Table 7-1: Priority Actions for the Coyote Creek Watershed

	Priority Action	Description	Objective(s)	Implementation Timeframe*	Benefits	Cost
A	Anderson Dam Seismic Retrofit Project	Restore reservoir water supply capacity	A, C, D	CURRENT	Restore reservoir to full capacity for water supply storage, additional benefits downstream for flood protection, natural ecosystems, and groundwater recharge.	$654M
B	Coyote Creek Flood Protection Project	Protect parcels from 20 year flood risk on Coyote Creek between Montague Expressway and Tully Road.	C	CURRENT	To reduce the risk of flooding to homes, schools, businesses, and transportation infrastructure from Montague Expressway to Tully Road, from an approximately 20-year flood event under current channel and floodplain conditions.	$80.785M
C	Singleton Road Improvements for Fish Passage and Trail Connectivity (Completed 2021)	Improve the Singleton Road crossing in partnership with City of San José to remediate the fish passage barrier and replace crossing with free-span bridge for trail connection.	D	CURRENT	Opens 6 miles stream access above Singleton Road Trails and recreation	$1.2 to 1.4M
D	Lower Penitencia Flood Protection Project	Protect parcels from flood risk on Lower Penitencia Creek from approximately one mile from its confluence with Coyote Creek (downstream) to San Andreas Drive (upstream) in Milpitas	C	CURRENT	Convey the Lower Berryessa Creek 1-percent design flow. Minimize the need for seasonal removal of sediment and non-woody vegetation. Ensure the improvements meet FEMA certification requirements.	$16-$21M
E	Lower Calera Creek portion of the Lower Berryessa Creek Flood Protection Project Phase 2	Protect parcels from flood risk on Lower Calera Creek from Lower Berryessa Creek confluence (downstream end) to the drop structure just upstream of Arizona Avenue (upstream end).	C	CURRENT	To reduce the risk of flooding to homes, schools, businesses, and transportation infrastructure from confluence with Lower Berryessa Creek to Arizona Ave drop structure.	$20.8M (construction)
F	Upper Penitencia Flood Protection Project – Coyote Confluence up to Hwy 680	Protect parcels from flood risk on Upper Penitencia Creek between Coyote Creek confluence and Hwy 680.	C, D	CURRENT	100-year flood protection for 1,700 parcels, including new Berryessa BART station and proposed Urban Village at the flea Market.	$24M
G	Separate Ogier Ponds from Coyote Creek to improve fish passage and water quality	Conduct planning study in collaboration with Santa Clara County Parks to separate the ponds and creek, thereby removing an impediment to fish passage and improving creek water quality.	B, D	SHORT TERM	Remove impediments to passage for adult steelhead migrating upstream and juvenile steelhead accessing the Cold Water Management Zone (CWMZ) downstream of Anderson Dam.	$12 to 52M
H	Metcalf Ponds Fish Passage Improvement Study	Conduct study evaluating the feasibility of various approaches for remedying fish passage impediments at the Coyote Percolation Pond and Dam while maintaining Valley Water's ongoing managed aquifer recharge operations at the site.	A, D	SHORT TERM	Remove impediments at the Coyote Percolation Pond and adjacent ponds to fish passage for adult steelhead migrating upstream and juvenile steelhead moving upstream to rearing habitat at CWMZ.	TBD
I	Invasive Plant Removal	Prioritize areas for invasive removal that contain populations of invasive plants near waterways. Consider areas in the upper watershed that contain populations of invasive plants near watercourses as they have high potential for seed and propagate dispersal downstream.	C, D	SHORT TERM	Habitat enhancement Restore flood capacity	Variable (depending on type, extent, and combinations of actions)
J	Enhance Riparian and Aquatic Habitat along Middle Coyote Creek	Improve habitat between Fisher Creek and Lower Silver Creek confluences, based on landowner willingness and using the Coyote Creek Native Ecosystem Enhancement Tool (CCNEET) for guidance. Priority actions include addition of in-channel features, removal of invasive species, trash removal, encampment remediation, widening and planting buffer areas, and installing green stormwater infrastructure, among other things.	B, D	SHORT TERM	Improved water quality; increased native species diversity and populations; improved fish passage; climate change resiliency; aesthetics	Variable (depending on type, extent, and combinations of actions)

