Appendix A

Public Involvement

- NOI for Stakeholder Participation
- Stakeholder Meeting Materials
- Additional Public Event Materials

NOI for Stakeholder Participation

PUBLIC HEARING NOTICE/NOTICE OF INTENTION

NOTICE OF INTENTION TO PREPARE AN INTEGRATED REGIONAL WATER MANAGEMENT PLAN (IRWMP) UPDATE AND ASSOCIATED TECHNICAL STUDIES

All interested persons are invited to attend and be heard at a public hearing to be held by the Upper Santa Clara River Regional Water Management Group (RWMG), on **Thursday, November 17, 2011 at 2:00 p.m**. at the Newhall County Water District, 23780 North Pine Street, Newhall, CA 91321. Consideration will be given to the following item: prepare an Integrated Regional Water Management Plan (IRWMP) Update and associated technical studies.

PROJECT INFORMATION: The Upper Santa Clara River RWMG was formed consistent with State law as a coalition of agencies, and consists of more than three public agencies, at least two of which have statutory authority over water supply, water quality, flood control and storm water.

On October 17, 2011 the USCR RWMG directed the publication of a notice of intention to update a regional plan in accordance with Section 10543 of the Water Code and Section 6066 of the Government Code and also directed the publication of this notice of a public hearing to be held on **November 17, 2011**. The purpose of the hearing is to initiate the update of the IRWMP, which was adopted in July, 2008, to make it consistent with new requirements mandated by Proposition 84. Being prepared concurrently with the update of the IRWMP are two focused technical studies for the watershed; a climate change technical study, required by Proposition 84 and a salt and nutrient management plan required by the State Water Resources Control Board's Recycled Water Policy.

At the conclusion of the public hearing, a regular IRWMP Stakeholder meeting will take place from **2:30 to 4:00 p.m.** at the same location. The Upper Santa Clara River IRWMP Stakeholder group was formed during the preparation of the 2008 IRWMP as part of the public participation process and will continue to hold regular meetings through the update of the IRWMP to provide an opportunity for any interested party to participate in plan development and implementation.

For more information please contact:

Ms. Lauren Everett, Water Resources Planner

Castaic Lake Water Agency

27234 Bouquet Canyon Road
Santa Clarita, CA 91350
(661) 297-1600 x 282

e-mail at leverett@clwa.org

IRWMP Update Public Meeting and Stakeholder Kickoff Meeting, November 17, 2011

- Agenda
- PowerPoint Presentation: IRWMP Guidelines Updates

Upper Santa Clara River Watershed
Integrated Regional Water Management Plan

Thursday, November 17, 2010

IRWMP Update Public Hearing

2:00 pm-2:30 pm

Regular Stakeholder Meeting

2:30 pm –4:00 pm

Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Public Noticing of IRWMP Update
- Discuss IRWMP Update and Technical Study Preparation Work Efforts
- Watershed Updates
- Describe Ongoing and Future Funding Opportunities

AGENDA

2:00 **I. Public Hearing on the Update of the IRWMP**

Stakeholder Meeting

2:30 **II. Welcome and Introductions**

A. Meeting purpose and outcomes

B. Stakeholder self-introductions

Jeff Ford, CLWA

2:40 **III. IRWMP Update and Climate Change Technical Study Process, Salt and Nutrient Management Plan Process**

A. Scope/Schedules

B. Stakeholder participation

C. Salt and Nutrient Management Plan Subcommittee membership

Meredith Clement, Kennedy/Jenks, Lauren Everett, CLWA

3:15 **IV. Watershed Updates**

A. Municipal Stormwater Permit

B. Bacteria TMDL

C. 2010 Urban Water Management Plan

Heather Merenda, City of Santa Clarita/Jeff Ford, CLWA

3:45 **V. Implementation Grant Status and Future Grant Funding Opportunities**

Lauren Everett, CLWA

4:00 **VI. Close**

Upper Santa Clara River IRWMP

IRWMP Guideline Updates

November 15, 2011 2 pm

Prop 84 IRWMP Updates

- Address Statewide Priorities
- Meet New IRWM Plan Standards (16)
- $6.9M implementation grant is contingent upon update of the plan!

Statewide Priorities

New Technical Studies

- Climate Change Technical Study
  - Adaptation to Climate Change Effects
  - Mitigation of Greenhouse Gas (GHG) Emissions

- Salt and Nutrient Management Plan
  - Surface and Groundwater Quality Protection
  - As required by the State Water Resources Control Board's Recycled Water Policy

Plan Standards Overview

- Governance (New RWMG Standard)
- Region Description
- Objectives
- Resource Management Strategies
- Integration
- Project Review Process (NEW)
- Impact and Benefit
- Plan Performance and Monitoring
- Data Management
- Finance
- Technical Analysis
- Relation to Local Water Planning (NEW)
- Relation to Local Land Use Planning
- Stakeholder Involvement
- Coordination
- Climate Change (NEW)

Updates

- Integration
  - Continue to use successful framework
- Governance
  - Update with narrative from Region Acceptance Process (RAP) application
- Stakeholder Involvement
  - Update with RAP and meetings undertaken as part of IRWMP Update
- Coordination
  - Update with RAP
  - California Climate Adaptation Strategy
  - Membership in CA Climate Action Registry
  - City of Santa Clarita's Climate Sensitivity Study

Updates

- Region Description
  - RAP update
  - Ongoing efforts
  - New land use map per One Valley, One Vision
  - Climate change technical study
- Impact and Benefit
  - Within IRWM region and between regions
  - DACs, EJ, Native American tribal communities

Updates

- Finance
  - O&M costs
  - Updated list of funding sources and mechanisms
- Technical Analysis
  - Update with revised technical resources
  - Climate change technical study
  - Selection of water management strategies

Updates

- Plan Performance and Monitoring
  - Data management System (DMS)
    - Track and document implementation progress
    - Store and disseminate monitoring data
  - Findings and "lessons learned"
  - Policies and procedures for adaptive management
- Data Management
  - DMS for data integration into State databases
  - RWMG document review process
  - Data sharing

Updates

- Objectives
  - Measurement and prioritization
  - Adaptation to climate change impacts
  - Update water quality improvement objective with Salt and Nutrient Management Plan
- Resources Management Strategies
  - California Water Plan Update 2009 strategies
  - "No-Regrets" adaptation strategies

Updates

- Relation to Local Water Planning
  - Standard met by existing Plan
  - Strategies from local plans to address climate change standard
- Relation to Local Land Use Planning
  - Standard met by existing Plan
  - Information sharing and collaboration with land use planning efforts to address climate change standard

Updates

- Project Review Process (NEW)
  - RAP update
  - Contribution to climate change adaptation
  - Contribution to GHG emission reductions
  - GHG emissions CEQA analysis
- Climate Change Standard (NEW)
  - Adaptation responses to climate change effects
  - Mitigation of GHG emissions
  - Technical Study

Climate Change Technical Study

- Identify Vulnerability to Climate Change
  - Influences Region Description, Objectives, Relation to Local Water Planning, Relation to Local Land Use Planning, and Project Review Process of IRWMP Update
- Identify Adaptation Strategies
  - Influences Objectives, Relation to Local Water Planning, Relation to Local Land Use Planning and Project Review Process of IRWMP Update
- Recommendations on Data Collection/Next Steps for Climate Change in IRWMP Updates

Salt and Nutrient Management Plan

- Prepare Salt and Nutrient Management Plan for submittal to RWQCB
  - Influences Objectives, Plan Performance and Monitoring, and may result in new projects for consideration in IRWMP

Salt and Nutrient Management Plan

SWRCB Recycled Water Policy – 2009

- Local Stakeholder Cooperative Development of Implementation Plans

- Basin-wide Management of Salts and Nutrients
  - Salts – Total Dissolved Solids (TDS) and Chloride
  - Nutrients – Ammonia and Nitrate plus Nitrite (nitrogen compounds)

Salt and Nutrient Management Plan

- Required Components of the Plan:
  - Basin-wide water quality monitoring plan
  - Emerging constituents consideration (e.g., PPCPs, EDs)
  - Water recycling and stormwater recharge goals and objectives
  - Salt and nutrient source identification
  - Basin loading/assimilative capacity estimates
  - Salt mitigation strategies
  - Anti-degradation analysis

Salt and Nutrient Management Plan

- Suggested Elements of the Plan:
  - Background – to include stakeholder roles and responsibilities
  - Groundwater Basin Characteristics
  - Basin Evaluation
  - Salt and Nutrient Management Strategies
  - Basin Management Plan Elements
  - CEQA Analysis
  - Antidegradation Analysis
  - Plan Implementation

Questions?

Stakeholder Meeting, January 26, 2012

- Agenda
- PowerPoint Presentation: IRWMP Update
- Handout: Region Description Update

UPPER SANTA CLARA RIVER

Integrated Regional Water Management

Regular Stakeholder Meeting
Thursday, January 26, 2012, 2:30 pm –4:30 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Provide Update on IRWMP Update and Technical Study Efforts
- Engage in Updating Water Management Strategies for IRWMP Update
- Provide Funding Update and Other Watershed Activities

AGENDA

2:30 **I. Welcome and Introductions**

A. Meeting purpose and outcomes

B. Stakeholder self-introductions

Jeff Ford, CLWA

2:40 **II. Consultant Progress Updates**

A. IRWMP Update and Climate Change Technical Study

- Update existing sources of information

B. Salt and Nutrient Management Plan

- 1st Task Force Meeting 2/23

Meredith Clement, Kennedy/Jenks, Lauren Everett, CLWA

3:15 **III. Water Management Strategies**

A. New Resource Strategies

B. Updating Old Strategies

Meredith Clement, Kennedy/Jenks

3:50 **IV. Funding Update**

A. Planning Grant R1 Progress Report

B. Planning Grant R2 PSP

C. R1 Implementation Grant Agreement

D. Timing of Implementation Grant R2 and R3

Lauren Everett, CLWA

4:10 **VI. Other Watershed Activities**

A. Climate Change Workshop – March 15, 2012

B. Joint IRWMP meeting with WCVC SCR Watershed Region

Lauren Everett, CLWA

4:20 **VII. Close**

Upper Santa Clara River IRWMP Update

January 26, 2012

Topics to be Addressed

- Updated California Water Plan Strategies
  - 2005 California Water Plan
    - 24 Water Management Strategies
  - Updated 2009 California Water Plan
    - 27 Resource Management Strategies
    - Other Potential Strategies

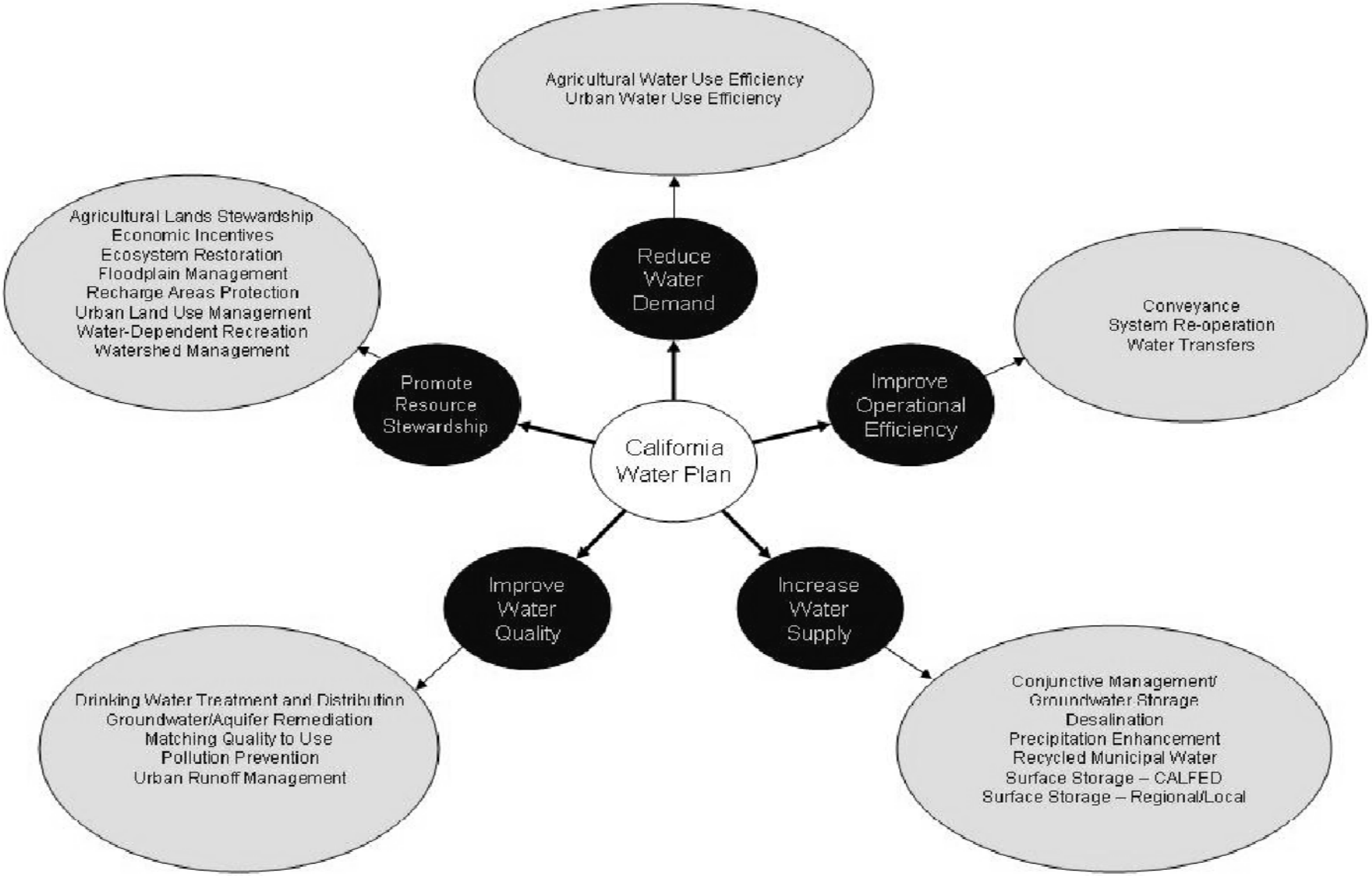
- Plan for Updating Region Description
  - Existing Data Sources vs. New Sources

Identified Regional Objectives

The originally 24 Water Management Strategies were organized into 5 regional IRWMP objectives:

- Reduce Water Demand
- Improve Operational Efficiency
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship

2008 IRWMP Objectives and CA Strategies



Required Stakeholder Involvement

- Do 2008 strategies still apply?
- Are new strategies applicable to the region?
  - Examples of regional strategies
- Are there resource management strategies not listed in the California Water Plan that the group wants considered in the Plan?
  - Examples of strategies
- See handout showing current Regional Strategies (rows) and current California Water Plan Strategies (columns)

Relationship of Regional and CA Strategies

TABLE 4.3-1
UPPER SANTA CLARA RIVER REGION WATER MANAGEMENT STRATEGIES AND CALIFORNIA WATER PLAN RESOURCE MANAGEMENT STRATEGIES

	California Water Plan Strategies																							
	Agricultural Water Use Efficiency	Urban Water Use Efficiency	Conveyance	System Reoperation	Water Transfers	Conjunctive Management and Groundwater Storage	Desalination	Precipitation Enhancement	Recycled Municipal Water	Surface Storage – CALFED	Surface Storage – Regional/Local	Drinking Water Treatment and Distribution	GW/Aquifer Remediation	Matching Water Quality to Water Use	Pollution Prevention	Urban Runoff Management	Agricultural Lands Stewardship	Economic Incentives	Ecosystem Restoration	Floodplain Management	Recharge Areas Protection	Urban Land Use Management	Water-Dependent Recreation	Watershed Management
REDUCE WATER DEMAND																								
Urban Water Use Efficiency Measures BMP 1: Residential Survey Programs BMP 2: Residential Plumbing Retrofit BMP 3: System Water Audits BMP 4: Metering w/Commodity Rates BMP 5 Large Landscape Conservation BMP 6: High Efficiency Clothes Washers BMP 7: Public Information Program BMP 8: School Education Programs BMP 9: Commercial Industrial Institutional BMP 10: Wholesaler Agency Assistance Programs BMP 11: Conservation Pricing BMP 12: Conservation Coordinator BMP 13: Water Waste Prohibitions BMP 14: Residential Ultra-Low Flush Toilet Replacement Program		•				•						•				•		•			•			
Agricultural Water-Use Efficiency Measures	•					•											•	•			•			
IMPROVE OPERATIONAL EFFICIENCY																								
Rehabilitation, Replacement, or Removal of Existing Facilities	•	•	•	•																				
Improved Operational Efficiency Measures	•	•																						
Intertie Projects			•	•	•																			
INCREASE WATER SUPPLY																								
Surface Reservoir or Storage Tank										•	•													
Surface Water Diversion				•																				
Groundwater Extraction Facilities						•																		
Aquifer Storage and Recovery						•							•											
Groundwater Management and Planning Policies						•							•		•						•			•
Groundwater Replenishment Including Spreading Grounds and Injection Wells Aquifer Recharge with Reclaimed Water Aquifer Recharge with Septic						•			•				•								•		•	•
Hydrologic Modeling and Monitoring			•	•						•	•					•				•				

2009 Resource Management Strategies

- Reduce Water Demand
  - Agricultural Water Use Efficiency
  - Urban Water Use Efficiency
- Improve Operational Efficiency
  - Conveyance – Delta/Regional/Local
  - System Reoperation
  - Water Transfers

2009 Resource Management Strategies

- Increase Water Supply
  - Conjunctive Management/Groundwater Storage
  - Desalination
    - 2008 IRWMP said this not applicable to Region. Still the case?
  - Precipitation Enhancement
    - 2008 IRWMP said this not applicable to Region. Still the case?
  - Recycled Municipal Water
  - Surface Storage – CALFED
  - Surface Storage – Regional/Local

2009 Resource Management Strategies

- Improve Water Quality
  - Drinking Water Treatment and Distribution
  - Groundwater/Aquifer Remediation
  - Matching Water Quality to Use
  - Pollution Prevention
  - Salt and Salinity Management (NEW)
    - Is this applicable to Region? Examples of this in Region?
  - Urban Runoff Management

2009 Resource Management Strategies

- Promote Resource Stewardship
  - Agricultural Lands Stewardship
  - Economic Incentives
  - Ecosystem Restoration
  - Forest Management (NEW)
    - Is this applicable to Region? Examples of this in Region?
  - Land Use Planning and Management/Formerly Urban Land Management
  - Recharge Area Protection
  - Water-dependent Recreation
  - Watershed Management

2009 Resource Management Strategies

- Improve Flood Management
  - Flood Risk Management (NEW)
    - Is this applicable to Region? Examples of this in Region?
- Other Strategies (NEW)
  - Crop Idling for Water Transfers
  - Dewvaporation or Atmospheric Pressure Desalination
  - Fog Collection
  - Irrigated Land Retirement
  - Rainfed Agriculture
  - Waterbag Transport/Storage Technology

Region Description Update

Major sections will be updated with most recent and available sources to address:

- Land Use
- Ecological Processes
- Water Supply
- Flood Management
- Regional Vulnerability to Climate Change

Required Stakeholder Involvement

- Other Sources for Region Description Update?
- Major Water Issues and Problem Updates?
- Strategy Update Considerations

Land Use

Existing Data Source

- 2004 Santa Clarita Valley General Plan Technical Background Report

Strategy for Updating

- 2011 City of Santa Clarita General Plan
- 2011 One Valley One Vision/Santa Clarita Valley Area Plan

Ecological Processes

Existing Data Source

- 2005 Santa Clara River Enhancement and Management Plan
- 2003 Business Plan for the Angeles National Forest
- 1999 City of Santa Clarita General Plan, Open Space and Conservation Element

Strategy for Updating

- 2011 City of Santa Clarita General Plan and Santa Clarita Valley Area Plan, Conservation and Open Space Element
- 2010 OVOV EIR
- Recent land acquisition reports/documents

Water Supply

Existing Data Source

- 2005 Urban Water Management Plan
- 2005 DWR Reliability Report
- DWR 2002 California's Groundwater Bulletin 118
- 2003 Groundwater Management Plan
- 2009 Santa Clarita Valley Water Report
- 2009 Groundwater Basin Yield Analysis

Strategy for Updating

- 2010 Urban Water Management Plan
- 2009 DWR Reliability Report
- 2010 Santa Clarita Valley Water Report
- 2010 Santa Clarita Valley Sanitation District Reduced Discharge Technical Study
- 2012 Recycled Water Master Plan Update

Flood Management

Existing Data Source

- United Water Conservation District and Castaic Lake Water Agency 1996 Water Resources Report

Strategy for Updating

- *Sources?*

Regional Vulnerability to Climate Change (NEW)

Strategy for Updating

- Climate Change Technical Study
- City of Santa Clarita, Climate Change Assessment

Thank You

Strategies for Updating the Upper Santa Clara River IRWMP Region Description

Region Section	Existing Data Source	Strategy for Updating
Land Use	• 2004 Santa Clarita Valley General Plan Technical Background Report	• 2011 City of Santa Clarita General Plan • 2011 One Valley One Vision (OVOV) Los Angeles County Santa Clarita Valley Area Plan
Ecological Processes	• 2005 Santa Clara River Enhancement and Management Plan • 2003 Business Plan for the Angeles National Forest • 1999 City of Santa Clarita General Plan, Open Space and Conservation Element	• 2011 City of Santa Clarita General Plan and Santa Clarita Valley Area Plan, Conservation and Open Space Element • 2010 OVOV EIR • Recent land acquisition reports/documents • *Others?*
Water Supply	• 2005 Urban Water Management Plan • 2005 DWR Reliability Report • DWR 2002 California's Groundwater Bulletin 118 • 2003 Groundwater Management Plan • 2009 Santa Clarita Valley Water Report • 2009 Groundwater Basin Yield Analysis	• 2010 Urban Water Management Plan • 2009 DWR Reliability Report • 2010 Santa Clarita Valley Water Report • 2010 Santa Clarita Valley Sanitation District Reduced Discharge Technical Study • 2012 Recycled Water Master Plan Update • *Others?*
Flood Management	• 1996 Water Resources Report by United Water Conservation District and Castaic Lake Water Agency	• *Sources?*
Regional Vulnerability to Climate Change	[New section]	• Climate Change Technical Study • City of Santa Clarita, Climate Change Assessment

Summary of Major Water Issues and Problems from 2008 IRWMP that may require updates:

- Continued growth in water demand while imported water supplies become less reliable. The Stakeholders expressed a need for a comprehensive picture of available water supplies and the desire to find alternative water sources

- Difficulty in maintaining open space and habitat areas given population growth and increased urbanization

- Variety of water quality issues, including perchlorate contamination, and TMDLs for chloride and nitrate compounds

- Runoff and drainage issues in the more rural areas that result in negative effects to the rural areas and areas downstream

- Runoff and drainage issues related to urbanizing areas in the floodplain

Stakeholder Meeting, March 22, 2012

- Agenda
- Handout: Upper Santa Clara River 2008 IRWMP Objectives
- Handout: Climate Change Vulnerabilities in the USCR Region
- Handout: Upper Santa Clara River Region Water Management Strategies and California Water Plan Resource Management Strategies

UPPER SANTA CLARA RIVER
Integrated Regional Water Management

Regular Stakeholder Meeting
Thursday, March 22, 2012, 2:30 pm – 4:30 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Provide update on IRWMP funding and on Consultants progress on IRWMP Update and associated technical studies
- Discuss preliminary results of Climate Change Technical Study and rank vulnerabilities
- Update IRWMP Objectives

AGENDA

2:30	**I.**	**Welcome and Introductions** A. Meeting purpose and outcomes B. Stakeholder self-introductions *Lauren Everett, CLWA*
2:35	**II.**	**Funding Update** A. Planning Grant R1 & R2 B. R1 Implementation Grant Agreement C. Roundtable of Regions Meeting 3/20 *Lauren Everett, CLWA*
2:45	**III.**	**Consultant Progress Updates** A. IRWMP Update and Climate Change Technical Study B. Salt and Nutrient Management Plan *Meredith Clement, Kennedy/Jenks, Lauren Everett, CLWA*
3:00	**IV.**	**Climate Change** A. Rank Vulnerabilities *Meredith Clement, Kennedy/Jenks*
3:30	**V.**	**Update IRWMP Objectives** *Meredith Clement, Kennedy/Jenks*
4:20	**VII.**	**Close**

UPPER SANTA CLARA RIVER 2008 IRWMP OBJECTIVES (WITH DEFINITIONS AND MEASUREMENTS)

Objective	Measurement
Reduce Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	Ten (10) percent overall reduction in projected urban water demand throughout the Region by 2030 through implementation of water conservation measures. Replace up to 4,300 outdated water meters per year.
Improve Operational Efficiency*:* Maximize water system operational flexibility and efficiency, including energy efficiency.	With assistance of local energy utility, perform electrical audit on all wholesale and purveyor water facilities once every five years. Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Increase use of recycled water by up to 17,400 AFY by 2030, consistent with health and environmental requirements. Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 AFY by year 2010 and 11,000 AFY by year 2030. Increase water supply as necessary to meet anticipated peak demands at buildout in the LACWWD No. 37 service area (~0.74 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd). Capture and recharge 5,000 to 10,000 AFY of urban and storm water runoff in a manner consistent with the pending update to the regional groundwater flow model and Basin Yield Study..
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Meet all drinking water standards. Prevent migration of contaminant plumes. Comply with existing and future TMDLs.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	In areas of the floodplain where invasive species have taken hold, reduce invasive species to 40 percent or less cover of the understory and canopy in years 1 to 5. Every five (5) years reduce by half the percentage of invasive species. In years 20 and beyond, keep invasive species to 2 percent or less. Keep invasive species to 2 percent or less in the upper reaches and tributaries where little to no invasive plants are currently located. Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage. Purchase private property from willing sellers in the 100-year floodplain. Acquire 12 miles along the Santa Clara River for development as a recreational trail/park corridor.

CLIMATE CHANGE VULNERABILITIES IN THE USCR REGION

Watershed Characteristics	General Overview of Vulnerabilities
Water Supply	**SWP Imported Water** - SWP water is an important portion of the water resources available to the Region. Potential impacts on SWP water availability resulting from climate change directly affect the amount of imported water supply delivered to the Region. **Groundwater** – Changes in local hydrology could affect natural recharge to the local groundwater aquifers and the quantity of groundwater that could be pumped sustainably over the long-term. Decreased inflow from runoff, increased evaporative losses, warmer and shorter winter seasons can alter natural recharge of groundwater. In addition, additional reductions in the SWP imported water imposed by climate change would lead to more reliance on local groundwater.
Water Quality	**SWP Imported Water** – Sea level rise could result in increases in chloride and bromide (a disinfection byproduct precursor). Increased temperature could result in increases in algal blooms and taste and odor events. **Regional Surface Water** – Increased temperature could result in lower dissolved oxygen in streams. Decreases in annual precipitation could result in higher concentrations of contaminants in streams during droughts. Increased wildfire risk and flashier storms could increase turbidity loads for water treatment.
Water Demand	**Urban and Agricultural Water Demand** – Changes of hydrology in the Region as a result of climate change could lead to changes in water demand, both in quantities and patterns. Increased irrigation (outdoor landscape or agricultural) is anticipated to occur with temperature rise, increased evaporation losses with warmer temperature, and a longer growing season.
Ecosystem and Habitat	Increased temperature and potential decreases in annual precipitation could put stress on sensitive ecosystems and alter habitats. In addition, the Region may be subject to increased wildfire risk, which could alter habitat.
Flooding	Local surface flows could change as a result of more frequent and intense storm events, leading to more areas susceptible to flooding, and increasing risk of direct flood damage in the Region.
Sea Level Rise	The Region is not directly subject to sea level rise. However, potential effects of sea level rise would affect SWP water supply conditions. The principal concern is the potential for sea water intrusion to increase Delta salinity.
Hydropower	Currently, the Region does not produce hydropower; thus, climate change effects on hydropower are not likely to occur.

UPPER SANTA CLARA RIVER REGION WATER MANAGEMENT STRATEGIES AND CALIFORNIA WATER PLAN RESOURCE MANAGEMENT STRATEGIES

	California Water Plan Strategies																											
	Agricultural Water Use Efficiency	Urban Water Use Efficiency	Conveyance	System Reoperation	Water Transfers	Conjunctive Management and Groundwater Storage	Desalination	Precipitation Enhancement	Recycled Municipal Water	Surface Storage – CALFED	Surface Storage – Regional/Local	Drinking Water Treatment and Distribution	GW/Aquifer Remediation	Matching Water Quality to Water Use	Pollution Prevention	Salt and Salinity Management	Urban Runoff Management	Agricultural Lands Stewardship	Economic Incentives	Ecosystem Restoration	Forest Management	Land Use Planning and Management	Recharge Areas Protection	Water-Dependent Recreation	Watershed Management	Flood Risk Management	Other
Reduce Water Demand																												
Conservation Coordinator Water Waste Prevention Water Loss Control Metering with Commodity Rates Retail Conservation Pricing Public Information Programs School Education Programs Residential Survey and Retrofit Residential Landscape Water Survey WaterSense Specification Toilets Commercial, Industrial, Institutional Large Landscape		•				•						•					•		•				•				
Agricultural Water-Use Efficiency Measures	•					•												•	•				•				
Improve Operational Efficiency																												
Rehabilitation, Replacement, or Removal of Existing Facilities	•	•	•	•																								
Improved Operational Efficiency Measures	•	•																										
Intertie Projects			•	•	•																							
Increase Water Supply																												
Surface Reservoir or Storage Tank									•	•																		
Surface Water Diversion				•																								
Groundwater Extraction Facilities						•																						
Aquifer Storage and Recovery						•							•															
Groundwater Management and Planning Policies						•										•												
Groundwater Replenishment Including Spreading Grounds and Injection Wells Aquifer Recharge with Reclaimed Water Aquifer Recharge with Septic						•																						
Hydrologic Modeling and Monitoring			•	•						•	•					•	•											•

UPPER SANTA CLARA RIVER REGION WATER MANAGEMENT STRATEGIES AND CALIFORNIA WATER PLAN RESOURCE MANAGEMENT STRATEGIES (CONT.)

	California Water Plan Strategies																												
	Agricultural Water Use Efficiency	Urban Water Use Efficiency	Conveyance	System Reoperation	Water Transfers	Conjunctive Management and Groundwater Storage	Desalination	Precipitation Enhancement	Recycled Municipal Water	Surface Storage – CALFED	Surface storage – Regional/Local	Drinking Water Treatment and Distribution	GW/Aquifer Remediation	Matching Water Quality to Water Use	Pollution Prevention	Salt and Salinity Management	Urban Runoff Management	Agricultural Lands Stewardship	Economic Incentives	Ecosystem Restoration	Forest Management	Land Use Planning and Management	Recharge Areas Protection	Water-Dependent Recreation	Watershed Management	Flood Risk Management	Other
Recycled Water for Irrigation or Other Beneficial Uses Surplus Recycled Water from Other Regions									•					•													
Increased Uses for Recycled Water through Policy Change and Education									•					•													
Imported Water	•	•	•	•	•	•				•	•	•													•		
Watershed Planning																•		•				•			•		
Rainwater Collection Systems (Cisterns)		•				•											•										
Greywater Systems		•							•																		
Water Banking, Exchange and Transfer Projects			•	•	•	•																					
Drought Contingency and Emergency Planning	•	•	•	•	•	•					•	•	•														
Urban Water Management Planning		•																									
Removal of Invasive, Water-Thirsty Plants																				•			•		•	•	
Understand Total Water Usage in Region	•	•				•																	•		•		
Improve Water Quality																											
Build Sewer Treatment Collection and Distribution Systems															•												
Rehabilitate or Upgrade Sewer Treatment Collection and Discharge Systems															•												
Relocate and Protect Sewer Treatment Collection and Discharge Systems - Remove from Vulnerable Locations															•												
TMDL Development and Implementation															•	•	•		•								
Pump and Treat Water for Quality Enhancement															•		•		•								
Remove or Prohibit On-Site Water Softening Devices															•												
Replacement of Problematic Septic Tank Systems with Sewer Hook-Ups															•												
Fertilizer, Herbicide, and Pesticide Application Reduction	•														•			•									
Low Level Storm Water Treatment															•	•	•									•	
Non-Point Source Pollution Control Landscape/Hardscape Retrofits															•	•											
Water Quality Monitoring (Requires Coordination Among Sampling Entities to be Effective)															•												

UPPER SANTA CLARA RIVER REGION WATER MANAGEMENT STRATEGIES AND CALIFORNIA WATER PLAN RESOURCE MANAGEMENT STRATEGIES (CONT.)

	California Water Plan Strategies																											
	Agricultural Water Use Efficiency	Urban Water Use Efficiency	Conveyance	System Reoperation	Water Transfers	Conjunctive Management and Groundwater Storage	Desalination	Precipitation Enhancement	Recycled Municipal Water	Surface Storage – CALFED	Surface storage – Regional/Local	Drinking Water Treatment and Distribution	GW/Aquifer Remediation	Matching Water Quality to Water Use	Pollution Prevention	Salt and Salinity Management	Urban Runoff Management	Agricultural Lands Stewardship	Economic Incentives	Ecosystem Restoration	Forest Management	Land Use Planning and Management	Recharge Areas Protection	Water-Dependent Recreation	Watershed Management	Flood Risk Management	Other
Improve Water Quality Being Discharged									•			•	•	•	•	•	•					•	•		•		
Brownfields Remediation													•						•			•	•		•		
Wellhead Recharge and Protection													•	•	•	•											
Emerging Contaminant Problems - Monitoring and Management									•			•			•												
Control and/or Enforce Prohibitions on Illegal Discharge of Controlled or Toxic Substances													•		•												
Leaking Underground Storage Tank Remediation						•									•												
Outreach and Education															•												
Biological Treatment of Water (e.g., Treatment Via Wetlands)																				•	•					•	
Improve Riparian Habitat																				•	•						
PRACTICE RESOURCE STEWARDSHIP																											
Levee Construction																										•	
Channel Improvement Projects																										•	
Detention Basins																										•	
Debris Basins																										•	
Ongoing Facility Maintenance																										•	
Removal of Hazards or Facilities from Floodways																										•	
Storm Monitoring and Modeling - Flows, Water Quality																										•	
Coordinated Hydrogeomorphic Modeling																				•		•				•	
Incentives for Landowners - Public/Private Partnerships																			•	•	•					•	
Evaluate Process for Reconstruction Following Emergencies (Floods, Landslides)																											
Public Information Programs Regarding Flood Prevention																										•	
Land Acquisition for Watercourse Expansion/Flood Management																			•		•					•	
Protect And Enhance Native Ecosystem Diversity																				•	•						
Control, Remove, and Prevent Invasive Species																				•	•						
Protect Existing Habitats from Degradation																				•	•						

UPPER SANTA CLARA RIVER REGION WATER MANAGEMENT STRATEGIES AND CALIFORNIA WATER PLAN RESOURCE MANAGEMENT STRATEGIES (CONT.)

	California Water Plan Strategies																												
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Urban Stream Restoration and Revitalization																				•		•				•	
Land Acquisition and/or Easements for Protection and Restoration of Habitat Areas Landscape Linkages/Wildlife Movement																				•	•	•					
Protect and Restore Fish and Wildlife Migration Corridors and Landscape Linkages; Where Necessary Create Or Modify Structures to Facilitate Fish and Wildlife Movement, such as Fish Ladders, Road Undercrossings, etc.																				•	•						
Restore Natural Hydrograph and Sediment Transport in Local Watercourses																				•						•	
Mitigation Banking																				•							
Integrated Watershed GIS "Spatial Database"																									•		
Identify and Collect Biological Resources Data for Comprehensive Database: 1) Ecosystem Function Analysis 2) Water Quantity and Quality Needs of Fish and Wildlife																				•					•		
Provide for Long-Term Stewardship of Natural Resources, Especially Public Land: Staff, Funding, Organizational Structure (District or Conservancy) Monitoring and Enforcement																				•					•		
Conservation Plans: 1) Evaluate Multiple Scale Habitat Needs of Aquatic and Riparian Dependent Species																				•					•		
Active and Passive Recreation Areas Related to Water Resources																				•				•			
Enhance Appropriate Public Access																				•		•	•	•	•	•	
Updates and Modifications to General Plan Policies																		•		•		•					
Watercourse Set-Back Ordinances or Policies																				•					•	•	
Riparian Corridor Buffers																				•							
Floodplain Development Restrictions																										•	
Sensitive Biological Areas Overlay Zones																				•							
Flood Hazard Mapping																										•	
Require Evaluation of Footprint Impacts in Newly Developing Areas																				•							
Create Incentives (Tax Credits) for Landowners to Protect and Restore Habitats and Ecosystems on Their Property																			•	•							
Agricultural Lands Stewardship																		•									
Post-Fire Rehabilitation															•		•										
Landscape Guidelines for Fuel Modification/Defensible Space in New Development																				•		•					

UPPER SANTA CLARA RIVER REGION WATER MANAGEMENT STRATEGIES AND CALIFORNIA WATER PLAN RESOURCE MANAGEMENT STRATEGIES (CONT.)

	California Water Plan Strategies																											
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Urban Landscape Management Planning																						•					
Open Space Acquisition/Purchase																				•		•	•				

Stakeholder Meeting, May 24, 2012

- Agenda
- PowerPoint Presentation: City of Santa Clarita Climate Action Plan
- Handout: Linkages between IRWMP Objectives, Strategies and Projects
- Handout: Upper Santa Clara River 2012 IRWMP Objectives Draft (with edits from March Stakeholder Meeting)
- Upper Santa Clara River 2012 IRWMP Objectives Draft (Results from May Stakeholder Meeting)

UPPER SANTA CLARA RIVER
Integrated Regional Water Management

Stakeholder Meeting
Thursday, May 24, 2012, 2:30 pm – 4:30 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Consultant Progress & Funding Updates
- Complete IRWMP Objectives Update
- Call for Projects

AGENDA

2:30	**I.**	**Welcome** *Lauren Everett, Castaic Lake Water Agency (CLWA)*
2:40	**II.**	**Presentation on the City of Santa Clarita Climate Action Plan** *David Peterson, City of Santa Clarita*
3:15	**III.**	**Consultant Progress Updates** A. IRWMP Update and Climate Change Technical Study B. Salt and Nutrient Management Plan *Meredith Clement, Kennedy/Jenks (KJ), Lauren Everett, CLWA*
3:25	**IV.**	**Funding Update** A. Planning Grant R1 & R2 B. R1 Implementation Grant *Lauren Everett, CLWA*
3:35	**V.**	**IRWMP Objectives** *Meredith Clement, KJ*
4:10	**VI.**	**Call for Projects** *Meredith Clement, KJ*
4:30	**VII.**	**Close**

City of Santa Clarita Climate Action Plan

May 24, 2012
IRWMP Stakeholder Meeting
Newhall County Water District

Introduction

- What is a Climate Action Plan (CAP)?
- Why is the City doing a CAP?
  - Assembly Bill 32
  - Office of the Attorney General
  - New General Plan
  - Local thresholds for environmental review of projects
- What if the City doesn't do a CAP?
  - Compliance Order

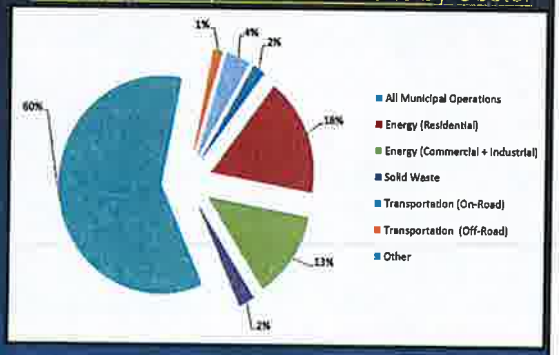
Climate Action Plan Contents

- Inventory
  - Establish base year emissions
- Forecast and Analysis
  - Compare base year emissions to forecast emissions
- Mitigation
  - Quantify strategies for reducing GHG emissions to achieve state mandate
- Monitoring
  - Plan for monitoring progress
- Outreach component
- ENVIRON International – Consultant

Inventory

- Establish base year emissions:
  - Base year of 2005 at the recommendation of CARB and SCAG
    - Why not 1990?
- Base Year Emissions of 1.71 mmtCO2e
  - What is mmtCO2e?

2005 (Baseline) GHG Emissions by Sector



Forecast and Analysis

- Compare base year emissions to forecast emissions - 2020:
  - Business as Usual (BAU): 1.98 mmtCO2e
  - BAU – "Big 3": 1.84 mmtCO2e
  - 120,562 mtCO2e between 2005 and 2020 to mitigate

Mitigation

- Quantify strategies for reducing GHG emissions to achieve state mandate
- New General Plan Goals, Objectives and Policies & Existing City Programs since 2005
- Forecast Emission Reductions (in mmtCO2e):
  - VMT Reduction & Land Use – 124,631
  - Open Space Acquisition & Tree Planting - 40,083
  - Water Efficiency – 21,507
  - Energy Conservation – 6,085
  - Total GHG Reductions: 193,020 mtCO2e
- Net 2020 Emissions: 1.65 mmtCO2e

Monitoring

- Will develop performance measures based on goals, objectives and policies included in the General Plan
- Progress reports created every four years
  - Annexations included
- Update of greenhouse gas inventory and mitigation measures every eight years

Implementation

- All development must be consistent with the CAP
  - Will require General Plan Amendments, Zone Changes and some larger development projects to demonstrate a 12% reduction of GHG emissions from "business as usual"

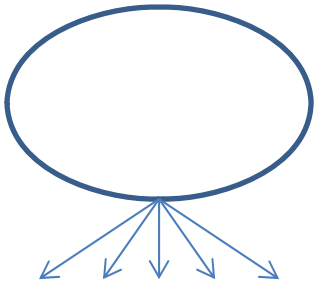
Tentative Public Process Calendar

- 30 Day Public Review – May 17th to June 18th
  - Required by CEQA
  - Negative Declaration
  - CAP Document will be available on: http://www.greensantaclarita.com/climate-action-plan.asp
- Planning Commission – June 19th
- City Council – August 28th

Questions

David Peterson
Assistant Planner II
City of Santa Clarita, Planning Division
(661) 284-1406
dpeterson@santa-clarita.com

Linkage between IRWMP Objectives, Strategies and Projects

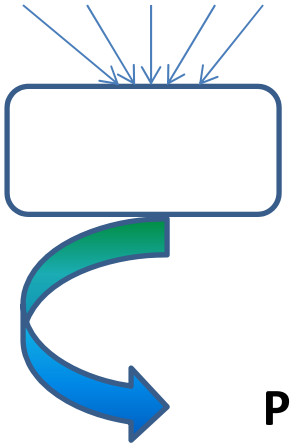


Regional needs, issues and goals the IRWMP addresses

Ex. Increase water supply

General means for addressing identified needs and achieving broad objectives

Ex. Groundwater replenishment; increase recycled water use; removal of invasive plants



Specific implementable means of carrying out strategies and ultimately realizing objectives

Ex. SCR San Francisquito Creek Arundo and Tamarisk Removal Project

Project evaluation and prioritization based in part on applicability to regional objectives

UPPER SANTA CLARA RIVER 2012 IRWMP OBJECTIVES
(WITH DEFINITIONS AND MEASUREMENTS)

Objective	Measurement
Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	Twenty (20)~~Ten (10)~~ percent overall reduction in projected potable~~urban~~ water demand throughout the Region by 2020~~30~~ through implementation of water conservation measures. ~~Replace up to 4,300 outdated water meters per year.~~
~~***Improve Operational Efficiency**: Maximize water system operational flexibility and efficiency, including energy efficiency.~~	~~With assistance of local energy utility, perform electrical audit on all wholesale and purveyor water facilities once every five years.~~ ~~Reduce, on an agency-by-agency basis, energy use per acre-foot treated and delivered.~~
***Increase Water Supply**:* Understand future regional demands and obtain necessary water supply sources.	Increase use of recycled water by up to ~~17,400~~9,600 AFY by 2030, consistent with health and environmental requirements. Improve water system operational flexibility and efficiency. ~~Implement long-term transfer and exchange agreements for imported water with other water agencies, up to 4,000 AFY by year 2010 and 11,000 AFY by year 2030.~~ Increase water supply as necessary to meet anticipated peak demands at buildout in the LACWWD No. 37 service area (~~≈0.74~~7.91 mgd) and peak demands at buildout in the Acton and Agua Dulce areas (up to 12.16 mgd). ~~Capture and recharge 5,000 to 10,000 AFY of urban and storm water runoff in a manner consistent with the pending update to the regional groundwater flow model and Basin Yield Study..~~
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Meet all drinking water standards. Prevent migration of contaminant plumes. Comply with ~~existing and future~~ TMDLs.
***Promote Resource Stewardship**:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	In areas of the floodplain where invasive species have taken hold, reduce invasive species to 40 percent or less cover of the understory and canopy in years 1 to 5. Every five (5) years reduce by half the percentage of invasive species. In years 20 and beyond, keep invasive species to 2 percent or less. Keep invasive species to 2 percent or less in the upper reaches and tributaries where little to no invasive plants are currently located. Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage. (To date, 6,100 acres have been conserved) Purchase private property from willing sellers in the 100-year floodplain. Acquire up to 12 miles along the Santa Clara River for development as a recreational trail/park corridor.
Flooding/Hydromodification	???
Take actions within the watershed to adapt to climate change	Identify and implement "no regret" strategies for flood management, water supply, water quality, water dependent recreation, water-dependent habitat, and fire risk.

Objective	Measurement
Promote projects and actions that reduce greenhouse gas (GHG) emissions	Prioritize development and use of water sources with lowest GHG emissions. Identify and implement the use of renewable energy and conservation of energy within water and wastewater systems. With assistance of local energy utility, perform energy audits on all water-related facilities regularly. Reduce, on an agency-by-agency basis, energy use per volume treated or delivered.

UPPER SANTA CLARA RIVER 2012 IRWMP OBJECTIVES (WITH DEFINITIONS AND MEASUREMENTS)

Objective	Measurement
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***Promote Resource Stewardship**:* Preserve and improve ecosystem health; ~~improve flood management~~; and preserve and enhance water-dependent recreation.	In areas of the floodplain where the majority of plant species are invasive ~~species have taken hold~~, • Rreduce invasive plant species to 40 percent or less cover of the understory and canopy in years 1 to 5. • Every five (5) years thereafter reduce by half the percentage of invasive plant species. • In years 20 and beyond, keep invasive plant species to ~~2~~ 5 percent or less. • ~~—~~Keep invasive plant species to 2 percent or less in the upper reaches and tributaries where little to no invasive plants are currently located. Acquire acreage or conservation easements for 10,900 acres of remaining proposed South Coast Missing Linkage. Purchase private property from willing sellers in the 100-year floodplain. Acquire up to 12 miles along the Santa Clara River for development as a recreational trail/park corridor.

