



## Overview of East Branch Extension Operations and Facilities

### Background

State Water Project staff will provide an overview of the East Branch Extension operations and facilities. The East Branch Extension is a cooperative effort among DWR, San Bernardino Valley Municipal Water District (SBVMWD) and San Geronio Pass Water Agency (SGPWA) to deliver SWP water to the east side of SBVMWD and SGPWA's service areas. The project conveys water from the Devil Canyon Powerplant Afterbay to Cherry Valley through a series of existing and new facilities. Construction for Phase I was completed in 2003.

Improvements to East Branch Extension Phase I have been made to provide additional operational flexibility, system reliability, and reduce on-peak energy demands. Phase I Improvements include the enlargement of Crafton Hills Reservoir and construction of the Yucaipa Connector Pipeline. The reservoir's operating storage has been increased to 225 acre-feet and the pipeline consists of approximately one-half mile of 42-inch diameter steel pipe. Enlargement of Crafton Hills Reservoir began in 2012 and is now substantially complete. Construction of the Yucaipa Connector Pipeline began in 2010 and was completed in 2011.

The East Branch Extension Phase II Project is underway and will add facilities that bypass a segment of the East Branch Extension Phase I Project providing additional pumping capacity to convey the full contracted amount of SWP water (17,300 acre-feet) to the SGPWA. In addition, the project will allow the SBVMWD to increase its distribution system capacity to the Redlands and Yucaipa Valley service areas. Principal features of this project consist of approximately six miles of a new large diameter pipeline, a new reservoir (Citrus Reservoir) with a capacity of 415 acre-feet, a new 160 cubic feet per second (cfs) pump station (Citrus Pump Station), expansion of the existing Crafton Hills Pump Station from 60 cfs to 135 cfs, and installation of an additional pump at the existing Cherry Valley Pump Station to increase the capacity from 32 cfs to 52 cfs. Phase II construction is scheduled for completion in 2016.

### Highlighted Facilities

**Citrus Reservoir** has a storage capacity of approximately 560 acre-feet and a surface area of about 18 acres. It acts as a forebay for Citrus Pump Station. Water comes in from Devil Canyon and is discharged into the reservoir through gravity flow.

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**Citrus Pump Station** has a capacity of approximately 160 cfs. Eight pumps lift water 667 feet through the Mentone pipeline to a new forebay tank at the Crafton Hills Pump Station.

**Crafton Hills Reservoir** had an original capacity of 83 acre-feet. It is being expanded to 225 acre-feet through the addition of a second dam.

**Crafton Hills Pump Station** capacity is being expanded from 60 to 135 cfs as part of the Phase II Expansion. This water will ultimately be delivered to SGPWA primarily for spreading for groundwater recharge.

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