

Draft CVPIA Fiscal Year 2013 Annual Work Plan

July 17, 2012

Program Title:

Refuge Water Supply Program - **Facilities Construction Component** (CVPIA Section 3406 [d] [5])

Responsible Entities:

Staff Name	Agency	Role
<i>Tim Rust</i>	<i>Reclamation</i>	<i>Lead</i>
<i>Dale Garrison</i>	<i>Service</i>	<i>Co-Lead</i>
<i>Brian Cary</i>	<i>CDFG</i>	<i>State Partner</i>

Overview of Refuge Water Supply Program

Reclamation and the U.S. Fish & Wildlife Service (Service) have primary responsibility for the oversight and implementation of all aspects of the Refuge Water Supply Program (RWSP), which consists of three major components: water acquisition, water conveyance, and facilities construction. These agencies serve as the RWSP's primary contacts; represent the RWSP at various internal and external meetings; prepare and make presentations on the RWSP; and provide guidance and oversight to the technical support personnel on contracting, budget, and environmental issues.

The California Department of Fish and Game (CDFG), as the State partner, oversees state wildlife areas, and provides guidance and technical assistance on costs share efforts, pursuant to CVPIA. In addition, Reclamation collaborates with the Grassland Water District (GWD) in the acquisition and delivery of water supplies to the Grassland Resource Conservation District (GRCD) wetlands. Reclamation, Service, DFG, and GWD, working collaboratively together, plan and implement RWSP activities to meet wildlife refuge water supply needs, in accordance with CVPIA.

The RWSP's over arching goal is to ensure that all 19 CVPIA identified wetland habitat areas, hereinafter referred to as "refuges", annually receive water of specified quantity, of suitable flow rate and timing, and suitable quality to support their wetland and aquatic environments. These wetland areas include 13 National Wildlife Refuges (NWR), 5 State Wildlife Areas (SWA), and 1 private wetland area (GRCD).

The RWSP's two water types are defined as Level 2 (L2) water and Incremental Level 4 (IL4) water. L 2 is the amount of water required for minimum wetlands and wildlife habitat management based on historic average annual deliveries before 1989. Annually, Reclamation is required to provide 422,251 acre-feet of L2 water supplies.

IL4 water is the difference between L2 and Full Level 4 water supplies; it equals 133,264 AF. Each year, the RWSP strives to provide as much IL4 water as possible. IL4 water supplies are acquired through voluntary measures such as water conservation, conjunctive use, purchase, lease, donation, or similar activities.

Full Level 4 is the total annual amount of water identified for each refuge in CVPIA as required for optimum wetland and wildlife habitat development and management. The Full Level 4 water delivery target for the 19 refuges is 555,515 AF and is satisfied when both L2 and IL4 water targets are met in full.

Each year between February and March, Reclamation provides the Interagency Refuge Water Management Team (IRWMT), which is comprised of representatives from Reclamation, the Service, CDFG, GWD, and the Central Valley Joint Venture, with an initial projection of anticipated Incremental Level 4 water purchases for that contract year. The IRWMT determines the allocation of the projected Incremental Level 4 supplies to the refuges. Concurrent with this process, the three refuge managing agencies (Service, CDFG, and GWD) develop their initial water delivery schedules for each refuge and submit them to Reclamation by March 1.

The RWSP strives to diversify its water sources. For example, the RWSP pursues groundwater projects in partnership with local water districts because groundwater does not require external conveyance if the source can be located at or near a refuge. The lower cost of groundwater is also an advantage, although downsides include groundwater of poorer quality in some locations, particularly in the San Joaquin Valley; the threat of aquifer depletion and land subsidence. Groundwater quality is monitored for toxins, pollutants and salinity so as not to degrade the general quality of water on the refuges. Several refuges rely at least in part on groundwater supplies, including Volta and Gray Lodge SWAs, Merced and Pixley NWRs, and the GRCD.

Numerous biological benefits have resulted from a reliable year-round water supply that adequately meets the delivery schedule for wetland management on CVPIA refuges. Wildlife refuges are capable of providing habitat (such as swamp timothy and water grass) supporting migrant waterfowl and shorebirds; resident wildlife; and the recovery of special status species such as the giant garter snake, and tricolored blackbirds. In addition, RWSP water supplies allow refuge managers to “flush” excess salts from wetlands while improving soil quality.