Objective	Measurement
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River. *This objective still under review*	Implement EPA recommended bioengineering techniques and reduce hydromodification in existing urban areas. Address reduction of impervious areas within the unincorporated area of Los Angeles County. Increase a percent of pervious surface.
Take actions within the watershed to adapt to climate change	~~Identify and~~ implement ~~"no regret"~~ strategies that adapt ~~for~~ flood management, water supply, water quality, water dependent recreation, water-dependent habitat, and fire risk for climate change, but also have other benefits that would occur in the absence of climate change ("no regret strategies").
Promote projects and actions that reduce greenhouse gas (GHG) emissions	Prioritize development and use of water sources with lowest GHG emissions. Identify and implement the use of renewable energy and conservation of energy within water and wastewater systems. With assistance of local energy utility, perform energy audits on all water-related facilities regularly. Reduce, on an agency-by-agency basis, energy use per volume treated or delivered.

Stakeholder Meeting, July 26, 2012

- Agenda
- PowerPoint Presentation: Highlights of Proposition 84 and 1E 2012 Draft Guidelines and PSPs
- Handout: Upper Santa Clara River 2012 IRWMP Objectives
- Upper Santa Clara River 2012 IRWMP Objectives (finalized)
- Handout: Project Prioritization Schedule
- Handout: Proposed Project Scoring and Ranking Methodology (with edits from July Stakeholder Meeting)
- Handout: Summary of Major Water Issues and Problems

UPPER SANTA CLARA RIVER
Integrated Regional Water Management

Stakeholder Meeting
Thursday, July 26, 2012, 2:30 pm – 4:30 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Consultant Progress & Funding Updates
- Develop strategy for evaluating IRWMP projects
- Update Plan's discussion on regional water issues

AGENDA

2:30	**I.**	**Welcome** *Lauren Everett, Castaic Lake Water Agency (CLWA)*
2:40	**II.**	**Santa Clarita Environmental Education Consortium** *Jia-Yi Cheng-Levine, Ph.D., College of the Canyons*
3:00	**III.**	**Consultant Progress Updates** A. IRWMP Update and Climate Change Technical Study ▪ Flood Control Objective B. Salt and Nutrient Management Plan *Meredith Clement, Kennedy/Jenks (KJ), Lauren Everett, CLWA*
3:10	**IV.**	**Funding Update** A. Planning Grant R1 & R2 B. Implementation Grant R1 & R2 ▪ New Draft Guidelines and Proposal Solicitation Packages *Lauren Everett, CLWA, Meredith Clement, KJ*
3:30	**V.**	**2nd Solicitation - Call for Projects** *Lauren Everett, CLWA*
3:40	**VI.**	**Project Scoring/Project Prioritization** *Meredith Clement, KJ*
4:10	**VII.**	**Discussion on Summary of Major Water Issues and Problems** *Meredith Clement, KJ*
4:30	**VIII.**	**Close**

Upper Santa Clara IRWMP

Highlights of Proposition 84 and 1E 2012 Draft Guidelines and PSPs

Funding

Proposition 84

- $31,294,000 available for Los Angeles-Ventura
- Funding Match: 25%
  - Waivers possible for DAC projects

Proposition 1E Stormwater Management

- Maximum grant amount: $30M
- Funding Match: 50%

Approximate Schedule
Prop 84 Implementation

Applicant Workshops	January 2013
Application Deadline	**March 2013**
Public Meeting on Funding Recommendations	August 2013
DWR Approval of Final Grant Awards	September 2013

Approximate Schedule
Prop 1E Stormwater

Applicant Workshops	November 2012
Application Deadline	**December 2012**
Public Meeting on Funding Recommendations	May 2013
DWR Approval of Final Grant Awards	July 2013

Changes to Plan Standards

- Reduce dependence on Delta
- More detailed Climate Change vulnerability assessment
  - Climate Change Handbook
  - California Ocean Protection Council
  - No more initial "no regret" strategies

Eligible Grant Projects

Proposition 84

- Projects shall address at least one of the criteria included in 2010, such as
  - Water supply reliability, stormwater capture, watershed protection, etc.
- Must be implementation projects
  - DAC projects may include studies

Proposition 1E

- Must yield multiple benefits

Grant Project Eligibility Criteria

- Consistency with adopted IRWMP
- Proponents must adopt the IRWMP **New**
- GWMP , UWMP, AB1420
- Agriculture WMP **New**
- Surface Water Diversion Reporting **New**
- Water Meter Requirements
- Groundwater monitoring – CASGEM
- IRWMP must reduce dependence on Delta supplies (Prop 84) **New**

Grant Application Attachments

- 13 attachments, 7 are scored

Criteria/Attachment	Maximum Points
Work Plan	15
Budget	5
Schedule	5
Monitoring, Assessment and Performance Measures	5
Technical Justifications	10
Benefits Costs Analysis	30
Program Preferences	10
Total	80

Benefit Cost Analysis Update

- Analysis completed for each project
- Evaluation done cumulatively
- Scoring based on magnitude of benefits and quality of analysis
- DWR method or RWMG method
- Different Benefit Cost Analysis options depending on project or benefit type

NEW

Application Attachments New

Technical Justification

- Measures of project accomplishments
- Scoring based on benefits, not magnitude
- Documentation may include technical reports, feasibility studies, expert opinion, etc.

THANK YOU

UPPER SANTA CLARA RIVER 2012 IRWMP OBJECTIVES (WITH DEFINITIONS AND MEASUREMENTS)

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Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River. ~~*This objective still under review*~~ *(quantitative analysis of measurement targets will be development during the plan update)*	~~Implement EPA recommended bioengineering techniques~~Meet state permits and policies related to stormwater management. ~~Address reduction of~~Reduce impervious area~~s~~ within the watershed. ~~within the unincorporated area of Los Angeles County.~~ ~~Increase a percent of pervious surface.~~ Promote low impact development and green streets

Objective	Measurement
Take actions within the watershed to adapt to climate change	Implement strategies that adapt flood management, water supply, water quality, water dependent recreation, water-dependent habitat, and fire risk for climate change, but also have other benefits that would occur in the absence of climate change ("no regret strategies").
Promote projects and actions that reduce greenhouse gas (GHG) emissions	Prioritize development and use of water sources with lowest GHG emissions. Identify and implement the use of renewable energy and conservation of energy within water and wastewater systems. With assistance of local energy utility, perform energy audits on all water-related facilities regularly. Reduce, on an agency-by-agency basis, energy use per volume treated or delivered.

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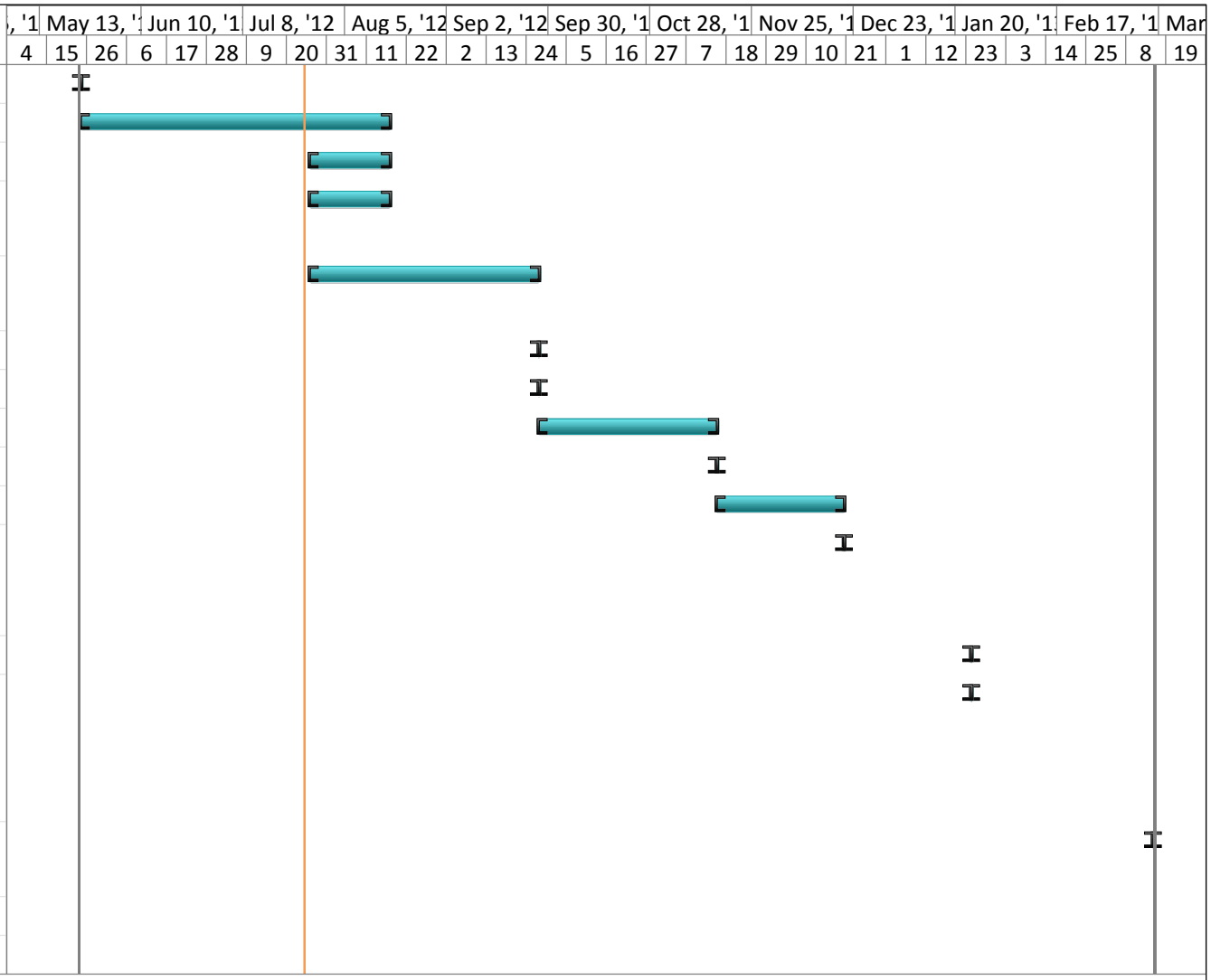
Flooding/Hydromodification: Reduce flood damage and/or the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Meet state permits and policies related to stormwater management. Reduce impervious area within the watershed. Promote low impact development, green streets and other stormwater recharge projects
Take actions within the watershed to adapt to climate change	Implement strategies that adapt flood management, water supply, water quality, water dependent recreation, water-dependent habitat, and fire risk for climate change, but also have other benefits that would occur in the absence of climate change ("no regret strategies").

Objective	Measurement
Promote projects and actions that reduce greenhouse gas (GHG) emissions	Prioritize development and use of water sources with lowest GHG emissions.
	Identify and implement the use of renewable energy and conservation of energy within water and wastewater systems.
	With assistance of local energy utility, perform energy audits on all water-related facilities regularly.
	Reduce, on an agency-by-agency basis, energy use per volume treated or delivered.

ID	Task Name	Start
1	**Stakeholder Meeting**	Thu 5/24/12
2	Solicit Call for Projects	Thu 5/24/12
3	**Stakeholder Meeting**	Thu 7/26/12
4	2nd Call for Projects Solicitation	Thu 7/26/12
5	Project Scoring/Project Prioritization	Thu 7/26/12
6	**Stakeholder Meeting**	Thu 9/27/12
7	Project Presentations	Thu 9/27/12
8	Project Integration	Thu 9/27/12
9	**Stakeholder Meeting**	Thu 11/15/12
10	Project Ranking	Thu 11/15/12
11	RWMG Selects Initial Suite of Projects for Round 2 Funding	Thu 12/20/12
12	**Stakeholder Meeting**	Thu 1/24/13
13	Review of Proposed Round 2 Prop 84 Implementation Projects	Thu 1/24/13
14	**Prop 84 Implementation Grant Due**	Fri 3/15/13
15		
16		



Project: Project Prioritization Sche
Date: Wed 7/25/12

Task	External Milestone		Manual Summary Rollup
Split	Inactive Task		Manual Summary
Milestone	Inactive Milestone		Start-only
Summary	Inactive Summary		Finish-only
Project Summary	Manual Task		Deadline
External Tasks	Duration-only		Progress

Upper Santa Clara River Integrated Regional Water Management Plan

Proposed Project Scoring and Ranking Methodology

Projects will receive a score based on the point system described in the table below. Projects receiving the highest number of points will have priority for implementation.

Criterion	Possible Points
Project and Project Applicant Eligible	Pass/Fail Criteria If project affects groundwater: (1) There must be a GWMP prepared an implemented in compliance with CWC §10753.7 or applicant consents to be subject to a GWMP or other program that meets the requirements of CWC §10753.7. (2) Or the proposal must include development of a GWMP within 1 year of grant submittal date. (3) Or the project conforms to requirements of an adjudication of water rights in the subject groundwater. *If no to all 3 = Fail* If project proponent or project beneficiary is Urban Water Supplier: (1) They must have completed and submitted an Urban Water Management Plan (2) And be incompliance with AB1420 (3) And meet water meter requirements (CWC §525) *If no to any of the three = Fail* 5 points if Project Proponent has adopted or will adopt the Integrated Plan
Readiness to Proceed	25 points for each item below, up to ~~Up to~~ 200 points ~~based on the following~~: ~~200~~ Local Cost Share Confirmed ~~and items below completed~~ ~~180~~ Construction Drawings ~~and items below~~ completed ~~150~~ Permits ~~and all items below~~ completed ~~120~~ CEQA/NEPA ~~and all items below~~ completed ~~100~~ Project benefits and costs defined at a level of detail that will allow cost-effectiveness analysis or benefit-cost analysis ~~90~~ Preliminary Design and Cost Estimates ~~and all items below~~ complete ~~60~~ Feasibility ~~and all items below~~ complete ~~30~~ Conceptual Plans complete
Addresses Multiple Objective	15 points for each objective addressed, up to 100 points
Integrates Multiple Resource Management Strategies	5 points for each applicable Resource Management Strategy, up to 100 points
Benefits a Disadvantaged Community/Increases Disadvantaged Community Participation	Yes = 50 points No = 0 points
Addresses Critical Water Issues for Native American Tribal Communities	Yes = 50 points No = 0 points If Native American Tribal Community Qualifies as DAC, points will be awarded per box above and this box will not apply.
Environmental Justice Concerns	50 points~~–~~ Project redresses inequitable distribution of environmental burdens
Consistent with Local Land Use Plans	Yes = 100 points No = 0 points
Improves Interregional Coordination	Yes = 100 points No = 0 points
Tie – Breaker Points	For any projects ranked in the top 15 with the same score the following points will be awarded: 10 pts Project with lower cost per acre-foot of water conserved 10 pts Project with the greatest reduction in electrical/energy use per acre-foot of water 10 pts Project with lower cost per new acre-foot of water supply 10 pts Project with lower cost per acreage of habitat improved 10 pts Project with lower cost for per unit of flood reduction

Summary of Major Water Issues and Problems – from 2008 IRWMP

Over the course of the series of Stakeholder meetings, many issues and topics were discussed. However, many of the issues raised can be summarized into five themes:

- Continued growth in water demand while imported water supplies become less reliable.
- Difficulty in maintaining open space and habitat areas given population growth and increased urbanization.
- Variety of water quality issues, including perchlorate contamination, and TMDLs for chloride and nitrate compounds.
- Runoff and drainage issues in the more rural areas that result in negative effects to the rural areas and areas downstream.
- Runoff and drainage issues related to urbanizing areas in the floodplain.

Major Water Issues and Problems – IRWMP Update (Proposed)

- Continued growth in water demand while imported water supplies become less reliable.
- Difficulty in maintaining open space, habitat areas, and groundwater infiltration areas given population growth and increased urbanization.
- High cost of producing and supplying recycled water.
- Variety of water quality issues, including chloride and nitrate compounds, as well as the ongoing cost of monitoring and treating perchlorate contamination.
- Runoff and drainage issues in the more rural areas that result in negative effects to the rural areas and areas downstream.
- Runoff and drainage issues related to urbanizing areas in the floodplain. Increased regulatory compliance burden to limit pollution in stormwater runoff.

Stakeholder Meeting, September 27, 2012

- Agenda
- Stakeholder Project Presentations/Handouts:
    - LACDPW
    - NCWD
    - SCWD
    - SCVSD

UPPER SANTA CLARA RIVER
Integrated Regional Water Management

Stakeholder Meeting
Thursday, September 27, 2012, 2:30 pm – 4:30 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Consultant Progress & Funding Updates
- Stakeholder Project Presentations

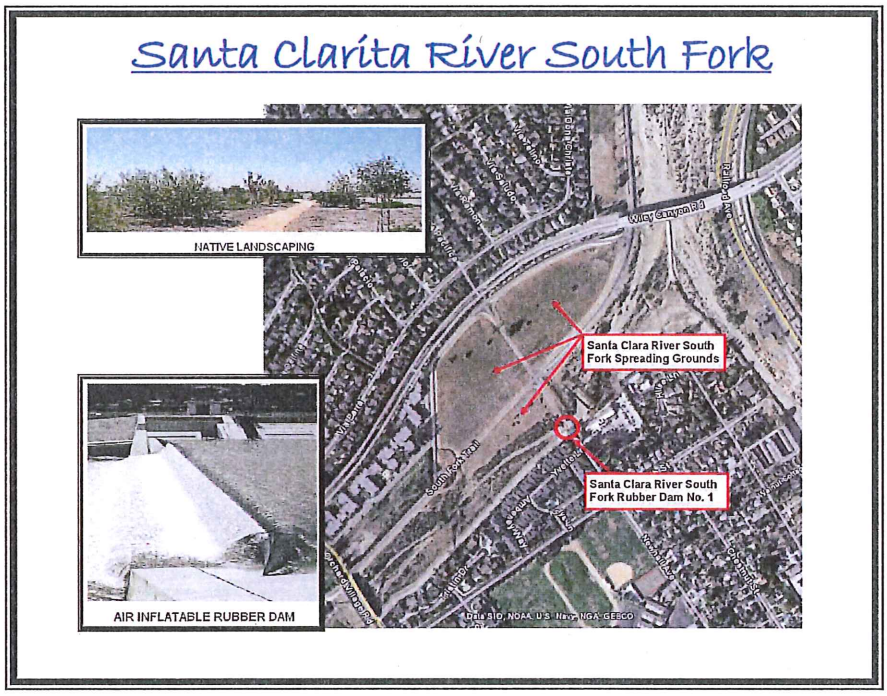
AGENDA

2:30	**I.**	**Welcome** *Lauren Everett, Castaic Lake Water Agency (CLWA)*
2:35	**II.**	**Consultant Progress Updates** A. IRWMP Update and Climate Change Technical Study B. Salt and Nutrient Management Plan *Meredith Clement, Kennedy/Jenks (KJ), Lauren Everett, CLWA*
2:45	**III.**	**General Updates** A. Planning Grant R1 & R2 B. Implementation Grant R1 & R2 C. Next joint meeting with lower Santa Clara River watershed stakeholder group – November 1, 2012 D. DWR sponsored one-day IRWMP interactive workshops *Lauren Everett, CLWA*
3:00	**IV.**	**Stakeholder Presentations** *Los Angeles County Department of Public Works, Santa Clarita Water Division, Newhall County Water District, Santa Clarita Valley Sanitation District*
4:30	**VIII.**	**Close -** next meeting date: October 25, 2012

SANTA CLARA RIVER SOUTH FORK RUBBER DAM NO. 1 AND SPREADING GROUNDS

WHAT

The South Fork of the Santa Clara River joins the main Santa Clara River just east of the McBean Parkway crossing and turns south and then southwest to it's headworks near the Interstate 5 crossing on the southwestern part of the City of Santa Clarita. The Los Angeles County Flood Control District proposes to install a rubber dam in the Santa Clara River South Fork and divert water to a new adjacent recharge facility.



WHY

Rubber dams will greatly increase groundwater recharge from local storm water. This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at diversion facilities. The river has recreation in the form of bike paths along river and additional recreation These areas are adjacent to power line easements which may provide an opportunity for habitat restoration..

WHEN

The design phase was completed in March 2012. Environmental permits and land easements will need to be obtained. The construction phase could begin in the summer of 2014.

WHERE

Los Angeles County Supervisorial District 5

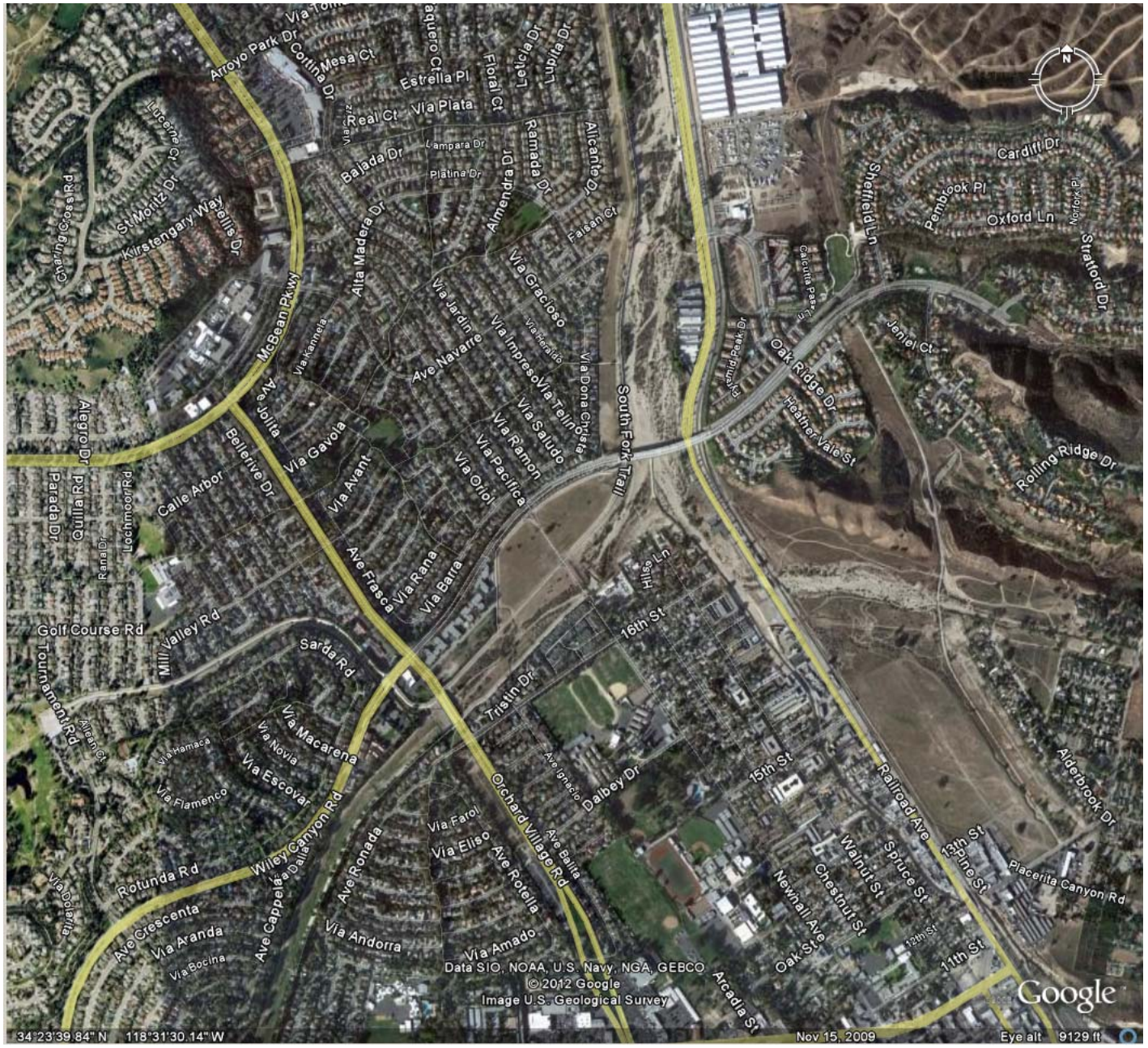
Preliminary Construction Cost Estimates: $4 - $6 million

Cost sharing Partners & Funding Opportunities

LA County Flood Control District; Possible grant funding from IRWMP

Santa Clara River South Fork Rubber Dam No. 1 & Spreading Grounds

Los Angeles County Flood Control District
Water Conservation Planning Section


Arroyo Park Dr
Cortina Mesa Ct
Cortina Dr
Estrella Pl
Floral Ct
Via Real Ct
Via Plata
Baja Dr
Lampara Dr
Platina Dr
Ramada Dr
Alicante Dr
Faisan Ct
Alta Madera Dr
Via Jardin
Ave Navarre
Via Gracioso
Via Impreso
Via Telinda
Via Saludo
Via Ramon
Via Pacifica
Via Oriol
Via Dona Chosa
Via Herrado
Via Kanimera
McBean Pkwy
Ave Jolita
Via Gavola
Via Avant
Ave Fresca
Via Rana
Via Barra
South Fork Trail
Oak Ridge Dr
Jeniel Ct
Heather Vale St
Rolling Ridge Dr
Cardiff Dr
Pembrook Pl
Oxford Ln
Norfolk Pl
Stratford Dr
Sheffield Ln
Calcutta Park Dr
Redmond Peak Dr
Allegro Dr
Bellerive Dr
Calle Arbor
Lochmoor Rd
Parada Dr
Quillin Rd
Rana Dr
Golf Course Rd
Mill Valley Rd
Tournament Rd
Alfaro Ct
Sarda Rd
Tristin Dr
16th St
Hillgate Ln
Via Macarena
Via Novia
Via Hamaca
Via Escovar
Via Flamenco
Wiley Canyon Rd
Orchard Village Rd
Ave Ignacio
Dalbey Dr
15th St
Railroad Ave
Alderbrook Dr
Placerita Canyon Rd
Via Farol
Via Eliso
Ave Rotella
Ave Ronada
Ave Cappella Dalia
Ave Bailia
Rotunda Rd
Via Dolarita
Ave Crescenta
Via Aranda
Via Bocina
Via Andorra
Via Amado
Walnut St
Spruce St
Chestnut St
Newhall Ave
Oak St
Pine St
12th St
11th St
Arcadia St
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
©2012 Google
Image U.S. Geological Survey
Google
34°23'39.84" N 118°31'30.14" W
Nov 15, 2009
Eye alt 9129 ft

Proposed Water Recharge Project: Location Map

Existing Drop Structure at Rubber Dam Location No. 1 (Looking Upstream)

Pedestrian Bridge and Bike Trail at Dam Location No. 1 (Looking Downstream)

Existing Drop Structure at Rubber Dam Location No. 1 (Looking Upstream)

East Side Slopes Downstream of the Pedestrian Bridge (Looking Downstream)

Stream Bed and Proposed Location of Rubber Dam No. 1 (Looking Downstream)

Aerial Photo (Looking North)

Aerial Photo (Looking East)

Streamgaging Station in the River

Castaic Lake Water Agency Newhall County Water District
Los Angeles Waterworks District 36 Santa Clarita Water Division Valencia Water Company
Upper Santa Clara River Integrated Regional Water Management Plan
Project – Santa Clarita Valley Residential Turf Removal Program

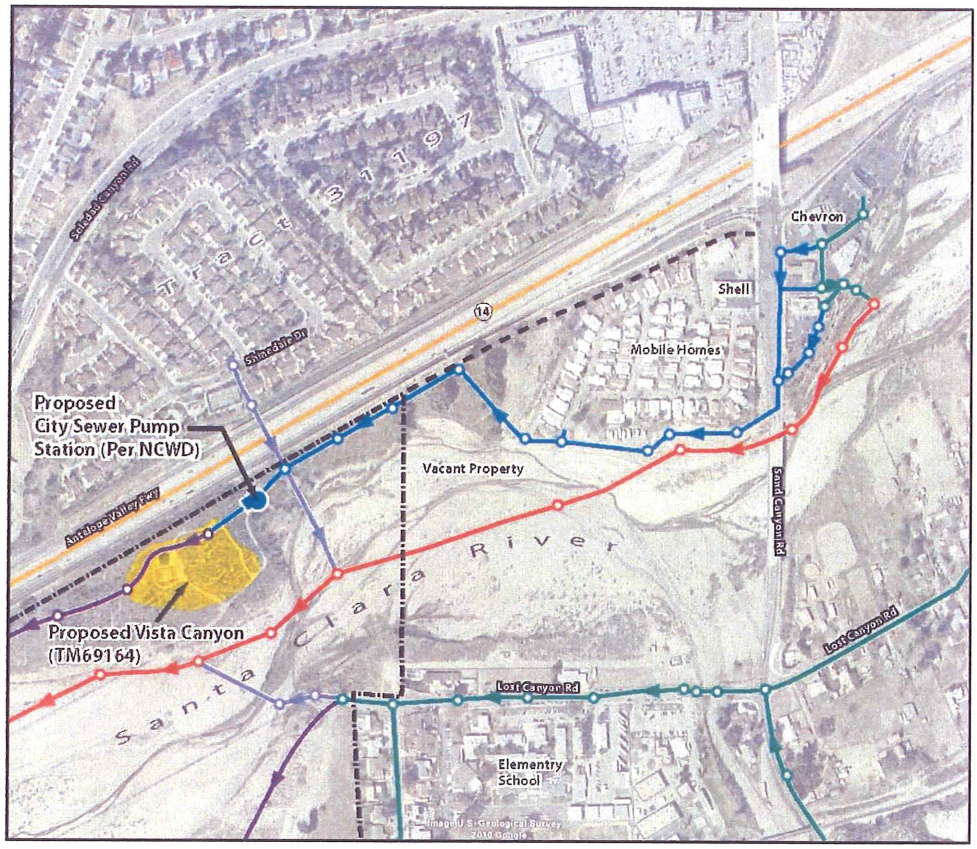
Readiness to Proceed

The project would offer residential customers a rebate of $1.00 per sq ft of turf removed up to $1,500 per residence. All water agencies have agreed to participate in the program.

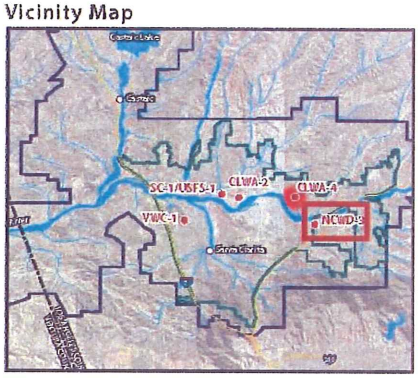
IRWMP Objectives Addressed – Phase 2 & 3 (Construction)

1. *Reduce Potable Water Demand* – The program would reduce potable water usage by 20 – 21 ac ft in year 1 and 40 – 42 ac ft in year 2.
2. *Flooding Hydromodification* – the program would reduce the amount of irrigation runoff from over watering turf.

Newhall County Water District
Upper Santa Clara River Integrated Regional Water Management Plan
Project – Sewer Trunk Line Relocation Phase II and III



Vicinity Map



Current Project Status – Phase 1 (Design and Permitting)

1. Engineering firm selected
2. Cursory review of alternatives to a sewer lift station underway
3. Discussions underway regarding areas requiring easements

Readiness to Proceed – (At Completion of Phase 1)

1. Local Cost Share – NCWD will budget for the shared portion
2. Phase 1 includes – construction drawings, permitting, CEQA, and cost estimates
3. Consistent with Land Use Plans

IRWMP Objectives Addressed – Phase 2 & 3 (Construction)

1. *Increase Water Supply* – the avoidance of lost groundwater supply in the event of a sewer break located in the Santa Clara River
2. *Improve Water Quality* – the avoidance of groundwater quality degradation in the event of a sewer break in the Santa Clara River
3. *Promote Resource Stewardship* – the avoidance of wildlife and riparian habitat exposure to raw sewage in the event of a sewer break in the Santa Clara River.

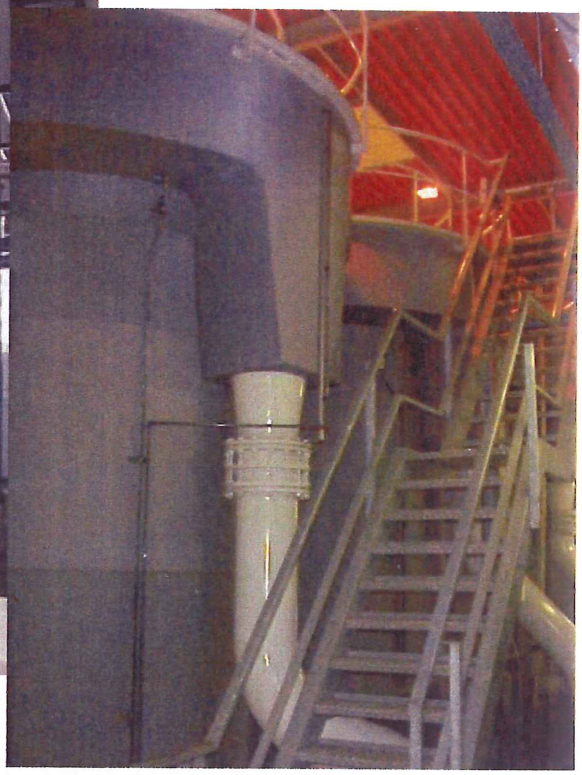
Newhall County Water District
Upper Santa Clara River Integrated Regional Water Management Plan
Project – Pellet Water Softening Treatment Plant Phase 1

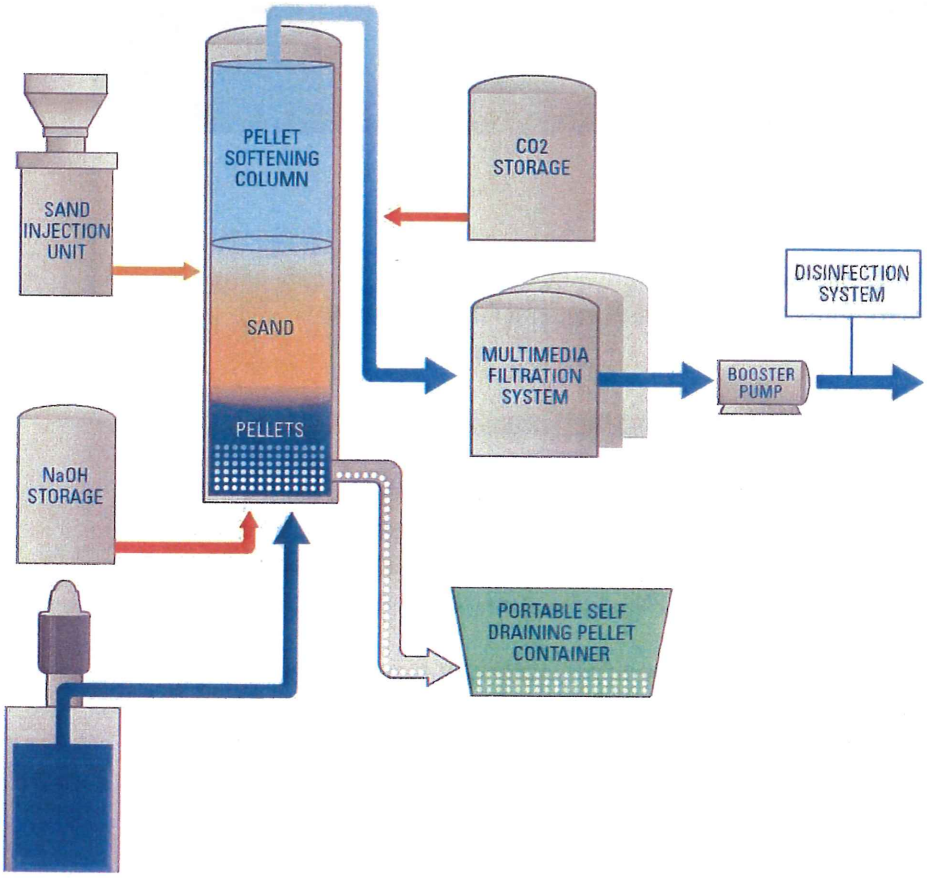
Readiness to Proceed – (Current Status)

1. Local Cost Share – NCWD will budget for the shared portion
2. Phase 1 will provide a feasibility report, conceptual design, and cost estimates
3. Consistent with Land Use Plans

IRWMP Objectives Addressed – Phase 1 (Feasibility, Conceptual Design, and Cost Estimates)

1. *Reduce Potable Water Demand* – hard water contributes to the inefficiency of appliances and the increased use of detergents and soaps resulting in additional water use
2. *Improve Water Quality* – improves the aesthetic quality of water improving customer satisfaction and longer lasting appliances. In addition, reduction in the number of POU softeners.
3. *Promote Resource Stewardship* – eliminates the need for water softeners and would help remove the remaining SRWS currently in use
4. *Reductions in GHG* – reduce the number of exchange canister water softeners therefore reducing the number of vehicles on the road exchanging these devices





BENEFITS:

Softer water
Less detergent and soap use
Reusable by-product
Eliminates need for POU Softeners
More efficient than POU Softeners
Cost Effective

SCWD Water Use Efficiency Strategic Plan

IRWMP Proposition 84 Round 2
Implementation Funding

SCWD Water Use Efficiency Strategic Plan

- Completed July 2012
- Strategy to provide tools, incentives and education needed to promote WUE and affect behavioral changes
- Targeted a suite of programs to achieve 20% by 2020 goal
- Designed to be implemented immediately
- All programs were vetted for cost effectiveness

Project Need

- Valleywide WUE SP was completed in 2008
- Acts as “umbrella” of projects for all areas of the Valley where all purveyors are involved
- The SCWD WUE Plan focuses on additional conservation programs needed to fill gaps
- Together, both plans work toward achieving SBX7-7 goal of reducing water demand by 20% by 2020 and promoting stewardship of our water resources

Project Description

- Create incentives and develop outreach programs to encourage behavioral changes
- Ten programs that after implementation will save over 4400 AF by 2020:
  - Residential Audits
  - Low-Flow Showerhead Distribution
  - Ultra-High Efficiency Toilet Distribution
  - MF/Institutional HE Toilets (and direct install)
  - Turf Removal
  - High Efficiency Nozzles Distribution
  - Large Landscape WBIC Direct Install
  - Residential/Commercial Rebate Program
  - Large Landscape Water Budgets

IRWMP Objectives Addressed

- Reduce Potable Water Demand
- Increase Water Supply
- Improve Water Quality
- Promote Resource Stewardship
- Promote Projects and Actions That Reduce Greenhouse Gas (GHG) Emissions

Project Readiness

- Project is ready to implement
- Currently implementing 3 of 10 programs:
  - Low-flow showerheads
  - HE irrigation sprinkler nozzles
  - HET and HEW rebates

Project Ranking

- Eligibility – Yes
- Readiness to proceed – 100 of 200 possible points
- Multiple Objectives – 75 of 100 points
- Multiple Resource Mgmt Strategies – 8 total; 40 points
- DACs, Native Americans and Environmental Justice Concerns – NA
- Consistent with Land Use Plans – Yes, 100 points
- Improves Interregional Coordination – No

SANITATION DISTRICTS OF LOS ANGELES COUNTY

USCR IRWMP
Stakeholder Meeting

SCVSD Project Presentations

Santa Clarita Valley Sanitation District

Upper Santa Clara River Total Maximum Daily Load

-
-
-
-


Santa Clara River

SCVSD-1

Automatic Water Softener Rebate and Public Outreach Program

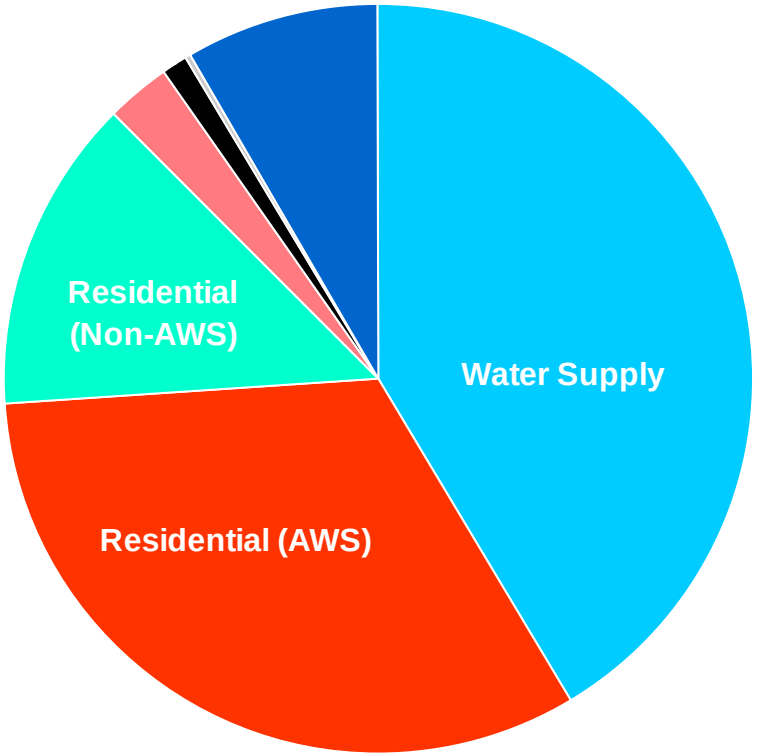
Automatic Water Softener Rebate Program – Phase II

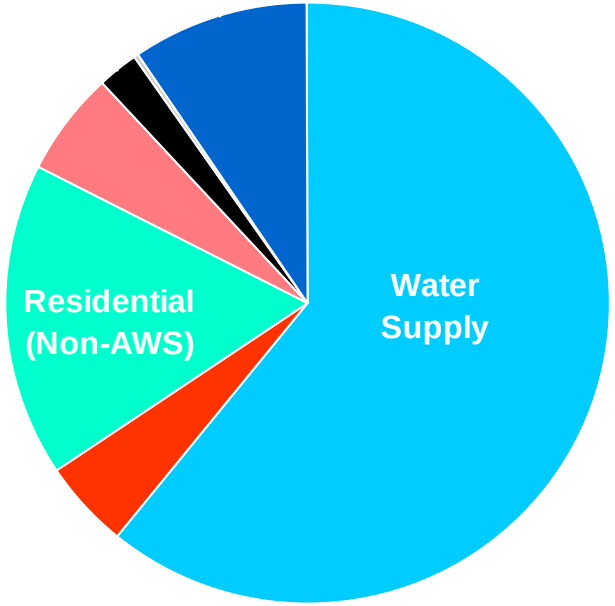
Results To Date

Public Outreach Element (through September 15, 2012)	AWS Removed
Phase I & II Rebate Program Removals	7,070
Rental AWS Removals	835
TOTAL REMOVALS	**7,905**
ESTIMATED REMAINING AWS in OPERATION	**500**

Water Softener Ban Success

Percent Chloride Contribution Reduced from 33% to 5%





SCVSD-1 Project

SCVSD-1 Project (Cont)

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-
  -
  -
-
-

IRWMP Objectives Addressed by Project

IRWMP Resource Management Strategies

-

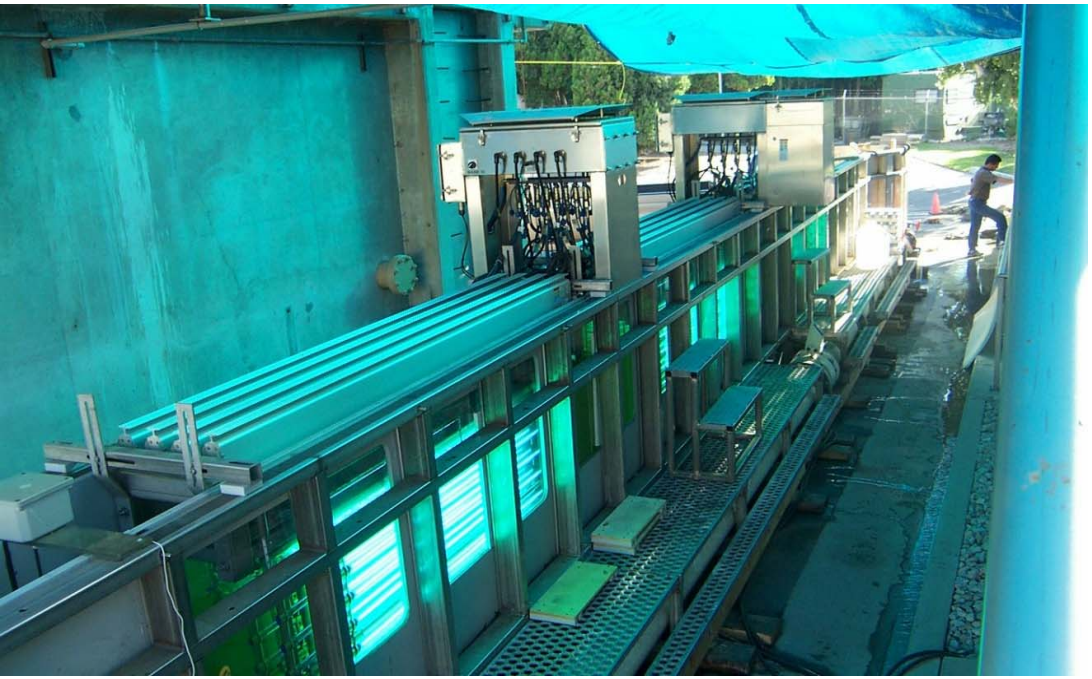
-

SCVSD-2

Saugus Water Reclamation Plant

Ultraviolet Light Disinfection Facility

Ultraviolet Light (UV) Disinfection



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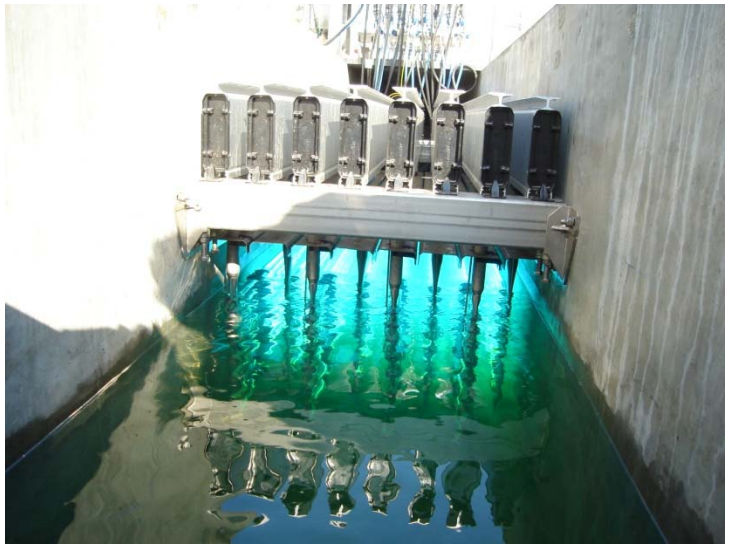


Saugus WRP Layout

Proposed UV Facility Location

Replacing Chlorination with UV light disinfection

-
-

IRWMP Objectives Addressed by Project

-
-
-
-

IRWMP Resource Management Strategies

-

-

Stakeholder Meeting, October 25, 2012

- Agenda
- Stakeholder Project Presentations:
    - Bouquet Canyon Network
    - City of Santa Clarita
    - CLWA

UPPER SANTA CLARA RIVER
Integrated Regional Water Management

Stakeholder Meeting
Thursday, October 25, 2012, 2:30 pm – 4:30 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Consultant Progress & Funding Updates
- Stakeholder Project Presentations

AGENDA

2:30	**I.**	**Welcome** *Lauren Everett, Castaic Lake Water Agency (CLWA)*
2:35	**II.**	**Consultant Progress Updates** A. IRWMP Update and Climate Change Technical Study B. Salt and Nutrient Management Plan *Meredith Clement, Kennedy/Jenks (KJ), Lauren Everett, CLWA*
2:45	**III.**	**General Updates** A. Planning Grant R1 & R2 B. Implementation Grant R1 & R2 C. DWR IRWMP interactive workshop – November 1, 2012 D. Next joint meeting with lower Santa Clara River watershed stakeholder group – November 8, 2012 *Lauren Everett, CLWA*
3:00	**IV.**	**Stakeholder Presentations** A. Recap of September Presentations B. New Presentations *Agricultural Access/Bouquet Canyon Network, City of Santa Clarita, Castaic Lake Water Agency*
4:30	**VIII.**	**Close**

Bouquet Canyon Creek Restoration Project

Upper Santa Clara River Integrated Regional Water Management Plan

Who, What, Why, Where, & How

Bouquet Canyon Network

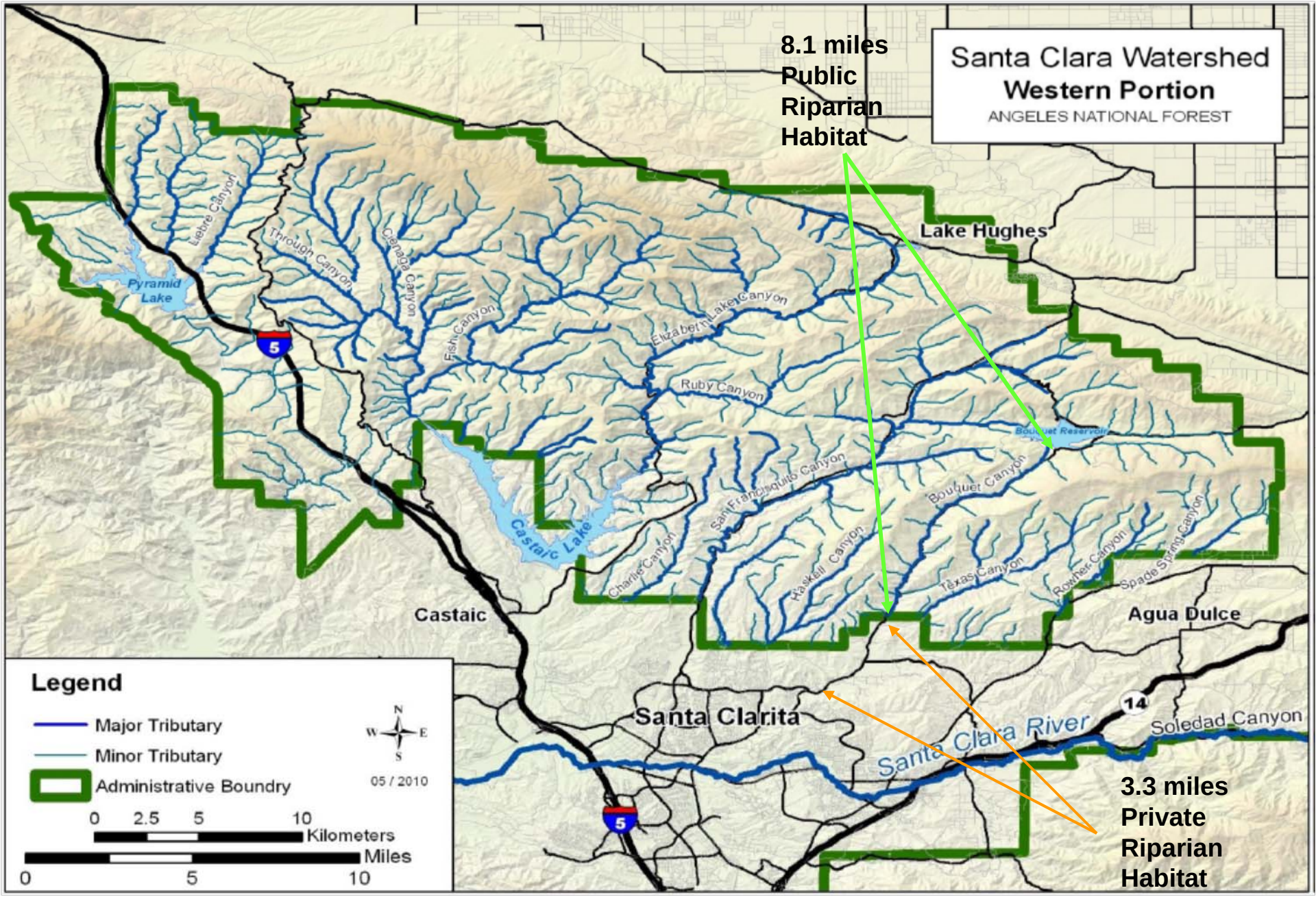
Fall 2012

Who is concerned?

