made for the purpose of serving (See supplement)
Name of cities, town or towns. Urban areas only.
having a present population of

The estimated average daily consumption during the month of maximum use at the end of each five-year period until the full amount applied for is put to beneficial use is as follows:

16. **Mining Use.** The name of the mining property to be served is
Name of claim
and the nature of the mines is
Gold placer, quartz, etc.

The method of utilizing the water is

It is estimated that the ultimate water requirement for this project will be
Cubic feet per second, gallons per minute. State basis of estimate

The water will / will not be polluted by chemicals or otherwise
Explain nature of pollution, if any

and it will / will not be returned to in of
Name stream State 40-acre subdivision

Sec. , T. , R. , B. & M.

17. **Other Uses.** The nature of the use proposed is (see supplement)
Industrial, recreational, domestic, stockwatering, fish culture, etc.

State basis of determination of amount needed. (see supplement)
Number of persons, residences, area of domestic lawns and gardens, number and kind of stock, type industrial use, and unit requirements.

General

18. Are the maps as required by the Rules and Regulations filed with Application? Yes
Yes or No
If not, state specifically the time required for filing same

19. Does the applicant own the land at the proposed point of diversion? most of it
Yes or No
If not, give name and address of owner and state what steps have been taken to secure right of access thereto agreements will be made by owners.

20. What is the name of the post office most used by those living near the proposed point of diversion?
Redding, Red Bluff, Walnut Grove, Antioch, and Tracy

21. What are the names and addresses of claimants of water from the source of supply below the proposed point of diversion? All existing diverters along Sacramento River below Shasta Dam and in the Delta. For names, see State Water Supervision Report on Sacramento and San Joaquin Rivers.

[SIGNATURE OF APPLICANT] /s/ Richard L. Boke
Regional Director

feet; depth of water _____ feet; length _____ feet; grade _____ feet per 1,000 feet; materials of construction _____
Earth, rock, timber, etc.

(b) Pipe line: Diameter _____ inches; length _____ feet; grade _____ feet per 1,000 feet; total fall/lift from intake to outlet _____ feet; kind _____
Riveted steel, concrete, wood-stave, etc.

NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.

9. The estimated capacity of the diversion conduit or pumping plant proposed is (see supplement)
State cubic feet per second or gallons per minute

The estimated cost of the diversion works proposed is $254,000,000.
Give only cost of intake, or headworks, pumps, storage reservoirs and main conduits described herein

Completion Schedule

10. Construction work will begin on or before under construction (see supplement)

Construction work will be completed on or before 1970 (see supplement)

The water will be completely applied to the proposed use on or before the year 2000.

Description of Proposed Use

11. Place of Use. Within the potential service area delineated on the accompanying map
State 40-acre subdivisions of the public land survey. If area is unsurveyed indicate the location as if lines of the public land

No. 602-212-166 (see supplement)
survey were projected. In the case of irrigation use state the number of acres to be irrigated in each 40-acre tract, if space permits. If space does not permit listing of all 40-acre tracts, describe area in a general way and show detail upon map.

Do(es) applicant(s) own the land whereon use of water will be made? No (Yes or No) Jointly? _____ (Yes or No)

Contracts will be negotiated with representatives of owners
If applicant does not own land whereon use of water will be made, give name and address of owner and state what arrangements have been made with him.

12. Other Rights. Describe all rights except those on file with the State Water Rights Board under which water is served to the above named lands.

Nature of Right (riparian, appropriative, purchased water, etc.)	Year of First Use	Use made in recent years including amount if known	Season of Use	Source of Other Supply
1.				
2.				
3.				
4.				

Attach supplement at top of page 3 if necessary.

13. Irrigation Use. The area to be irrigated is _____ acres.
State net acreage to be irrigated

The segregation of acreage as to crops is as follows: Rice _____ acres; alfalfa _____ acres; orchard _____ acres; general crops _____ acres; pasture _____ acres.

NOTE.—Care should be taken that the various statements as to acreage are consistent with each other, with the statement in Paragraph 11, and with the map.

The irrigation season will begin about _____ (Beginning date) and end about _____ (Closing date)

14. Power Use. The total fall to be utilized is _____ feet.
Difference between nozzle or draft tube water level and first free water surface above

The maximum amount of water to be used through the penstock is _____ cubic feet per second.

The maximum theoretical horsepower capable of being generated by the works is _____ horsepower.
Second feet × fall ÷ 8.8

The use to which the power is to be applied is _____
For distribution and sale or private use, etc.

