

Draft CVPIA Fiscal Year 2010 Annual Work Plan

October 1, 2009

Program Title

Refuge Facilities Construction Program and San Joaquin Basin Action Plan
CVPIA Section 3406(d)(5)

Responsible Entities

Staff Name	Agency	Role
Chuck Jachens	USBR	Program/Project Manager

Program Goals and Objectives for FY 2010

- The objective of the Refuge Facilities Construction Program (RFCP) and the San Joaquin Basin Action Plan (SJBAP) is to meet the mandate of Section 3406(d)(5) of the CVPIA, providing the necessary infrastructure to support long-term delivery of firm, reliable water supplies from existing Central Valley Project (CVP) or State Water Project (SWP) facilities to the boundary of specific State and Federal refuges in the Central Valley. The need to upgrade conveyance facilities is a result of capacity constraints in existing delivery systems and/or the lack of existing systems. In some cases, conveyance can be provided through wheeling agreements with local water districts with improvements to their facilities. In other cases, new and independent facilities are needed.
- The goal of these programs is have the necessary facilities in place to deliver full Level 4 water supplies. A full Level 4 water supply will support optimum wildlife habitat over a broad range of species including targeted Threatened and Endangered species.

Source Documents to CVPIA Refuge Conveyance Program:

- Report on Refuge Water Supply Investigations, Central Valley Hydrologic Basin, California (3/1989)
- San Joaquin Basin Action Plan/Kesterson Mitigation Plan, Merced County, California (12/1989)
- Conveyance of Refuge Water Supply Project, East Sacramento Valley Study Area – Final EA/IS and Proposed FONSI/Negative Declaration (12/1997)
- Conveyance of Refuge Water Supply Project, West Sacramento Valley Study Area – Final EA/IS and Proposed FONSI/Negative Declaration (12/1997)
- Conveyance of Refuge Water Supply, South San Joaquin Valley Study Area (Kern and Pixley National Wildlife Refuges) – Final EA/IS (10/2003)
- Conveyance of Refuge Water Supply, South San Joaquin Valley Study Area – Mendota Wildlife Area – Final EA/IS (05/2008)
- Conveyance of Refuge Water Supplies to the East Bear Creek Unit of the San Luis National Wildlife Refuge – Final E.A. (2/2006)
- Refuge Water Supply Conveyance Alternatives Refinement Memorandum (East and West

- Sacramento Valley) (5/1995)
- Refuge Water Supply Long-Term Water Supply Agreements – Sacramento River Basin – Final EA/IS (1/2001)
- Refuge Water Supply Long-Term Water Supply Agreements – Tulare Lake Basin – Final EA (1/2001)
- Refuge Water Supply Long-Term Water Supply Agreements, San Joaquin River Basin – Final EA/IS (1/2001)
- Report of Recommended Alternatives – Refuge Water Supply and San Joaquin Basin Action Plan Lands (4/1995)
- San Joaquin Basin Action Plan and North Grasslands Area – Conveyance Facilities – Final EA/IS (12/1997)

Status of the Program

The RFCP is a long-term program covering eight refuges from the National Wildlife Refuge System and the State of California Wildlife Management Areas in the Central Valley hydrologic basin of California. Three of these refuges are located in the West Sacramento Valley area, extending west from the Sacramento River to the eastern edge of the Coast Range in Yolo, Tehama, Colusa, and Glenn counties. These three refuges are the Sacramento National Wildlife Refuge located about five miles south of the City of Willows; the Delevan National Wildlife Refuge located about seven miles east of the City of Maxwell in Colusa County and west of the Sacramento River; and the Colusa National Wildlife Refuge located about one-half mile southwest of the City of Colusa in Colusa County. Two refuges are located in the East Sacramento Valley area, extending from the Sacramento River east to the western edge of the Sierra Nevada Mountain Range, in Butte, Yuba, and Sutter counties. Sutter National Wildlife Refuge is located within the Sutter Bypass in Sutter County, eight miles southwest of Yuba City and the Gray Lodge Wildlife Area is located in Sutter and Butte counties about ten miles southwest of the City of Gridley. The Kern and Pixley National Wildlife Refuges are located in South San Joaquin Valley in Kern and Tulare counties, respectively. The last refuge, Mendota Wildlife Management Area, is located southwest of the City of Mendota, in Fresno County.