- Bouquet Canyon Private Property Owners (BCN)
- Natural Resources Conservation Service(NRCS)
- LA County Fire (Bouquet Canyon Unit)
- AV Resource Conservation District (RCD)
- US Forest Service (USFS)


What is the concern?

Protect Critical Watersheds

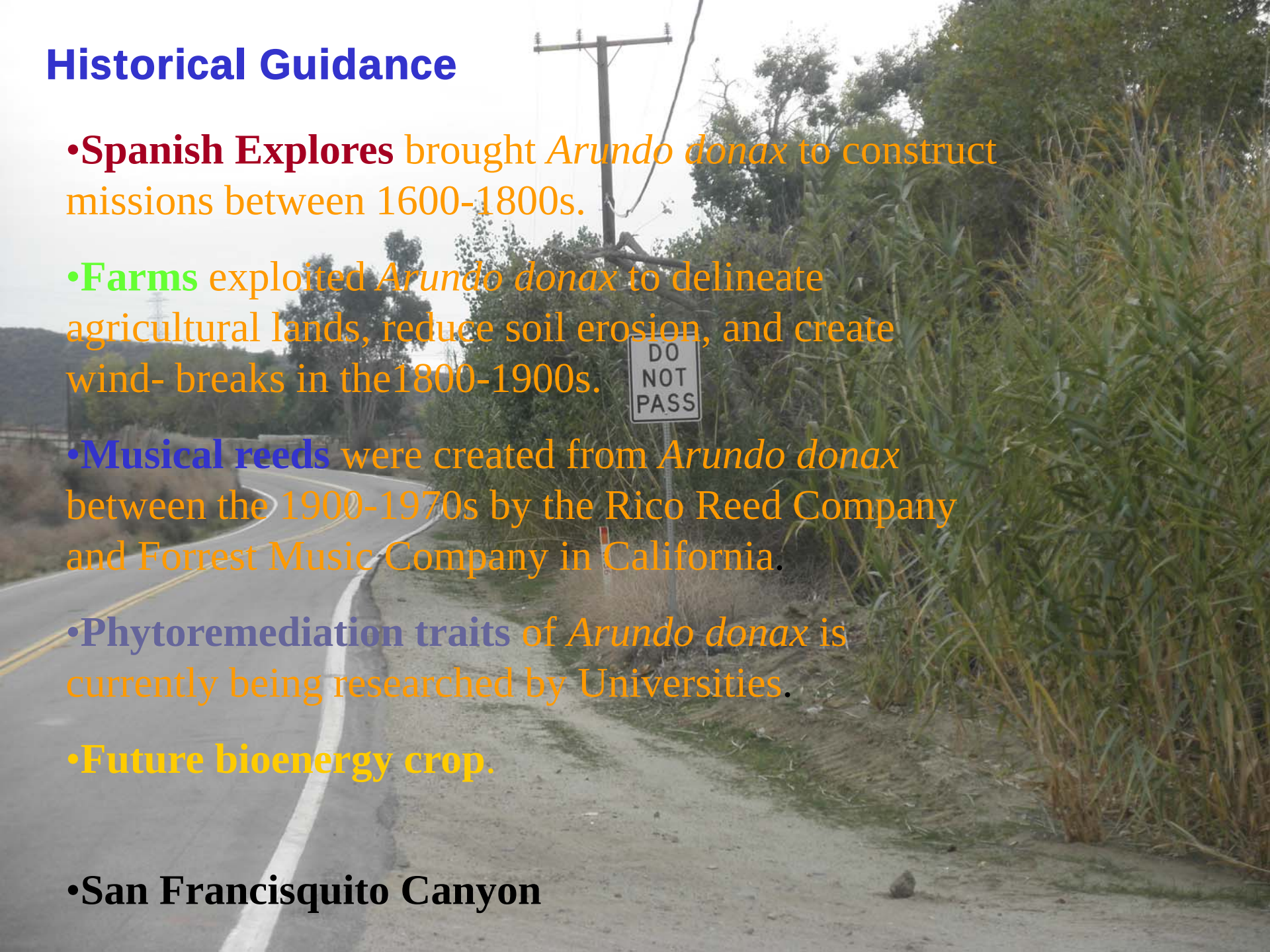


Why is it a concern ?

“ Bureau of Land Management estimates that the United States is losing 6,000 acres of public land every day to invasive non-native plants, rendering land economically useless and biologically impoverished ”

-The Role of Herbicides in Preserving Biodiversity
Sigg, J. October 1998, Fremontia 26:4

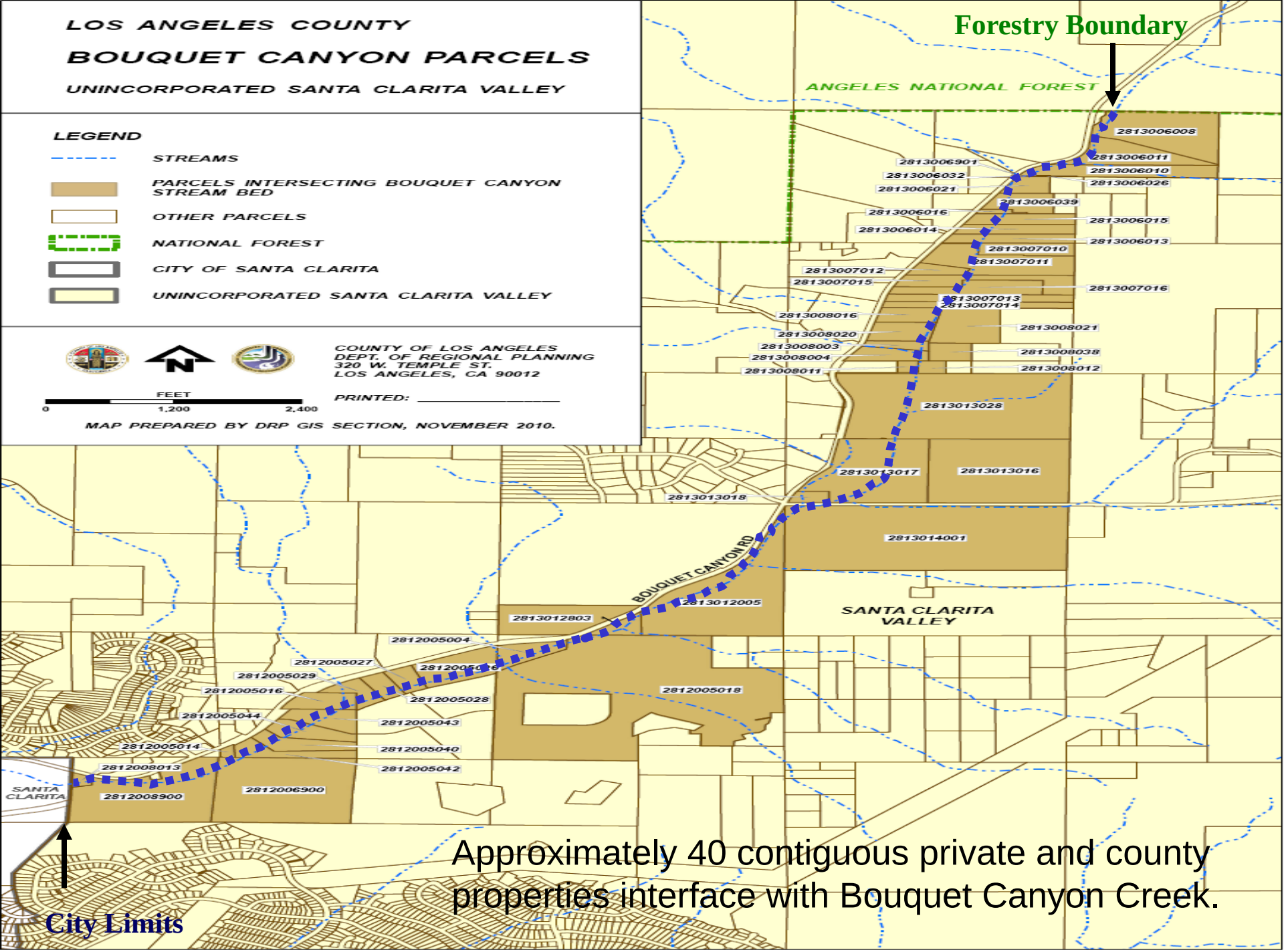
Historical Guidance



- **Spanish Explores** brought *Arundo donax* to construct missions between 1600-1800s.
- **Farms** exploited *Arundo donax* to delineate agricultural lands, reduce soil erosion, and create wind- breaks in the1800-1900s.
- **Musical reeds** were created from *Arundo donax* between the 1900-1970s by the Rico Reed Company and Forrest Music Company in California.
- **Phytoremediation traits** of *Arundo donax* is currently being researched by Universities.
- **Future bioenergy crop**.

- **San Francisquito Canyon**

Where is it a concern?


LOS ANGELES COUNTY
BOUQUET CANYON PARCELS
UNINCORPORATED SANTA CLARITA VALLEY
LEGEND
STREAMS
PARCELS INTERSECTING BOUQUET CANYON STREAM BED
OTHER PARCELS
NATIONAL FOREST
CITY OF SANTA CLARITA
UNINCORPORATED SANTA CLARITA VALLEY
COUNTY OF LOS ANGELES
DEPT. OF REGIONAL PLANNING
320 W. TEMPLE ST.
LOS ANGELES, CA 90012
FEET
0
1,200
2,400
PRINTED:
MAP PREPARED BY DRP GIS SECTION, NOVEMBER 2010.
Forestry Boundary
ANGELES NATIONAL FOREST
2813006008
2813006011
2813006901
2813006010
2813006032
2813006026
2813006021
2813006039
2813006016
2813006015
2813006014
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2813008003
2813008038
2813008004
2813008012
2813008011
2813013028
2813013017
2813013016
2813013018
2813014001
BOUQUET CANYON RD
2813012005
2813012803
SANTA CLARITA VALLEY
2812005004
2812005027
2812005029
2812005016
2812005018
2812005028
2812005044
2812005043
2812005014
2812005040
2812008013
2812005042
SANTA CLARITA
2812008900
2812006900
City Limits
Approximately 40 contiguous private and county properties interface with Bouquet Canyon Creek.
\\Gisps1\projects_gisps1\DRP_LAND_USE_REGULATION\zoning_enforcement\map_documents\adhoc_requests\bouquet_cyn_parcels.mxd

How much concern is there?

I. Do we anticipate the control of invasive weeds prior to their establishment ?

II. Do we desire to conserve the biological resources of our local ecology; specifically native flora, fuana, and especially water ?

III. Do we want restore our local tributories in order to preserve and secure our watershed for the future ?

Five Majors Steps

First Task

Secure proper permits and funding for the project.

Biological Assessment / RCD

Initial Funds of WRP

Project Task	WRP	BCN	NRCS	CEI	CCC	SUBTOTAL TASK
I. Map & Biological Monitoring	**$2,700.00**	$1,000.00	$1,500.00	$2,400.00		$10,700.00
II. Remove & Dispose	**$8,300.00**	$1,600.00			$4,500.00	$14,400.00
III. Prevent Reemergence	**$800.00**	$300.00				$1,100.00
IV.Restore, Revegetate, & Educate	**$5,600.00**		$1,500.00			$4,000.00
AVRCD Administration	**$1,840.00**					$1,840.00
Fuel (Diesel, Gas, Propane)	**$1000.00**					$1000.00
TOTAL	**$20,240.00**	**$2,900.00**	**$3,000.00**	**$2,400.00**	**$4,500.00**	**TOTAL: $33, 040.00**

Budget Notes

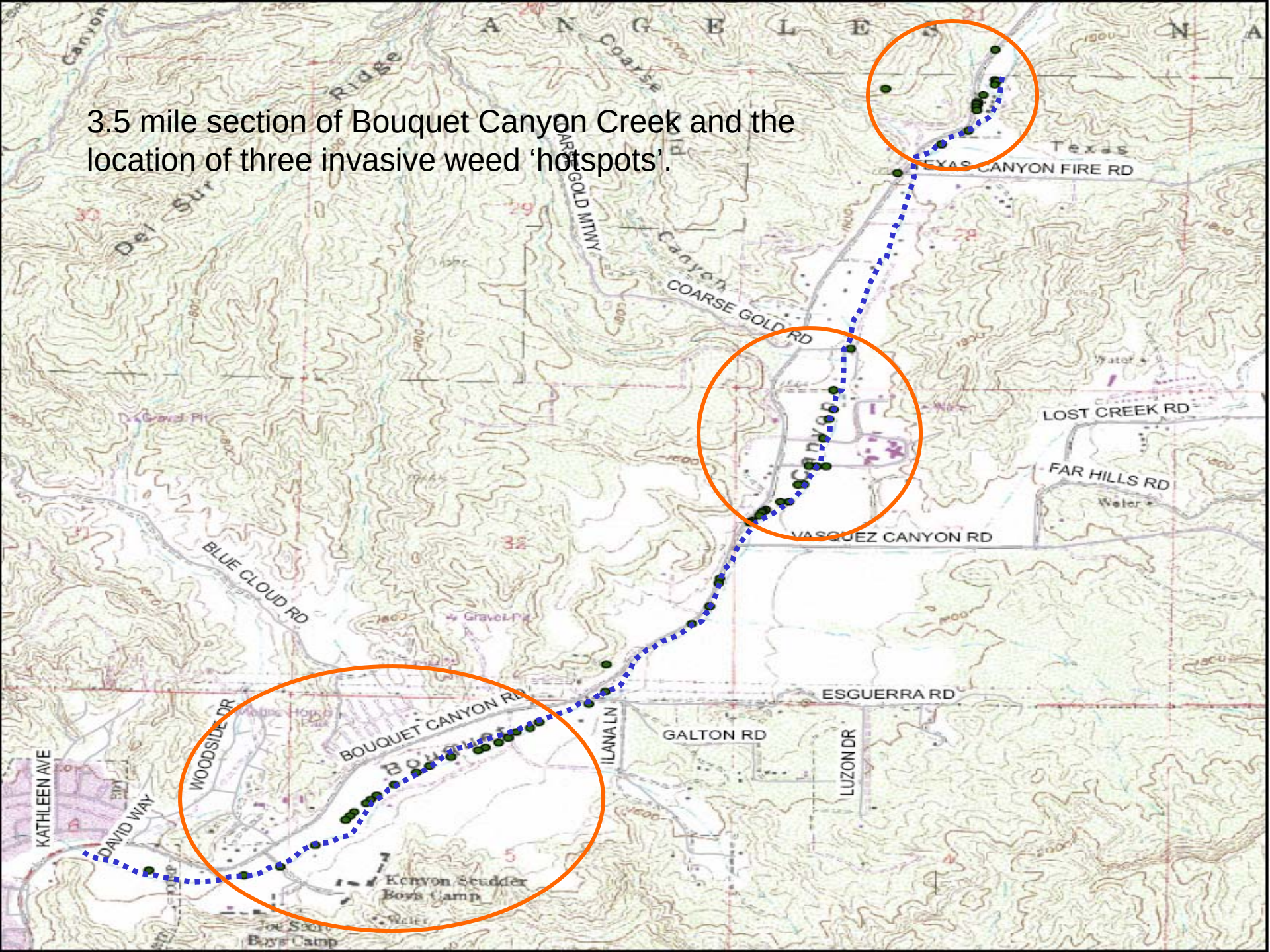
BCN = Bouquet Canyon Network (Private Property owners of 3.5 mile stretch of Bouquet Canyon)
NRCS = Natural Resources Conservation Service and Earth Team Volunteer
CEI = Cooper Ecological Monitoring, Inc.
CCC = California Conservation Corps
AVRCD = Antelope Valley Resource Conservation District (Grant Administration 10%)

Note: Contributions by BCN, NRCS, CEI, and CCC are “in-kind” or donated hours of labor, equipment, or expertise provided to the project.

Second Task

Create a site-specific map of *Arundo donax* sites.

NRCS


3.5 mile section of Bouquet Canyon Creek and the location of three invasive weed ‘hotspots’.
ANGELES
Texas
CANYON FIRE RD
COARSE GOLD MTWY
COARSE GOLD RD
LOST CREEK RD
FAR HILLS RD
VASQUEZ CANYON RD
BLUE CLOUD RD
ESGUERRA RD
BOUQUET CANYON RD
GALTON RD
ILANA LN
LUZON DR
WOODSIDE DR
DAVID WAY
KATHLEEN AVE
Kenyon Scudder Boys Camp

Third Task

To remove and dispose of *Arundo donax* sites.

Volunteers

(LA County Fire, Bible Tabernacle, CCC)

Fourth Task

To prevent the reemergence of *Arundo donax* sites.

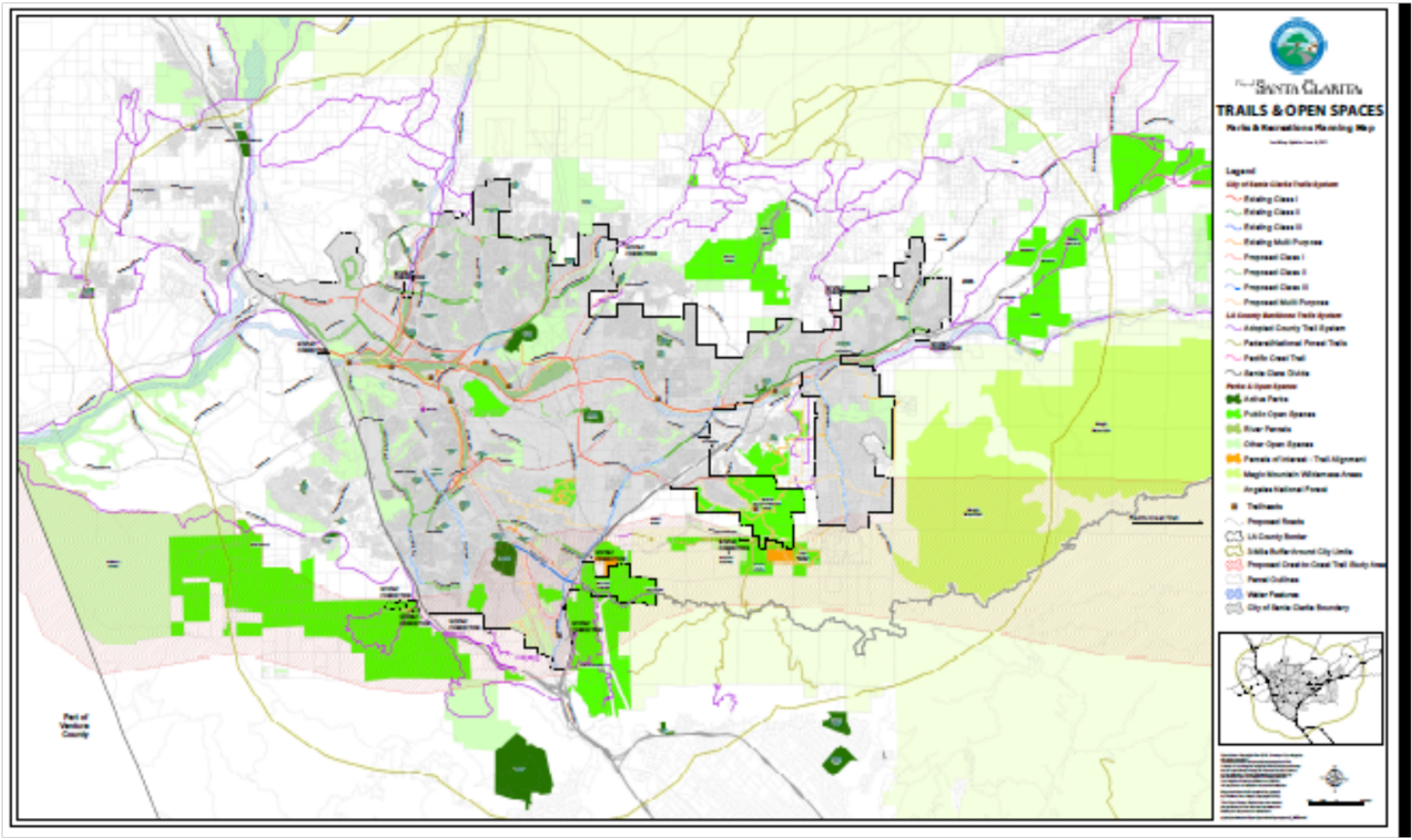
Integrated Pest Management

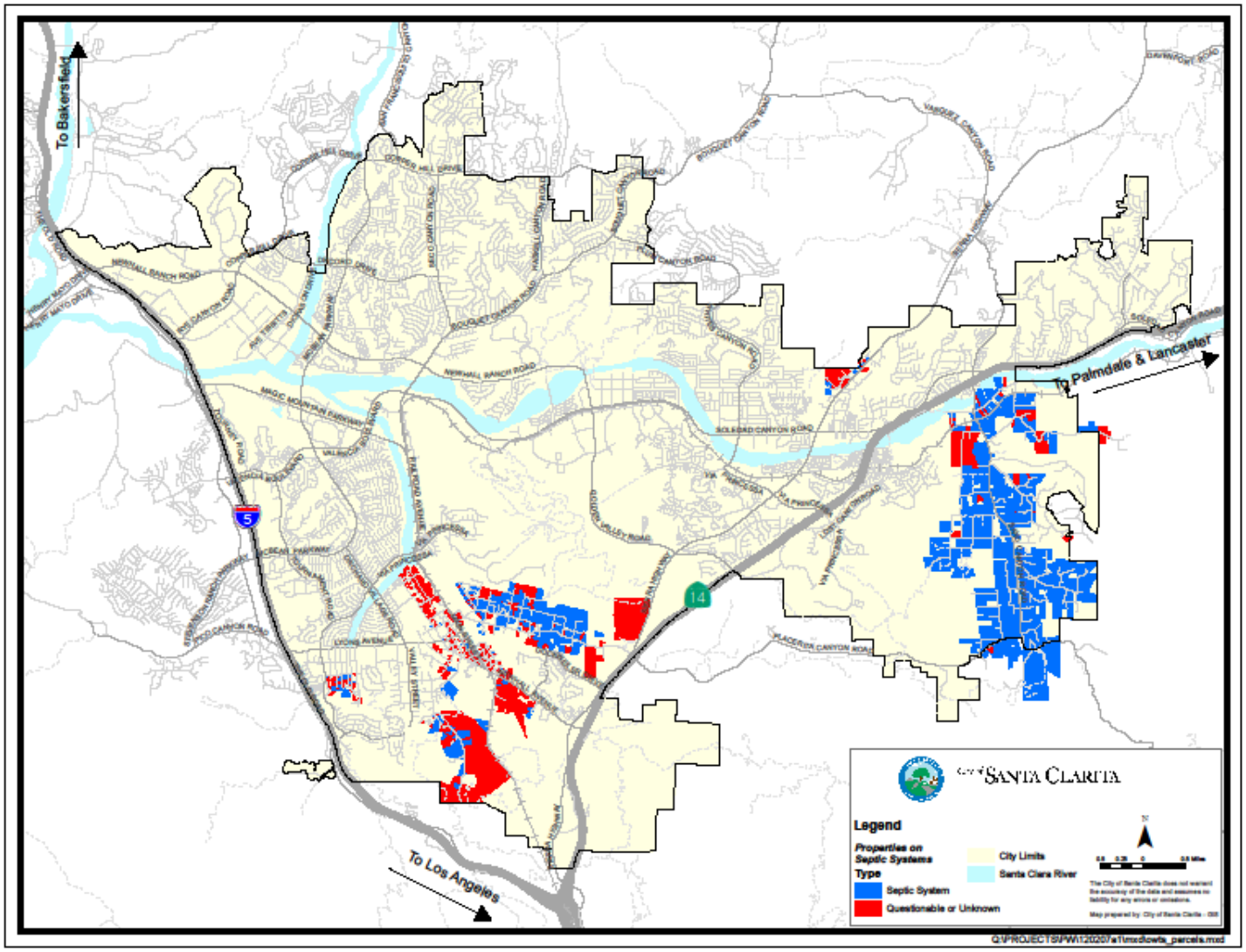
Fifth Task

To restore native vegetation within Bouquet Canyon

Private Property Owners

LA County Fire Department


TRAILS & OPEN SPACES
Parks & Recreations Planning Map
Legend
Existing Class I
Existing Class II
Existing Class III
Existing Multi Purpose
Proposed Class I
Proposed Class II
Proposed Class III
Proposed Multi Purpose
Adopted County Trail System
Federal/National Forest Trails
Pacific Crest Trail
Santa Clara Divide
Active Parks
Public Open Spaces
River Parcels
Other Open Spaces
Parcels of Interest - Trail Alignment
Magic Mountain Wilderness Areas
Angeles National Forest
Trailheads
Proposed Roads
LA County Border
Sphere of Influence
Parcel Outlines
Water Features
City of Santa Clarita Boundary
Part of Ventura County

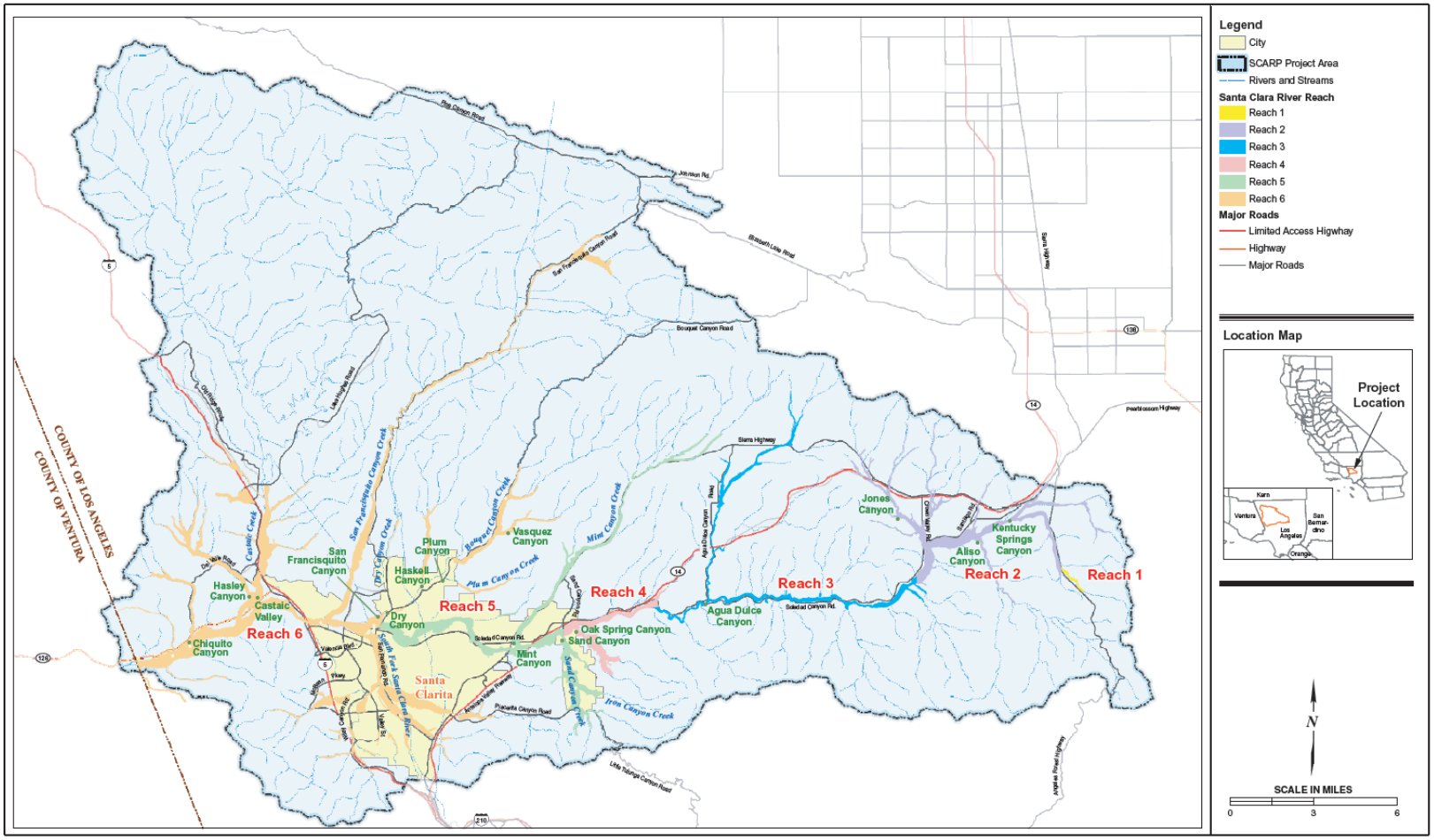

To Bakersfield
To Palmdale & Lancaster
To Los Angeles
SOLEDAD CANYON ROAD
NEWHALL RANCH ROAD
MAGIC MOUNTAIN PARKWAY
VALENCIA BOULEVARD
CREEK PARKWAY
LYONS AVENUE
VALLEY STREET
PLACERITA CANYON ROAD
SAN FRANCISQUITO CANYON ROAD
BOUQUET CANYON ROAD
HASKELL CANYON ROAD
RAILROAD AVENUE
SAUGUS
5
14
CITY OF SANTA CLARITA
Legend
Properties on Septic Systems
Type
Septic System
Questionable or Unknown
City Limits
Santa Clara River
N
0.0 0.25 0 0.5 Miles
The City of Santa Clarita does not warrant the accuracy of the data and assumes no liability for any errors or omissions.
Map prepared by: City of Santa Clarita - GIS
Q:\PROJECTS\PW\12020\a1\mxd\owts_parcels.mxd

Upper Santa Clara River Watershed
Arundo and Tamarisk Removal Program

Long-Term Implementation Plan

Ventura County Resource Conservation District

June 2006



SCARP

Upper Santa Clara River Sub-Watershed – Santa Clara River Reaches

Project	Request	Match	Total
Low Impact Development	$4,000,000 to $6,000,000	50%	$8,000,000 to $12,000,000
Voluntary Septic Tank Retirement	$1,000,000	25%	$1,250,000
Santa Clara River Arundo Removal Project	$2,000,000	25%	$2,500,000
Total	$7,000,000 to $9,000,000	40%	$11,750,000 to 15,750,000

Santa Clarita Valley Water Use Efficiency Strategic Plan

SCV
Family of
Water
Suppliers

Background

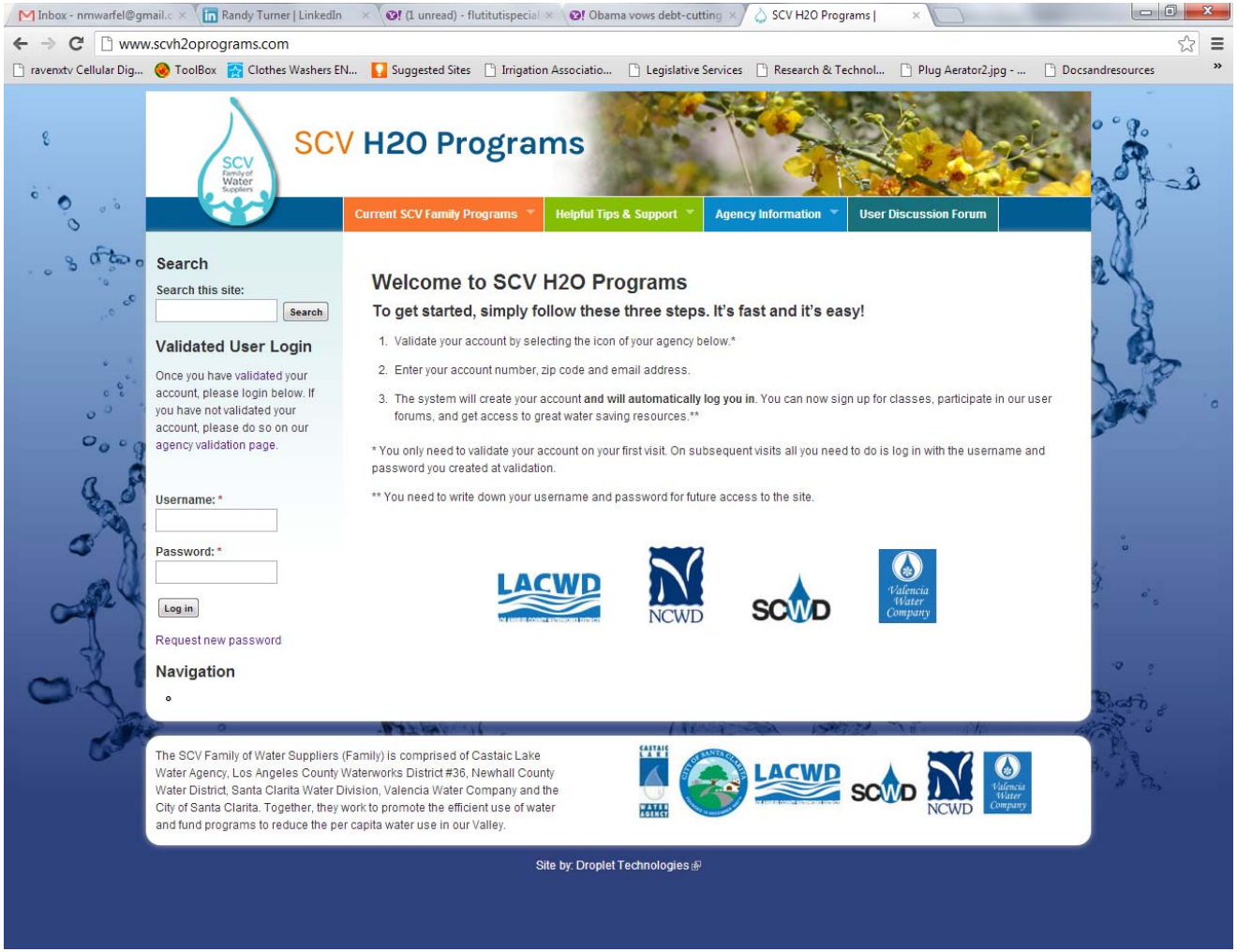
- Santa Clarita Valley Water Use Efficiency Strategic Plan (SCV WUE) adopted in 2008

- SCV WUE Strategic Plan included ($1,000,000 budget)
  - High-Efficiency Toilet Rebates (single and multi-family)
  - Large Landscape Audits with incentives
  - CII Audits with incentives
  - Residential Landscape Contractor Certification (with wbic)
  - High-Efficiency Washing Machine Rebates
  - New Construction Building Codes
  - Social Marketing Program

Project Description

- Programs in SCV WUE Strategic Plan update
- Ready to implement
- 2.5 million dollars over 2 years

Program Development



IRWMP Objectives Addressed

- Reduce Potable Water Demand
- Improve Water Quality
- Promote Resource Stewardship
- Promote Projects and Actions That Reduce Greenhouse Gas (GHG) Emissions

Project Ranking

- Eligibility – Yes
- Readiness to proceed – 175 of 200 possible points
- Multiple Objectives – 60 of 100 points
- Multiple Resource Mgmt Strategies – 9 total; 45 points
- DACs, Native Americans and Environmental Justice Concerns – N/A
- Consistent with Land Use Plans – Yes, 100 points
- Improves Interregional Coordination - No

Castaic Lake Water Agency

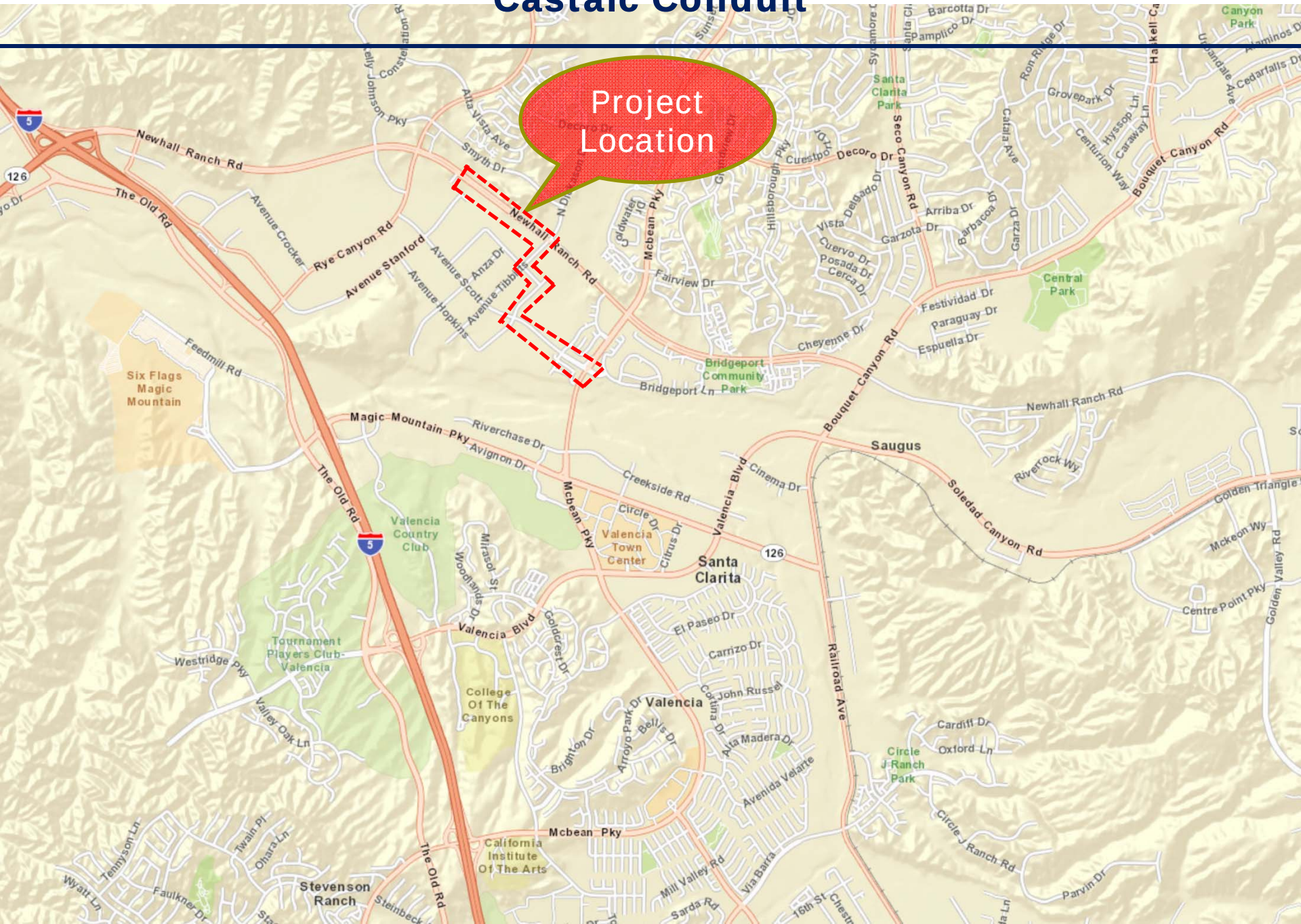
Castaic Conduit

IRWMP Proposition 84 Round 2 Implementation Funding

IRWMP Stakeholder Meeting

October 25, 2012

Castaic Conduit



Project Need & Description

- **Need**
  - Removes an existing pipeline constriction.
  - Improves operational flexibility, system reliability, and system pressure.

- **Description**
  - Installation of 7,960 feet of 54-inch diameter pipeline and appurtenances

Castaic Conduit

Project Readiness

- Project is ready to implement
  - Preliminary design complete
  - CEQA complete
  - Permits in process
  - Construction drawings in process
  - Design funded in FY 2012/13 capital budget
  - Anticipate Construction: FY 2013/14
  - Estimated Total Project Cost
    - Capital: $14,910,000 to $16,000,000
    - O&M: $5,000 per year

IRWMP Objectives and Water Management Strategies

- **IRWMP Objective**
  - Increase Water Supply reliability by improving the system's operational efficiency
- **Water Management Strategies**
  - Improve Operational Efficiency and Transfers
    - ✓ Conveyance

Castaic Conduit

Project Ranking

- Eligibility – Yes
- Readiness to proceed – 150 of 200 possible points
- Multiple Objectives – 15 of 100 points
- Multiple Resource Mgmt Strategies – 1 total; 5 points
- DACs, Native Americans and Environmental Justice Concerns – NA
- Consistent with Land Use Plans – Yes, 100 points
- Improves Interregional Coordination - No

Foothill Feeder Connection Project

IRWMP Proposition 84 Round 2
Implementation Funding

Foothill Feeder Connection Project

- Since RVWTP start-up in 1996, CLWA has received SWP water through a "temporary" connection, which now has 60 MGD capacity
- Raw SWP water from Castaic Lake is wheeled to RVIPS and RVWTP via MWDSC's Foothill Feeder pipeline
- Permanent connection design completed 10/2012
- Can be implemented immediately

Project Need

- Capacity is needed
  - Current RVWTP permitted capacity is 66 MGD
  - Ultimate RVWTP capacity could be up to 90 MGD
  - Permanent connection will allow for 90 MGD
  - Allow RVWTP to operate at full current rated capacity of 66 MG
- "Permanent" connection is required
- Project will provide additional tie-in from Foothill Feeder to CLWA raw water line to serve as a back-up when primary feeder is out for maintenance

Project Description

- Construct and install new vaults, pipelines, valves, electrical equipment and control systems to increase capacity of line that feeds RVIP Station from 60 MGD to 90 MGD.

