

\$108,479,556 total funding to date for San Joaquin River and lower Central Valley CALFED ERP actions and funding as sown on the California website as of 10/7/2013: https://nrm.dfg.ca.gov/ERP/projects.aspx					
ERPNumber	DFGContractNum	TotalFundingAmou	AmendedEndDate	ProjectName	Recipient
AFRP-10-001	81332-8-G006	\$95,400		Tuolumne River Bobcat Flat (Complete Permitting and Begin Implementation with Gravel Augmentation on Patch 3)	
AFRP-10-002	81332-7-G006	\$123,569		Stanislaus River Floodplain and Sidechannel Restoration Lancaster Rd (Post Project Monitoring and Evaluation)	
AFRP-10-003	81332-8-G010	\$295,220		Merced River Ranch Floodplain Enhancement (Complete Phase I, Reclamation Plan, and Phase 2 of 3 begin implementation and process 16,000 tons of gravel)	
AFRP-10-004	81332-8-G015	\$55,057		Stanislaus River Honolulu Bar Floodplain Restoration (Post Project Monitoring)	
AFRP-10-008	81332-A-J005	\$200,000		Stanislaus River Lovers Leap Floodplain Restoration (Post Project Monitoring)	
CVPIA-01-F02		\$672,610		Spawning Habitat & Floodplain Restoration in the Stanislaus River, Phase I	Carl Mesick Consultants
CVPIA-01-F03		\$57,465	3/31/2005 0:00	Non-Structural Alternative at the San Joaquin River National Wildlife Refuge: Refinement for Habitat Enhancement	Ducks Unlimited
CVPIA-01-F04		\$62,000		Tuolumne River Watershed Outreach and Stewardship	Tuolumne River Preservation Trust
CVPIA-01-F07		\$45,000	12/31/2003 0:00	Merced River Water Temperature Management Feasibility Study	Natural Resource Scientists, Inc.
CVPIA-01-F09		\$45,262	9/30/2005 0:00	San Joaquin River Chinook Salmon Age Determinations: Phase II	California Department of Fish and Game
CVPIA-01-F10		\$40,890		Health Monitoring of Hatchery and Natural Fall-Run Chinook Juveniles	U.S. Fish and Wildlife Service
CVPIA-01-F11		\$26,319	9/30/2003 0:00	Evaluate Use of a Two-Dimensional Hydraulic and Habitat Simulation Model to Assess Benefits of Channel Restoration	Yolo County Resource Conservation District
CVPIA-01-F14		\$518,670	12/31/2005 0:00	Tuolumne River Mining Reach Restoration No 3 - Warner-Deardorff Segment	Turlock Irrigation District
CVPIA-02-V01		\$158,756		Distribution and Relationship of Resident and Anadromous Central Valley Rainbow Trout	California Department of Fish and Game
ERP-00-B04		\$295,925	3/30/2003 0:00	Focused Action to Develop Ecologically-based Hydrologic Models and Water Management Strategies in the San Joaquin Basin	Natural Heritage Institute
ERP-00-B05		\$652,330	6/30/2004 0:00	Adaptive Real-Time Water Quality Management of Seasonal Wetlands in the Grassland Water District	Grassland Water District
ERP-00-E02		\$848,000	6/30/2005 0:00	Panoche/Silver Creek Watershed Management and Action Plan	Westside RCD
ERP-00-E05		\$272,912	11/1/2002 0:00	Merced River Corridor Restoration Project - Phase III	Stillwater Sciences
ERP-00-F01		\$1,984,320	11/1/2006 0:00	Tuolumne River Bobcat Flat Floodplain Acquisition Project	Friends of the Tuolumne
ERP-00-F04		\$230,376	3/31/2006 0:00	A Mechanistic Approach to Riparian Restoration in the San Joaquin Basin	Stillwater Sciences
ERP-01-C03		\$1,699,101		Revised Phase II - Merced River Salmon Habitat Enhancement River Miles 42 to 44 (Robinson Reach and Permit #307 sites)	California Department of Water Resources
ERP-01-C06-D		\$115,000		Directed Action for Selenium	None Assigned
ERP-01-C61-4-D		\$276,000		Monitoring of Nutrients and Oxygen-Depleting Substances in the San Joaquin River Basin Upstream of Vernalis	U.S. Geological Survey
ERP-01-N03	P0685620	\$543,530	6/30/2006 0:00	Tuolumne River Restoration: Special Run Pool 10	Turlock Irrigation District
ERP-01-N08	P0685591	\$7,646,233	12/31/2006 0:00	San Joaquin River NWR Riparian Habitat Protection & Floodplain Restoration Project - Phase II	U.S. Fish and Wildlife Service
ERP-01-N09	P0685592	\$910,486	12/31/2007 0:00	Tuolumne River Fine Sediment Management	Turlock Irrigation District
ERP-01-N11	P0685594	\$2,720,085	12/31/2006 0:00	Habitat Acquisition for Riparian Brush Rabbit and Riparian Woodrat	U.S. Fish and Wildlife Service
ERP-01-N29		\$198,450	7/16/2004 0:00	Kirker Creek Coordinated Resource Management & Planning Program	Contra Costa RCD
ERP-01-N30		\$502,100		Digital Soil Survey Mapping and Digital Orthophotoquad Imagery Development	Natural Resources Conservation Service
ERP-01-N32		\$126,000		Marsh Creek Watershed Stewardship	Natural Heritage Institute
