

South Central California Steelhead DPS Recovery Action Tables Identification Key, San Luis Obispo Terrace BPG (Tables 12-4 to 12-14).

Recovery Action Number Key: XXXX – SCCCS – 1.2		XXXX ID Table	Threat Source Legend		
XXXX	Watershed	SCp	San Carpoforo	1	Agricultural Development
SCCC S	Species Identifier – South Central California Steelhead	AC	Arroyo de la Cruz	2	Agricultural Effluents
1	Threat Source	LP	Little Pico Creek	3	Culverts and Road Crossings (Passage Barriers)
2	Action Identity Number	PC	Pico Creek	4	Dams and Surface Water Diversions
Action Rank		SS	San Simeon Creek	5	Flood Control Maintenance
A	Action addresses the first listing factor regarding the destruction or curtailment of the species' habitat	SR	Santa Rosa Creek	6	Groundwater Extraction
B	Action addresses one of the other four listing factors	MC	Morro Creek	7	Levees and Channelization
		CC	Chorro Creek	8	Mining and Quarrying
		LO	Los Osos Creek	9	Non-Native Species
		SLO	San Luis Obispo Creek	10	Recreational Facilities
		Pis	Pismo Creek	11	Roads
		AG	Arroyo Grande Creek	12	Upslope/Upstream Activities
				13	Urban Development
				14	Urban Effluents
				15	Wildfires

See Chapter 8, Table 8-1 for Detailed Description of Recovery Actions, Chapter 6, Section 6.4, for a discussion of Recovery Action Ranks, and Chapter 3, Section 3.0, for a description of Listing Factors. See Appendix E for a discussion of recovery action cost estimates.

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Table 12-4. South-Central California Steelhead DPS Recovery Action Table for the San Carpoforo Creek Watershed (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
San Carpoforo Creek												
ScP-SCCC S-1.1	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	5	47520	0	0	0	0	47520
ScP-SCCC S-1.2	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	5	0	0	0	0	0	0
ScP-SCCC S-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Effluents	1, 4	3B	100	0	0	0	0	0	0
ScP-SCCC S-4.1	Develop and implement water management plan for diversion operations	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	2A	5	91850	0	0	0	0	91850
ScP-SCCC S-4.2	Provide fish passage around dams and diversions	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	3A	5	0	0	0	0	0	0
ScP-SCCC S-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TCFT, TBSLT, VWA, TCFT, TU	Groundwater Extraction	1, 4	2A	5	91850	0	0	0	0	91850
ScP-SCCC S-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Groundwater Extraction	1, 4	3B	10	254350	39775	0	0	0	294125

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
ScP-SCCC S-9.2	Develop and implement watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, TBSLT SLOCFB,, VWA, TCFT, TU	Non-Native Species	1, 3, 5	3B	100	0	0	0	0	0	0
ScP-SCCC S-9.3	Develop and implement non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, TBSLT, SLOCFB, VWA, TCFT, TU	Non-Native Species	1, 3, 5	3B	100	0	0	0	0	0	0
ScP-SCCC S-9.1	Develop and implement public education program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW SLOCFB, TCLT, TBSLT, VWA, TCFT, TU	Non-Native Species	1, 3, 5	3B	20	76140	76140	76140	76140	0	304560
ScP-SCCC S-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., U.S. Forest Service Los Padres National Forest Land Management Plan U.S. Forest Service Plan for the Silver Peak Wilderness Area)	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, TBSLT, VWA, TCFT	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
ScP-SCCC S-10.2	Develop and implement a public educational program on watershed processes	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, SLOCFB, TCLT, TBSLT, VWA, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
ScP-SCCC S-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, USFS, CDOT, SLOC, CDPR, CDFW, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Roads	1, 4	3B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
ScP-SCCC S-11.2	Develop and implement plan to remove or reduce approach-fill for railroad lines and roads	USDOT, NMFS, USFS, CDOT, SLOCFB, SLOC, CDPR, CDFW, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Roads	1, 4	3B	20	0	0	0	0	0	0
ScP-SCCC S-12.1	Develop and implement an estuary restoration and management plan	USFS, USFWS, NMFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	4154000	0	0	0	0	4154000
ScP-SCCC S-12.2	Review and modify applicable County and/or City Local Coastal Plans	CCCOM, SLOC, NMFS, CDFW, LPFW, SLOCFB, TCLT, TBSLT, VWA, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
ScP-SCCC S-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, NMFS, SLOCFB, CDFW, TCLT, TBSLT, VWA, TCFT	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
ScP-SCCC S-14.1	Review, assess and modify if necessary all NPDES wastewater discharge permits	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
ScP-SCCC S-15.1	Develop and implement an integrated wildland fire and hazardous fuels management plan	CDF&FP, USFS, USFWS, SLOC, NMFS, CDFW, LP SLOCFB, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Wildfires	1, 4, 5	2B	100	0	0	0	0	0	0

Table 12-5. South-Central California Steelhead DPS Recovery Action Table for the Arroyo de la Cruz Watershed (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Arroyo de la Cruz												
AC-SCCC S-1.1	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2A	5	47520	0	0	0	0	47520
AC-SCCC S-1.2	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2A	5	0	0	0	0	0	0
AC-SCCC S-1.3	Develop, adopt and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2A	20	0	0	0	0	0	0
AC-SCCC S-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, TU	Agricultural Effluents	1, 4	3A	100	0	0	0	0	0	0
AC-SCCC S-4.1	Develop and implement water management plan for diversion operations	NMFS, USFS, CDFW, SLOC, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
AC-SCCC S-4.2	Develop and implement water management plan for dam operations	NMFS, USFS, CDFW, SLOC, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
AC-SCCC S-4.3	Provide fish passage around dams and diversions	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	2A	5	0	0	0	0	0	0
AC-SCCC S-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Groundwater Extraction	1, 4	2A	5	91850	0	0	0	0	91850
AC-SCCC S-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, LPFW, TCLT, SLOCFB, TBSLT, VWA, TCF, TUT	Groundwater Extraction	1, 4	2A	10	254350	39775	0	0	0	294125

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
AC-SCCC S-9.1	Develop and implement watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	2B	100	0	0	0	0	0	0
AC-SCCC S-9.2	Develop and implement non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	2B	100	0	0	0	0	0	0
AC-SCCC S-9.3	Develop and implement public education program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	2B	20	76140	76140	76140	76140	0	304560
AC-SCCC S-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., U.S. Forest Service Los Padres National Forest Land Management Plan)	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
AC-SCCC S-10.2	Develop and implement a public educational program on watershed processes	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
AC-SCCC S-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, USFS, CDOT, SLOC, CDPR, CDFW, LPFW, TCLT, TBSLT, SLOCFB, VWA, TCFT, TU	Roads	1, 4	2B	20	0	0	0	0	0	0
AC-SCCC S-12.1	Develop and implement an estuary restoration and management plan	USFS, USFWS, NMFS, CDOT, SLOC, CDPR, CDFW, LPFW, TCLT, TBSLT, SLOCFB, VWA, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	1742000	0	0	0	0	174200