**Implementation Timeframe (Current -funded, in design or construction); Short term (ST) (0 to 15 yrs); Long term (LT) (15 to 50 years)*

Table 7-1: Priority Actions for the Coyote Creek Watershed - CONTINUED

	Priority Action	Description	Objective(s)	Implementation Timeframe*	Benefits	Cost
K	Upper Penitencia Creek Flood Protection Project - Hwy 680 to Dorel Drive (+options for areas upstream of Alum Rock Park)	Protect parcels from flood risk on Upper Penitencia Creek between Hwy 680 and Dorel Drive.	C, D	SHORT TERM	100-year flood protection for 6,300 parcels.	$45M
L	Reduce Trash in Riparian Corridor	Prioritize areas for trash removal near waterways.	B, D	SHORT TERM	Improved water quality Reduced impact on natural ecosystems	Variable (depending on type, extent, and combinations of actions, and based on funding available in SCW)
M	Enhance Riparian and Aquatic Habitat along Upper Coyote Creek	Improve habitat between Anderson Dam and Fisher Creek confluence, based on landowner willingness and using the Coyote Creek Native Ecosystem Enhancement Tool (CCNEET) for guidance. Priority actions include addition of in-channel features, spawning gravels, and off-channel habitat to benefit native fish, among other things, that are consistent with the recreational land uses and plans in this area.	B, D	SHORT TERM	Improved water quality; increased native species diversity and populations; improved fish passage, rearing, and spawning; climate change resiliency; aesthetics	Variable (depending on type, extent, and combinations of actions)
N	Coyote Valley Protection, Enhancement and Restoration	Support the Coyote Valley Conservation Area Master Plan and other efforts for the evaluation and prioritization of multi-benefit actions in Coyote Valley in partnership with Santa Clara Valley Open Space Authority and other stakeholders. Potential actions include: Laguna seca wetland enhancement, foothills stormwater capture, wildlife corridor enhancements, Fisher Creek realignment and Fisher Creek floodplain expansion.	A, B, C, D, E	SHORT TERM	Habitat Enhancement Floodplain expansion Groundwater protection Trails and recreation Wildlife corridor expansion Stormwater capture Climate change mitigation	Variable (depending on type, extent, and combinations of actions)
O	Coyote Watershed Rangeland Management	Support the protection and management of grazing lands for water resource management benefits including water quality protection.	B,C,D	SHORT TERM	Water quality protection Floodplain preservation Habitat connectivity	Variable (depending on type, extent, and combinations of actions)
P	Manage Sediment at Lower Silver-Coyote Creek Confluence	Evaluate sediment removal and water quality benefits at Lower Silver Creek and Coyote Creek confluence and gravel augmentation of the deep pools	B,D	SHORT TERM	Flood risk reduction Reduced maintenance Water quality improvements from erosion Habitat enhancement for fisheries	TBD
Q	Thompson Creek Creek Stabilization	Conduct planning study to determine long term solutions to address creek stabilization and extensive recurring sediment removal	B,C	SHORT TERM	Improved stream water quality Reduced erosion Reduced maintenance	TBD
R	Rehabilitate flood reaches - Lower Silver/Thompson Creek Subwatershed	Conduct planning study on best way to maintain LOS and reduce business risk exposure on the following creeks: • North Babb Ck., d/s McCovey Lane, about 0.2 mi, concrete, 1961 • Norwood Ck. from confluence with Thompson/ Lower Silver u/s for about 2.5 mi, concrete, 1976	C	SHORT TERM	Flood risk reduction Reduced maintenance Tie into Asset Management and SCW F8	TBD