ERP-01-N37		\$48,500		Environmental Stewardship Educational Conferences & Tours	Ecological Farming Association
ERP-01-N38		\$306,291	6/30/2004 0:00	Delta Studies Program: San Joaquin County Schools	San Joaquin County Office of Education
ERP-01-N42		\$1,066,593	1/31/2005 0:00	Educating Farmers and Landowners in Biological Resource Management	Community Alliance with Family Farmers
ERP-01-N56		\$175,000	12/31/2002 0:00	Patterson Irrigation District Positive Barrier Fish Screen Study on San Joaquin River Diversion	Patterson Irrigation District
ERP-01-N61		\$1,645,000	2/28/2003 0:00	Aeration Technology Performance Evaluation	G. Fred Lee and Associates
ERP-01-N61-01		\$158,000	2/28/2003 0:00	San Joaquin River Dissolved Oxygen Depletion Control Project: Coordination, Integration, and Technical Administration	G. Fred Lee and Associates
ERP-01-N61-02		\$100,000	8/31/2002 0:00	San Joaquin River Dissolved Oxygen Depletion Control Project: San Joaquin River Diversion Data Assimilation, Drainage Estimation, and Installation of Diversion Mor	G. Fred Lee and Associates
ERP-02-D01		\$706,649		Tuolumne River - Big Bend Project	Tuolumne River Preservation Trust
ERP-02-P11		\$1,497,500	6/30/2006 0:00	Cultivating Watershed Stewardship	FARMS Leadership, Inc.
ERP-02-P12-D	P0685545	\$2,192,515	1/31/2007 0:00	Merced River Corridor Restoration Plan Phase IV: Dredger Tailings Reach (Merced River Ranch)	Stillwater Sciences
ERP-02-P16	P0685547	\$611,000	2/12/2007 0:00	Patterson Irrigation District Fish Screen Design and Environmental Review	Patterson Irrigation District
ERP-02-P19-D		\$0		Tuolumne River Mining Reach Restoration Project: Warner-Deardorff Segment No. 3 - Construction	Turlock Irrigation District
ERP-02-P28	P0685560	\$661,902	10/31/2006 0:00	Stanislaus - Lower San Joaquin River Water Temperature Modeling and Analysis	Tri-Dam Project
ERP-02-P29	P0685559	\$4,350,000	12/31/2008 0:00	Tuolumne River Sediment Acquisition and Spawning Ground Transfusion Project	Turlock Irrigation District

ERP-02-P38	P0685565	\$562,924	2/29/2008 0:00	Effects of Climate Variability and Change on the Vegetation and Hydrology of the Bay-Delta Watershed	Regents of the University of California
ERP-02-P44		\$280,890	9/30/2004 0:00	Full-Scale Demonstration of Agricultural Drainage Water Recycling Process Using Membrane Technology	WaterTech Partners
ERP-02D-C11	P0685579	\$5,465,944	12/31/2012 0:00	Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the Lower Stanislaus River	U.S. Fish and Wildlife Service
ERP-02D-P52	P0685577	\$356,400	10/15/2007 0:00	Big Break and Marsh Creek Water Quality and Habitat Restoration Program	State Coastal Conservancy
ERP-02D-P57	P0685523	\$998,222	1/31/2007 0:00	Biological Assessment of Green Sturgeon in the Sacramento - San Joaquin Watershed	University of California, Davis
ERP-02D-P63	P0685528	\$6,807,428	6/30/2008 0:00	Monitoring and Investigations of the San Joaquin River and Tributaries Related to Dissolved Oxygen	San Joaquin Valley Drainage Authority
ERP-02D-P68	P0685532	\$1,840,791	9/14/2010 0:00	Arundo Eradication and Coordination, Phase II	Sonoma Ecology Center
ERP-04-S04		\$2,430,000		Tuolumne River Restoration Monitoring	Turlock Irrigation District
ERP-04-S14	E0883007	\$111,000	2/28/2012 0:00	Terrestrial Weed Eradication Monitoring Protocol	Sonoma Ecology Center
ERP-04D-S22	P0685628	\$250,000	6/30/2010 0:00	San Joaquin River Fall-Run Chinook Salmon Population Model Refinement Project	California State University, Fresno Foundation
ERP-05D-S02	Internal # BDA001	\$781,000		Data Collection for the San Joaquin Basin-wide Temperature Model	California Department of Fish and Game
ERP-05D-S04	P0685618	\$373,351	6/30/2011 0:00	Development of a Comprehensive Central Valley Adult Chinook Salmon Escapement Monitoring Plan	Pacific States Marine Fisheries Commission
ERP-05D-S05	P0685619	\$367,888	6/30/2010 0:00	Development of a Central Valley Steelhead Comprehensive Monitoring Plan	Pacific States Marine Fisheries Commission
ERP-05D-S10	BDA009-05	\$260,000		Wetland Response to Modified Hydrology with Respect to Salinity Management	California Department of Fish and Game
ERP-06D-S20	P0685518	\$716,052	12/31/2008 0:00	San Joaquin River Basin Water Temperature Modeling and Analysis	Tri-Dam Project
ERP-08D-S02	Internal	\$79,838		Gasburg Creek Revegetation Project	California Department of Fish and Game