The nature of the works by means of which power is to be developed is _____
Turbine, Pelton wheel, etc.

The size of the nozzle to be used is _____ inches.

The water will / will not be returned to _____ (Name stream) in _____ (State 40-acre subdivision) of

Sec. _____, T. _____, R. _____, _____ B. & M.

PERMIT No. 12122

This is to certify that the application of which the foregoing is a true and correct copy has been considered and approved by the State Water Rights Board SUBJECT TO VESTED RIGHTS and the following limitations and conditions:

This permit is issued and permittee takes it subject to the following provisions of the Water Code:

Section 1390. A permit shall be effective for such time as the water actually appropriated under it is used for a useful and beneficial purpose in conformity with this division (of the Water Code), but no longer.

Section 1391. Every permit shall include the enumeration of conditions therein which in substance shall include all of the provisions of this article and the statement that any appropriator of water to whom a permit is issued takes it subject to the conditions therein expressed.

Section 1392. Every permittee, if he accepts a permit, does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any permit granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any permittee or by the holder of any rights granted or acquired under the provisions of this division (of the Water Code) or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any permittee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

Dated: APR 12 1961

STATE WATER RIGHTS BOARD

L. K. Hill

L. K. Hill
Executive Officer

Paragraph 2. AMOUNT OF WATER:

The direct diversion of 1,000 c.f.s. applied for herein will make use of any available direct diversions of water applied for in Applications 5625 and 9365 for power purposes and will be in addition to the direct diversion of Sacramento River water applied for in Applications 5626 and 9364 for irrigation purposes.

This application covers the use of the same storage facilities as the applications referred to above.

Keswick Reservoir will re-regulate releases from Shasta Dam.

Paragraph 3. USE:

The water applied for in this application will be used to supply the municipal and industrial needs along the project canals specified in these applications, and to take care of the needs of other water users within the place of use who may enter contracts with the United States for water service.

Paragraph 4. POINT OF DIVERSION:

The points of diversion for the water applied for herein are at Shasta Dam and at downstream points for existing and future facilities of the Central Valley Project, including non-project facilities diverting project water. The points of diversion and/or re-diversion, include the following:

Shasta Dam: Sta. 0+00 on axis of Shasta Dam is S39° 58' 13" W, 1626.41 feet from E¼ Cor. Sec. 15, T. 33 N., R. 5 W., M.D.B. & M., being within the NE¼ of SE¼ of said Sec. 15, in Shasta County.

Keswick Dam: Sta. 5+00 on axis of Keswick Dam is S62° 38' 15"E, 1567.15 feet from the W¼ Cor. Sec. 21, T. 32 N., R. 5 W., M.D.B. & M., being within the NW¼ of SW¼ of said Sec. 21, in Shasta County.

Tehama Canal: The intake will be located N. 31° 15' W, 2530 feet from E¼ Cor. Sec. 33, T. 27 N., R. 3 W., M.D.B. & M., being within the NE¼ of NE¼ of said Sec. 33, in Tehama County.

Tehama-Colusa Canal: The intake will be located N. 31° 15' W, 2530 feet from E¼ Cor. Sec. 33, T. 27 N., R. 3 W., M.D.B. & M., being within the NE¼ of NE¼ of said Sec. 33 in Tehama County.

Chico Canal: The intake will be located N 51° 20' E, 1878 feet from W¼ Cor. Sec. 1, T. 23 N., R. 2 W., M.D.B. & M., being within the SE¼ of NW¼ of said Sec. 1, in Butte County.

Delta Cross Channel: Initial diversion by this channel from Sacramento River is at Walnut Grove; intake structure is located at Delta Cross Channel Station 1+69.2, and is approximately S 4° 17' W, 999.0± feet from NW Corner of Swamp and Overflow Land Survey 763 in T. 5 N., R. 4 E., M.D.B. & M., in Sacramento County.

Delta-Mendota Canal: Water from the Delta Cross Channel is diverted at an intake point located on the Old River. The pilot intake headworks, located at Canal Station L 6+90, is S 76° 39' 23" E, 2674.53 feet from W¼ Cor. Sec. 29, T. 1 S., R. 4 E., M.D.B. & M., being within the NE¼ of SW¼ of said Sec. 29, in Alameda County.