The San Joaquin Basin Action Plan Final EA/IS was completed in 1997, the Implementation Plan was completed in April 1998, and conveyance agreements were completed in summer 1998.

USBR is currently administering the cooperative agreements entered into with the San Luis Canal Company, Grassland Water District, and Central California Irrigation District for conveyance of refuge water supply, including construction and rehabilitation of needed facilities to meet the needs of the refuges within San Joaquin Basin Action Plan area. Reclamation has completed design and specifications for all major components of the implementation plan. Construction has either been completed or is in the final stages.

As of 2009, Reclamation has the physical ability to deliver Full Level 4 supplies to 14 of the 19 CVPIA refuges. The Refuges Facilities Construction Program and the SJBAP identified 46 construction projects or actions that must be completed to provide Full Level 4 capacity to all refuges. To date, the program has completed 31 of the 46 actions or projects identified in the environmental documents and related design and specification documents.

This work plan describes specific objectives related to planning, design and implementation to modify existing facilities and/or construct new facilities to support refuge water deliveries as described in the Implementation section below. This work plan is a living document and is typically modified year-to-year. However, with limited restoration funding relative to significantly higher construction costs and difficult resource issues needed to be solved, Reclamation may amend this work plan, in coordination with appropriate stakeholders, at any time based on changing Reclamation priorities and funding levels. The general components of the Program for each refuge include:

Program/Project Management

Program/Project management activities include project integration and coordination activities with the associated Refuge Water Conveyance (Wheeling) and Refuge Water Acquisition Programs. The objective of this activity is to ensure continuity of methodologies and approach towards executing and achieving Program objectives. Interagency coordination activities are included in this element as well as budget formulation, tracking, and management activities. Additional activities included in Program/Project Management are administrative coordination tasks for planning, design, and construction efforts between agencies and water purveyors (water districts).

In the past, each program (RFCP and SJBAPL) had a near full time project manager assigned to them. In 2008, the programs were combined and based on the work load, a full time project manager with assistance from Reclamation's Division of Resources Management (MP400) and Mid-Pacific Construction Office (MPCO) has met the needs of both programs.

Planning Activities

Planning activities include but are not limited to alternative identification, analyses and selection, environmental compliance, compliance with other Federal and State laws, public involvement and outreach, conceptual design development, and participation in and completion of negotiations with water districts regarding construction cooperative agreements. Although, negotiations of the construction cooperative agreement is identified as an activity that should be complete under this phase, it should be accomplished by a Reclamation functional area with the requisite expertise and would not normally be led by the Reclamation Planning Division.

Implementation

Administrative activities of the RFCP and SJBAP project manager during implementation are acquisition and budget management. Funding of Refuge facilities construction agreements is included in this task, as appropriate.

MPCO will provide primary support for cooperative agreement implementation, development, and/or administration of detailed design, permit acquisition, and construction contracts, as applicable. Implementation of agreement activities may also include and are not limited to construction contract award, facilities construction activities, construction inspection and management, and coordination as appropriate with other agencies regarding permit requirements.

Accomplishments to Date:

- Completion of the facilities construction agreement with Glenn-Colusa Irrigation district which provided approximately 127 facilities, securing conveyance capacity for transporting water supplies to the West Sacramento Valley Study Area (defined as Sacramento, Delevan, and Colusa National Wildlife Refuges (NWR)). These refuges are capable of receiving their full Level 4 water supplies.
- Implementation and completion of the Refuge facilities construction agreement with Buena Vista Water Storage District which allowed for the completion of designs, acquisition of permits, and construction activities providing the infrastructure to support conveyance of quantities of water to Kern NWR. Kern NWR is now capable of receiving full Level 4 water supplies.
- Completed Mendota Wildlife Area (WA) final Environmental Assessment (EA)/Impact Statement (IS), May 2008. The Final EA/IS emphasized the potential actions to provide reliable Full Level 4 water supplies to the Mendota Wildlife Area (WA).
- Planning and environmental compliance documentation has been completed for the East Sacramento Valley Study Area (defined as Sutter NWR and Gray Lodge WA, and South San Joaquin Valley Study Area (defined as Kern and Pixley NWRs).
- Completed two HEC-RAS model alternatives for the conveyance facilities of the Biggs-West Gridley Water District (BWGWD). The alternatives study the extent of necessary improvements to conveyance system to satisfy the delivery of full Level 4 water supplies to Gray Lodge WA
- Completion of all the facilities scheduled in the San Joaquin Basin Action Plan Implementation Plan. One addition facility, East Bear Phase II, is under reconsideration.
- Completion of major construction and preliminary testing of the Bear Creek Phase I Pumping Plant & Pipeline, San Luis NWR, Los Banos, CA.