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
AC-SCCC S-12.2	Review and modify applicable County and/or City Local Coastal Plans	CCCOM, SLOC, NMFS, CDFW, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
AC-SCCC S-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
AC-SCCC S-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
AC-SCCC S-15.1	Develop and implement an integrated wildlands fire and hazardous fuels plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Wildfires	1, 4, 5	2B	100	0	0	0	0	0	0

Table 12-6. South-Central California Steelhead DPS Recovery Action Table for the Little Pico Creek Watershed (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Little Pico Creek												
LP-SCCCS -1.1	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	5	47520	0	0	0	0	47520
LP-SCCCS -1.2	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	5	0	0	0	0	0	0
LP-SCCCS -1.3	Develop, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	20	0	0	0	0	0	0
LP-SCCCS -2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, TU	Agricultural Effluents	1, 4	2B	100	0	0	0	0	0	0
LP-SCCCS -4.1	Develop and implement water management plan for diversion operations	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	2A	5	91850	0	0	0	0	91850
LP-SCCCS -4.2	Develop and implement water management plan for dam operations	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT	Dams and Surface Water Diversions	1, 3, 4	2B	5	91850	0	0	0	0	91850
LP-SCCCS -3.1	Conduct watershed-wide fish passage barrier assessment	NMFS, CDFW, CCON, SLOC, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 3, 5	2A	5	96690	0	0	0	0	96690
LP-SCCCS -3.2	Develop and implement plan to remove or modify fish passage barriers within the watershed	NMFS, CDFW, CCON, SLOC, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 3, 5	2A	5	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
LP-SCCCS-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	91850
LP-SCCCS-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC SLOCFB, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Groundwater Extraction	1, 4	3B	10	254350	39775	0	0	0	294125
LP-SCCCS-9.1	Develop and implement watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	3B	100	0	0	0	0	0	0
LP-SCCCS-9.2	Develop and implement non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	3B	100	0	0	0	0	0	0
LP-SCCCS-9.3	Develop and implement public education program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	3B	20	76140	76140	76140	76140	0	304560
LP-SCCCS-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., U.S. Forest Service Los Padres National Forest Land Management Plan)	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
LP-SCCCS-10.2	Develop and implement a public educational program on watershed processes	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
LP-SCCCS-11.1	Manage roadways and adjacent riparian corridor and restore	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, LPFW, TCLT, TBSLT,	Roads	1, 4	3B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)						
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100	
	abandoned roadways	VWA, TCFT, TU											
LP-SCCCS-12.1	Develop and implement an estuary restoration and management plan	USFS, USFWS, NMFS, CDOT, SLOC, SLOCFB, CDP, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	1474000	0	0	0	0	0	1474000
LP-SCCCS-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	0	62400
LP-SCCCS-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0	0
LP-SCCCS-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., San Simeon Community Service District Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, TBSLT, VWA, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0	0
LP-SCCCS-15.1	Develop and implement an integrated wildlands fire and hazardous fuels plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Wildfires	1, 4, 5	2B	100	0	0	0	0	0	0	0

Table 12-7. South-Central California Steelhead DPS Recovery Action Table for the Pico Creek Watershed (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Pico Creek												
PC-SCCC S-1.1	Develop, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	20	0	0	0	0	0	0
PC-SCCC S-1.2	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	5	47520	0	0	0	0	47520
PC-SCCC S-1.3	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	2B	5	0	0	0	0	0	0
PC-SCCC S-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, TU	Agricultural Effluents	1, 4	2B	100	0	0	0	0	0	0
PC-SCCC S-3.1	Conduct watershed-wide fish passage barrier assessment	NMFS, CDFW, CCON, SLOC, SLOCFB, TBSLT, VWA, CCSE, TCFT	Culverts and Road Crossings (Passage Barriers)	1, 3, 5	2A	5	96690	0	0	0	0	96690
PC-SCCC S-3.2	Develop and implement plan to remove or modify fish passage barriers within the watershed	NMFS, CDFW, CCON, SLOC, TBSLT, VWA, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 3, 5	2A	5	0	0	0	0	0	0
PC-SCCC S-4.1	Develop and implement water management plan for diversion operations	NMFS, USFS, CDFW, SLOC, LPFW, TCL, TBSLT, VWA, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	3B	5	91850	0	0	0	0	91850

PC-SCCC S-4.2	Develop and implement water management plan for dam operations	NMFS, USFS, CDFW, SLOC, SLOC, SLOC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Dams and Surface Water Diversions	1, 3, 5	1B	5	91850	0	0	0	0	91850
PC-SCCC S-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Groundwater Extraction	1, 4	3B	5	91850	0	0	0	0	91850
PC-SCCC S-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Groundwater Extraction	1, 4	3B	10	254350	39775	0	0	0	294125
PC-SCCC S-9.1	Develop and implement watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOC, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	3B	100	0	0	0	0	0	0
PC-SCCC S-9.2	Develop and implement non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOC, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	3B	100	0	0	0	0	0	0
PC-SCCC S-9.3	Develop and implement public education program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOC, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	3B	20	76140	76140	76140	76140	0	304560
PC-SCCC S-10.1	Review and modify development and management plans for recreational areas and national forests	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOC, TBSLT, VWA, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	3B	20	0	0	0	0	0	0
PC-SCCC S-10.2	Develop and implement a public educational program on watershed processes	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOC, TBSLT, VWA, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
PC-SCCC S-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOC, CDPR, CDFW, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Roads	1, 4	3B	20	0	0	0	0	0	0
PC-SCCC S-12.1	Develop and implement an estuary restoration and	USFS, USFWS, NMFS, CDOT, SLOC, SLOC, CDPR, CDFW, LPFW, TCLT, TBSLT,	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	2345000	0	0	0	0	2345000

	management plan	VWA, CCSE, TCFT, TU										
PC-SCCC S-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
PC-SCCC S-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
PC-SCCC S-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., San Simeon Community Service District Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, SLOCFB, TBSLT, VWA, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
PC-SCCC S-15.1	Develop and implement an integrated wildlands fire and hazardous fuels plan	CDF&FP, USFS, USFWS, SLOC, NMFS, CDFW, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Wildfires	1, 4, 5	2B	100	0	0	0	0	0	0