RWSP Facilities Construction Component's Goals and Objectives for FY 2013

The Facilities Construction Component's (FCC) overarching goal is to meet the mandate of Section 3406(d)(5) of the CVPIA, providing the necessary infrastructure with sufficient conveyance capacity to support long-term delivery of firm, reliable water supplies to the boundary of the 19 CVPIA wetland areas identified in the 1989 Report on Refuge Water Supply Investigations (1989 Report) and the 1989 San Joaquin Basin Action Plan/Kesterson Mitigation Plan (1989 Plans). The need to upgrade conveyance facilities is a result of capacity constraints in existing delivery systems and/or the lack of existing systems.

To meet the need stated above, the FCC's primary objective is to have the necessary facilities in place for the delivery of full Level 4 water supplies to all CVPIA refuges, meeting their timing and scheduling requirements. A full Level 4 water supply will support optimum wildlife habitat over a broad range of species including targeted Threatened and Endangered species.

Status of RWSP-Facilities Construction Component

For FY 2013, FCC's activities will focus on certain refuges in the 1989 Report, which covers eight of the 19 CVPIA refuges. Five of these refuges are located in the Sacramento Valley (Sacramento, Delevan, Sutter, and Colusa NWRs; Grey Lodge SWA), and three refuges are in the San Joaquin Valley (Kern and Pixley NWRs; Mendota SWA).

For refuges in the 1989 Report, the FCC had identified 26 construction projects and/or major actions necessary to provide needed capacity for the delivery of full Level 4 surface supplies to these refuges. As of FY2012, construction has been completed on 14 of the 26 actions (projects). The completed projects resulted in conveyance capacity to accommodate delivery of full Level 4 water supplies to: Sacramento NWR – 50,000 acre-feet (AF); Delevan NWR – 30,000 AF; Colusa NWR – 25,000 AF; and Kern NWR – 25,000 AF. The refuges still requiring conveyance facility improvements are: Gray Lodge and Mendota Wildlife Areas, and Sutter and Pixley NWRs.

Presently, water conveyance facility improvements are being designed for the Biggs West Gridley Water District (BWGWD), which conveys refuge water to the Gray Lodge SWA. Construction activities at BWGWD are expected to begin this fiscal year and continue in FY 2013.

Adaptive Management

FCC's activities include project integration and coordination with the RWSP Water Conveyance (Wheeling) and Water Acquisition components. The objective of this activity is to ensure continuity of methodologies and approach towards executing and achieving RWSP objectives. Interagency coordination activities are included in this element as well as budget formulation, tracking, and management activities. Additional activities are administrative coordination tasks for planning, design, and construction efforts between agencies and water districts. Reclamation Mid-Pacific Construction Office (MPCO) provides administration of design and construction contracts/agreements including construction contract award, facilities construction activities, construction inspection and management, and coordination as appropriate with other agencies regarding permit requirements.

In addition to overseeing and coordinating conveyance infrastructure design and construction activities, the FCC is ever responding to service requests by RWSP partners regarding conveyance infrastructure operational problems and issues. The FCC proactively adapts to such requests and provides Reclamation Regional assistance so long as the problem is viewed as a one-time-only "capital cost" matter and not an ongoing "operation & maintenance cost" matter. For example, in FYs 2011 and 12, vandalism (stolen copper wire) occurred regarding groundwater pumping wells at a couple of the CVPIA refuges. In such instances, the FCC

provided assistance to help the respective RWSP partner restore groundwater pumping operations and install security control measures. Similar instances of this nature may occur in FY 2013, and the FCC would provide assistance on an as needed basis, subject to the availability of federal funds.

