

# One Water Plan

## *An Integrated Water Resources Master Plan*

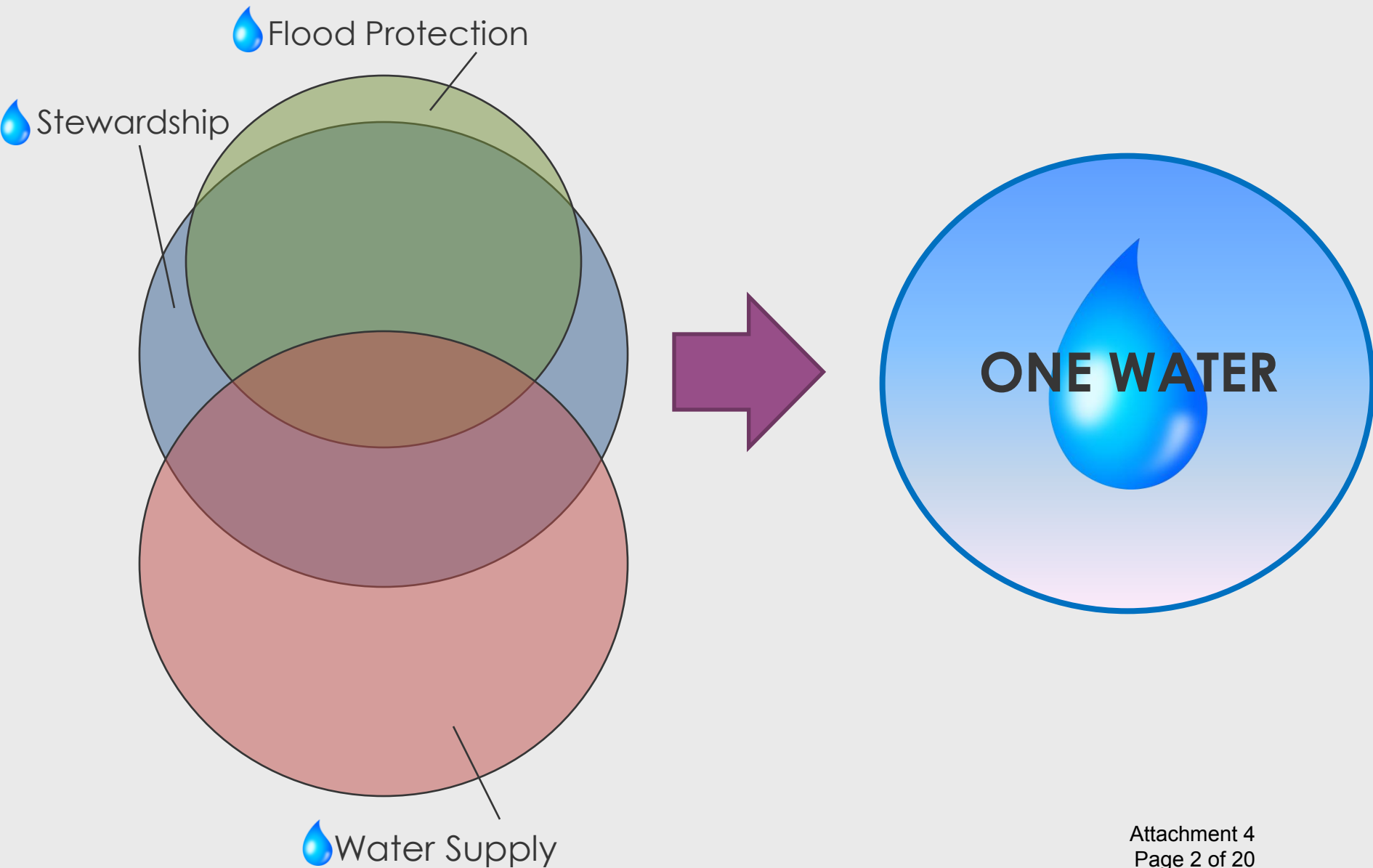
September 13, 2016



Santa Clara Valley  
Water District

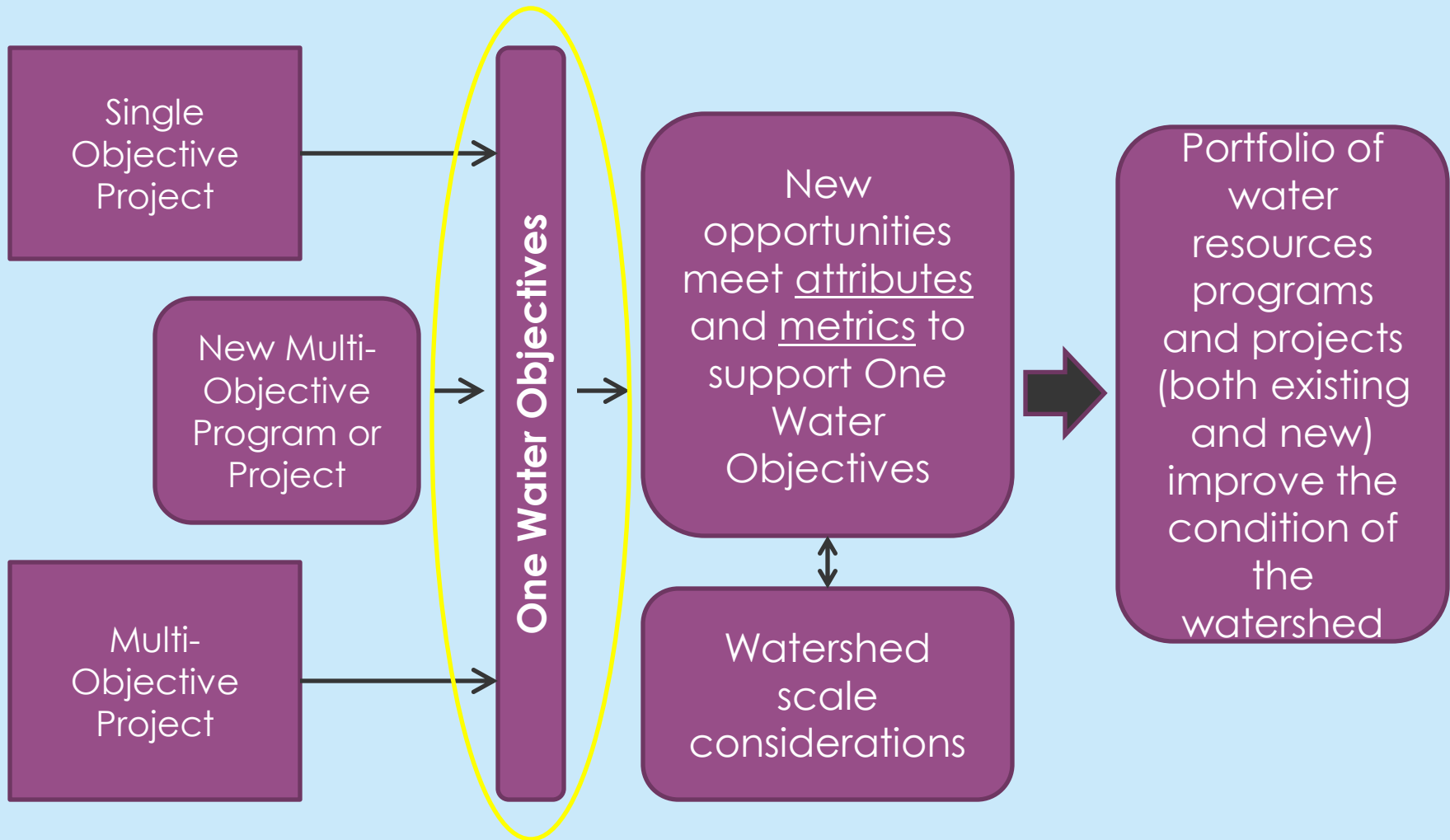


# Management of Water for Many Uses



# Why do this Master Plan? Improved Conditions

## Updated 'One Water' Process



# Why do this Master Plan? Prioritized Opportunities

Prioritized projects and stakeholder engagement for:

External grant funding  
(ex: Prop 1)

Provide focus for existing  
Safe, Clean Water funding  
(ex: D2, D3)