ERP-08D-S05	P0840012	\$350,000	12/31/2012 0:00	Refine the fall-run chinook salmon population model	California State University, Fresno Foundation
ERP-09D-S04	E0920008	\$4,565,725	6/30/2012 0:00	Patterson Irrigation District Fish Screen Construction Project	Patterson Irrigation District
ERP-10D-S05	E1183020	\$2,600,000		West Stanislaus Irrigation District Fish Screen Intake Final Design Planning, Environmental Compliance and Permitting Project	Western Stanislaus Irrigation District
ERP-95-M06		\$660,000	12/30/1998 0:00	Biologically Integrated Orchard System Almond Expansion Project	Community Alliance with Family Farmers
ERP-97-B04		\$10,647,000	3/31/2002 0:00	San Joaquin River National Wildlife Refuge Riparian Habitat Protection and Floodplain Restoration Project - Phase I	U.S. Fish and Wildlife Service
ERP-97-B05		\$334,000	9/30/2000 0:00	Feasibility Analysis for the San Joaquin-Bear Creek Floodplain Restoration Project, San Luis National Wildlife Refuge, Merced County	U.S. Fish and Wildlife Service
ERP-97-C08		\$931,857	6/30/2002 0:00	San Joaquin River Real Time Water Quality Management Program	California Department of Water Resources
ERP-97-C09		\$387,003	6/30/2002 0:00	San Joaquin River Drainage Fall-Run Chinook Salmon Genetic Baseline and Discrimination Evaluation	California Department of Fish and Game
ERP-97-C11		\$250,975	12/31/2001 0:00	Spawning Gravel Introduction, Tuolumne River, La Grange	California Department of Fish and Game
ERP-97-M08		\$2,253,100		Tuolumne River Channel Restoration (Pool 9)	Turlock Irrigation District
ERP-97-M09		\$2,801,000	12/31/2004 0:00	Tuolumne River Setback: Dikes and Channel Restoration, Mining Reach 7/11 Segment	Turlock Irrigation District
ERP-97-N21		\$536,410	3/15/2002 0:00	Knights Ferry Gravel Replenishment	Carl Mesick Consultants
ERP-98-B07		\$1,589,000	12/31/2001 0:00	Evaluation of Selenium Sources, Levels, and Consequences in the Delta	U.S. Geological Survey
ERP-98-B14		\$1,149,000	9/30/2002 0:00	Irrigation Drainage Water Treatment for Selenium Removal: Panoche Drainage District Demonstration Facility	University of California, Berkeley
ERP-98-B30		\$3,000		San Joaquin Valley "Salmonids in the Classroom" Program Enhancement	California Department of Fish and Game
ERP-98-B32		\$28,000		Conferences and Field Tours for Viable Solutions to the Agriculturally Impacted San Joaquin River Watershed Region	Committee for Sustainable Agriculture
ERP-98-B40		\$55,255		Increase Public Awareness of the Riparian Habitat and Ecosystems of the Tuolumne River	City of Modesto
ERP-98-C04/C05		\$830,500		Basso Bridge Ecological Reserve and Merced River Ranch Land Acquisitions	California Department of Fish and Game
ERP-98-C08		\$500,000	11/30/2002 0:00	Algae Toxicity Study	Central Valley Regional Water Quality Control Board
ERP-98-C15		\$241,000	10/31/2001 0:00	Biological Assessment of Green Sturgeon in the Sacramento-San Joaquin Watersheds	University of California, Davis
ERP-98-E09		\$300,000		Merced River Corridor Restoration Plan - Phase II	Stillwater Sciences
ERP-98-F06		\$1,693,000	6/30/2004 0:00	Tuolumne River Floodway Emergency Repair and Long-Term Habitat Restoration Project (7/11)	Turlock Irrigation District
ERP-98-F07		\$732,000	10/31/2007 0:00	Grayson River Ranch Perpetual Conservation Easement and Restoration	East Stanislaus Resource Conservation District
ERP-98-F11		\$2,433,000		Merced River Salmon Habitat Enhancement - Phase III (Robinson Reach)	California Department of Water Resources
ERP-98-F21		\$1,100,000	9/30/2002 0:00	Lower San Joaquin River Floodplain Protection and Restoration Project	U.S. Fish and Wildlife Service
ERP-99-B04		\$125,000	4/30/2003 0:00	Preliminary Design and Engineering of Lower Western Stone Site, Merced River Salmon Habitat Enhancement Project (Phase IV)	California Department of Water Resources
ERP-99-B05		\$1,584,002		Merced River Salmon Habitat Enhancement Project Phase II- Ratzlaff Reach Construction)	California Department of Water Resources
ERP-99-B14		\$460,000	3/31/2003 0:00	Biological Agricultural Systems in Cotton-BASIC-Reducing Synthetic Pesticides & Fertilizers in the Northern San Joaquin Valley	Sustainable Cotton Project
ERP-99-B19		\$37,860		Health Monitoring of Hatchery and Natural Fall-run Chinook Juveniles in the San Joaquin River and Delta	U.S. Fish and Wildlife Service
ERP-99-B25		\$68,415		River Studies Center Exhibits and Programs	San Joaquin River Parkway and Conservation Trust