The center line of pump units of Tracy pumping plant at Canal Station L 133+75 is N 26° 54' 47" E, 800.63 feet from SW Cor. Sec. 31, T. 1 S., R. 4 E., M.D.B. & M., being within the SW¼ of SW¼ of said Sec. 31, in Alameda County.

The terminus of the pump discharge conduits and beginning of the concrete-lined gravity section of the Delta-Mendota Canal at Canal Station L 185+50, is S 37° 38' 22" W, 1988.26 feet from E¼ Cor. Sec. 1, T. 2 S., R. 3 E., M.D.B. & M., being within the SE¼ of SE¼ of said Sec. 1, in Alameda County.

Contra Costa Canal: This canal diverts water from Rock Slough, a tidal channel of the Sacramento and San Joaquin Rivers. The intake point is N 89° 52' W, 8.9 feet from E¼ Cor. Sec. 33, T. 2 N., R. 3 E., M.D.B. & M., being within the SE¼ of NE¼ of said Section 33 in Contra Costa County. Canal Station 0+00 is located S 44° 35' E 105.5 feet from the intake point.

Vallejo Pumping Plant for Vallejo Conduit: The intake is to be located at a point on Maine Prairie Slough; S. 28° 0' 40" E., 1,157.77 feet from the NW corner of projected Section 10, T. 5 N., R. 2 E., M.D.B. & M., being within the NW¼ of NW¼ of said Section 10 in Solano County (Vallejo Pumping Plant and Conduit are under construction by the City of Vallejo.)

Paragraph 5. THE MAIN CONDUITS TERMINATE IN:

Tehama Canal: NE¼ of NW¼, Sec. 23, T. 23 N., R. 3 W., M.D.B. & M.

Tehama-Colusa Canal: SE¼ of NW¼, Sec. 34, T. 12 N., R. 1 W., M.D.B. & M.

Chico Canal: NE¼ of SW¼, Sec. 3, T. 21 N., R. 1 E., M.D.B. & M.

Delta Cross Channel: Old River at intake of [illegible] $NE\frac{1}{4}$ of $SW\frac{1}{4}$, Sec. 29, T. 1 S., R. 4 E., M.D.B. & M.

Delta-Mendota Canal: Mendota Pool located in S[illegible] of $SE\frac{1}{4}$, Sec. 19, T. 13 S., R. 15 E., M.D.B. & M.

Contra Costa Canal: Martinez Reservoir near City of Martinez, $NE\frac{1}{4}$ of $NW\frac{1}{4}$, projected Sec. 20, T. 2 N., R. 2 W., M.D.B. & M.

The Vallejo Conduit: Fleming Hill Reservoir near City of Vallejo in $SW\frac{1}{4}$ of $NW\frac{1}{4}$, Section 6, T. 3 N., R. 3 W., M.D.B. & M.

Paragraph 6. INTAKE OR HEADWORKS:

Shasta Dam: Features of Shasta Dam are shown on drawing No. 214-212-41 accompanying Application 5626.

Keswick Dam: Dam is 118 feet in height (stream bed to level of overflow); 1,046 feet long on top; has a freeboard of 8.5 feet; and is constructed of concrete. Features of Keswick Dam are shown on drawing No. 214-212-40 accompanying Application 10588.

Tehama and Tehama-Colusa Canals: Diversion will be by gravity with 19' high concrete diversion dam, 800 feet long. Tehama Canal will have a 500 c.f.s. pumping plant located 4,500 feet down an intake canal from Sacramento River.

Chico Canal: 310 c.f.s. pumping plant. No diversion dam.

Delta Cross Channel: At present, water is diverted from the Sacramento River into this channel by means of gravity without a diversion dam. The water passes into the Delta Cross Channel through a gate-controlled works. In the operation of the Central Valley Project, it is intended to divert about 9,500 c.f.s. of water from the Sacramento River into the Delta channels of the San Joaquin River. Part of this is diverted through natural channels such as Georgiana Slough. An initial cut is being constructed to convey 4,500 c.f.s. into the Delta Cross channel. The means of diverting the water required in excess of that which can be conveyed by this cut and existing channels, will be determined on the basis of data collected during the first years of operation of the Delta Cross Channel, and will be presented at a later date.

Delta-Mendota Canal: Water is diverted from the Old River through fish-protective headworks and the intake canal to Tracy Pumping Plant where 4,600 c.f.s. of water will be lifted approximately 200 feet to the gravity section of the Delta-Mendota Canal.