Table 1. FY2013 Proposed Activities and Costs

CVPIA Section 3406 (d)(5) (const), Refuge Facility Construction/Refuge San Joaquin Basin Action Plan

	3406 (d)(5) (const) Requested Funding for Fiscal Year 2013				
	Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources
Total Funding	\$6,200,000	\$0	\$0	\$26,414	\$6,226,414
Reclamation	\$6,167,366	\$0			\$6,167,366
Service	\$32,634	\$0			\$32,634
CA DFG			\$0	\$26,414	\$26,414
CA DWR			\$0	\$0	\$0

1.1 Program Management												
AWP Activity Number	Activity Name	Activity Description	Agency		Program Performance Goal	FY2013 Projected Performance	3406 (d)(5) (const) Requested Funding for Fiscal Year 2013					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
1.1.1	RWSP Program Lead	Provides Reclamation oversight for all aspects of the Facilities Construction Component (FCC) of the Refuge Water Supply Program (RWSP). Serves as a primary BOR contact and coordinator; represents the FCC at various internal and external meetings. Prepares and makes presentations on the FCC. Provides guidance and oversight to the technical support personnel on contracting, budget, and environmental issues. Has primary responsibility for FCC long and short-term strategy. (CA H37-0214-2020-0019100)	BOR	0.15			\$33,041					\$33,041
1.1.2	RWSP Program Co-Lead	Provides Service oversight for all aspects of the FCC of the RWSP. Serves as a primary FWS contact and coordinator; represents the FCC at various internal and external meetings. Prepares and makes presentations on the FCC. Provides guidance and oversight to technical support personnel on contracting, budget, and environmental issues. Shares responsibility for FCC long and short-term strategy with Lead. (CA H37-0214-2020-0019100)	FWS	0.10			\$21,756					\$21,756
							Sub-Total for Program Management, FY2013					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$54,797	\$0	\$0	\$0	\$54,797
							<i>Reclamation</i>	\$33,041	\$0			\$33,041
							<i>Service</i>	\$21,756	\$0			\$21,756
							<i>CA DFG</i>			\$0	\$0	\$0
							<i>CA DWR</i>			\$0	\$0	\$0

1.2		Program Support										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2013 Projected Performance	3406 (d)(5) (const) Requested Funding for Fiscal Year 2013					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
1.2.1	Facilities Construction Component Manager	Manages, provides oversight, and administers construction projects to provide needed conveyance capacity for CVPIA refuges. Oversees planning and construction of facilities to convey full Level 4 refuge water supplies per CVPIA. (CA H37-0214-2020-0019100)	BOR	0.60			\$114,064				\$114,064	
1.2.2	FWS Supervision Support	Provide coordination support for CVPA planning, implementation and reporting requirements. (CA H37-0214-2020-0019100)	FWS	0.05			\$10,878				\$10,878	
1.2.3	DFG State Coordinator	Represents the Department of Fish and Game (DFG) at various meetings and provides guidance and input to the RWSP related to DFG on contracting, budget, operations and environmental issues.	CDFG	0.17						\$26,414	\$26,414	
							Sub-Total for Program Support, FY2013					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$124,942	\$0	\$0	\$26,414	\$151,356
							<i>Reclamation Service</i>	\$114,064	\$0			\$114,064
							<i>CA DFG</i>	\$10,878	\$0			\$10,878
									\$0	\$26,414		\$26,414
							<i>CA DWR</i>			\$0	\$0	\$0

1.3		Technical Support									
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2013 Projected Performance	3406 (d)(5) (const) Requested Funding for Fiscal Year 2013				
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources
1.3.1	Environmental Compliance	Provides environmental support for Volta, EBC, Pixley and Gray Lodge NWR. (CA H37-0214-2020-0019100)	BOR	0.10			\$15,596				\$15,596
1.3.2	Environmental Support	Provides environmental support for the Facilities Construction Program. (CA H37-0214-2020-0019100)	BOR	0.10			\$18,522				\$18,522
1.3.3	Administrative Support	Provides clerical support for the Facilities Construction Program. (CA H37-0214-2020-0019100)	BOR	0.07			\$4,486				\$4,486
1.3.4	Supervisory Support	Provides supervisory role for the Facilities Construction Program. (CA H37-0214-2020-0019100)	BOR	0.07			\$15,233				\$15,233
1.3.5	Acquisitions Support	Develop acquisition, service, and construction contracts; process contract fund obligations, payments, and modifications. Lump sum to cover contracting cost. (CA H37-0214-2020-0019100)	BOR	1.00			\$13,209				\$13,209
							Sub-Total for Technical Support, FY2013				
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources
							\$67,046	\$0	\$0	\$0	\$67,046
							<i>Reclamation</i>	\$67,046	\$0		\$67,046
							<i>Service</i>	\$0	\$0		\$0
							<i>CA DFG</i>			\$0	\$0
							<i>CA DWR</i>			\$0	\$0