Possible future funding  
measures

# One Water's Tiered Approach

## One Water (Integrated Water Resources Master Plan)

### TIER I

Countywide Overview

### TIER II

Coyote  
Watershed

Guadalupe  
Watershed

West Valley  
Watershed

Lower  
Peninsula  
Watershed

Uvas/Llagas  
Watershed

Prioritized Projects

Funding sources, schedule and plan

# Countywide Report

## Purpose of Countywide Report:

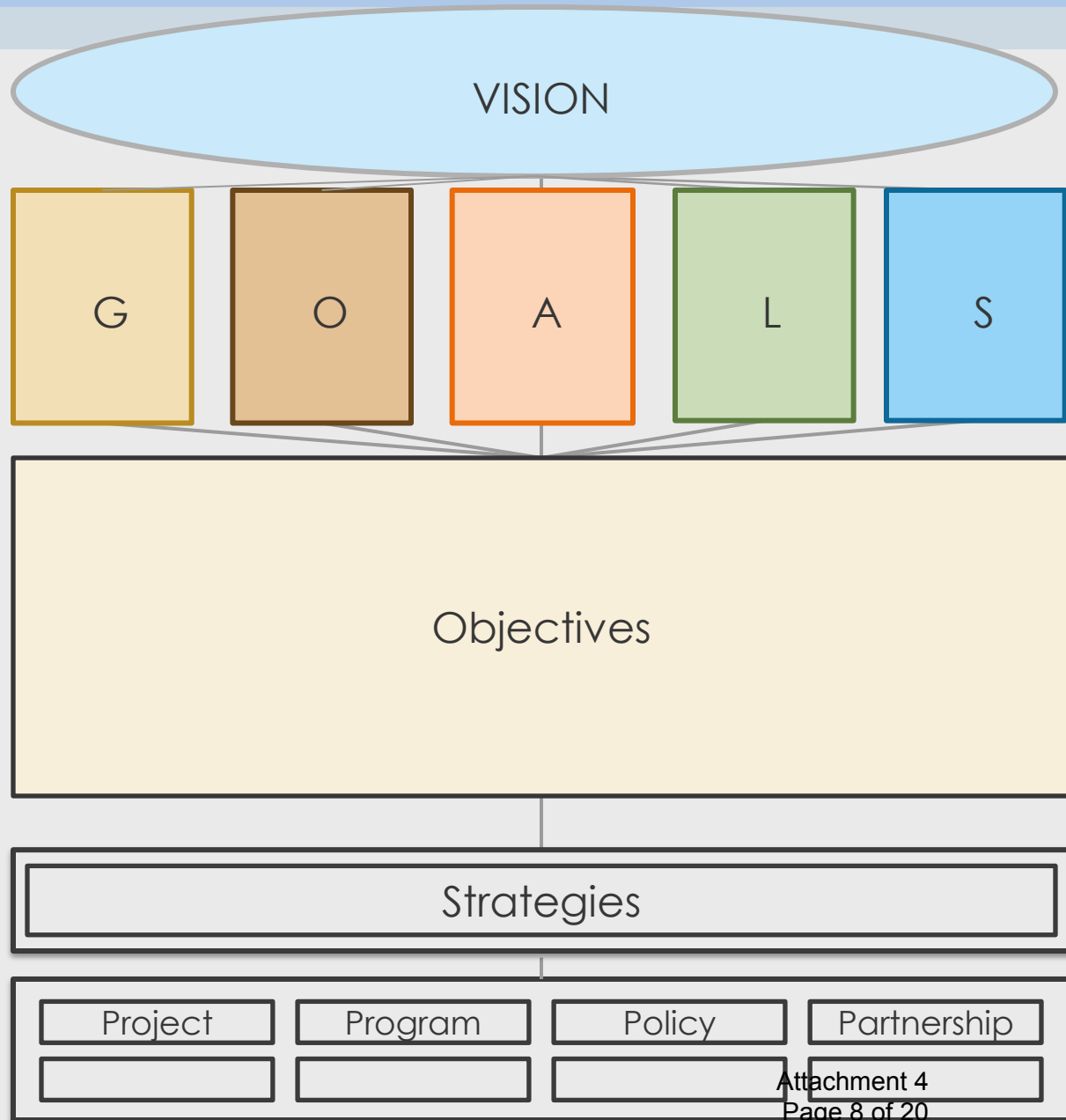
- Provide historical and current conditions of water resource related disciplines in Santa Clara County
- Provide framework (goals, objectives, strategies) for future watershed-specific plans
- Recommend opportunities (programs, projects, policies) appropriate at the countywide scale

# Countywide Report - Table of Contents

- ▶ Chapter 1: Introduction
- ▶ Chapter 2: Past Conditions
- ▶ Chapter 3: Present Conditions
- ▶ Chapter 4: Future Conditions
- ▶ Chapter 5: Framework
- ▶ Chapter 6: Meeting the Objectives
- ▶ Chapter 7: Implementation Plan
- ▶ Appendices

# Chapter 5: Framework

- 5.1 Vision
- 5.2 Integrated Goals
- 5.3 Objectives
- 5.4 Strategies





# Vision

## 5.1 Vision

The District manages  
water resources  
holistically and sustainably  
to benefit people and the environment  
in a way that is informed by  
community values.

# Goals

## 5.2 Integrated Goals

### **1. Valued and Respected Rain**

Manage rainwater to improve flood protection, water supply, and ecosystem health

### **2. Healthful & Reliable Water**

Enhance the quantity and quality of water to support beneficial uses

### **3. Ecologically Sustainable Streams & Watersheds**

Protect, enhance and sustain healthy and resilient stream ecosystems

### **4. Resilient Baylands**

Protect, enhance and sustain healthy and resilient baylands ecosystems and infrastructure

### **5. Community Collaboration**

Work in partnership with an engaged community to champion wise decisions on water resources