Contra Costa Canal: Water from the Old River through Rock Slough is diverted at the canal intake by gravity. There are four pumping plants along the canal located at Canal Stations 209+25, 248+90, 308+70, and 372+20. The first three plants each have an initial capacity of 210 c.f.s. with an ultimate planned capacity of 350 c.f.s. The plant at Station 372+20 has an initial capacity of 190 c.f.s. and an ultimate capacity estimated at 330 c.f.s.

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Vallejo Pumping Plant: Water is to be diverted from Maine Prairie Slough, tributary of Cache Slough, Sacramento River, by two pumps with a combined capacity of 31.5 c.f.s. No diversion dam.

Paragraph 7. STORAGE RESERVOIR:

Shasta Reservoir: The lands to be flooded by Shasta Reservoir are those lying below elevation 1065 as shown on the U.S. Geological Survey quadrangle contour maps and map No. 214-212-44, entitled "Shasta Dam and Reservoir area," which accompanied Applications 5625, 5626, 9364, and 9365.

Keswick Reservoir (regulatory): Keswick Reservoir will flood lands in Sections 4, 5, 8, 9, 16, 17, 20, and 21, T. 32 N., R. 5 W.; and Sections 15, 16, 20, 21, 28, 29, and 32, T. 33 N., R. 5 W., as indicated on the reservoir topography maps, Nos. 214-212-42 to 214-212-45, inclusive, which accompanied Application 10588.

Keswick Reservoir will have a surface area of 640 acres, and a capacity of 23,800 acre-feet.

Paragraph 8. CONDUIT SYSTEMS INCLUDE:

Tehama Canal: The proposed diversion works will have an intake channel 4,500 feet long, a pumping plant of 500 c.f.s., lifting the water 55 feet in elevation with an 8.5-foot diameter concrete pipeline, 5,400 feet long. The water will then flow by gravity in a canal 151,000 feet long, having a top width of 37 feet, a bottom width of 10 feet, a depth of 8.9 feet, and a slope of 0.000,06 feet per foot at the head of the canal, and a top width of 8 feet, bottom width of 3 feet, depth of 1.7 feet, and slope of 0.0008 feet in the last section of the canal.

Tehama-Colusa Canal: The first 4.7 miles of the canal will carry 8,000 c.f.s., of which 6,000 c.f.s. will be returned to the river through the proposed Sacramento Valley Canals power plant. The remaining 2,000 c.f.s. will be carried in the canal for irrigation uses. The canal dimensions for the 2,000 c.f.s. capacity are 56 feet top width, 24 feet bottom width, and 10.8 feet deep. The canal will be 121 miles long with the last reach having a top width of 28.2 feet, bottom width of 12 feet, depth of 5.4 feet, and carrying capacity of 175 c.f.s. The slope of the canal varies from 0.000,05 to 0.000,25 feet per foot.

Chico Canal: The main canal will be 19 miles long and in the upper reach will have a capacity of 310 c.f.s., a top width of 34 feet, bottom width of 16 feet, a depth of 5.93 feet, and a slope of 0.000,1 feet per foot.

Delta Cross Channel: Width on top (at water line), 426 feet; width at bottom, 210 feet; depth of water, 26 feet; length, 50 miles (cross section varies from above dimensions to those of dredged and natural channels of sloughs and rivers along route.) Grade of invert is

Materials of construction--earth.

Delta-Mendota Canal: The intake canal between Old River and Tracy Pumping Plant is approximately 2.5 miles in length and has a width of 185.6 feet at water surface, a bottom width of 97.7 feet, and a water depth of 14.3 feet. At the pumping plant, 4,600 c.f.s. of water will be lifted approximately 200 feet by 6 electrically-driven pumps through three 15-foot diameter reinforced concrete conduits a distance of one mile and discharged into a gravity canal which extends in a southerly direction about 113 miles to the Mendota Pool on the San Joaquin River. The first 95 miles of the gravity canal are concrete-lined; the initial section is 97.68 feet wide at the water surface, 48.00 feet wide at the bottom, has a water depth of 16.56 feet, and has a capacity of 4,600 c.f.s. The last 18 miles of the gravity canal are earth-lined. The initial section has a top width of 131.5 feet, a bottom width of 62.0 feet, and a water depth of 13.9 feet. The canal grade is 0.05 feet per 1,000 feet.

