

Timeline:

Major Milestone	Month 0	3	6	9	Month 12	15	18	21	Month 24	27	30	33	Month 36	39	42	45
Finalize Contracts			complete													
Construction																
Monitoring																

18. Finnon Lake Dam Reconstruction Project

Primary Applicant: Georgetown Divide RCD

Budget: total: \$637,000; requested: \$275,000

Project Location: South Fork American River Watershed

Finnon Lake is in a degraded state. Water levels maintained below the mandated 50 acre-foot level degrade aquatic and upland habitats and reduce the available water storage capacity for combating wildfires. Reconstruction of the Finnion Lake Dam and restoration of Finnion Lake to its original capacity of 350 acre-feet will enhance watershed values including aquatic habitat for fish and other biological organisms, recreational uses (fishing, boating, swimming, hiking, and camping), and upland habitat. In addition, restoration of Finnion Lake is also important for sustaining downstream wetlands, and providing a reliable water source for combating wildfires. This project involves the removal and replacement of the existing dam with a new embankment at the same location, and of the same size, so that the lake can carry its original capacity.

Resource Area Addressed: Water Supply

CABY Strategies Addressed: Environmental Restoration and Preservation, Mercury and Other Contamination, Wetland Enhancement and Creation, Water Supply Reliability

CABY Goals Addressed:

- ◆ Provide multiple benefits from management of water resources, diversions and infrastructure
- ◆ Manage sediment for water resources, infrastructure and habitat value
- ◆ Achieve sustainable surface and ground water supply
- ◆ Reduce impacts from catastrophic fire

CABY Objectives Addressed:

- ◆ Improve storage capacity.
- ◆ Protect and restore riparian, wetland, and seasonally flooded habitats
- ◆ Evaluate and modify water infrastructure to improve efficiency
- ◆ Maintain and promote recreational and environmental values associated with water infrastructure

Coordination with Other CABY Projects:

- Measuring Impacts (SYRCL)

Coordination with Other CABY Organizations:

- El Dorado County RCD
- Mosquito Volunteer Fire Department
- El Dorado County
- EID
- USDA-NRCS
- USFS – El Dorado National Forest

Project Status: A large percentage of the funding has been gained through in-kind and community efforts. The project cannot go forward without full funding, however, and so awaits full funding.

Timeline:

Major Milestone	Month 0	3	6	9	Month 12	15	18	21	Month 24	27	30	33	Month 36	39	42	45
CEQA and permitting	complete															
Planning and design	complete															
Contracts	complete															
Construction																
Wetlands rehabilitation																
Monitoring																

19. Wolf Creek Parkway Demonstration Projects

Primary Applicant: Wolf Creek Community Alliance

Budget: total: \$62,825; requested: \$41,025

Project Location: Yuba River Watershed

Wolf Creek is a stream under pressure of development, which is occurring in many of the foothill communities in the CABY region. This project proposes to protect some of the less impacted areas along the creek and to restore selected high-impact areas. Wolf Creek Community Alliance (WCCA) will implement demonstration projects along the proposed Wolf Creek Parkway with the primary goal of creating an educational tool for the promotion of riparian stewardship. WCCA has identified six reaches of the creek and its tributaries to install protective and/or restorative demonstration projects. Each reach will include educational signage. Components to this project include: watershed education, restoration and non-point source pollution control along approximately four miles of creek, storm water BMPs, and increased creek access.

Resource Area Addressed: Water Quality

CABY Goals Addressed:

- ◆ Protect and improve fisheries and aquatic biota through water resources management
- ◆ Protect and improve watershed resources through land use practices
- ◆ Manage sediment for water resources, infrastructure and habitat value
- ◆ Reduce contamination of surface and ground water resources

CABY Objectives Addressed:

- ◆ Implement measures to manage and reduce erosion and sedimentation
- ◆ Protect, restore, and enhance beneficial sediment transport processes
- ◆ Manage recreation to minimize impacts to watershed resources
- ◆ Implement measures to manage and reduce contamination of waterways
- ◆ Protect and restore riparian, wetland, and seasonally flooded habitats
- ◆ Promote comprehensive land use planning
- ◆ Minimize impervious surface cover and improve infiltration
- ◆ Conserve and restore native species and diverse habitats
- ◆ Evaluate and minimize negative flood impacts on water infrastructure and water quality.