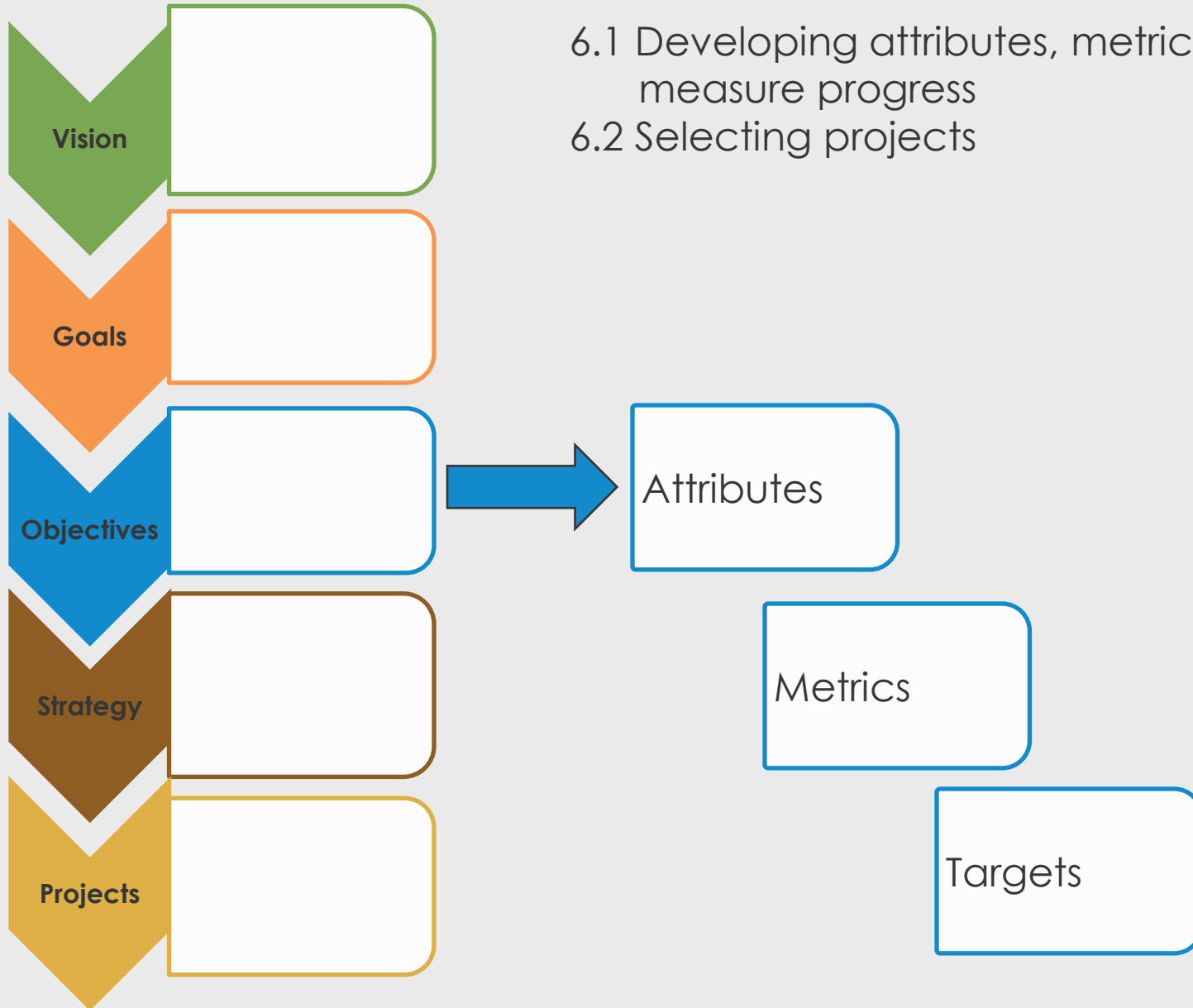
# Objectives

## 5.3 Objectives

	<b>OBJECTIVES*</b>
A	Reliable Current and Future Water Supply for Urban, Rural, Agricultural, and Environmental Needs
B	Sustainable Groundwater Subbasins
C	High Quality Surface Water and Groundwater
D	Reliable and Effective Flood Risk Reduction Using an Integrated Approach
E	Expanded and Protected Buffer Lands Adjacent to Water Bodies
F	Stream Flows Support Natural Processes
G	Resilient Habitats and Resources for Native Species
H	Adapt to and Prepare for Climate Change
I	Anticipate and Prepare for Emergencies
J	Active and Ongoing Community and Tribal Engagement