Contra Costa Canal: Width on top (at water line), 25.43 feet; width at bottom, 7.0 feet; depth of water, 7.37 feet; length, 48.0 miles (canal cross-section dimensions decrease toward the end). Grade--0.125 feet per 1,000 feet. Materials of construction--concrete.

Vallejo Conduit: The Vallejo Conduit is a pressure system of pumping plants and pipe lines under construction by the City of Vallejo. It is expected that some of the water applied for in this application will be diverted through these facilities for the city's use.

The initial section of pipe line from the Vallejo Pumping Plant on Maine Prairie Slough to the inlet of Cordelia Reservoir is: Diameter, 36 inches; length, approximately 12 miles; hydraulic gradient, approximately 1.3 feet per 1,000 feet; friction head loss, 85 feet; materials of construction, concrete steel-cylinder. The last section of pipe line from Cordelia Reservoir to the Fleming Hill Reservoir is: Diameter, 27 inches; length, approximately 7 miles; hydraulic gradient, approximately 1.6 feet per 1,000 foot; friction head loss, 60 feet; materials of construction, concrete steel-cylinder.

The hydraulic gradient of the pipe line diminishes from elevation 207 at Maine Prairie Slough to elevation 122 at the inlet to Cordelia Reservoir where two pumps raise the gradient to elevation 445. The hydraulic gradient then diminishes to elevation 385 at Fleming Hill Reservoir.

Paragraph 9. ESTIMATED CAPACITY OF DIVERSION WORKS:

Tehama Canal: 500 c.f.s.

Tehama-Colusa Canal: (8,000 c.f.s.)
2,000 c.f.s. (see supplement to paragraph 8)

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Delta Cross Channel: 9,500 c.f.s. (see supplement to paragraph 6)

Delta-Mendota Canal: 4,600 c.f.s.

Contra Costa Canal: 350 c.f.s. (see supplement to paragraph 6)

Vallejo Conduit: 31.5 c.f.s.

Paragraph 10. CONSTRUCTION WORK WILL BEGIN:

Shasta Dam: Completed

Keswick Dam: Completed

Tehama, Tehama-Colusa, and Chico Canals: 1954

Delta Cross Channel: Under construction

Delta-Mendota Canal: Under construction

Contra Costa Canal: Under construction

Vallejo Conduit: Under construction (by City of Vallejo)

Construction work will be completed on or before:

Shasta Dam: Completed 1950

Keswick Dam: Completed 1950

Tehama, Tehama-Colusa, and Chico Canals: 1970

Delta Cross Channel: 1956

Delta-Mendota Canal: 1954

Contra Costa Canal: 1956

Vallejo Conduit: 1955

Paragraph 11. PLACE OF USE:

The place of use will be within the boundaries of the potential service area shown on map No. 602-212-166, accompanying this application. The water will be used within the service areas of municipalities, districts, water companies, corporations, and other legal entities, either as a primary or supplemental supply, provided that the delivery of the water is conditioned

upon the execution of valid contracts, for such deliveries, with the United States of America, or other authorization which may be made or given by authority of and pursuant to law.

Paragraphs 15 and 17. MUNICIPAL AND INDUSTRIAL USE:

Water demands for municipal and industrial uses will be supplied as required to cities, towns, and other municipalities or industries presently in existence, or as may be created within the place of use. Some municipalities are or will be adequately served with water by appropriations under lawful rights acquired and used independently of the United States. Other municipalities are or will be partially so served, but will require a supplemental water supply which will be furnished through rights acquired by the United States.

Most of the water applied for will be used by municipalities located in the counties whose estimated population growth is tabulated below:

Estimated population by years (a)

County	1950(b)	1955	1960	1965	1970	1975	1980	1985	1990	1995	2000
	Thousands										
Shasta	36	40	43	47	50	53	56	59	62	66	69
Tehama	19	21	22	24	25	27	28	30	31	33	34
Butte	65	75	85	90	95	100	105	110	115	119	123
Glenn	15	17	18	19	21	25	28	31	33	36	39
Colusa	12	13	13	14	15	16	17	18	19	20	21
Sutter	26	30	34	38	42	46	50	54	57	61	65
Yolo	41	48	55	60	65	70	75	80	85	90	94
Sacramento	277	316	355	403	450	490	530	570	610	655	700
Solano	105	125	145	158	170	180	190	195	200	205	210
Contra Costa	299	340	380	430	480	530	580	625	670	715	760
San Joaquin	201	231	260	290	320	350	380	410	440	475	510
Stanislaus	127	154	180	200	220	240	260	280	300	320	340
Merced	70	85	100	110	120	130	140	150	160	170	180
Madera	37	44	50	55	60	65	70	75	80	85	90
Fresno	277	324	370	415	460	505	550	595	640	685	730
Total	1607	1863	2110	2353	2593	2827	3059	3282	3502	3735	3965

(a) From unpublished projections prepared by Julian C. Riley, California State Reconstruction and Reemployment Commission, 1947, adjusted by California State Department of Finance, May 23, 1952, on the basis of the 1950 U.S. Census.

