

**SAN JOAQUIN RIVER**  
RESTORATION PROGRAM



**ANNUAL REPORT 2010**



2010



***The San Joaquin River Restoration Program (SJRRP)** is a comprehensive long-term effort to restore flows to the San Joaquin River from Friant Dam to the confluence of the Merced River restoring a self-sustaining Chinook salmon fishery in the river while reducing or avoiding adverse water supply impacts from restoration flows.*

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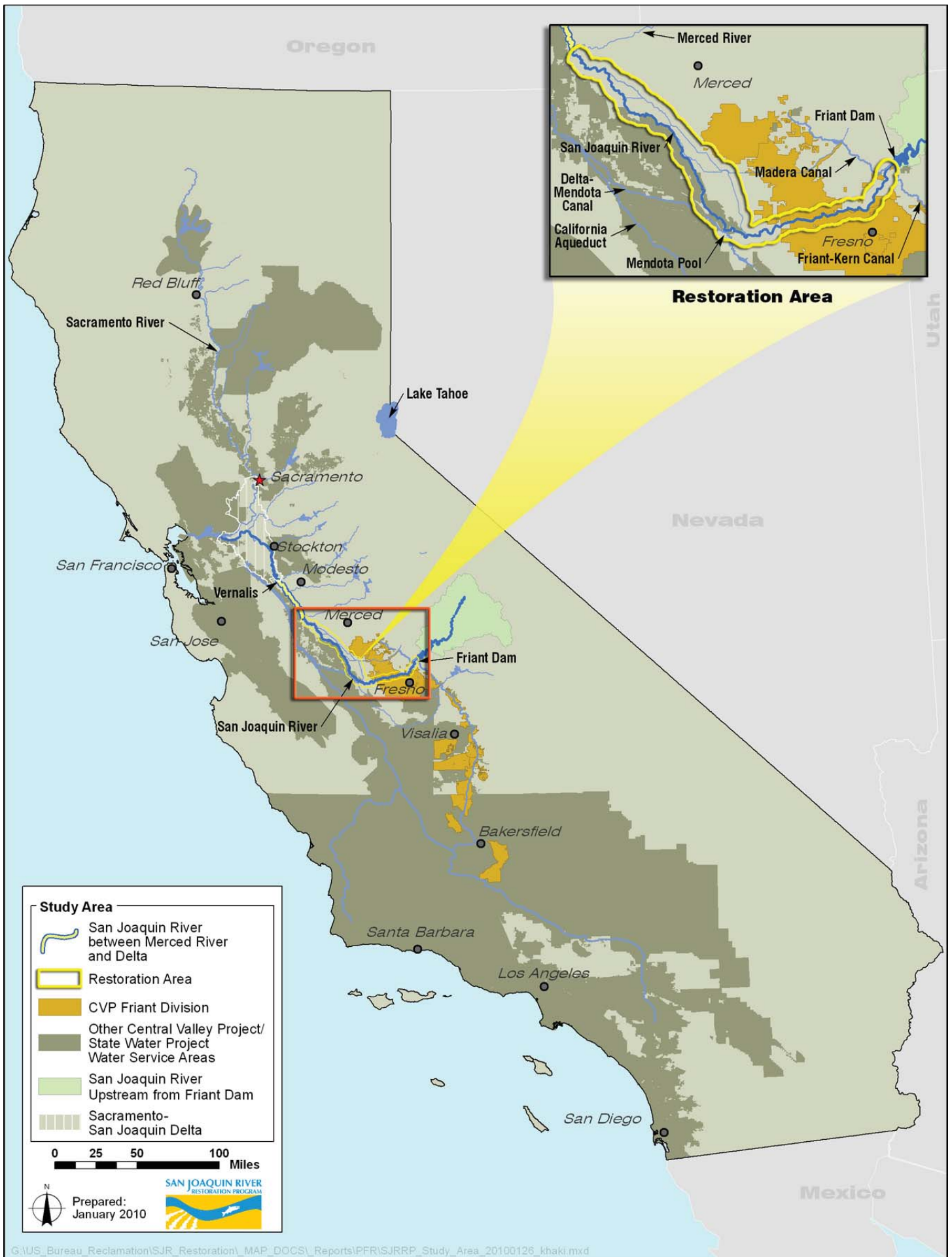


Figure 1 - Map of River Restoration Area

# Introduction

**T**he San Joaquin River Restoration Program (SJRRP or Program) 2010 Annual Report describes Program activities and accomplishments during 2010 and planned activities for 2011. The SJRRP was established upon court acceptance of a Stipulation of Settlement among the Settling Parties in October 2006 regarding restoration of the San Joaquin River, in the Central Valley of California.

During 2007, many organizational and managerial actions were completed to form the long-term structure for the SJRRP. In 2008, progress was made towards supporting the development of the Program Environmental Impact Statement/ Environmental Impact Report (PEIS/R). In 2009, significant progress was made toward implementing the Settlement, including activities in support of releasing the first Interim Flows on October 1, progress on the development of specific operational guidelines for releasing Restoration Flows and the framework for a Recovered Water Account, progress on three of the high priority Phase I channel improvements projects identified in the Settlement, and progress on development of a plan to recirculate water back to the Friant Division long-term contractors.



*San Joaquin River below Friant Dam*

In 2010, progress continued across all areas of the Program. Highlights include: completed the first year of Interim Flows including extensive physical and biological monitoring activities; continued activities in support of a site-specific study in Reach 2; reformulated the project description and held an additional scoping meeting for a site-specific study in Reach 4; recaptured 52,000 acre-feet of Interim Flows and recirculated it back to Friant Division long-term contractors; allocated more than 220,000 acre-feet of Recovered Water Account water to Friant Division long-term contractors; drafted financial assistance guidelines for local projects; executed new contracts with 27 Friant Division long-term contractors; and the submittal of a permit application for the reintroduction of salmon to the San Joaquin River by the U.S. Fish and Wildlife Service to the National Marine Fisheries Service.



*Friant Dam*

## SAN JOAQUIN RIVER RESTORATION AREA

The geographic area for the SJRRP includes California's Central Valley from the Sacramento-San Joaquin Delta (Delta) to the base of the Tehachapi Mountains south of Bakersfield (see **Figure 1**). This area includes the San Joaquin River from Friant Dam to the Delta, the Friant Division of the Central Valley Project (CVP), other water service areas potentially affected by changes in water deliveries or restoration of the San Joaquin River, and tributaries to the San Joaquin River downstream of the river restoration area. The river restoration area is 153 miles long and reaches from Friant Dam to the confluence of the Merced River. This stretch of river crosses the counties of Fresno, Madera, Merced, and Stanislaus. For the purposes of the Program, the river has been divided into five primary reaches (see **Figure 2**). The Program will also evaluate the Eastside and Mariposa bypasses for carrying interim and restoration flows.





*The Eastside Bypass Control Structure is one of two flood flow management structures that route San Joaquin River flows around all or a portion of Reach 4B. The Eastside Bypass is being considered as an option for routing of future Restoration Flows*

Reaches of the San Joaquin River under evaluation include:

- ▶ Reach 1 – Friant Dam to Gravelly Ford
- ▶ Reach 2 – Gravelly Ford to Mendota Dam
- ▶ Reach 3 – Mendota Dam to Sack Dam
- ▶ Reach 4 – Sack Dam to the confluence of Bear Creek and the Eastside Bypass
- ▶ Reach 5 – Eastside Bypass/Bear Creek confluence to the Merced River confluence

## THE SETTLEMENT

In 1988, a coalition of environmental groups, led by the Natural Resources Defense Council (NRDC), filed a lawsuit challenging the renewal of the long-term water service contracts between the United States and the Central Valley Project Friant Division contractors. After more than 18 years of litigation of this lawsuit, known as *NRDC, et al., v. Kirk Rodgers, et al.*, a Stipulation of Settlement (Settlement) was reached. On September 13, 2006, the Settling Parties reached agreement on the terms and conditions of the Settlement, subsequently approved by the Court on October 23, 2006. The “Settling Parties” include the NRDC, Friant Water Users Authority (FWUA), and the U.S. Departments of the Interior and Commerce.