Table 12-8. South-Central California Steelhead DPS Recovery Action Table for the San Simeon Creek Watershed (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)						
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100	
San Simeon Creek													
SS-SCCC S-1.1	Develop, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	1B	20	0	0	0	0	0	0	0
SS-SCCC S-1.2	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	1B	5	47520	0	0	0	0	0	47520
SS-SCCC S-1.3	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0	0
SS-SCCC S-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT	Agricultural Effluents	1, 4	2B	100	0	0	0	0	0	0	0
SS-SCCC S-3.1	Conduct watershed-wide fish passage barrier assessments (or review and update)	NMFS, CDFW, CCCON, SLOC, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	2B	5	96690	0	0	0	0	0	96690
SS-SCCC S-3.2	Develop and implement plan to remove or modify fish passage barriers within the watershed (e.g., San Luis Obispo County)	NMFS, CDFW, CCCON, SLOC, TBSLT, VWA, CCSE, TCFT	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	0	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)						
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100	
	Stream Crossing Inventory and Fish Passage Evaluation, 2005)												
SS-SCCC S-4.1	Develop and implement water management plan for diversion operations	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	3B	5	91850	0	0	0	0	0	91850
SS-SCCC S-4.3	Provide fish passage around dams and diversions	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Dams and Surface Water Diversions		1B	5	0	0	0	0	0	0	0
SS-SCCC S-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCES, TCFT, TU	Groundwater Extraction	1, 4	1A	5	91850	0	0	0	0	0	91850
SS-SCCC S-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Groundwater Extraction	1, 4	1A	10	254350	39775	0	0	0	0	294125
SS-SCCC S-7.1	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW, SLOC, SLOCFB, CCRCDC, CSLRCD, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT	Levees and Channelization	1, 4	1B	100	0	0	0	0	0	0	0
SS-SCCC S-7.2	Develop and implement a stream bank and riparian corridor restoration plan	NRCS, FEMA, NMFS, CDFW, SLOC, SLOCFB, CCRCDC, CSLRCD, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	5	10521940	0	0	0	0	0	10521940
SS-SCCC S-8.1	Review and modify mining operations (e.g., using guidance in Cluer 2004)	USGS, NMFS, CDFW, CDMG, SLOC, SLOCFB, CCRCDC, CSLRCD, NRCS,	Mining and Quarrying	1, 3, 5	1B	20	68030	0	0	0	0	0	68030

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
		CCSE, TCFT										
SS-SCCC S-9.1	Develop and implement watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, CCSE, TBSLT, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	2B	100	0	0	0	0	0	0
SS-SCCC S-9.2	Develop and implement non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, CCSE, VWA, CCSE, TCFT, TU	Non-Native Species	1, 3, 5	2B	100	0	0	0	0	0	0
SS-SCCC S-9.3	Develop and implement public education program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, CCSE, VWA, CSSE, TCFT, TU	Non-Native Species	1, 3, 5	2B	20	76140	76140	76140	76140	0	304560
SS-SCCC S-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., U.S. Forest Service Los Padres National Forest Land Management Plan, San Simeon State Beach Management Plan)	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
SS-SCCC S-10.2	Develop and implement a public educational program on watershed processes	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SS-SCCC S-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, CDPR, CDFW, LPFW, TCLT, TBSLT, SLOCFB, VWA, CCSE, TCFT, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
SS-SCCC S-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Roads	1, 4	1B	20	32260	32260	32260	32260	0	129040
SS-SCCC S-11.3	Develop and implement plan to remove or reduce approach-fill for railroad lines and roads	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
SS-SCCC S-12.1	Develop and implement an estuary restoration and management plan	USFS, USFWS, NMFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	1675000	0	0	0	0	1675000
SS-SCCC S-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
SS-SCCC S-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Urban Development	1, 4	2B	5	62400	0	0	0	0	62400
SS-SCCC S-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SS-SCCC S-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable stormwater permits	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
SS-SCCC S-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., Cambria Community Service District Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC, NMFS, CDFW, TCLT, SLOC, TBSLT, VWA, CCSE, TCFT, TU	Urban Effluents	1, 4	3B	20	0	0	0	0	0	0
SS-SCCC S-15.1	Develop and implement an integrated wildlands fire and hazardous fuels plan	CDF&FP, USFS, USFWS, SLOC, SLOC, NMFS, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Wildfires	1, 4, 5	2B	100	0	0	0	0	0	0

Table 12-9. South-Central California Steelhead DPS Recovery Action Table for the Santa Rosa Creek Watershed (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)						
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100	
Santa Rosa Creek													
SR-SCCCS -1.1	Develop, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	1B	20	0	0	0	0	0	0	0
SR-SCCCS -1.2	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	1B	5	47520	0	0	0	0	0	47520
SR-SCCCS -1.3	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, LPFW, TCLT, TBSLT, VWA, TCFT, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0	0
SR-SCCCS -2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Effluents	1, 4	1B	100	0	0	0	0	0	0	0
SR-SCCCS -3.1	Conduct watershed-wide fish passage barrier assessment (or review and update)	NMFS, CDFW, CCON, SLOC, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	96690	0	0	0	0	0	96690
SR-SCCCS -3.2	Develop and implement plan to remove or modify fish passage barriers within the watershed (e.g., San Luis Obispo County Stream Crossing Inventory and Fish Passage Evaluation, 2005)	NMFS, CDFW, CCON, SLOC, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)		1A	5	0	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SR-SCCCS-4.1	Develop and implement water management plan for diversion operations	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 5	1A	5	91850	0	0	0	0	91850
SR-SCCCS-4.3	Provide fish passage around dams and diversions	NMFS, USFS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Dams and Surface Water Diversions		2A	5	0	0	0	0	0	0
SR-SCCCS-5.1	Develop and implement a plan to minimize disturbance of instream habitats and riparian vegetation	ACOE, NMFS, NRCS, SLOC, SLOCFB, USGS, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Flood Control Maintenance	1, 4	1B	5	68030	0	0	0	0	68030
SR-SCCCS-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	91850
SR-SCCCS-6.2	Develop and implement groundwater monitoring and management plan (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Groundwater Extraction	1, 4	1B	10	254350	39775	0	0	0	294125
SR-SCCCS-7.1	Develop and implement plan to restore natural channel features	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRDC, CSLRCD, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	100	0	0	0	0	0	0
SR-SCCCS-7.2	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRDC, CSLRCD, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	5	10521940	0	0	0	0	10521940
SR-SCCCS-7.3	Develop and implement stream bank and riparian corridor restoration plan	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRDC, CSLRCD, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Levees and Channelization	1, 4	2A	100	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SR-SCCCS-9.1	Develop and implement watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, CCSE, VWA, TCFT, TU	Non-Native Species	1, 3, 5	2B	100	0	0	0	0	0	0
SR-SCCCS-9.2	Develop and implement non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, CCSE, VWA, TCFT, TU	Non-Native Species	1, 3, 5	2B	20	76140	76140	76140	76140	0	304560
SR-SCCCS-9.3	Develop and implement public education program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, SLOCFB, TBSLT, CCSE, VWA, TCFT, TU	Non-Native Species	1, 3, 5	2B	20	0	0	0	0	0	0
SR-SCCCS-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., Shamel County Park)	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT SLOCFB,, TBSLT, VWA, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
SR-SCCCS-10.2	Develop and implement a public educational program on watershed processes	USFWS, USFS, NMFS, CDFW, CDPR, CNPS, LPFW, TCLT, TBSLT, VWA SLOCFB,, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
SR-SCCCS-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, CDPR, CDFW, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Roads	1, 4	1B	20	32260	32260	32260	32260	0	129040
SR-SCCCS-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, CDPR, CDFW, LPFW, TCLT, SLOCFB, TBSLT, VWA, CCSE, TCFT, TU	Roads	1, 4	1B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SR-SCCCS-11.3	Develop and implement plan to remove or reduce approach-fill for railroad lines and roads	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDP, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Roads	1, 4	1B	5	4355000	0	0	0	0	4355000
SR-SCCCS-12.1	Develop and implement an estuary restoration and management plan	USFS, USFWS, NMFS, CDOT, SLOC, SLOCFB, CDP, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Upslope/Ups tream Activities	1, 2, 3, 4, 5	1A	5	62400	0	0	0	0	62400
SR-SCCCS-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Upslope/Ups tream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
SR-SCCCS-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0
SR-SCCCS-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0
SR-SCCCS-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0
SR-SCCCS-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., Cambria Community Service District Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Urban Effluents	1, 4	2B	100	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SR-SCC-15.1	Develop and implement an integrated wildland fire and hazardous fuel management plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, TCLT, TBSLT, VWA, CCSE, TCFT, TU	Wildfires	1, 4	2B	20	0	0	0	0	0	0