(b) U.S. Census of April 1, 1950.

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Based upon maximum daily demand of 400 gallons per day per person, the increased water use between 1950 and 2000 for both municipal and industrial use will be about 950,000,000 gallons per day, or about 1,500 c.f.s. for the counties tabulated. Considering that additional requirements of counties lying partially within the service area, but not tabulated, will be more than offset by sources of supply other than under this application, it is estimated that 1,000 c.f.s. of the municipal and industrial demand within the service area will be met under this application with the predicted rate of utilization tabulated below. Based on a maximum monthly mean rate of diversion of 350 gallons per day per person, the estimated use is also tabulated below:

Year	Estimated maximum daily use		Estimated maximum monthly mean use	
	Million g.p.d.	C.f.s.	Million g.p.d.	C.f.s.
1955	129	200	113	175
1960	226	350	198	306
1965	291	450	254	394
1970	388	600	339	525
1975	452	700	396	612
1980	485	750	424	655
1985	517	800	452	700
1990	549	850	480	743
1995	614	950	536	831
2000	646	1000	565	875

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1. *Note the terms and conditions of this permit.* Construction work must be prosecuted, and the water applied to the beneficial uses intended with due diligence. Annual reports of progress will be expected from you upon forms which will be furnished for the purpose. When the water has been fully applied to the beneficial uses intended the Water Code requires that you notify the State Water Rights Board thereof.

2. Neither this application nor the permit is a water right, but *if the terms and conditions of the permit are observed a water right can be obtained through beneficial use of the water*—the extent of the right to be determined by a field inspection which will be made by a representative of the State Water Rights Board.

3. *No change in point of diversion, or place of use or character of use, can be made under this application and permit* without the approval of the State Water Rights Board.

4. *If the rights under this permit are assigned* immediate notice to that effect with the name and address of the new owner should be forwarded to the State Water Rights Board, Sacramento, California.

5. *Please advise immediately of any change of address.* Until otherwise advised communications will be sent to the address used in the letter transmitting this permit.

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1. The amount of water to be appropriated shall be limited to the amount which can be beneficially used and shall not exceed 1000 cubic feet per second by direct diversion to be diverted as follows: (a) from about September 1 of each year to about June 30 of the succeeding year at Shasta Dam, and (b) throughout the year from Sacramento River downstream from Shasta Dam and at points within the Sacramento-San Joaquin Delta, and 310,000 acre-feet per annum by storage to be collected from about October 1 of each year to about June 30 of the succeeding year.

2. The total amount of water to be appropriated by direct diversion and by storage under permits issued pursuant to Applications 5626, 9363, 9364, 9366, 9367 and 9368 shall not exceed 6,500,000 acre-feet per annum of which not in excess of 3,450,000 acre-feet per annum shall be by direct diversion. The maximum combined rates of direct diversion and rediversion of stored water shall not exceed 22,200 cubic feet per second.

3. The total amount of water to be appropriated by storage under permits issued pursuant to Applications 5625, 5626, 9363, 9364 and 9365 shall not exceed 4,493,000 acre-feet per annum.

4. No direct diversion or rediversion of stored water for beneficial use under this permit, other than through the conduits or canals hereinafter named in this paragraph, shall be made until a description of the location of each point of diversion and statement of the quantity of water to be diverted is filed with the State Water Rights Board:

(a) Bella Vista Conduit

(b) Corning Canal

(c) Tehama-Colusa Canal

(d) Chico Canal

(e) Yolo-Zamora Conduit

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(f) Contra Costa Canal

(g) Delta Mendota Canal

5. The amount of water which may be appropriated hereunder may in license be reduced if investigation warrants, and may be reduced at any time prior to license if the reservations contained in Paragraphs 12 and 13 of this permit are modified or set aside upon judicial review.

6. All rights and privileges under this permit, including method of diversion, method of use and quantity of water diverted are subject to the continuing authority of the State Water Rights Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use and unreasonable method of diversion of said water.