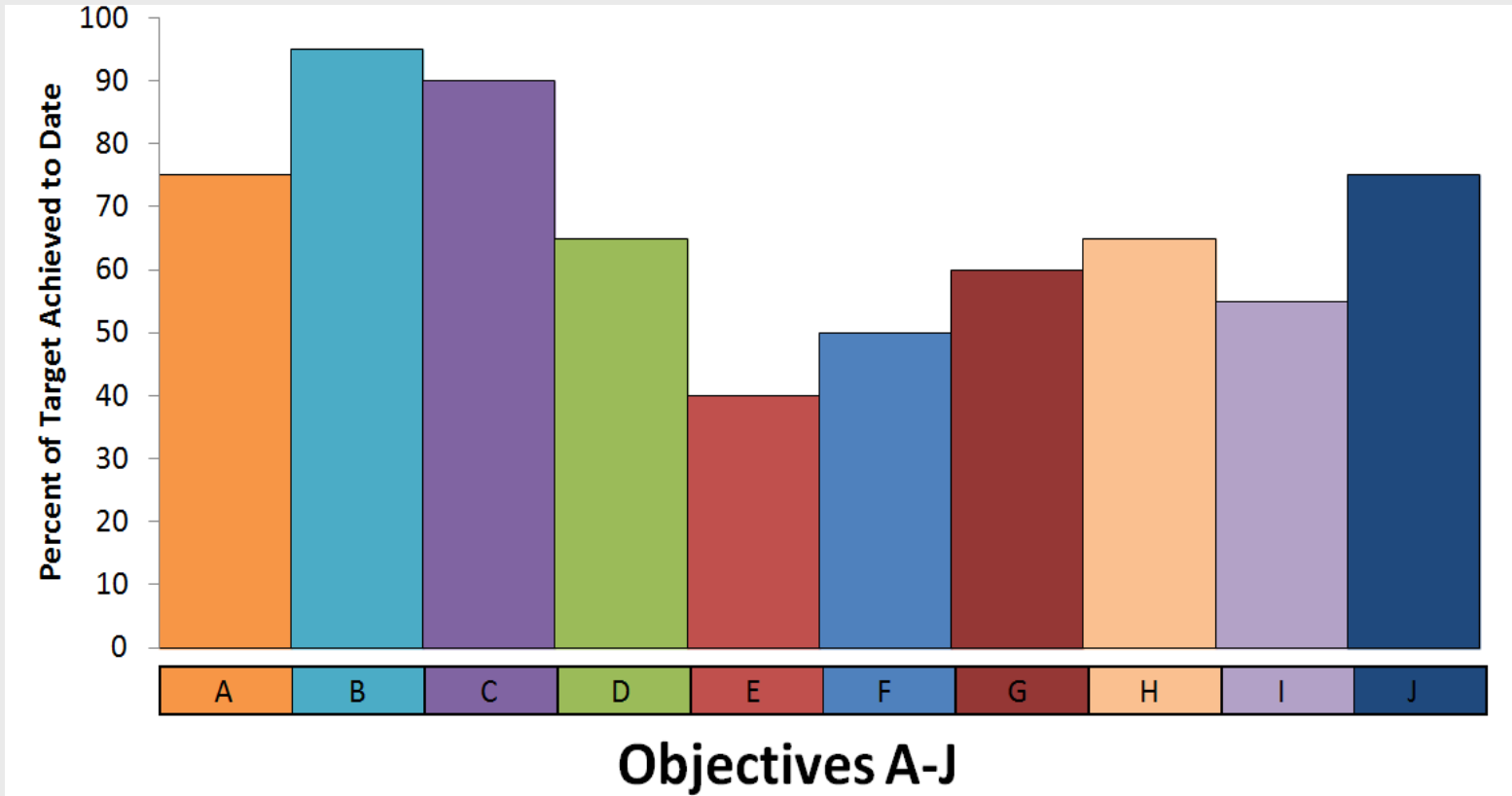
\* Order of objectives does not indicate order by priority.

# Chapter 6: Meeting the Objectives



6.1 Developing attributes, metrics and targets to measure progress  
6.2 Selecting projects

# 10 Objectives




# Chapter 7: Implementation Plan

1	Protect land to meet the objectives of the One Water Plan
2	Recommend policy for near-water recreation opportunities on District fee property and guidelines for best management practices on non-District property
3	Develop and implement Stormwater Resource Plan
4	Recommend guidelines for water quality and other beneficial uses to guide District regarding homeless encampments near waterways
5	Develop a systemic, watershed-(and sediment-shed) based approach to sediment and vegetation management in creeks, reservoirs, and Bay
6	Develop reference creek channel types for select reaches within select creeks
7	Continue to partner on South Bay Salt Pond Restoration Project
8	Continue coordinated effort on the Shoreline Study
9	Update the "Guidelines and Standards for Land Use Near Streams (2007)"
10	Expand invasive plant removal program
11	Hazard tree abatement program