Table 12-10. South-Central California Steelhead DPS Recovery Action Table for the Morro Creek Watershed (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Morro Creek												
MC-SCCCS-1.1	Develop, adopt, and implement agricultural land-use planning policies and standards		Agricultural Development	1, 4	1B	20	0	0	0	0	0	0
MC-SCCCS-1.2	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, TCLT, CCSE, TCFT, MBNEP, TU	Agricultural Development	1, 4	1B	5	47520	0	0	0	0	47520
MC-SCCCS-1.3	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, TCLT, CCSE, TCLT, MBNEP, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0
MC-SCCCS-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CSLRDC, CCSE, TCFT, MBNEP, TU	Agricultural Effluents	1, 4	1B	100	0	0	0	0	0	0
MC-SCCCS-3.1	Conduct a watershed-wide fish passage barrier assessment (or review and update)	NMFS, CDFW, CCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	96690	0	0	0	0	96690
MC-SCCCS-3.2	Develop and implement a plan to remove or modify all identified fish passage barriers in the watershed (e.g., San Luis Obispo County Stream Crossing Inventory and Fish Passage Evaluation, 2005)	NMFS, CDFW, CCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
MC-SCCCS-4.1	Develop and implement water management plan for diversion operations	NMFS, CDFW, CCCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
MC-SCCCS-4.2	Provide fish passage around dams and diversions	NMFS, CDFW, CCCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	0	0	0	0	0	0
MC-SCCCS-5.1	Develop and implement flood control maintenance program	ACOE, NMFS, NRCS, SLOC, SLOCFB, USGS, CDFW, CCSE, TCFT, MBNEP, TU	Flood Control Maintenance	1, 4	1B	100	0	0	0	0	0	0
MC-SCCCS-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	91850
MC-SCCCS-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, CCSE, TCFT, MBNEP, TU	Groundwater Extraction	1, 4	1B	10	254350	39775	0	0	0	294125
MC-SCCCS-7.1	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRCDC, CSLRCD, CCSE, TCFT, MBNEP, TU	Levees and Channelization	1, 4	2B	100	0	0	0	0	0	0
MC-SCCCS-7.2	Develop and implement stream bank and riparian corridor restoration plan	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRCDC, CSLRCD, CCSE, TCFT, MBNEP, TU	Levees and Channelization	1, 4	2B	5	10521940	0	0	0	0	10521940
MC-SCCCS-9.1	Develop and implement a watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
MC-SCCCS-9.2	Develop and implement a non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0
MC-SCCCS-9.3	Develop and implement a public educational program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	20	76140	76140	76140	76140	0	304560
MC-SCCCS-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., Morro Bay State Park)	USFWS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
MC-SCCCS-10.2	Develop and implement public education program on watershed processes	USFWS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Recreational Facilities	1, 2, 3, 5	2B	20	76140	76140	76140	76140	0	304560
MC-SCCCS-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
MC-SCCCS-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	1B	20	32260	32260	32260	32260	0	129040
MC-SCCCS-11.3	Develop and implement plan to remove or reduce approach-fill for railroad lines and roads	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
MC-SCCCS-12.1	Develop and implement an estuary restoration and management plan	USFWS, NMFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Upslope/Ups tream Activities	1, 2, 3, 4, 5,	1A	5	2144000	0	0	0	0	2144000

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
MC-SCCCS-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Upslope/Ups tream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
MC-SCCCS-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP	Urban Development	1, 4	2B	5	62400	0	0	0	0	62400
MC-SCCCS-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP	Urban Development	1, 4	2B	20	0	0	0	0	0	0
MC-SCCCS-14.1	Review California Regional Water Quality Control Board Watersheds Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0
MC-SCCCS-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., Morro Bay/Cayucos Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0
MC-SCCCS-14.3	Review, assess and modify residential and commercial wastewater septic treatment facilities	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	100	0	0	0	0	0	0
MC-SCCCS-15.1	Develop and implement an integrated wildland fire and hazardous fuel management plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, CCSE, TCFT, MBNEP, TU	Wildfires	1, 4	2B	100	0	0	0	0	0	0

Table 12-11. South-Central California Steelhead DPS Recovery Action Table for the Morro Bay Estuary (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Chorro Creek												
CC-SCCCS-1.1	Develop, adopt, and implement agricultural land-use planning policies and standards (e.g., Livestock and Land Program)	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, TCLT, CCSE, TCFT, MBNEP, TU	Agricultural Development	1, 4	1B	20	0	0	0	0	0	0
CC-SCCCS-1.2	Manage livestock grazing to maintain or restore aquatic habitat functions (e.g., Livestock and Land Program)	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, TCL, CCSE, TCFT, MBNEP, TU	Agricultural Development	1, 4	1B	5	47520	0	0	0	0	47520
CC-SCCCS-1.3	Manage agricultural development and restore riparian zones (e.g., Livestock and Land Program)	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CCSE, CSLRDC, TCLT, CCSE, TCFT, MBNEP, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0
CC-SCCCS-2.2	Develop and implement plan to minimize runoff from agricultural activities (e.g., Livestock and Land Program)	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRCDC, CSLRDC, CCSE, TCFT, MBNEP, TU	Agricultural Effluents	1, 4	1B	100	0	0	0	0	0	0
CC-SCCCS-3.1	Conduct watershed-wide fish passage barrier assessment (or review and update)	NMFS, CDFW, CCON, SLOC, CCSE, TCFT, MBNEP, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	96690	0	0	0	0	96690