ERP-99-B29		\$2,500,000	12/31/2001 0:00	Pilot Project to Benefit Riparian Vegetation Along the San Joaquin River	Friant Water Users Authority

ERP-99-B30		\$3,000,000		Agreement for the Acquisition of Water Between the United States and the Oakdale and South San Joaquin Irrigation Districts	Oakdale & South San Joaquin Irrigation District
ERP-99-F01		\$164,800	3/31/2006 0:00	Tuolumne River Special Run Pool 10 Restoration	U.S. Fish and Wildlife Service
ERP-99-F02		\$3,332,050	3/31/2006 0:00	Tuolumne River Mining Reach Restoration (MJ Ruddy)	Turlock Irrigation District
ERP-99-F08		\$201,306		Purple Loosestrife Prevention, Detection and Control Actions for the Sacramento-San Joaquin River Delta System and Associated Hydrological Units	California Department of Food and Agriculture
ERP-99-N06		\$1,546,016	6/30/2003 0:00	Linked Hydrogeomorphic-Ecosystem Models to Support Adaptive Management: Cosumnes-Mokelumne Paired Basin Project	University of California, Davis
ERP-99-N11		\$127,473	12/31/2003 0:00	Purple Loosestrife Prevention, Detection and Control Actions for the Sacramento - San Joaquin River Delta System and Associated Hydrological Units	California Department of Food and Agriculture
ERP-99-N11b		\$49,865	12/31/2003 0:00	Purple Loosestrife Prevention, Detection and Control Actions for the Sacramento - San Joaquin River Delta System and Associated Hydrological Units	California Department of Food and Agriculture
ERP-99-N13		\$74,951	11/30/2004 0:00	Development of a Comprehensive Implementation Plan for a Statistically-Designed Marking/Tagging and Recovery Program for Central Valley Hatchery-Produced Chinook Salmon	California Department of Fish and Game
ERP-99-N13b		\$74,249	1/31/2004 0:00	Development of a Staged Implementation Plan for Coordinated Marking of Chinook Salmon at Sacramento River System Hatcheries	California State University, Humboldt
ERP-99-R01		\$1,545,000	3/31/2001 0:00	Acquisition of Floodplain Easements - Lower Tuolumne and San Joaquin Rivers	Natural Resources Conservation Service
	Total funding	\$108,479,556			

ProjectType	TopicArea	ProjectStatus	ProposalYear	StartDate	OriginalEndDate	AmendedEndDate	County
Full-Scale Implementation	River Channel Restoration		2010				
Monitoring	Lowland Floodplains and Bypasses		2010				
Full-Scale Implementation	Lowland Floodplains and Bypasses		2010				
Monitoring	Lowland Floodplains and Bypasses		2010				
Monitoring	Lowland Floodplains and Bypasses		2010				
Pilot/Demonstration	River Channel Restoration		2001				Calaveras Stanislaus Tuolumne
Planning	Riparian Habitat Lowland Floodplains and Bypasses	Closed	2001		9/30/2001 0:00	3/31/2005 0:00	Stanislaus
Planning	Local Watershed Stewardship	Closed	2001		9/30/2002 0:00		Stanislaus Tuolumne
Research Planning	Hydrodynamics, Sediment Transport, and Flow Regimes Environmental Water Management	Closed	2001		9/30/2002 0:00	12/31/2003 0:00	Mariposa Merced
Research	Harvestable Species Assessment	Ongoing	2001		9/30/2002 0:00	9/30/2005 0:00	Merced San Joaquin Stanislaus
Monitoring	Harvestable Species Assessment	Closed	2001				Merced San Joaquin Stanislaus
Research	Harvestable Species Assessment River Channel Restoration	Closed	2001		9/30/2003 0:00	9/30/2003 0:00	Merced
Full-Scale Implementation Acquis	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restora	Ongoing	2001		12/31/2002 0:00	12/31/2005 0:00	Stanislaus
Research	At-Risk Species Assessment	Ongoing	2002		12/1/2005 0:00		Calaveras Sacramento San Joaquin Stanislaus Tehama
Research	Hydrodynamics, Sediment Transport, and Flow Regimes Environmental Water Management	Closed	2000	2/15/2001 0:00	7/31/2002 0:00	3/30/2003 0:00	Fresno Madera Mariposa Merced San Joaquin Stanisla
Research Monitoring	Ecosystem Water and Sediment Quality Shallow Water and Marsh Habitat Hydrodynamics, Sedi	Closed	1999	9/22/2000 0:00	9/30/2003 0:00	6/30/2004 0:00	Merced
Pilot/Demonstration Monitoring	Ecosystem Water and Sediment Quality Local Watershed Stewardship	Closed	1999	12/13/2000 0:00	1/31/2003 0:00	6/30/2005 0:00	Fresno San Benito
Research Planning	Local Watershed Stewardship	Closed	2000	11/8/2000 0:00	9/1/2002 0:00	11/1/2002 0:00	Merced Stanislaus
Full-Scale Implementation Acquis	Lowland Floodplains and Bypasses River Channel Restoration	Closed	1999	7/10/2000 0:00	8/1/2003 0:00	11/1/2006 0:00	Stanislaus