FY 2009 Accomplishments

- Completion of the draft Design Data Study for conveyance facilities of the Biggs-West Gridley Water District (BWGWD) for conveyance of Refuge water supplies to Gray Lodge WA, covering canal water level study, flow measurement study, seepage study, proposed system improvements, and cost estimates.
- Reclamation completed the development of the HEC-RAS model to provide the preliminary design for the composite (selected) alternative to convey level 4 water supplies through the BWGWD system.
- Reclamation developed internal draft acquisition plan for BWGWD to contract final design services. Reclamation continued to evaluate design-build options and construction sequencing plans.
- Total construction funding obligated to date is \$16,600,000 under the BWGWD cooperative agreement.
- Completed a draft Statement of Work for the design Request For Proposal (RFP) issuance for BWGWD board approval.
- Issued a one year extension for continued monitoring of canal water levels and flows. This data will be used to refine the HEC-RAS model as final design commences in late 2009.

- Continued testing of the Bear Creek Phase I Pumping Plant & Pipeline, San Luis NWR, Los Banos, CA. Revised operating procedures were implemented and tested.
- Addressing issues associated with the Acquisition process pertaining to the design and construction of an automated trash rack on the Newman Canal to provide optimum water deliveries to China Island.

FY 2010 Activities

- 1.) Activities to support Water Deliveries to Gray Lodge. Construction is planned 2011 -2013.
 - a) Implementation of the Refuge Facilities Construction Agreement with BWGWD will continue. (HIGH Priority)
 - b) Real Estate action plans for the BWGWD system will be developed for the necessary permits, right of ways, and acquisition of lands affect by the temporary construction activities and permanent irrigation district facilities. (HIGH Priority)
 - c) Finalize acquisition plan for BWGWD to contract final design services. Evaluate design-build options and construction sequencing plans. (HIGH Priority)
 - d) Locate and budget \$12,530,000 in construction funding for the BWGWD cooperative agreement to cover increases in the project cost estimates. (HIGH Priority)
- 2.) Continue planning activities to determine interest to develop cooperative agreements under the San Joaquin Basin Action Plan for the Phase II project. The project may include the Island C Pumping Plant and river crossing on the East Bear Unit of the San Luis NWR. (Low Priority)
- 3.) Complete facilities for optimum delivery to China Island. Design and construction automated trash rack on Newman Canal. (Medium Priority)

Three Year Budget Plan - RFCP

The long-term Project Facilities Construction Project objective is to provide infrastructure to support delivery of long-term, firm, reliable water deliveries to specific Federal and State wildlife refuges located within the Central Valley hydrologic basin of California. The refuges are Sutter and Pixley National Wildlife refuges, and Mendota and Gray Lodge State Wildlife Areas. Budget will support work for Gray Lodge to fully fund final design and construction of the BWGWD project. Continued support to find feasible solutions to solve shortage at the Sutter and Pixley National Wildlife refuges. Issues on the San Joaquin River will continue to delay progress to assist Mendota State Wildlife Area.

Three Year Budget Plan - SJBAP

The long-term Project Facilities Construction Project objective is to provide infrastructure to support delivery of long-term, firm, reliable water deliveries to specific Federal and State wildlife refuges located within the Central Valley hydrologic basin of California. The last proposed project will be Phase II for East Bear. These budgets will support the review of the final design and funding the construction of Phase II.