The Settlement’s two primary goals are:

- ▶ Restoration Goal – To restore and maintain fish populations in “good condition” in the main stem of the San Joaquin River below Friant Dam to the confluence of the Merced River, including naturally reproducing and self-sustaining populations of salmon and other fish.
- ▶ Water Management Goal – To reduce or avoid adverse water supply impacts to all of the Friant Division long-term contractors that may result from the Interim Flows and Restoration Flows provided for in the Settlement.



*Friant-Kern Canal*

## SETTLEMENT IMPLEMENTATION

The Settlement states that the Secretary of the Interior (Secretary) will implement the terms and conditions of the Settlement. Additionally, the Settling Parties agreed that implementation of the Settlement will also require participation of the State of California (State). Concurrent with the execution of the Settlement, the Settling Parties entered into a Memorandum of Understanding (MOU) with the State by and through the California Natural Resources Agency, the Department of Water Resources (DWR), the Department of Fish and Game (DFG), and the California Environmental Protection Agency (Cal-EPA) regarding the State’s role in the implementation of the Settlement.

The program established to implement the Settlement is the San Joaquin River Restoration Program (SJRRP or Program), and the “Implementing Agencies” responsible for the management of the Program include the Bureau of Reclamation, United States Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), DWR, and DFG.



Figure 2 - Map of River Restoration Area



*San Joaquin River in Reach 2*

## AUTHORIZATION AND FUNDING

Federal participation in the SJRRP is authorized under the Central Valley Project Improvement Act (CVPIA) and the San Joaquin River Restoration Settlement Act (SJRRS Act), part of the Omnibus Public Land Management Act of 2009, Public Law 111-11. The CVPIA, signed in 1992, included provisions for the potential restoration of the San Joaquin River and authorized planning and environmental compliance for such activities. Federal funding obligated for the SJRRP in Fiscal Year (FY) 2010 for planning and environmental compliance activities was approximately \$12 million. The SJRRS Act, signed in March 2009, authorizes and directs the Secretary to fully implement the Settlement.

The State of California has committed its support of the Settlement by entering into the State MOU with the Settling Parties that outlines a collaborative role for the State in planning, design, funding and implementation of the actions set forth in the Settlement. In the November 2006 election, State propositions 84 and 1E were passed by the California voters and should provide about \$200 million of State bond funds for projects that will directly contribute to the restoration efforts.

## PROGRAM MANAGEMENT STRUCTURE

The Settlement included clear commitments that the Settling Parties and downstream water and land interests (referred to as Third Parties) would be involved in the development and implementation of plans by the Secretary. Court approval of the Settlement initiated a series of actions that resulted in a program approach structured to provide for effective oversight, management and transparency of the SJRRP. Key among these actions was the development of MOUs with the State of California and Third Party Stakeholders.

- ▶ State MOU – Signed at the same time as the Settlement, the State MOU recognizes that the State of California, through DFG, DWR, the Natural Resources Agency, and Cal-EPA, will play a major, collaborative role in the planning, design, funding, and implementation of the actions on the San Joaquin River called for by the Settlement; and
- ▶ Third Party Stakeholders MOU – Signed in February 2007, this MOU recognizes that the Third Parties will play a collaborative role in the planning, design, implementation, and potential adaptation of the actions on the San Joaquin River called for by the Settlement and in the implementing legislation.



The Program Organizational Chart (**Figure 3**) reflects the provisions of the Settlement and subsequent MOUs. The Program organization consists of the following:

The SJRRP Team is a multi-tiered group that includes staff from the Implementing Agencies. Roles and responsibilities of this group include:

- ▶ Program Management Team - Includes executives from the Implementing Agencies and is responsible for overall direction and coordination of the SJRRP;
- ▶ Program Manager - Provides direction and management of the Technical Work Groups (TWG) and serves as chair of the Program Management Team; and
- ▶ Technical Work Groups - The SJRRP features four primary Technical Work Groups (TWGs), each supported by various subject-matter specific sub-groups, as described later in this report.

The four TWGs are:

- Water Management
- Engineering & Design
- Environmental Compliance & Permitting
- Fisheries Management