Research	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes	Closed	1999	7/2/2001 0:00	12/31/2003 0:00	3/31/2006 0:00	Merced Stanislaus
Full-Scale Implementation	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes Mine Remediation	Closed	2001	7/1/2001 0:00	6/30/2004 0:00		Merced
Research	Ecosystem Water and Sediment Quality	Terminated/C	2001	7/15/2001 0:00	6/14/2004 0:00		Contra Costa
Research	Ecosystem Water and Sediment Quality	Closed	2001		6/30/2004 0:00		Merced San Joaquin Stanislaus
Planning	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes Non-Native Invasive Sp	Closed	2001	11/15/2001 0:00	11/1/2004 0:00	6/30/2006 0:00	Stanislaus
Full-Scale Implementation Monit	Riparian Habitat Lowland Floodplains and Bypasses	Closed	2001	11/1/2001 0:00	9/1/2004 0:00	12/31/2006 0:00	Stanislaus
Full-Scale Implementation	Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restoration	Closed	2001	8/1/2001 0:00	8/31/2004 0:00	12/31/2007 0:00	Stanislaus
Acquisition	Riparian Habitat At-Risk Species Assessment	Closed	2001	2/20/2002 0:00	7/31/2002 0:00	12/31/2006 0:00	San Joaquin Stanislaus
Planning	Local Watershed Stewardship	Closed	2001	6/1/2001 0:00	5/16/2003 0:00	7/16/2004 0:00	Contra Costa
Research	Local Watershed Stewardship	Closed	2001	8/15/2001 0:00	8/15/2004 0:00		Glenn Madera Merced Stanislaus Tehama
Planning Monitoring	Local Watershed Stewardship Environmental Education Hydrodynamics, Sediment Transport, an	Closed	2001	7/3/2001 0:00	6/30/2003 0:00		Contra Costa
Full-Scale Implementation	Environmental Education Upland Habitat and Wildlife Friendly Agriculture	Closed	2001	10/1/2001 0:00	8/1/2003 0:00		Alameda Fresno Madera Napa Santa Clara Stanislaus
Full-Scale Implementation	Environmental Education	Closed	2001	9/20/2001 0:00	1/1/2004 0:00	6/30/2004 0:00	San Joaquin
Full-Scale Implementation	Local Watershed Stewardship Environmental Education	Closed	2001	7/20/2001 0:00	7/31/2004 0:00	1/31/2005 0:00	Merced Solano Yolo
Research Planning	Fish Screens Fish Passage	Closed	2001	8/27/2001 0:00	6/30/2002 0:00	12/31/2002 0:00	Stanislaus
Research	Ecosystem Water and Sediment Quality	Closed	2001	8/17/2001 0:00		2/28/2003 0:00	Fresno Madera Merced San Joaquin Stanislaus
Research Planning Monitoring	Ecosystem Water and Sediment Quality Hydrodynamics, Sediment Transport, and Flow Regimes	Closed	2001	5/4/2001 0:00	5/31/2002 0:00	2/28/2003 0:00	Fresno Madera Merced San Joaquin Stanislaus
Research Planning Monitoring	Ecosystem Water and Sediment Quality Hydrodynamics, Sediment Transport, and Flow Regimes	Closed	2001	6/1/2001 0:00	5/31/2002 0:00	8/31/2002 0:00	Fresno Madera Merced San Joaquin Stanislaus
Full-Scale Implementation	Riparian Habitat Lowland Floodplains and Bypasses	Terminated/C	2002				Stanislaus
Full-Scale Implementation	Local Watershed Stewardship Environmental Education Upland Habitat and Wildlife Friendly Ag	Closed	2002	1/1/2003 0:00	12/31/2005 0:00	6/30/2006 0:00	Butte Colusa Fresno Glenn Marin Sacramento Solan
Planning	Hydrodynamics, Sediment Transport, and Flow Regimes Lowland Floodplains and Bypasses	Closed	2002	5/1/2003 0:00	4/30/2006 0:00	1/31/2007 0:00	Merced
Planning	Fish Screens	Closed	2002	9/15/2003 0:00	9/14/2004 0:00	2/12/2007 0:00	Stanislaus
Full-Scale Implementation Acquis	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes Lowland Floodplains a	Terminated/C	2002				Stanislaus
Research	Hydrodynamics, Sediment Transport, and Flow Regimes Environmental Water Management At-	Closed	2002	5/1/2003 0:00	4/30/2006 0:00	10/31/2006 0:00	Calaveras Sacramento San Joaquin Stanislaus Tuolumne
Full-Scale Implementation	Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restoration	Closed	2002	7/1/2003 0:00	6/30/2006 0:00	12/31/2008 0:00	Stanislaus

Research	Hydrodynamics, Sediment Transport, and Flow Regimes	Closed	2002	11/1/2003 0:00	10/31/2006 0:00	2/29/2008 0:00	Alameda Butte Colusa Contra Costa Fresno Glenn M
Pilot/Demonstration	Ecosystem Water and Sediment Quality	Closed	2002	7/1/2003 0:00	6/30/2004 0:00	9/30/2004 0:00	Fresno
Full-Scale Implementation	Riparian Habitat At-Risk Species Assessment	Ongoing	2002		11/30/2008 0:00	12/31/2012 0:00	San Joaquin Stanislaus
Full-Scale Implementation Planning	Ecosystem Water and Sediment Quality Local Watershed Stewardship Shallow Water and Marsh	Closed	2002		10/15/2006 0:00	10/15/2007 0:00	Contra Costa
Research	At-Risk Species Assessment	Closed	2002	10/1/2003 0:00	9/30/2005 0:00	1/31/2007 0:00	Colusa Del Norte Fresno Glenn Humboldt Merced Sa