Table 7-1: Priority Actions for the Coyote Creek Watershed - CONTINUED

	Priority Action	Description	Objective(s)	Implementation Timeframe*	Benefits	Cost
S	Rehabilitate flood reaches - Lower Coyote Creek subwatershed	Conduct planning study on best way to maintain LOS and reduce business risk exposure on the following creeks: • Los Coches Ck. from Berryessa confluence for about 0.7 mile upstream (modified earth & concrete lined), 1958- 1965 • Sierra Ck./ Berryessa Ck. confluence. A Portion of Berryessa Ck. plus Sierra Ck. from confluence to Burgundy Dr., about 2.4 mi total, modified earth, 1967 • Piedmont Ck. from Dempsey Rd. to S. Temple Dr., about 0.6 mi, concrete, 1973 • Tularcitos Ck. from confluence w/ Berryessa u/s for about 0.9 mi, modified earth, 1970 • Coyote mainstream from Montague Expy to I-880, about 1.2 mi, modified earth, 1972 • Calera Ck. from Lower Penitencia Ck. confluence u/s to Escuela Pkwy, about 0.8 mi, modified earth and floodwalls/ levees, 1977	C	SHORT TERM	Flood risk reduction Reduced maintenance Tie into Asset Management and SCW F8	TBD
T	Rehabilitate flood reaches - Upper Silver Creek	Conduct planning study on best way to maintain LOS and reduce business risk exposure on the following creeks: • Upper Silver Ck. from Coyote Ck. confluence to Hwy 101, about 0.7 mi concrete, 1974 • Upper Silver Ck. from Hwy 101 u/s to Greenyard ST., about 0.5 mi, concrete, 1984	C	SHORT TERM	Flood risk reduction Reduced maintenance Tie into Asset Management and SCW F8	TBD
U	Green Stormwater Infrastructure for Communities	Support green stormwater infrastructure projects that benefit undeserved communities through stormwater resources plan implementation	A, B, C, D, E	SHORT TERM	Improved water quality Increased water conservation Reduced flood risk Climate change resilience	Variable (depending on type, extent, and combinations of actions)
V	Serpentine and Watershed Protection and Enhancement	Identify and preserve/enhance serpentine habitat and species	D	LONG TERM	Habitat enhancement	TBD
W	Wildlife Corridor Improvements	Identify and expand wildlife corridors (include smaller linkages and reducing physical barriers) at key culverts	D	LONG TERM	Habitat enhancement	Variable (depending on type, extent, and combinations of actions)
X	Lower Berryessa Creek Flood Protection Phase 3+ Tularcitos Creek and Upper Calera Creek	Complee flood risk reduction project on Lower Berryessa Creek, including Tularcitos Creek and Upper Calera Creek.	C	LONG TERM	Protects 1420 parcels from 1% flood. Improves maintenance access Reduced erosion improves water quality Trail opportunities for levees with City of Milpitas	$70.4M
Y	Coyote Meadows	Support preservation of Coyote Meadows as an urban open space area - riparian restoration/connection to neighboring open space/stormwater capture	B, D	LONG TERM	Habitat Enhancement Floodplain protection Stormwater capture Trails and recreation	TBD
Z	Upper Berryessa Creek Flood Protection (680 to Old Piedmont)	Complete flood risk reduction project on Upper Berryessa Creek from 680 to Old Piedmont Rd (outside of Army Corps project reach)	C	LONG TERM	Reduce flood risk upstream of HWY 680 to Old Piedmont Rd	TBD

Table 7-1: Priority Actions for the Coyote Creek Watershed - CONTINUED

	Priority Action	Description	Objective(s)	Implementation Timeframe*	Benefits	Cost
AA	Upper Coyote Flood Protection (u/s Fisher-Coyote Confluence)	Conduct planning study to determine flood risk reduction options on Upper Coyote Creek between Anderson Dam and Confluence of Fisher Creek-Coyote Creek	C	LONG TERM	Reduce flood risk between Anderson Dam and confluence of Coyote Creek and Fisher Creek	TBD
BB	Noble Diversion Removal	Conduct planning study to determine benefits of removing Noble Diversion along Upper Penitencia Creek	A,D	LONG TERM	Remove old structure no longer in use Potential habitat benefits or tie-in with Upper Penitencia Creek Flood Protection Project	TBD
CC	Coyote Reservoir Sediment Harvesting	Conduct feasibility study to determine feasibility of harevesting sediment from Coyote Reservoir for use in other parts of the watershed	B,C,D	LONG TERM	Potential sediment source for the baylands Potential gravel source for stream habitat	TBD

**Implementation Timeframe (Current -funded, in design or construction); Short term (ST) (0 to 15 yrs); Long term (LT) (15 to 50 years)*

FIGURE 7.1: ONE WATER COYOTE CREEK WATERSHED PRIORITY ACTION ITEMS