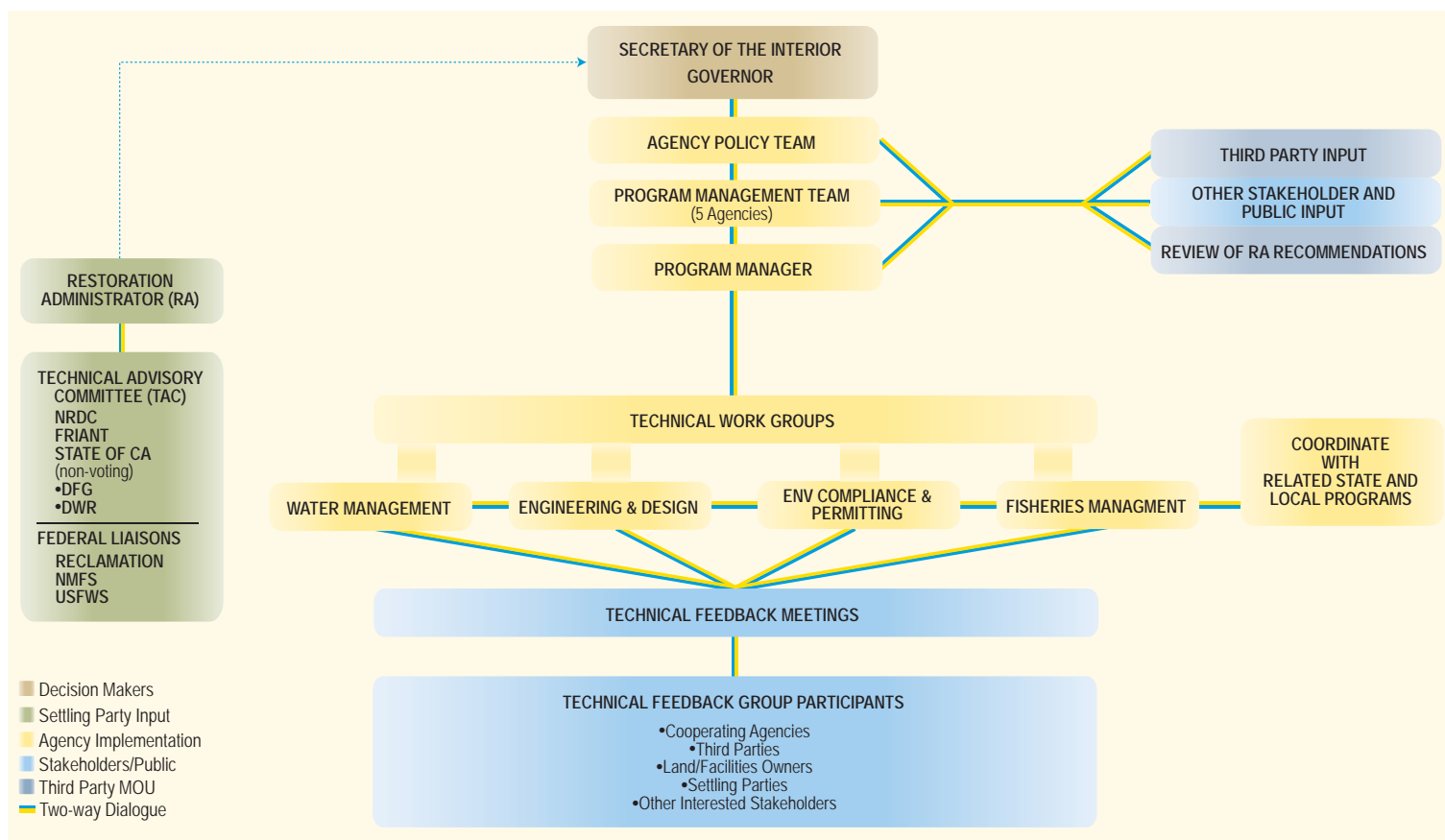


Figure 3 – Program Organizational Chart



Jason Phillips, Reclamation, gives a media interview at Friant Dam

PROGRAM MANAGEMENT TEAM	
<b>Bureau of Reclamation (U.S. Department of the Interior)</b>	
Jason Phillips (accepted another Reclamation position January 2011) SJRRP Program Manager 2800 Cottage Way, MP-170 Sacramento, CA 95825 916-978-5455 jphillips@usbr.gov	
<b>Fish &amp; Wildlife Service (U.S. Department of the Interior)</b>	
Robert Clarke (Interim) Fisheries Program Manager Pacific Southwest Region 2800 Cottage Way, Suite W2606 Sacramento, CA 95825 916-978-6178 robert_clarke@fws.gov	
<b>National Marine Fisheries Service (U.S. Department of Commerce)</b>	
Rhonda Reed Program Manager 650 Capital Mall, Suite 8-300 Sacramento, CA 95814 916-930-3615 rreed@noaa.gov	
<b>California Department of Water Resources (California Natural Resources Agency)</b>	
Kevin Faulkenberry DWR Program Manager South Central Region Office 3374 East Shields Avenue Fresno, CA 93726 559-230-3300 faulkenb@water.ca.gov	
<b>California Department of Fish and Game (California Natural Resources Agency)</b>	
Gerald Hatler Environmental Program Manager 1234 East Shaw Avenue Fresno, CA 93710 559-243-4014 ghatler@dfg.ca.gov	

### Restoration Administrator and Technical Advisory Committee

The Settlement specified the roles and responsibilities for a Restoration Administrator who is supported by a Technical Advisory Committee. The SJRRP management structure integrates these resources to obtain timely input on technical issues related to the Restoration Goal.

- ▶ **Restoration Administrator** – The Restoration Administrator (RA), selected jointly by the NRDC and Friant Water Authority (FWA), makes recommendations to the Secretary, in consultation with the Technical Advisory Committee, regarding specific elements of the Settlement and certain issues related to the SJRRP’s Restoration Goal.

- ▶ **Technical Advisory Committee** – The Technical Advisory Committee (TAC) features six voting members selected by and representing FWA and NRDC. Voting members of the TAC assist and advise the RA regarding areas outlined in the Settlement, have relevant technical or scientific background or expertise in fields related to river restoration or fishery restoration, and serve for 3 years. Two non-voting members representing the State agencies serve as liaisons to the RA and TAC. The Federal agencies have three liaisons to the TAC to ensure coordination and information-sharing with the Implementing Agencies.
- ▶ **Recommendations in 2010** - In accordance with the Settlement, the RA submitted the following recommendations to the SJRRP, with the support of the TAC:
  - 2009 RA Annual Report (February 2010)
  - 2010 Interim Flow Program - SJR February 1- December 1, 2010 (February 2010)
  - Potential Temporary Reduction of Interim Flows Below Sack Dam (April 30, 2010)
  - Interim Flow Schedule for May 1 - December 1, 2010 (April 30, 2010)
  - Interim Flow Schedule for May 17 - December 1, 2010 (May 17 2010)
  - Interim Flow Schedule for May 28 - December 1, 2010 (May 28, 2010)
  - Water Year 2011 Interim Flow Delay (November 1, 2010)
  - Revised RA 2010 Fall Pulse Flow Recommendation (November 5, 2010)
  - Revised RA 2010 Fall Pulse Flow Recommendation (November 14, 2010)
  - RA Transmittal Letter and Updated Recommendation to Evaluate Reoperation of the Chowchilla Bypass Structure for Routing of Interim and Restoration Flows (December 1, 2010)

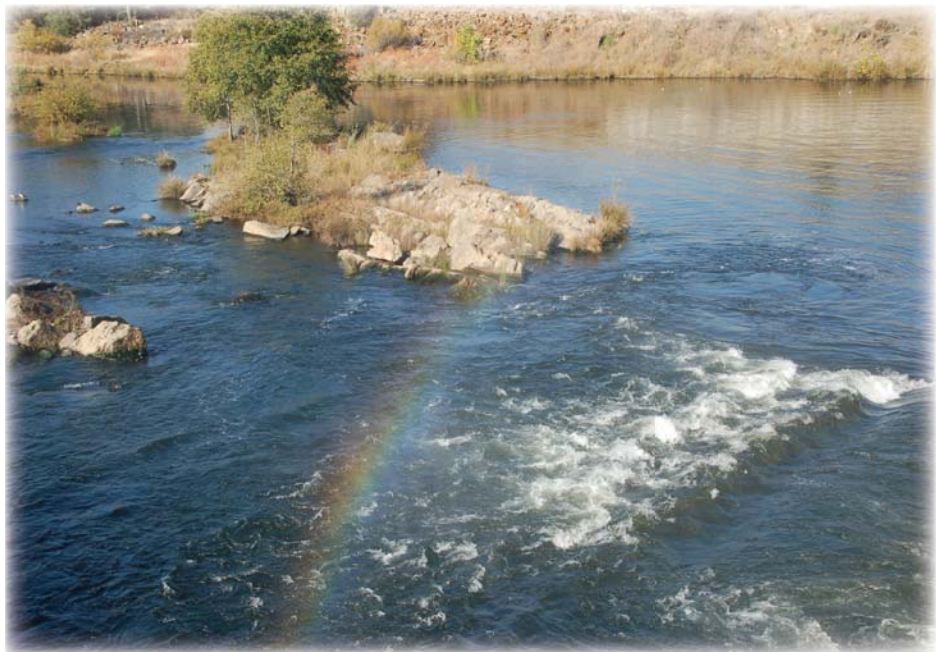
RESTORATION ADMINISTRATOR AND TECHNICAL ADVISORY COMMITTEE
<p><b>RESTORATION ADMINISTRATOR</b>  <b>Rod Meade</b></p>
<p><b>TECHNICAL ADVISORY COMMITTEE</b></p> <p><i>Voting Members</i></p> <p><b>Monty Schmitt</b> – Senior Water Resources Scientist, NRDC  <b>Bill Luce</b> – Consulting Resources Manager, Friant Water Users Authority  <b>Scott McBain</b> – McBain and Trush  <b>Chuck Hanson</b> – Hanson Environmental  <b>Peter Moyle</b> – University of California, Davis  <b>Ed Solbos (through June 2010)</b> – Independent Consultant</p> <p><i>Non-voting Members</i></p> <p><b>Paula Landis</b> - DWR  <b>Gerald Hatler</b> - DFG</p> <p><b>FEDERAL LIAISONS</b></p> <p><b>Jason Phillips</b> – Reclamation  <b>Rhonda Reed</b> – NMFS  <b>Robert Clarke</b> – USFWS</p>



► **Third Party Stakeholders**

Third Parties are persons or entities diverting or receiving water pursuant to applicable State and Federal laws and includes Central Valley Project contractors outside of the Friant Division of the Central Valley Project and State Water Project.

THIRD PARTY MOU SIGNATORS
<b>ENTITIES ALONG THE SAN JOAQUIN RIVER</b> <ul style="list-style-type: none"><li>• San Joaquin River Exchange Contractors Water Authority</li><li>• Central California Irrigation District</li><li>• Firebaugh Canal Water District</li><li>• San Luis Canal Company</li><li>• Columbia Canal Company</li><li>• San Joaquin River Resource Management Coalition</li></ul>
<b>DOWNSTREAM TRIBUTARY WATER USERS</b> <ul style="list-style-type: none"><li>• Merced Irrigation District</li><li>• Turlock Irrigation District</li><li>• Modesto Irrigation District</li><li>• Oakdale Irrigation District</li><li>• South San Joaquin Irrigation District</li><li>• San Joaquin Tributaries Association</li></ul>
<b>OTHER CENTRAL VALLEY PROJECT WATER USERS</b> <ul style="list-style-type: none"><li>• Westlands Water District</li><li>• San Luis and Delta-Mendota Water Authority</li></ul>



*San Joaquin River below Friant Dam*

# 2010 Progress and Accomplishments

**T**he following section summarizes the accomplishments of the Program's four work groups and progress towards meeting the Restoration and Water Management goals. These 2010 accomplishments emphasize the Program's commitment to an open and transparent process through extensive public involvement efforts throughout the last year.