Research	Ecosystem Water and Sediment Quality	Closed	2002	7/1/2004 0:00	6/30/2007 0:00	6/30/2008 0:00	Merced San Joaquin Stanislaus
Full-Scale Implementation	Riparian Habitat Non-Native Invasive Species	Closed	2002		3/14/2008 0:00	9/14/2010 0:00	Butte Fresno Lake Madera Sacramento Sutter
Monitoring	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes At-Risk Species Assess	Terminated/C	2004				Stanislaus
Monitoring	Riparian Habitat Non-Native Invasive Species Environmental Water Management	Closed	2004		2/28/2010 0:00	2/28/2012 0:00	Butte Contra Costa El Dorado Merced Napa Sacramen
Research	Hydrodynamics, Sediment Transport, and Flow Regimes At-Risk Species Assessment	Closed			6/30/2008 0:00	6/30/2010 0:00	Contra Costa Fresno Madera Merced Sacramento San
Research Monitoring	Environmental Water Management	Closed			6/30/2008 0:00		Calaveras Mariposa Merced San Joaquin Stanislaus Tu
Planning Monitoring	At-Risk Species Assessment	Closed			6/30/2008 0:00	6/30/2011 0:00	Various
Planning Monitoring	At-Risk Species Assessment	Closed			6/30/2008 0:00	6/30/2010 0:00	Various
Research Monitoring	Ecosystem Water and Sediment Quality Shallow Water and Marsh Habitat	Closed			6/30/2009 0:00		Merced
Research Full-Scale Implementati	Hydrodynamics, Sediment Transport, and Flow Regimes At-Risk Species Assessment	Closed	2006		6/30/2008 0:00	12/31/2008 0:00	Merced Stanislaus Tuolumne
Full-Scale Implementation	Hydrodynamics, Sediment Transport, and Flow Regimes	Closed			6/30/2009 0:00		Stanislaus
Research	Hydrodynamics, Sediment Transport, and Flow Regimes At-Risk Species Assessment	Ongoing			4/30/2011 0:00	12/31/2012 0:00	
Full-Scale Implementation	Fish Screens	Closed			6/30/2012 0:00	6/30/2012 0:00	Stanislaus
Planning	Riparian Habitat Fish Screens Lowland Floodplains and Bypasses	Ongoing			3/31/2015 0:00		
Full-Scale Implementation Pilot/D	Ecosystem Water and Sediment Quality Environmental Education Upland Habitat and Wildlife F	Closed	1995		9/30/1998 0:00	12/30/1998 0:00	Colusa Madera San Joaquin
Planning Monitoring Acquisition	Riparian Habitat Lowland Floodplains and Bypasses	Closed	1997	3/11/1998 0:00	7/31/1998 0:00	3/31/2002 0:00	San Joaquin Stanislaus
Research Planning	Riparian Habitat Lowland Floodplains and Bypasses At-Risk Species Assessment	Closed	1997	3/9/1998 0:00	3/31/1999 0:00	9/30/2000 0:00	Merced
Monitoring	Ecosystem Water and Sediment Quality	Closed	1997	1/1/1999 0:00	12/31/2000 0:00	6/30/2002 0:00	Merced San Joaquin Stanislaus
Research Monitoring	Harvestable Species Assessment At-Risk Species Assessment	Closed	1997	1/11/1999 0:00	9/30/2001 0:00	6/30/2002 0:00	Merced San Joaquin Stanislaus
Full-Scale Implementation Monit	Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restoration	Closed	1997	9/1/1998 0:00	12/31/2001 0:00	12/31/2001 0:00	Stanislaus
Full-Scale Implementation	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restora	Closed	1997		2/28/1999 0:00		Stanislaus
Full-Scale Implementation	River Channel Restoration	Closed	1997	7/1/2000 0:00	12/31/2003 0:00	12/31/2004 0:00	Stanislaus
Research Pilot/Demonstration	Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restoration	Closed	1997	9/16/1998 0:00	9/16/2001 0:00	3/15/2002 0:00	Calaveras Stanislaus Tuolumne
Research	Ecosystem Water and Sediment Quality Estuary Foodweb Productivity	Closed	1997		6/30/2001 0:00	12/31/2001 0:00	Alameda Contra Costa Marin Napa Sacramento San F
Research Pilot/Demonstration	Ecosystem Water and Sediment Quality	Closed	1997		9/30/2001 0:00	9/30/2002 0:00	Fresno
Full-Scale Implementation	Local Watershed Stewardship Environmental Education	Closed	1998	3/1/1999 0:00	12/31/2001 0:00		Fresno Kern Kings Madera Mariposa Merced Stanis
Full-Scale Implementation	Ecosystem Water and Sediment Quality Local Watershed Stewardship Environmental Education	Closed	1998		12/31/2001 0:00		Stanislaus
Full-Scale Implementation	Environmental Education	Closed	1998	5/3/1999 0:00	12/31/2001 0:00		Stanislaus
Monitoring Acquisition	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes	Closed	1997	9/1/1998 0:00	12/31/2000 0:00		Merced Stanislaus
Research	Ecosystem Water and Sediment Quality	Closed	1998	9/1/1998 0:00	6/30/2001 0:00	11/30/2002 0:00	Fresno Napa Sacramento San Joaquin Sutter Yolo
Research	At-Risk Species Assessment	Closed	1998	3/26/1999 0:00	1/31/2001 0:00	10/31/2001 0:00	Colusa Contra Costa Del Norte Glenn Humboldt Merc