IRWMP Objectives Addressed

- Increase Water Supply

Project Readiness

- Design is complete
- Project is ready to implement

Project Ranking

- Eligibility – Yes
- Readiness to proceed – 175 of 200 possible points
- Multiple Objectives – 15 of 100 points
- Multiple Resource Mgmt Strategies – 1 total; 5 points
- DACs, Native Americans and Environmental Justice Concerns – NA
- Consistent with Land Use Plans – Yes, 100 points
- Improves Interregional Coordination – No

Castaic Lake Water Agency

Distribution System – Rio Vista Valve No. 2 (RV-2) Modifications

IRWMP Proposition 84 Round 2 Implementation Funding

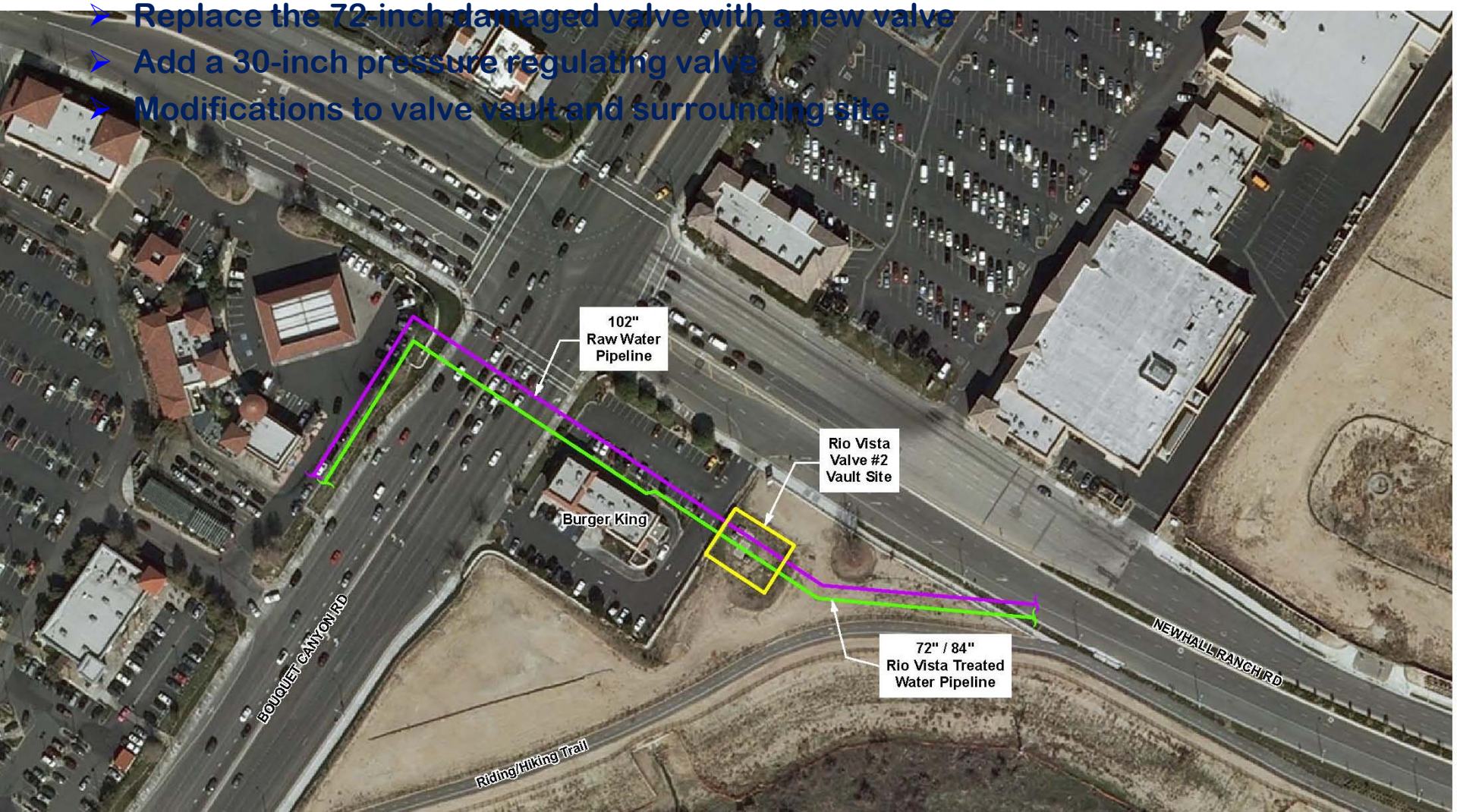
IRWMP Stakeholder Meeting

October 25, 2012

Distribution System – RV-2 Modifications

Project Need & Description

- **Need**
  - Improves operational flexibility and system reliability
- **Description**
  - Replace the 72-inch damaged valve with a new valve
  - Add a 30-inch pressure regulating valve
  - Modifications to valve vault and surrounding site



Distribution System – RV-2 Modifications

Project Readiness

- Project is ready to implement
  - Preliminary design complete
  - CEQA complete
  - Permits in process
  - Construction drawings in process
  - Design funded in FY 2012/13 capital budget
  - Anticipate Construction: FY 2013/14
  - Estimated Total Project Cost
    - Capital: $2,880,000 to $3,200,000
    - O&M: $5,000 per year

IRWMP Objectives and Water Management Strategies

- **IRWMP Objective**
  - Increase Water Supply reliability by improving the system's operational efficiency
- **Water Management Strategies**
  - Improve Operational Efficiency and Transfers
    - ✓ Conveyance
    - ✓ System Reoperation

Distribution System – RV-2 Modifications

Project Ranking

- Eligibility – Yes
- Readiness to proceed – 150 of 200 possible points
- Multiple Objectives – 15 of 100 points
- Multiple Resource Mgmt Strategies – 2 total; 10 points
- DACs, Native Americans and Environmental Justice Concerns – NA
- Consistent with Land Use Plans – Yes, 100 points
- Improves Interregional Coordination - No

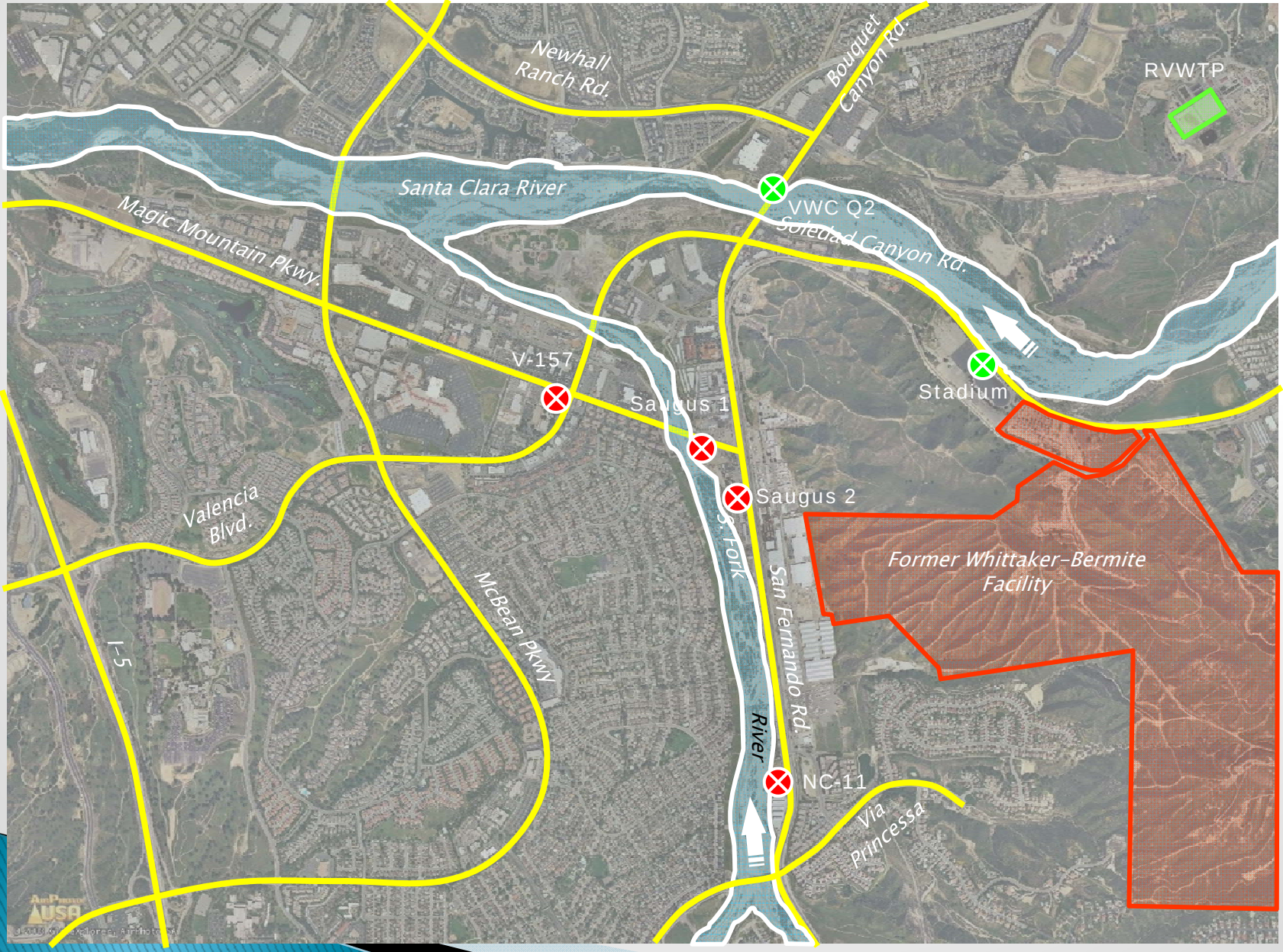
West Saugus Groundwater Resources Monitoring Project

IRWMP Proposition 84 Round 2
Implementation Funding

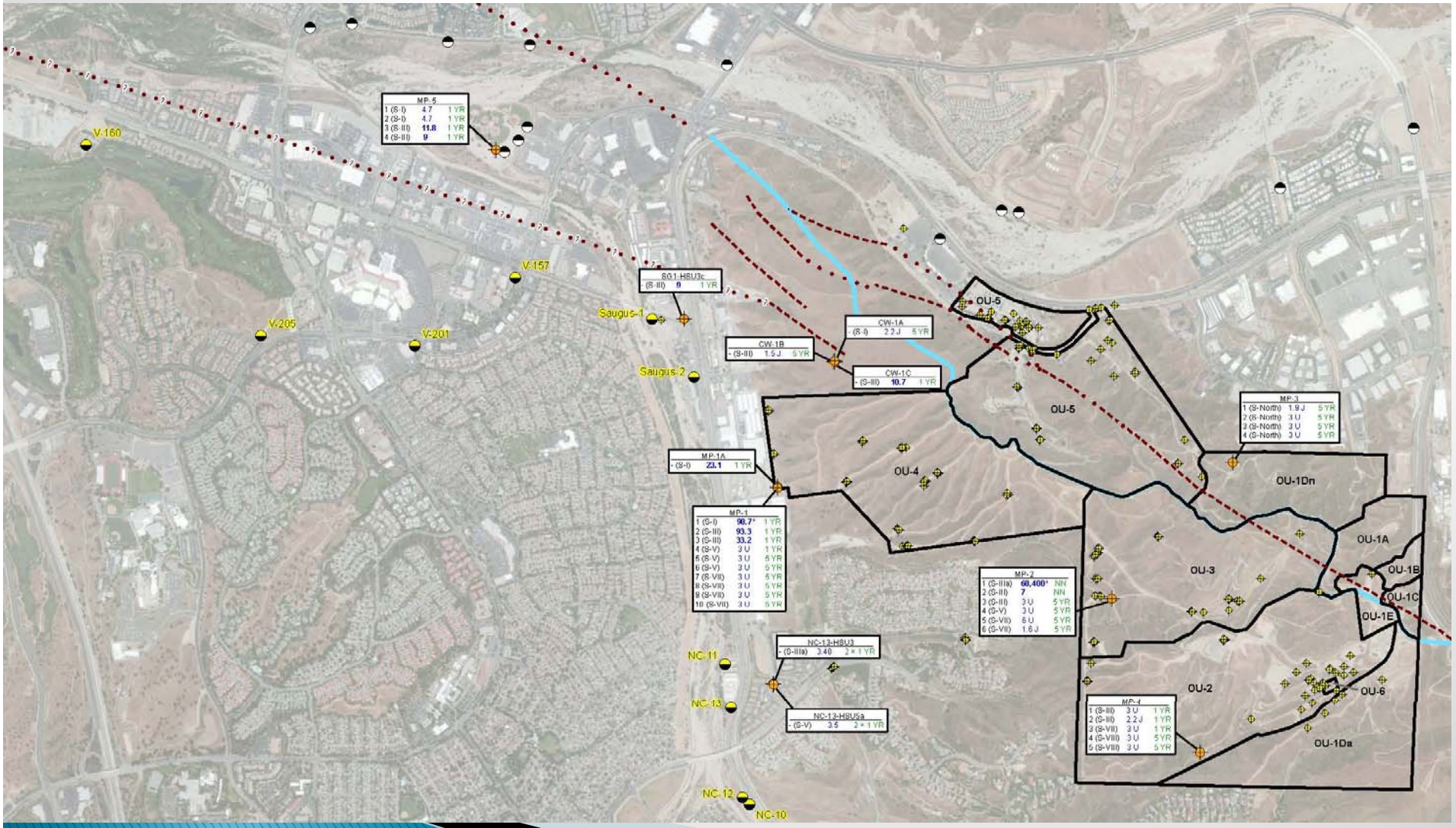
West Saugus Groundwater Resources Monitoring Project

- Several Saugus Formation (groundwater bearing unit) in the SCV are vulnerable to groundwater contamination beyond those already affected
- Strategically placed monitoring wells can provide chemical and water level data for GW flow and transport models
- Horizontal and vertical extent of groundwater contamination is not fully understood
- GW Models predict groundwater flow and the transport of contaminants

Wells with Perchlorate Detected



SCV Production and Monitoring Wells



Project Need

- More data are required to:
  - Measure horizontal and vertical extent of contamination
  - Serve as a warning to currently functioning wells
  - Provide appropriate basin management

Project Description

- Construct and install monitoring wells in west portion Saugus Formation

IRWMP Objectives Addressed

- Improve Water Quality
- Promote Water Stewardship

Project Readiness

- Conceptual plans
- Need/Feasibility identified and verified
- Preliminary design/cost estimates
- CEQA readily obtained as no detrimental impacts foreseen.

Project Ranking

- Eligibility – Yes
- Readiness to proceed – 75 of 200 possible points
- Multiple Objectives – 30 of 100 points
- Multiple Resource Mgmt Strategies – 3 total; 15 points
- DACs, Native Americans and Environmental Justice Concerns – NA
- Consistent with Land Use Plans – Yes, 100 points
- Improves Interregional Coordination – No

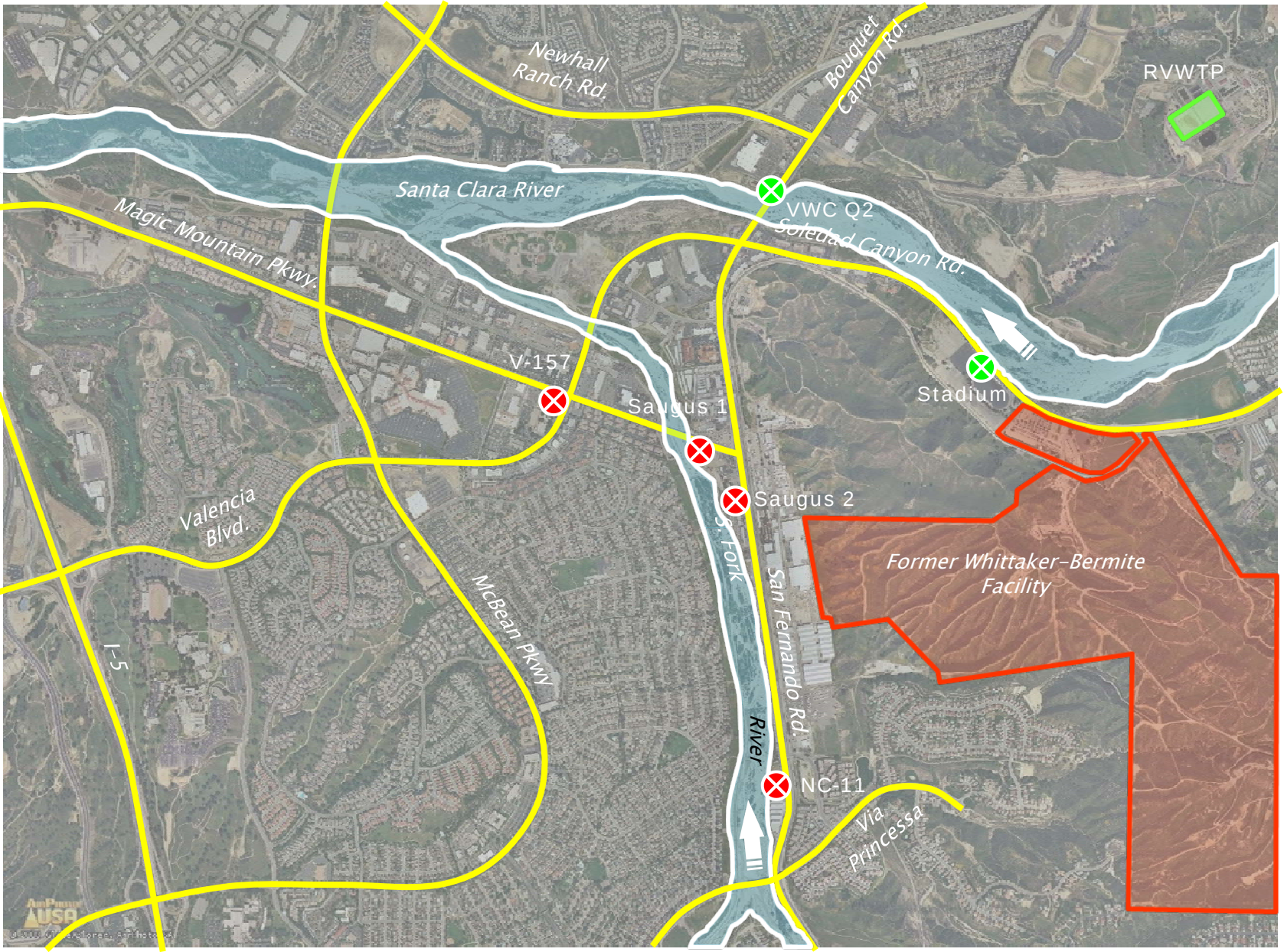
Santa Clarita Valley Volatile Organic Compound Groundwater Investigation

IRWMP Proposition 84 Round 2
Implementation Funding

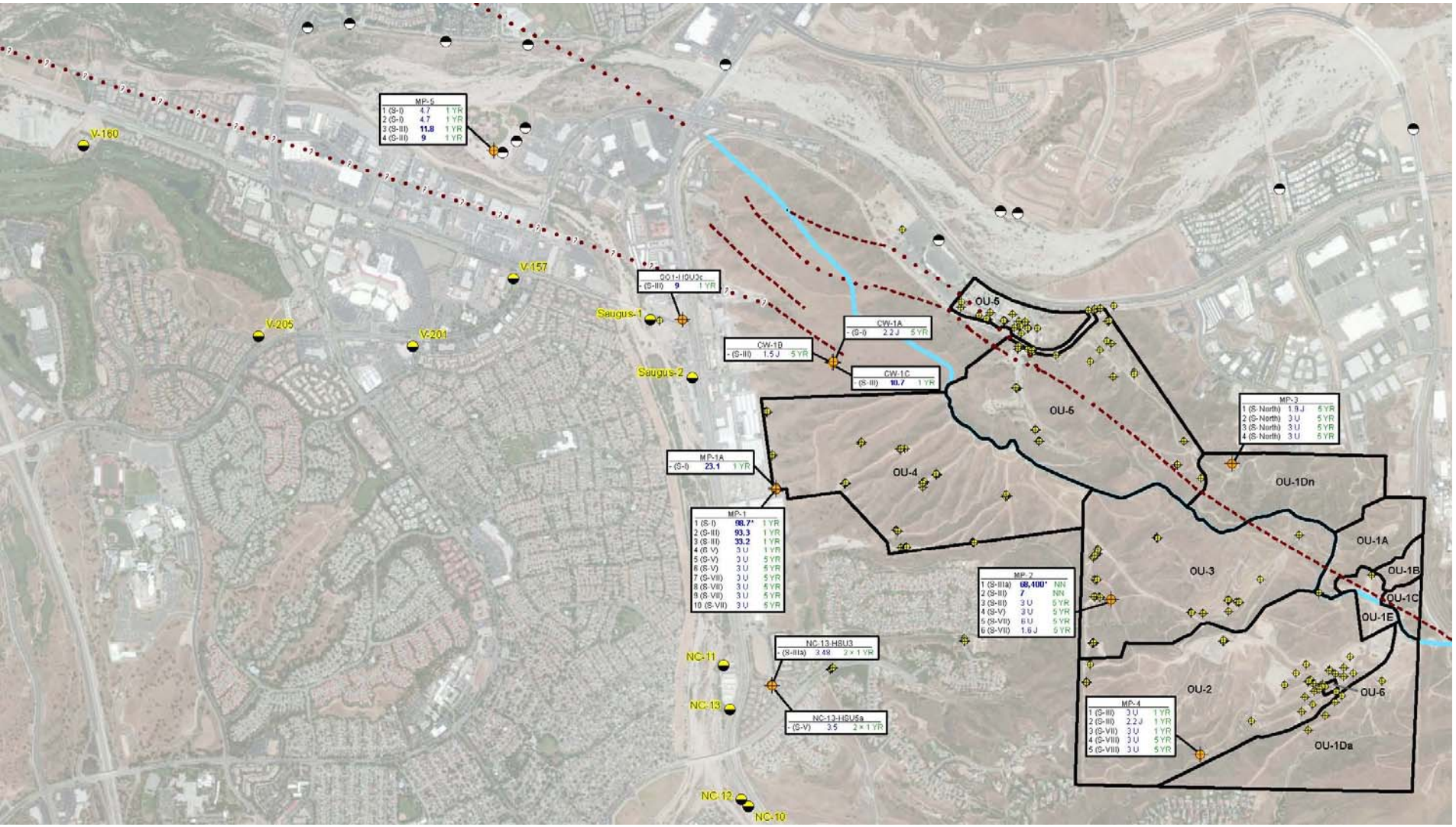
SCV Volatile Organic Compound Groundwater Investigation

- VOCs have been detected in some SVC municipal wells
- Two possible sources have been identified
- Others are possible
- Possible sources have been somewhat cooperative
- Comprehensive investigation is necessary
- Remediation could be required

Wells with Perchlorate Detected



SCV Production and Monitoring Wells



Project Need

- SCV production wells need to be protected
- Thorough investigation required to properly determine sources and potential extent of VOC contamination
- If the results indicate an imminent threat to SCV wells then remediation action must commence
- Project Management by CLWA best ensures that investigation is thorough enough to identify

Project Description

- Coordinate with current efforts (SIC and Whittaker-Bermite)
- Evaluate current data set, including those from production and monitoring wells
- Identify data gaps; determine need for additional monitoring wells
- If appropriate, locate, design and construct new monitoring wells.
- Develop groundwater model to forecast transport of VOCs
- Identify sources

IRWMP Objectives Addressed

- Improve Water Quality
- Promote Water Stewardship

Project Readiness

- Conceptual plans
- Need/Feasibility identified and verified
- CEQA readily obtained as no detrimental impacts foreseen.

Project Ranking

- Eligibility – Yes
- Readiness to proceed – 75 of 200 possible points
- Multiple Objectives – 30 of 100 points
- Multiple Resource Mgmt Strategies – 3 total; 15 points
- DACs, Native Americans and Environmental Justice Concerns – NA
- Consistent with Land Use Plans – Yes, 100 points
- Improves Interregional Coordination – No

Stakeholder Meeting, December 18, 2012

- Agenda
- Handout: Candidate Projects for IRWM Plan Update
- Handout: Ranking Criteria
- Handout: Matrix of Prioritized Projects and Applied Criteria
- Recommend Suite of Projects, Proposition 84 Round 2 Grant Application

UPPER SANTA CLARA RIVER
Integrated Regional Water Management

Stakeholder Meeting
Tuesday, December 18, 2012, 2:00 pm – 4:00 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

Meeting Objectives:

- Consultant Progress & Funding Updates
- Present Project Prioritization & Round 2 Implementation Grant Proposal

AGENDA

2:00	**I.**	**Welcome** *Lauren Everett, Castaic Lake Water Agency (CLWA)*
2:05	**II.**	**Consultant Progress Updates** A. IRWMP Update and Climate Change Technical Study B. Salt and Nutrient Management Plan *Meredith Clement, Kennedy/Jenks (KJ), Lauren Everett, CLWA*
2:15	**III.**	**General Updates** A. Planning Grant R1 & R2 B. Implementation Grant R1 & R2 *Lauren Everett, CLWA*
2:25	**IV.**	**Present Project Prioritization / Ranking** *Meredith Clement, KJ*
2:55	**V.**	**Present R2 Implementation Grant Projects** *Lauren Everett, CLWA*
3:35	**VI.**	**Implementation Grant Application – Cost Share Allocation** *Lauren Everett, CLWA*
4:00	**VIII.**	**Close**

Projects submitted with a Long Form

Long Forms are used for projects that are deemed ready for implementation and for which detailed project information is available. These projects were scored and ranked based on established criteria.

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives							Rank
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*	
SC-1	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	City of Santa Clarita	Santa Clara River Conservancy; Angeles National Forest; Santa Clara Invasive Weeds Task Force	$0.5M-$20M (Capital); $25 - $100k/yr over 15 years (O&M)	◆	◆	◆	◆	◆	◆	◆	1
SCVSD-1	SCVSD Automatic Water Softener Rebate and Public Outreach Program	Santa Clarita Valley Sanitation District	City of Santa Clarita; County of Los Angeles	$1.1M/yr over 3 years (O&M)			◆				◆	2
NCWD-2	Pellet Water Softening Treatment Plant - Phase 1	Newhall County Water District	NA	$250,000 - $500,000 (Capital)	◆		◆	◆			◆	3
AA/BCN-1	Bouquet Canyon Creek Restoration, Control of Invasive Weeds	Agricultural Access/Bouquet Canyon Network (Currently no eligible applicant as Sponsor Agency)	Antelope Valley Resource Conservation District; Natural Resource Conservation District; Cooper Ecological Monitoring/Leathermann BioConsulting, Inc.; LA County Fire; Angeles National Forest	$20,240 - $52,852 (Capital); $13,052/yr over 5 years (O&M)		◆	◆	◆	◆	◆	◆	4
SCWD-2	July 2012 Santa Clarita Water Division Water Use Efficiency Strategic Plan Water Use	Santa Clarita Water Division	Castaic Lake Water Agency; City of Santa Clarita	$301,930-$2,520,469 (Capital); $62,370-	◆	◆	◆	◆			◆	5
SCVSD-2	Saugus Water Reclamation Plan - Ultraviolet Light Disinfection Facility	Santa Clarita Valley Sanitation District	Castaic Lake Water Agency	$8M-$14M (Capital); $2K/yr for 20 years (O&M)	◆	◆	◆	◆				6
CLWA-3	Santa Clarita Valley Water Use Efficiency Strategic Plan	Castaic Lake Water Agency	LACWD#36; Newhall County Water District; Santa Clarita Water Division; Valencia Water Company	$1M-$5M/yr over 8 years (Capital)	◆	◆	◆					7
LADPW-9	SCR South Fork Rubber Dam No. 1 and Spreading Grounds	Los Angeles County Flood Control District	NA	$5M-$9M (Capital); $50K/yr over 50 years (O&M)		◆	◆	◆	◆			8
CLWA-8	Foothill Feeder Connection	Castaic Lake Water Agency	Newhall County Water District; City of Santa Clarita; LACWD#36	$3M-$5M (Capital); $50K/yr over 50 years (O&M)		◆						9
SC-5	Biofiltration and Low Impact Development Retrofits	City of Santa Clarita	Los Angeles County; Castaic Lake Water Agency	$4M-$6M (Capital); $200,000/yr over 15 years (O&M)	◆	◆	◆	◆	◆	◆		10

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives							Rank
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*	
SC-6	Septic to Sewer Retrofit Project	City of Santa Clarita	NA	$25M-$35M (Capital); unknown O&M		◆	◆	◆				11
CLWA-7	Castaic Conduit	Castaic Lake Water Agency	NA	$14,910,000-$16M (Capital); $5,000/yr (O&M)		◆						12
CLWA-10	Distribution System - RV-2 Modification	Castaic Lake Water Agency	NA	$2,880,000-$3,200,000 (Capital); $5,000/yr (O&M)		◆						13
CLWA-9	West Saugus Formation Groundwater Resources Monitoring Project	Castaic Lake Water Agency	NA	$628,675			◆	◆				14
NCWD-1	Santa Clara River – Sewer Trunk Line Relocation Phase II and III	Newhall County Water District	NA	$2,500,000 - $4,000,000 (Capital); $30K/yr over 50 years (O&M)		◆	◆	◆				15
NCWD-3	Santa Clarita Valley Residential Turf Removal Program	Newhall County Water District	Castaic Lake Water Agency; Santa Clarita Water Division; Valencia Water Company; LA County Waterworks #36	625000 (Capital); $312,500/yr over 2 years (O&M)	◆				◆			16
CLWA-11	Santa Clarita Valley Volatile Organic Carbon Groundwater Investigation	Castaic Lake Water Agency	Newhall County Water District; City of Santa Clarita; LACWD#36	$250,000-$5M (Capital)			◆	◆				17

Projects submitted with a Short Form

Short Forms are used for projects that are primarily in a conceptual phase and not deemed ready for implementation. These projects were not scored or ranked.

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
AA/BCN-2	Feasibility of Arundo Stem Cutting Ram (ASCR)	Agricultural Access/Bouquet Canyon	NA	<$100K		◆		◆	◆		◆
CLWA-1	Irrigation Efficiency Program	Castaic Lake Water Agency	NA	$100K-$1M	◆					◆	
CLWA-2	Water Use Efficiency Certification	Castaic Lake Water Agency	NA	$100K-$1M	◆					◆	
CLWA-4	ESFP Sludge Collection System	Castaic Lake Water Agency	NA	$1M-$1M		◆	◆				
CLWA-5	Saugus Formation Replacement Wells	Castaic Lake Water Agency	NA	$1M-$10M		◆		◆			
CLWA-6	Santa Clarita Valley Drought Relief Wells	Castaic Lake Water Agency	NA	$1M-$1M		◆					
CLWA-12	Update Rio Vista WTP Education Model	Castaic Lake Water Agency	NA	<$100,000	◆			◆		◆	
LACWD36-1	Advanced Meter Infrastructure	LACWD#36	NA	<$100,000	◆						
LACWD36-2	Cash for Grass Rebate Program	LACWD#36	NA	<$100,000	◆						
LACWD36-3	Landscape Irrigation Efficiency Program	LACWD#36	NA	<$100,000	◆						
LACWD36-4	Apam and Bayfield Water Main	LACWD#36	NA	$100K-$1M		◆					

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
LACWD36-5	Hasley Canyon Road Water Main, Turnout Connection, and Pump Station Project	LACWD#36	NA	$1M-$10M		◆					
LACWD36-6	Replacement of 8-inch Water Main along Del Valle Road	LACWD#36	NA	$100K-$1M		◆					
LADPW-1	Lower San Francisquito Spreading Grounds	Los Angeles County Flood Control District	NA	$3M-$6M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-2	Newhall Creek In-River Spreading Grounds	Los Angeles County Flood Control District	NA	$2M-$5M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-3	Placerita Creek Off-River Spreading Grounds	Los Angeles County Flood Control District	NA	$3M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
LADPW-4	Santa Clara In-River Spreading Grounds No. 1	Los Angeles County Flood Control District	NA	$4M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-5	Santa Clara In-River Spreading Grounds No. 2	Los Angeles County Flood Control District	NA	$2M-$5M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-6	Santa Clara Off-River Spreading Grounds	Los Angeles County Flood Control District	NA	$4M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-7	Santa Clara River Rubber Dam No.1	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-8	Santa Clara River Spreading Grounds	Los Angeles County Flood Control District	NA	$7M-$10M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-10	SCR South Fork Rubber Dam No. 2	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
LADPW-11	SCR South Fork Rubber Dam No. 3	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-12	SCR South Fork Rubber Dam No. 4	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-13	Upper San Francisquito Spreading Grounds	Los Angeles County Flood Control District	NA	$3M-$6M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
NCWD-4	Recycled Water Onsite Conversion	Newhall County Water District	NA	$100K-$1M	◆					◆	
NCWD-5	Advanced Metering Infrastructure Program	Newhall County Water District	NA	$1M-$10M	◆	◆		◆			◆
SC-2	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	City of Santa Clarita	Forest Service; Santa Clara River Conservancy	$1M-$10M	◆	◆	◆	◆	◆	◆	◆
SC-3	City of Santa Clarita Biofiltration and Low Impact Development Retrofits	City of Santa Clarita	NA	$1M-$10M	◆	◆	◆		◆	◆	
SC-4	Septic to Sewer Retrofit Project	City of Santa Clarita	NA	>$10M		◆	◆	◆			

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
SCEEC-1	Linking SCEEC to the Upper Santa Clara River IRWMP	Santa Clarita Environmental Education Consortium	NA	<$100K	◆		◆	◆	◆	◆	
SCWD-1	Advanced Metering Infrastructure Program	Santa Clarita Water Division	NA	$1M-$10M	◆	◆		◆			◆
SCWD-3	GIS Development and Implementation	Santa Clarita Water Division	NA	$1M-$10M		◆	◆				◆
VWC-1	Regional High Resolution GIS Mapping	Valencia Water Company	NA	$100K-$1M				◆			
VWC-2	Valleywide Conservation Database	Valencia Water Company	NA	<$100K	◆			◆		◆	
VWC-3	Advanced Metering Infrastructure Program	Valencia Water Company	NA	$1M-$10M	◆	◆		◆			◆
VWC-4	CII Consevation Plan	Valencia Water Company	NA	<$100K	◆					◆	

Upper Santa Clara River Integrated Regional Water Management Plan

Proposed Project Scoring and Ranking Methodology

Criterion	Possible Points
Project and Project Applicant Eligible	Pass/Fail Criteria If project affects groundwater: (1) There must be a GWMP prepared an implemented in compliance with CWC §10753.7 or applicant consents to be subject to a GWMP or other program that meets the requirements of CWC §10753.7. (2) Or the proposal must include development of a GWMP within 1 year of grant submittal date. (3) Or the project conforms to requirements of an adjudication of water rights in the subject groundwater. *If no to all 3 = Fail* If project proponent or project beneficiary is Urban Water Supplier: (1) They must have completed and submitted an Urban Water Management Plan (2) And be incompliance with AB1420 (3) And meet water meter requirements (CWC §525) *If no to any of the three = Fail* 5 points if Project Proponent has adopted or will adopt the Integrated Plan
Readiness to Proceed	25 points for each item below*, up to 200points : Local Cost Share Confirmed Construction Drawings completed Permits completed CEQA/NEPA completed Project benefits and costs defined at a level of detail that will allow cost-effectiveness analysis or benefit-cost analysis Preliminary Design and Cost Estimates complete Feasibility complete Conceptual Plans complete *Points were awarded if item was not applicable.
Addresses Multiple Objective	15 points for each objective addressed, up to 100 points
Integrates Multiple Resource Management Strategies	5 points for each applicable Resource Management Strategy, up to 100 points
Benefits a Disadvantaged Community/Increases Disadvantaged Community Participation	Yes = 50 points No = 0 points
Addresses Critical Water Issues for Native American Tribal Communities	Yes = 50 points No = 0 points If Native American Tribal Community Qualifies as DAC, points will be awarded per box above and this box will not apply.
Environmental Justice Concerns	50 points Project redresses inequitable distribution of environmental burdens
Consistent with Local Land Use Plans	Yes = 100 points No = 0 points
Improves Interregional Coordination	Yes = 100 points No = 0 points
Tie – Breaker Points	For any projects ranked in the top 15 with the same score the following points will be awarded: 10 pts Project with lower cost per acre-foot of water conserved 10 pts Project with the greatest reduction in electrical/energy use per acre-foot of water 10 pts Project with lower cost per new acre-foot of water supply 10 pts Project with lower cost per acreage of habitat improved 10 pts Project with lower cost for per unit of flood reduction

Upper Santa Clara River Integrated Regional Water Management Plan
Draft Ranking, Projects Submitted During 2012 Call for Projects

Project ID	Project Name	Sponsor Agency	Estimated Cost	Objectives							Project and Project Applicant Elgibility	Addresses Multiple Objectives	Integrates Multiple Resource Management Strategies	Benefits DAC/Increases DAC Participation	Addresses Critical Water Issues for Native American Tribal Communities	Environmental Justice Concerns	Consistent with Local Land Use Plans	Improves Interregional Coordination	Readiness to Proceed	Tie-Breaker Points	Total	Rank
				Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*												
SC-1	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	City of Santa Clarita	$0.5M-$20M (Capital); $25k - $100k/yr over 15 years (O&M)	◆		◆	◆	◆	◆	◆	5	90	60	0	0	0	100	100	200	0	555	1
SCVSD-1	SCVSD Automatic Water Softener Rebate and Public Outreach Program	Santa Clarita Valley Sanitation District	$1.1M/yr over 3 years (O&M)	◆		◆	◆			◆	5	45	20	0	0	0	100	100	200	0	470	2
NCWD-2	Pellet Water Softening Treatment Plant - Phase 1	Newhall County Water District	$250,000 - $500,000 (Capital)	◆		◆	◆			◆	5	60	25	0	0	0	100		200	0	390	3
AA/BCN-1	Bouquet Canyon Creek Restoration, Control of Invasive Weeds	Agricultural Access/Bouquet Canyon Network (Currently no eligible applicant as Sponsor Agency)	$20,240 - $52,852 (Capital); $13,052/yr over 5 years (O&M)	◆		◆	◆	◆	◆	◆	0	90	45	0	0	0	100	0	150	0	385	4
SCWD-2	July 2012 Santa Clarita Water Division Water Use Efficiency Strategic Plan Water Use Efficiency Programs	Santa Clarita Water Division	$301,930-$2,520,469 (Capital); $62,370-$366,223/yr over 8 years (O&M)	◆		◆	◆			◆	5	60	25	0	0	0	100	0	175	0	365	5
SCVSD-2	Saugus Water Reclamation Plan - Ultraviolet Light Disinfection Facility	Santa Clarita Valley Sanitation District	$8M-$14M (Capital); $2K/yr for 20 years (O&M)		◆	◆	◆				5	45	25	0	0	0	100	100	75	0	350	6
CLWA-3	Santa Clarita Valley Water Use Efficiency Strategic Plan	Castaic Lake Water Agency	$1M-$5M/yr over 8 years (Capital)	◆		◆	◆				5	45	25	0	0	0	100	0	150	0	325	7
LADPW-9	SCR South Fork Rubber Dam No. 1 and Spreading Grounds	Los Angeles County Flood Control District	$5M-$9M (Capital); $50K/yr over 50 years (O&M)		◆	◆	◆	◆			5	60	35	0	0	0	100	0	100	0	300	8
CLWA-8	Foothill Feeder Connection	Castaic Lake Water Agency	$3M-$5M (Capital); $50K/yr over 50 years (O&M)		◆						5	15	15	0	0	0	100	0	150	0	285	9
SC-5	Biofiltration and Low Impact Development Retrofits	City of Santa Clarita	$4M-$6M (Capital); $200,000/yr over 15 years (O&M)	◆	◆	◆	◆	◆	◆		5	90	50	0	0	0	100	0	25	10	280	10
SC-6	Septic to Sewer Retrofit Project	City of Santa Clarita	$25M-$35M (Capital); unknown O&M		◆	◆	◆				5	45	45	50	0	0	100	0	25	0	270	11
CLWA-7	Castaic Conduit	Castaic Lake Water Agency	$14,910,000-$16M (Capital); $5,000/yr (O&M)		◆						5	15	10	0	0	0	100	0	125	0	255	12
CLWA-10	Distribution System - RV-2 Modification	Castaic Lake Water Agency	$2,880,000-$3,200,000 (Capital); $5,000/yr (O&M)		◆						5	15	15	0	0	0	100	0	100	0	235	13
CLWA-9	West Saugus Formation Groundwater Resources Monitoring Project	Castaic Lake Water Agency	$628,675			◆	◆				5	30	20	0	0	0	100	0	75	0	230	14
NCWD-1	Santa Clara River – Sewer Trunk Line Relocation Phase II and III	Newhall County Water District	$2,500,000 - $4,000,000 (Capital); $30K/yr over 50 years (O&M)			◆	◆				5	30	30	0	0	0	100	0	25	0	190	15
NCWD-3	Santa Clarita Valley Residential Turf Removal Program	Newhall County Water District	625000 (Capital); $312,500/yr over 2 years (O&M)	◆				◆			5	30	25	0	0	0	100	0	25	0	185	16
CLWA-11	Santa Clarita Valley Volatile Organic Carbon Groundwater Investigation	Castaic Lake Water Agency	$250,000-$5M (Capital)			◆	◆				5	30	20	0	0	0	100	0	25	0	180	17

Upper Santa Clara River Integrated Regional Water Management Plan
Selected Grant Application Projects

Project ID	Project Name	Estimated Cost	Funding Match ($) (Minimum required is 25%)	Requested Grant Funds ($)
SC-1	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	$.5M-$20M (Capital); $25k-100k/yr over 15 years (O&M)	$138,000	$414,000
SCVSD-1	SCVSD Automatic Water Softener Rebate and Public Outreach Program	$1.1M/yr over 3 years	$825,000	$2,475,000
NCWD-2	Pellet Water Softening Treatment Plant - Phase 1	$200,000	$50,000	$150,000
SCWD-2	July 2012 Santa Clarita Water Division Water Use Efficiency Strategic Plan Water Use Efficiency Programs	$301,930-$2,520,469 (Capital); $62,370-$366,223/yr over 8 years (O&M)	$75,000	$225,000
CLWA-3	Santa Clarita Valley Water Use Efficiency Strategic Plan	$1M-$5M/yr over 8 years (Capital)	$625,000	$1,875,000
CLWA-8	Foothill Feeder Connection	$3M-$5M (Capital); $50K/yr over 50 years (O&M)	$1,500,000	$1,500,000
	Grant Administration		$0	$175,000
		TOTAL MATCH	**$3,213,000**	
		TOTAL GRANT REQUEST		**$6,814,000**
		MATCH AS PERCENT TOTAL COST	**32%**	

Stakeholder Meeting, February 28, 2013

- Agenda
- PowerPoint Presentation: Where are We Now and Where are We Headed?

UPPER SANTA CLARA RIVER

Integrated Regional Water Management

Stakeholder Meeting
Thursday, February 28, 2013, 2:30 pm – 4:30 pm
Newhall County Water District Headquarters
23780 North Pine Street, Newhall, CA 91321

AGENDA

2:30	**I.**	**Welcome** *Lauren Everett, Castaic Lake Water Agency (CLWA)*
2:35	**II.**	**General Updates** A. Planning Grant R1 & R2 B. Implementation Grant R1 & R2 C. Local Groundwater Assistance Grants *Lauren Everett, CLWA*
2:50	**III.**	**Consultant Progress Updates** A. Salt and Nutrient Management Plan B. IRWMP Update and Climate Change Technical Study ▪ Public comments on Chapters 1 & 2 ▪ Updated schedule *Lauren Everett, CLWA, Meredith Clement, Kennedy/Jenks (KJ)*
3:20	**IV.**	**IRWMP Process – Where are we now and where are we headed?** *Meredith Clement, KJ*
3:50	**V.**	**Upcoming Meeting Notices & Watershed Updates** A. Joint Meeting of Upper & Lower IRWM Groups/Invasive Weeds Task Force B. DWR IRWM Strategic Planning Workshops C. DWR/WEF IRWM Conference & IWM Summit D. Stakeholder updates *Lauren Everett, CLWA*
4:30	**VIII.**	**Close**

Upper Santa Clara River IRWMP

Where are We Now and Where are We Headed

February 28, 2013 2:30 pm – 4:30 pm

Why do IRWMP Update?

Lots of New Information!

- Climate Change Technical Study
- Salt and Nutrient Management Plan
- Updated Water Demand Information

Meet New IRWMP Standards

Continue Stakeholder Coordination

Identify Current Regional Issues & Needs

IRWMP Update Content

1. Introduction
2. Overview of Region
3. Water Supplies, Water Quality, and Water Demands
4. Watershed Flood Management
5. Climate Change
6. Objectives
7. Resource Management Strategies
8. Project Prioritization and Integration
9. Finance Plan
10. Data Management
11. Coordination and Outreach
12. References

IRWMP Update Public Review

1. Introduction 2. Overview of Region	→	Comments were due 2/7/13
3. Water Supplies, Water Quality, and Water Demands 4. Watershed Flood Management 5. Climate Change 6. Objectives 7. Resource Management Strategies	→	Comments due 3/28/13
8. Project Prioritization and Integration 9. Finance Plan	→	Available 4/5/13, comments due 5/6/13
10. Data Management 11. Coordination and Outreach 12. References	→	Available 5/6/13, comments due 6/6/13

Final Updated IRWMP

Anticipated July 2013!

- Will need to be adopted by Resolution by the governing bodies of each agency that is part of RWMG
- Will need to be adopted by each IRWMP grant project proponent
  - Will need to notice intent to adopt IRWMP per Government Code section 6066
  - Per the Proposition 84 Round 1 Grant Agreement, adoption needs to be complete by April 2014

Final IRWMP Update

DWR Evaluation

- DWR will review/evaluate IRWMP for consistency with 2012 Standards
  - Exact nature of evaluation not yet known, anticipate checklist
  - To be eligible for Proposition 84 Round 3 funding need IRWMP meeting 2012 Standards
  - Anticipate DWR will solicit plans for evaluation in Spring 2014

Ongoing/Future IRWMP Activities

Technical Studies

- Update Recycled Water Master Plan
- Santa Clarita Valley Water Use Efficiency Update
- Salt and Nutrient Management Plan

Implement Projects!

- Region will compete for Proposition 84 Round 2 funding
  - Application due March 29, 2013
  - Draft Funding Recommendations August 2013

Ongoing/Future IRWMP Activities

Implement Even More Projects!

- Proposition 84 Round 3 funding coming up!
  - The Round 3 Application will be a two step process:
  - Step 1. Submit IRWMP Plan for Review by DWR (Spring 2014), *if plan deemed adequate you can move on to Step 2*
  - Step 2. Submit implementation grant application (early 2015)
  - Potential call for projects Spring/Summer 2014 – start thinking about your projects

Questions?

Additional Public Event Materials

- Central and Southern California: IRWMP Planning and Climate Change Agenda

- Watershed Awareness Month Flyer

CENTRAL AND SOUTHERN CALIFORNIA: IRWMP PLANNING AND CLIMATE CHANGE

Watersheds Coalition of Ventura County, Santa Barbara County and Upper Santa Clara River Watershed
Thursday, March 15, 2012 ~ 9:00 a.m. – 12:30 p.m.

Lower Plaza Assembly Room, Hall of Administration
Ventura County Government Center, 800 S. Victoria Avenue, Ventura

Objective	• To provide an introduction to incorporating climate change into IRWMP planning
Audience	• Members of the WCVC, Santa Barbara and Upper Santa Clara River including water managers, technicians, stakeholders and other interested parties • Local land use, air quality and climate change managers, planners/ stakeholders
Desired Outcome	• Shared understanding of (a) climate change impacts on California, and (b) IRWMP/climate change planning process

AGENDA

1. **Welcome and Introductions**
   Lynn Rodriguez, Project Manager, WCVC and Ann Hewitt, Anacapa Consulting Services, Inc.

2. **Our Watersheds and Climate Change (Facilitated Discussion)**

   - Where are we most vulnerable to climate change? What are the most significant impacts?
   - What strategies can we adopt to mitigate our contributions to climate change?
   - What strategies can we adopt to adapt to the impacts of climate change?
   - Is climate change a "game changer" for water planning? What are the challenges?