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
CC-SCCCS-3.2	Develop and implement a plan to remove or modify fish passage barriers within the watershed (or review and update)	NMFS, CDFW, CCCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	0	0	0	0	0	0
CC-SCCCS-4.1	Develop and implement water management plan for diversion operations	NMFS, CDFW, CCCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
CC-SCCCS-4.2	Develop and implement water management plan for dam operations	NMFS, CDFW, CCCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
CC-SCCCS-4.3	Provide fish passage around dams and diversions	NMFS, CDFW, CCCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	0	0	0	0	0	0
CC-SCCCS-5.1	Develop and implement flood control maintenance program	ACOE, NMFS, NRCS, SLOC, USGS, RWQCB, CDFW, CCSE, TCFT, MBNEP, TU	Flood Control Maintenance	1, 4	1B	100	0	0	0	0	0	0
CC-SCCCS-6.1	Conduct groundwater extraction analysis assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, CCSE, TCFT, MBNEP, TU	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	91850
CC-SCCCS-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, RWQCB, CDFW, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Groundwater Extraction	1, 4	1B	10	254350	39775	0	0	0	294125
CC-SCCCS-7.1	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRCDC, CSLRCD, CCSE, TCFT, MBNEP, TU	Levees and Channelization	1, 4	2B	100	0	0	0	0	0	0
CC-SCCCS-7.2	Develop and implement stream bank and riparian corridor	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRCDC, CSLRCD,	Levees and Channelization	1, 4	2B	5	10521940	0	0	0	0	10521940

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
	restoration plan	CCSE, TCFT, MBNEP, TU										
CC-SCCCS-9.1	Develop and implement a watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0
CC-SCCCS-9.2	Develop and implement a non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0
CC-SCCCS-9.3	Develop and implement a public educational program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	20	76140	76140	76140	76140	0	304560
CC-SCCCS-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., Morro Bay State Park)	USFWS, NMFS, CDFW, CDPR, CNPS, SLOCFB, CCSE, TCFT, MBNE, TUP	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
CC-SCCCS-10.2	Develop and implement public education program on watershed processes	USFWS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
CC-SCCCS-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
CC-SCCCS-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	1B	20	32260	32260	32260	32260	0	129040

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
CC-SCCCS-11.3	Develop and implement plan to remove or reduce approach-fill or railroad lines and roads	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
CC-SCCCS-12.1	Develop and implement an estuary restoration and management plan	USFWS, NMFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	67000000	0	0	0	0	67000000
CC-SCCCS-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
CC-SCCCS-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Development	1, 4	2B	5	62400	0	0	0	0	62400
CC-SCCCS-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0
CC-SCCCS-13.3	Develop and implement riparian restoration plan to replace artificial bank stabilization structures	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Development	1, 4	2B	5	398000	0	0	0	0	398000
CC-SCCCS-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable stormwater permits	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0
CC-SCCCS-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., Los Osos Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
CC-SCCCS-14.3	Review, assess and modify residential and commercial wastewater septic treatment facilities	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	100	0	0	0	0	0	0
CC-SCSS-15.1	Develop and implement an integrated wildland fire and hazardous fuels management plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, CCSE, TCFT, MBNEP, TU	Wildfires	1, 4	2B	100	0	0	0	0	0	0
Los Osos Creek												
LO-SCCCS-1.1	Development, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, TCLT, CCSE, TCFT, MBNEP, TU	Agricultural Development	1, 4	1B	20	0	0	0	0	0	0
LO-SCCCS-1.2	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CCSE, CSLRDC, TCLT, CCSE, TCFT, MBNEP, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0
LO-SCCCS-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCRDC, CSLRDC, CCSE, TCFT, MBNEP, TU	Agricultural Effluents	1, 4	1B	100	0	0	0	0	0	0
LO-SCCCS-3.1	Conduct watershed-wide fish passage barrier assessment (or review and update)	NMFS, CDFW, CCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	96690	0	0	0	0	96690
LO-SCCCS-3.2	Develop and implement a plan to remove or modify passage barriers in the watershed (or review and update)	NMFS, CDFW, CCON, SLOC, SLOCFB, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	0	0	0	0	0	0
LO-SCCCS-4.1	Develop and implement water management plan for diversion operations	NMFS, CDFW, CCON, SLOC, CCSE, TCFT, MBNEP, TU	Dams and Surface Water	1, 3, 4	1A	5	91850	0	0	0	0	91850

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
			Diversions									
LO-SCCCS-4.2	Develop and implement water management plan for dam operations	NMFS, CDFW, CCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
LO-SCCCS-4.3	Provided fish passage around dams and diversions	NMFS, CDFW, CCON, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	0	0	0	0	0	0
LO-SCCCS-5.1	Develop and implement flood control maintenance program	ACOE, NMFS, NRCS, SLOC, SLOCFB, USGS, CDFW, CCSE, TCFT, MBNEP, TU	Flood Control Maintenance	1, 4	1B	100	0	0	0	0	0	0
LO-SCCCS-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, RWQCB, CDFW, SLOC, SLOCFB, CCSE, TCFT, TU	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	91850
LO-SCCCS-6.2	Develop and implement groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, RWQCB, CDFW, SLOC, SLOCFB, CCSE, TCFT, MBNEP, TU	Groundwater Extraction	1, 4	1B	10	254350	39775	0	0	0	294125
LO-SCCCS-7.1	Develop and implement plan to restore natural channel features	NRCS, FEMA, NMFS, CDFW SLOC, CCRDC, CSLRCD, CCSE, TCFT, MBNEP, TU	Levees and Channelization	1, 4	2B	100	0	0	0	0	0	0
LO-SCCCS-7.2	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, CCRDC, CSLRCD, CCSE, TCFT, MBNEP, TU	Levees and Channelization	1, 4	2B	100	0	0	0	0	0	0
LO-SCCCS-9.1	Develop and implement a watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
LO-SCCCS-9.2	Develop and implement a non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	20	76140	76140	76140	76140	0	304560
LO-SCCCS-9.3	Develop and implement a public educational program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Non-Native Species	1, 3, 4	2B	20	0	0	0	0	0	0
LO-SCCCS-10.1	Review and modify development and management plans for recreational areas and national forests	USFWS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
LO-SCCCS-10.2	Develop and implement public education program on watershed processes	USFWS, NMFS, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, MBNEP, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
LO-SCCCS-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	2B	20	32260	32260	32260	32260	0	129040
LO-SCCCS-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	2B	20	0	0	0	0	0	0
LO-SCCCS-11.3	Develop and implement plan to remove or reduce approach-fill for railroad lines and roads	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Roads	1, 4	2B	5	6700000	0	0	0	0	6700000
LO-SCCCS-12.1	Develop and implement an estuary restoration and management plan	USFWS, NMFS, CDOT, SLOC, SLOCFB, CDPR, CDFW, CCSE, TCFT, MBNEP, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	62400	0	0	0	0	62400