*Friant Dam*

## RESTORATION AND WATER MANAGEMENT GOAL 2010 ACCOMPLISHMENTS

### Restoration Accomplishments:

- ▶ Completed the planning, environmental compliance, and permitting activities for the second year of initial experimental flow releases from Friant Dam, termed Interim Flows, that began on October 1, 2010
- ▶ Reformulated the project description and held an additional public scoping meeting to further the planning, environmental compliance, and design efforts for the Reach 4B, Eastside Bypass, and Mariposa Bypass Channel and Structural Improvements Project
- ▶ Continued the planning, environmental compliance, and design efforts for the Mendota Pool Bypass and Reach 2B Channel Improvements Project
- ▶ Initiated planning, environmental compliance, and design efforts for the Arroyo Canal Fish Screen and Sack Dam Fish Passage Project
- ▶ Made improvements to the SJRRP monitoring network and implemented studies to monitor Interim Flows releases with information to be disseminated in an Annual Technical Report
- ▶ Released Interim Flows monitoring and analysis results in the 2009 Annual Technical Report in February 2010 and the Draft 2010 Annual Technical Report in August 2010
- ▶ Submitted a permit application by the September deadline to reintroduce salmon to the San Joaquin River
- ▶ Completed a Financial Assistance Agreement with San Luis Canal Company to assist them with installing four new gates on Sack Dam to improve flow control capabilities through the structure from Interim Flows
- ▶ Installed 40 additional groundwater monitoring wells and began updating the Seepage Management Plan with landowner coordination, review, and input

### Water Management Accomplishments:

- ▶ Completed the first year of testing for the allocation and release of Restoration Flows
- ▶ Continued development of operational guidelines for releasing Restoration Flows and the framework for a Recovered Water Account (RWA)
- ▶ Allocated more than 220,000 acre-feet and delivered almost 100,000 acre-feet of RWA water to Friant Districts to take advantage of wet years water supplies during water contract year 2010



- ▶ Recaptured flows at Mendota Pool and recirculated 52,000 acre-feet to Friant districts during Water Year 2010
- ▶ Continued planning on Delta recapture and long-term recirculation mechanisms to return water back to the Friant Division long-term contractors including coordination with other water users
- ▶ Drafted Guidelines for Financial Assistance for Local Projects
- ▶ Continued progress on the Friant-Kern and Madera Canals Capacity Restoration Project
- ▶ Continued progress on the Friant-Kern Canal Reverse Flow Pump-back Project
- ▶ Negotiated and executed 27 contracts with Friant Division and Hidden and Buchanan Units contractors



*Doug Deflitch, Supervisory Hydrologist with Reclamation's Friant Dam Field Office, watches flows increase to 800 cfs on March 16, 2010*

Throughout 2010, Reclamation held more than 15 negotiation sessions to develop a form of Contract with contractors from the Friant Division and Hidden and Buchanan Units. From the form of Contract, Reclamation negotiated 27 of a possible 31 contractor-specific contracts.

To date, the funds collected from 15 Contractors represents payment in full of their Repayment Obligation. Section 10010(a) of the SJRRS Act provided for the conversion of the Friant long-term water service contracts to repayment contracts prior to December 31, 2010. Among other things, the conversion to repayment contracts allows for accelerated repayment of the capital obligation of the Friant, Hidden, and Buchanan facilities, and these funds would be used to help pay for the activities set forth in the Settlement. In addition to the benefits to the Program, the Contractors who converted their contracts will be relieved from compliance with the Acreage Limitation provisions, full cost pricing, and reporting requirements of the Reclamation Reform Act of 1982 and the tiered pricing component of the water rates outlined in Section 3405(d) of the Central Valley Project Improvement Act. The converted Contracts are also perpetual and provide the Contractors with a specific right to a stated share of the Friant Division water supply.

## TECHNICAL WORK GROUPS AND 2010 ACTIVITIES

The four Technical Work Groups (TWGs) of the SJRRP and their related sub-groups contributed to their areas expertise towards the development and implementation of Program activities. Listed below is a summary of each TWG's focus and accomplishments for 2010.

### Water Management TWG

Working in collaboration with all TWGs, the Water Management TWG addresses water operations for accomplishing the Restoration and Water Management goals. In 2010, this group continued work on recapture and recirculation of Interim Flows for the benefit of Friant Division long-term contractors; development of Restoration Flow Guidelines; management of the Recovered Water Account; and continued progress on two Feasibility studies required in the SJRRS Act.

Accomplishments in 2010:

- ▶ Completed monthly Water Management public Technical Feedback Group meetings
- ▶ Completed an allocation and scheduling process for releasing Restoration Flows



*Friant-Kern Canal*

- ▶ Completed planning and simulations for Water Management Goal actions for the public Draft PEIS/R
- ▶ Completed “full-fix” evaluation for the Friant-Kern and Madera Canals Capacity Restoration that noted costs exceeding benefits and authorized funding. We are currently working on reformulating the Project
- ▶ Completed “legislated capacities” evaluation of Friant-Kern Canal Reverse Flow Pump-back Project that noted costs exceeding benefits and authorized funding. We are currently working on reformulating the Feasibility Project
- ▶ Recaptured and recirculated more than 52,000 acre-feet of Interim Flow releases
- ▶ Continued progress on the:
  - Development of specific operational guidelines for releasing Restoration Flows and the framework for a Recovered Water Account
  - Long-term recapture and recirculation planning to return water back to the Friant Division long-term contractors including coordination with other water users
  - Preparation of Guidelines for Financial Assistance to Local Projects

### **Monitoring Subgroup**

The Monitoring Subgroup consisting of monitoring leads from the Implementing Agencies met periodically during 2010 to plan, coordinate, and implement monitoring activities. Information acquired through these activities will help to form and refine the scientific basis for actions taken in fulfillment of the Settlement including Friant Dam operations, San Joaquin River channel and facilities improvements, and Chinook salmon reintroduction.

Accomplishments in 2010:

- ▶ Allocation and operation of Interim Flow releases for 2010
- ▶ Dissemination of data collected in 2009 and 2010 through an Annual Technical Report
- ▶ Announcement of 2011 data collection efforts through a Monitoring and Analysis Plan

- ▶ Monitored the spring and fall Interim Flows including stage (34 locations), flow (17 locations), surface water temperature (64 locations), groundwater temperature (41 locations), and other water quality parameters on the San Joaquin River, Bypass system, and tributaries
- ▶ Installed 40 monitoring wells and 2 piezometers in 2010. Including the 51 monitoring wells and piezometers installed in 2009, the 15 wells re-monitored from the 2002 pilot project, 3 CCID wells and 12 private wells monitored regularly by the SJRRP, the groundwater monitoring well network was extended to 123 wells in 2010
- ▶ Conducted 87 soil salinity surveys to establish baseline salinity levels
- ▶ Conducted 25 hydraulic conductivity tests at locations in Reach 4A and 4B1 and the Eastside Bypass
- ▶ Engaged USGS to provide quality assurance oversight for the streamflow data
- ▶ Collected suspended sediment and bed load samples at five locations in Reaches 1-3, and bed material samples as part of fisheries habitat assessments in Reach 1
- ▶ Collected aerial imagery of the Restoration Area for five different Friant Dam release rates during spring Interim Flows
- ▶ Evaluated fish passage at key locations in the Restoration Area

### Fisheries Management TWG

The Fisheries Management TWG is responsible for planning and coordination efforts to implement sections in the Settlement related to meeting the fisheries components of the Restoration Goal. Work during 2010 consisted of document preparation and submission, study development and implementation, and technical input to various Program efforts.