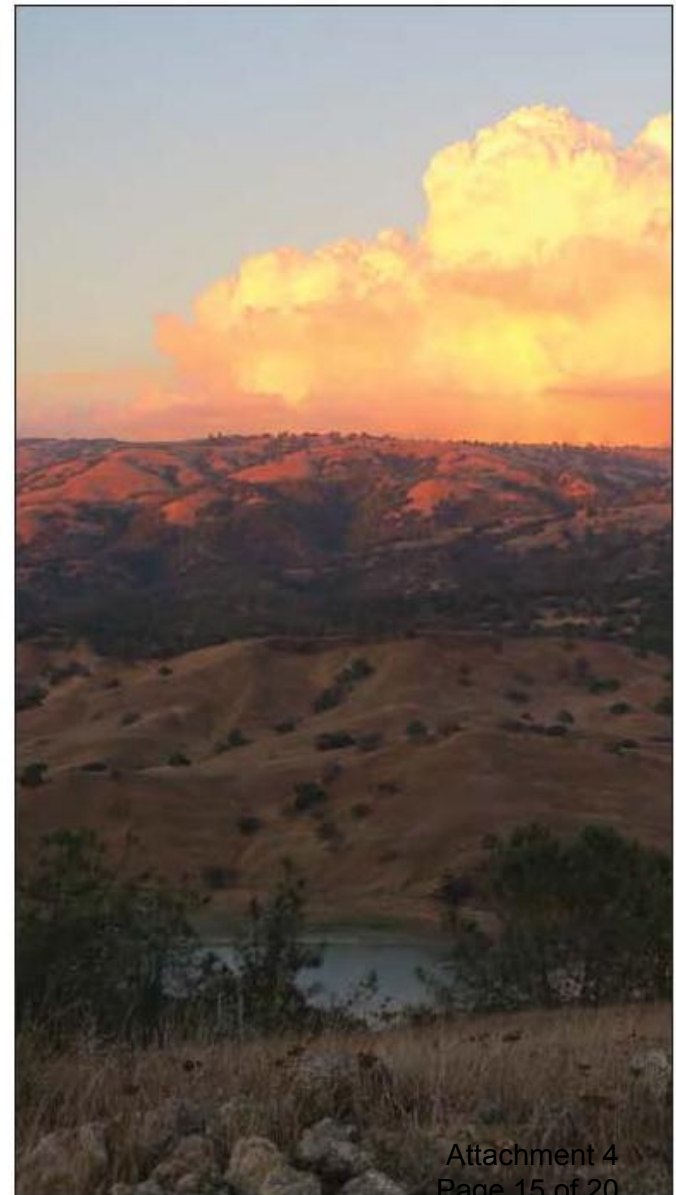
# Opportunity 1

## OPPORTUNITY 1: Protect Land to Meet the Objectives of the One Water Plan

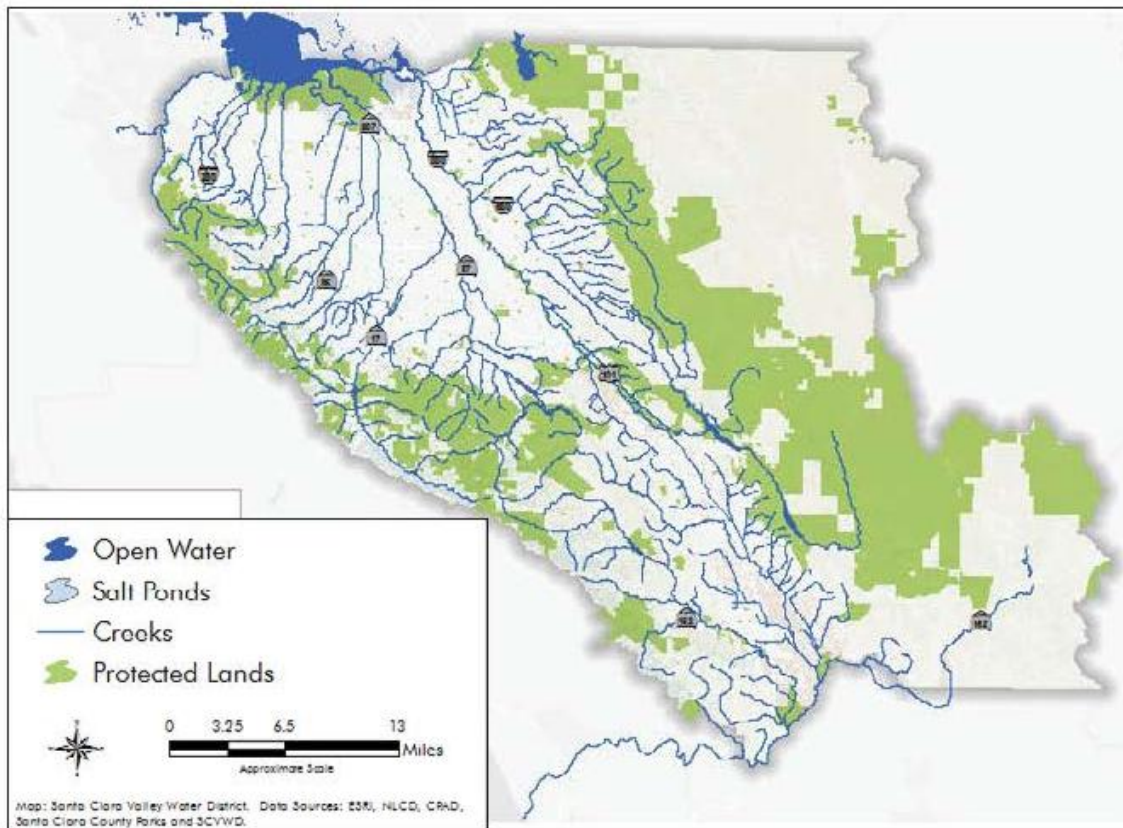
<b>Geographic Area</b>	Countywide
<b>Project Focus</b>	Near water bodies
<b>Primary Objectives</b>	C, D, E, G 
<b>Secondary Objectives</b>	A, B, F, H, I, J
<b>District Role</b>	P, C, T
<b>Potential or Current Partners</b>	County, Open Space Districts, SFPUC, TNC, VHA