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
LO-SCCCS-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1B	5	62400	0	0	0	0	62400
LO-SCCCS-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0
LO-SCCCS-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0
LO-SCCCS-14.1	Review California Regional Water Quality Control Board Central Coast Region Basin Plans and modify applicable stormwater permits	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0
LO-SCCCS-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., Los Osos Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT, MBNEP, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0
LO-SCCCS-15.1	Development and implement an integrated wildland fire and hazardous fuels management plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, CCSE, TCFT, MBNEP, TU	Wildfires	1, 4	2B	5	0	0	0	0	0	0

Table 12-12. South-Central California Steelhead DPS Recovery Action Table for the San Luis Obispo Creek (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
San Luis Obispo Creek												
SLO-SCCCS-1.1	Develop, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CCLO, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	20	0	0	0	0	0	0
SLO-SCCCS-1.2	Manage livestock grazing to maintain or restore aquatic habitat functions	NMFS, USFS, SLOC, SLOCFB, CCLO, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	5	47520	0	0	0	0	47520
SLO-SCCCS-1.3	Manage agricultural development and restore riparian zones	NMFS, USFS, SLOC, SLOCFB, CCLO, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0
SLO-SCCCS-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, CSLO, CCRCDC, CSLRDC, CCSE, TCFT, TU	Agricultural Effluents	1, 4	1B	100	0	0	0	0	0	0
SLO-SCCCS-3.1	Conduct watershed-wide fish passage barrier assessment (or review and update)	NMFS, CDFW, CCCON, SLOC, CSLO, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	96690	0	0	0	0	96690
SLO-SCCCS-3.1	Develop and implement a plan to remove or modify passage barriers in the watershed (e.g., San Luis Obispo County Stream Crossing Inventory and Fish Passage Evaluation, 2005; and San Luis Obispo Creek Watershed	NMFS, CDFW, CCCON, SLOC, SLOCFB, CSLO, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)						
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100	
	Enhancement Plan, 2002)												
SLO-SCCCS-4.1	Develop and implement water management plan for diversion operations	NMFS, CDFW, CCON, SLOC, SLOCFB, CSLO, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	0	91850
SLO-SCCCS-4.2	Develop and implement water management plan for dam operations	NMFS, CDFW, CCON, SLOC, SLOCFB, CSLO, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	0	91850
SLO-SCCCS-4.3	Provide fish passage around dams and diversions	NMFS, CDFW, CCON, SLOC, SLOCFB, CSLO, CCSE, TCFT	Dams and Surface Water Diversions	1, 3, 4	1A	5	TBD	TBD	TBD	TBD	TBD	TBD	TBD
SLO-SCCCS-5.1	Develop and implement flood control maintenance program	ACOE, NMFS, NRCS, SLOC, CSLO, USGS, CDFW, CCSE, TCFT, TU	Flood Control Maintenance	1, 4	1B	100	0	0	0	0	0	0	0
SLO-SCCCS-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, CSLO, CCSE, TCFT, TU	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	0	91850
SLO-SCCCS-6.2	Develop and implement a groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, CSLO, CCSE, TCFT	Groundwater Extraction	1, 4	1B	10	254350	39775	0	0	0	0	294125
SLO-SCCCS-7.1	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW, SLOC, SLOCFB, CSLO, CCRDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	100	0	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SLO-SCCCS-7.2	Develop and implement stream bank and riparian corridor restoration plan	NRCS, FEMA, NMFS, CDFW, SLOC, SLOCFB, CSLO, CCRCDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	5	10521940	0	0	0	0	10521940
SLO-SCCCS-9.1	Develop and implement a watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, CSLO, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0
SLO-SCCCS-9.2	Develop and implement a non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, CSLO, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0
SLO-SCCCS-9.3	Develop and implement a public educational program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CSLO, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	20	76140	76140	76140	76140	0	304560
SLO-SCCCS-10.1	Review and modify development and management plans for recreational areas and national forests	USFWS, NMFS, CSLO, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, TU	Recreational Facilities	1, 3, 4, 5	2B	20	0	0	0	0	0	0
SLO-SCCCS-10.2	Develop and implement public education program on watershed processes	USFWS, NMFS, CSLO, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
SLO-SCCCS-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CSLO, CDFW, CCSE, TCFT, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
SLO-SCCCS-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CSLO, CDFW, CCSE, TCFT, TU	Roads	1, 4	1B	20	32260	32260	32260	32260	0	129040

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SLO-SCCCS-11.3	Develop and implement plan to remove or reduce approach-fill for railroad lines and roads	USDOT, NMFS, CDFW, USFS, CDOT, SLOC, SLOCFB, CDPR, CSLO, CDFW, CCSE, TCFT, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
SLO-SCCCS-12.1	Develop and implement an estuary restoration and management plan	USFWS, NMFS, CDOT, SLOC, SLOCFB, CSLO, CDPR, CDFWCCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	4020000	0	0	0	0	4020000
SLO-SCCCS-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, NMFS, CDFW, CCSE, TCFT	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	62400	0	0	0	0	62400
SLO-SCCCS-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CSLO, CCSE, TCFT, TU	Urban Development	1, 4	2B	5	62400	0	0	0	0	62400
SLO-SCCCS-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, SLOCFB, NMFS, CDFW, CSLO, CCSE, TCFT, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0
SLO-SCCCS-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, SLOCFB, CSLO, NMFS, CDFW, CCSE, TCFT	Urban Effluents	1, 4	1B	20	0	0	0	0	0	0
SLO-SCCCS-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., City of San Luis Obispo and Avila Wastewater Treatment Facilities)	RWQCB, SWRCB, SLOC, SLOCFB, CSLO, NMFS, CDFW, CCSE, TCFT, TU	Urban Effluents	1, 4	1B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
SLO-SCCCS-15.1	Develop and implement an integrated wildland fire and hazardous fuels management plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, CCSE, TCFT, TU	Wildfires	1, 4	2B	100	0	0	0	0	0	0