3. **State of California: Department of Water Resources, Southern Region Office – 9:40 – 10:30 - 50 minutes**

   California, Water and Climate Change: Overview of Climate Change and IRWMP Planning Processes

   Lauma Jurkevics, Climate Change Specialist, California Department of Water Resources (Southern Region)

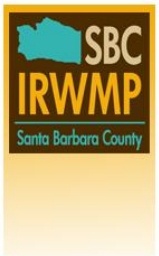
Break – 10:30 (Refreshments will be Served)

4. **Southern Central California: Climate Change, Water and Adaptation**
    - Watersheds Coalition of Ventura County - Lynn Rodriguez and Ann Hewitt
    - California Coastal Conservancy – Bob Thiel, Project Manager
    - Santa Barbara County IRWM Group – Kathy Caldwell, Sr. Project Manager, RMC Water and Environment
    - Upper Santa Clara River IRWM Group – Meredith Clement, Water Resources project Manager, Kennedy/Jenks
    - Calleguas Municipal Water District – Henry Graumlich, Manager of Strategic Planning
    - Questions and Answers

5. **Conclusions**
    - Panel conclusions
    - Wrap-up – Lynn Rodriguez and Ann Hewitt

Please note – no pre-registration is required and there is no fee to attend. If you have questions, please contact Lynn Rodriguez at (805) 654-2455

UPPER SANTA CLARA RIVER
Integrated Regional Water Management



SAVE THE DATES!

Celebrate with us and bring awareness about the Santa Clara River Watershed

Where: Faulkner Farm, 287 S. Briggs Rd. in Santa Paula
When: Wednesday, May 2, 2012 - 4:00 – 7:00 p.m.

Learn from local leaders managing our resources in the Santa Clara River watershed about successful projects and programs that further our knowledge and preserve the health of the watershed. You're also invited to visit several local success stories offered through tours listed below.

Tours of the Watershed

Saturday, May 12, 2012

9 -10 a.m.	Nature walk and talk, The Nature Conservancy Property, Santa Paula
11 a.m.– noon	Guided tour Agriculture Museum, Santa Paula

Saturday, May 19, 2012

9-10 a.m.	Bouquet Creek Restoration Project, Central Park, Santa Clarita
11 a.m. – noon	Recycled water system, La Verne Nursery, Piru

Brought to you by the Santa Clara River Watershed Committee, a subcommittee of the Watersheds Coalition of Ventura County, and the Upper Santa Clara River Water Management Group

Stay Tuned for Further Details

Appendix B

Memorandum of Understanding

Memorandum of Understanding (MOU) between the Castaic Lake Water Agency, the Santa Clarita Water Division of the Castaic Lake Water Agency, Santa Clarita Valley Sanitation District of Los Angeles County, City of Santa Clarita, Los Angeles County Flood Control District, Newhall County Water District, Valencia Water Company, San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy.

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

GAIL FARBER, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

May 01, 2012

ADOPTED
BOARD OF SUPERVISORS
COUNTY OF LOS ANGELES

39 May 1, 2012

SACHI A. HAMAI
EXECUTIVE OFFICER

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
500 West Temple Street
Los Angeles, California 90012

Dear Supervisors:

UPPER SANTA CLARA RIVER REGIONAL WATER MANAGEMENT GROUP MEMORANDUM OF UNDERSTANDING BETWEEN THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND MANAGEMENT GROUP AGENCIES TO UPDATE THE INTEGRATED REGIONAL WATER MANAGEMENT PLAN FOR THE UPPER BASIN OF THE SANTA CLARA RIVER (SUPERVISORIAL DISTRICT 5) (3 VOTES)

SUBJECT

This action is to authorize the Chief Engineer of the Los Angeles County Flood Control District or her designee to execute a Memorandum of Understanding with other members of the Upper Santa Clara River Regional Water Management Group to update the existing Integrated Regional Water Management Plan for the Upper Basin of the Santa Clara River, and authorize a contribution, in an amount not to exceed $7,750 toward the costs of the Plan update. The estimated cost of the Plan update is $355,000 and the Los Angeles County Flood Control District's share is for an amount not to exceed $7,750.

IT IS RECOMMENDED THAT YOUR BOARD ACTING AS THE GOVERNING BODY OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT:

1. Authorize the Chief Engineer of the Los Angeles County Flood Control District or her designee to execute a Memorandum of Understanding with the other members of the Upper Santa Clara River Regional Water Management Group to update the Integrated Regional Water Management Plan for the Upper Basin of the Santa Clara River.

2. Authorize a contribution by the Los Angeles County Flood Control District toward the preparation of the Plan update in an amount not to exceed $7,750.

PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION

The purpose of the recommended actions is to authorize the Chief Engineer of the Los Angeles County Flood Control District (LACFCD) or her designee to execute a Memorandum of Understanding (MOU) with other members of the Upper Santa Clara River Regional Water Management Group (Group) substantially similar to the enclosed draft, to update the Integrated Regional Water Management Plan (Plan), and to authorize the LACFCD to contribute a total amount not to exceed $7,750 toward the costs to update the Plan. Senate Bill 1 Second Extraordinary Session, Chapter 1, Statutes of 2008 (Perata) requires the update to include preparation of a focused climate change technical study, and a salt and nutrient management plan pursuant to the State's Recycled Water Policy. The two technical studies need to be integrated into the Plan to produce a final update, which meets the proposition 84 Guidelines, fills indentified data gaps, and meets the specific water-quality objectives for the Plan.

Implementation of Strategic Plan Goals

The Countywide Strategic Plan directs the provision of Operational Effectiveness (Goal 1) by developing partnerships to effectively leverage resources by using a collaborative effort to develop and implement the Plan, Organizational Effectiveness (Goal 3) by utilizing a collaborative effort to implement projects, and Fiscal Responsibility (Goal 4) by actively seeking grant funds to augment the County's funding sources.

FISCAL IMPACT/FINANCING

There will be no impact to the County General Fund.

The LACFCD will fund its fair share of the activities noted in this letter not to exceed $7,750, and the other Group members will fund their appropriate fair shares. Sufficient funds to cover the LACFCD's share are available in the Fiscal Year 2011-12 Flood Fund Budget.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

The LACFCD joined the current Group pursuant to your Board's authorization on May 1, 2007. The Group was initially formed to prepare and adopt a Plan in accordance with the provisions of Proposition 50, Chapter 8, and Sections 10530 to 10541 of the California Water Code to develop a Plan to improve water supply reliability, water quality, and environmental Stewardship. Proposition 84 designates $215 million in grant funding to be divided among the Los Angeles and Ventura County Region including the Group for projects identified in or consistent with the Plan. IRWM groups are required to update their existing plans to address the provisions of Senate Bill 1 (2008 - Perata).

The estimated cost of the Plan update is $355,000. The Castaic Lake Water Agency (CLWA) applied for a Department of Water Resources (DWR) Proposition 84 Planning Grant to update the Plan and prepare two technical studies. The CLWA was awarded $266,250; therefore, the remaining balance of $88,750 to update the Plan will need to be funded by the Group. Per the enclosed draft MOU, the CLWA will contribute $50,000 and the remaining contribution of $38,750 will

be divided equally among the LACFCD, City of Santa Clarita, Newhall County Water District, Santa Clarita Water Division, and Valencia Water Company or $7,750 each. The MOU will be executed by the current Group members consisting of: the LACFCD, Castaic Lake Water Agency, Santa Clarita Valley Sanitation District of Los Angeles County, City of Santa Clarita, Newhall County Water District, Santa Clarita Water Division of the Castaic Lake Water Agency, the Valencia Water Company, and the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy as a new member. The MOU has provisions for others to join the Group in the future.

ENVIRONMENTAL DOCUMENTATION

The recommended actions are not projects pursuant to the California Environmental Quality Act (CEQA) because they are activities that are excluded from the definition of a project by Section 15378 (b) of the CEQA Guidelines. The proposed actions would create a government funding mechanism that does not involve any commitment to a specific project, which may result in a potentially significant physical impact on the environment.

IMPACT ON CURRENT SERVICES (OR PROJECTS)

Approval of these actions will benefit the County services by allowing the LACFCD to compete for new State grant funding opportunities that leverage Flood Funds.

CONCLUSION

Please return three adopted copies of this letter to the Department of Public Works, Watershed Management Division.

Respectfully submitted,

Gail Farber

GAIL FARBER
Director

GF:GH:sw

Enclosures

c: Chief Executive Office (Rita Robinson)
County Counsel
Executive Office

UPPER SANTA CLARA RIVER
REGIONAL WATER MANAGEMENT GROUP
MEMORANDUM OF UNDERSTANDING

This MEMORANDUM OF UNDERSTANDING (hereinafter referred to as MOU) is entered into and is made effective on the date the last Party signs, and is between the CASTAIC LAKE WATER AGENCY (Agency), including its SANTA CLARITA WATER DIVISION (Water Division), SANTA CLARITA VALLEY SANITATION DISTRICT OF LOS ANGELES COUNTY (Sanitation District), the CITY OF SANTA CLARITA (City), the LOS ANGELES COUNTY FLOOD CONTROL DISTRICT (LACFCD), NEWHALL COUNTY WATER DISTRICT (Water District), the VALENCIA WATER COMPANY (Water Company), and the SAN GABRIEL AND LOWER LOS ANGELES RIVERS AND MOUNTAINS CONSERVANCY (Conservancy) (hereinafter, collectively the Parties or individually as Party).

WHEREAS, the Parties to this MOU establish and participate in the Upper Santa Clara River Regional Water Management Group (hereinafter referred to as GROUP) under the California Water Code Division 6, part 2.2, known as the *Integrated Regional Water Management Planning Act* (hereinafter referred to as the ACT); and

WHEREAS, Section 10531 of the ACT includes the following declarations:

(a) "Water is a valuable natural resource in California, and should be managed to ensure the availability of sufficient supplies to meet the state's agricultural, domestic, industrial, and environmental needs. It is the intent of the Legislature to encourage local agencies to work cooperatively to manage their available local and imported water supplies to improve the quality, quantity, and reliability of those supplies."

(b) "Local agencies can realize efficiencies by coordinating and integrating their assets and seeking mutual solutions to water management issues."

(c) "The reliability of water supplies can be significantly improved by diversifying water portfolios, taking advantage of local and regional opportunities, and considering a broad variety of water management strategies as described in the California Water Plan."

(d) "The implementation of this part will facilitate the development of integrated regional water management plans, thereby assisting each region of the state to improve water supply reliability, water quality, and environmental stewardship to meet current and future needs."

(e) "Water management is integrally linked to public health and the health of all natural resources within our watersheds. It is the intent of the Legislature that water management strategies and projects are carried out in a way that promotes these important public values"; and

WHEREAS, Section 10539 of the ACT states that a Regional Water Management Group means a group in which three or more local agencies, at least two of which have statutory authority over water supply or water management, as well as those other persons who may be necessary for the development and implementation of a plan that meets the requirements in Sections 10540 and 10541, participate by means of a Joint Powers Agreement, Memorandum of Understanding, or other written agreement, as appropriate, that is approved by the governing bodies of those local agencies; and

WHEREAS, under the ACT, the Agency, Water Division, Sanitation District, City, LACFCD, Water District, and Water Company collaboratively prepared an Integrated Regional Water Management Plan for the Upper Basin of the Santa Clara River (hereinafter referred to as PLAN) pursuant to a 2007 Memorandum Of Understanding; and

WHEREAS, the upper portion of the Santa Clara River Watershed, as defined for the purposes of the PLAN as the USCR IRWM Region, is bounded by the San Gabriel Mountains to the south and southeast, the Santa Susana Mountains to the southwest, the Liebre Mountains and Transverse Ranges to the northeast and northwest, and westward to the Ventura County Northeasterly Boundary Line; and

WHEREAS, Agency, Water Division, LACFCD, City, Water District, Sanitation District, Water District, Water Company and the Conservancy have agreed to work collectively to prepare an update of the PLAN, including a Salt and Nutrient Management Plan, and Climate Change Technical Study (hereinafter referred to as PLAN update); and

WHEREAS, Conservancy has requested that it be admitted as a party to this MOU and as a member of the GROUP; and

WHEREAS, the Department of Water Resources (DWR) has approved the USCR IRWM Region in its Region Acceptance Process; and

WHEREAS, there is a need to prepare a PLAN update to reflect the requirements of Senate Bill 1 Second Extraordinary Session, Chapter 1, Statutes of 2008 (Perata), which requires as a condition of grant acceptance, the commitment of the GROUP to prepare an updated Plan consistent with new Plan guidelines prepared by DWR; and

WHEREAS, the State Water Resources Control Board's Recycled Water Policy requires the development of a regional Salt and Nutrient Management Plan for the Eastern Santa Clara Groundwater Basins; and

WHEREAS, there is a need to pay the costs of the PLAN update; and

WHEREAS, the study area for the PLAN update includes all or a portion of the service areas of the Parties; and

WHEREAS, Parties are willing to contribute to the PLAN update with the necessary data to prepare PLAN update and to review and comment on the draft versions of PLAN update; and

WHEREAS, Agency, on behalf of Parties, submitted a planning grant application for preparation of PLAN Update, funded equally by Agency and the Sanitation District, to DWR and DWR has authorized a planning grant in the amount of $266,250 toward PLAN Update; and

WHEREAS, DWR requires a minimum contribution of 25 percent matching funds as a condition of receipt of the grant for preparation of PLAN Update; and

WHEREAS, PLAN update costs are currently estimated to be $355,000 and this MOU allocates the cost difference between the estimated cost of PLAN Update and the required 25 percent matching fund cost (estimated to be $88,750) as described in provision 3b; and

NOW, THEREFORE, in consideration of the mutual benefits to be derived by the Parties and of the promises herein contained, Parties agree as follows:

(1) All recitals set forth above are incorporated herein and constitute a part of the MOU among Parties.

(2) Upon the Effective Date of this MOU, the Group is hereby reestablished and includes each of the Parties.

(3) Parties shall cooperate in the preparation of PLAN update as follows:

a. Agency will solicit bids, select a consultant, award, and administer a contract to prepare PLAN update, and for purposes of filling that role shall hereinafter be referred to as CONTRACT ADMINISTRATOR.

b. The matching funds cost of the update of the PLAN required by DWR as a condition of the planning grant award, will be paid for as follows: $50,000 to be contributed by Agency and $38,750 to be divided equally among the LACFCD, City, Water Division, Water Company, and the Water District or $7,750 each.

c. The Conservancy will award a $10,000 grant to the Agency, which will be used at the end of the PLAN Update to reimburse Agency for any PLAN Update related expenses that exceed the expected $355,000 in costs.

d. Agency will pay the consultant(s) selected to prepare PLAN Update, Salt and Nutrient Management Plan, and Climate Change Technical Study, and will seek reimbursement for a portion of those costs from DWR pursuant to the planning grant award. Agency will invoice each Party listed in item (3)b above one time after January 1, 2012, for its share of the $38,750 nongrant funded costs.

e. This MOU will remain in effect, unless, upon a ten (10) day prior written notice to the other Parties, a majority of the Parties terminate this MOU.

f. The Parties shall provide and share all of their necessary and relevant information, data, studies, and/or documentation for PLAN update in their respective possession as may be needed for PLAN update in a timely manner, as requested.

g. Each Party shall review and comment on the draft(s) and final version(s) of technical reports and each draft of PLAN update in a timely manner, as requested.

h. Agency shall act on behalf of all Parties with respect to the requirements of Water Code, Section 10543(a) and (b).

(4) IT IS MUTUALLY UNDERSTOOD AND AGREED AS FOLLOWS:

a. The GROUP shall not formally adopt PLAN update until at least three Parties have endorsed PLAN update by Resolution or other formal action of each entity's legislative or governing body, including at least two agencies with statutory authority over water supply or water management, those being Agency, Sanitation District, LACFCD, and Water District.

b. If the governing body of any Party determines not to endorse PLAN update, such action shall constitute automatic withdrawal from GROUP. A Party that automatically or voluntarily withdraws from GROUP shall not be entitled to reimbursement of any amounts previously paid by that Party. A Party that is deemed to have withdrawn from GROUP under this subsection shall automatically be reinstated when that Party endorses PLAN update and accepts and executes any additions or amendments to this MOU.

c. This MOU may be amended or modified only by mutual written consent of all Parties that are members of GROUP at the time of such amendment or modification. No waiver of any term or condition of this MOU by any Party shall be a continuing waiver thereof.

d. There may be additional parties entering into this MOU by amendment. Any MOU amendment adding a new party or parties must be approved by all Parties.

e. If any provision of this MOU is held, determined, or adjudicated to be illegal, void, or unenforceable by a court of competent jurisdiction, Parties agree that the remainder of this MOU shall be given effect to the fullest extent possible.

f. Notice: Any correspondence, communication, or contact concerning this MOU shall be directed to the following:

Agency:

Mr. Dan Masnada
General Manager
Castaic Lake Water Agency
27234 Bouquet Canyon Road
Santa Clarita, CA 91350
Fax No.: (661) 297-1610

Water Division:

Mr. Mauricio Guardado
Retail Manager
Santa Clarita Water Division of the Castaic Lake Water Agency
22722 West Soledad Canyon Road
Santa Clarita, CA 91350
Fax No.: (661) 286-4333

City:

Mr. Ken Pulskamp
City Manager
City of Santa Clarita
23920 Valencia Boulevard, Suite 300
Santa Clarita, CA 91355
Fax No.: (661) 259-8125

Water District:

Mr. Steve Cole
General Manager
Newhall County Water District
23780 North Pine Street
Newhall, CA 91321
Fax No.: (661) 259-8137

LACFCD:

Ms. Gail Farber
Director of Public Works
County of Los Angeles
P.O. Box 1460
Alhambra, CA 91802-1460
Fax No.: (626) 458-4022

Sanitation Districts:

Mr. Stephen R. Maguin
Chief Engineer and General Manager
Santa Clarita Valley Sanitation District of
Los Angeles County
1955 Workman Mill Road
Whittier, CA 90601
Fax No.: (562) 695-8660

Water Company:

Mr. Keith Abercrombie
General Manager
Valencia Water Company
24631 Avenue Rockefeller
Valencia, CA 91355
Fax No.: (661) 294-3806

Conservancy:

Mr. Mark Stanley
Executive Officer
Rivers and Mountains Conservancy
"El Encanto"
100 North Old San Gabriel Canyon Road
Azusa, CA 91702

g. Notice shall be deemed as given upon personal delivery, receipt of fax confirmation, or five days after deposit in U.S. Mail, first-class postage, prepaid, and addressed as set out above.

h. Each person signing this MOU in a representative capacity for a Party represents that he or she has the necessary power and authority to bind that Party.

i. This MOU may be executed in counterparts, each counterpart being an integral part of this MOU.

The Parties are signing this MOU as of the date stated opposite each signature.

The Parties are signing this MOU as of the date stated opposite each signature.

CASTAIC LAKE WATER AGENCY

By _____
DAN MASNADA, General Manager

Date _____

APPROVED AS TO FORM:

Kidman, Behrens and Tague

By _____
Legal Counsel

SANTA CLARITA VALLEY SANITATION
DISTRICT OF LOS ANGELES COUNTY

By _____
Chairperson

Date NOV 0 9 2011

ATTEST:

_____
Secretary

APPROVED AS TO FORM:

Lewis, Brisbois, Bisgaard & Smith

By _____
District Counsel

CITY OF SANTA CLARITA:

By _____
KEN PULSKAMP, City Manager

Date 11/28/14

ATTEST:

_____
City Clerk

APPROVED AS TO FORM:

Burke, Williams & Sorensen, LLP

By _____
Legal Counsel

LOS ANGELES COUNTY FLOOD
CONTROL DISTRICT

By _____
GAIL FARBER, Chief Engineer

Date 6/19/12

APPROVED AS TO FORM:

By _____
County Counsel

VALENCIA WATER COMPANY

By _____
Keith Abercrombie, General Manager

Date 10/19/2011

SANTA CLARITA WATER DIVISION

By _____
MAURICIO GUARDADO JR., Retail Manager

Date 9/29/11

NEWHALL COUNTY WATER DISTRICT

By _____
STEVE COLE, General Manager

Date 10.17.2011

APPROVED AS TO FORM:

By _____
Legal Counsel

March 28, 2011 - Item 18

RESOLUTION NO. 2011-12

RESOLUTION OF THE SAN GABRIEL AND LOWER LOS ANGELES RIVERS AND MOUNTAINS CONSERVANCY (RMC) AUTHORIZING A GRANT AND MEMORANDUM OF AGREEMENT FOR THE UPPER SANTA CLARA RIVER INTEGRATED REGIONAL WATER MANAGEMENT PLAN UPDATE AND GRANT ADMINISTRATION (RMC 10018)

WHEREAS, The legislature has found and declared that the San Gabriel River and its tributaries, the Lower Los Angeles River and its tributaries, and the San Gabriel Mountains, Puente Hills, and San Jose Hills constitute a unique and important open space, environmental, anthropological, cultural, scientific, educational, recreational, scenic, and wildlife resource that should be held in trust to be preserved and enhanced for the enjoyment of, and appreciation by, present and future generations; and

WHEREAS, The people of the State of California have enacted the Clean Water, Clean Air, Safe Neighborhoods, and Coastal Protection Bond Act of 2002 (Park Bond Act Proposition 40) which provides funds for the RMC Grant Program; and

WHEREAS, The people of the State of California have enacted the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Proposition 50), which provides funds for the RMC grant program; and

WHEREAS, The people of the State of California have enacted the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Proposition 84), which provides funds for the RMC grant program; and

WHEREAS, The RMC may award grants to local public agencies, state agencies, federal agencies, and nonprofit organizations for the purposes of Division 22.8 the Public Resources Code; and

WHEREAS, The Applicant has submitted a project which is consistent with the purposes of Division 22.8 of the Public Resources Code and the Bond Act; and

WHEREAS, this action is exempt from the environmental impact report requirements of the California Environmental Quality Act (CEQA); and NOW

Therefore be it resolved that the RMC hereby:

1. FINDS that this action is consistent with the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy Act and is necessary to carry out the purposes and objectives of Division 22.8 of the Public Resources Code.

2. FINDS that the actions contemplated by this resolution are exempt from the environmental impact report requirements of the California Environmental Quality Act.

3. Authorizes the Executive Officer enter into a Memorandum of Understanding with Upper Santa Clara River Integrated Regional Water Management Plan Update and Grant Administration provided the final draft is substantially similar to the March 2011 MOU.

4. Authorize the expenditure of $10,000 allocated from the support budget for expenses which are consistent with Proposition 84.

5. ADOPTS the staff report dated March 28, 2011

~ End of Resolution ~

Passed and Adopted by the Board of the SAN GABRIEL AND LOWER LOS ANGELES RIVERS AND MOUNTAINS CONSERVANCY on March 28, 2011

Frank Colonna, Chair

ATTEST:

Terry Fujimoto
Deputy Attorney General

Appendix C

Water Related Policies

List of Water Related Policies and Programs within the Upper Santa Clara River IRWMP Region

Agency	Plan, Policy or Program	Water Resource Management Strategy/Linkage	Document Location
California Association of Resource Conservation Districts	Guide to Watershed Permitting for the State of California	Land use planning	http://ucanr.org/sites/csnce/files/57548.pdf
California Department of Water Resources	California Water Plan Updates 2009 and 2013	Water planning, land use, and climate change nexus	http://www.waterplan.water.ca.gov/cwpu2009/index.cfm; and http://www.waterplan.water.ca.gov/cwpu2013/index.cfm
California Department of Water Resources	Integrated Regional Water Management (IRWM) Program	Water planning, water conservation, land use planning	http://www.dwr.water.ca.gov/irwm/grants/index.cfm
California Department of Water Resources	DWR Environmental Stewardship Policy	Environmental stewardship	http://www.waterplan.water.ca.gov/docs/news/EnvironmentalStewardshipPolicy2010.pdf
California Department of Water Resources	DWR's Sustainability targets	Water conservation, energy, climate change, sustainability	http://www.water.ca.gov/climatechange/docs/Memo_sustainability-Sept%202010.pdf
California Department of Water Resources	DWR's Climate Action Plan (greenhouse gas emissions reduction plan)	Water conservation, energy, climate change	http://www.water.ca.gov/climatechange/CAP.cfm
California Department of Water Resources	DWR's Sustainability Policy	Environmental stewardship, water conservation	http://www.water.ca.gov/climatechange/docs/Sustainability_Policy.pdf
California Regional Water Quality Control Board – Los Angeles Region	State of the Watershed - Report on Surface Water Quality The Santa Clara River Watershed	Water quality	http://www.waterboards.ca.gov/losangeles/water_issues/programs/regional_program/wmi/ws_santaclara.shtml
California Regional Water Quality Control Board – Los Angeles Region	Los Angeles Region Basin Plan	Water quality	http://www.waterboards.ca.gov/losangeles/water_issues/programs/basin_plan/basin_plan_documentation.shtml
City of Santa Clarita	City of Santa Clarita General Plan - Conservation and Open Space Element	Water resources, surface water, groundwater, long-term water	http://www.codepublishing.com/CA/SantaClarita/html/SantaClarita

Agency	Plan, Policy or Program	Water Resource Management Strategy/Linkage	Document Location
		supply, flood control, water conservation, water quality	GP/SantaClaritaGP.html
City of Santa Clarita	Resolution No. 05-103 A Resolution Of The City Council Of The City Of Santa Clarita, California, For The Adoption Of A Program Regarding Environmentally Preferable Purchasing	Resource stewardship	http://www.santa-clarita.com/Modules/ShowDocument.aspx?documentid=2666
County of Ventura Planning Division	Final Wetland Permitting Guide; Permitting Stream and Wetland Projects in Ventura County, along the Santa Clara River in Los Angeles County (2006)	Land use planning	http://www.ventura.org/rma/planning/pdf/bio/FinalPDF.pdf
Department of Water and Power City of Los Angeles and United Water Conservation District	1932 Agreement Between LADWP and UWCD for Flows from Bouquet Canyon Dam	Flood control	Hardcopy Available at CLWA
Los Angeles County	Los Angeles County General Plan - Conservation and Open Space Element and General Goals and Policies	Water supply, water conservation, water quality, natural watershed processes and protection	http://planning.lacounty.gov/generalplan
Los Angeles County	Santa Clarita Valley Area Plan - Conservation and Open Space Element	Water resources, surface water, groundwater, long-term water supply, flood control, water conservation, water quality	http://planning.lacounty.gov/ovov
Newhall County Water District	Ordinance No. 112, An Ordinance Amending Ordinance 101 Water Conservation, Shortage, Drought and Emergency Response Ordinance of Newhall County Water District	Water conservation, emergency supply	http://www.water.ca.gov/urbanwatermanagement/2010uwmps/Valencia%20Water%20Company/Appendix%20F_DraftWaterShortageContingencyOrdinances.pdf
Santa Clarita Valley	2010 Urban Water Management Plan	Water supply, water conservation, water quality, water	http://clwa.org/publications/2010-urban-water-management-plan

Agency	Plan, Policy or Program	Water Resource Management Strategy/Linkage	Document Location
		quality	
Santa Clarita Valley Family of Water Suppliers	Santa Clarita Valley Water Use Efficiency Plan	Water supply, water conservation	http://clwa.org/wp-content/uploads/2011/09/Santa-Clarita-Valley-WUE-Strategic-Plan-Final-Sept-2008_FINAL.pdf

Appendix D

Plan Projects

Projects submitted with a Long Form

Long Forms are used for projects that are deemed ready for implementation and for which detailed project information is available. These projects were scored and ranked based on established criteria.

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives							Rank
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*	
SC-1	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	City of Santa Clarita	Santa Clara River Conservancy; Angeles National Forest; Santa Clara Invasive Weeds Task Force	$0.5M-$20M (Capital); $25 - $100k/yr over 15 years (O&M)	◆	◆	◆	◆	◆	◆	◆	1
SCVSD-1	SCVSD Automatic Water Softener Rebate and Public Outreach Program	Santa Clarita Valley Sanitation District	City of Santa Clarita; County of Los Angeles	$1.1M/yr over 3 years (O&M)			◆				◆	2
NCWD-2	Pellet Water Softening Treatment Plant - Phase 1	Newhall County Water District	NA	$250,000 - $500,000 (Capital)	◆		◆	◆			◆	3
AA/BCN-1	Bouquet Canyon Creek Restoration, Control of Invasive Weeds	Agricultural Access/Bouquet Canyon Network (Currently no eligible applicant as Sponsor Agency)	Antelope Valley Resource Conservation District; Natural Resource Conservation District; Cooper Ecological Monitoring/Leathermann BioConsulting, Inc.; LA County Fire; Angeles National Forest	$20,240 - $52,852 (Capital); $13,052/yr over 5 years (O&M)		◆	◆	◆	◆	◆	◆	4
SCWD-2	July 2012 Santa Clarita Water Division Water Use Efficiency Strategic Plan Water Use	Santa Clarita Water Division	Castaic Lake Water Agency; City of Santa Clarita	$301,930-$2,520,469 (Capital); $62,370-	◆	◆	◆	◆			◆	5
SCVSD-2	Saugus Water Reclamation Plan - Ultraviolet Light Disinfection Facility	Santa Clarita Valley Sanitation District	Castaic Lake Water Agency	$8M-$14M (Capital); $2K/yr for 20 years (O&M)	◆	◆	◆	◆				6
CLWA-3	Santa Clarita Valley Water Use Efficiency Strategic Plan	Castaic Lake Water Agency	LACWD#36; Newhall County Water District; Santa Clarita Water Division; Valencia Water Company	$1M-$5M/yr over 8 years (Capital)	◆	◆	◆					7
LADPW-9	SCR South Fork Rubber Dam No. 1 and Spreading Grounds	Los Angeles County Flood Control District	NA	$5M-$9M (Capital); $50K/yr over 50 years (O&M)		◆	◆	◆	◆			8
CLWA-8	Foothill Feeder Connection	Castaic Lake Water Agency	Newhall County Water District; City of Santa Clarita; LACWD#36	$3M-$5M (Capital); $50K/yr over 50 years (O&M)		◆						9
SC-5	Biofiltration and Low Impact Development Retrofits	City of Santa Clarita	Los Angeles County; Castaic Lake Water Agency	$4M-$6M (Capital); $200,000/yr over 15 years (O&M)	◆	◆	◆	◆	◆	◆		10

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives							Rank
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*	
SC-6	Septic to Sewer Retrofit Project	City of Santa Clarita	NA	$25M-$35M (Capital); unknown O&M		◆	◆	◆				11
CLWA-7	Castaic Conduit	Castaic Lake Water Agency	NA	$14,910,000-$16M (Capital); $5,000/yr (O&M)		◆						12
CLWA-10	Distribution System - RV-2 Modification	Castaic Lake Water Agency	NA	$2,880,000-$3,200,000 (Capital); $5,000/yr (O&M)		◆						13
CLWA-9	West Saugus Formation Groundwater Resources Monitoring Project	Castaic Lake Water Agency	NA	$628,675			◆	◆				14
NCWD-1	Santa Clara River – Sewer Trunk Line Relocation Phase II and III	Newhall County Water District	NA	$2,500,000 - $4,000,000 (Capital); $30K/yr over 50 years (O&M)		◆	◆	◆				15
NCWD-3	Santa Clarita Valley Residential Turf Removal Program	Newhall County Water District	Castaic Lake Water Agency; Santa Clarita Water Division; Valencia Water Company; LA County Waterworks #36	625000 (Capital); $312,500/yr over 2 years (O&M)	◆				◆			16
CLWA-11	Santa Clarita Valley Volatile Organic Carbon Groundwater Investigation	Castaic Lake Water Agency	Newhall County Water District; City of Santa Clarita; LACWD#36	$250,000-$5M (Capital)			◆	◆				17

Projects submitted with a Short Form

Short Forms are used for projects that are primarily in a conceptual phase and not deemed ready for implementation. These projects were not scored or ranked.

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
AA/BCN-2	Feasibility of Arundo Stem Cutting Ram (ASCR)	Agricultural Access/Bouquet Canyon	NA	<$100K		◆		◆	◆		◆
CLWA-1	Irrigation Efficiency Program	Castaic Lake Water Agency	NA	$100K-$1M	◆					◆	
CLWA-2	Water Use Efficiency Certification	Castaic Lake Water Agency	NA	$100K-$1M	◆					◆	
CLWA-4	ESFP Sludge Collection System	Castaic Lake Water Agency	NA	$1M-$1M		◆	◆				
CLWA-5	Saugus Formation Replacement Wells	Castaic Lake Water Agency	NA	$1M-$10M		◆		◆			
CLWA-6	Santa Clarita Valley Drought Relief Wells	Castaic Lake Water Agency	NA	$1M-$1M		◆					
CLWA-12	Update Rio Vista WTP Education Model	Castaic Lake Water Agency	NA	<$100,000	◆			◆		◆	
LACWD36-1	Advanced Meter Infrastructure	LACWD#36	NA	<$100,000	◆						
LACWD36-2	Cash for Grass Rebate Program	LACWD#36	NA	<$100,000	◆						
LACWD36-3	Landscape Irrigation Efficiency Program	LACWD#36	NA	<$100,000	◆						
LACWD36-4	Apam and Bayfield Water Main	LACWD#36	NA	$100K-$1M		◆					

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
LACWD36-5	Hasley Canyon Road Water Main, Turnout Connection, and Pump Station Project	LACWD#36	NA	$1M-$10M		◆					
LACWD36-6	Replacement of 8-inch Water Main along Del Valle Road	LACWD#36	NA	$100K-$1M		◆					
LADPW-1	Lower San Francisquito Spreading Grounds	Los Angeles County Flood Control District	NA	$3M-$6M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-2	Newhall Creek In-River Spreading Grounds	Los Angeles County Flood Control District	NA	$2M-$5M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-3	Placerita Creek Off-River Spreading Grounds	Los Angeles County Flood Control District	NA	$3M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
LADPW-4	Santa Clara In-River Spreading Grounds No. 1	Los Angeles County Flood Control District	NA	$4M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-5	Santa Clara In-River Spreading Grounds No. 2	Los Angeles County Flood Control District	NA	$2M-$5M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-6	Santa Clara Off-River Spreading Grounds	Los Angeles County Flood Control District	NA	$4M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-7	Santa Clara River Rubber Dam No.1	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-8	Santa Clara River Spreading Grounds	Los Angeles County Flood Control District	NA	$7M-$10M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-10	SCR South Fork Rubber Dam No. 2	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
LADPW-11	SCR South Fork Rubber Dam No. 3	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-12	SCR South Fork Rubber Dam No. 4	Los Angeles County Flood Control District	NA	$5M-$7M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
LADPW-13	Upper San Francisquito Spreading Grounds	Los Angeles County Flood Control District	NA	$3M-$6M (Capital); $25K/yr over 50 years (O&M)		◆	◆	◆	◆		
NCWD-4	Recycled Water Onsite Conversion	Newhall County Water District	NA	$100K-$1M	◆					◆	
NCWD-5	Advanced Metering Infrastructure Program	Newhall County Water District	NA	$1M-$10M	◆	◆		◆			◆
SC-2	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation	City of Santa Clarita	Forest Service; Santa Clara River Conservancy	$1M-$10M	◆	◆	◆	◆	◆	◆	◆
SC-3	City of Santa Clarita Biofiltration and Low Impact Development Retrofits	City of Santa Clarita	NA	$1M-$10M	◆	◆	◆		◆	◆	
SC-4	Septic to Sewer Retrofit Project	City of Santa Clarita	NA	>$10M		◆	◆	◆			

Project ID	Project Name	Sponsor Agency	Coordinating/ Partnering Agency	Estimated Cost	Objectives						
					Reduce Potable Water Demand	*Increase Water Supply*	*Improve Water Quality*	*Promote Resource Stewardship*	*Flooding/ Hydromodification*	*Climate Change Adaptation*	*GHG Reduction*
SCEEC-1	Linking SCEEC to the Upper Santa Clara River IRWMP	Santa Clarita Environmental Education Consortium	NA	<$100K	◆		◆	◆	◆	◆	
SCWD-1	Advanced Metering Infrastructure Program	Santa Clarita Water Division	NA	$1M-$10M	◆	◆		◆			◆
SCWD-3	GIS Development and Implementation	Santa Clarita Water Division	NA	$1M-$10M		◆	◆				◆
VWC-1	Regional High Resolution GIS Mapping	Valencia Water Company	NA	$100K-$1M				◆			
VWC-2	Valleywide Conservation Database	Valencia Water Company	NA	<$100K	◆			◆		◆	
VWC-3	Advanced Metering Infrastructure Program	Valencia Water Company	NA	$1M-$10M	◆	◆		◆			◆
VWC-4	CII Consevation Plan	Valencia Water Company	NA	<$100K	◆					◆	

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

City of Santa Clarita

Agency / Organization / Individual Address:

23920 Valencia Blvd.
Santa Clarita, CA 91355

Possible Partnering Agencies:

Santa Clara River Conservancy, Angeles National Forest, Santa Clara River Invasive Weeds Task Force

Name:*

Heather Merenda

Title:

Environmental Programs Coordinator/Sustainability Planner

Telephone:* 661-284-1413

Fax: 661-255-4356

Email:*

hmerenda@santa-clarita.com

Website:

www.santa-clarita.com
www.greensantaclarita.com
www.vcrcd.org/scarp.cfm
http://ucanr.org/sites/SCRIWTF/

Project Name:*

Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude. (approximate near Bouquet Canyon Rd and Santa Clara River)

Project Latitude:	34° 25' N	**Project Longitude:**	118° 32' W

Location Description:	The entire upper Santa Clara River Watershed is part of the work. However, the more recent work is two fold – one area is the City owned river property that served as a demonstration site. This is 297 acres of Santa Clara River roughly between Bouquet Canyon Road and the 5 freeway. The second effort really encompasses the entire upper Santa Clara River region, including Angeles National Forest and tributaries to the Santa Clara River

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Angeles National Forest
- Santa Clara River Conservancy
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

new phase, expansion

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The City of Santa Clarita, Angeles National Forest, and other stakeholders are implementing an environmentally beneficial project in the upper Santa Clara River watershed including its tributaries (~16,300 acres) – the Upper Santa Clara River Arundo/Tamarisk Removal Plan (SCARP). Restoration of riparian habitat, increase of water quantity, improvement of water quality, and reduction of flood/wildfire hazard will be accomplished through the removal of invasive plant species, some of which have colonized in large extents of the Upper Santa Clara River watershed. The primary species of concern are arundo (*Arundo donax*) and tamarisk (*Tamarix* spp.).

The harmful effects of invasive non-native plants such as arundo and tamarisk are well documented. In fact, the removal of arundo and other non-native invasive plants is a priority task for several regulatory agencies in Southern California. Invasive weed infestations are most effectively addressed on a regional scale and done systematically over a period of many years. Since most invasive plants are spread via travel downstream, it is important to begin in the uppermost reaches of the watershed and work down.

Both arundo and tamarisk are officially recognized as undesirable invasive plants. Both plants are listed as 'A-1' invaders (the most invasive and widespread wildland pest plants) by the California Invasive Plant Council and as noxious weeds by the California Department of

Food and Agriculture (CDFA). While the degree and specifics of problems associated with these species vary, general negative effects associated with the establishment of arundo and tamarisk within the watershed include the following:

- **Water Quality:** Reduction in the shading of surface water, thereby resulting in reduction of bank-edge river habitats, higher water temperature, lower dissolved-oxygen content, raised pH, and conversion of ammonia to toxic unionized ammonia, chloride salt deposition; Arundo also serves to collect and increase trash.
- **Water Supply:** Loss of surface and groundwater through heavy consumption and rapid transpiration.
- **Flooding:** Obstruction of flood flows with associated damage to public facilities including bridges and culverts, and to private property such as important farmland.
- **Erosion:** increased erosion of streambanks, associated damage to habitats and farmlands due to channel obstructions, and decreased bank stability associated with shallow-rooted arundo.
- **Fire Hazards:** Substantially increased danger of wildfire occurrences, intensity, and frequency, and a decrease in the role riparian areas infested with arundo play as firebreaks or buffers.
- **Native Habitats:** Displacement of critical riparian habitat through monopolization of soil moisture by dense monocultures of arundo and tamarisk.
- **Native Wildlife:** Reduction in diversity and abundance of riparian-dependent wildlife due to decreased habitat quality, loss of food and cover, and increased water temperatures.
- **Threatened and Endangered Species:** Substantial reductions in suitable habitat available for state and federally listed species such as the least Bell's vireo, southwestern willow flycatcher, yellow-billed cuckoo and red-legged frog.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Part 3. Project Description

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.*

The SCARP implementation project will focus on removal of non-native invasive species, primarily arundo, from the sites identified in the planning phase. The current estimate is approximately 1,500 acres. However, since the SCARP implementation is a long-term project with extensive costs and logistical issues.

The project will consisted of two phases. The first phase included the initial treatment of the arundo, which includes biomass removal and herbicide application on the demonstration site. Arundo may be ground in place with mechanical equipment such as a brush grinder (where appropriate), or removed by manual means employing tools such as chain saws and brush cutters. Upon removal of the target vegetation, appropriate aquatically approved herbicide will be applied. In areas where mechanical vegetation grinding is to occur, arundo will be allowed to resprout to a height of 2 to 3 feet, and herbicide will be applied via foliar spray. In areas where manual removal is to occur, herbicide will be applied immediately to the cut stumps via daubing or painting. Foliar application of herbicide may also occur on stands where appropriate. In addition to arundo, other invasive plants may be removed, if applicable. The second phase is a diligent monitoring and maintenance program to facilitate retreatments and avoid re-infestation of the site and expanding to additional areas of the upper Santa Clara River.

The second phase, which has begun, expands these efforts beyond arundo and the demonstration site. Private property owners in Bouquet Canyon have collaborated to start addressing the arundo in that tributary. Angeles National Forest has an Environmental Assessment for public comment and plans to remove arundo from Bouquet Creek and San Francisquito Creek. There are City owned properties that this second phase will focus on. The next phase addresses tamarisk and other plants identified is the SCARP document. In addition, once arundo has had initial treatment, a different management technique is required.

As arundo contains significant energy resources in its root structure, it is difficult to eradicate it in a single treatment phase. Therefore, this project proposal also includes a long-term maintenance period for each site after initial treatment. During this time, retreatments of herbicide will be applied regularly to exhaust the belowground resources of the plant and lead to its elimination from the treatment area. Project reconnaissance visits to areas upstream of the treatment area indicate that significant arundo populations do not exist above the site. As potential for re-infestation from upstream sources is thus low, it is expected that in five years, arundo will be eradicated from the project site, and significant growth of native riparian vegetation will be achieved. Frequent monitoring of the site will ensure that any changes in the site, such as additional arundo resprouts, will be treated in a timely manner.

In addition to removal of noxious weeds, this project contains a potential restoration

component. Monitoring of the site will indicate if revegetation is necessary. Native species common to the site such as willows (*Salix sp.*) and mule fat (*Baccharis salicifolia*) reestablish readily through natural recruitment once competition from non-native species is removed. However, it may be determined that certain areas within the site require more rapid enhancement than natural recruitment can provide. This would be accomplished through the installation of willows (*Salix sp.*) and mule fat (*Baccharis salicifolia*) cuttings, as appropriate.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- alluvial groundwater under the Santa Clara
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Arundo and Tamarisk Removal Plan Long Term Implementation Plan
- Santa Clara River Watershed Arundo and Tamarisk Removal Plan Santa Clarita Site Specific Plan
- Santa Clara River Watershed Arundo and Tamarisk Removal Plan Environmental Impact Report

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	reduces the environmental water demand from the Santa Clara River which is 50% of the SCV water supply
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	The supply of water is increased for other uses because the arundo and tamarisk demand much more water than native riparian forest
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Tamarisk is a source of chloride, as it drops chloride from its leaves to the surface, which is picked up by rain and other flows. The reduction in shade increases water temperature resulting in higher chance of algal blooms
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	Arundo and tamarisk take over native habitat, destroying native flora and fauna. Arundo infestation use so much water they desiccate ponds of water that stickleback depend on.
Flooding/Hydromodification	Large stands of arundo create a flooding hazard and can cause severe erosion from the large mats of roots that hold the stands of arundo in place
Climate Change Adaptation	During the summer months, arundo turns into a dry straw. It is a fire hazard, as firefighters direct fires to the Santa Clara River as a fire break. Dry arundo actually spreads fire. California projects a higher number and bigger intensity of wildfires.
Climate Change Prevention	Increased local water supplies reduce the energy needed to pump water from northern California.

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	X NA	Agricultural Water Use Efficiency
☐ Primary	X Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	X Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	X NA	System Reoperation
☐ Primary	☐ Secondary	X NA	Water Transfers
☐ Primary	X Secondary	☐ NA	Other (Please State): Reduce Delta demand
Increase Water Supply			
☐ Primary	☐ Secondary	X NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	X NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	X NA	Precipitation Enhancement
☐ Primary	X Secondary	☐ NA	Recycled Municipal Water
☐ Primary	X Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
X Primary	☐ Secondary	☐ NA	Other (Please State): Reduced environmental water
Improve Water Quality			
☐Primary	☐Secondary	X NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	X NA	Groundwater/Aquifer Remediation
☐ Primary	X Secondary	☐ NA	Matching Quality to Use
☐ Primary	X Secondary	☐ NA	Pollution Prevention
X Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	X Secondary	☐ NA	Urban Runoff Management
☐ Primary	X Secondary	☐ NA	Other (Please State) water temperature and algae

Practice Resource Stewardship			
☐ Primary	☐ Secondary	X NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	X NA	Economic Incentives (loans, grants, water pricing)
X Primary	☐ Secondary	☐ NA	Ecosystem Restoration
X Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	X NA	Land Use Planning and Management
☐ Primary	X Secondary	☐ NA	Recharge Areas Protection
☐ Primary	X Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	X Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	X Secondary	☐ NA	Flood Risk Management
Other Strategies			
X Primary	☐ Secondary	☐ NA	Please State: _fire management____

Is the proposed project an element or phase of a regional or larger program?	X Yes ☐ No
If yes, please identify the program	_Santa Clara River Watershed Arundo and Tamarisk Removal Plan____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	complete	July 1, 2006 **(mm/dd/yyyy)**
Feasibility Study	complete	July 1, 2006 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	complete	July 1, 2006 **(mm/dd/yyyy)**
CEQA/NEPA	complete	February 1, 2006 **(mm/dd/yyyy)**
Permits	regional permits complete	various 2006 **(mm/dd/yyyy)**
Construction Drawings		**(mm/dd/yyyy)**
Funding		**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

All permits have been secured, or have enough of a history that the project permitting would not be extensive. The project is focusing on the overall area and tributaries, as well as secondary cutting and management

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues?
☐ Yes ☐ No X Not Sure
Is the project located within or adjacent to a disadvantaged community?
☐ Yes ☐ No X Not Sure
Does the project include disadvantaged community participation?
☐ Yes ☐ No X Not Sure
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
X	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
X	Increases Water Use and/or Reuse Efficiency	
X	Provides Additional Water Supply	
X	Promotes Water Quality Protection	
X	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
X	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: fire management and reduction	
X	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
X	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	X	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	X	Enhances and Protects Upper Watershed Forests and Meadow Systems
	X	Other (Please State): preserves ponding water that is stickleback habitat
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
X	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
X	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
X	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): $1,000,000

Upper estimated total capital cost ($): $20,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): 0

Annual Operation and Maintenance Cost ($): 100,000

Design Life of Project (years): 15

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Santa Clarita Valley Sanitation District

Agency / Organization / Individual Address:

1955 Workman Mill Road
Whittier, CA 90601

Possible Partnering Agencies:

Name:*

Francisco Guerrero

Title:

Project Engineer

Telephone:* 562-908-4288 x 2832

Fax: 562-908-4293

Email:*

FGuerrero@lacsd.org

Website:

www.lacsd.org

Project Name:*

SCVSD Automatic Water Softener Rebate and Public Outreach Program

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34.41983951 **Project Longitude:** -118.54102332

Location Description:	Santa Clarita Valley Sanitation District Service Area

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- City of Santa Clarita
- County of Los Angeles
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New phase

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The Santa Clarita Valley Sanitation District (Sanitation District) operates two water reclamation plants (WRPs) in the Santa Clarita Valley, the Saugus and Valencia WRPs, along with more than thirty miles of Sanitation District's operated trunk lines and one pumping plant. The Saugus and Valencia WRPs discharge treated wastewater into the Upper Santa Clara River, which contain chloride in excess of the water quality objective for the upper Santa Clara River of 100 mg/L. ~~On December 11, 2008, t~~In 2002, the California Regional Water Quality Control Board, Los Angeles Region first adopted the Upper Santa Clara River Chloride Total Maximum Daily Load, which was subsequently revised most recently under ~~(~~Resolution No. R4-2008-012~~)~~ , requiring the Sanitation District to reduce chloride levels in the discharges from the WRPs.

