



SCV
WATER

Water Resilience Initiative

Water Resources and Watershed Committee
February 10, 2021
Item No. 2

Water Resilience Initiative: January's Briefing

- Initiated dialogue regarding water supply resiliency and watershed stewardship
- Reviewed current related activities
- Explained drivers behind initiative
- Reviewed initial ideas for strategies and approaches
- Solicited Committee's input and questions



Water Resilience Initiative: Today's Briefing

- Review
 - Initiative drivers
 - Initial strategies and approaches
 - Proposed elements and expenditures
- Discussion

What is Water Resilience?

- A reliable water supply that can adapt and respond to changes, such as:
 - More extreme droughts and floods
 - Rising temperatures
 - Changing regulatory requirements
 - Natural disasters/risks and other challenges
- Actions to ensure safe and resilient water supplies and healthy waterways for our communities, economy and environment

Drivers for Water Resilience Initiative

- SCV Water Strategic Plan
- Santa Clara River Stewardship Objectives
- California Water Resiliency Portfolio
- Managing Uncertainties/Risks in Changing Environment
- Protect and Enhance Environmental Qualities
- Advance Water Use Efficiency
- Investments in Projects/Programs



Upcoming Decisions on Investments in Reliability

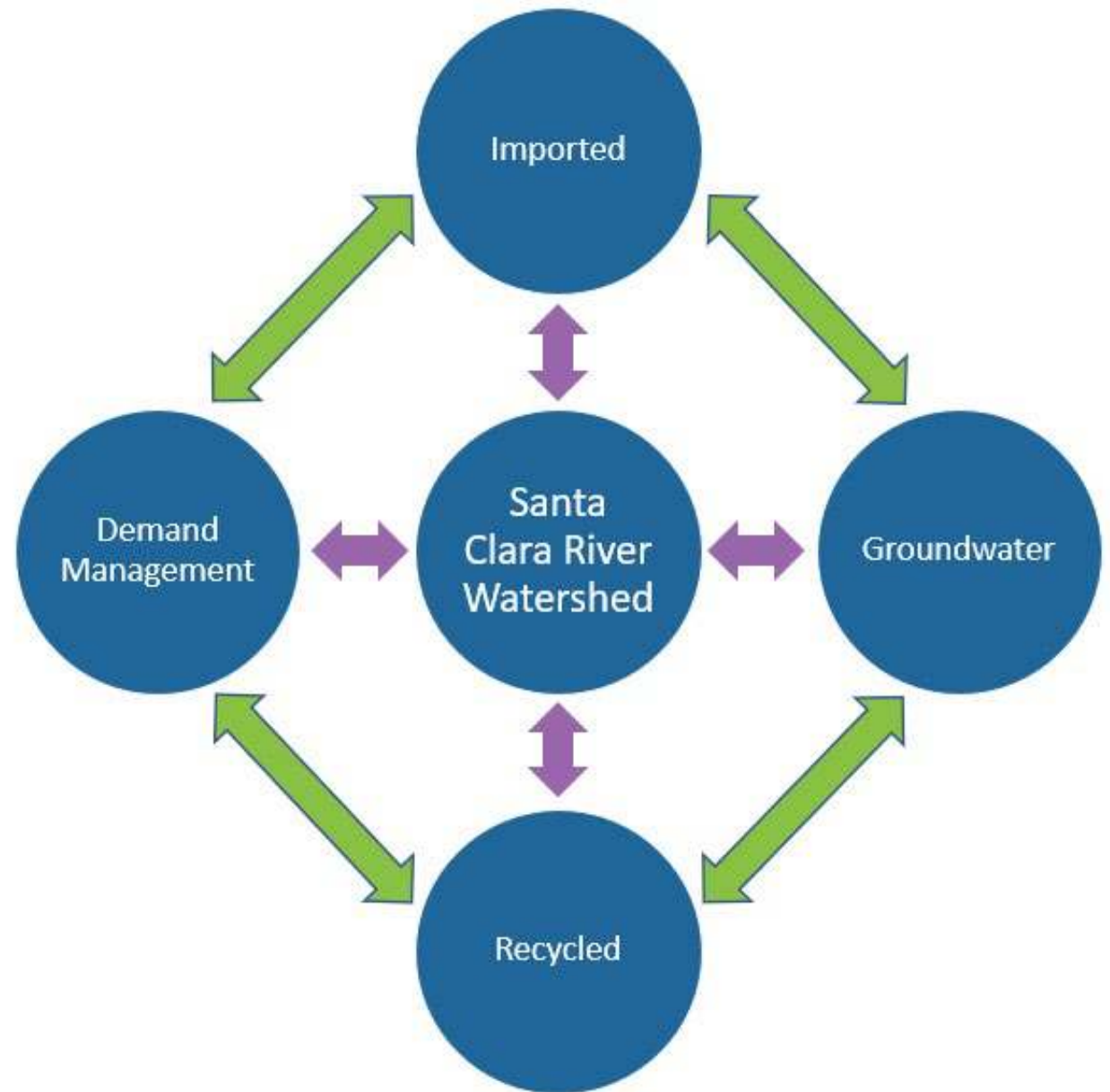
- Imported Water
 - Delta Conveyance
- Local Water
 - Potential Groundwater Operating Plan Revisions
 - Recycled Water
 - Demand Management/Conservation
- Dry Year Supplies
 - Sites Reservoir
 - Antelope Valley-East Kern Water Agency (AVEK) Water Bank
 - Aquaterra Water Bank (McMullin GSA in Fresno County)
 - Saugus Groundwater



