

**TABLE 2-4
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
Reach 1				
R.1-1	Altamont Creek Improvements	To create a system of regional trails and provide connectivity between existing trails.	<ul style="list-style-type: none"> • Construct a trail from Broadmoor Street to Vasco Road. • Construct a multi-purpose trail from Laughlin Road to Brushy Peak/Del Valle Trail. The project includes acquisition of 1.4 acres for the trail component. • Conduct sediment management activities including constructing a 0.5 acre-feet (AF) sediment basin in Altamont Creek. Acquire 0.5 acres for the sediment basin. Sediment would be removed along Altamont Creek to restore the channel capacity. Create 1.2 acres of wetlands as environmental mitigation for sediment management activities. 	<ul style="list-style-type: none"> • Trails, Recreation, and Public Education • Erosion and Sedimentation • Water Quality • Habitat and Environment
R.1-2	Alkali Sink Management	To protect and enhance habitat in the preserve.	<ul style="list-style-type: none"> • Dedicate 100 feet of buffer around the Springtown Natural Community Reserve • Construct a regulated gate or adjustable weir to divert a portion of Altamont Creek flood flows into the Springtown Natural Community Preserve. • Install additional educational signage/kiosk regarding the preservation of the bird's beak habitat. • Conduct vegetation management activities including invasive species control along 2,500 feet of both banks of Altamont Creek. 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Habitat and Environment • Trails, Recreation, and Public Education

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.1-3	Springtown Improvements	To curtail aggradation of Altamont Creek by trapping sediment loads from upstream in a sediment basin. Decrease potential for flooding in the vicinity of Bluebell Bridge during a 100-year flood event.	<ul style="list-style-type: none"> • Construct a 2.75 AF sediment basin in Altamont Creek just downstream of the Bluebell Drive Bridge. • Create approximately 1.4 acres of wetlands as environmental mitigation for creation of sediment basin. • Modify bridge at Bluebell Drive crossing to increase sediment conveyance at bridge crossing and reduce the potential for flooding. • Conduct vegetation management activities including invasive species control along 1,000 feet of Altamont Creek. 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment
R.1-4	Springtown Golf Course Improvements	To implement improvements to protect the Springtown Golf Course from flooding during a 100-year flood event.	<ul style="list-style-type: none"> • Create a low-flow meandering channel on Arroyo las Positas to enhance habitat for special-status species. • Conduct vegetation management activities (recurring), including invasive species control and riparian vegetation planting at Arroyo las Positas for 2,500 feet. • Replace double culvert barrel at Arroyo las Positas crossing with pedestrian bridge at Springtown Golf Course. • Conduct in-stream vegetation management including invasive species control, over 1.21 acres upstream of Bluebell Drive. Includes acquisition of 1.6 acres of stream for vegetation management. 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Habitat and Environment