Coordination with Other CABY Projects:

- Tribute Trail Bridge (FODC)
- Measuring Impact (SYRCL)

Resource Area	Project	Rank	Notes
Water Supply	The Heat is On: Climate Change, Water Supply, and Aquatic Habitat in the CABY Region	1	
	Protecting the Headwaters: Groundwater Sources and Mountain Meadows	3	
	Regional Water System Reliability and Conservation Project	9	
	Evapotranspiration Rates Measures in the Cosumnes, American, Bear, and Yuba River Watersheds	11	
	Conservation and Increased Agricultural Water Use Efficiency	22	
	Recycled Water Infrastructure Expansion	Project in development	
	Groundwater Response to Climate Variation	21	
	Finnon Lake Dam Reconstruction Project	18	
	Junior High School Water Efficient Landscape Education Program	Project in development	
	Outingdale Water System Improvements Project	Project in development	
	The Regional Wastewater/Recycled Water Development Project	Project in development	
Water Quality	Abandoned Mines Lands Assessment	2	
	The Bear River Project: A Comprehensive Approach to Reducing the Legacy Mercury Contamination in Sierra Nevada Watersheds	5	
	Measuring Impact Project	6	
	Agricultural Stewardship Project	10	(regulatory)
	Riparian Conservation Area Evaluation and Dump Cleanup	13	
	Colfax Waste Water Treatment Plant	15	(regulatory)
	Upper Lakes Project	23	
	Water-Resources Data Network Evaluation	Project in development	
Land Use	Addressing Sediment Issues in the CABY Region	4	
	Tribute Trail Bridge	14	
	North Fork Yuba River Fire Ecology/Assessment Project	20	
Environment and Habitat	Flow Augmentation: Assessing Needs and Implementing Strategies in the CABY Region	7	
	Placer and Nevada County Fish Passage Improvement and Habitat Restoration	8	
	Bridging Schools and Communities	24	
	Hangtown Creek Restoration	12	
	Sly Park Restoration	25	
	Caples Spillway Channel Stabilization	16	(FERC project)
	Esmerelda Creek Restoration	17	(FERC project)
	Wolf Creek Parkway Demonstration Projects	19	

Table 10.2. CABY IRWMP Implementation Projects by Resource Area

PROJECT	CABY IRWMP GOALS									Number of goals addressed by project.
	1 Protect and improve fisheries and aquatic biota through water resources management.	2 Provide multiple benefits from management of water resources, diversions and infrastructure.	3 Protect and improve watershed resources through land use practices.	4 Manage sediment for water resources, infrastructure and habitat value.	5 Achieve sustainable surface and ground water supply.	6 Reduce contamination of surface and ground water resources.	7 Reduce mercury contamination in waterways.	8 Reduce impacts from catastrophic fire.	9 Protect infrastructure, equipment, and property from flooding.	
Conservation and Increased Agricultural Water Use Efficiency in the CABY Watersheds	X	X	X	X	X	X				6
Evapotranspiration Rates Measured in the CABY Watersheds	X	X	X	X	X	X				6
Outingdale Water System Improvements Project	X	X		X	X	X	X		X	7
Regional Water System Reliability and Conservation Project		X		X	X	X			X	5
Abandoned Mine Lands Assessment in the CABY Watersheds	X		X	X	X	X	X			6
The Bear River Project: A Comprehensive Approach to Reducing the Legacy Mercury Contamination in Sierra Nevada Watersheds	X	X	X	X	X	X	X			7
Water Resources Data Network Evaluation for the CABY Watersheds		X								1
Junior High School Water Education Program		X	X							2
Addressing Sediment Issues in the CABY Region	X		X	X		X	X			5
Esmerelda Creek Restoration	X	X	X	X		X				5
Caples Spillway Channel Stabilization	X	X	X	X		X				5
Protecting the Headwaters: Groundwater Sources and Mountain Meadows	X	X		X	X					4
Flow Augmentation: Assessing Needs and Implementing Strategies in CABY	X	X		X		X	X			5
North Fork Yuba River Fire Ecology/Assessment Project								X		1
Finnon Lake Dam Reconstruction Project		X		X	X			X		4
The Heat is On: Climate Change, Water Supply, and Aquatic Habitat in the CABY Region	X	X		X	X				X	5
Wolf Creek Parkway Demonstration Projects	X		X	X		X				4
EID Recycled Water Infrastructure Expansion	X	X			X	X		X		5
Groundwater Response to Climate Variation	X	X			X	X				4
Riparian Conservation Area Evaluation and Dump Cleanup in the CABY Watersheds	X					X				2
Regional Wastewater/Recycled Water Development Project	X	X			X					3
Measuring Impact: Citizen-Based Water Quality Data Collection, Analysis, Management, and Coordination	X			X		X				3
CABY Region Placer and Nevada County Fish Passage Improvement and Habitat Restoration Project	X	X		X		X	X			5
Tribute Trail Bridge	X		X		X					3
Sly Park Creek Corridor Restoration		X	X	X						3
Upper Lakes Project					X					2
Ag Stewardship Project	X			X	X		X			4
Bridging Schools and Communities			X			X		X		3
Colfax Wastewater Treatment Plant Upgrade	X	X			X		X			4
Hangtown Creek Restoration		X				X			X	3
Total number of times goal is addressed:	21	20	12	18	16	18	8	4	4	