### PROJECT 1 SUPPORTS

- |                   |   |
|-------------------|---|
| <b>Goals</b>      | <ul style="list-style-type: none"> <li>♦ Valued and Respected Rain</li> <li>♦ Healthful and Reliable Water</li> <li>♦ Ecologically Sustainable Streams and Watersheds</li> </ul>  |
| <b>Objectives</b> | <ul style="list-style-type: none"> <li>♦ High Quality Surface Water and Groundwater</li> <li>♦ Reliable and Effective Flood Risk Reduction Using an Integrated Approach</li> <li>♦ Expanded and Protected Buffer Lands Adjacent to Water Bodies</li> <li>♦ Resilient Habitats and Resources for Native Species</li> </ul>   |
| <b>Strategy</b>   | <ul style="list-style-type: none"> <li>♦ Actively engage land-use agencies to develop and implement policies that protect and conserve water resources</li> </ul>   |
| <b>Attributes</b> | <ul style="list-style-type: none"> <li>♦ Protect, maintain and develop local surface water supplies</li> <li>♦ People and structures at low risk of flooding from high flows overtopping banks (creek and tidal)</li> <li>♦ Riparian areas bordering channels, wetlands, lakes, and reservoirs throughout the county that provide "desired" functions and services over the short- and long-term</li> </ul> |



# Opportunity 1



## Project 1 Overview

This opportunity is focused on acquiring available land as determined appropriate, for comprehensive water resources management and flood protection for all beneficial uses. This opportunity has several related components, namely updating District Board policies for land acquisition; developing a prioritization method to identify high-priority potential opportunities; analyzing buffer width requirements for various purposes (e.g., flood risk reduction, natural recharge and infiltration, and water resources-related habitat suitability); and acquiring or protecting land as it becomes available. Actions under this opportunity will also update the District's post-disaster land acquisition policy; the update will ensure that acquisition priorities are in place before any natural or man-made disaster.

### Benefits

Proactive approach to watershed protection

### Project Components

Identify general geographic areas of property need based on objectives

Identify specific properties and their ownership, land use, and adjacent land use

Prioritize and recommend properties for protection or acquisition if and when they become available