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.1-5	Arroyo las Positas Habitat Enhancement and Recreation Project	To create a system of regional trails and enhance upland and riparian habitat along Arroyo las Positas.	<ul style="list-style-type: none"> • Implement trail enhancement projects including construction of 0.8 miles of trail parallel to Arroyo las Positas, one pedestrian bridge across Arroyo Seco, and modification of I-580 pedestrian crossing at Las Colinas Road. Acquire 1.9 acres of land for trail. • Enhance 2.8 acres of riparian corridor by filling gaps in riparian vegetation using alkali plant elements in addition to classic riparian vegetation. Project includes acquisition of 2.8 acres for vegetation management. • Implement habitat enhancement projects including offline seasonal ponds to create habitat for the California red-legged frog and California tiger salamander. Specific measures will be implemented to limit mosquito breeding in seasonal ponds. Install fencing along project perimeter to exclude cattle from the 1-acre pond and improve success of restoration efforts. Acquire 1 acre of land for pond and buffer area. • Construct bio-technical bank stabilization utilizing methods such as live cribwalls, live fascines, brush mattresses, or joint plantings. Project includes acquisition of 1.7 acres of land for bank stabilization. 	<ul style="list-style-type: none"> • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.1-6	Arroyo las Positas Multi-Purpose Project	To address in-stream and bank erosion along Arroyo las Positas. Create wetland to protect and enhance water quality, and habitat, and provide connectivity between existing trail sections along Arroyo las Positas.	<ul style="list-style-type: none"> Stabilize channel banks by constructing bio-technical bank protection including dormant post plantings along Arroyo las Positas and constructing a grade control structure such as a rock vane at STA 330+00. Construct 4,000 feet of multi-use trail along Arroyo las Positas from North Livermore Avenue to Las Colinas Road (proposed trail in R.1-6). The trail will include one road crossing at North Livermore Avenue. Project includes acquisition of 1.8 acres of land for trail. Construct wetlands, including wetlands west of North Livermore Avenue (approximately 20 acres). Wetlands include land acquisition, excavation, and riparian plantings. Construct interpretive kiosk and approximately 3,000 feet of boardwalk. 	<ul style="list-style-type: none"> Erosion and Sedimentation Water Quality Habitat and Environment Trails, Recreation, and Public Education
R.1-7	Capacity Improvement at Arroyo las Positas	To increase the channel capacity of an undersized 500-foot reach of Arroyo las Positas so that it equals the capacity of the reach immediately west of Vasco Road. Link the existing trail along Lobelia Way to the trail running along the north bank of Arroyo las Positas, immediately west of Vasco Road.	<ul style="list-style-type: none"> Widen channel of Arroyo las Positas (immediately west of Vasco Road). Acquire 0.11 acres of land for channel widening. Create 0.14 acres of wetlands as environmental mitigation for channel widening. Repair a minor bank failure along the south bank of Arroyo las Positas. Construct a 0.2 mile trail from Lobelia Way to the existing trail. Acquire 0.2 acres for trail. Create off-line seasonal ponds to create habitat for the California red-legged frog and California tiger salamander. Limit mosquito breeding in seasonal ponds. Acquire 0.5 acres of land for pond and buffer area. 	<ul style="list-style-type: none"> Trails, Recreation, and Public Education Flood Protection and Drainage

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
Reach 2				
R.2-1	Velocity Control Project	To implement flood protection along the realigned Arroyo las Positas, address in-stream and bank erosion due to high velocity flood flows, and create links to regional trails.	<ul style="list-style-type: none"> • Construct floodwall along the south bank of Realigned Arroyo las Positas. • Construct velocity/erosion control measures, including channel meander along the realigned Arroyo las Positas channel, reconfiguration of concrete weir stilling basin to provide better energy dissipation, and increased vegetation along the channel sloped and banks. • Establish 5,300 feet of trail on existing south maintenance road from Vasco Road to the confluence with Arroyo Seco to be linked to Regional Trails Project R.2-3. 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
R.2-2	Arroyo Seco Improvements	To allow Arroyo Seco to convey 100-year flows at built-out conditions.	<ul style="list-style-type: none"> • Construct five floodwalls along the three bridges to provide adequate freeboard under built-out conditions. • Repair the existing levees along the east bank of Arroyo Seco. Repair work would be conducted along 500 feet of levees. • Perform limited plantings of native species to provide cover and shade through reach. Conduct vegetation planting along 1,400 feet of levee. • Construct bio-technical bank stabilization along 1,400 feet of stream on both banks. • Construct floodwall along Arroyo Seco. 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Habitat and Environment

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.2-3	Arroyo Seco Trail Project	To create a system of regional trails.	<ul style="list-style-type: none"> • Upgrade 6,000 feet of maintenance road to trail along Arroyo Seco. • Conduct bike trail touch-ups on existing bike trails along Arroyo Seco. • Construct a cantilever bridge to route the Arroyo Seco trail over the railroad tracks. • Install signs for safety at each side of the cantilever bridge. • Construct a cantilever bridge over the realigned Arroyo las Positas to tie-in to Arroyo Seco trail. • Acquire approximately 0.35 acres of land for bike trail touch-ups. 	<ul style="list-style-type: none"> • Trails, Recreation, and Public Education
Reach 3				
R.3-1	South Bay Aqueduct Turnout Construction and Low Flow Crossings	<p>To increase the groundwater recharge along Arroyo Mocho by</p> <ul style="list-style-type: none"> • constructing a turnout to transfer water from the SBA. The project also includes • constructing two low-flow crossings along Arroyo Mocho. 	<ul style="list-style-type: none"> • Construct SBA turnout • Replace existing low-flow crossing (residential driveway) at 3949 Mines Road with an elevated ford design crossing (approximately 100 feet by 12 feet in width) • Replace existing low-flow crossing (residential driveway) at 4351 Mines Road with an elevated ford design or clear span crossing (design and dimensions to be determined) 	<ul style="list-style-type: none"> • Water Supply • Habitat and Environment