Resilience Initiative Strategies

- Build knowledge base to support sound decisions
- Improve modeling capabilities
- Conduct integrated analysis
 - Protect watershed and river systems
 - Optimize local groundwater use and storage
 - Support new infrastructure and ecosystem investments
- Expand stakeholder and community outreach and engagement

Watershed Interconnectivity



Environmental & Watershed Commitment

- SCV Water is a unified agency committed to a balanced approach integrating:
 - Best-in-class water resource management through efficient, sustainable, and cost-effective improvements in acquisition, treatment and distribution of surface and ground water
 - Environmental systems and resource protection in the Santa Clara River watershed
 - Water supplies and environment to ensure drinking water meets all water quality requirements

Environmental Integration



Environmental Integration

Description	Cost (\$1,000)	FY 21/22	FY 22/23	FY 23/24
Functional Flow Analysis	\$80			
Habitat Characterization - Desk Top Analyses	\$40			
Habitat Condition Assessment and Data Collection	\$160			
Habitat Suitability Model	\$200			
Total	\$480	\$250	\$180	\$50

Water Resources Integration



Water Resources Integration

Description	Cost (\$1,000)	FY 21/22	FY 22/23	FY 23/24
Resource Mgmt. Modeling Development				
- Portfolio Module	\$260			
- Economic Analysis Module	\$40			
Alternative Analysis/ Prioritization	\$40			
Total	\$340	\$260	\$80	

Surface Water and Groundwater Management



Surface Water and Groundwater Management

Description	Cost (\$1,000)	FY 21/22	FY 22/23	FY 23/24
Surface Water Modeling	\$100			
Enhanced SW Monitoring	\$80			
Groundwater Monitoring - Aquifer Testing	\$560			
Surface Water/Groundwater Integrated Analysis	\$240			
Groundwater Operating Plan Update	\$240			
Total	\$1,220	\$280	\$640	\$300



Stakeholder and Community Engagement



Stakeholder and Community Engagement

Description	Cost (\$1,000)	FY 21/22	FY 22/23	FY 23/24
Stakeholder Facilitation and Public/Customer Outreach	\$360			
Coordination with Federal, State, and Local Agencies	\$120			
Total	\$480	\$160	\$160	\$160



Resource Master Planning



Resource Master Planning

Description	Cost (\$1,000)	FY 21/22	FY 22/23	FY 23/24
Planning and Policy Alignments	\$180			
Strategic and Legal Services	\$600			
Master Planning and CEQA Efforts	\$600			
Total	\$1,380	\$260	\$260	\$860



Total Estimated Budget

Description	Cost (\$1,000)	FY 21/22	FY 22/23	FY 23/24
Integration/Analysis - Environmental	\$480			
Integration/Analysis - Water Resources	\$340			
Surface Water and Groundwater Mgmt.	\$1,220			
Communications and Engagement	\$480			
Resource Master Planning	\$1,380			
Total	\$3,900	\$1,210	\$1,320	\$1,370

Discussion

Next Steps

- **March**
 - Continue dialogue with Committee
 - Based on feedback and advanced analysis, present revised work plan
 - Solicit input and questions
- **April**
 - Present final work plan for approval
 - Incorporate plan and budget into FY 2021/22 and FY 2022/23 budgets
 - Identify elements and costs for next 5 years