Table 1A. FY 2010 Tasks, Costs, Schedules and Deliverables – Refuge Facilities Construction Program

Task or Subtask Number	Name of Activity	FTE	Description of Activity	Completion Date	Restoration Fund Anticipated	Water and Related Resources Anticipated	State or Other Sources Anticipated	Total All Sources Anticipated
1.1	Program Management							
1.1.1		0.45	MP700. Plan and construct facilities to convey full Level 4 water supplies as per CVPIA (HIGH Priority)	9/30/2010	\$101,000			\$101,000
	<u>Subtotal Costs</u>	<u>0.45</u>			\$101,000	\$0	\$0	\$101,000
1.3	Technical Support							
1.3.1		1.25	Willows Construction Office, Design and Construction Management and Planning (Divided between 4-5 staff members of MPCO Staff) (HIGH Priority)	9/30/2010	\$295,000			\$295,000
1.3.2		0.1	Acquisitions Staff, Regional Office (HIGH Priority)	9/30/2010	\$15,000			\$15,000
1.3.3		0.5	TSC technical support (Medium Priority)	9/30/2010	\$116,000			\$116,000
1.3.4		0.12	F&WS R.O. RFCP support High Priority)	9/30/2010	\$25,000			\$25,000
1.3.5		0.06	F&WS R.O. CVPIA Implementation Div. Chief (High Priority)	9/30/2010	\$13,000			\$13,000
	<u>Subtotal Costs</u>	<u>2.03</u>			\$464,000	\$0	\$0	\$464,000
1.9	Environmental Compliance							
1.9.1			Finalize environmental work (BA,BO, and necessary permits) associated with the BWGWD project. Performed or administered by MP150	9/30/2010	\$10,000			\$10,000
1.9.2			Finalize environmental work (BA,BO, and necessary permits) associated with the Mendota Wildlife area project. Performed or administered by MP150	9/30/2010	\$20,000			\$20,000
	<u>Subtotal Costs</u>				\$30,000	\$0	\$0	\$30,000
1.11	Construction							
1.11.1			BWGWD Construction Cooperative Agreement funding	9/30/2010	\$0			\$0
	<u>Subtotal Costs</u>				\$0	\$0	\$0	\$0
1.14	Other							
1.14.1	Misc.		Non-Labor; travel, supplies, postage, equipment, etc. (Medium Priority)	9/30/2010	\$10,000			\$10,000
	<u>Subtotal Costs</u>				\$10,000	\$0	\$0	\$10,000
	Total Costs	2.48			\$605,000	\$0	\$0	\$605,000
	Reclamation Total	2.30			\$567,000	\$0	\$0	\$567,000
	Service Total	0.18			\$38,000	\$0	\$0	\$38,000

Task or Subtask Number	Name of Activity	FTE	Description of Activity	Completion Date	Restoration Fund Anticipated	Water and Related Resources Anticipated	State or Other Sources Anticipated	Total All Sources Anticipated
	Unfunded Needs							
1.11.1A	Construction		BWGWD Construction Cooperative Agreement funding shortfall under new cost estimates from Design Data Report (HIGH Priority)	9/30/2013	\$12,100,000	\$0	\$0	\$12,100,000
	Total Unfunded Need				\$12,100,000	\$0	\$0	\$12,100,000

Table 1B. FY 2010 Tasks, Costs, Schedules and Deliverables – San Joaquin Basin Action Plan

Task or Subtask Number	Name of Activity	FTE	Description of Activity	Completion Date	Restoration Fund Anticipated	Water and Related Resources Anticipated	State or Other Sources Anticipated	Total All Sources Anticipated
1.1	Program Management							
1.1.1		0.5	MP700. Plan and construct facilities to convey full Level 4 water supplies as per CVPIA (HIGH Priority)	9/30/2010		\$116,000		\$116,000
	Subtotal Costs	0.5			\$0	\$116,000	\$0	\$116,000
1.3	Technical Support							
1.3.1		1.0	Willows Construction Office, Design and Construction Management and Planning (Divided between 4-5 staff members of MPCO Staff) (HIGH Priority)	9/30/2010	\$195,000	\$35,000		\$230,000
1.3.2		0.1	Acquisitions Staff, Regional Office (HIGH Priority)	9/30/2010	\$15,000	\$15,000		\$30,000
1.3.3		0.75	TSC technical support (Medium Priority)	9/30/2010		\$174,000		\$174,000
	Subtotal Costs	1.85			\$210,000	\$224,000	\$0	\$434,000
1.11	Construction							
1.11.1			East Bear Phase I - Completion of final construction activities for the Bear Creek Pumping Plant & Pipeline, San Luis NWR, Los Banos, CA (HIGH Priority)	9/30/2010	\$140,000			\$140,000
	Subtotal Costs				\$140,000	\$0	\$0	\$140,000
1.14	Other							
1.14.1	Misc.		Non-Labor; travel, supplies, postage, equipment, etc. (Medium Priority)	9/30/2010		\$16,000		\$16,000
	Subtotal Costs				\$0	\$16,000	\$0	\$16,000
	Total Costs	2.35			\$350,000	\$356,000	\$0	\$706,000
	Reclamation Total	2.35			\$350,000	\$356,000	\$0	\$706,000
	Service Total				\$0	\$0	\$0	\$0