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.3-2	Robertson Park Enhancement and Levee Construction Project	To curtail erosion along Arroyo Mocho by implementing bank stabilization activities and to create wetlands to improve water quality and enhance critical habitat.	<ul style="list-style-type: none"> • Construct wetland with meandering channel, breeding habitat/pools, excavation to accommodate 100-year flood, downstream grade control, and native habitat • Manage vegetation including non-native plant removal and replacement with native varieties • Build levees along the north and south banks and dedicate approximately 35 acres of land within levees • Construct education center/in-door classroom • Construct wetland area boardwalk trail • Construct regional connector trail along Arroyo Mocho • Install biotechnical bank stabilization measures. 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
R.3-3	Parks Floodplain Dedication and Levee Construction	To dedicate floodplain to attenuate 100-year flood flows at build-out and to protect existing development from a 100-year flood event.	<ul style="list-style-type: none"> • Dedicate floodplain as park/open space • Construct levees, including road rerouting and native species revegetation • Stabilize banks as needed from Arroyo Road to just upstream of Holmes Street 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Habitat and Environment • Trails, Recreation, and Public Education
R.3-4	Holmes Street Sedimentation Basin and Granada/Murrieta Protection and Enhancement	To curtail aggradation of Arroyo Mocho, to protect existing development from a 100-year flood event and to provide regional trail connectivity.	<ul style="list-style-type: none"> • Construct 1.9 AF sedimentation basin just upstream of Holmes Street. Create 0.9 acres of wetlands • Construct levees along channel banks, including trail route on levee. • Dedicate approximately 25 acres of land for levees. • Conduct riparian enhancement along both banks of Arroyo Mocho and along the levees • Remove Granada High School crossing 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
R.3-5	Fish Barrier Removal at Stanley Boulevard and Railroad Overcrossing	To restore Arroyo Mocho as a fish migration corridor and to improve the riparian habitat along Arroyo Mocho.	<ul style="list-style-type: none"> • Modify railroad bridge footing to allow fish passage • Rehabilitate railroad bridge into trail • Conduct riparian enhancement along Arroyo Mocho banks 	<ul style="list-style-type: none"> • Habitat and Environment • Recreation, Trails, and Public Education

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
Reach 4				
R.4-1	Sycamore Grove Recharge Bypass Project	To replace existing summer-time water releases from Del Valle Reservoir into Arroyo del Valle with releases from South Bay Aqueduct into South Tributary.	<ul style="list-style-type: none"> • Modify valving at treatment plant and transform into SBA turnout 	<ul style="list-style-type: none"> • Water Supply • Habitat and Environment
R.4-2	Sycamore Grove Park Trail Connections	To create a system of regional trails by filling in regional trail corridor gaps.	<ul style="list-style-type: none"> • Link Sycamore Grove Park trail to EBRPD's trail, including an undercrossing and bike/ pedestrian bridge with signage • Construct Sycamore Grove Park trail extension • Acquire approximately 1.5 acres of land for trail connection 	<ul style="list-style-type: none"> • Recreation, Trails, and Public Education
Reach 5				
R.5-1	North of I-580 Trail System	To promote recreational corridors along Arroyo las Positas and create a regional trail system and create a system of regional trails	<ul style="list-style-type: none"> • Construct Cottonwood, Collier, and Cayetano trails. Acquire 30.3 acres of land for trails • Construct seasonal undercrossing at I-580 • Construct fencing to exclude cattle from the creeks. 	<ul style="list-style-type: none"> • Trails, Recreation, and Public Education
R.5-2	Airway Improvement Project	To increase the reach capacity and curtail future aggradation by trapping sediment loads.	<ul style="list-style-type: none"> • Remove sediment at culverts in Kitty Hawk Road and along Airway Boulevard • Mitigate sediment removal (restoration) • Construct 2.8 acre-sediment basin • Construct levees (or construct floodplain terrace with bank stabilization) • Install shaded riverine aquatic cover 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Recreation, Trails, and Public Education

