

# Annual Charter Report

## General:

Title	Description
CVPIA (g) Program Administration, Modeling Project Management, Technical Support, and Modeling	To manage, coordinate, plan and implement the CVPIA (g) program

## Authority:

Provision	Percentage	Comments
(g)	100	

No Location IDs Listed

## Watershed(s):

Watershed Name
Central Valley-Wide

## Schedule:

Funding Begins	Benefits Begin	Funding Complete
10/1/2014	10/1/2014	9/30/2016

No Benefits Listed

## Deliverable(s):

Date	Title
8/31/2015	Modeling Projects Management
8/31/2015	Annual Report for FY 2015
8/31/2015	In house in-depth CalSim3 model skill development and model documentation
8/31/2015	Annual Work Plan for FY 2016
8/31/2015	In house in-depth temperature model skill development and model documentation

## Program Priority:

Rank	Comment
1	1 is program salary, 2 is highest priority restoration action, 3 is high priority that can wait a year

Estimated Cost(s):		
Fiscal Year	Fund	Total
2015	CVPRF	\$721,529
2015	SIK	\$944,573
2015	WRR	\$35,000
2016	CVPRF	\$1,079,820
2016	SIK	\$728,338
2016	WRR	\$34,394

Final Total
\$3,543,654

Partners:
Partner Name
FWS
CDFW
CDWR

Related Programs:
Program Name
AFRP

Narrative:
Narrative Description
<p>Program Lead for Reclamation is responsible for administration of the program and coordination of program activities, budget and work with Federal and State agencies. Coordinate with FWS co-lead to review agencies modeling needs, activities, modeling tools development for the 3406 (g) program.</p> <p>Administration of the program requires coordination among the partner and peer agencies like Reclamation, USFWS, CADWR, CAFWS etc.</p>

Risk Management:		
Risk Description	Likelihood	Risk Impact
Availability of adequate funding	1	3

Data Management:
Description
All files will be kept in MP-700 at Cottage Way Office, Sacramento.

Year	Activity	Activity Description				
2015	Administration	Administration of the CVPIA (g) program				
Resource	Agency	Resource Type	FTE	Total	Fund	Description
Modeler - Water Temperature	FWS	Staff Position	0.15		CVPRF	Develop and review of water temperature model
Fish Model Coordination	FWS	Staff Position	0.13		CVPRF	Coordinate fish model development and implementation
In-depth CalSim3 modeler	BOR	Staff Position	0.75		CVPRF	Modeler responsible for in-depth model code modification and documentation of CalSim3 and other water operation model
Program Lead	BOR	Staff Position	0.73		CVPRF	Program lead for Reclamation, coordinating program activities within all agencies as well as reviewing and the development of water operations, ecosystem and fishery modeling tools.
Development & Application of ANN Model	DWR	In-Kind Service Staff	0.33		SIK	
CalLite Model Development & Application	DWR	In-Kind Service Staff	0.68		SIK	
CalSim 3.0 Model Development & Application	DWR	In-Kind Service Staff	1.08		SIK	
CalSim II Model Update & Application	DWR	In-Kind Service Staff	0.74		SIK	
C2VSIM Model Development & Application	DWR	In-Kind Service Staff	1.04		SIK	
Modeler - CalSim3.0	BOR	Staff Position	0.09		CVPRF	Modeling of CalSim3.0
Modeler - CalSim and Riverware	BOR	Staff Position	0.09		CVPRF	Develop, update and implement modeling works related to CalSimII and RiverWare
Professional and Public Out-reach	BOR	Supplies/Services Estimate	1		WRR	Membership and participation in California Water and Environmental Modeling Forum (CWEMF) and other professional organizations, attend workshops etc., prepare publications and provide support for model application to stakeholders.
Supervisory Support	BOR	Staff Position	0.10		WRR	Oversee the modeling activities of Reclamation
Modeler - Water Quality, CalLite	BOR	Staff Position	0.09		CVPRF	Development, update and implementation of water quality and CalLite models
Modeler - CalSim3.0 coordination and temperature model	BOR	Staff Position	0.09		CVPRF	Coordination of CalSim3.0 and using temperature model for Remand studies.
In-Depth Temperature Modeler	BOR	Staff Position	0.75		CVPRF	Modeler responsible for in-depth model code modification and documentation of HEC-5Q and other temperature model
Modeling	FWS	Staff Position	0.20		CVPRF	Co-Lead for USFWS, coordinating



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## General:

Title	Description
Callite Model	Callite is an open source and freely available water operations and screening model for the Central Valley region. It is currently being developed by both Reclamation and the California Department of Water Resources.  This project is authorized by P.L. 3406(g).