### Potential Funding

Safe Clean Water D7 Funds


### Budget and Projected Timeline

TBD, due to opportunistic nature of the project



# Opportunity 3

## OPPORTUNITY 3: Develop and Implement a Stormwater Resource Plan

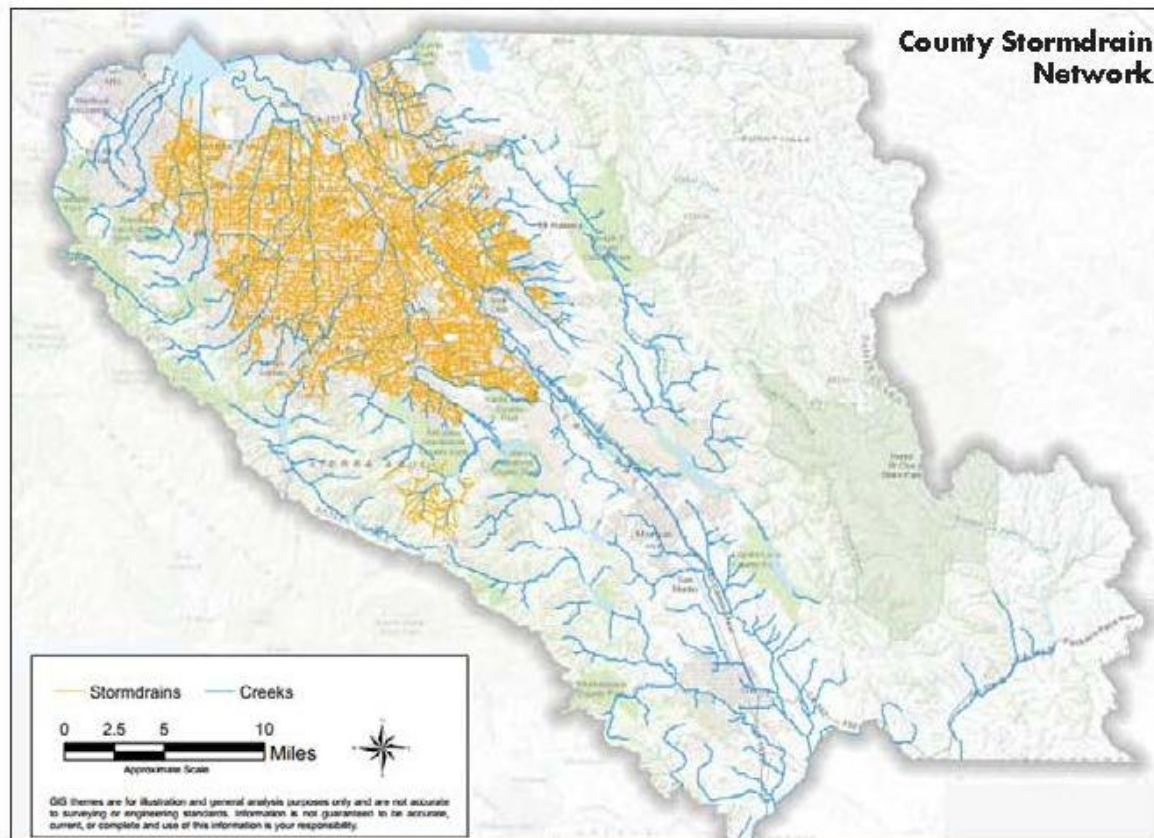
<b>Geographic Area</b>	Countywide
<b>Project Focus</b>	All Watersheds
<b>Primary Objectives</b>	A, C, D 
<b>Secondary Objectives</b>	B, F, H, J
<b>District Role</b>	C
<b>Potential or Current Partners</b>	Municipalities, open space districts

### PROJECT 3 SUPPORTS

<b>Goals</b>	<ul style="list-style-type: none"> <li>♦ Healthful and Reliable Water</li> <li>♦ Ecologically Sustainable Streams and Watersheds</li> </ul>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>♦ Reliable Current and Future Water Supply for Urban, Rural, Agricultural, and Environmental Needs</li> <li>♦ High Quality Surface Water and Groundwater</li> <li>♦ Reliable and Effective Flood Risk Reduction Using an Integrated Approach</li> </ul>
<b>Strategy</b>	<ul style="list-style-type: none"> <li>♦ Work with stormwater programs to expand best management practices and pollution prevention programs</li> <li>♦ Develop and disseminate adequate data and tools for integrated water resource management</li> <li>♦ Develop watershed-based stormwater management, such as watershed-based implementation of structural measures associated with LID and green infrastructure</li> </ul>
<b>Attributes</b>	<ul style="list-style-type: none"> <li>♦ Protect, maintain and develop local surface water supplies and imported water supplies</li> <li>♦ Surface waters — including reservoir, creek, and bay waters — support healthy aquatic ecosystems and human health (i.e., Beneficial Uses)</li> <li>♦ People and structures at low risk of flooding from high flows overtopping banks (creek and tidal)</li> </ul>



# Opportunity 3



## Project 3 Overview

This opportunity is to participate in creating a Stormwater Resource Plan (SWRP) for Santa Clara Basin within Santa Clara County. The objective of the plan is to manage stormwater on a broad scale in partnership with Santa Clara County and the 13 cities in northern Santa Clara County. This SWRP would include developing approaches to meet RWQCB Municipal Regional Permit requirements, as well as satisfy the requirement to have SWRP apply for related California Prop 1 funding. The planning process would also evaluate opportunities to improve water supply reliability. The SWRP would include green infrastructure and low impact development considerations, including analysis of potential rainwater capture and reuse sites and other on-site management techniques. The District could also partner with Morgan Hill and Gilroy on additional stormwater resource planning in the future.

<b>Benefits</b>	Stormwater management to reduce sedimentation and bank erosion Stormwater management to reduce flood risk Stormwater management to improve water quality Stormwater capture to augment water supply
<b>Project Components</b>	Identify existing and pending stormwater regulations and requirements for District and partners Identify components of a SWRP Identify and prioritize sites for stormwater retention/LID/green infrastructure Implement stormwater improvements
<b>Potential Funding</b>	SCW Priority B, Proposition 1 grant
<b>Budget and Projected Timeline</b>	TBD

# Next Steps

1. Receive and incorporate direction from the Board
2. Incorporate identified opportunities from the Board
3. Finalize attributes and metrics for the countywide report
4. Refine recommendations to the Board from the identified countywide opportunities
5. Continue stakeholder engagement and development of the Coyote watershed-specific report

QUESTIONS?