Table 12-13. South-Central California Steelhead DPS Recovery Action Table for the Pismo Creek (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Pismo Creek												
Pis-SCCCS-1.1	Develop, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, COPB, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	20	0	0	0	0	0	0
Pis-SCCCS-1.2	Manage livestock grazing to maintain or restore aquatic habitat features	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, COPB, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	5	47520	0	0	0	0	47520
Pis-SCCCS-1.3	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, COPB, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0
Pis-SCCCS-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, COPB, CCRCDC, CSLRDC, CCSE, TCFT, TU	Agricultural Effluents	1, 4	1B	100	0	0	0	0	0	0
Pis-SCCCS-3.1	Conduct watershed-wide fish passage barrier assessment (or review and update)	NMFS, CDFW, CCCON, SLOC, COPB, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	96690	0	0	0	0	96690
Pis-SCCCS-3.2	Develop and implement plan to remove or modify fish passage barriers in the watershed (e.g., San Luis Obispo County Stream Crossing Inventory and Fish Passage Evaluation, 2005)	NMFS, CDFW, CCCON, SLOC, SLOCFB, COPB, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Pis-SCCCS-4.1	Develop and implement water management plan for diversion operations	NMFS, CDFW, CCCON, SLOC, SLOCFB, COPB, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
Pis-SCCCS-4.2	Develop and implement water management plan for dam operations (e.g., Righetti Dam on West Corral de Piedra Creek)	NMFS, CDFW, CCCON, SLOC SLOCFB,, COPB, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
Pis-SCCCS-4.3	Provide fish passage around dams and diversions	NMFS, CDFW, CCCON, SLOC, SLOCFB, COPB, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	TBD	TBD	TBD	TBD	TBD	TBD
Pis-SCCCS-5.1	Develop and implement flood control maintenance program	ACOE, NMFS, NRCS, SLOC, SLOCFB, CPPB, USGS, CDFW, CCSE, TCFT, TU	Flood Control Maintenance	1, 4	1B	100	0	0	0	0	0	0
Pis-SCCCS-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, COPB, CCSE, TCFT	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	91850
Pis-SCCCS-6.2	Develop and implement a groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, COPB, CCSE, TCFT, TU	Groundwater Extraction	1, 4	1B	10	254350	39775	0	0	0	294125
Pis-SCCCS-7.1	Develop and implement plan to restore natural channel features	NRCS, FEMA, NMFS, CDFW, SLOC, SLOCFB, COPB, CCRDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	100	0	0	0	0	0	0
Pis-SCCCS-7.2	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW SLOC, COPB, CCRDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	5	10521940	0	0	0	0	10521940

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Pis-SCCCS-7.3	Develop and implement stream bank and riparian corridor restoration plan	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, COPB, CCRCDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	100	0	0	0	0	0	0
Pis-SCCCS-9.1	Develop and implement a watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CSLO, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0
Pis-SCCCS-9.2	Develop and implement a non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CSLO, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	20	76140	76140	76140	76140	0	304560
Pis-SCCCS-9.3	Develop and implement a public educational program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, CSLO, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	20	0	0	0	0	0	0
Pis-SCCCS-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., Pismo State Beach)	USFWS, NMFS, COPB, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
Pis-SCCCS-10.2	Develop and implement public education program on watershed processes	USFWS, NMFS, COPB, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
Pis-SCCCS-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, CDOT, SLOC, CDPR, SLOCFB, COPB, CDFW, CCSE, TCFT, TU	Roads	1, 4	1B	20	32260	32260	32260	32260	0	129040

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Pis-SCCCS-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, CDOT, SLOC, CDFW, SLOCFB, COPB, CDFW, CCSE, TCFT, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
Pis-SCCCS-11.3	Develop and implement plan to remove or reduce approach-fill for railroad lines and road	USDOT, NMFS, CDFW, CDOT, SLOC, CDFW, SLOCFB, COPB, CDFW, CCSE, TCFT	Roads	1, 4	1B	5	3082000	0	0	0	0	3082000
Pis-SCCCS-12.1	Develop and implement an estuary restoration and management	USFWS, NMFS, CDOT, SLOC, COPB, CDFW, SLOCFB, CDFW, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
Pis-SCCCS-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, COPB, NMFS, CDFW, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	62400	0	0	0	0	62400
Pis-SCCCS-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, SLOCFB, NMFS, CDFW, COPB, CCSE, TCFT, TU	Urban Development	1, 4	1B	20	0	0	0	0	0	0
Pis-SCCCS-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, SLOCFB, NMFS, CDFW, COPB, CCSE, TCFT, TU	Urban Development	1, 4	1B	5	398000	0	0	0	0	398000
Pis-SCCCS-13.3	Develop and implement riparian restoration plan to replace artificial bank stabilization structures	CCCOM, SLOC, SLOCFB, NMFS, CDFW, COPB, CCSE, TCFT, TU	Urban Development	1, 4	1B	20	0	0	0	0	0	0
Pis-SCCCS-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable stormwater permits	RWQCB, SWRCB, SLOC, SLOCFB, COPB, NMFS, CDFW, CCSE, TCFT, TU	Urban Effluents	1, 4	1B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
Pis-SCCCS-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., Pismo Beach Wastewater Treatment Facility and Cypress Ridge Wastewater Treatment Facility)	RWQCB, SWRCB, SLOC, SLOCFB, COPB, NMFS, CDFW, CCSE, TCFT	Urban Effluents	1, 4	1B	100	0	0	0	0	0	0
Pis-SCCCS-15.1	Develop and implement an integrated wildland fire and hazardous fuel management plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, CCSE, TCFT, TU	Wildfires	1, 4	2B	20	0	0	0	0	0	0

Table 12-14. South-Central California Steelhead DPS Recovery Action Table for the Arroyo Grande Creek (San Luis Obispo Terrace BPG).