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.5-3	Arroyo las Positas Diversion Project	To alleviate capacity deficiency at Arroyo las Positas through Las Positas Golf Course and protect adjacent property from potential flooding. To provide detention storage at Chain of Lakes.	<ul style="list-style-type: none"> • Construct a diversion channel for Arroyo las Positas flows, with a flow control structure, diversion/drainback channel, distribution channel, box culvert, drainback outlet, and land acquisition • Widen channel through the Golf Course by lowering channel invert, removing sediment, constructing 2.8 acre-sediment basin, and conducting mitigation on approximately 1.4 acres of land for sediment removal. • Widen channel downstream of the diversion by utilizing terracing to convey flows from the diversion structures • Create approximately 9 acres of wetland as mitigation. 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Supply
Reach 6				
R.6-1	Arroyo Mocho Management Plan	To protect and enhance stream habitat and improve riparian habitat. Also, to create a recreational corridor linked to the regional trail system.	<ul style="list-style-type: none"> • Extend vegetation management to create meandering channel and increase riparian vegetation • Modify existing fish barriers to make the streams fish-friendly • Construct trail linked to regional trails • Construct interpretive kiosk 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
R.6-2	Arroyo Mocho Bypass and Regional Storage at Chain of Lakes	To alleviate flooding along Arroyo Mocho, and to provide regional storage and reduce downstream flooding along ADLL.	<ul style="list-style-type: none"> • Construct Arroyo Mocho Bypass, including overflow structure, new channel, and required land acquisition • Construct stormwater return from Cope Lake and Lake G, including outlet works, engine driven mobile pump system, and widening of Arroyo Mocho downstream of Cope Lake • Construct multipurpose trail along Arroyo Mocho bypass and along the road 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Water Supply • Water Quality • Recreation, Trails, and Public Education

Reach 7

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.7-1	Upper Chain of Lakes Trail Network	To construct a recreational trail network around Lakes A and B that will be linked to existing trails.	<ul style="list-style-type: none"> • Construct a trail network around Lakes A and B, including pedestrian bridges and signaled crossings • Acquire approximately 5 acres of land 	<ul style="list-style-type: none"> • Recreation, Trails, and Public Education
R.7-2	EBRPD Trail Connections	To create a system of regional trails and link EBRPD trail segments.	<ul style="list-style-type: none"> • Construct new trail to connect existing trail segments 	<ul style="list-style-type: none"> • Recreation, Trails, and Public Education
R.7-3	Lower Arroyo del Valle Restoration and Enhancement Project	To improve fisheries habitat and create a system of trails.	<ul style="list-style-type: none"> • Construct trails, develop a trail maintenance plan, install pedestrian and bike signaled crossings, construct a pedestrian and bike overcrossing, and acquire 0.9 acres of land. • Remove three fish barriers and replace a drop structure • Repair and modify flap gates • Fill and replant riparian gaps and remove non-native species 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Habitat and Environment • Recreation, Trails, and Public Education
Reach 8				
R.8-1	Tassajara Creek Improvement Project	To alleviate capacity problems in the lower reach of Arroyo Mocho and promote regional trail and connectivity.	<ul style="list-style-type: none"> • Extend trail along Tassajara Creek • Construct a sediment basin • Construct undercrossing to allow for seasonal passage under I-580 • Stabilize each bank as needed from I-580 to confluence with Arroyo Mocho 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Recreation, Trails, and Public Education
R.8-2	Chabot Canal Improvement Project	To increase flood control capacity of Chabot Canal to convey 100-year storm flows and extend the regional trail system.	<ul style="list-style-type: none"> • Construct additional box culverts at five crossings • Lower and pave levee maintenance road • Open a maintenance road for use as a multi-purpose trail • Clean, widen, and concrete line Chabot Canal upstream of I-580 • Create 5.4 acres of wetlands 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Trails, Recreation, and Public Education

