

**Meeting of the Central Valley Flood Protection Board
January 25, 2013
Staff Report
Approval of Resolution 2013-01 - Schedule of Mapping Activities for the Central
Valley Floodplain Evaluation and Delineation Program**

1.0 – ITEM

Consider adopting Resolution No. 2013-01, the updated schedule for floodplain mapping in the Sacramento-San Joaquin Valley stream systems as part of the Central Valley Floodplain Evaluation and Delineation Program (CVFED), as prepared by the Department of Water Resources (Department).

2.0 – BACKGROUND

California Water Code Section 8612 states the following:

“8612(a) On or before December 31, 2008, the department shall prepare, and the Board shall adopt, a schedule for mapping areas at risk of flooding in the Sacramento River and San Joaquin River drainage.

(b) The department shall update the schedule annually and shall present the updated schedule to the Board for adoption on or before December 31 of each year. The update shall include the status of mapping in progress and an estimated time of completion. The schedule shall be based on the present and expected future risk of flooding and associated consequences.”

At the December 19, 2008 meeting of the Central Valley Flood Protection Board (Board) the Department presented a mapping schedule that was adopted by the board as Resolution 08-28. At the January 29, 2010 Board meeting, the Department presented an overview of CVFED (Informal Briefing), and presented the mapping schedule at the following February 26, 2010 Board meeting, where the Board approved the schedule through Resolution 10-06. At the January 28, 2011 Board Meeting, the Department presented the schedule of the CVFED Program as a Consent Item, which was adopted as resolution 11-02. At the December 2, 2011 Board Meeting, the Department presented the schedule of the CVFED Program as a Consent Item, which was adopted as resolution 11-29.

On September 25, 2012 Senate Bill 1278 (*Wolk*, Flood Control: Planning and Zoning: flood protection: Sacramento-San Joaquin Valley) was chaptered. SB 1278 amended Section 9610 (d) (1) of the Water Code to read that ‘*On or before July 2, 2013, and for the purpose of providing information to cities and counties necessary for their determinations relating to level of flood protection, the department shall release flood plain maps that identify at a minimum the facilities of the State Plan of Flood Control and the available data as to the water surface elevation of flooding in urban areas in the event of the failure of the facilities*

of the State Plan of Flood Control during flooding that has a 1-in-200 chance of occurring in any given year. This information is intended to assist SPFC urban communities in making their Urban Level of Flood Protection (ULOP) findings.

Considering the limits of the CVFED study area and the State Systemwide Investment Approach (SSIA) described in the 2012 Central Valley Flood Protection Plan (CVFPP), DWR identified 10 applicable urban communities. These communities must make ULOP findings and are at risk of flooding if SPFC facilities fail during the event that has a 1-in-200 chance of occurring in any given year. The communities are: Chico, Marysville, Yuba City, Sacramento, West Sacramento, Davis, Woodland, Stockton, Lathrop, and Merced.

3.0 – CVFED MAPPING STATUS AND SCHEDULE

The principal objectives for the CVFED Program are to meet legislative mapping requirements and support the risk identification and planning efforts of the Central Valley Flood Protection Plan. The products from the CVFED program will also support associated feasibility studies, and support ongoing and future project evaluations and emergency response and project maintenance activities.

The CVFED Program consists of three (3) interrelated projects:

1. Central Valley Topography Acquisition Project

CVFED Project 1 acquired detailed topographic data to support the development of new hydraulic models. This data consists of Digital Aerial Photography (DAP) (9,000 square miles), Initial Post-Processed Light Detection And Ranging (LiDAR) (7,800 square miles) and Final Post-Processed LiDAR (5,700 square miles) and bathymetric and field surveys (5,500 cross sections). Project 1 has been completed with the exception of a portion of the study area overlapping the Delta Risk Management Study area where a datum conversion error was identified in September 2012. Correction of the conversion error is anticipated to be completed by April 2013. DWR is releasing approved DAP and Final Post-Processed LiDAR to local, state and federal agencies.