Courtesy of DWR

*A salmon traveling upstream*

Accomplishments in 2010:

- ▶ Revised and released the final draft Fisheries Management Plan (FMP). The FMP incorporates Strategic Habitat Conservation Planning concepts and lays out a structured approach to adaptively manage the reintroduction of Chinook salmon and other fishes to the San Joaquin River. The FMP incorporated recommendations from the RA based on input from the TAC and from the Independent Review of the CVPIA Fisheries Program.
- ▶ Completed a draft 2010 Interim Flow Fisheries Implementation Plan detailing specific monitoring procedures and recommendations to gather the fisheries and physical habitat needs information.
- ▶ Released Interim Flows monitoring and analysis results in the 2009 Annual Technical Report in February 2010 and the Draft 2010 Annual Technical Report in August 2010.



- ▶ Completed the Endangered Species Act 10(A)(1)(a) permit application and submitted to NMFS.
- ▶ Completed a final Stock Selection document include in FMP identifying strategies and procedures for the selection of Central Valley spring-run Chinook salmon for reintroduction.
- ▶ Completed a Reintroduction Strategy Document identifying the methods and numbers for collection of donor stocks to support Central Valley spring-run Chinook salmon reintroduction to the San Joaquin River.
- ▶ Completed the Hatchery and Genetics Management Plan (HGMP) providing the basis for captive rearing and propagation of Central Valley spring-run Chinook salmon for reintroduction to the San Joaquin River.
- ▶ Provided technical support for the Mendota Pool Bypass and Reach 2B Channel Improvements Project, the Reach 4B, Eastside Bypass, and Mariposa Bypass Channel and Structural Improvements Project, and the draft PEIS/R regarding fish passage, screening, and floodplain habitat development.
- ▶ Continued providing input and guidance for functioning Ecosystem Diagnosis and Treatment quantitative model for the SJRRP.
- ▶ Provided technical support for the Water Quality Monitoring portion of the program
- ▶ Provided fisheries support for the development of the Restoration Flow Guidelines

#### SCIENTIFIC STUDIES PROPOSED AND COMPLETED

##### STUDY PROPOSALS IN THE AGENCY PLAN FOR IMPLEMENTATION IN 2011:

- Floodplain Inundation
- Entrainment
- Salmon Survival
- Migration Cues
- Egg Survival
- Gravel Quantity and Quality
- Illegal Harvest
- Macroinvertebrate Assessment
- Passage
- Predation
- Temperature – Migration
- Temperature – Millerton Reservoir

##### STUDIES IMPLEMENTED IN 2010 AND REPORTED IN THE ATR:

- Completed first year of river bioassessment using Surface Water Ambient Monitoring Program protocols
- Completed meso-habitat mapping for Reach 1B, 2, and 4A and draft report
- Continued temperature monitoring study
- Completed initial efforts on passage evaluation
- Started hyporheic study
- Started Hills Ferry barrier evaluation
- Started recreation impact study
- Started planning for micro-habitat study





*Private bridges in the Eastside Bypass are used by area landowners to transport farm machinery and equipment. Many of these bridges are inundated during flood operations.*

### Engineering and Design TWG

This TWG is responsible for engineering and design of structures and flow channels needed to meet the Restoration and Water Management goals of the Settlement. Through coordination with other TWGs, the Engineering and Design TWG is estimating the costs of structures and flow channels for: inclusion in the Draft PEIS/R; the Mendota Pool Bypass and Reach 2B Channel Improvements Project; Reach 4B, and Eastside and Mariposa Bypass Channel and Structural Improvements Project; the Arroyo Canal Fish Screen and Sack Dam Fish Passage Project; Friant-Kern and Madera Canal Capacity Correction Project; and the Friant-Kern Canal Reverse-Flow Pump-back Facilities Project. These designs, and cost estimates will assist in the development of alternatives for each of the projects.

The Engineering and Design TWG is also responsible for the monitoring of physical parameters and development of seepage mitigation projects. Efforts include the installation of monitoring equipment including temperature sensors, stream gages, and groundwater wells. The Engineering and Design TWG also began hosting Seepage and Conveyance Technical Feedback Meetings to discuss seepage management plans and solicit feedback from stakeholders on the non-damaging level of flows that can be released from Friant Dam and passed below Mendota Pool.

Accomplishments in 2010:

- ▶ Developed designs and initial alternatives for the Mendota Pool Bypass and Reach 2B Channel Improvements Project
- ▶ Developed designs for the Reach 4B, Eastside Bypass, and Mariposa Bypass Channel and Structural Improvements Project



*The newly installed San Mateo Gage*

### Environmental Compliance and Permitting TWG

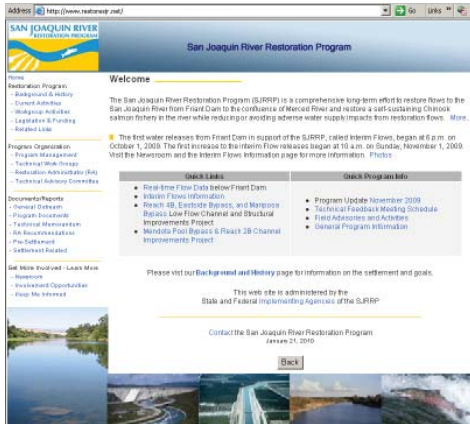
This TWG plans and coordinates efforts to implement elements of the Settlement in relation to environmental studies, permits, alternative formulation, and other requirements necessary for actions needed to meet the Restoration and Water Management goals.

Accomplishments in 2010:

- ▶ Continued progress towards preparation and agency coordination of the Draft PEIS/R
- ▶ Completed the Water Year 2011 Supplemental Interim Flows Environmental Assessment/Finding of No Significant Impact (EA/FONSI), National Historic Preservation Act (NHPA) compliance, and Endangered Species Act (ESA) compliance
- ▶ Completed the Recirculation of Recaptured Water Year 2010 SJRRP Interim Flows EA/FONSI and compliance activities
- ▶ Coordinated federal environmental compliance activities on a new stream gage at San Mateo Avenue, several sets of groundwater monitoring wells, geotechnical investigations, and other SJRRP actions as needed
- ▶ Continued to have Streamflow and Water Quality Monitoring sub-group meetings during Interim Flow releases. The group meets to go over water monitoring data, discuss real-time conditions, and comply with water quality monitoring requirements stated in the Water Rights Order for the Water Year 2010 and 2011 Interim Flows Projects and with reporting associated with ESA concurrence and biological opinions



*Viewed from the Mariposa Bypass Control Structure, the 3.3-mile-long Mariposa Bypass routes flood flows around Reach 4B1 of the San Joaquin River. The Mariposa Bypass typically receives the majority of Eastside Bypass flows when high flows are present in the Merced Streams Group.*



The Program's web site home page: [www.restoresjr.net](http://www.restoresjr.net)

## KEY DOCUMENTS AND TECHNICAL MEMORANDA RELEASED IN 2010

Numerous key program documents and Technical Memoranda (TMs) were developed in 2010. As they became available, these documents and TMs were posted on the Program web site to facilitate early coordination with the Settling Parties, Third Parties, other stakeholders, and interested members of the public regarding initial concepts and approaches under consideration. While the Program Team does not request formal comments on the TMs, to the extent possible, all comments received are considered in refining the concepts and approaches in the TMs and in future Program documents.

### Summary of Documents Released in 2010

Program documents can be found on the SJRRP website at [www.restoresjr.net/program\\_library/O2-Program\\_Docs/index.html](http://www.restoresjr.net/program_library/O2-Program_Docs/index.html).