Research Planning	Local Watershed Stewardship	Closed	1998		5/23/2001 0:00		Merced Stanislaus
Full-Scale Implementation	Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restoration	Closed	1998		9/30/2001 0:00	6/30/2004 0:00	Stanislaus
Full-Scale Implementation Monit	Riparian Habitat Upland Habitat and Wildlife Friendly Agriculture Lowland Floodplains and Bypa	Closed	1998	12/10/1998 0:00	6/30/2001 0:00	10/31/2007 0:00	Stanislaus
Full-Scale Implementation Monit	Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restoration	Closed	1998	4/19/1999 0:00	9/30/2002 0:00		Merced
Acquisition	Lowland Floodplains and Bypasses	Closed	1998	5/10/1999 0:00	9/30/2000 0:00	9/30/2002 0:00	Stanislaus
Planning	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes Lowland Floodplains a	Closed	1999		12/31/2002 0:00	4/30/2003 0:00	Merced
Full-Scale Implementation	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes Fish Passage	Closed	1999	9/21/1999 0:00	3/30/2000 0:00		Merced
Full-Scale Implementation	Ecosystem Water and Sediment Quality Local Watershed Stewardship	Closed	1999	7/31/2000 0:00	12/31/2001 0:00	3/31/2003 0:00	Madera Merced
Research Monitoring	Harvestable Species Assessment At-Risk Species Assessment	Closed	1999	7/6/2000 0:00			Merced San Joaquin Solano
Full-Scale Implementation	Environmental Education	Closed	1999	1/3/2000 0:00	12/31/2002 0:00		Fresno Madera
Pilot/Demonstration Monitoring	Riparian Habitat Environmental Water Management	Closed	1999	9/7/1999 0:00	6/30/2000 0:00	12/31/2001 0:00	Fresno Madera

Full-Scale Implementation	Environmental Water Management	Closed	1999		9/30/1999 0:00		Calaveras Stanislaus Tuolumne
Full-Scale Implementation Monit	Riparian Habitat Hydrodynamics, Sediment Transport, and Flow Regimes Fish Passage	Closed	1999	9/21/1999 0:00	3/30/2002 0:00	3/31/2006 0:00	Stanislaus
Full-Scale Implementation	Hydrodynamics, Sediment Transport, and Flow Regimes River Channel Restoration	Closed	1999	4/11/1999 0:00	3/30/2002 0:00	3/31/2006 0:00	Stanislaus
Full-Scale Implementation Planni	Non-Native Invasive Species	Closed	1999	1/7/2000 0:00	9/30/2002 0:00		Various
Research	Ecosystem Water and Sediment Quality Hydrodynamics, Sediment Transport, and Flow Regimes	Closed	1999	1/18/2000 0:00	1/1/2003 0:00	6/30/2003 0:00	Amador Calaveras El Dorado Sacramento San Joaquin
Research Full-Scale Implementati	Environmental Education Non-Native Invasive Species	Closed	1999	10/12/1999 0:00	10/12/2002 0:00	12/31/2003 0:00	Various
Research Full-Scale Implementati	Environmental Education Non-Native Invasive Species	Closed	1999	7/1/2003 0:00	12/31/2003 0:00	12/31/2003 0:00	Various
Planning	Harvestable Species Assessment	Closed	1999	4/1/2000 0:00	1/1/2002 0:00	11/30/2004 0:00	Butte Merced Sacramento San Joaquin Shasta
Planning	Harvestable Species Assessment At-Risk Species Assessment	Closed	1999	10/1/2002 0:00	9/30/2003 0:00	1/31/2004 0:00	Butte Merced Sacramento San Joaquin Shasta Sonom
Acquisition	Lowland Floodplains and Bypasses	Closed	1999	7/27/1999 0:00	6/30/2000 0:00	3/31/2001 0:00	Stanislaus

Species	EcoSystemElement
Fall-run Chinook salmon Central Valley steelhead	
Fall-run Chinook salmon Central Valley steelhead	
Fall-run Chinook salmon Central Valley steelhead	
Fall-run Chinook salmon Central Valley steelhead	
Fall-run Chinook salmon Central Valley steelhead	
Fall-run Chinook salmon Central Valley steelhead Anadromous salmonids	Coarse Sediment Supply Natural Floodplain and Flood Processes Predation and Competition Riparian and Riv
Fall-run Chinook salmon Central Valley steelhead Aquatic habitat plant community Seasonal wetland habitat plant community Anad	Fresh Emergent Wetland Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Fres
Fall-run Chinook salmon Anadromous salmonids	Central Valley Streamflows Coarse Sediment Supply Riparian and Riverine Aquatic Habitats Essential Fish Hab
Fall-run Chinook salmon Central Valley steelhead Anadromous salmonids	Freshwater Fish Habitats
Fall-run Chinook salmon Central Valley steelhead	Essential Fish Habitats
Fall-run Chinook salmon	Fish and Wildlife Harvest Artificial Fish Propagation
Fall-run Chinook salmon Anadromous salmonids	Freshwater Fish Habitats
Fall-run Chinook salmon Aquatic habitat plant community Non-native warmwater gamefish Anadromous salmonids	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Gravel Mining
Central Valley steelhead Anadromous salmonids	