## Authority:

Provision	Percentage	Comments
P.L. 3406(g)	100	

No Location IDs Listed

## Watershed(s):

Watershed Name
Central Valley-Wide

## Schedule:

Funding Begins	Benefits Begin	Funding Complete
1/1/2009	1/1/2011	12/31/2025

## Benefit(s):

Metric	Value	Units	Comment
g: # of Eco Models developed	0	number of models complete	

## Deliverable(s):

Date	Title
8/31/2015	integrated Callite that includes the San Joaquin system
8/31/2015	Callite GUI Phase III

## Program Priority:

Rank	Comment
3	1 is program salary, 2 is highest priority restoration action, 3 is high priority that can wait a year

## Estimated Cost(s):

Fiscal Year	Fund	Total
2015	CVPRF	\$75,000

Final Total
\$75,000

Partners:	
Partner Name	
FWS	
CDFW	
CDWR	

Related Programs:	
Program Name	
AFRP	

Narrative:	
Narrative Description	
<p>The CalLite model can be used to support water planners' and managers' decisions, screen and analyze the long-term effects of various water operations on water quality, maximize the beneficial and diversified water uses, and restore the ecosystem in the Central Valley region.</p> <p>In addition to the Reclamation, water users in the Central Valley region and public entities such as the: (1) San Luis and Delta-Mendota Water Authority; (2) Westlands Water District; (3) Metropolitan Water Districts; (4) Contra Costa Water District; (5) Santa Clara Valley Water Agency; (6) California Department of Water Resources; (7) California Department of Fish and Game; and (8) U.S. Fish and Wildlife Service, etc. also use CalLite for their planning and operations .</p> <p>The CalLite Model project accomplishes modeling activities required for the development, application, and adoptive management of the CalLite model according to changes in the laws, climate, reservoir operations priorities, ecosystem hydrology, and water users' demands and priorities.</p>	

Risk Management:		
Risk Description	Likelihood	Risk Impact
Insufficient funds for modeling program	1	3
Stake holders do not accept results from the CalLite model	1	2

Data Management:	
Description	
Information for the charter including relevant protocols for understanding the information, will be permanently housed at Mid-Pacific Regional Office MP-700 of Reclamation at 2800 Cottage Way, Sacramento CA 95618.	

Year	Activity			Activity Description	
2015	Implementation			CalLite contract and supporting works	
Resource	Agency	Resource Type	FTE	Total Fund	Description
MP-3800 Contract Processing	BOR	Staff Position		CVPRF	To award and manage the contract
CalLite GUI Phase III	BOR	Contracts and Agreements Contract	1	CVPRF	To update the CalLite model and CalLite GUI

# Annual Charter Report

## General:

Title	Description
Temperature Model	To develop water temperature model of San Joaquin River and to extend Sacramento River Water Quality Model to include the American and Feather Rivers.  This project is authorized by P.L. 3406(g).

## Authority:

Provision	Percentage	Comments
3406(g)	100	

No Location IDs Listed

## Watershed(s):

Watershed Name
Central Valley-Wide

## Schedule:

Funding Begins	Benefits Begin	Funding Complete
10/1/2014	10/1/2014	9/30/2016

No Benefits Listed

## Deliverable(s):

Date	Title
8/31/2015	Updating the American & Feather river temperature model

## Program Priority:

Rank	Comment
3	1 is program salary, 2 is highest priority restoration action, 3 is high priority that can wait a year

## Estimated Cost(s):

Fiscal Year	Fund	Total
2015	CVPRF	\$100,000

<b>Final Total</b>
\$100,000

Partners:
Partner Name
USACE
NMFS
FWS
CDFW
CDWR

No Related Programs Listed

## Narrative:

### Narrative Description

The temperature models can be used to support water planners' and managers' decisions, screen and analyze the long-term effects of various water operations on water temperature, maximize the beneficial and diversified water uses, and restore the ecosystem in the Central Valley region.

The temperature model project accomplishes modeling activities required for the development, application, and adoptive management of the temperature model according to changes in the laws, climate, reservoir operations priorities, ecosystem hydrology, and water users' demands and priorities.

## Risk Management:

Risk Description	Likelihood	Risk Impact
Insufficient funds for modeling program	1	3
Stake holders do not accept results from the temperature model	1	3

## Data Management:

### Description

Information for the water temperature model including relevant protocols for understanding the information, will be permanently housed at Mid-Pacific Regional Office MP-700 of Reclamation at 2800 Cottage Way, Sacramento CA 95618.

Year	Activity	Activity Description
2015	Implementation	To develop, update and debug the temperature model.

Resource	Agency	Resource Type	FTE	Total Fund	Description
Updating the American and Feather River temperature model	BOR	Contracts and Agreements Contract	1	CVPRF	To update the model