2. Central Valley Hydraulic Evaluation Project

CVFED Project 2 consists of the construction of new hydraulic models in the Central Valley SPFC study area and includes the development of:

- a. Over eighty (80) base reach riverine HEC-RAS models encompassing 1,800 stream miles.
- b. Twenty five (25) base two dimensional overland flow FLO-2D and TUFLOW models encompassing 6,250 sq miles of floodplains
- c. Nine (9) unique composite system HEC-RAS/FLO-2D models for the Sacramento System, San Joaquin, Elder Creek, Dear Creek, Chico Streams, Kings River/Delta, Stockton, Middle Creek, and North Fork Feather River.

- d. Ten (10) unique composite system models to support development of urban 200-year SPFC informational maps required by SB 1278 and AB 1965 based on ULOP standards

Project 2 is anticipated to be completed by July 2013.

3. Central Valley Floodplain Delineation Project

CVFED Project 3 activities will include:

- a. Organization and implementation of technical coordination workshops with each of the ten (10) communities that will receive the preliminary models and informational mapping products.
- b. Technical coordination with FEMA and the USACE in workshop development and implementation.
- c. Development and distribution of Urban 200-year SPFC informational floodplain maps for the communities of Chico, Yuba City, Marysville, Davis, Woodland, West Sacramento, Sacramento, Stockton, Lathrop, and Merced.

Project 3 is anticipated to be completed by July 2013.

CVFED will also continue to work with FEMA in updating the DFIRMs for the 100yr and 500yr Central Valley SPFC floodplains in accordance with NFIP criteria.

4.0 - STAFF RECOMMENDATION

Staff recommends that the Board approve Resolution 2013-01 and adopt the updated CVFED mapping schedule.

5.0 – LIST OF ATTACHMENTS

- A. Resolution No. 2013-01

STATE OF CALIFORNIA
THE RESOURCES AGENCY
CENTRAL VALLEY FLOOD PROTECTION BOARD

RESOLUTION NO. 2013-01

APPROVAL OF THE SCHEDULE OF MAPPING ACTIVITIES FOR THE
CENTRAL VALLEY FLOODPLAIN EVALUATION AND DELINEATION
PROGRAM

WHEREAS, Section 8612 of the California Water Code requires the Central Valley Flood Protection Board (Board) to adopt the schedule for mapping areas at risk of flooding in the Sacramento River and San Joaquin River drainage on or before December 31, 2008; and

WHEREAS, the Department of Water Resources (Department) prepared a mapping schedule and the Board adopted it at the December 19, 2008 Board meeting; and

WHEREAS, the Department of Water Resources (Department) prepared a mapping schedule and the Board adopted it at the January 28, 2011 Board meeting; and

WHEREAS, this mapping effort is in support of the FloodSAFE California Initiative (FloodSAFE); and

WHEREAS, this mapping effort is being accomplished through the Central Valley Floodplain Evaluation and Delineation Program (CVFED), a component of FloodSAFE; and

WHEREAS, Proposition 84 and Proposition 1E provide funding and support for this mapping effort; and

WHEREAS, Section 8612 of the California Water Code requires the Department to update the mapping schedule annually and present it to the Board for adoption on or before December 31 of each year; and

WHEREAS, the Department has prepared the updated mapping schedule.

NOW, THEREFORE, BE IT RESOLVED BY THE CENTRAL VALLEY FLOOD PROTECTION BOARD THAT:

1. The Board adopts the following updated CVFED mapping schedule.
 - a. Topography Acquisition April 2013
 - b. Riverine and Floodplain Hydraulic Model Development July 2013
 - c. Urban Area SPFC Informational Maps July 2013

PASSED AND ADOPTED by vote of the Board on _____, 2013.

William H. Edgar
President

Jane Dolan
Secretary