7. Construction work shall be completed on or before December 1, 1985.

8. Complete application of the water to the proposed use shall be made on or before December 1, 1990.

9. Progress reports shall be filed promptly by permittee on forms to be provided annually by the State Water Rights Board until license is issued.

10. This permit is subject to compliance with Water Code Section 10504.5(a).

11. In conformity with Water Code Section 10505, this permit shall be subject to any and all rights of any county in which the water sought to be appropriated originates to the extent that any such water may be necessary for the development of such county.

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12. Direct diversion and storage of water under this permit for use beyond the Sacramento-San Joaquin Delta* or outside the watershed of Sacramento River Basin** shall be subject to rights initiated by applications for use within said watershed and Delta regardless of the date of filing said applications.

13. The export of stored water under this permit outside the watershed of Sacramento River Basin or beyond the Sacramento-San Joaquin Delta shall be subject to the reasonable beneficial use of said stored water within said watershed and Delta, both present and prospective, provided, however, that agreements for the use of said stored water are entered into with the United States prior to March 1, 1964, by parties currently diverting water from Sacramento River and/or Sacramento-San Joaquin Delta and prior to March 1, 1971, by parties not currently using water from Sacramento River and/or Sacramento-San Joaquin Delta.

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14. Permittee shall bypass or release into the natural channel of the Sacramento River at Keswick Dam for the purpose of maintaining fish life such

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* For the purpose of this permit the Sacramento-San Joaquin Delta shall be that area defined in Water Code Section 12220.

** For the purpose of this permit the Sacramento River Basin shall be that portion of the State encompassed by a line beginning at the Sacramento-San Joaquin Delta at Collinsville thence northeasterly to the crest of the Montezuma Hills; thence northwesterly through the crest of the Vaca Mountains; thence northerly along the crest of Putah, Cache, Stony, Thomes and Cottonwood Creek Basins and along the crest of the Trinity Mountains to Mt. Eddy; thence easterly through Mt. Shasta and along the northern boundary of the Pit River Basin to the crest of the Warner Mountains; thence southerly and westerly along the boundary of the Pit River Basin to Red Cinder Cone Peak; thence easterly along the northern boundary of the Feather River Basin to the crest of the Sierra-Nevada; thence southerly along the crest of the Sierra-Nevada to the southern boundary of the American River Basin; thence westerly along the southern boundary of the American River Basin to the eastern boundary of said Delta; thence northerly, westerly and southerly along the boundary of the Delta to the point of beginning.

flows as are provided for in "Memorandum of Agreement for the Protection and Preservation of Fish and Wildlife Resources of the Sacramento River as Affected by the Operation of Shasta and Keswick Dams and their Related Works and Various Diversions Proposed Under Applications 5625, 5626, 9363, 9364, 9365, 9366, 9367, 9368 and 10588 of the United States" between the United States and the California Department of Fish and Game, dated April 5, 1960, filed of record as Fish and Game Exhibit 7 at the hearing of said applications.

15. The State Water Rights Board reserves continuing jurisdiction over this permit until March 1, 1964, or such additional time as may be prescribed by the Board, for the purpose of formulating terms and conditions relative to salinity control in the Sacramento-San Joaquin Delta. Permittee shall on or before January 1, 1962, and each six months thereafter submit to the Board a written report as to the progress of negotiations relative to agreement between permittee and the State of California and/or the permittee and water users in the Delta and in Northern Contra Costa County.

16. The Board reserves continuing jurisdiction over this permit for an indefinite period not to extend beyond the date of issuance of license for the purpose of coordinating terms and conditions of this permit with terms and conditions which have been or which may be included in permits issued pursuant to other applications of the United States in furtherance of the Central Valley Project and applications of the State of California in furtherance of the State Water Resources Development System.

17. Upon the request of the Board permittee shall make such measurements and maintain and furnish to the Board such records and information as may be necessary to determine compliance with the terms and conditions of this permit, including the recognition of vested rights and for the further purpose of

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determining the amount of water placed to beneficial use under this permit by direct diversion and storage.

18. This permit is subject to "Agreement Between the United States of America and the Department of Water Resources of the State of California for the Coordinated Operation of the Federal Central Valley Project and the State Feather River and Delta Diversion Projects" dated May 16, 1960, filed of record as Department of Water Resources Exhibit 77 at the hearing of said applications.

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