### General Documents

#### ► Annual Technical Report

The Annual Technical Report (ATR) for the SJRRP provides an incremental update on monitoring and analyses completed for each year of Interim Flows. The ATR tracks long-term restoration approaches, identifies outstanding information needs, reports monitoring and analysis results, documents the Program's scientific approach for operating Friant Dam, and provides feedback into the decision-making process. The ATR is a way for the Implementing Agencies to present to stakeholders the process used to address specific SJRRP needs. A draft ATR for the fall 2009 Interim Flows period of October 1 through November 20, 2009 was released and available on the web in February 2010. A draft ATR for the spring 2010 Interim Flows period of February 1 through June 30, 2010 was released and available on the web in August 2010.

#### ► 2011 Agency Plan

The Agency Plan presents studies designed by the Implementing Agencies to manage Interim Flows for the next year of the SJRRP. Studies describe tasks to be implemented by the Agencies to address one or more information needs and address requirements from multiple sources, including the Restoration Administrator's recommendations, Restoration Flow Guidelines, Water Year 2011 Interim Flows Supplemental Environmental Assessment, Water Rights Order 2009-058-DWR, Water Rights Order 2010-029-DWR, and any additional monitoring or assessment needs for Water Year 2011, existing operations agreements, and the Draft Fisheries Management Plan (FMP) (SJRRP 2009). The Final 2011 Agency Plan was released and available on the web in November 2010.

#### ► Environmental Assessment and Finding of No Significant Impact for the Recirculation of Recaptured Water Year 2010 San Joaquin River Restoration Program Interim Flows

Reclamation prepared an EA to recirculate up to 60,000 acre-feet of water from San Luis Reservoir that was recaptured as a result of SJRRP Water Year 2010 Interim Flows. A Draft EA was released in June 2010, and available for public comment. A Final EA was released in July 2010.



*San Joaquin River in Reach 1*

▶ **Water Year 2011 Interim Flows Project Supplemental Environmental Assessment**

The Supplemental EA described and analyzed the effects of an additional year of Interim Flows for Water Year (WY) 2011. This EA extended the project originally described in the WY 2010 Final EA for one additional year but generally did not change other aspects of the project. The Draft Supplemental EA was released and available in June 2010. The Final Supplemental EA and FONSI were completed in September 2010.

▶ **Draft Guidelines for the Application of Criteria for Financial Assistance for Local Projects**

This document provides draft guidelines for obtaining Federal financial assistance for groundwater recharge and/or banking projects consistent with Public Law 111-11. This law authorizes Reclamation to provide financial assistance for the planning, design, environmental compliance, and construction of local facilities to bank water underground or to recharge groundwater to reduce, avoid, or offset the quantity of expected water supply impacts to Friant Division long-term contractors caused by the Interim and Restoration flows. The Draft Guidelines was released in March 2010.

▶ **2009-2013 Interim Flow Release Program, Water Quality Monitoring Plan**

The purpose of this document, prepared by the Interagency Water Quality Monitoring Workgroup, is to describe a program to monitor water quality changes that may occur with the 2010 – 2013 Interim Flow Release Program of the SJRRP. It was released and available on the web in January 2010.

▶ **Draft Fisheries Implementation Plan 2009-2010**

The Implementation Plan outlines work plans that were given very high or high priority status by the Fisheries Management Technical Work Group for 2010. Proposals were prioritized based on: implementation date, phase status, and whether or not agencies had work related to the proposal in progress. The Draft Plan was released and available on the web in January 2010.

▶ **Hatchery and Genetics Management Plan**

The Program's Spring-Run Chinook Salmon Hatchery Genetic Management Plan (HGMP) provides guidance on the management and operation of the Program's Conservation Facility. The HGMP and decisions made under this plan are guided by an adaptive management strategy as described in the SJRRP 2010 Draft Fisheries Management Plan. The HGMP was released and available on the web in December 2010.

▶ **Fisheries Management Plan**

The Fisheries Management Work Group (FMWG) was tasked with developing the Fisheries Management Plan (FMP) as a first step in the Restoration Goal planning process. The FMWG immediately began work in early 2007 researching fisheries management planning approaches in other systems. Conceptual models for spring- and fall-run Chinook salmon were developed, forming the basis of the FMP that was completed in a collaborative process. In addition, numerous Technical Feedback meetings, open to the public, were held to discuss the development and technical assumptions of the FMP. The FMP was released and available on the web in November 2010.

► **Stock Selection Strategy**

The Stock Selection Strategy is part of a multi-step process to select a stock or stocks of spring-run Chinook salmon for reintroduction to the San Joaquin River and ultimately determine appropriate methods of reintroduction. It is the product of the Genetics Subgroup of the FMWG. The Genetics Subgroup focuses on genetic issues related to protecting the genetic integrity of the reintroduced stock, stock selection, reintroduction strategies, development of the Hatchery and Genetics Management Plan, and other hatchery-related issues. The Stock Selection Strategy was released and available on the web in November 2010.

► **U.S. Fish and Wildlife Service’s 10(a)1(A) Permit Application**

The 10(a)1(A) Enhancement of Species Permit Application for the Re-Introduction of Central Valley spring-run Chinook salmon into the San Joaquin River proposes specific criteria, guidelines, and measures that the U.S. Fish and Wildlife Service and their sub-grantees will follow during the implementation of the proposed action. The 10(a)1(A) Application was released and available on the web on September 29, 2010.

► **Mendota Pool Bypass and Reach 2B Channel Improvements Project Documents**

Several Technical memoranda were released in 2010 in support of preparing an Environmental Impact Statement/Report (EIS/R) for the Mendota Pool Bypass and Reach 2B Channel Improvements Project. The documents were prepared and circulated to facilitate early coordination regarding initial concepts and approaches under consideration by the SJRRP Team.

- Public Scoping Report – February 2010
- Draft TM on Existing Environmental Conditions – March 2010
- Initial Options TM – April 2010
- Selection and Use of Analytical Tools TM – October 2010



*Mendota Pool*

**Technical Memoranda**

Technical memoranda (TMs) can be found on the SJRRP website at [www.restoresjr.net/program\\_library/03-Tech\\_Memoranda/index.html](http://www.restoresjr.net/program_library/03-Tech_Memoranda/index.html)

**PUBLIC INVOLVEMENT AND OUTREACH**

The SJRRP includes a variety of public outreach activities creating an open and transparent process that the general public, stakeholders, affected Third Parties, and other interested parties can monitor and participate in. To set the framework for the outreach, the Program developed a Public Involvement Plan (PIP) that describes how the five Federal and State agencies implementing the Program inform and involve all levels of leaders, managers, stakeholders, and the general public. Effective communication and coordination with all interested and affected parties helps ensure that stakeholders and the public are fully informed, have an opportunity for input, and that Program actions are implemented efficiently and effectively. Outreach activities conducted in 2010 included:

## Technical Feedback Group Meetings

Technical Feedback Group (TFG) meetings continued during 2010 in support of the Water Management, Restoration Goal, and Fisheries Management TWGs. These meetings assist Program staff in soliciting input from technical experts, interested stakeholders, and the public in the development of key Program documents and implementation activities. The meetings also provide a public process for the various steps of Program development and implementation. In addition to the Water Management, Restoration Goal, and Fisheries Management TFGs, the SJRRP established a new Seepage and Conveyance TFG in 2010 to provide a forum for discussions related to Interim and Restoration flows and conveyance-related and seepage issues. The first Seepage and Conveyance TFG meeting was held in December 2010 with follow-up meetings planned for January and February 2011. Participation is open to the public, including the Settling Parties, Third Parties, landowners along the river and any stakeholders with an interest in seepage and conveyance issues.

### ► Technical Feedback Group Meeting Dates (2010)

Technical Feedback Group	
<b>Water Management</b>	Jan 8, Feb 12, Mar 5, Apr 2, May 7, Jun 11, Aug 10, Oct 15
<b>Restoration Goal</b>	Apr 28
<b>Seepage and Conveyance</b>	Dec 17



Jason Phillips talks with a landowner at a public meeting

## Landowners Meetings

Refinement and continued development of technical content in site-specific studies and response to requests from landowners shifted the focus of landowner meetings in 2010. While 2009 focused on convening groups of landowners, 2010 saw numerous in-person and phone meetings with individual landowners. The majority of these meetings were held in support of SJRRP Field Advisories (see below) released in 2010. In certain circumstances, in-person meetings were held at the home or ranch of a landowner by DWR and/or Reclamation staff to provide Program background and other information specific to their property. These meetings were typically held in response to a request to enter a property for study or to engage the landowner in alternatives development and formulation for site-specific projects.