2.7		Construction/Implementation										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2013 Projected Performance	3406 (d)(5) (const) Requested Funding for Fiscal Year 2013					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
2.7.1	Gray Lodge-Biggs West Gridley WD Conveyance Infrastructure - Construction mgmt	Project manager will work full time overseeing all components on the BWGWD project. Construction will initiate in September 2012. This project will has an IL4 component of 20%. (CA H37-0214-2020-0019100)	BOR	1.00	Construct or acquire, from non-Federal entities, conveyance facilities, conveyance capacity, and wells	in progress	\$72,536					\$72,536
2.7.2	Gray Lodge-Biggs West Gridley WD Conveyance Infrastructure - Project mgmt support	Contract administrator, field engineering staff and contract inspector. This project will has an IL4 component of 20%. (CA H37-0214-2020-0019100)	BOR	1.00	Construct or acquire, from non-Federal entities, conveyance facilities, conveyance capacity, and wells	in progress	\$138,655					\$138,655
2.7.3	Gray Lodge-Biggs West Gridley WD Conveyance Infrastructure - Construction	Conveyance facilities improvement project includes expanded infrastructure capacity including new bridge, canals and pumps. Modification to obligate additional funding onto coop agrmt for design and construction. Funding of \$5,500,000 from 2012 funds not executed prior to year end. This project will has an IL4 component of 20%. (CA H37-0214-2020-0019100)	BOR	0.00	Construct or acquire, from non-Federal entities, conveyance facilities, conveyance capacity, and wells	25% construction completion	\$5,600,000					\$5,600,000

2.7		Construction/Implementation										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2013 Projected Performance	3406 (d)(5) (const) Requested Funding for Fiscal Year 2013					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
2.7.4	Gray Lodge-Pixley Production Wells Modifications - Tech Support	Denver TSC to provide technical support for ongoing conveyance repairs. Pixley wells need erosion repairs. Gray Lodge wells need circuit modification. This project will have an IL4 component of 20%. (CA H37-0214-2020-0019100)	BOR	0.15	Construct or acquire, from non-Federal entities, conveyance facilities, conveyance capacity, and wells	in progress	\$20,182					\$20,182
2.7.5	Gray Lodge-Pixley Production Wells Modifications - Field Office Support	Construction project management, oversight and field inspection for control circuit modification and erosion control. This project will have an IL4 component of 20%. (CA H37-0214-2020-0019100)	BOR	0.65	Construct or acquire, from non-Federal entities, conveyance facilities, conveyance capacity, and wells	in progress	\$51,924					\$51,924
2.7.6	East Bear Creek Pumping Plant Improvements - Maintenance	On-going modification and improvements to sustain the functionality of the plant for delivering surface water to the refuge. The inlet gate, discharge piping, motors and mechanical components need frequent maintenance. Some electrical devices such as relays, float switches, display devices are not functioning. This project will have an IL4 component of 33%. (CA H37-0214-2020-0019100)	BOR	1.00	Construct or acquire, from non-Federal entities, conveyance facilities, conveyance capacity, and wells	in progress	\$49,947					\$49,947

2.7		Construction/Implementation										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2013 Projected Performance	3406 (d)(5) (const) Requested Funding for Fiscal Year 2013					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
2.7.7	East Bear Creek Pumping Plant Improvements - Field Office Support	Construction project management, oversight and field inspection for EBC improvement project. This project will has an IL4 component of 33%. (CA H37-0214-2020-0019100)	BOR	0.25	Construct or acquire, from non-Federal entities, conveyance facilities, conveyance capacity, and wells	in progress	\$19,971					\$19,971
							Sub-Total for Construction/Implementation, FY2013					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$5,953,215	\$0	\$0	\$0	\$5,953,215
							<i>Reclamation Service</i>	\$5,953,215	\$0			\$5,953,215
							<i>CA DFG</i>	\$0	\$0			\$0
							<i>CA DWR</i>			\$0	\$0	\$0

Table 2 – Intentionally left blank