



## Introduction

Santa Margarita Water District and South Coast Water District are proposing to implement the San Juan Watershed Program to enhance and manage the surface water and groundwater resources of the San Juan Basin.



San Juan



In 2014, SJBA adopted the San Juan Basin Groundwater and Facilities Management Plan to develop management alternatives included adaptive production management, in-stream stormwater recharge, near-stream stormwater recharge, recycled water recharge, and control of seawater intrusion.

## San Juan Creek Watershed

The San Juan Creek watershed is located in southern Orange County on the western flank of the Santa Ana Mountains and encompasses approximately 175 square miles of rugged topography. The watershed drainage waterways include San Juan Creek and Arroyo Trabuco.

SJBA subsequently performed the San Juan Basin Groundwater and Desalination Optimization Study to further evaluate implementing groundwater recharge and enhanced/managed production while protecting the basin from seawater intrusion.

## Program Background

The Program is a product of the San Juan Basin Authority (SJBA) for the purpose of managing and optimizing the water resources of the San Juan Basin.



## A Phased Approach

The surface water recharge strategies provide an opportunity to implement a phased approach to the groundwater optimization program increasing the recharge component over time. A phasing strategy was developed in such a way that each phase of the program can be an endpoint or off-ramp from further expansion.

**Overall Benefits**



LOCAL SUPPLY



WATER QUALITY



ECOLOGICAL ENHANCEMENTS



WATER STORAGE

San Juan Watershed Project has the capacity to provide 2.8 billion gallons of additional, local, reliable water to South Orange County residents. Enough water for 50,000 families each year. The project enhances local water supply, water quality, ecological balance, and the regions capacity to store water.



**Phase One** will supply up to 1,200 acre feet of local, reliable water to South Orange County residents by installing **rubber dams** to capture and filter **stormwater**.



**Phase One Benefits**



LOCAL SUPPLY



ECOLOGICAL ENHANCEMENTS

- Enhanced Reliability
- Provide Drought-Proofing
- Utilizes Existing Treatment Facilities
- Supports MS4 Requirements
- Immediate Water
- Quality Improvement
- Environmental Enhancements
- Stabilized Streambed
- Aquatic Connectivity

**Key Dates**

- 1/12/17 Public Scoping Meeting
- 2/2/17 NOP Public Comments due
- Spring 2017 Draft EIR Released, Pubic Meeting & Comment Period
- Summer 2017 Final EIR & Notice of Determination Issued
- Fall 2017 Project Design Completed, Bidding Period Ends & Construction Award

**Phase One Schedule**



**Phase Two** will supply up to an additional 4,900 acre feet of local, reliable water a year to South Orange County residents. Phase two builds on phase one by capturing and filtrating stormwater and recycled water.

**Phase Three** will supply an additional 2,700 acre feet of local, reliable water a year by recharging recycled water up stream.

For a total of up to 8,880 acre feet of local reliable water – the basin will then provide approximately **20% of the South Orange County domestic water needs.**