Table 1C. FY 2010 Tasks, Costs, Schedules and Deliverables – Summary of RFCP and SJBAP

Task or Subtask Number	Name of Activity	FTE	Description of Activity	Completion Date	Restoration Fund Anticipated	Water and Related Resources Anticipated	State or Other Sources Anticipated	Total All Sources Anticipated
1.1	Program Management							
	<u>Subtotal Costs</u>	0.95			\$101,000	\$116,000	\$0	\$217,000
1.3	Technical Support							
	<u>Subtotal Costs</u>	3.85			\$674,000	\$224,000	\$0	\$898,000
1.9	Environmental Compliance							
	<u>Subtotal Costs</u>				\$30,000	\$0	\$0	\$30,000
1.11	Construction							
	<u>Subtotal Costs</u>				\$140,000	\$0	\$0	\$140,000
1.14	Other - Describe							
	<u>Subtotal Costs</u>				\$10,000	\$16,000	\$0	\$26,000
	Total Costs	4.80			\$955,000	\$356,000	\$0	\$1,311,000
	Reclamation Total	4.65			\$917,000	\$356,000	\$0	\$1,273,000
	Service Total	0.15			\$38,000	\$0	\$0	\$38,000
	Unfunded Needs							
1.11.1A	Total Unfunded Need		BWGWD Construction Cooperative Agreement funding shortfall under new cost estimates from Design Data Report (HIGH Priority)	9/30/2013	\$12,100,000	\$0	\$0	\$12,100,000

Table 2A. Budget Breakout - Refuge Facilities Const. Program

Task	Agency	FTE	LABOR		CONTRACTS		USBR Only Misc. Costs	Total Costs
			Direct Salary, Benefits, and Admin. Costs ^{1/}	FWS Only Overhead Assess: 22% of Direct Salary and Benefits Costs ^{2/}	Contract, Grant, and Agreement Costs	FWS Only Overhead Assess: 6% Contract Costs ^{2/}		
1.1 Program Management	FWS		\$0	\$0	\$0	\$0		\$0
	USBR	0.45	\$101,000		\$0		\$0	\$1016,000
1.3 Technical Support	FWS	0.18	\$31,148	\$6,852	\$0	\$0		\$38,000
	USBR	1.85	\$426,000		\$0		\$0	\$426,000
1.9 Environmental Compliance	FWS		\$0	\$0	\$0	\$0		\$0
	USBR		\$0		\$30,000		\$0	\$30,000
1.11 Construction	FWS		\$0	\$0	\$0	\$0		\$0
	USBR		\$0		\$0		\$0	\$0
1.14 Other	FWS		\$0	\$0	\$0	\$0		\$0
	USBR		\$0		\$0		\$10,000	\$10,000
Administrative Total - FWS			\$31,148	\$6,852		\$0		\$38,000
Contracts, Grants and Agreements Total - FWS					\$0			\$0
FWS Total Costs		0.18	\$31,148	\$6,852	\$0	\$0		\$38,000
Administrative Total - USBR			\$527,000				\$10,000	\$537,000
Contracts, Grants and Agreements Total - USBR					\$30,000			\$30,000
USBR Total Costs		2.30	\$527,000		\$30,000		\$10,000	\$567,000
TOTAL ALL		2.48	\$558,148	\$6,852	\$30,000	\$0	\$10,000	\$605,000

1/ For FWS only: The FWS develops a bio-rate which is the combination of both the salary/benefit and related administrative costs. The FWS simple definition reads, "It is an average \$\$ rate that is developed and used for estimating project costs. It incorporates a biologist's salary and benefits, supervisory, clerical and biologist support costs and all other office operating costs related to completing project tasks.

2/ FWS assesses an O/H Burden charge of 6% on all contracts/agreements related to budget object codes starting with 25, 41, and 32, and a charge of 22% on costs under all other budget object codes.