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.8-3	Lower Arroyo Mocho Improvement Project	To curtail aggradation of Arroyo Mocho and enhance in-stream aquatic habitat for steelhead.	<ul style="list-style-type: none"> • Improve channel by removing drop structure and replacing with an alternative grade control structure, removing sediment, installing aquatic cover, creating a low-flow channel, and constructing bio-technical bank stabilization measures • Construct a new flood wall • Create 8.2 acres of wetlands as mitigation for sediment removal 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
R.8-4	Upper ADLL Improvement Project	To restore reach capacity and to protect properties from a 100-year flood event; to enhance the in-stream aquatic habitat and restore steelhead passage; and to provide a recreational corridor with interpretive features.	<ul style="list-style-type: none"> • Improve channel by removing sediment, creating low-flow channel, installing bank stabilization measures and grade control structure, lowering maintenance road, and providing shaded riverine cover • Build new flood wall along Valley Trails • Construct new flood wall along Pleasanton Canal • Install drainage pump in Valley Trails neighborhood • Construct 2 interpretive kiosks • Create 9.2 acres of wetland for mitigation for sediment removal 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
Reach 9				
R.9-1	Alamo Canal/South San Ramon Creek Erosion Control	To stabilize Alamo Canal and South San Ramon Creek banks in order to decrease sediment load and curtail aggradation along the lower reaches of Alamo Canal.	<ul style="list-style-type: none"> • Stabilize the Alamo Canal and South San Ramon Creek banks using bio- and geo-technical bank stabilization methods • Provide shaded riverine aquatic cover and habitat enhancement along the channel 	<ul style="list-style-type: none"> • Erosion and Sedimentation • Water Quality • Habitat and Environment
R.9-2	Line F-4 Concrete Lining	To stabilize banks currently backing adjacent residences' properties and arrest further property loss.	<ul style="list-style-type: none"> • Concrete line channel. • Create 3.7 acres of wetland as mitigation for concrete lining 	<ul style="list-style-type: none"> • Erosion and Sedimentation
R.9-3	Line J-1, J-3, and J-5 Improvements	To increase channel capacity and to address undersized culverts, thereby reducing flooding.	<ul style="list-style-type: none"> • Concrete line channel, including bottom and banks. Create 1.9 acres of wetlands as mitigation. • Retrofit culverts 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.9-4	Line T Crossing Evaluation	To protect properties adjacent to Dublin Canyon Road bridge from flooding	<ul style="list-style-type: none"> • Retrofit Dublin Canyon Boulevard culvert by increasing culvert capacity, and building floodwalls • Retrofit Donlon Way culvert by increasing culvert capacity and building floodwalls. 	<ul style="list-style-type: none"> • Flood Protection and Drainage
R.9-5	I-580 Trail Gap Elimination	To close a gap in the regional trail system, linking trails south and north of I-580.	<ul style="list-style-type: none"> • Excavate notch on east side of I-580 bridge • Install retaining wall • Develop trail surface under bridge 	<ul style="list-style-type: none"> • Trails, Recreation, and Public Education
R.9-6	Line G-1-1 Maintenance Plan	To eliminate mosquito breeding in stagnant pools and to repair minor bank failures.	<ul style="list-style-type: none"> • Create low flow channel • Repair bank failures • Remove sediment • Create 0.3 acres of wetlands as sediment removal mitigation 	<ul style="list-style-type: none"> • Erosion and Sedimentation • Water Quality • Habitat and Environment
R.9-7	Alamo Creek Flood Control Program	To restore capacity of Alamo Canal for 100-year flood flows and lower an existing maintenance road.	<ul style="list-style-type: none"> • Remove sediment • Lower maintenance road • Revegetate along excavated bank • Construct biotechnical bank stabilization • Create 7.8 acres of wetlands as sediment removal mitigation 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment
Reach 10				
R.10-1	Upper ADLL Improvement Project 1	To stabilize banks along the upper reach of ADLL, enhance riparian corridor, and create a recreational corridor.	<ul style="list-style-type: none"> • Upgrade maintenance road for trail access. Install signage. • Construct pedestrian/maintenance bridge (trail link) • Stabilize channel by constructing in-stream bank protection devices, using biotechnical measures, and by installing one grade control structure. • Enhance riparian corridor 	<ul style="list-style-type: none"> • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education