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)						
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100	
Arroyo Grande Creek													
AG-SCCC S-1.1	Develop, adopt, and implement agricultural land-use planning policies and standards	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, AG, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	20	0	0	0	0	0	0	0
AG-SCCC S-1.2	Manage livestock grazing to maintain or restore aquatic habitat functions	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, AG, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	5	47520	0	0	0	0	0	47520
AG-SCCC S-1.3	Manage agricultural development and restore riparian zones	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, AG, CCRCDC, CCSE, CSLRDC, CCSE, TCFT, TU	Agricultural Development	1, 4	1B	5	0	0	0	0	0	0	0
AG-SCCC S-2.1	Develop and implement plan to minimize runoff from agricultural activities	NRCS, BLM, NMFS, USFS, SLOC, SLOCFB, AG, CCRCDC, CSLRDC, CCSE, TCFT, TU	Agricultural Effluents	1, 4	1B	100	0	0	0	0	0	0	0
AG-SCCC S-3.1	Conduct watershed-wide fish passage barrier assessment (or review and update)	NMFS, CDFW, CCON, SLOC, SLOCFB, AG, CCSE, TCFT, TU	Culverts and Road Crossings (Passage Barriers)			5	96690	0	0	0	0	0	96690
AG-SCCC S-3.2	Develop and implement a plan to remove or modify fish passage barriers in the watershed (e.g., San Luis Obispo County Stream Crossing Inventory and Fish Passage Evaluation, 2005)	NMFS, CDFW, CCON, SLOC, SLOCFB, AG, CCSE, TCFT	Culverts and Road Crossings (Passage Barriers)	1, 4	1A	5	0	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
AG-SCCC S-4.1	Develop and implement water management plan for diversion operations	NMFS, CDFW, CCON, SLOC, SLOCFB, AG, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
AG-SCCC S-4.2	Develop and implement water management plan for dam operations (e.g., Lopez Dam)	NMFS, CDFW, CCON, SLOC, SLOCFB, AG, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	5	91850	0	0	0	0	91850
AG-SCCC S-4.3	Provide fish passage around dams and diversions	NMFS, CDFW, CCON, SLOC, SLOCFB, AG, CCSE, TCFT, TU	Dams and Surface Water Diversions	1, 3, 4	1A	10	TBD	TBD	TBD	TBD	TBD	TBD
AG-SCCC S-5.1	Develop and implement flood control maintenance program	ACOE, NMFS, NRCS, SLOC, SLOCFB, AG, USGS, CDFW, CCSE, TCFT, TU	Flood Control Maintenance	1, 4	1B	100	0	0	0	0	0	0
AG-SCCC S-6.1	Conduct groundwater extraction analysis and assessment (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, AG, CCSE, TCFT, TU	Groundwater Extraction	1, 4	1B	5	91850	0	0	0	0	91850
AG-SCCC S-6.2	Develop and implement a groundwater monitoring and management program (or review and update)	NMFS, USFS, USGS, CDFW, SLOC, SLOCFB, AG, CCSE, TCFT	Groundwater Extraction	1, 4	1B	10	254350	39775	0	0	0	294125
AG-SCCC S-7.1	Develop and implement plan to restore natural channel features	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, AG, CCRDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	100	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
AG-SCCC S-7.2	Develop and implement plan to vegetate levees and eliminate or minimize herbicide use near levees	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, AG, CCRCDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	5	10521940	0	0	0	0	10521940
AG-SC3S-7.3	Develop and implement stream bank and riparian corridor restoration plan	NRCS, FEMA, NMFS, CDFW SLOC, SLOCFB, AG, CCRCDC, CSLRCD, CCSE, TCFT, TU	Levees and Channelization	1, 4	1B	100	0	0	0	0	0	0
AG-SCCC S-9.1	Develop and implement a watershed-wide plan to assess the impacts of non-native species and develop control measures	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, AG, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	100	0	0	0	0	0	0
AG-SCCC S-9.2	Develop and implement a non-native species monitoring program	USFWS, USFS, NMFS, CDFW, CDPR, SLOCFB, AG, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	20	76140	76140	76140	76140	0	304560
AG-SCCC S-9.3	Develop and implement a public educational program on non-native species impacts	USFWS, USFS, NMFS, CDFW, CDPR SLOCFB, AG, CNPS, CCSE, TCFT, TU	Non-Native Species	1, 3, 4	2B	20	0	0	0	0	0	0
AG-SCCC S-10.1	Review and modify development and management plans for recreational areas and national forests (e.g., Pismo Dunes Natural Preserve Management Plan)	USFWS, NMFS, AG, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	76140	76140	76140	76140	0	304560
AG-SCCC S-10.2	Develop and implement a public educational program on watershed processes	USFWS, NMFS, AG, CDFW, CDPR, SLOCFB, CNPS, CCSE, TCFT, TU	Recreational Facilities	1, 2, 3, 4, 5	2B	20	0	0	0	0	0	0
AG-SCCC S-11.1	Manage roadways and adjacent riparian corridor and restore abandoned roadways	USDOT, NMFS, CDFW, CDOT, SLOC, SLOCFB, CDPR, AG, CDFW, CCSE, TCFT, TU	Roads	1, 4	1B	20	32260	32260	32260	32260	0	129040

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
AG-SCCC S-11.2	Retrofit storm drains to filter runoff from roadways	USDOT, NMFS, CDFW, CDOT, SLOC, SLOCFB, CDPR, AG, CDFW, CCSE, TCFT, TU	Roads	1, 4	1B	20	0	0	0	0	0	0
AG-SCCC S-11.3	Develop and implement plan to remove or reduce approach-fill for railroad lines and roads	USDOT, NMFS, CDFW, CDOT, SLOC, SLOCFB, CDPR, AG, CDFW, CCSE, TCFT, TU	Roads	1,4	1B	5	6097000	0	0	0	0	6097000
AG-SCCC S-12.1	Develop and implement an estuary restoration and management plan	USFWS, NMFS, CDOT, SLOC, SLOCFB, AG, CDPR, CDFW, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	1A	5	62400	0	0	0	0	62400
AG-SCCC S-12.2	Review and modify applicable County and/or City Local Coastal Plans	RWQCB, SWRCB, SLOC, SLOCFB, AG, NMFS, CDFW, CCSE, TCFT, TU	Upslope/Upstream Activities	1, 2, 3, 4, 5	2B	5	62400	0	0	0	0	62400
AG-SCCC S-13.1	Develop, adopt, and implement urban land-use planning policies and standards	CCCOM, SLOC, SLOCFB, NMFS, CDFW, AG, CCSE, TCFT, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0
AG-SCCC S-13.2	Retrofit storm drains in developed areas	CCCOM, SLOC, SLOCFB, NMFS, CDFW, AG, CCSE, TCFT, TU	Urban Development	1, 4	2B	5	398000	0	0	0	0	398000
AG-SCCC S-13.3	Develop and implement riparian restoration plan to replace artificial bank stabilization structures	CCCOM, SLOC, SLOCFB, NMFS, CDFW, AG, CCSE, TCFT, TU	Urban Development	1, 4	2B	20	0	0	0	0	0	0

Action #	Recovery Action Description	Potential Collaborators	Threat Source	Listing Factors (1 - 5)	Action Rank (1A, 1B, 2A, 2B, 3A, 3B)	Task Duration	Fiscal Year Costs (\$K)					
							FY 1-5	FY 6-10	FY 11-15	FY 16-20	FY 21-25	FY 1-100
AG-SCCC S-14.1	Review California Regional Water Quality Control Board Watershed Plans and modify applicable Stormwater Permits	RWQCB, SWRCB, SLOC, SLOCFB, AG, NMFS, CDFW, CCSE, TCFT, TU	Urban Effluents	1, 4	2B	20	0	0	0	0	0	0
AG-SCCC S-14.2	Review, assess and modify if necessary all NPDES wastewater discharge permits (e.g., South San Luis Obispo Sanitation District Wastewater Treatment Facility and Cypress Ridge Wastewater Treatment Facility)	RWQCB, SWRCB, SLOC, SLOCFB, AG, NMFS, CDFW, CCSE, TCFT, TU	Urban Effluents	1, 4	2B	100	0	0	0	0	0	0
AG-SCCC S-15.1	Develop and implement an integrated wildland fire and hazardous fuels management plan	CDF&FP, USFS, USFWS, SLOC, SLOCFB, NMFS, CDFW, LPFW, CCSE, TCFT, TU	Wildfires	1, 4	2B	20	0	0	0	0	0	0