Hydrologist Stephen Lee and Hydrologic Technician Carlos Hernandez take a measurement at a monitoring well

### Field Advisories

The Program initiated the preparation and distribution of Field Advisories and landowner notifications in 2010 to inform landowners and other interested parties of upcoming field activities. This outreach included:

- ▶ Program Advisory for Interim Flows posted on the SJRRP website providing the schedule for Interim Flows that started February 1 – January 21
- ▶ Soil Salinity Surveys sent to landowners adjacent to Reaches 2B, 3 and 4, and included a letter and Frequently Asked Questions information sheet – February 17
- ▶ U.S. Geological Sediment Sampling Survey notification posted on the SJRRP website about the performance of sediment surveys during Water Year 2010 spring Interim Flows by boat and land-based techniques – March
- ▶ Program Advisory for Water Year 2010 Interim Flows posted to the SJRRP website and distributed via email to landowners and other Third Parties – March 3
- ▶ Reach 1B Bathymetric Surveys posted on the SJRRP website for streambed mapping by boat from Highway 99 to Gravelly Ford by DWR – March 8
- ▶ Summer Biological Surveys posted on the SJRRP website and distributed via email to landowners. The survey included performance of biological, cultural, and archeological surveys in Reach 2B south of the San Joaquin River – July 23
- ▶ Groundwater Seepage Monitoring Well Installation notification to landowners for the installation of 18 seepage monitoring wells to be drilled in the public right of way – October 20 and 25
- ▶ California State Lands Commission Boundary Surveys sent by mail and email to all landowners of private property where site visits may be needed for boundary surveys in Reaches 2B, 3, 4A and 4B. Mailing supported by follow-up calls to individual landowners and other interested Third Parties – November 16

### Public Scoping Meetings for Site-specific Projects

Reclamation and DWR held a public scoping meeting in December 2010 to inform the preparation of a joint EIS/EIR for the revised proposed Reach 4B, Eastside Bypass and Mariposa Bypass Channel and Structural Improvements Project in Merced County, pursuant to NEPA and CEQA. The scoping meeting was held on December 6, 2010, in Los Banos to discuss the effects of the revised project. The meeting notice was posted on the Program website, in advertisements in local newspapers, in notices distributed via email to the Program mailing list, and through a press release to regional media. Letters were also sent to landowners in the Reach 4B area.

### Program Information Distribution/Mailings

- ▶ *Program Mailing List:* In order to provide targeted information to individuals and groups, the Program actively maintains a mailing list of individuals, organizations, and public agencies who wish to receive notifications of Program activities. Interested individuals are able to submit contact information at meetings, on printed material, and on the website. As of December 2010, the list included approximately 3,400 contacts.



- ▶ **Program Updates:** Two four-page Program Updates were developed for distribution to the mailing list and were posted on the Program web site in April and July 2010.
- ▶ **Fact Sheet:** SJRRP Fact Sheets are developed to disseminate specific information on certain components of the Program:
  - SJRRP Trifold Brochure – released in May
- ▶ **Press Releases** distributed for the following events:
  - Release of Draft Supplemental Environmental Assessment and Proposed Finding of No Significant Impact for 2011 Interim Flows Press Release – June 11
  - Release of Draft Environmental Document for Recirculation of Recaptured Water Year 2010 Interim Flows Press Release – June 28
  - Release of Final Supplemental Environmental Assessment and Finding of No Significant Impact for Water Year 2011 Interim Flows – September 22
  - Revised Reach 4B Project Proposal and Additional Public Scoping Meeting Press Release – November 22
- ▶ **2009 SJRRP Annual Report** released and publicly available in March
- ▶ **Additional Program Distribution**
  - Interim Flows Information disseminated via the Interim Flows Notification List by U.S. mail, email, and phone calls – October 20
- ▶ **Other**
  - The website, updated frequently, includes a general Program fact sheet in Spanish, *Programa de Restauración del Río San Joaquín*. Visit the website at [www.restoresjr.net](http://www.restoresjr.net).



### Temporary Entry Permit Coordination

The SJRRP continues to work with local landowners and Third Parties, including the San Joaquin River Resource Management Coalition (RMC), in distribution and execution of Temporary Entry Permits for pre-construction surveys and investigations on private property. In 2010, the Program received Third Party support for distributing a “comprehensive” Temporary Entry Permit to landowners for a wide range of activities including field reconnaissance surveys, sediment sampling, soil surveys, terrain surveys, water surface and flow measurements, biological resource surveys, cultural surveys, and vegetation mapping. Thirty-six landowners in Reaches 2B, 3, 4A and 4B, and the Mariposa and Eastside bypasses received these Temporary Entry Permit requests in May 2010. Twelve comprehensive Temporary Entry Permits were executed in 2010. The Program further continued to distribute Temporary Entry Permits for geologic investigations in 2010. Such Temporary Entry Permits are required in order for the Program to enter and install seepage monitoring wells. Nine geologic Temporary Entry Permits were issued in 2011 at various intervals and five were fully executed. Seepage Monitoring Well Agreements developed in coordination with geologic investigation Temporary Entry Permits in 2010 totaled 14. One seepage Monitoring Well Agreement was canceled in 2010 as the result of a title transfer to a new owner.



*Reclamation Hydrologist Stephen Lee and Hydrologic Technician Carlos Hernandez repair a stream gage while Fresno Bee reporter Mark Grossi looks on*



*Chase Hurley, San Luis Canal Company, briefs participants on the Water Education Foundation SJRRP tour*

### San Joaquin River Restoration Tour

For the third year, the SJRRP co-sponsored a two-day San Joaquin River Restoration Tour organized by the Water Education Foundation on October 13-14, 2010. About 40 participants attended the tour highlighting the projects and challenges related to restoring the San Joaquin River and its salmonid fish populations. The public tour provided diverse perspectives from several resource speakers and stopped at numerous key locations along the San Joaquin River.



*Norm Ponferrada, NMFS, and Tom Snyder, DWR, answer questions at the SJR Faire at Lost Lake Park on August 21, 2010, hosted by Revive the San Joaquin*

### San Joaquin River Restoration Conference

SJRRP Program Manager Jason Phillips provided a Program update to about 200 attendees at the San Joaquin River Partnership's conference in Fresno on October 1, 2010.

## PROGRAM COSTS AND FUNDING

Funding for the SJRRP is provided by the Federal government and the State of California, as summarized below. These funds are used to support the implementation of actions outlined in the Settlement.

**State and Federal Funding Provided to Implement the SJRRP**

	FY 07	FY 08	FY 09	FY 10	FY 11	TOTAL
Federal	\$3,137,000	\$7,200,000	\$20,123,000	\$12,031,981	\$21,400,000	<b>\$63,891,981</b>
State	\$1,740,000	\$4,627,089	\$6,693,069	\$11,296,616	\$16,286,626	<b>\$40,643,400</b>
<b>Total</b>	<b>\$4,877,000</b>	<b>\$11,827,089</b>	<b>\$26,816,069</b>	<b>\$23,328,597</b>	<b>\$37,686,626</b>	<b>\$104,535,381</b>

Source: Reclamation, DWR, and DFG

Notes: Federal Funding includes \$2.0M in Fiscal Year 10 and \$1.5M in Fiscal Year 11 in State Contributed Funds.

Fiscal Year 11 values are projected.

See [www.restoresjr.net](http://www.restoresjr.net) for more information.

State Fiscal Year is from July 1 – June 30; Federal Fiscal Year is from October 1 – September 30.