**TABLE 2-4 (Continued)
DESCRIPTION OF SMMP PROJECTS**

Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.10-2	Upper ADLL Improvement Project 2	To enhance stream habitat and environmental features for steelhead, stabilize banks, and create a recreational corridor.	<ul style="list-style-type: none"> • Replace the existing storm water drainage outfall • Remove concrete structure and replace with drop structure, apron, or riprap • Install interpretive kiosk • Stabilize bank using bio-technical techniques • Construct trail along Bernal property • Construct pedestrian bridge over Line B21 • Create vegetated bank terrace • Acquire 2.4 acres along 1 mile of stream for trail 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Recreation, Trails, and Public Education
R.10-3	ADLL Improvement Project 3	To improve potential fisheries corridor in ADLL, stabilize banks, and extend the recreational corridor.	<ul style="list-style-type: none"> • Replace drop structure • Restore riprap. Acquire 5.5 acres on each bank. • Open maintenance road for public access • Acquire 1.1 acres for trail 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
R.10-4	ADLL Improvement Project 4	To stabilize the bed and banks along the middle reach of ADLL, enhance the riparian corridor, and continue the recreational corridor.	<ul style="list-style-type: none"> • Conduct bank restoration activities • Extend trail south of golf course. Acquire 2.1 acres of railroad easement • Install signage for pedestrian crossing • Construct bank stabilization demonstration project. Acquire 1.15 acres of land. • Construct a grade control structure • Construct an interpretive kiosk 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education

**TABLE 2-4 (Continued)
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Reach/ Project No.	Project Name	Purpose	Project Components	Project Goals
R.10-5	ADLL Improvement Project 5	To protect properties from 100-year flood event, reduce erosion and improve riparian habitat, and continue the recreational corridor.	<ul style="list-style-type: none"> • Preserve existing floodplain on SFPUC property • Create trail along ADLL. Acquire 4.8 acres • Replace drop structures with alternative grade control structures • Remove log jam • Install in-stream bank protection devices • Reduce sharp meander by establishing new flow paths • Implement vegetation management and riparian enhancement • Implement land acquisition • Build levee 	<ul style="list-style-type: none"> • Flood Protection and Drainage • Erosion and Sedimentation • Water Quality • Habitat and Environment • Trails, Recreation, and Public Education
Reach 11				
R.11-1	Alameda Creek Trail	To create a system of regional trails.	<ul style="list-style-type: none"> • Construct connector trail along Alameda Creek. Acquire 5.8 acres of land for trail. 	<ul style="list-style-type: none"> • Trails, Recreation, and Public Education
R.11-2	Sinbad Creek Project	To stabilize bank and encourage community participation in creek stewardship.	<ul style="list-style-type: none"> • Establish volunteer "Adopt-a-Creek" program and install "no dumping" signage • Conduct localized erosion control, place boulders along toe of bank, revegetate bank, and acquire 0.055 acre for bank stabilization. • Conduct trash removal. 	<ul style="list-style-type: none"> • Erosion and Sedimentation • Trails, Recreation, and Public Education • Water Quality
Reach 12				
R.12-1	Patterson Run Enhancement Program	To stabilize creek banks, encourage creek stewardship, and encourage use of Best Management Practices.	<ul style="list-style-type: none"> • Establish volunteer "Adopt-a-Creek" program and install "no dumping" signage. • Stabilize channel banks by grading and revegetating. • Conduct trash removal. 	<ul style="list-style-type: none"> • Erosion and Sedimentation • Water Quality • Trails, Recreation, and Public Education
R.12-2	Coral Hollow Creek Landowner Grant Program	To reduce property loss and downstream sedimentation and encourage community participation in creek stewardship.	<ul style="list-style-type: none"> • Conduct localized bank stabilization activities. Acquire 0.9 acres • Establish volunteer "Adopt-a-Creek" program 	<ul style="list-style-type: none"> • Erosion and Sedimentation • Water Quality • Trails, Recreation, and Public Education

**TABLE 2-4 (Continued)
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