Table 2B. Budget Breakout - SJBAP Program

Task	Agency	FTE	LABOR		CONTRACTS		USBR Only Misc. Costs	Total Costs
			Direct Salary, Benefits, and Admin Costs ^{1/}	FWS Only Overhead Assess: 22% of Direct Salary and Benefits Costs ^{2/}	Contract, Grant, and Agreement Costs	FWS Only Overhead Assess: 6% Contract Costs ^{2/}		
1.1 Program Management	FWS		\$0	\$0	\$0	\$0		\$0
	USBR	0.5	\$116,000		\$0		\$0	\$116,000
1.3 Technical Support	FWS		\$0	\$0	\$0	\$0		\$0
	USBR	1.85	\$434,000		\$0		\$0	\$434,000
1.11 Construction	FWS		\$0	\$0	\$0	\$0		\$0
	USBR		\$0		\$140,000		\$0	\$140,000
1.14 Other	FWS		\$0	\$0	\$0	\$0		\$0
	USBR		\$0		\$0		\$16,000	\$16,000
Administrative Total - FWS			\$0	\$0		\$0		\$0
Contracts, Grants and Agreements Total - FWS					\$0			\$0
FWS Total Costs		0	\$0	\$0	\$0	\$0		\$0
Administrative Total - USBR			\$550,000				\$16,000	\$566,000
Contracts, Grants and Agreements Total - USBR					\$140,000			\$140,000
USBR Total Costs		2.75	\$550,000		\$140,000		\$16,000	\$706,000
TOTAL ALL		2.75	\$550,000	\$0	\$140,000	\$0	\$16,000	\$706,000

1/ For FWS only: The FWS develops a bio-rate which is the combination of both the salary/benefit and related administrative costs. The FWS simple definition reads, "It is an average \$\$ rate that is developed and used for estimating project costs. It incorporates a biologist's salary and benefits, supervisory, clerical and biologist support costs and all other office operating costs related to completing project tasks.

2/ FWS assesses an O/H Burden charge of 6% on all contracts/agreements related to budget object codes starting with 25, 41, and 32, and a charge of 22% on costs under all other budget object codes.

**Table 3A. Three-Year Budget Plan FY 2011 – 2013
Refuge Facilities Construction Program**

(\$ amounts in thousands)

Year	Description of Activities	Requested RF Funding	Requested W&RR Funding
2011	Refuge Facilities construction program – Reclamation labor, engineering, and administrative support for Facilities Construction activities at Biggs-West-Griddley Water District (Gray Lodge Level 4 water deliveries)	\$1,800	\$0
2012	Refuge Facilities construction program - Refuge Facilities construction program – Reclamation labor, engineering, and administrative support for Facilities Construction activities at Biggs-West-Griddley Water District (Gray Lodge Level 4 water deliveries) Reinitiatel studies to provide facilities to deliver Pixley Refuge with level 4 water supplies	\$2,800	\$0
2013	Refuge Facilities construction program - Refuge Facilities construction program – Reclamation labor, engineering, and administrative support for Facilities Construction activities at Biggs-West-Griddley Water District (Gray Lodge Level 4 water deliveries) Continue studies to provide facilities to deliver Pixley Refuge with level 4 water supplies	\$2,000	\$0

Table 3B. Three-Year Budget Plan FY 2011 – 2013 SJBAP

(\$ amounts in thousands)

Year	Description of Activities	Requested RF Funding	Requested W&RR Funding
2011	San Joaquin Basin Action Plan – Reclamation engineering costs to update Phase II of East Bear Project for bid solicitations. Includes Reclamation labor and administrative costs.	\$800	\$341
2012	San Joaquin Basin Action Plan – Initial Construction funding for Phase II of East Bear Project. Includes Reclamation labor and administrative costs.	\$2,800	\$341
2013	San Joaquin Basin Action Plan - Primary Construction funding for Phase II of East Bear Project. Includes Reclamation labor and administrative costs.	\$9,000	\$341

Note: The FY 2011 – 2013 Budget Plan provides estimates of capability only. The amounts are displayed are those that might be reasonably appropriated each year. These figures do not reflect the future Congressional Appropriations process. All of these estimates will be adjusted annually as RF collections are realized.