Annual Budget Table for 2010 and 2011

SOURCE	FISCAL YEAR 2010	FISCAL YEAR 2011
<b>Federal Funds</b>		
Reclamation (1)		
Central Valley Project Improvement Act	\$1,351,000	\$1,500,000
San Joaquin River Restoration Fund, Friant Surcharge	\$2,440,000 (4)	\$5,600,000 (2)
San Joaquin River Restoration Fund, Capital Repayment	\$1,218,981 (4)	\$12,500,000 (3)
San Joaquin River Restoration Fund, Recovered Water Account Proceeds	\$0 (4)	\$300,000 (2)
California Department of Water Resources	\$2,000,000	\$1,500,000
Federal Appropriations	\$5,022,000	\$0
National Marine Fisheries Service	\$0	\$0
Protected Resources – salmon	\$0	\$0
<b>Federal Sub-total</b>	<b>\$12,031,981</b>	<b>\$21,400,000</b>
<b>State Funds</b>		
Dept. of Water Resources		
Proposition 1E	\$0	\$0
Proposition 13	\$227,862	\$235,752
Proposition 84	\$6,941,759	\$6,504,874
Dept. of Fish and Game		
Proposition 13	\$0	\$746,000
Proposition 84	\$4,126,995	\$8,800,000
<b>State Sub-total</b>	<b>\$11,296,616</b>	<b>\$16,286,626</b>
<b>Total</b>	<b>\$23,328,597</b>	<b>\$37,686,626</b>

1. Includes funding for FWS and NMFS participation.
2. The Fiscal Year 2011 Friant Surcharge and Recovered Water Account proceeds amounts are an estimate. The actual amounts will vary depending on water sales.
3. The estimated capital repayment for Fiscal Year 2011 represents the amount expected to be obligated in Fiscal Year 2011. Actual repayment amounts are estimated to be \$180,400,000. This amount reflects the contract executed and payments collected as of mid-December 2010.
4. The Fiscal Year 2010 amount represents funds obligated. Actual receipts collected into the San Joaquin River Restoration Fund totaled \$12,023,239.

State Fiscal Year is from July 1-June 30; Federal fiscal Year is from October 1-September 30.

# Looking Ahead: 2011 Program Activities

**T**he proposed actions in the Settlement outline how the Implementing Agencies will achieve the Restoration and Water Management Goals. As part of the Settlement, the Settling Parties developed a detailed timeline for developing and implementing Program improvements. This section highlights planned activities for 2011.



Tami Heilemann

*Selected as the next SJRRP Program Manager in March 2011, Alicia Forsythe briefs Secretary of the Interior Ken Salazar during an event at the Jensen River Ranch February 20, 2011, hosted by the SJR Parkway and Conservation Trust*

## 2011 ACTIVITIES

Overview of planned activities for 2011:

- ▶ Release Draft PEIS/R
- ▶ Continue process for experimental population designation for reintroduced Central Valley spring-run Chinook salmon consistent with Public Law 111-11 and the Endangered Species Act
- ▶ Continue development of Water Management actions and implementation of Settlement Paragraph 16(a) actions including water transfer provisions, developing Restoration Flow Guidelines, and finalizing guidelines for local assistance consistent with Public Law 111-11
- ▶ Continue Interim Flows to collect a range of information regarding river and channel characteristics, including flows, temperatures, fish needs, seepage losses, and water recirculation, recapture and reuse
- ▶ Continue with site-specific planning, engineering, environmental review, and other activities required to implement the actions called for in Paragraph 11(a) of the Settlement. These activities include:
  - Reach 4B, Eastside Bypass, and Mariposa Bypass Channel Project and Structural Improvements Project
  - Mendota Pool Bypass and Reach 2B Channel Improvements Project
  - Arroyo Canal Fish Screen and Sack Dam Fish Passage Project
  - Initiate efforts on the Salt and Mud Slough Seasonal Barriers Project
- ▶ Complete development of the Friant-Kern and Madera Canals Capability Correction Feasibility Study
- ▶ Complete development of the Friant-Kern Canal Reverse-flow Pumpback Feasibility Study
- ▶ Complete environmental documents and obtain all necessary permits to continue Interim Flow releases past October 1, 2011
- ▶ Complete fall-run Chinook salmon juvenile fish survival study



### Status of Key River Improvement Projects



**Reach 4B, Eastside Bypass, and Mariposa Bypass Channel and Structural Improvements Project**  
 Draft EIS/R – mid 2012  
 Final EIS/R and Record of Decision, Notice of Determination – mid 2013  
 Construction start target – late 2014



**Arroyo Canal Fish Screen and Sack Dam Fish Passage Project**  
 Draft EA/IS – late 2011  
 Final EA/IS – mid 2012  
 Construction – 2012-2013



**Mendota Pool Bypass and Reach 2B Channel Improvements Project**  
 Draft EIS/R – mid 2012  
 Final EIS/R – early 2013  
 Record of Decision and Notice of Determination – 2013  
 Construction start target – 2014



## PROGRAM MILESTONES

The following information highlights upcoming significant milestones and timelines in the three stages of the SJRRP.

### Stage 1

Stage 1 focuses on program-level planning and environmental review, including formulating and evaluating reasonable alternatives for accomplishing the Restoration and Water Management Goals with a focus on system-wide aspects of implementation. Stage 1 has been initiated and includes the development of a PEIS/R and the identification of significant data needs that will be completed during Stage 2.

STAGE 1	PROGRAM PLANNING	2011/2012
	Draft PEIS/R	Early 2011
	Final PEIS/R	Early 2012
	Record of Decision/Notice of Determination	2012

### Stage 2

Stage 2 commenced in October 2009 with the release of Interim Flows and will conclude in December 2013. During Stage 2, the Interim Flows program will continue to collect relevant data concerning flows, temperatures, fish needs, seepage losses, recirculation, recapture, and reuse. Stage 2 also includes the reintroduction of spring-run and fall-run Chinook salmon and the implementation of all Phase 1 channel improvements.

STAGE 2	INTERIM FLOWS, PROJECT CONSTRUCTION, AND SALMON INTRODUCTION	2009 - 2013
	Initiate Interim Flows and Monitoring Program	October 2009
	Reintroduce Chinook salmon	December 2012
	Complete all Phase 1 priority construction activities	December 2015
	Complete Final Interim Flow Study Report	June 2014



*San Joaquin River*

### Stage 3

The primary activities in Stage 3 include the release of full Restoration Flows from Friant Dam, continued implementation of the Fishery Management Plan, implementation of Phase 2 actions, and the operation and maintenance of project facilities. The full Restoration Flows shall commence no later than January 1, 2014. Stage 3 will conclude once all activities called for in the Settlement are completed; however, ongoing operations and maintenance of facilities and structures will continue indefinitely.



*SJRRP Engineer Dave Mooney talks with Reggie Hill, Lower San Joaquin Levee District, at a public scoping meeting in December 2010*

STAGE 3	FULL RESTORATION FLOWS AND CONTINUED OPERATION	2014 - 2025
	Restoration Flow Release Schedules	Annual
	Restoration Goal Progress Reports	Annual
	Recovered Water Account Progress Reports	Annual
	Restoration Flow Monitoring Reports	Annual

### PUBLIC INVOLVEMENT AND OUTREACH

The SJRRP anticipates that the Draft Program EIS/R will be available for public review in April 2011. As part of the public review process, a series of meetings will be held to gather comments on the document and provide additional information about the Program. Agencies, stakeholders and the public have 60 days after the document’s release to provide comments, accepted in writing via U.S. mail, by fax, and by email as well as verbally at the public meetings. Once the comment period closes, the comments received will be reviewed, compiled, and responded to in the Final PEIS/R, expected to be available in 2012.

All other Program public involvement opportunities and avenues as described earlier in this report will continue to be available to anyone interested in learning about or participating in the SJRRP.



*SJRRP Natural Resource Specialist Michelle Banonis and DWR Environmental Program Manager Karen Dulik talk with public participants at a public scoping meeting in December 2010*





# SAN JOAQUIN RIVER RESTORATION PROGRAM



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