The Sanitation District has conducted a ground breaking, nationally recognized source control program for chloride in the Santa Clarita Valley. Because automatic water softeners (AWS), also known as self-regenerating water softeners, have been the largest controllable source of chloride, the source control efforts have focused on the removal of these units. However, Sanitation District efforts to reduce chloride sources have also focused on the industrial sector, commercial sector, hauled waste, and treatment plant operations.

The Santa Clara River Chloride Reduction Ordinance of 2008 (Ordinance) was approved by voters and took effect on January 1, 2009. The Ordinance required the removal and disposal of all existing residential AWS by June 30, 2009. Over 7,800 AWS have been removed, but approximately 500 may still be discharging and several thousand may still be installed. The goal of the Enforcement Phase of the Automatic Water Softener Rebate and Public Outreach Program is to remove the remaining automatic water softeners in the Sanitation District's service

area, and thereby reduce the chloride load in the District's final effluent and recycled water at the Saugus and Valencia WRPs by up to 5 mg/L.~~The Sanitation District's Automatic Water Softener Rebate and Public Outreach Program, Enforcement Phase goal is to remove the remaining automatic water softeners in the community; and thereby, reducing the chloride load in the District's final effluent from the Saugus and Valencia WRPs by approximately 5 mg/L.~~ Reducing the chloride load in the Sanitation District's final effluent from the remaining automatic water softeners will minimize the size and operation of future chloride compliance facilities and help comply with the Upper Santa Clara River Chloride Total Maximum Daily Load.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Sanitation District's Automatic Water Softener Rebate and Public Outreach Program, Enforcement Phase will focus on removing the remaining automatic water softeners in the Santa Clarita Valley. The program will consist of home inspections, issuing Notices of Violations to residents that still have their automatic water softeners, issuing rebates to residents that remove their automatic water softeners, chloride monitoring, and public outreach. ~~This groundbreaking program will be the first time a Sanitation District in California has attempted to enforce a residential automatic water softener ban by conducting home inspections.~~

The Sanitation District has already sent letters to residents suspected of having automatic water softeners to inform them that the ordinance requires them to remove the units. The Sanitation District intends to launch a pilot scale home inspection program, begin public outreach and conduct additional chloride monitoring in the near future. The program has already been

approved by the Sanitation District's Board of Directors and is ready to proceed.

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If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River
• Santa Clara Eastern Groundwater Basin
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• 2011 Chloride Source Identification/Reduction, Pollution Prevention, and Public Outreach Plan, November 2011
• ~~Call, Notice, and~~ Agenda of the Special Meeting of the Board of Directors of Santa Clarita Valley Sanitation District, October 18, 2010
• Santa Clara River Chloride Reduction Ordinance of 2008~~———~~

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply: Understand future regional demands and obtain necessary water supply sources.	_____
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	The program will improve water quality by reducing the chloride loading into the Upper Santa Clara River from the Saugus and Valencia WRPs.
Promote Resource Stewardship: Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	_____
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	The program will reduce greenhouse gas emissions by minimizing the size of future chloride compliance facilities that would otherwise be required to remove chloride from the WRP discharges.

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☒ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	~~X~~☒ NA ~~☐ NA~~	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☒ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☐ Primary	☒ Secondary	☐ NA	Pollution Prevention (chloride)
☒ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☒ NA	Urban Runoff Management
☐ Primary	☐ Secondary	~~X~~☒ NA ~~☐ NA~~	Other (Please State) _____

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Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☒ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☒ NA	Watershed Management
☐ Primary	☐ Secondary	~~X~~ ☒ NA ~~☐ NA~~	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	~~X~~ ☒ NA ~~☐ NA~~	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☒ Yes ☐ No
If yes, please identify the program	Santa Clarita Valley Sanitation District Automatic Water Softener Rebate and Public Outreach Program

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/18/2010 **(mm/dd/yyyy)**
Feasibility Study	N/A	**(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Complete	10/18/2010 **(mm/dd/yyyy)**
CEQA/NEPA	N/A	**(mm/dd/yyyy)**
Permits	N/A	**(mm/dd/yyyy)**
Construction Drawings	N/A	**(mm/dd/yyyy)**
Funding	In Process	07/1/2011 **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

The District has sent letters to homeowners informing them of the program and is ready to proceed with home inspections, public outreach, and chloride monitoring. The project received approval to proceed from the District's Board of Directors on October 18, 2010. The Sanitation District will first conduct pilot work before finalizing approach for full enforcement program.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The Sanitation District's goal is to remove all remaining automatic water softeners in the Santa Clarita Valley Sanitation District service area. By removing these units, the Sanitation District expects to achieve a reduction in the chloride discharged from the Saugus and Valencia WRPs of approximately 5 mg/L. In addition, the publicity associated with this project is expected to prevent backsliding (residents installing and/or using illegal automatic water softeners) by keeping awareness of the chloride problem high in the community. Reducing the chloride load in the Sanitation District's WRP discharges to the river from the remaining automatic water softeners will also minimize the size of future chloride compliance facilities and help the Sanitation District comply with the Upper Santa Clara River Chloride Total Maximum Daily Load.

Does the project address any known environmental justice issues?
☐ **Yes** ☒ **No** ☐ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☒ **No** ☐ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☒ **No** ☐ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
☐	Increases Water Supply Reliability
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
☐	Increases Water Use and/or Reuse Efficiency
☐	Provides Additional Water Supply
☒	Promotes Water Quality Protection
☐	Reduces Water Demand
☐	Advances/Expands Water Recycling
☐	Promotes Urban Runoff Reuse
☐	Addresses Sea Level Rise
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)
☐	Promotes Habitat Protection
	☐ Establishes Migration Corridors
	☐ Re-establishes River-Floodplain Hydrologic Continuity
	☐ Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐ Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐ Other (Please State):
☐	Other (Please State):_____
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
☐	Improves Water System Energy Efficiency
☐	Advances/Expands Water Recycling
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
☐	Promotes Use of Renewable Energy Sources
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)
☒	Other (Please State): Reduces energy consumption needed for future chloride compliance facilities

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 0

Upper estimated total capital cost ($): 0

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): 0

Annual Operation and Maintenance Cost ($): $1.1 million

Design Life of Project (years): 3 years

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Newhall County Water District

Agency / Organization / Individual Address:

Newhall County Water District / 23780 North Pine Street, Newhall, CA 91321

Possible Partnering Agencies:

Name:*

Steve Cole

Title:

General Manager

Telephone:* 661-259-3610

Fax: 661-259-9673

Email:*

scole@ncwd.org

Website:

www.ncwd.org

Project Name:*

Pellet Water Softening Treatment Plant —Phase 1

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°23.584 **Project Longitude:** 118°32.285

Location Description:	Existing Newhall Well 12/ Disinfection Facility Site 25143 Railroad Ave, Santa Clarita, CA 91321

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Newhall County Water District (NCWD) provides a blend of local groundwater from the Saugus Formation and imported State water through a Castaic Water Agency (CLWA) turnout (N-3) to the Newhall System. Local groundwater, especially from the Saugus Formation, is high in calcium and magnesium which results in high hardness. Total hardness has ranged from a low of 285 mg/L as CaCO3 to a high of 400 mg/L as CaCO3 from NCWD's two Saugus wells over the last 7 years. Hard water can cause several problems for customers including; spots on glasses, dishes, windows, etc., shortens the life of appliances such as, hot water heaters, dishwashers, etc., dry skin, and increased use of soaps and detergents. As a result, customers have sought to alleviate some of these problems by installing point-of-use (POU) water softeners. POU treatment devices result in an increased cost to consumers. In addition, self-regenerating water softeners produce a high chloride, brine discharge to the wastewater system and is a primary cause of treated wastewater discharged to the Santa Clara River exceeding the impending discharge limitation for chloride of 100 mg/L.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The main objective of the Pellet Softening project is to improve drinking water quality by removing calcium. This intern will reduce the consumer need for point-of-use water softeners and help reduce the amount of chloride discharged to the local Water Reclaimation Plants. This would serve as Phase 1 of a 3 phase project. Phase 1 would focus on the feasibility, conceptual design, and cost estimates for the construction and operation of a Pellet Softening Treatment Facility for two (2) Saugus Wells for the NCWD- Newhall service area. A feasibility report would be prepared along with conceptual layout, and estimates for design, construction, operation and maintenance.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- Saugus Formation
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Well Softening Feasibility Study for Valencia Water Company - by Kennedy/Jenks Consultants, Engineers, and Scientists
- Optimal Operation of the Pellet Softening Process - by Rietveld, L.C., Van Schagen, K.M., Kramer, O.J.I., Delft University of Technology, The Netherlands
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____ Hard water contributes to the inefficiency of household appliances, increases the need for additional soaps and detergents, and contributes to the increased use of point-of-use treatment devices, all of which increase water use.
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	_____
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	_____ The project would improve drinking water quality by reduce the amount of calcium hardness. In addition, the project would reduce the need for POU water softeners and result in a reduction in the chloride concentration discharged to the sewer.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	_____ By eliminating the need for self-regenerating water softeners, this project would reduce chloride loading by eliminating the need for the remaining outlawed units.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	_____ Currently, many customers who soften their water do so through canisters that are exchanged on a regular basis. By centralizing the water softening location, it eliminates the need for customers point-of-use softening canisters. This, in turn, would eliminate routine delivery truck stops at customers homes, ultimately reducing GHG emissions in the area.

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	☒ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☐ NA	System Reoperation
☐ Primary	☐ Secondary	☐ NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☐ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☐ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☒Primary	☐Secondary	☐ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☐ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☒ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☒ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☒ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Not initiated	_____ **(mm/dd/yyyy)**
Feasibility Study	Not initiated	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	_____ **(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	_____ **(mm/dd/yyyy)**
Permits	Not initiated	_____ **(mm/dd/yyyy)**
Construction Drawings	Not initiated	_____ **(mm/dd/yyyy)**
Funding	Not initiated	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

NCWD has staff with experience with the design, construction, and operation of a full-scale pellet softening treatment facility. In addition, resources are available to aid in the feasibility study, conceptual design, and cost estimates. NCWD will utilize staff resources and consultant expertise to assist with Phase 1.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The project will provide consumers with improved water quality. The project will also reduce the need for POU water treatment devices resulting in a reduction in chloride discharged in to the sewer.

Does the project address any known environmental justice issues?

☐ **Yes** ☒ **No** ☐ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?

☐ **Yes** ☒ **No** ☐ **Not Sure**

Does the project include disadvantaged community participation?

☐ **Yes** ☒ **No** ☐ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 250,000

Upper estimated total capital cost ($): 500,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): NA

Annual Operation and Maintenance Cost ($): NA

Design Life of Project (years): NA

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Agriculture Access / Bouquet Canyon Network

Agency / Organization / Individual Address:

PO BOX 802622, Santa Clarita, Ca. 91380

Possible Partnering Agencies:

There four main partnering agencies involve in the Bouquet Canyon Creek Restoration. Project: 1. The *Antelope Valley Resource Conservation District*, which initially served as the administrator to our grant funds, 2. The *Natural Resources Conservation Service* which helped in GPS/GIS mapping of the invasive weed sites, 3. *Los Angeles County*, whose property lies within the project boundary and contains a large density of invasive weeds, 4. *Angeles National Forest*, whose property lies above the project boundary and contains quantities of invasive weeds.

Other contributors to the project are: 1. The *Bouquet Canyon Network*, a core group of twenty private landowners who reside within the project boundary, 2. The private biological consulting company *Cooper Ecological Monitoring / Leathermann BioConsulting, Inc*. who are responsible for protecting native plants and wildlife during project implementation, 3. *California Department of Fish & Game,* who have issue the project a Stream Alteration Agreement for a five year period.

Name:*

Roger A. Haring

Title:

Project Coordinator / CCA / QAL

Telephone:* 805-641-3781

Fax:

Email:*

rah@agricultureaccess.com

Website:

N/A

Project Name:*

Bouquet Canyon Creek Restoration: Control of Invasive Weeds

Project Latitude: N34 29.813’ **Project Longitude:** W118 27.442’

Location Description:	The project site is located within an unincorporated region of Los Angeles County, between northeast city limits of Santa Clarita (1,400' a.s.l) and southwest boundary of the Angeles National Forest (1,600' a.s.l) Geographically the project lies within the Mint Canyon Quadrangle of the USGS 7.5-minute topographical map.

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Natural Resources Conservation District (NRCS)
- Antelope Valley Resource Conservation District (AVRCD)
- LACo FIRE – Forestry Unit of Bouquet Canyon
- Bouquet Canyon Network (BCN)

Project Status (e.g., new, ongoing, expansion, new phase):

First Season of Implementation (2011-12) of Five Seasons (ending 2016).

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The Bouquet Canyon Creek is a small tributary to the upper Santa Clara River Watershed. While most of this natural watershed is located within the Angeles National Forest (>7.0 miles), a 3.5 mile portion of the creek interfaces a contiguous group of private and county properties. Based on topographical map studies, most of the riparian region in lower portion of Bouquet Canyon Creek is designated a 500-year floodplain; as such, the management of the region is left in a natural state. However, recent natural disasters within the region; fires (2007) and flooding (2005), have significantly damaged the native ecology and has caused the contracted 5-cfs discharge from the Bouquet Canyon Reservoir to be diminished. Seasonal watershed capture through the private and county properties have been significantly reduced; thereby reducing the health of the native ecology, the recharge of wells, and loss of biodiversity due to changes in the native habitat toward invasive weed species.

The dilemma encountered while attempting to implement a watershed project of this nature is how to accomplish the project in the face of an already flood and fire damaged ecology, confounding private property rights, and increased environmental pollution. Additional hindrances arise when environmental permits and regulation consume time and money, private property access is denied, and/or extreme climate events disturb the ecology. The main concern is how to cope with sudden environmental changes; such as flash flooding, outbreaks of fires, or high winds that can rapidly degrade a recovering native ecology.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

The Bouquet Canyon Creek Restoration project hopes to achieve three main goals: First, the reduction and control of invasive weeds (*Arundo donax, Nicotiana glauca*) which are known to significantly damage the ecology and private properties of the region. Second, to improve the watershed of Bouquet Canyon creek by revegetating with native plant species found within the ecology. And third, to educate the private property owners on the value of Bouquet Canyon watershed for both the anthropomorphic and ecological habitats it supports.

To accomplish the first goal, all above-ground biomass of *Arundo donax and Nicotiana glauca* will be physically removed by weed abatement crews. The use of an Integrate Pest Management (IPM) protocol will then target the rhizome of the weed sites in order to suppress any regrowth. This protocol includes: a) Application of a stream compatible herbicide (Glyphosate), b) Application of 500K BTU Weed Flamer, or c) Application of Opaque Tarps. The combination of biomass removal and IPM protocol may require multiple seasons to completely suppress, but once implement it will considerably enhance watershed within the riparian habitat.

To accomplish the second goal, the revegetation of various sections of the creek will take place over a series of winter seasons in order to help accelerate native plant habitat return. The three main species to used in rehabilitation of the riparian region, include: a) Mulefat (*Baccharis salicifolia*), b) Sage (*Artemesia californica*), c) Oak/Sycamore (*Quercus agrifolia / Platanus racemosa*). These species are selected for being endemic to the local habitat, providing multi-level canopy cover over the riparian region, and give the best opportunity for long-term recovery.

To accomplish the third goal, community outreach will take place in order to provide private property owners knowledge on the responsibilities of stewardship for riparian habitats. The education of private property owners will occur on a biannual basis to all those participating in the project. Various components of program will allow private and region technicians (LA County Fire, NRCS, CCC) to provide resources, advice, and activities to help inform landowners of ways to improve their individual riparian habitats.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Bouquet Canyon Reservoir
- Bouquet Canyon Creek Watershed
- Santa Clara River Watershed
-

Please identify up to three available documents which contain information specific to the proposed project:

- Bouquet Canyon Creek Site Specific Restoration Plan (AVRCD)
- Santa Clara River Arundo and Tamarisk Removal Plan (SCARP)
- Santa Clara River Watershed Invasive Plant Treatment Project

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	This project increases water supply by removing invasive weed populations (*Arundo donax*) that have the potential to significantly reduce surface and ground water that support private, county, and agricultural properties.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	This project reduces salt accumulation by removing invasive weed populations (*Arundo donax*) that can impede water flow, concentrate salts, and reduces salt dilution due to lower amounts of water volume.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	This project increases private property knowledge of the riparian habitat, the watershed mechanism, the protection of native plants and wildlife, and the overall health of the ecology. Reduces fuel, which reduces potential fire hazard.
Flooding/Hydromodification	This project reduces flooding by removing bottle-necks in the riparian habitat, and decreases streambank erosion.
Climate Change Adaptation	This project anticipates climate adaptation by implementing a practical mechanism to restore a habitat that may become damaged to fire or flooding events.
Climate Change Prevention	This project increases biodiversity by enhancing native plant populations within a riparian region that is prone to habitat loss due to invasive weeds, anthropomorphic intervention, and natural disasters.

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☐ NA	System Reoperation
☐ Primary	☐ Secondary	☐ NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
√☐ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☐ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☐ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
√☐ Primary	☐ Secondary	☐ NA	Other (Please State): Availability of surface water for both private and county properties.
Improve Water Quality			
☐Primary	☐Secondary	☐ NA	Drinking Water Treatment and Distribution
√☐ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☐ NA	Matching Quality to Use
☐ Primary	☐ Secondary	☐ NA	Pollution Prevention
√☐ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☐ NA	Urban Runoff Management
√☐ Primary	☐ Secondary	☐ NA	Other: *Increase Flow Rates that flush salts downstream*

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
√☐ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
√☐ Primary	☐ Secondary	☐ NA	Forest Management
√☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
√☐ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
√☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
√☐ Primary	☐ Secondary	☐ NA	Please State: Mitigate Fires Hazards / Fuel Reduction

Is the proposed project an element or phase of a regional or larger program?	√☐ Yes ☐ No
If yes, please identify the program: Santa Clara River Watershed Invasive Plant Treatment Project. Santa Clara River Invasive Weed Task Force	

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Completed	January 2005
Feasibility Study	N/A	N/A
Preliminary Design and Cost Estimates	Completed	October 2009 -10
CEQA Negative Declaration # **: 2011098367**	Completed	August 2011
Permits (DFG / USFWS) Streambed Alteration Agreement # **: 1600-2011-0063-R5-Revision 1** No-Take Concurrence Request: **May 27, 2011**	Completed	June 2011
GIS Mapping NRCS Landowner Conservation Plans	Completed	November 2011
Funding LA Weed Management Area / Wetland Recovery Program	In Process	August 2011

For projects that do not include construction, please briefly describe the project readiness-to proceed.

This project has accomplished planning, permits, and grant funding between 2009-2011. The project has initiated implementation of weed management and Integrated Pest Management (IPM), and revegetation in Fall 2011. The first three seasons of implementation (2011-13) will entail invasive weed management for a 3.5 mile stretch of riparian habitat. The fourth and fifth seasons (2014-16) will entail restoration of the riparian habitat on private and county properties.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This five year restoration project has initiated implementation in 2011 with the goal to control the major invasive weed species infiltrating the riparian habitat, and thereby help restore a healthy watershed within Bouquet Canyon Creek.

There are three main benefits to the local environment will be achieved by this project: The first main benefit is a long-term strategy for quickly revegetating, restoring, and mitigating damage to native plant ecologies. This is particularly critical for narrow canyon topographies that are prone to environmental damage from inclimatic events (fire, flooding, wind, storms). The second main benefit is the development of a new methodology for canyon environments that must contend with mid-sized environmental disasters caused by climate change. Often local communities or neighborhoods are unable to gain access to improving their local environments because of stringent regulations, high fees associated with permits, and the lack of capacity to perform such emergency type work. This project helps streamline activities for implementing local restoration by drawing from the collective effort of private property owners and neighboring county properties. Finally, the propagation and development of local native plant seedling stocks, and having them available in quantities that can be quickly mitigate loss of vegetation after critical periods of a natural disaster. By having adequate amount of living-keystone native species ready, timely environmental recovery after natural disasters will be possible. Native watersheds will be maintained and protect for future generations.

There are also regional benefits that this project will achieve. The Bouquet Canyon Creek Restoration project is complementary to a long-term, larger invasive weed control and restoration project that is taking place in the upper watershed of the Angeles National Forest (ANF). The boundary of the Angeles National Forest (Santa Clara / Mojave Rivers Ranger District) is just north of the proposed Bouquet Canyon Creek Restoration project; and comprises of approximately 7.5 miles of riparian habitat. The objective of the ANF project is "…eradicate, control, containment, and /or suppression of existing and new infestations of invasive and non-native plant species that are undesirable, noxious, harmful, injurious, or poisonous in the Santa Clara Watershed." This regional project is termed to be completed in fifteen years. Hence, it is in the best interest of private, county, state, and federal properties to collaborate at this moment in time in the effort to remove invasive weeds from the watershed before major colonization occurs; thereby preventing native habitat degradation, and provide the best opportunity for the watershed to be restored.

Does the project address any known environmental justice issues?

☐ **Yes** ☐ **No** ☑ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?

☑ **Yes** ☐ **No** ☐ **Not Sure**

Does the project include disadvantaged community participation?

☑ **Yes** ☐ **No** ☐ **Not Sure**

If yes, please identify the group or organization: LARC RANCH

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change	
☑	Increases Water Supply Reliability
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources
☐	Increases Water Use and/or Reuse Efficiency
☑	Provides Additional Water Supply
☑	Promotes Water Quality Protection
☐	Reduces Water Demand
☐	Advances/Expands Water Recycling
☐	Promotes Urban Runoff Reuse
☐	Addresses Sea Level Rise
☑	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: Development of Native Plant Seedling Stock for Revegetation
☑	Improves Flood Control (e.g. through wetlands restoration, management, protection)
☑	Promotes Habitat Protection
☑	Establishes Migration Corridors
☑	Re-establishes River-Floodplain Hydrologic Continuity
☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
☑	Enhances and Protects Upper Watershed Forests and Meadow Systems
☐	Other (Please State):
☑	Other (Please State): Creek provides natural evaporative cooling
Reduces Greenhouse Gas Emissions and/or Energy Consumption	
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency
☐	Improves Water System Energy Efficiency
☐	Advances/Expands Water Recycling
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand
☐	Promotes Use of Renewable Energy Sources
☑	Contributes to Carbon Sequestration (e.g. through vegetation growth)
☑	Other (Please State): Enhances Evaporative Cooling of Valley

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 20, 240.00
Upper estimated total capital cost ($): 52,852.49
Annual Operation and Maintenance Cost (Administration/Project Coordination) ($): 13,052.20
Design Life of Project: 5 years

Budget Narrative: The capital investment for this project entails supporting two areas with awarded funds. The first portion of IRWMP Funds ($26,104.00) will be used in supporting the 2012-13 season in order to continue implementation of the Bouquet Canyon Creek Restoration Project invasive weed management. The second portion of IRWMP Funds ($26,104.00) will then be used in the 2013-14 season for accelerating the restoration of the riparian habitat, and this is the main goal of the project.

Since one of the main goals of the project is to control major invasive weed sites existing within a 3.5 mile stretch of riparian region. This first phase of the project has required a series of tasks aimed to removing biomass of non-native vegetation already established within the riparian region of the project area. The 2011-12 season initiated abatement of over twenty private and two county properties within the Bouquet Canyon tributary, and is now preparing to implement an integrated pest management program for the rootzone of those invasive weed sites.

The objective in restoring the riparian habitat of the project area entails a two-fold approach: First, educating the private and county property owners how to invest in proper native plant restoration techniques that can improve the watershed and sustain native wildlife within the region. As with any group of private landowners whose property interfaces natural resources, there is a need to share, educate, and help steward individuals on the native resources that exist in the region. It becomes a difficult process to collectively organize and coordinate a diverse group of rural landowners because each has individual property rights and management styles. It is the goal of this restoration process that a 'sense of ecological community' will develop within the region. To help instill this sense of responsibility to an'ecological habitat' there will be out-reach and education to the community on a biannual basis to all private property owners participating in the project. The educational component will comprise regional technicians (LA County Fire, NRCS, AVRCD) in order to provide advice, technical skill, and opportunities for private property owners to come together, meet, and discuss local natural resource needs.

Secondly, implementation and use of a new plant palette and restoration protocol. This new plant palette consists of propagating three complementary species of native plants: Mulefat (Baccharis sp.), Sage (Artemesia sp.), and Oak (Quercus sp.) in manner that when planted together will be complementary to each other; helping them to quickly establish and grow. This new plant palette will be created and packaged in the form of what is termed: Native Plant Seedling Mixtures (NPSM). The NPSM technology comprises of a group of complementary native plants that mimic the natural ecosystem, and thus allows them to quickly form an ecological niche within the landscape. The advantage of the NPSM technology is that when a region has become degraded or disturbed by fire, flooding, non-native plants, or pollutants it will be more likely to return to a native ecology if planted with species that support the growth of one another. Equally, the competitive advantage of these complementary species is they provide suppression of growth from other non-native species through a physiological mechanism called allelopathy.

Table 1: Overview of projected use of IRWMP Grant Funds for (2012-14).

Project Task	WRP Funds 2011-2012	IRWMP Funds (2 yrs.)	Grand Total
Map & Biological Monitoring	$2,700.00	$12,000.00	$14,700.00
Remove & Dispose	$8,300.00	$12,000.00	$20,300.00
Prevent Reemergence	$ 800.00	$5,292.00	$6,092.00
Restore,Revegetate,Educate	$5,600.00	$6,000.00	$11,600.00
Fuel	$1,000.00	$2,000.00	$3,000.00
Grant Administration (10%)	$1,840.00	$3,729.20	$5,569.20
Project Coordinator (25%)	N/A	$9,323.00	$9,323.00
Overhead Costs (5%)	N/A	$1,864.60	$1,864.60
Total:	$20,240.00	$52,208.80	$72,448.80

Project Task Budgets

Map & Biological Monitoring: The proposed work of monitoring the Bouquet Canyon Creek Restoration Project will be required as part of the CDFG Streambed Alteration Agreement (Notification #:1600-2011-0063-R5 Revision I), as outlined in sections 2.2, 2.3, 2.4, and 2.5. The four areas of monitoring include: I. Single Pre-Project Survey that will be conducted no earlier than 1-week prior to the start of work, regardless of season, to detect any general sensitive species within the project area. II. Biological Monitoring that will be conducted on the first day of work to advise the work crew about avoidance of sensitive species, and/or to re-locate any vertebrates observed in the work area. III. Presence / Absence Survey that will be conducted a single time, 3-5 days prior to project activities within the project area during periods of aviary nesting season (3/1-9/31). This procedure entails ensuring that no active aviary nests are impacted by project work, and advises applicant of avoidance measures (100'-300' bufferzone around active nests.). IV.Follow-up Monitoring will be conducted during any 'short-term' project implementation or activities (i.e. quick reapplication of herbicide / handcutting, etc.) when performed during aviary nesting season.

Table 2: Mapping and Biological Monitoring Budget (2012-14)

Task	Rate	Mileage	Hours	Miles	Total Cost
Pre-Project Survey	$60-80/hr.	$0.55/mile	12	60	$993.00
Biological Monitoring	$60	$0.55/mile	120	1000	$7750.00
Presence / Absence Survey	$60	$0.55/mile	12	60	$993.00
Follow-up Monitoring	$60	$0.55/mile	36	90	$2209.5
Total:					$11,945.5

Removal & Disposal: The proposed work of invasive weed biomass reduction from the Bouquet Canyon Creek Restoration Project will be required as part of the CDFG Streambed Alteration Agreement (Notification #: 1600-2011-0063-R5 Revision I), outlined in sections: 2.14, 2.2, and 3.1 Three areas of abatement include: I. Staging of any equipment and/or materials must be located outside the streambed channel. II. Disposal of Non-Native Vegetation must be removed from stream and adjacent areas prior to those plants producing seed and placed into an area where it can not become re-established, enter the streambed channel, or impact sensitive plant resources, etc. Non-native vegetation should be mulched, chipped, hauled to landfill, or burned. III. Non-Native Vegetation Removal techniques must be defined that specifically control non-native vegetation, including subsequent follow-up treatments, and proper disposal methods.

Table 3: Removal and Disposal (2012-14)

Task	Rate	Units	Hours	Total
Staging Equipment (Chipper/Flatbed Truck/PPE)	$70-300/day	1 equip.	36	$210-900.00
Removal Methods (Hand-labor, Chainsaws)	$600.00/day	10-12 persons	495	$6000-7200.00
Disposal Methods	$ 30/Ton	<10 tons	24	$150-300.00
Extra Days of Removal (Hand-labor, Chainsaws)	$600.00	10-12 persons	247	$4,200.00
Total:				$12,600.00

Prevent Reemergence: The proposed work of controlling invasive weed with an integrated pest management approach in the Bouquet Canyon Creek Restoration Project will be required as part of the CDFG Streambed Alteration Agreement (Notification #:1600-2011-0063-R5 Revision I), as outlined in section: 2.13, and the Site Specific Restoration Plan. There is one area of compliance when implementing the prevention of reemergence for this project: I. Herbicide Applications must be applied in accordance with state and federal law. No herbicides shall be used within the bufferzone where special status species reside. No herbicide shall be sprayed when wind velocities are above five miles per hour. The use of integrated pest management protocols (i.e. PE tarpping, 500K BTU Weed Flamer, and/or CDA herbicide applications) should help suppress the continued development of the rootzone.

Table 4: Prevent Reemergence Budget (2012-14)

Task	Rate	# Personnel	Hours	Total Cost
Herbicide Application	$45/hr.	1-2	84	3780.00
IPM Application	$18/hr.	4-10	84	1512.00
Total:				$5,292.00

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Santa Clarita Water, a Division of Castaic Lake Water Agency (SCWD)

Agency / Organization / Individual Address:

26521 Summit Circle, Santa Clarita, CA 91350

Possible Partnering Agencies:

Castaic Lake Water Agency (CLWA)

Name:*

Cathy Z. Hollomon

Title:

Associate Water Resource Planner

Telephone:* (661) 259-2737

Fax: (661) 286-4330

Email:*

chollomon@scwater.org

Website:

www.scwater.org

Project Name:*

July 2012 Santa Clarita Water Division Water Use Efficiency Strategic Plan Water use efficiency Programs

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'47.47" **Project Longitude:** 118°30'33.32"

Location Description:	Service area of SCWD in the Santa Clarita Valley, the north section of Los Angeles County

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Castaic Lake Water Agency
- City of Santa Clarita
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

In SCWD's efforts to achieve SBX7-7 requirements, SCWD completed a Water Use Efficiency Strategic Plan (WUESP) in July 2012 that outlines the following action items as specified in their Executive Summary:

1. Develop a water use efficiency program that fulfills SCWD's requirements as a signatory to the MOU.

2. Promote programs that enable residential customers to improve water use efficiency in a cost-effective manner.

3. Promote programs that encourage Commercial/Industrial/Institutional (CII) water users to implement water efficiency improvement programs in a cost-effective manner.

4. Promote efficient use of water through appropriate incentive programs.

5. Provide appropriate educational and informational programs to encourage water use efficiency.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The SCWD WUESP specifies ten (10) water use efficiency programs that create incentives and develop outreach programs to encourage behavioral change in residential and non-residential customers to practice cost-effective water use efficiency. Those programs and measures deemed to be cost-effective will be selected for implementation by the purveyors:

1. Residential Audits
2. Low-Flow Showerhead Distribution
3. Ultra-High Efficiency Toilet (UHET) Distribution
4. Multi-Family/Institutional/High-Efficiency Toilet/UHET Direct Installation
5. Turf Removal
6. High Efficiency Nozzle Distribution (freesprinklernozzles.com)
7. High-Efficiency Nozzle Direct Installation
8. Large Landscape Weather-Based Irrigation Controller Direct Installation
9. Residential and Commercial Rebate Program
10. Large Landscape Water Budgets

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- Eastern Santa Clara Basin – Santa Clara – Mint Canyon
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clarita Water Division Water Use Efficiency Strategic Plan, July 10, 2012
- Urban Water Management Plan, 2010
- Santa Clarita Valley Water Use Efficiency Strategic Plan, 2007

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	The SCWD WUESP has various incentive and outreach/education programs that install water-efficient hardware and change future customer water use behaviors.
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	As water use is reduced, we become less reliant on imported supplies from the State Water Project and on water supplies banked overtime.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	The use of more efficient irrigation can result in reduced urban runoff.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The programs seek to reduce urban runoff and potential pollutant
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	Reduced dependence on imported State Water reduces the use of pumps and equipment to transport the imported water to the Santa Clarita Valley.

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☒ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☒ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☒ Secondary	☐ NA	Water Transfers
☐ Primary	☒ Secondary	☐ NA	Other (Please State):Reduction in Power Use and Labor to Maintain Water System
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☒ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☐ Primary	☒ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☐ Primary	☒ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☒ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☒ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☒ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☒ Yes ☐ No
If yes, please identify the program	The SCWD 2012 WUESP sites the following reports as its major contributors: the 2007 Santa Clarita Valley Water Use Efficiency Plan and the 2010 Urban Water Management Plan.

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	06/30/2012 **(mm/dd/yyyy)**
Feasibility Study	NA	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Complete	06/30/2012 **(mm/dd/yyyy)**
CEQA/NEPA	NA	_____ **(mm/dd/yyyy)**
Permits	NA	_____ **(mm/dd/yyyy)**
Construction Drawings	NA	_____ **(mm/dd/yyyy)**
Funding	Ongoing	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Currently, we are operating three of our ten WUE Programs in the WUESP as follows:

- Low Flow Showerhead Distribution
- High Efficiency Nozzle Distribution (freesprinklernozzles.com)
- Residential and Commercial Rebate Program

With additional funding, we would like to operate the following proposed projects:

1. Residential Audits
2. Ultra-High Efficiency Toilet (UHET) Distribution
3. Multi-Family/Institutional/High-Efficiency Toilet/UHET Direct Installation
4. Turf Removal
5. High-Efficiency Nozzle Direct Installation
6. Large Landscape Weather-Based Irrigation Controller Direct Installation
7. Large Landscape Water Budgets

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The SCWD WUESP indicates water savings that vary with each proposed program.

Primary Benefits:

- Improve Urban Water Use Efficiency
- Increase Water Supply
- Practice Resource Stewardship by providing incentives and encourage behavioral change in cost-effective water use efficiency
- Improve Watershed Management

Secondary Benefits:

- Limit use of imported state water and limiting the energy and resources to convey water from the Delta to the Santa Clarita Valley
- Prevent urban runoff by using more efficient landscape irrigation systems, which limits pollution transport due to runoff

Does the project address any known environmental justice issues?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?

☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☒	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☒	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☒	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☒	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: **Decrease energy and resources required to transport imported State Water to the Santa Clarita Valley by limiting amount of this water supply by the Valley.**	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☒	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): $301,930

Upper estimated total capital cost ($): $2,520,469

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): $0

Annual Operation and Maintenance Cost ($): From $62,370 to $366,223

Design Life of Project (years): 8

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Santa Clarita Valley Sanitation District (SCVSD)

Agency / Organization / Individual Address:

1955 Workman Mill Rod

Possible Partnering Agencies:

Name:*

Francisco Guerrero

Title:

Project Engineer

Telephone:* 562-908-4288 ext 2832

Fax:

Email:*

FGuerrero@lacsd.org

Website:

www.lacsd.org

Project Name:*

Saugus Water Reclamation Plant – Ultraviolet Light Disinfection Facility

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'47" **Project Longitude:** 118°35'27"

Location Description:	The project is located within the Saugus Water Reclamation Plant (WRP) site at 26200 Springbrook Avenue, Saugus, CA 91350

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Castaic Lake Water Agency
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Treatment upgrade

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The Santa Clara River supports aquatic species and habitat and recharges the underlying groundwater basin that serves as a water supply. The most recent Upper Santa Clara River Chloride Total Maximum Daily Load (Chloride TMDL) was established in 2008 and imposes a chloride limit of 100 milligrams per liter (mg/L) for the treated water discharged to the Santa Clara River from the Saugus WRP. The use of ultraviolet light (UV) disinfection at the Saugus WRP will reduce chloride loading associated with the existing chlorine based disinfection facilities at the WRP and help towards achieving compliance with the ~~Upper Santa Clara River~~ Chloride ~~Total Maximum Daily Load~~TMDL. In addition, the use of UV disinfection will reduce the potential for the formation of disinfection byproducts ~~(Trihalomethanes and N-Nitrosodimethylamine)~~ associated with chlorination disinfection processes. Utilization of UV disinfection will ensure recycled water from the Saugus WRP meets all Department of Public Health Title 22 Water Recycling Criteria.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Saugus W~~ater R~~eclamation P~~lant~~ UV Disinfection Facilityies ~~will~~ would reduce chloride loading from existing chlorine based disinfection, preserve and expand the use of recycled water in the USCR IRWMP Region, which is an important component of the Valley's water resources, and improve recycled water quality by reducing chloride levels and the potential to generate disinfection by-products. The project would replace the existing chlorination system at the Saugus WRP with a UV disinfection facility, which would~~will demonstrate the sequential use of free chlorine/UV disinfection as an alternative disinfection method to the current chlorine based disinfection process at the WRP.~~ be constructed within the boundaries of the Saugus WRP. The UV Disinfection Facility would include construction of UV reactors containing lamps and appurtenant electrical, mechanical, and control systems.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- Santa Clara Eastern Groundwater Basin – Alluvial Aquifer
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Draft Santa Clarita Valley Sanitation District Chloride Compliance Facilities Plan and Environmental Impact Report (Tentatively Available late 2012)
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	Utilization of UV dDisinfection will ensure recycled water produced at the Saugus WRP meets all Department of Public Health Title 22 Water Recycling Criteria, thus promoting the use of recycled water in the USCR IRWMP Region, which ~~in turn~~would reduce the Santa Clarita Valley's demand on groundwater and imported water resources.
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Utilization of UV dDisinfection will ensure recycled water produced at the Saugus WRP meets all Department of Public Health Title 22 Water Recycling Criteria, thus promoting the use of recycled water in the USCR IRWMP Region. Recycled water use directly increases local water supply, reducing demand on groundwater and imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Utilization of UV Disinfection will reduce chloride contribution from ~~treatment of~~ wastewater treatment and help comply with the ~~USCR c~~Chloride TMDL. Utilization of UV Disinfection will reduce the potential to form common disinfection byproducts associated with the use of chlorine based disinfection.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	Improve quality of water discharged to Santa Clara River, which would benefit river's ecosystems~~———~~
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	———
Take actions within the watershed to adapt to climate change	———
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☒ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☒ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☒ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA ~~☐ NA~~	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☒ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☒ Secondary	☐ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☒ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☒ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA ~~☐ NA~~	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☒ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☒ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☒ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☒ Yes ☐ No
If yes, please identify the program	Santa Clarita Valley Chloride Compliance Facilities Plan and EIR

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In Process	tbd **(mm/dd/yyyy)**
Feasibility Study	In Process	tbd **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	In Process	tbd **(mm/dd/yyyy)**
CEQA/NEPA	In Process	tbd **(mm/dd/yyyy)**
Permits	Not Initiated	_____ **(mm/dd/yyyy)**
Construction Drawings	Not Initiated	_____ **(mm/dd/yyyy)**
Funding	Approved for Planning and Design Not Initiated for Construction	June 2011 **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Conversion to UV disinfection from the chlorine based disinfection would reduce the chloride loading in the WRP's effluent and improve recycled water quality by reducing chloride levels and the potential to generate disinfection by-products. It is expected that the conversion to the UV disinfection would remove approximately 140,000 pounds of chloride annually.

Does the project address any known environmental justice issues?
☐ **Yes** ☒ **No** ☐ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☒ **No** ☐ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☒ **No** ☐ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☒	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☒	Reduces Water Demand	
☒	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☒	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☒	Other (Please State): Improved water quality to river ecosystems supported by that water
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☒	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($):$8,000,000 ~~tbd~~

Upper estimated total capital cost ($):14,000,000 ~~tbd~~

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): $0

Annual Operation and Maintenance Cost ($):$200,000 ~~tbd~~

Design Life of Project (years): 20 years~~tbd~~

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency (SCWD)

Agency / Organization / Individual Address:

27234 Bouquet Canyon Road, Santa Clarita, CA 91350

Possible Partnering Agencies:

Los Angeles County Waterworks District #36
Newhall County Water District
Santa Clarita Water Division
Valencia Water Company

Name:*

Stephanie Anagnoson

Title:

Water Conservation Program Coordinator

Telephone:* (661) 513-1231

Fax: (661) 297-1611

Email:*

sanagnoson@clwa.org

Website:

www.clwa.org

Project Name:*

Santa Clarita Valley (SCV) Water Use Efficiency (WUE) Strategic Plan (SP)

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: **Project Longitude:**

Location Description:	Santa Clarita Valley

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Waterworks #36
- Newhall County Water District
- Santa Clarita Water Division
- Valencia Water Company

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Before SBX7-7, the Family of Water Suppliers proactively adopted a plan to achieve 10% water demand by 2030. This is currently funded partially by IRWMP for approximately 1 million dollars over two years.

With the current state mandate of 20% water demand reduction by 2020, the Family of Water Suppliers needs to continue to fund programs within the Santa Clarita Valley Water Use Efficiency Plan and seek continued funding from IWMP.

The 2010 UWMP assumes almost 17,000 AF in savings by 2020 from conservation. While some of this conservation may be passive (from updates to plumbing code in new construction), considerable new programs and expanded current programs will need to be implemented toreach these goals.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not

be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Santa Clarita Valley Water Use Efficiency Strategic Plan was developed in 2008 and approved by the Castaic Lake Water Agency Board for implementation in 2009. The Programs are being implemented on an ongoing basis, including

High-Efficiency Toilet Rebates

High-Efficiency Washing Machine Rebates

Residential Landscape Program (Free Weather-Based Irrigation Controllers)

Large Landscape and Commercial, Industrial and Institutional Rebates

Social Marketing Campaign (Public Outreach)

The SCV WUE SP will be updated in 2012 and 2013 and may including additional programs to achieve 20% reduction in water demand by 2020.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
-
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Urban Water Management Plan, 2010
- Santa Clarita Valley Water Use Efficiency Strategic Plan, 2007

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	The primary goal of the SCV WUE SP is to reduce potable water demand by installing hardware for residential, commercial and landscape accounts as well as changing behavior to decrease water use.
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	With a decrease in potable water demand, we will be able to increase the amount of water available for banking (and increase the reliability of the water supply).
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Water quality will be increased by reduced run off.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	
Take actions within the watershed to adapt to climate change	
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☒ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☒ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☒ Secondary	☐ NA	Water Transfers
☐ Primary	☒ Secondary	☐ NA	Other (Please State):Reduction in Power Use to Treat Water
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☒ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☐ Primary	☒ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☐ Primary	☒ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☒ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☒ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☒ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☒ Yes ☐ No
If yes, please identify the program	The 2007 Santa Clarita Valley Water Use Efficiency Plan and the 2010 Urban Water Management Plan

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	08/30/2008 **(mm/dd/yyyy)**
Feasibility Study	NA	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Complete	08/30/2008 **(mm/dd/yyyy)**
CEQA/NEPA	N/A	N/A **(mm/dd/yyyy)**
Permits	N/A	N/A **(mm/dd/yyyy)**
Construction Drawings	N/A	N/A **(mm/dd/yyyy)**
Funding	Ongoing	N/A **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Currently, we are funding all five programs suggested by the SCV WUE SP:

High-Efficiency Toilet Rebates

High-Efficiency Washing Machine Rebates

Residential Landscape Program (Free Weather-Based Irrigation Controllers)

Large Landscape and Commercial, Industrial and Institutional Rebates

Social Marketing Campaign (Public Outreach)

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

The Santa Clarita Valley Water Use Efficiency Programs have the following benefits:

Primary Benefits:

- Increase Urban Water Use Efficiency
- Increase Water Supply Reliability

Secondary Benefits:

- Decrease reliance on imported state water and limit the energy and resources to convey water from the Delta to the Santa Clarita Valley
- Decrease urban runoff by using more efficient landscape irrigation systems

Does the project address any known environmental justice issues?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?

☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☒	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☒	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☒	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☒	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State: **Decrease energy and resources required to transport imported State Water to the Santa Clarita Valley by limiting amount of this water supply by the Valley.**	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☒	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): $1,000,000 per year

Upper estimated total capital cost ($): $5,000,000 per year

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): $0

Annual Operation and Maintenance Cost ($): N/A

Design Life of Project (years): 8

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

SCR South Fork Rubber Dam No. 1 and Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°23'29.15"N **Project Longitude:** 118°32'31.77"W

Location Description:	Santa Clara River South Fork, Newhall Avenue Bridge

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
- Integrated Regional Water Management Plan
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

An air-inflatable rubber dam will be installed utilizing the location of an existing drop structure in the Santa Clara River South Fork. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. The rubber dam will also divert the water into three proposed spreading basins which will then also percolate into the aquifers. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure allowing lower flows in the river to pass without obstruction.

Spreading basins could have habitat restoration along the levees, and that area could be preserved as an open space. Passive recreation would be possible at this location.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed at the rubber dam and from the spreading basins.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the rubber dam and spreading basins could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Complete	03/13/2012 **(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of bike paths along a large stretch of the river. These areas are adjacent to power line easements that may provide an opportunity for habitat restoration. Trash will be collected and removed from the spreading grounds.