Table 10.3. CABY IRWMP Implementation projects and CABY IRWMP Goals Matrix

PROJECT	CABY IRWMP OBJECTIVES																										
	1 Meet and/or exceed RWQCB standards	2 Implement measures to manage and reduce contamination of waterways	3 Improve storage capacity	4 Work collaboratively to restore state designated impaired water bodies (303(d))	5 Support forest management practices that benefit water resources	6 Protect, restore, and enhance beneficial sediment transport processes	7 Manage recreation to minimize impacts to watershed resources	8 Manage rivers, tributaries, and infrastructure to provide flow regimes that benefit ecosystem function	9 Implement measures to manage and reduce erosion and sedimentation	10 Reduce levels of methylated mercury	11 Protect and restore riparian, wetland, and seasonally flooded habitats	12 Increase knowledge of groundwater systems and groundwater management practices	13 Protect and restore connectivity of floodplains, stream channels, and groundwater	14 Promote comprehensive land use planning	15 Manage water infrastructure to optimize instream temperatures	16 Reduce degradation and optimize benefits resulting from inter-basin transfers of water	17 Optimize efficient use, conservation, and recycling of water resources	18 Identify and promote strategies for hydroelectric facilities to provide multiple benefits	19 Evaluate and modify water infrastructure to improve efficiency	20 Minimize impervious surface cover and improve infiltration	21 Conserve and restore native species and diverse habitats	22 Sustain agricultural viability through effective water management	23 Investigate effects of drought and climate change and need for water management strategies	24 Maintain and promote recreational and environmental values associated with water infrastructure	25 Promote community and regional storm water management plans	26 Evaluate and minimize negative flood impacts on water infrastructure and water quality	Total number of objectives addressed by each project
Conservation and Increased Agricultural Water Use Efficiency in the CABY Watersheds	X	X				X		X								X											6
Evapotranspiration Rates Measured in the CABY Watersheds	X	X						X								X											5
Outingdale Water System Improvements Project		X				X	X			X	X	X				X		X									11
Regional Water System Reliability and Conservation Project							X	X								X		X									7
Abandoned Mine Lands Assessment in the CABY Watersheds	X	X		X	X	X		X	X	X			X								X						11
The Bear River Project: A Comprehensive Approach to Reducing the Legacy Mercury Contamination in Sierra Nevada Watersheds	X	X	X	X		X		X	X	X											X	X					12
Water Resources Data Network Evaluation for the CABY Watersheds		X									X															X	3
Junior High School Water Education Program													X														1
Addressing Sediment Issues in the CABY Region	X	X		X	X	X		X	X				X						X					X	X		12
Esméralda Creek Restoration	X	X				X		X	X	X			X					X			X	X		X			11
Caples Spillway Channel Stabilization	X	X				X		X	X	X			X					X			X			X			10
Protecting the Headwaters: Groundwater Sources and Mountain Meadows			X		X	X		X	X	X	X	X									X						10
Flow Augmentation: Assessing Needs and Implementing Strategies in the CABY Region	X	X		X		X			X	X					X		X				X			X			12
North Fork Yuba River Fire Ecology/Assessment Project					X																						1
Finnon Lake Dam Reconstruction Project			X							X									X								4
The Heat is On: Climate Change, Water Supply, and Aquatic Habitat in the CABY Region																						X					1
Wolf Creek Parkway Demonstration Projects		X				X	X	X		X			X							X	X					X	9
EID Recycled Water Infrastructure Expansion	X	X	X	X			X							X			X		X		X			X			10
Groundwater Response to Climate Variation											X						X						X				3
Riparian Conservation Area Evaluation and Dump Cleanup in the CABY Watersheds	X	X		X	X					X		X								X	X						8
Regional Wastewater/Recycled Water Development Project	X	X	X	X			X			X				X	X	X			X			X			X		12
Measuring Impact: Citizen-Based Water Quality Data Collection, Analysis, Management, and Coordination	X	X		X	X	X		X		X			X	X							X						11
CABY Region Placer and Nevada County Fish Passage Improvement and Habitat Restoration Project		X				X		X	X	X			X	X	X					X	X				X		12
Tribute Trail Bridge	X	X		X		X	X	X	X	X		X									X				X		11
Sly Park Creek Corridor Restoration		X			X		X			X					X		X							X			7
Upper Lakes Project					X		X	X												X							4
Ag Stewardship Project		X	X					X					X												X		5
Bridging Schools and Communities		X		X		X		X	X							X								X			8
Colfax Wastewater Treatment Plant Upgrade	X	X		X												X			X					X			6
Hangtown Creek Restoration		X					X			X		X							X	X	X			X	X		9
Total number of times objective is addressed:	14	22	6	11	8	14	6	11	16	8	15	4	8	7	4	4	8	4	7	6	13	8	4	15	3	6	

Table 10.4. CABY IRWMP Implementation Projects and CABY IRWMP Objectives Matrix