The project will provide storage for 145 acre-feet of storm runoff and 430 acre-feet of water conservation benefit per average water year. It will benefit 4 acres of riparian habitat area, and 8 acres of non-developed open space area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 5,000,000.00

Upper estimated total capital cost ($): 9,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 50,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

27234 Bouquet Canyon Rd.
Santa Clarita, CA 91350

Possible Partnering Agencies:

Newhall County Water District, City of Santa Clarita, Los Angeles County Water District #36

Name:*

James Leserman

Title:

Senior Engineer

Telephone:* 661-297-1600 Ext. 245

Fax: 661-513-1202

Email:*

jleserman@clwa.org

Website:

Project Name:*

Foothill Feeder Connection

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'33"N **Project Longitude:** 118°32'46"W

Location Description:	

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

•
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The Foothill Feeder Connection Project will provide additional capacity to CLWA's water system allowing the Agency to more reliably meet consumers' demands.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and

readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Foothill Feeder conveys untreated surface water from the terminus of the State Water Project—Castaic Lake—to the Metropolitan Water District's Jensen Water Treatment Plant and to a connection to a raw water pipeline, which conveys water to CLWA's Rio Vista Water Treatment Plant (RVWTP). The current connection to CLWA's water system was made in 1996. It was intended to be temporary. It has a lower capacity—60 millions of gallons per day (MGD)—than the recently expanded RVWTP—66 MGD. So in order to utilize the full capacity the connection needs to be increased. A more permanent structure would also provide better reliability.

The project has already been designed. Bidding and Construction can proceed once funding becomes available. Construction will consist of installing and connecting valves, pipelines, and associated electrical hook-ups and controls.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Castaic Lake
-
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Rio Vista Treatment Plant Expansion EIR
- Foothill Feeder Turnout CLWA-01 Drawings and Specifications
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Would enable more water to be delivered into the CLWA system. Would improvement water delivery reliability.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	_____
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	_____
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☒ Primary	☐ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☐ NA	System Reoperation
☐ Primary	☐ Secondary	☐ NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☐ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☐ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☒ Secondary	☐ NA	Other (Please State):Increase water supply reliability
Improve Water Quality			
☐Primary	☒Secondary	☐ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☐ NA	Matching Quality to Use
☐ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☒ Yes ☐ No
If yes, please identify the program	Rio Vista Water Treatment Plant Expansion

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	2007 **(mm/dd/yyyy)**
Feasibility Study	Complete	2006 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Complete	2011 **(mm/dd/yyyy)**
CEQA/NEPA	Complete	2005 **(mm/dd/yyyy)**
Permits	In Process	_____ **(mm/dd/yyyy)**
Construction Drawings	Complete	June 2012 **(mm/dd/yyyy)**
Funding	In Process	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Project would allow for an increase of 6 MGD (6,700 acre-feet per year) of water delivery immediately. It would be necessary for any future expansions of the RVWTP.

Does the project address any known environmental justice issues?
☐ **Yes** ☒ **No** ☐ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☒ **No** ☐ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☒ **No** ☐ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☒	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 3,000,000

Upper estimated total capital cost ($): 5,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): <$10,000

Annual Operation and Maintenance Cost ($): $50,000

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

City of Santa Clarita

Agency / Organization / Individual Address:

23920 Valencia Blvd
Santa Clarita CA 91355

Possible Partnering Agencies:

Los Angeles County, CLWA

Name:*

Heather Merenda

Title:

Telephone:* 661-284-1413

Fax: 661-255-4356

Email:*

hmerenda@santa-clarita.com

Website:

Project Name:*

Biofiltration and Low Impact Development Retrofits

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: **Project Longitude:**

Location Description:	City of Santa Clarita sub drainage areas determined to have high levels of bacteria, nutrients, trash and other pollutants in runoff and storm drain outfall

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

new

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The National Pollutant Discharge Elimination System (NPDES) Permit for the storm drain system in Los Angeles County is scheduled to be approved in October 2012. Draft versions of the permit require permittees create lists of opportunities to retrofit areas with biofiltration and/or low impact development. The permit will incorporate all Bacteria Total Maximum Daily Loads (TMDLs) in the watershed. It also has substantial requirements for trash management. The City needs to ensure that the storm drain urban runoff quality is working towards meeting the water quality standards in the TMDLs and the NPDES Permit itself.

The Bacteria TMDL for the Santa Clara River became effective in March 2012. It requires meeting dry weather bacteria waste loads by 2017 for all sources, including the storm drain system. There are also effective TMDLs for nutrients and chlorides. While several projects have installed permanent best management practices for treating oils and grease, trash and other traditional urban runoff pollutants, there is no current treatment for bacteria on the vast majority of storm drains.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will consist of three parts of green infrastructre: biofiltration, green streets, and parking lot low impact development retrofits. The project would evaluate and retrofit neighborhoods that have persistent problematic flow at the outfall. Anticipate that this would include 5 – 10 biolfiltration areas and up to 100 acres of parking lot retrofit. There would be a significant number of neighborhood streets that would have green streets retrofits. These elements may be used together in the same site or individually in different locations. This along with outdoor water use education to reduce over watering and other urban runoff behaviors will reduce the flows and improve water quality. The areas evaluated would be mature existing neighborhoods with consistent urban runoff problems

LID consists of building and landscape features designed to retain or filter storm water runoff. Biofiltration is a structural best management practice that reduces storm water pollutant discharges by intercepting rainfall on vegetative canopy, and through evapotranspiration, incidental infiltration, and filtration. As described in the Ventura County Technical Guidance Manual, studies have demonstrated that bioinfiltration of 1.5 times the storm water quality design volume (SWQDv) provides approximately equivalent or greater reductions in pollutant loading when compared to bioretention or infiltration of the SWQDv.50 Incidental infiltration is an important factor in achieving the required pollutant load reduction. Therefore, the term "biofiltration" as used in this Order is defined to include only systems designed to facilitate incidental infiltration. Biofiltration BMPs include bioretention systems with an underdrain and bioswales.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- various groundwater basins
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- EPA Green Infrastructure Case Studies
- EPA Managing Wet Weather with Green Infrastructure - Green Streets

- EPA Managing Wet Weather with Green Infrastructure – Green Infrastructure Retrofit Policies

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	Street landscaping would be supplemented with dry weather flows and wet weather rain flows related to urban runoff from streets
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Low impact development encourages infiltration into groundwater rather than runoff
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	These best management practices have been shows to reduce metals, bacteria and nutrient. These project would also deal with trash.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	Improved water quality in the river helps support habitat for endangered fish, birds, turtles and other species dependant on the Santa Clara River
Flooding/Hydromodification	Increased infiltration reduced peak flows
Climate Change Adaptation	Higher intensity storms peaks would be reduced
Climate Change Prevention	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	X NA	Agricultural Water Use Efficiency
X Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	X NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	X NA	System Reoperation
☐ Primary	☐ Secondary	X NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
X Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	X NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	X NA	Precipitation Enhancement
☐ Primary	☐ Secondary	X NA	Recycled Municipal Water
☐ Primary	☐ Secondary	X NA	Surface Storage – CALFED or Regional/Local
X Primary	☐ Secondary	☐ NA	Other (Please State): groundwater infiltration
Improve Water Quality			
☐Primary	X Secondary	☐ NA	Drinking Water Treatment and Distribution
☐ Primary	X Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	X NA	Matching Quality to Use
X Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	X Secondary	☐ NA	Salt and Salinity Management
X Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	X NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	X NA	Economic Incentives (loans, grants, water pricing)
X Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	X Secondary	☐ NA	Forest Management
X Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	X Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	X NA	Water-Dependent Recreation
X Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	X Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☐ No
If yes, please identify the program	NPDES Permit and TMDL compliance

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	not initiated	_____ **(mm/dd/yyyy)**
Feasibility Study	not initiated	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	not initiated	_____ **(mm/dd/yyyy)**
CEQA/NEPA	not initiated	_____ **(mm/dd/yyyy)**
Permits	not initiated	_____ **(mm/dd/yyyy)**
Construction Drawings	not initiated	_____ **(mm/dd/yyyy)**
Funding	not initiated	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Increase use of trees improve shade opportunities. The paving project reduce heat island effect.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** **X Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** **X Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** **X Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
X	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
X	Increases Water Use and/or Reuse Efficiency	
X	Provides Additional Water Supply	
X	Promotes Water Quality Protection	
X	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
X	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
X	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
X	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	X	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	X	Other (Please State): fish habitat improvement
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
X	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
X	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 4,000,000

Upper estimated total capital cost ($): 6,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): 0

Annual Operation and Maintenance Cost ($): 200,000

Design Life of Project (years): 15

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

City of Santa Clarita

Agency / Organization / Individual Address:

23920 Valencia Blvd
Santa Clarita CA 91355

Possible Partnering Agencies:

Name:*

Heather Merenda

Title:

Telephone:* 661-284-1413

Fax: 661-255-4356

Email:*

hmerenda@santa-clarita.com

Website:

Project Name:*

Septic to Sewer Retrofit Project

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: **Project Longitude:**

Location Description:	City of Santa Clarita sub drainage areas determined to have high levels of bacteria, nutrients, trash and other pollutants in runoff and storm drain outfall associated with neighborhoods with septic tanks

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

new

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The National Pollutant Discharge Elimination System (NPDES) Permit for the storm drain system in Los Angeles County is scheduled to be approved in October 2012. Draft versions of the permit require permittees create lists of opportunities to retrofit areas with biofiltration and/or low impact development. The permit will incorporate all Bacteria Total Maximum Daily Loads (TMDLs) in the watershed. It also has substantial requirements for trash management. The City needs to ensure that the storm drain urban runoff quality is working towards meeting the water quality standards in the TMDLs and the NPDES Permit itself.

The Bacteria TMDL for the Santa Clara River became effective in March 2012. It requires meeting dry weather bacteria waste loads by 2017 for all sources, including the storm drain system. There are also effective TMDLs for nutrients and chlorides. While several projects have installed permanent best management practices for treating oils and grease, trash and other traditional urban runoff pollutants, there is no current treatment for bacteria on the vast majority of storm drains.

Aging septic tanks, or septic tanks without sufficient leach field expansion, overflow and reach tributaries and the Santa Clara River. There are 1,000 to 2,500 septic tanks identified in the City limits. Not all can connect to the water reclamation plants, but some may be able to.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

There are 1,000 to 2,500 septic tanks properties within City limits. This project would provide financial incentives and infrastructure to connect these properties to the sewer. It would also help provide sewer line expansions to areas that are persistently contributing to bacteria, nutrient, or other kinds of pollution.

Financial incentive for disadvanted community members will be an important part of this effort, as well as other assistance measure for current septic tank owners. This project may include laterals, septic tank abandonment, extending sewer mains, and related efforts needed to support moving property owners from septic to sewer.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River
- various groundwater basins
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Bacteria TMDL
- Santa Clara River Bacteria TMDL Staff Report
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	By connecting to the sewage treatment infrastructure, the project will increase the amount of recycled water produced
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Removing septic tanks that are failing may improve water quality through elimination of sewage entering tributaries and the Santa Clara River
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	Reduce toxicity for fish species through reducing septic tank leaks to the habitat
Flooding/Hydromodification	_____
Climate Change Adaptation	_____
Climate Change Prevention	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	X NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	X NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	X NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	X NA	System Reoperation
☐ Primary	☐ Secondary	X NA	Water Transfers
☐ Primary	☐ Secondary	X NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	X NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	X NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	X NA	Precipitation Enhancement
X Primary	☐ Secondary	X NA	Recycled Municipal Water
☐ Primary	☐ Secondary	X NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	X Secondary	☐ NA	Drinking Water Treatment and Distribution
☐ Primary	X Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	X Secondary	☐ NA	Matching Quality to Use
☐ Primary	X Secondary	☐ NA	Pollution Prevention
☐ Primary	X Secondary	☐ NA	Salt and Salinity Management
☐ Primary	X Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	X NA	Agricultural Lands Stewardship
X Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
X Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	X NA	Forest Management
X Primary	☐ Secondary	☐ NA	Land Use Planning and Management
X Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	X NA	Water-Dependent Recreation
X Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	X NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	X NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	X Yes ☐ No
If yes, please identify the program	TMDL and NPDES Permit compliance

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	in process	12/1/2012 **(mm/dd/yyyy)**
Feasibility Study	not initiated	**(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	not initiated	**(mm/dd/yyyy)**
Permits	not initiated	**(mm/dd/yyyy)**
Construction Drawings	not initiated	**(mm/dd/yyyy)**
Funding	not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This project will provide financial assistance to disadvantaged communities. There will be a system in place for grants to assist those community members. Also, the disadvantaged community members are more likely to come into contact with the river water as they are more likely to recreate in the river.

Does the project address any known environmental justice issues?

☐ **Yes** ☐ **No** **X Not Sure**

Is the project located within or adjacent to a disadvantaged community?

X Yes ☐ **No** ☐ **Not Sure**

Does the project include disadvantaged community participation?

X Yes ☐ **No** ☐ **Not Sure**

If yes, please identify the group or organization: downtown Newhall

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
X	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
X	Provides Additional Water Supply	
X	Promotes Water Quality Protection	
☐	Reduces Water Demand	
X	Advances/Expands Water Recycling	
X	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
X	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	X	Other (Please State): improved fish habitat
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
X	Advances/Expands Water Recycling	
X	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 25,000,000

Upper estimated total capital cost ($): 35,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): unknown

Annual Operation and Maintenance Cost ($): unknown

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

Castaic Lake Water Agency

Possible Partnering Agencies:

Name:*

Brian Folsom

Title:

Engineering & Operations Manager

Telephone:* 661-297-1600

Fax: 661-513-1202

Email:*

bfolsom@clwa.org

Website:

www.clwa.org

Project Name:*

Castaic Conduit

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°26'27.79"N **Project Longitude:** 118°34'19.41"W

Location Description:	The new pipeline will start in Newhall Ranch Road, approximately 1,180 feet east of the Newhall Ranch Road and Copper Hill Drive intersection. The pipeline will travel east along Newhall Ranch Road, then turn southwest along Avenue Tibbits, then turn southeast along Avenue Mentry, then turn southeast along Avenue Rockefeller, then turn southeast along Avenue Scott, then cross under the San Francisquito Creek, continue along Avenue Scott and end at the intersection of Avenue Scott and McBean Parkway.

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

This will be a new construction project that is in the final design phase.

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Castaic Lake Water Agency's (CLWA) two existing treatment plants, the Earl Schmidt Filtration Plant and the Rio Vista Water Treatment Plant, are connected through a series of transmission mains. The majority of these transmission mains are 54 inches in diameter and larger. However, an approximately 7,565-foot portion of the existing transmission system, known as the Castaic Conduit Pipeline, is only 39 inches in diameter and reduces to 36 inches before connecting to another 54-inch pipeline. This portion of the pipeline has historically caused reduced water pressure in portions of the transmission main system. Construction of the proposed Castaic Conduit Bypass Pipeline (Project) would eliminate this constriction by bypassing narrower sections of the pipeline with a new 54-inch-diameter pipeline connecting the existing larger sections. The pipeline would remedy low water pressure issues with turnouts in the Project vicinity, but would not increase the amount of water delivered to the turnouts or to the service area as a whole.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project consists of the installation of approximately 7,960 linear feet of 54-inch diameter pipeline and appurtenances.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- The pipeline will cross under the San Francisquito Creek.
-
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Castaic Conduit Bypass Pipeline Project Preliminary Design Report
- Initial Study / Mitigated Negative Declaration
- Notice of Determination

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	The project will increase the water supply reliability by improving the operational efficiency of the system.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	_____
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	_____
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☒ Primary	☐ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☐ NA	System Reoperation
☐ Primary	☐ Secondary	☐ NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☐ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☐ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☒Secondary	☐ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☐ NA	Matching Quality to Use
☐ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	complete	August 2010 **(mm/dd/yyyy)**
Feasibility Study	_____	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Complete	August 2010 **(mm/dd/yyyy)**
CEQA/NEPA	Complete	March 9, 2011 **(mm/dd/yyyy)**
Permits	In process	Anticipate June 30, 2013 **(mm/dd/yyyy)**
Construction Drawings	In process	Anticipate June 30, 2013 **(mm/dd/yyyy)**
Funding	Design funded in FY 2012/13 budget	FY 2012/13 **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Is the project located within or adjacent to a disadvantaged community?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Does the project include disadvantaged community participation?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
If yes, please identify the group or organization: _____		

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): $14,910,000

Upper estimated total capital cost ($): $16,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): $250,000

Annual Operation and Maintenance Cost ($): $5,000

Design Life of Project (years): TBD

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

Castaic Lake Water Agency

Possible Partnering Agencies:

Name:*

Brian Folsom

Title:

Engineering & Operations Manager

Telephone:* 661-297-1600

Fax: 661-513-1202

Email:*

bfolsom@clwa.org

Website:

www.clwa.org

Project Name:*

Distribution System – RV-2 Modifications

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'34.91"N **Project Longitude:** 118°32'11.70"W

Location Description:	At the Agency's existing valve vault located in an enclosed site approximately 90 feet south of Newhall Ranch Road, and approximately 240 feet east of Bouquet Canyon Road. See above for the project's location coordinates.

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

This will be a new construction project that is in the final design phase.

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The project will improve the operational flexibility and system reliability of the Agency's transmission system by replacing the existing damaged Rio Vista Valve #2 with a new valve and the addition of a pressure regulating valve.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project consists of replacement of an existing 72-inch valve with a new valve; installation of a new pressure regulating valve; and modifications of the valve vault and surrounding site.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

-
-
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-

Please identify up to three available documents which contain information specific to the proposed project:

- Rio Vista Valve #2 Modifications Project Preliminary Design Report
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Project helps to increase water supply reliability by improving the system's operational efficiency.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	_____
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	_____
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☒ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☒ Secondary	☐ NA	System Reoperation
☐ Primary	☐ Secondary	☐ NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☐ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☐ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☒Secondary	☐ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☐ NA	Matching Quality to Use
☐ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	February 2011 **(mm/dd/yyyy)**
Feasibility Study	_____	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Complete	February 2011 **(mm/dd/yyyy)**
CEQA/NEPA	Complete	December 2010 **(mm/dd/yyyy)**
Permits	In process	Anticipate June 2013 **(mm/dd/yyyy)**
Construction Drawings	In process	Anticipate June 2013 **(mm/dd/yyyy)**
Funding	Design funded in FY 2012/13 budget	FY 2012/13 **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Is the project located within or adjacent to a disadvantaged community?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Does the project include disadvantaged community participation?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
If yes, please identify the group or organization: _____		

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): $2,880,000

Upper estimated total capital cost ($): $3,200,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): $50,000

Annual Operation and Maintenance Cost ($): $5,000

Design Life of Project (years): TBD

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

27234 Bouquet Canyon Rd.
Santa Clarita, CA 91350

Possible Partnering Agencies:

Name:*

James Leserman

Title:

Senior Engineer

Telephone:* 661-297-1600 Ext. 245

Fax: 661-513-1202

Email:*

jleserman@clwa.org

Website:

Project Name:*

West Saugus Formation Groundwater Resources Monitoring Project

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34° 25'N **Project Longitude:** 118° 33'W

Location Description:	All of the Santa Clarita Valley with particular emphasis on the east side of Railroad Avenue south of Bouquet Junction

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The primary objective of the project is to determine the horizontal and vertical extent of perchlorate migration in the Saugus Formation, a major source of drinking water in the Santa Clarita valley. The project will include a permanent, multi-level monitoring well and will provide geologic, hydraulic, and water quality data for an area downgradient of water supply wells that have been impacted by perchlorate. These wells are completed in the Saugus Formation, which is the deeper of two aquifers that are present in the Santa Clarita Valley. Currently, it is unknown whether perchlorate has migrated downgradient of the group of perchlorate-impacted Saugus Formation wells and to what extent, if any, that the downgradient wells might be threatened with future contamination. This uncertainty is of heightened concern to the water providers in the valley because of the importance of the Saugus Formation aquifer for providing drought-year firming supplies for urban areas in the Santa Clarita Valley. Consequently, conducting the proposed project to meet the data needs objectives specified above will also address and inform a larger CLWA objective of implementing its groundwater management plan and developing long-term solutions for managing the perchlorate plume that is present in the Saugus Formation.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The proposed project consists of planning, design, and construction of a deep, multi-level monitoring well. It includes borehole drilling, multi-level monitoring well installation, and groundwater monitoring at a location downgradient of areas of known perchlorate contamination in the Santa Clarita basin's deep aquifer system (the Saugus Formation). Specific activities to occur under the proposed project are:

- Project planning including well siting, agency coordination, design of the new monitoring well and selection of a qualified drilling contractor.
- Drilling and geologic and geophysical logging to identify hydrostratigraphic units at the drilling location.
- Installing a permanent, multi-level monitoring well that can be used to monitor for perchlorate presence and/or changes in perchlorate concentrations through time.

The primary goal of the project is to determine the horizontal and vertical extent of perchlorate migration in the Saugus Formation, a major source of drinking water in the Santa Clarita valley. The project will include a permanent, multi-level monitoring well and will provide geologic, hydraulic, and water quality data for an area downgradient of water supply wells that have been impacted by perchlorate. These wells are completed in the Saugus Formation, which is the deeper of two aquifers that are present in the Santa Clarita Valley. Currently, it is unknown whether perchlorate has migrated downgradient of the group of perchlorate-impacted Saugus Formation wells and to what extent, if any, that the downgradient wells might be threatened with future contamination. This uncertainty is of heightened concern to the water providers in the valley because of the importance of the Saugus Formation aquifer for providing drought-year firming supplies for urban areas in the Santa Clarita Valley. Additionally, this uncertainty has a bearing on current efforts to design a hydraulic containment system that has the objective of containing the perchlorate plume while restoring groundwater production (with wellhead treatment) at the impacted production wells. Consequently, conducting the proposed project to meet the data needs objectives specified above will also address and inform a larger CLWA objective of implementing its groundwater management plan and developing long-term solutions for managing the perchlorate plume that is present in the Saugus Formation. Specifically, conducting this project at a location west and northwest of VWC-201 and VWC-205 will inform groundwater modeling and other hydrogeologic and engineering analyses that are in progress by CLWA. These analyses are evaluating the likely ability of alternative pumping strategies to meet the CLWA's goals of creating a hydraulic containment zone in the Saugus Formation, protecting downgradient impacted wells, and (with wellhead treatment) restoring water supply production capacity at impacted Saugus Formation wells. In meeting this broader objective, the proposed project will further facilitate CLWA's ability to address concerns by state regulatory agencies with which it is working (the county Department of Public Health (DPH) and the Department of Toxic Substances Control (DTSC), which is reviewing and overseeing the ongoing voluntary cleanup activities in the area).

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Alluvial Aquifer
- Saugus Formation

Please identify up to three available documents which contain information specific to the proposed project:

- East Santa Clara Basin Groundwater Study
- Groundwater Quarterly Monitoring Reports, Operable Unit 7, Former Whittaker Bermite Facility
- 2003 CLWA Groundwater Management Plan

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	_____
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	The project would improve water quality by providing geologic, hydraulic, and water quality data necessary in order to assess the potential for groundwater contamination; and to develop long-term solutions for pollution prevention within the aquifers.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The projects characterization and solution of groundwater contamination problems would promote resource stewardship by preserving the groundwater quality for beneficial use in the basin and for beneficial use of surface water and groundwater discharges from the basin.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☐ NA	System Reoperation
☐ Primary	☐ Secondary	☐ NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☐ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☐ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☒Secondary	☐ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☐ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Not initiated	_____ **(mm/dd/yyyy)**
Feasibility Study	Not initiated	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Preliminary Cost Estimate Available	_____ **(mm/dd/yyyy)**
CEQA/NEPA	Exempt, Class 4 and Class 6	_____ **(mm/dd/yyyy)**
Permits	Will require a monitoring well permit with Los Angeles County Dept of Public Health	_____ **(mm/dd/yyyy)**
Construction Drawings	NA	_____ **(mm/dd/yyyy)**
Funding	Not initiated	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

A scope of work, proposal schedule, and cost estimate have been developed for the project and are available. This information was recently provided in the DWR Proposition 84 Local Groundwater Assistance grant application in March 2012.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Is the project located within or adjacent to a disadvantaged community?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Does the project include disadvantaged community participation?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
If yes, please identify the group or organization: _____		

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☒	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): _____

Upper estimated total capital cost ($): _____

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): _____

Design Life of Project (years): _____

DRAFT COST ESTIMATE

Budget Category	**Funding Match**	**Requested Grant Funding**	**Total**
Task 1. Well Siting and Agency Coordination	$10,810	$0	$10,810
Task 2.1 Specifications and Public Bid Package	$18,590	$0	$18,590
Task 2.2 Well Drilling, Construction, and Development	$202,315	$250,000	$452,315
Task 2.3 Initial Groundwater Monitoring	$20,650	$0	$20,650
Task 2.4 Reporting	$18,020	$0	$18,020
Task 2.5 Safety and Quality Assurance	$14,270	$0	$14,270
Task 2.6 Stakeholder Coordination and Communication	$12,020	$0	$12,020
Project Contingency (15%)	$82,000	$0	$82,000
Total	**$378,675**	**$250,000**	**$628,675**

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Newhall County Water District

Agency / Organization / Individual Address:

Newhall County Water District 23780 North Pine Street, Newhall, Ca 91321

Possible Partnering Agencies:

Name:*

Steve Cole

Title:

General Manager

Telephone:* (661) 259-3610

Fax: (661) 259-9673

Email:*

scole@ncwd.org

Website:

www.ncwd.org

Project Name:*

Santa Clara River-Sewer Trunk Line Relocation Phase II and III

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34.41 **Project Longitude:** 118.43

Location Description:	This project will take place in the Eastern Reach of the Upper Santa Clara River. The sewer trunk line being removed is in the Santa Clara River Bed near the Sand Canyon Bridge, and approximately one mile downstream

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

In Design

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

The Santa Clara River is dry most of the year. However, it is susceptible to flooding and high amounts of seasonal flows. Within the riverbed, Newhall County Water District (NCWD or District) maintains a portion of sewer trunk line in the Canyon Country area of Santa Clarita. When rainfall amounts are extremely large, the Santa Clara River swells and impacts the area occupied by the trunk line. The large River flow erodes the dirt around the sewer line and propels debris that could cause a line break. A line break would cause an unauthorized release of raw sewage in the Santa Clara River. Not only would a line break be detrimental to the ecosystems in and around the river, but also could affect domestic groundwater wells within the region. The project will meet the following objectives of the IRWMP: Improve Water Quality and Promote Resource Stewardship.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Within the riverbed, Newhall County Water District (NCWD) maintains a portion of a sewer trunk line in the Canyon Country area of Santa Clarita. NCWD has owned and operated this trunk line since the late 1960's and has previously combated sewer trunk line breakage by preventative maintenance and proactive responses. Nevertheless, the threat of an accidental release has become increasingly evident and relocation of the trunk line out of the riverbed is now a priority. A line break would be detrimental to the ecosystems in and around the river and also could affect domestic groundwater wells within the region.

The Sewer Trunk Line Removal Project is proposed in phases, with Phase 1 being the engineering and planning associated with relocating the sewer trunk line out of the Santa Clara riverbed. Phase 2 would concentrate on the actual removal or the gravity feed portion of the sewer trunk line. Within Phase 2, construction activities would relocate the sewer flow fed by gravity, prior to the proposed sewer lift station, into the public right-of-way. In Phase 3, the construction of a sewer lift station, forced sewer main, and the remaining gravity feed portion of the sewer trunk line to complete the relocation project. Funding is being requested for Phases 2 and 3.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Upper Santa Clara River
-
-
-

Please identify up to three available documents which contain information specific to the proposed project:

- Sand Canyon Sewer Relocation Report, Alliance Land Planning and Engineering. (November 2009)
- Upper Santa Clara River IRWMP, Implementation Grant Application, Round 1
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	During large storms, there is a possibility that large debris washed down the stream channel could hit the sewer line and cause a break. Such a break would cause release of raw sewage into the stream channel, requiring SCWD to stop pumping from their five groundwater wells located downstream. When there is a spill, it is assumed that groundwater pumping from SCWD's wells will need to be stopped for 2 months to allow for cleanup. During that time, lost groundwater pumping will be replaced by additional imported water brought to the region by CLWA.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	It is possible that this project could have an indirect positive impact to the underlying groundwater basin by increasing reliability of the resource by protecting the recharge area, and improving the water quality.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	Extensive patches of high-quality riparian habitat exist along the length of the Santa Clara River downstream of the project area. In addition, the river serves as an important wildlife corridor. Without the project, when a raw sewage spill occurs as a result of a break of the sewer line, it will be discharged directly into the river. This would result in short-term adverse effects on the surrounding Santa Clara River ecosystem.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☒ Primary	☐ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☒ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☒ Primary	☐ Secondary	☐ NA	Other (Please State):
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☒ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☒ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☒ Secondary	☐ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☒ Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☒ Yes ☐ No
If yes, please identify the program	Phase II and III of the Santa Clara River-Sewer Trunk Line Relocation Project. Phase I was funded by the Round 1 Implementation grant and is currently being implemented.

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	11/2009 **(mm/dd/yyyy)**
Feasibility Study	In process	12/2012 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	In process	12/2012 **(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	06/2013 **(mm/dd/yyyy)**
Permits	Not initiated	06/2013 **(mm/dd/yyyy)**
Construction Drawings	In process	06/2013 **(mm/dd/yyyy)**
Funding	In process	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Is the project located within or adjacent to a disadvantaged community?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Does the project include disadvantaged community participation?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
If yes, please identify the group or organization: _____		

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☒	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☒	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 2,500,000

Upper estimated total capital cost ($): 4,000,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): none for Phase 2 and 3

Annual Operation and Maintenance Cost ($): 30,000

Design Life of Project (years): 50 years

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Newhall County Water District

Agency / Organization / Individual Address:

Newhall County Water District / 23780 North Pine Street, Newhall, CA 91321

Possible Partnering Agencies:

Castaic Lake Water Agency, Santa Clarita Water Division, Valencia Water Company and LA County Waterworks #36

Name:*

Steve Cole

Title:

General Manager

Telephone:* 661-259-3610

Fax:

Email:*

sole@ncwd.org

Website:

www.ncwd.org

Project Name:*

Santa Clarita Valley Residential Turf Removal Program

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: **Project Longitude:**

Location Description:	

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

-
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Turf grass is the highest user of irrigation water in the Santa Clarita Valley. By incentivizing the removal of turf grass and replacing it with either low water using plants or by creating a non water using habitat, we expect to reduce runoff and decrease water usage. The program would reduce turf grass by 292,500 sq ft in year 1 and 585,000 sq ft total over 2 years. The estimated water savings is 20/21 acre feet for year 1. 40/42 acre feet for year 2.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project would offer residential customers a rebate of up to $1,500 per residence to remove up to 1,500 sq ft of turf grass. We would offer $1.00 per sq ft removed. The program will be designed with Long Beach Water Departments Lawn to Grass Program as our model.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

•
•
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clarita Valley Cash for Grass Rebate Program – SCVWUE Strategic Plan
• Long Beach Water Lawn to Garden Program - www.lblawntogarden.com
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	The program would reduce potable water usage by 20/21 ac ft in year 1 and 40/42 ac ft in year 2.
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	_____
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	_____
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	_____
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	The program will reduce runoff from watering turf grass.
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☒ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☒ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☒ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☐ Primary	☐ Secondary	☒ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☐ Primary	☐ Secondary	☒ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☒ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☒ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☒ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☐ Secondary	☒ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Not initiated	_____ **(mm/dd/yyyy)**
Feasibility Study	Not initiated	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	_____ **(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	_____ **(mm/dd/yyyy)**
Permits	Not initiated	_____ **(mm/dd/yyyy)**
Construction Drawings	Not initiated	_____ **(mm/dd/yyyy)**
Funding	Not initiated	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Is the project located within or adjacent to a disadvantaged community?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Does the project include disadvantaged community participation?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
If yes, please identify the group or organization: _____		

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☒	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☒	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 625,000

Upper estimated total capital cost ($): 625,000

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): 0

Annual Operation and Maintenance Cost ($): 312,500

Design Life of Project (years): 2

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Castaic Lake Water Agency

Agency / Organization / Individual Address:

27234 Bouquet Canyon Rd.
Santa Clarita, CA 91350

Possible Partnering Agencies:

Newhall County Water District, City of Santa Clarita, Los Angeles County Water District #36

Name:*

James Leserman

Title:

Senior Engineer

Telephone:* 661-297-1600 Ext. 245

Fax: 661-513-1202

Email:*

jleserman@clwa.org

Website:

Project Name:*

Santa Clarita Valley Volatile Organic Carbon Groundwater Investgation

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34° 26'N **Project Longitude:** 118° 35'W

Location Description:	All of the Santa Clarita Valley with particular emphasis on the east side of Railroad Avenue south of Bouquet Junction

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Newhall County Water District
- Los Angeles County Water District #36
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Groundwater provides the Santa Clarita Valley (SCV) with about half of its water supply. Volatile organic compounds (VOC) have contaminated SCV aquifers. VOCs have been detected in some SCV municipal water wells at levels below the current maximum contaminant level (MCL). CLWA and the retail water agencies are concerned that an increase in concentration and a likely reduction in the MCL for certain VOCs (TCE and PCE) could cause come current municipal wells to exceed the MCL. Unless action is taken and the threat is removed, this vital source of SCV's water supply could become compromised and ultimately eliminated.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project would be divided into three basic phases: investigation, design phase and construction. The investigation phase would include VOC sources identification and pathways to drinking water wells determination. The design phase would include selection of a strategy (containment at the source vs. wellhead treatment), selection of a removal technology (granular activated carbon, air stripping, etc.) and actual design of the wells and treatment processes. Depending on the results of the first two phases the construction phase could include construction and installation of wells, construction of a VOC removal process and associated piping.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Alluvial Aquifer
• Saugus Formation
•
•

Please identify up to three available documents which contain information specific to the proposed project:

• East Santa Clara Basin Groundwater Study
• Groundwater Quarterly Monitoring Reports, Operable Unit 7, Former Whittaker Bermite Facility
• 2003 CLWA Groundwater Management Plan

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	_____
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	_____
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	The project would improve water quality by providing geologic, hydraulic, and water quality data necessary in order to assess the potential for groundwater contamination; and in order to develop long-term solutions for pollution prevention within the aquifers.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The projects characterization and solution of groundwater contamination problems would promote resource stewardship by preserving the groundwater quality for beneficial use in the basin and for beneficial use of surface water and groundwater discharges from the basin.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	_____
Take actions within the watershed to adapt to climate change	_____
Promote projects and actions that reduce greenhouse gas (GHG) emissions	

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☐ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☐ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☐ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☐ NA	System Reoperation
☐ Primary	☐ Secondary	☐ NA	Water Transfers
☐ Primary	☐ Secondary	☐ NA	Other (Please State):_____
Increase Water Supply			
☐ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☐ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☐ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☐ NA	Recycled Municipal Water
☐ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☒Secondary	☐ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☐ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☐ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☐ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☐ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☐ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☐ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☐ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Not initiated	_____ **(mm/dd/yyyy)**
Feasibility Study	Not initiated	_____ **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	_____ **(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	_____ **(mm/dd/yyyy)**
Permits	Not initiated	_____ **(mm/dd/yyyy)**
Construction Drawings	Not initiated	_____ **(mm/dd/yyyy)**
Funding	Not initiated	_____ **(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

Does the project address any known environmental justice issues?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Is the project located within or adjacent to a disadvantaged community?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
Does the project include disadvantaged community participation?		
☐ **Yes**	☒ **No**	☐ **Not Sure**
If yes, please identify the group or organization: _____		

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☒	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☐	Provides Additional Water Supply	
☒	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☐	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): $250,000 (for just study looking at data from existing wells)

Upper estimated total capital cost ($): $5,000,000 (maximum if drilled more monitoring wells, analyzed data, and included extraction wells with treatment)

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): _____

Annual Operation and Maintenance Cost ($): _____

Design Life of Project (years): _____

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)			
Project Name:	Feasibility of Arundo Stem Cutting Ram (ASCR)		
Project Sponsor (Required):	Agriculture Access / Bouquet Canyon Network		
If Joint Project, Other Partners:	N/A		
Project Website (if available):	www.agricultureaccess.com		
Project Contact Person:	Phone	FAX	Email
Roger A. Haring	805-641-3781		rah@agricultureaccess.com

Project Description
Project Description (1 -2 sentences):
An hydraulic ram will be used to drive a large blade through clumps of Arundo donax stems, efficiently cutting at the base of the rh
Project Integration (Describe how the project does or could integrate with other projects in the Region):
ment of an Arundo Stem Cutting Ram (ASCR) could be used for any Arundo donax removal projectsrequire large clumps (Acres) c
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
The project is an independent feasibility study performed by Agriculture Access and a Welding Sub-Contractor of the SCV

Project Location
Descriptive (Description of property location etc.):
This project would be designed, built, and tested in the Santa Clarita Valley.

Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:	

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☐	In-Design ☑	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	2013				

Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)		☐ 1-100 AF		☐ 100-1000AF	☐ 1000+ AF
Water Quality	Area Drained: and/or			Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					
If a tool can efficiently cut and remove 'whole stems' of Arundo donax from a riparian habitat without disturbing the soil or rhizomes, it will increase the speed at which biomass can be removed without inducing potential spread of invasive weed propagules and excess biomass. This tool would be attached to a hydraulic arm that can reach, pull, and lift large quantities of					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [ ] Reduce Potable Water Demand
- [x] Increase Water Supply
- [ ] Improve Water Quality
- [x] Promote Resource Stewardship
- [x] Flooding/Hydromodification
- [ ] Adapt to climate change
- [x] Reduce greenhouse gas emissions

Project Benefits

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [x] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [x] Ecosystem Restoration
- [x] Flood Risk Management
- [x] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [x] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	ESFP Sludge Collection System				
Project Sponsor (Required):	Castaic Lake Water Agency				
If Joint Project, Other Partners:					
Project Website (if available):					
Project Contact Person:	Phone	FAX	Email		
Jason Yim	661-297-1600	661-513-1202	jyim@clwa.org		
Project Description					
Project Description (1 -2 sentences):					
This project consists of modifications to the wash water return and sludge collection system at CLWA's Earl Schmidt Filtration Plant.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This project improves the operational reliability of the wash water return system and the maintenance of the sludge collection system. As a result, it improves water quality and increases water supply in the region.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Capital Improvement Plan					
Project Location					
Descriptive (Description of property location etc.):					
Castaic Lake Water Agency Earl Schmidt Filtration Plant, 32700 N. Lake Hugh Road, Castaic CA					
Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34°29'53.67"N		Long: 118°36'2.68"W		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	2015 to 2017				
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)		☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:		
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					
The wash water return system provides up to 10% of the water being treated at the Earl Schmidt Filtration Plant (ESFP). The capacity of the ESFP is 56 mgd.					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [ ] Reduce Potable Water Demand
- [x] Increase Water Supply
- [x] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [x] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)

Project Name:	Water Use Efficiency Certification
Project Sponsor (Required):	CLWA
If Joint Project, Other Partners:	
Project Website (if available):	

Project Contact Person:	Phone	FAX	Email
Nancy Warfel	661-513-1206	661-297-1611	nwarfel@clwa.org

Project Description

Project Description (1 -2 sentences):

This program provides incentives to professionals in fields utilizing water, such as landscape maintenance contractors and plumbers, to become certified as good stewards of water. This program would utilize existing certification programs such as California Landscape Contractors Assiciation (CLCA) Water Management Certification Program and the Master Plumbers &

Project Integration (Describe how the project does or could integrate with other projects in the Region):

This project integrates with the current portfolio of water use efficiency education programs offered in the Santa Clarita Valley.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

N/A

Project Location

Descriptive (Description of property location etc.):

Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:	

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	2015				

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)		☑	1-100 AF	☐ 100-1000AF	☐	1000+ AF
Water Quality	Area Drained: and/or			Volume Treated:		
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*						

Other: *(Describe X amount of benefit)*

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [x] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [x] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Irrigation Efficiency Program				
Project Sponsor (Required):	CLWA				
If Joint Project, Other Partners:					
Project Website (if available):					
Project Contact Person:	Phone	FAX	Email		
Nancy Warfel	661-513-1206	661-297-1611	nwarfel@clwa.org		

Project Description
Project Description (1 -2 sentences):
This program provides financial incentives to end users help to increase the speed of implementation and use of efficient irrigation technologies in the Santa Clarita Valley in order to promote water use efficiency. Devices include, but are not limited to, high-efficiency sprinkler nozzles, pressure regulators, in-stem flow regulators and drip irrigation.
Project Integration (Describe how the project does or could integrate with other projects in the Region):
This project integrates with the current portfolio of water use efficiency programs in the Valley, and could be integrated into new conservation projects proposed as part of the update of the Water Use Efficiency Strategic Plan.
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Santa Clarita Valley Water Use Efficiency Strategic Plan Update

Project Location					
Descriptive (Description of property location etc.):					
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	2014				

Project Benefits				
Water Supply: *New Supply Created (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [x] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [x] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
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Updated information is in **BLUE** text.

General Information (Required)			
Project Name:	Update of the Rio Vista Water Treatment Plant Education Model		
Project Sponsor (Required):	CLWA		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Casey Gordon	661-513-1275	661-297-1611	cgordon@clwa.org

Project Description

Project Description (1 -2 sentences):

CLWA believes in the importance of educating our youth, our future leaders of tomorrow, on the benefits of protecting and conserving our water supply. Part of the Education Program features interactive student activities that present interesting and age-appropriate water treatment and conservation topics. One of the teaching instruments is a large demonstration educational scale model of the Rio Vista Treatment Plant (RVWTP). The model was originally built in XXXX, and demonstrates all of the treatment activities that occur here at the RVWTP, from the clarifiers, to ozone injection, XXX, XXX. The model needs updating to match the current activities at the plant and to be consistent with current water quality regulations.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location

Descriptive (Description of property location etc.):

CLWA Rio Vista Water Treatment Plant Administration Building

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

		<$100K	$100K - $1M	$1M - $10M	>$10M
Project Cost:		☑	☐	☐	☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐

Estimated Year of Construction: 2014-2015

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality — Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*			
Other: *(Describe X amount of benefit)*			

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [x] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [x] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Santa Clarita Valley Drought Relief Wells				
Project Sponsor (Required):	Castaic Lake Water Agency				
If Joint Project, Other Partners:					
Project Website (if available):					
Project Contact Person:	Phone	FAX	Email		
James Leserman	661-297-1600 Ext. 245	661-513-1202	jleserman@clwa.org		

Project Description
Project Description (1 -2 sentences):
Two new wells would provide additional capacity that would be utilized during extreme droughts and emergencies (e.g., following a major earthquake that affected the ability of the State Water Project to convey water)
Project Integration (Describe how the project does or could integrate with other projects in the Region):
The project would complement recycled water and water conservation as a means of providing increased reliability and additional supplies during periods of water shortages.
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Capital Improvement Plan, 2010 Urban Water Management Plan

Project Location				
Descriptive (Description of property location etc.):				
TBD				
Latitude/Longitude - info available at: http://geocoder.us/	Lat: TBD		Long: TBD	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:	<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:				

Project Benefits				
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☑ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [ ] Reduce Potable Water Demand
- [x] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [x] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [x] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [x] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Saugus Formation Replacement Wells				
Project Sponsor (Required):	Castaic Lake Water Agency				
If Joint Project, Other Partners:					
Project Website (if available):					
Project Contact Person:	Phone	FAX	Email		
James Leserman	661-297-1600 Ext. 245	661-513-1202	jleserman@clwa.org		

Project Description
Project Description (1 -2 sentences):
Two new wells perforated in the Saugus Formation would replace groundwater production replacing capacity that was lost to perchlorate contamination. Project would include design and construction of wells, reservoir and pipelines to connect to CLWA's existing transmission system.
Project Integration (Describe how the project does or could integrate with other projects in the Region):
Project would complement the Saugus Perchlorate Treatment Facility (SPTF) project by providing additonal capacity over and above that which was replaced by the SPTF.
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Capital Improvement Plan, 2003 Groundwater Management Plan, 2010 Urban Water Management Plan

Project Location					
Descriptive (Description of property location etc.):					
Magic Mountain Parkway west of I-5					
Latitude/Longitude - info available at:	http://geocoder.us/	Lat:	34º 25' 16.82"	Long:	118º 35' 25.96"

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					

Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)		☐ 1-100 AF		☐ 100-1000AF	☑ 1000+ AF
Water Quality	Area Drained: and/or			Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [ ] Reduce Potable Water Demand
- [x] Increase Water Supply
- [ ] Improve Water Quality
- [x] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [x] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [x] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [x] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [x] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)

Project Name:	**Apam and Byfield Water Main**
Project Sponsor (Required):	LA County Waterworks District No. 36
If Joint Project, Other Partners:	N/A
Project Website (if available):	N/A

Project Contact Person:	Phone	FAX	Email
Sami Kabar	626-300-3339	626-300-3385	skabar@dpw.lacounty.gov

Project Description

Project Description (1 -2 sentences):

The project consists of installing approximately 1500 linear feet of 12-inch diameter water main along Byfield Road and Apam Avenue. The proposed 12-inch pipe will help improve the low pressure conditions currently experienced in the surrounding area.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

N/A

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Waterworks District No. 36, Val Verde Capital Improvement 5-yr Plan.

Project Location

Descriptive (Description of property location etc.):

The proposed pipeline will be installed along a private dirt road beinning near 30334 Byfield Road going east, then continuing south on the private dirt road onto Apam Avenue, ending at the intersection of Apam Avenue and Hawkset Street.

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	34.476576	Long:	-118.66518

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

Project Cost:	600,000	<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐

Project Status (Check all that apply):	Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐

Estimated Year of Construction: 2014

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality — Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*			

Other: *(Describe X amount of benefit)*

Improved water pressure to local residents by 10-20 psi during high water demand periods.

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- ☐ Reduce Potable Water Demand
- ☑ Increase Water Supply
- ☐ Improve Water Quality
- ☐ Promote Resource Stewardship
- ☐ Flooding/Hydromodification
- ☐ Adapt to climate change
- ☐ Reduce greenhouse gas emissions

Project Benefits

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☑ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☑ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Landscape Irrigation Efficiency Program				
Project Sponsor (Required):	Los Angeles County Waterworks District #36 (LACWD#36)				
If Joint Project, Other Partners:					
Project Website (if available):					
Project Contact Person:	Phone	FAX	Email		
Rea Gonzalez	626-300-3338	626-300-3385	rjoseph@dpw.lacounty.gov		
Project Description					
Project Description (1 -2 sentences):					
This program will provide a service to customers to help decrease outdoor water use. It will involve an intensive water use survey of the lanscaped area and the installation of high efficiency nozzles.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This program can be offered region-wide.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Water Conservation/Effficiency					
Project Location					
Descriptive (Description of property location etc.):					
Val Verde					
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)		☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:		
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

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Updated information is in **BLUE** text.

General Information (Required)

Project Name:	Cash for Grass Rebate Program
Project Sponsor (Required):	Los Angeles County Waterworks District #36
If Joint Project, Other Partners:	
Project Website (if available):	

Project Contact Person:	Phone	FAX	Email
Rea Gonzalez	626-300-3338	626-300-3385	rjoseph@dpw.lacounty.gov

Project Description

Project Description (1 -2 sentences):

The Cash for Grass Rebate Program will offer customers a rebate per square foot of grass removed and replaced with water-efficient lanscaping.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

This project can be integrated by offering the same rebate program to all customers of the region. This can be a region wide program administered by each provider.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Water Conservation/Effficiency

Project Location

Descriptive (Description of property location etc.):

Val Verde

Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)		☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
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- [ ] Matching Water Quality to Water Use
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- [ ] Surface Storage - CALFED
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- [ ] System Reoperation
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CALL FOR PROJECTS
Project Identification Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWMP. More information may be required at a later date. This form may be printed, filled out by hand and mailed back to Meredith Clement, Kennedy/Jenks Consultants, 2775 North Ventura Road, Oxnard, CA 93036 **OR** electronically filled out and e-mailed **BY AUGUST 17, 2012** to: MeredithClement@kennedyjenks.com.

Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Advanced Meter Infrastructure				
Project Sponsor (Required):	Los Angeles County Waterworks District #36 (LACWD#36)				
If Joint Project, Other Partners:					
Project Website (if available):					
Project Contact Person:	Phone	FAX	Email		
Rea Gonzalez	626-300-3338	626-300-3385	rjoseph@dpw.lacounty.gov		
Project Description					
Project Description (1 -2 sentences):					
This project will entail the installation of Automatic Meter Infrastructure (AMI) in all properties served by LACWD #36.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This project will provide customers the ability to use water more efficiently and provide LACWD #36 the ability to detect problems on their systems and operate them more efficiently.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Water Conservation/Effficiency					
Project Location					
Descriptive (Description of property location etc.):					
Val Verde					
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)		☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:		
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [ ] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	**Replacement of 8-inch Water Main Along Del Valle Road**				
Project Sponsor (Required):	LA County Waterworks District No. 36				
If Joint Project, Other Partners:					
Project Website (if available):					
Project Contact Person:	Phone	FAX	Email		
Ramy Gindi	626-300-3349		rgindi@dpw.lacounty.gov		
Project Description					
Project Description (1 -2 sentences):					
Replace 6,900 feet of existing 8-inch water main along Del Valle Road with a 12-inch water main.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
N/A					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Capital Improvement Plans					
Project Location					
Descriptive (Description of property location etc.):					
The water main will commence at the intersection of Del Valle Road and Hasley Canyon, and connect to the existing system 6,900 feet south of the intersection.					
Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34.449296 ° N 34 ° 26'		Long: -118.626739 ° W 118 ° 37'		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	2015				
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)			☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality	Area Drained: and/or			Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					
The project is a water system reliability project that would provide a more reliable potable water supply to 1,346 customers. The proposed project would replace aged infrustructure with high susptability to leaks.					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- ☐ Reduce Potable Water Demand
- ☑ Increase Water Supply
- ☐ Improve Water Quality
- ☐ Promote Resource Stewardship
- ☐ Flooding/Hydromodification
- ☐ Adapt to climate change
- ☐ Reduce greenhouse gas emissions

Project Benefits

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☑ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☑ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)			
Project Name:	**Hasley Canyon Road Water Main, Turnout Connection, and Pump Station Project**		
Project Sponsor (Required):	LA County Waterworks District No. 36		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Ramy Gindi	626-300-3349		rgindi@dpw.lacounty.gov

Project Description
Project Description (1 -2 sentences):
Design and construction of a new turnout, pump station and 5,700 feet of water main to provide a more reliable connection with Castaic Lake Water Agency. The proposed connection would supplement a smaller and an aged connection that is more suspetable to failure and leaks.
Project Integration (Describe how the project does or could integrate with other projects in the Region):
N/A
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Capital Improvement Plan

Project Location				
Descriptive (Description of property location etc.):				
The turnout will be located on Sedona Way near the intersection with The Old Road in Castaic. The water main will commence at the intersection of Hasley Canyon and The Old Road, and connect to the existing system at Industry Drive. The pump station will be located along the proposed main.				
Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34.457908 ° N 34 ° 27'		Long: -118.617326 ° W 118 ° 37'	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	2015			

Project Benefits				
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Other: *(Describe X amount of benefit)*				
The project is a water system reliability project that would provide a more reliable potable water supply to 1,346 customers. The connection is estimated to deliver 585 AFY. The project would minimize the amount of water lost through leaks.				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- ☐ Reduce Potable Water Demand
- ☑ Increase Water Supply
- ☐ Improve Water Quality
- ☐ Promote Resource Stewardship
- ☐ Flooding/Hydromodification
- ☐ Adapt to climate change
- ☐ Reduce greenhouse gas emissions

Project Benefits

- ☐ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☐ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☐ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☑ Drinking Water Treatment and Distribution
- ☐ Economic Incentives
- ☐ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☐ Groundwater/Aquifer Remediation
- ☐ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☐ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☐ Recycled Municipal Water
- ☐ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☐ Urban Runoff Management
- ☑ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☐ Watershed Management

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

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Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Newhall Creek In-River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°22'41.20"N **Project Longitude:** 118°31'10.45"W

Location Description:	Near Confluence of Newhall Creek and Santa Clara River South Fork

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

• Los Angeles County Flood Control District/Ken Zimmer
•
•
•

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Newhall Creek In-River Spreading Grounds Project would consist of excavating a portion of the river and widening the river to provide in-stream recharge basins. Habitat could be restored along the river. Earthern berms would be constructed to divert the water into the basins. The berms may be washed out during high flows and would need to be reestablished. Trash would be detained in and then removed from the outer basins.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected in and removed from the outer basins
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☐ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2013 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed. Habitat restoration and/or the removal of invasive species will be performed to offset any disturbances caused by the construction of the project.

The project will result in a temporary storage of 25 acre-feet of storm runoff which equates to about 75 acre-feet of water conservation. It will benefit 1 acre of riparian habitat area, and 4 acres of non-developed open space area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 2,000,000.00

Upper estimated total capital cost ($): 5,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): Unknown

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

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Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

NA

Project Name:*

Lower San Francisquito Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°26'53.27"N **Project Longitude:** 118°33'30.51"W

Location Description:	San Francisquito Creek, Upstream of Decoro Drive, North Bank

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project consists of building a recharge facility and diversion. Flows will be redirected to the west bank and to the property adjacent to the river where basins for recharge will be excavated. An earthen diversion will wash out during major storms and will later need to be rebuilt. There may be opportunities for habitat restoration and passive recreation in the surrounding areas. Trash that washes into the river will be collected in the basins and be removed regularly.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- San Francisquito Canyon Creek
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed before entering the spreading grounds. Annual basin maintenance will remove the top clogging layer of soil where the heavy metals settle out. Additional water recharged would serve to blend any groundwater that may have contaminants.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the main river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☐ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☐ NA	Forest Management
☐ Primary	☐ Secondary	☐ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☒ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and habitat restoration and/or passive recreation are possible at the site.

The project will result in a temporary storage of 190 acre-feet of storm runoff for a water conservation benefit of about 570 acre-feet. It will benefit 10 acres of riparian habitat area, and 35 acres of non-developed open space area.

Does the project address any known environmental justice issues?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?

☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 3,000,000.00

Upper estimated total capital cost ($): 6,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):
Unknown

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Placerita Creek Off-River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°23'29.64"N **Project Longitude:** 118°32'5.73"W

Location Description:	Near Confluence of Placerita Creek and Santa Clara River South Fork

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The Placerita Creek Off-River Spreading Grounds Project would consist of building a recharge facility and a diversion structure. Storm flows from the creek and the South Fork of the Santa Clara River would be diverted into the spreading basin using an earthen berm. Trash would wash into the spreading grounds and be removed post storm. The spreading grounds could incorporate habitat restoration and/or passive recreation.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the main river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed. The site has potential for habitat restoration and/or passive recreation features.

The project will result in a temporary storage of 75 acre-feet of storm runoff which equates to about 220 acre-feet of water conservation. It will benefit 3 acres of riparian habitat area, and 14 acres of non-developed open space area.

Does the project address any known environmental justice issues?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?

☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?

☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 3,000,000.00

Upper estimated total capital cost ($): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($): Unknown

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Santa Clara River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'57.84"N **Project Longitude:** 118°26'3.47"W

Location Description:	Santa Clara River between 14 FWY and Sand Canyon Road

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project would construct earthen levees in the river to slow down and spread flows across the river. Another levee would direct flows to an adjacent property along the south bank. The diversion levee would wash-out during higher flows to minimize damage to the proposed levees. The off-river portion of this proposal could be designed to incorporate habitat and passive recreation. Trash would be diverted and detained at the basins for post-storm removal.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed at the spreading grounds.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the spreading grounds. Habitat restoration and/or passive recreation could be implemented at the spreading grounds site.

The project will result in storage of 348 acre-feet of storm runoff and 1040 acre-feet of water conservation benefit in an average water year. It will also benefit 10 acres of riparian habitat area, and 74 acres of non-developed open space area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 7,000,000.00

Upper estimated total capital cost ($): 10,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Santa Clara River Rubber Dam No. 1

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'28.15"N **Project Longitude:** 118°32'23.15"W

Location Description:	Santa Clara River, Bouquet Canyon Road Bridge

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

An air inflatable rubber dam will be constructed at the proposed location in the Santa Clara River. During storm flows, the rubber dam will inflate, and the water will pond and percolate behind the rubber dam. During nonstorm weather, the rubber dam will stay deflated to allow lower flows in the river to pass without obstruction. Habitat will be restored along the river. Trash that collects behind the rubber dam will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected and removed at the rubber dam.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Detaining the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2013 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed at the rubber dam. Removal of non-native species could be incorporated at the site.

The project will result in storage of 78 acre-feet of storm runoff, and 230 acre-feet of water conservation benefit per average water year. The project will also benefit 6 acres of riparian habitat area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 5,000,000.00

Upper estimated total capital cost ($): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Santa Clara Off-River Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'34.74"N **Project Longitude:** 118°28'20.72"W

Location Description:	Upstream of Whites Canyon Road Crossing on Santa Clara River.

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The project would install a diversion in the Santa Clara River that would convey water to the adjacent property where recharge basins would be constructed. Trash would be collected in the spreading grounds. The streamflow gages would be placed to determine the amount of water that is being directed to the spreading grounds. Passive recreation and habitat restoration could be incorporated into the design of the facility

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

• Santa Clara River Watershed
• Santa Clara River Valley Groundwater Basin, East Subbasin
• Santa Clara River
•

Please identify up to three available documents which contain information specific to the proposed project:

• Santa Clara River Watershed Water Conservation Feasibility Study
•
•

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the main river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☐ Primary	☐ Secondary	☒ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the spreading grounds. Habitat restoration and/or passive recreation could be incorporated at this location.

The project will result in storage of 223 acre-feet of storm runoff and 670 acre-feet of water conservation benefit per average water year. It will benefit 10 acres of riparian habitat, and 41 acres of non-developed open space area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 4,000,000.00

Upper estimated total capital cost ($): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

SCR South Fork Rubber Dam No. 2

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'26.41"N **Project Longitude:** 118°32'28.57"W

Location Description:	Santa Clara River South Fork, Near Covala Drive

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will involve the installation of an inflatable-rubber dam to aid in conserving storm-water within the South Fork of the Santa Clara River. Since the rubber dam will be installed on an existing drop structure, the native ground surface will not be disturbed. During storm flows, the rubber dam will inflate, and water will pond and percolate behind the dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure and allow lower flows in the river to pass without obstruction. Habitat could be restored along the banks of the river. Trash that washes into the river will be collected at the rubber dam and it will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected and removed at the rubber dam.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the rubber dam will provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of bike paths along a large stretch of the river. These areas are adjacent to power line easements which may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in storage of 32 acre-feet of storm runoff and 96 acre feet of water conservation benefit per average water year. It will benefit 36 acres of riparian habitat area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 5,000,000.00

Upper estimated total capital cost ($): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

SCR South Fork Rubber Dam No. 3

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'45.59"N **Project Longitude:** 118°32'35.95"W

Location Description:	Santa Clara River South Fork, Continuation of Pueblo Drive

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained at the rubber dam and will be removed when the water level drops. The adjacent power line easement will be used for habitat restoration.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will install an air-inflatable rubber dam, utilizing the location of an existing drop structure on the South Fork of the Santa Clara River. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure. This will allow the lower flows in the river to pass without obstruction. Habitat will be restored along the banks of the river. Trash that washes into the river and collects behind the rubber dam will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected and removed at the rubber dam.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of a bike path along a large stretch of the river. These areas are adjacent to power line easements that may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in storage of 44 acre-feet for storm runoff and 130 acre-feet of water conservation benefit per average water year. It will benefit 14 acres of riparian habitat area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 5,000,000.00

Upper estimated total capital cost ($): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Upper San Francisquito Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°28'42.63"N **Project Longitude:** 118°32'45.91"W

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Santa Clara In-River Spreading Grounds No. 2

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'51.48"N **Project Longitude:** 118°22'54.67"W

Location Description:	Santa Clara River, Upstream of Lang Station Road

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

The spreading grounds would utilize earthen levees to redirect flows to the outside banks of the Santa Clara River. Small recharge basins and finger levees along the outer banks would slow flows and increase recharge in this stretch of the river. Trash would typically be detained in the outer basins and removed from the river post storm. High flows would wash out the low levees, and they would be rebuilt after larger storms. Adjacent areas may provide opportunities for habitat restoration and possible invasive species removal.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as heavy metals and trash from the water. Trash will be collected and removed from the outer basins.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds provides habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected and removed from the outer basins. The surrounding areas will be evaluated in terms of habitat restoration need or non-native species removal.

The project will provide storage of 75 acre-feet of storm runoff and 225 acre-feet of water conservation in an average water year. It will benefit 5 acres of riparian habitat area, and 13 acres of non-developed open space area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 2,000,000.00

Upper estimated total capital cost ($): 5,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Location Description:	San Francisquito Creek, Upstream of Copper Hill Drive

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will construct earthen levees that will divert water to the outside limits of San Francisquito Creek where recharge basins will be constructed. During higher flows, the earthen levee would wash out and regular maintenance to restore the levees will be necessary. There may be opportunities for habitat restoration and passive recreation in the surrounding areas. Trash that washes into the creek will be detained at the recharge basins and will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- San Francisquito Canyon Creek
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the basins. There is a potential for habitat restoration and/or passive recreation.

The project will result in 232 acre-feet of storage for storm runoff and 700 acre-feet of water conservation benefit per average water year. It will benefit 10 acres of riparian habitat area, and 43 acres of non-developed open space area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 3,000,000.00

Upper estimated total capital cost ($): 6,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

SCR South Fork Rubber Dam No. 3

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°24'45.59"N **Project Longitude:** 118°32'35.95"W

Location Description:	Santa Clara River South Fork, Continuation of Pueblo Drive

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

Ongoing

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained at the rubber dam and will be removed when the water level drops. The adjacent power line easement will be used for habitat restoration.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will install an air-inflatable rubber dam, utilizing the location of an existing drop structure on the South Fork of the Santa Clara River. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure. This will allow the lower flows in the river to pass without obstruction. Habitat will be restored along the banks of the river. Trash that washes into the river and collects behind the rubber dam will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected and removed at the rubber dam.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	Complete	10/27/2009 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of a bike path along a large stretch of the river. These areas are adjacent to power line easements that may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in storage of 44 acre-feet for storm runoff and 130 acre-feet of water conservation benefit per average water year. It will benefit 14 acres of riparian habitat area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 5,000,000.00

Upper estimated total capital cost ($): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

SCR South Fork Rubber Dam No. 4

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°25'7.53"N **Project Longitude:** 118°32'54.69"W

Location Description:	Santa Clara River South Fork, Valencia Blvd. Bridge.

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained at the rubber dam and will be removed when the water level drops. The adjacent power line easement will be used for habitat restoration.

If the project is not constructed, imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

Utilizing the location of an existing drop structure, this project will install an air-inflatable rubber dam in the South Fork of the Santa Clara River. During storm flows the rubber dam will inflate, and water will pond and percolate behind the rubber dam. After the water percolates, the rubber dam will slowly deflate and lay flat across the drop structure and allow lower flows in the river to pass without obstruction. Habitat will be restored along the banks of the river. The adjacent power line easement provides opportunities for habitat restoration and possible recreation. Trash will be removed at the rubber dam after storms.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- Santa Clara River South Fork
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Trash will be collected and removed at the rubber dam.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the rubber dam could provide habitat restoration and/or possible removal of non-native invasive species in the river and/or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Holding the water for recharge to an in-stream area in the river may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☐ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☐ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2013 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. The river has recreation in the form of bike paths along a large stretch of the river. These areas are adjacent to power line easements which may provide an opportunity for habitat restoration. Trash will be collected and removed.

The project will result in 115 acre-feet of storm runoff storage and 340 acre-feet of water conservation benefit per average water year. It will also benefit 25 acres of riparian habitat area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**
If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 5,000,000.00

Upper estimated total capital cost ($): 7,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

Upper Santa Clara River Integrated Regional Water Management Plan

Project Identification – Long Form

To the extent possible this form should be electronically filled out and e-mailed BY AUGUST 17, 2012 to: MeredithClement@kennedyjenks.com. Items denoted with an asterisk are required.

Part 1. Lead Implementing Agency/Organizational Information

Please provide the following information regarding the project sponsor and proposed project.

Implementing Agency/ Organization / Individual: *

Los Angeles County Flood Control District

Agency / Organization / Individual Address:

900 South Fremont Ave. Alhambra, CA 91803

Possible Partnering Agencies:

Name:*

Ken Zimmer

Title:

Senior Civil Engineer

Telephone:* 626-458-6188

Fax: 626-979-5436

Email:*

kzimmer@dpw.lacounty.gov

Website:

N/A

Project Name:*

Upper San Francisquito Spreading Grounds

Either the latitude/longitude or a location description is required. To determine the latitude/longitude, use the closest address or intersection. If the project is linear, use the furthest upstream latitude/longitude.

Project Latitude: 34°28'42.63"N **Project Longitude:** 118°32'45.91"W

Location Description:	San Francisquito Creek, Upstream of Copper Hill Drive

Project Cooperating Agency(ies)/Organization(s)/Individual(s):

- Los Angeles County Flood Control District/Ken Zimmer
-
-
-

Project Status (e.g., new, ongoing, expansion, new phase):

New

Part 2. Project Need*

It is important to understand the need(s) or issue(s) that the proposed project will address and the benefits that it will provide. Information provided in this section defines the need(s) or issue(s) that the proposed project will address and will help to catalog existing need(s) or issue(s) in the Upper Santa Clara River Watershed Region.

Please provide a 1-2 paragraph description of the need(s) or problem(s) that the project will address. As applicable, discuss the water supply need, operational efficiency need, water quality need, or resource stewardship need (e.g. ecosystem restoration, floodplain management) need. Discuss critical impacts that will occur if the proposal is not implemented.

Capturing stormwater that is currently lost to the ocean will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Trash from the surrounding urban watershed will be partially detained and removed at the spreading grounds.

If the project is not constructed imported water purchases will not be offset by the additional available local groundwater supplies, trash in the river will not be reduced at the location, and the native vegetation will not be restored to provide habitat for native species.

Part 3. Project Description*

A general description of the proposed project is needed. This section will provide information associated with the project concept, general project information, and readiness to proceed. It is recognized that much of the requested information may not be available for projects that are at a conceptual level of project development. We appreciate and need your ideas.

Please provide a 1-2 paragraph description of the project including the general project concept, what will be constructed/implemented, how the constructed project will function, and treatment methods, as appropriate.

This project will construct earthen levees that will divert water to the outside limits of San Francisquito Creek where recharge basins will be constructed. During higher flows, the earthen levee would wash out and regular maintenance to restore the levees will be necessary. There may be opportunities for habitat restoration and passive recreation in the surrounding areas. Trash that washes into the creek will be detained at the recharge basins and will be removed.

If applicable, list surface water bodies and groundwater basins associated with the proposed project:

- Santa Clara River Watershed
- Santa Clara River Valley Groundwater Basin, East Subbasin
- San Francisquito Canyon Creek
-

Please identify up to three available documents which contain information specific to the proposed project:

- Santa Clara River Watershed Water Conservation Feasibility Study
-
-

Part 4. IRWMP Objectives Addressed by Project*

Describe how the project meets any of the following IRWMP objectives:

Reduce Potable Water Demand: Implement technological, legislative and behavioral changes that will reduce user demands for water.	N/A
Increase Water Supply*:* Understand future regional demands and obtain necessary water supply sources.	Additional recharge of the aquifer will increase the available local supplies and reduce the demand of imported water.
Improve Water Quality: Supply drinking water with appropriate quality; improve groundwater quality; and attain water quality standards.	Soil aquifer treatment will remove contaminants such as metals and trash from the water. Trash will be collected and removed before entering the spreading grounds.
Promote Resource Stewardship*:* Preserve and improve ecosystem health; improve flood management; and preserve and enhance water-dependent recreation.	The construction of the spreading grounds could provide habitat restoration and/or possible removal of non-native invasive species in the river or adjacent property.
Flooding/Hydromodification: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding outside the natural erosion and deposition process endemic to the Santa Clara River.	Diverting the water from the river for recharge may prevent flooding downstream.
Take actions within the watershed to adapt to climate change	N/A
Promote projects and actions that reduce greenhouse gas (GHG) emissions	N/A

Part 5. Resource Management Strategies *

Please indicate California Water Plan strategies addressed by the proposed project. (Check all that apply)

Reduce Water Demands			
☐ Primary	☐ Secondary	☒ NA	Agricultural Water Use Efficiency
☐ Primary	☐ Secondary	☒ NA	Urban Water Use Efficiency
Improve Operational Efficiency and Transfers			
☐ Primary	☐ Secondary	☒ NA	Conveyance – Delta, Regional/Local
☐ Primary	☐ Secondary	☒ NA	System Reoperation
☐ Primary	☐ Secondary	☒ NA	Water Transfers
☐ Primary	☐ Secondary	☒ NA	Other (Please State):_____
Increase Water Supply			
☒ Primary	☐ Secondary	☐ NA	Conjunctive Management and Groundwater Storage
☐ Primary	☐ Secondary	☒ NA	Desalination – Brackish/Seawater
☐ Primary	☐ Secondary	☒ NA	Precipitation Enhancement
☐ Primary	☐ Secondary	☒ NA	Recycled Municipal Water
☒ Primary	☐ Secondary	☐ NA	Surface Storage – CALFED or Regional/Local
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Water Quality			
☐Primary	☐Secondary	☒ NA	Drinking Water Treatment and Distribution
☒ Primary	☐ Secondary	☐ NA	Groundwater/Aquifer Remediation
☐ Primary	☐ Secondary	☒ NA	Matching Quality to Use
☒ Primary	☐ Secondary	☐ NA	Pollution Prevention
☐ Primary	☐ Secondary	☒ NA	Salt and Salinity Management
☒ Primary	☐ Secondary	☐ NA	Urban Runoff Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State) _____

Practice Resource Stewardship			
☐ Primary	☐ Secondary	☒ NA	Agricultural Lands Stewardship
☐ Primary	☐ Secondary	☒ NA	Economic Incentives (loans, grants, water pricing)
☐ Primary	☒ Secondary	☐ NA	Ecosystem Restoration
☐ Primary	☐ Secondary	☒ NA	Forest Management
☐ Primary	☐ Secondary	☒ NA	Land Use Planning and Management
☒ Primary	☐ Secondary	☐ NA	Recharge Areas Protection
☐ Primary	☐ Secondary	☒ NA	Water-Dependent Recreation
☐ Primary	☒ Secondary	☐ NA	Watershed Management
☐ Primary	☐ Secondary	☒ NA	Other (Please State): _____
Improve Flood Risk Management			
☐ Primary	☒ Secondary	☐ NA	Flood Risk Management
Other Strategies			
☐ Primary	☐ Secondary	☒ NA	Please State: _____

Is the proposed project an element or phase of a regional or larger program?	☐ Yes ☒ No
If yes, please identify the program	_____

Part 6. Project Readiness*

Item	Status (e.g., not initiated, in process, complete)	Date
Conceptual Plans	In process	06/15/2014 **(mm/dd/yyyy)**
Feasibility Study	Complete	11/14/2007 **(mm/dd/yyyy)**
Preliminary Design and Cost Estimates	Not initiated	**(mm/dd/yyyy)**
CEQA/NEPA	Not initiated	**(mm/dd/yyyy)**
Permits	Not initiated	**(mm/dd/yyyy)**
Construction Drawings	Not initiated	**(mm/dd/yyyy)**
Funding	Not initiated	**(mm/dd/yyyy)**

For projects that do not include construction, please briefly describe the project readiness-to proceed.

Part 7. Other Project Benefits *

Please provide a 1-2 paragraph description of the benefit(s) that the project will address. Information provided will be used in the assessment of project benefits. Quantify benefits to the extent possible (e.g., project will result in x acre-feet of water savings, project will benefit x acres of habitat)

This proposed project will primarily improve the health and long-term sustainability of the groundwater basin, increase local groundwater supplies, and reduce the region's reliance on water imports. Additional benefits are water quality enhancements that will help to alleviate downstream concerns. Trash will be collected at the basins. There is a potential for habitat restoration and/or passive recreation.

The project will result in 232 acre-feet of storage for storm runoff and 700 acre-feet of water conservation benefit per average water year. It will benefit 10 acres of riparian habitat area, and 43 acres of non-developed open space area.

Does the project address any known environmental justice issues?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Is the project located within or adjacent to a disadvantaged community?
☐ **Yes** ☐ **No** ☒ **Not Sure**

Does the project include disadvantaged community participation?
☐ **Yes** ☐ **No** ☒ **Not Sure**

If yes, please identify the group or organization: _____

Please indicate to what extent your project contributes to Climate Change Response Actions.

Adaptation to Climate Change		
☐	Increases Water Supply Reliability	
☐	Advances/ Expands Conjunctive Management of Multiple Water Supply Sources	
☐	Increases Water Use and/or Reuse Efficiency	
☒	Provides Additional Water Supply	
☐	Promotes Water Quality Protection	
☐	Reduces Water Demand	
☐	Advances/Expands Water Recycling	
☒	Promotes Urban Runoff Reuse	
☐	Addresses Sea Level Rise	
☐	Addresses other Anticipated Climate Change Impact (e.g. through water management system modifications) Please State:	
☒	Improves Flood Control (e.g. through wetlands restoration, management, protection)	
☐	Promotes Habitat Protection	
	☐	Establishes Migration Corridors
	☐	Re-establishes River-Floodplain Hydrologic Continuity
	☐	Re-introduces Anadromous Fish Populations to Upper Watersheds
	☐	Enhances and Protects Upper Watershed Forests and Meadow Systems
	☐	Other (Please State):
☐	Other (Please State):_____	
Reduces Greenhouse Gas Emissions and/or Energy Consumption		
☐	Promotes Energy-Efficient Water Demand Reduction or Increases Water Use Efficiency	
☐	Improves Water System Energy Efficiency	
☐	Advances/Expands Water Recycling	
☐	Promotes Urban Runoff Reuse that Leads to Reduced Energy Demand	
☐	Promotes Use of Renewable Energy Sources	
☐	Contributes to Carbon Sequestration (e.g. through vegetation growth)	
☐	Other (Please State):	

Part 8. Project Cost Estimate

Project cost information is needed to assist in comparing benefits and costs. Additionally, knowledge of the project type and cost will assist in identifying funding sources for potential projects.

Please indicate the estimated total capital cost for project implementation. These costs include land purchase/easement, planning/design/engineering, construction/ implementation, environmental compliance, administration, and contingency.

Lower estimated total capital cost ($): 3,000,000.00

Upper estimated total capital cost ($): 6,000,000.00

Of the total capital cost, please indicate the estimated cost for land purchase / easement ($):

_____

Annual Operation and Maintenance Cost ($): 25,000.00

Design Life of Project (years): 50

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)

Project Name:	Recycled Water Onsite Conversion
Project Sponsor (Required):	Newhall County Water District
If Joint Project, Other Partners:	Phase 2C of CLWA Recycled Water Master Plan
Project Website (if available):	

Project Contact Person:	Phone	FAX	Email
Steve Cole	(661) 259-3610	(661) 259-9673	scole@ncwd.org

Project Description

Project Description (1 -2 sentences):
This project would address onsite plumbing conversions of five locations to allow the use of both potable and recycled water.

Project Integration (Describe how the project does or could integrate with other projects in the Region):
This project integrates with the the Santa Clarita Valley Southern End Recycled Water Project

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Castaic Lake Water Agency Recycled Water Master Plan

Project Location

Descriptive (Description of property location etc.):
Landscape irrigation for Hart High School, Placerita Junior High School, Newhall Elementary School, Hart Park, and Newhall Park

Latitude/Longitude - info available at: http://geocoder.us/	Lat:	Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

	Project Cost:	<$100K	$100K - $1M	$1M - $10M	>$10M
		☐	☑	☐	☐

Project Status (Check all that apply):	Conceptual	In-Design	Ready for Construction	CEQA Complete
	☑	☐	☐	☐

Estimated Year of Construction: 2015

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality — Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*			

Other: *(Describe X amount of benefit)*
This project would allow approximately 180-240AF of potable water savings by dedicating recycled water usage for landscape irrigation.

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [x] Climate Change Adaptation
- [ ] Climate Change Prevention

Project Benefits

- [x] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [x] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Advanced Metering Infrastructure Program				
Project Sponsor (Required):	Newhall County Water District				
If Joint Project, Other Partners:	NA				
Project Website (if available):	NA				
Project Contact Person:	Phone	FAX	Email		
Steve Cole	661-259-3610		scole@ncwd.org		
Project Description					
Project Description (1 -2 sentences):					
Develop an advanced metering infrastructure (AMI) system within the districts' service areas. This system will allow NCWD to collect real-time water demand data from customer meters. The system will give customers current usage data and allow NCWD to be proactive with leak detection.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This project is consistent with the CALFED Bay Delta Program Goals #1, 2, 3 and 4 and goals identified in the Santa Clarita Valley Water Use Efficiency Plan.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Project Location					
Descriptive (Description of property location etc.):					
This project is located in Castaic, Newhall, Valencia and Canyon Country which is in Los Angeles County. It would cover an area of approximately 35 square miles.					
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☐	In-Design ☑	Ready for Construction ☑	CEQA Complete ☐
Estimated Year of Construction:	2013 through 2015				
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)		☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:		
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					
This project will reduce the amount of water lost to leaks and result in better dry-year reliability. By providing real-time water consumption data to all customers, water use efficiency will increase, reducing overall demand for imported water sources and helping to maintain a sustainable groundwater supply.					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [x] Increase Water Supply
- [ ] Improve Water Quality
- [x] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [x] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)			
Project Name:	Septic to sewer retrofit project		
Project Sponsor (Required):	City of Santa Clarita		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Heather Merenda	661-284-1413	661-255-4356	hmerenda@santa-clarita.com

Project Description
Project Description (1 -2 sentences):
There are 1,000 to 2,500 septic tanks properties within City limits. This project would provide financial incentives and infrastructure
Project Integration (Describe how the project does or could integrate with other projects in the Region):
Related to TMDLs, NPDES Permit compliance, protecting groundwater, and DACs in Newhall.
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Bacteria TMDL for the Santa Clara River

Project Location					
Descriptive (Description of property location etc.):					
Newhall, Sand Canyona and Placerita Canyons primarily					
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☐	>$10M ☑
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	2015				

Project Benefits				
Water Supply: *New Supply Created (AFY)* (Check one)		☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality	Area Drained: and/or 10,000		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Other: *(Describe X amount of benefit)*				
reduce grounwater contamination from septic tanks;				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- ☐ Reduce Potable Water Demand
- ☑ Increase Water Supply
- ☑ Improve Water Quality
- ☑ Promote Resource Stewardship
- ☐ Flooding/Hydromodification
- ☐ Climate Change Adaptation
- ☐ Climate Change Prevention

Project Benefits

- ☑ Include Regional Projects or Programs
- ☐ Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- ☐ Effectively Resolve Significant Water-Related Conflicts within or between Regions
- ☐ Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- ☑ Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- ☑ Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- ☐ Agricultural Lands Stewardship
- ☐ Agricultural Water Use Efficiency
- ☐ Conjunctive Management and Groundwater Storage
- ☐ Conveyance - Delta, Regional/Local
- ☐ Desalination - Brackish & Seawater
- ☐ Drinking Water Treatment and Distribution
- ☑ Economic Incentives
- ☑ Ecosystem Restoration
- ☐ Flood Risk Management
- ☐ Forest Management
- ☑ Groundwater/Aquifer Remediation
- ☑ Land Use Planning & Management
- ☐ Matching Water Quality to Water Use
- ☑ Pollution Prevention
- ☐ Precipitation Enhancement
- ☐ Recharge Areas Protection
- ☑ Recycled Municipal Water
- ☑ Salt & Salinity Management
- ☐ Surface Storage - CALFED
- ☐ Surface Storage - Regional/Local
- ☐ System Reoperation
- ☑ Urban Runoff Management
- ☐ Urban Water Use Efficiency
- ☐ Water Transfers
- ☐ Water-Dependent Recreation
- ☑ Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)

Project Name:	City of Santa Clarita Biofiltration and Low Impact Development Retrofits
Project Sponsor (Required):	City of Santa Clarita
If Joint Project, Other Partners:	
Project Website (if available):	

Project Contact Person:	Phone	FAX	Email
Heather Merenda	661-284-1413	661-255-4356	hmerenda@santa-clarita.com

Project Description

Project Description (1 -2 sentences):
Project would identify and retrofit neighborhoods and parking lots with biofiltration or low impact development.

Project Integration (Describe how the project does or could integrate with other projects in the Region):
Work with NPDES Permit holders, TMDL compliance, and projects related to poor street drainage and root damaged sidewalks

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
NPDES Permit for Los Angeles County, EPA Green Streets

Project Location

Descriptive (Description of property location etc.):
City of Santa Clarita sub drainage areas determined to have high levels of bacteria, nutrients, trash and other pollutants in runoff a

Latitude/Longitude - info available at:	http://geocoder.us/	Lat:		Long:	

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

		<$100K	$100K - $1M	$1M - $10M	>$10M
Project Cost:		☐	☐	☑	☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐

Estimated Year of Construction: 2014

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)	☑ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or	10,000	Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				

Other: *(Describe X amount of benefit)*

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [x] Increase Water Supply
- [x] Improve Water Quality
- [ ] Promote Resource Stewardship
- [x] Flooding/Hydromodification
- [x] Climate Change Adaptation
- [ ] Climate Change Prevention

Project Benefits

- [x] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [x] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [x] Flood Risk Management
- [ ] Forest Management
- [x] Groundwater/Aquifer Remediation
- [x] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [x] Pollution Prevention
- [ ] Precipitation Enhancement
- [x] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [x] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
Project Identification Short Form

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Updated information is in **BLUE** text.

General Information (Required)

Project Name:	Upper Santa Clara River Arundo/Tamarisk Removal Program (SCARP) Implementation
Project Sponsor (Required):	City of Santa Clarita
If Joint Project, Other Partners:	Forest Service, Santa Clara River Conservancy
Project Website (if available):	

Project Contact Person:	Phone	FAX	Email
Heather Merenda	661-284-1413	661-255-4356	hmerenda@santa-clarita.com

Project Description

Project Description (1 -2 sentences):
The SCARP implementation project will focus on removal of non-native invasive species, primarily arundo, from the sites identified

Project Integration (Describe how the project does or could integrate with other projects in the Region):
The Santa Clara River Invasive Weeds Task Force helps coordinate invasive species projects throughout the watershed

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):
Santa Clara River Watershed Arundo and Tamarisk Removal Plan Long Term Implementation Plan

Project Location

Descriptive (Description of property location etc.):
The entire upper Santa Clara River Watershed is part of the work. However, the more recent work is two fold – one area is the City

Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34° 25' N		Long: 118° 32' W	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):				
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☐	In-Design ☐	Ready for Construction ☑	CEQA Complete ☑
Estimated Year of Construction:	2006 started			

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☑ 100-1000AF	☐ 1000+ AF
Water Quality Area Drained: and/or	20 miles	Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*	1500 acres restored		
Other: *(Describe X amount of benefit)*			

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [x] Increase Water Supply
- [x] Improve Water Quality
- [x] Promote Resource Stewardship
- [x] Flooding/Hydromodification
- [x] Climate Change Adaptation
- [x] Climate Change Prevention

Project Benefits

- [x] Include Regional Projects or Programs
- [x] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [x] Ecosystem Restoration
- [x] Flood Risk Management
- [x] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [x] Pollution Prevention
- [ ] Precipitation Enhancement
- [x] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [x] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [ ] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)			
Project Name:	Linking SCEEC to the Upper Santa Clara River IRWMP		
Project Sponsor (Required):	Santa Clarita Environmental Education Consortium (SCEEC)		
If Joint Project, Other Partners:			
Project Website (if available):			
Project Contact Person:	Phone	FAX	Email
Jia-Yi Cheng-Levine, Ph.D.	661-362-5806		Jia-Yi.Cheng-Levine@canyons.edu

Project Description
Project Description (1 -2 sentences):
The mission of SCEEC is to proactively provide educational resources to promote environmental literacy in Santa Clarita valley. It aims to establish environmental resources for educators and students; create and provide exemplary supplementary curriculum; as well as contribute to the revitalization of K-14 students' love for environmental science. Funding is being sought to link implementation of the goals and objectives of IRWMP with the mission of SCEEC. One of the ways this could be done is to engage students in in-field studies that would directly relate to the IRWMP objectives; benefiting both the student, and the IRWMP.
Project Integration (Describe how the project does or could integrate with other projects in the Region):
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

Project Location					
Descriptive (Description of property location etc.):					
Santa Clarita Valley					
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					

Project Benefits				
Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*				
Other: *(Describe X amount of benefit)*				

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [x] Improve Water Quality
- [x] Promote Resource Stewardship
- [x] Flooding/Hydromodification
- [x] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [x] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	GIS Development and Implementation				
Project Sponsor (Required):	Santa Clarita Water Division				
If Joint Project, Other Partners:	NA				
Project Website (if available):	NA				
Project Contact Person:	Phone	FAX	Email		
Cathy Z. Hollomon	661-259-2737	661-286-4330	chollomon@scwater.org		
Project Description					
Project Description (1 -2 sentences):					
Develop a compreshensive GIS system within the service area. This includes software, data collection, data input and integration with SCADA.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This project is consistent with CALFED Bay Delta Program Goals #1 and #2, goals identified in the Santa Clarita Valley Water Use Efficiency Plan and the SCWD Conservation Strategic Plan.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
This project is included in SCWD's Capital Improvement Plan.					
Project Location					
Descriptive (Description of property location etc.):					
This project is located in Los Angeles County, specifically within the eastern half of the Santa Clarita Valley. It would cover an area of approximately 35 square miles.					
Latitude/Longitude - info available at: http://geocoder.us/		Lat: 34° 17' 28.6"		Long: 118° 22' 24.7"	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☑	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:	present until complete (around 2015)				
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)			☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality		Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					
This project will provide SCWD the tools necessary to efficiently manage water suppies, improve operational effectiveness, maintain accurate asset records and allow interaction/sharing of spatial data with other agencies for improved watershed management and coordinated actions during emergency situations.					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [ ] Reduce Potable Water Demand
- [x] Increase Water Supply
- [x] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [x] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [x] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [ ] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [x] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)

Project Name:	Advanced Metering Infrastructure Program
Project Sponsor (Required):	Santa Clarita Water Division
If Joint Project, Other Partners:	NA
Project Website (if available):	NA

Project Contact Person:	Phone	FAX	Email
Cathy Z. Hollomon	661-259-2737	661-286-4330	chollomon@scwater.org

Project Description

Project Description (1 -2 sentences):

Develop an advanced metering infrastructure (AMI) system within service area. This system will allow SCWD to collect real-time water demand data from customer metersa nd provide the tools the both SCWD nad its customers to identify and repoarit leaks and better manage water supplies.

Project Integration (Describe how the project does or could integrate with other projects in the Region):

This project is consistent with the CALFED Bay Delta Program Goals #1, 2, 3 and 4 and goals identified in the Santa Clarita Valley Water Use Efficiency Plan.

Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):

This project is included in SCWD's Capitol Improvement Plan.

Project Location

Descriptive (Description of property location etc.):

This project is located in Los Angeles County, specifically within eastern half of the Santa Clarita Valley. It would cover an area of apprpoximately 35 square miles.

Latitude/Longitude - info available at: http://geocoder.us/	Lat: 34 17 28.6	Long: 118 22 24.7

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☐	In-Design ☑	Ready for Construction ☑	CEQA Complete ☐
Estimated Year of Construction:	2013 through 2015				

Project Benefits

Water Supply: *New Supply Created (AFY)* (Check one)	☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality — Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*			

Other: *(Describe X amount of benefit)*

This project will reduce the amount of water lost to leaks and result in better dry-year reliability. By providing real-time water consumption data to all customers, water use efficiency will increase, reducing overall demand for imported water sources and helping to maintain a sustainable groundwater supply.

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [x] Increase Water Supply
- [ ] Improve Water Quality
- [x] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [x] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	CII Conservation Plan				
Project Sponsor (Required):	Valencia Water Company				
If Joint Project, Other Partners:	NA				
Project Website (if available):	NA				
Project Contact Person:	Phone	FAX	Email		
Matt Dickens	661-295-6543		mdickens@valenciawater.com		
Project Description					
Project Description (1 -2 sentences):					
This project is the development of VWC's Commercial, Industrial, and Institutional (CII) Conservation Plan.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This project could integrate with the Valleywide Conservation Database.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Project Location					
Descriptive (Description of property location etc.):					
Santa Clarita Valley					
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)			☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality		Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
- [ ] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [x] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
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CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [x] Economic Incentives
- [ ] Ecosystem Restoration
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INTEGRATED REGIONAL WATER MANAGEMENT PLAN
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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Advanced Metering Infrastructure Program				
Project Sponsor (Required):	Valencia Water Company				
If Joint Project, Other Partners:	NA				
Project Website (if available):	NA				
Project Contact Person:	Phone	FAX	Email		
Matt Dickens, Chris Perez	661-295-6543		mdickens@valenciawater.com, cperez@valenc		
Project Description					
Project Description (1 -2 sentences):					
Develop an advanced metering infrastructure (AMI) system within the districts' service areas. This system will allow VWC to collect real-time water demand data from customer meters. The system will give customers current usage data and allow VWC to be proactive with leak detection.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This project is consistent with the CALFED Bay Delta Program Goals #1, 2, 3 and 4 and goals identified in the Santa Clarita Valley Water Use Efficiency Plan.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Santa Clarita Valley Water Use Efficiency Plan.					
Project Location					
Descriptive (Description of property location etc.):					
This project is located in Valencia, Los Angeles County.					
Latitude/Longitude - info available at: http://geocoder.us/	Lat:		Long:		
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☐	$1M - $10M ☑	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)		☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF	
Water Quality	Area Drained: and/or		Volume Treated:		
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					
This project will reduce the amount of water lost to leaks and result in better dry-year reliability. By providing real-time water consumption data to all customers, water use efficiency will increase, reducing overall demand for imported water sources and helping to maintain a sustainable groundwater supply.					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [x] Increase Water Supply
- [ ] Improve Water Quality
- [x] Promote Resource Stewardship
- [ ] Flooding/Hydromodification
- [ ] Adapt to climate change
- [x] Reduce greenhouse gas emissions

Project Benefits

- [ ] Include Regional Projects or Programs
- [ ] Effectively Integrate Water Management Programs and Projects within a Hydrologic Region Identified in the CA Water Plan; the RWQCB Region or Subdivision; or Other Region or Sub-Region Specifically Identified by DWR
- [ ] Effectively Resolve Significant Water-Related Conflicts within or between Regions
- [x] Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program
- [ ] Address Critical Water Supply or Water Quality Needs of Disadvantaged Communities within the Region
- [ ] Effectively Integrate Water Management with Land Use Planning

CA Water Plan - Water Management Strategies

- [ ] Agricultural Lands Stewardship
- [ ] Agricultural Water Use Efficiency
- [ ] Conjunctive Management and Groundwater Storage
- [ ] Conveyance - Delta, Regional/Local
- [ ] Desalination - Brackish & Seawater
- [ ] Drinking Water Treatment and Distribution
- [ ] Economic Incentives
- [ ] Ecosystem Restoration
- [ ] Flood Risk Management
- [ ] Forest Management
- [ ] Groundwater/Aquifer Remediation
- [ ] Land Use Planning & Management
- [ ] Matching Water Quality to Water Use
- [ ] Pollution Prevention
- [ ] Precipitation Enhancement
- [ ] Recharge Areas Protection
- [ ] Recycled Municipal Water
- [ ] Salt & Salinity Management
- [ ] Surface Storage - CALFED
- [ ] Surface Storage - Regional/Local
- [ ] System Reoperation
- [x] Urban Runoff Management
- [x] Urban Water Use Efficiency
- [ ] Water Transfers
- [ ] Water-Dependent Recreation
- [ ] Watershed Management

UPPER SANTA CLARA WATERSHED
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
Project Identification Short Form

Note: This two page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWMP. More information may be required at a later date. This form may be printed, filled out by hand and mailed back to Meredith Clement, Kennedy/Jenks Consultants, 2775 North Ventura Road, Oxnard, CA 93036 **OR** electronically filled out and e-mailed **BY AUGUST 17, 2012** to: MeredithClement@kennedyjenks.com.

Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Valleywide Conservation Database				
Project Sponsor (Required):	Valencia Water Company				
If Joint Project, Other Partners:	NA				
Project Website (if available):	NA				
Project Contact Person:	Phone	FAX	Email		
Matt Dickens	661-295-6543		mdickens@valenciawater.com		
Project Description					
Project Description (1 -2 sentences):					
Develop a valleywide conservation database, similar to the Energy Star program, which would catalog all of the specific consumption uses for differing building types.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
This project could integrate with the Regional High Resolution GIS Mapping project.					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Project Location					
Descriptive (Description of property location etc.):					
Santa Clarita Valley					
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☑	$100K - $1M ☐	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)			☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
Water Quality		Area Drained: and/or		Volume Treated:	
Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
Other: *(Describe X amount of benefit)*					

Project Criteria

Please review the project against the Statewide Priorities, Program Preferences, and Water Plan Management Strategies and place a check in the box if the project meets the criteria.

IRWMP Objectives Met

- [x] Reduce Potable Water Demand
- [ ] Increase Water Supply
- [ ] Improve Water Quality
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- [ ] Flooding/Hydromodification
- [x] Adapt to climate change
- [ ] Reduce greenhouse gas emissions

Project Benefits

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Updated information is in **BLUE** text.

General Information (Required)					
Project Name:	Regional High Resolution GIS Mapping				
Project Sponsor (Required):	Valencia Water Company				
If Joint Project, Other Partners:	NA				
Project Website (if available):	NA				
Project Contact Person:	Phone	FAX	Email		
Matt Dickens	661-295-6543		mdickens@valenciawater.com		
Project Description					
Project Description (1 -2 sentences):					
Develop a regional high resolution Geographic Information System (GIS) asset management mapping tool for the Santa Clarita Valley.					
Project Integration (Describe how the project does or could integrate with other projects in the Region):					
Project Source (Cite Plan(s) to which the project belongs [e.g., Watershed Master Plans, Capital Improvement Plans]):					
Project Location					
Descriptive (Description of property location etc.):					
Santa Clarita Valley					
Latitude/Longitude - info available at: http://geocoder.us/		Lat:		Long:	
Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):					
Project Cost:		<$100K ☐	$100K - $1M ☑	$1M - $10M ☐	>$10M ☐
Project Status (Check all that apply):		Conceptual ☑	In-Design ☐	Ready for Construction ☐	CEQA Complete ☐
Estimated Year of Construction:					
Project Benefits					
Water Supply: *New Supply Created (AFY)* (Check one)			☐ 1-100 AF	☐ 100-1000AF	☐ 1000+ AF
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Public Access, Open Space, Habitat, Recreation (*acres created/restored):*					
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Project Criteria

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IRWMP Objectives Met

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