Fall-run Chinook salmon Potential applicability to all species Anadromous salmonids	Central Valley Streamflows Coarse Sediment Supply Natural Floodplain and Flood Processes Riparian and Riv
Migratory waterfowl Seasonal wetland habitat plant community Anadromous salmonids Waterfowl and Shorebirds	Seasonal Wetlands Central Valley Stream Temperatures
Delta smelt Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Migratory waterfowl Planktonic (food	Central Valley Streamflows Natural Floodplain and Flood Processes Levees, Bridges and Bank Protection Con
Sacramento splittail Fall-run Chinook salmon Central Valley steelhead Valley elderberry longhorn beetle Swainson's hawk Greater	Coarse Sediment Supply Natural Floodplain and Flood Processes Predation and Competition Riparian and Riv
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Central Valley steelhead Western pond turtle Nat	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Stream Meander Central Valle
Sacramento splittail Fall-run Chinook salmon Central Valley steelhead Swainson's hawk Migratory waterfowl Neotropical migrator	Central Valley Streamflows Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats
Fall-run Chinook salmon Non-native warmwater gamefish Anadromous salmonids	Coarse Sediment Supply Predation and Competition Riparian and Riverine Aquatic Habitats Stream Meander
Delta smelt Sacramento splittail Migratory waterfowl White sturgeon	
	Contaminants
Fall-run Chinook salmon Aquatic habitat plant community Non-native warmwater gamefish Anadromous salmonids	Dams and Other Structures Predation and Competition Riparian and Riverine Aquatic Habitats Stream Meand
Delta smelt Green sturgeon Fall-run Chinook salmon Central Valley steelhead Valley elderberry longhorn beetle Swainson's hawk	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Seasonal Wetlands Freshwater
Fall-run Chinook salmon Anadromous salmonids	Essential Fish Habitats Contaminants
Central Valley steelhead Riparian brush rabbit Little willow flycatcher Giant garter snake Migratory waterfowl Neotropical migrato	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Invasive Riparian Marsh Plants
Masons lilaepsis Delta tule pea California red-legged frog California tiger salamander Migratory waterfowl Neotropical migratory	Agricultural Lands Natural Floodplain and Flood Processes Freshwater Fish Habitats Contaminants
Delta smelt Green sturgeon Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon	Fresh Emergent Wetland Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Non
Delta smelt Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Central Valley ste	Riparian and Riverine Aquatic Habitats Tidal Perennial Aquatic Habitat Contaminants
Fall-run Chinook salmon Migratory waterfowl Neotropical migratory birds White sturgeon Anadromous salmonids	Contaminants
Potential applicability to all species	Fresh Emergent Wetland Bay-Delta Aquatic Foodweb Delta Sloughs Essential Fish Habitats Non-native Wild
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Central Valley steelhead Migratory waterfowl Ne	Agricultural Lands Contaminants
Sacramento splittail Fall-run Chinook salmon Central Valley steelhead White sturgeon Striped bass American shad Anadromous s	Water Diversions Freshwater Fish Habitats
Delta smelt Fall-run Chinook salmon Native resident fishes Planktonic (foodweb) organisms Aquatic habitat plant community Anadromous salmonids Waterfowl and Shorebirds	
Delta smelt Fall-run Chinook salmon Native resident fishes Planktonic (foodweb) organisms Aquatic habitat plant community Anad	Bay-Delta Hydrodynamics Contaminants
Delta smelt Fall-run Chinook salmon Native resident fishes Planktonic (foodweb) organisms Aquatic habitat plant community Anad	Bay-Delta Hydrodynamics Water Diversions Contaminants
Sacramento splittail Fall-run Chinook salmon Central Valley steelhead Swainson's hawk Western pond turtle	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats
b Sonoma Tehama Yolo	Agricultural Lands
Fall-run Chinook salmon Anadromous salmonids	Central Valley Streamflows Coarse Sediment Supply Dams and Other Structures Natural Floodplain and Flood
Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Central Valley steelhead Nat	Stranding Water Diversions
Fall-run Chinook salmon Anadromous salmonids	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Levees, Bridges and Bank Prote
Fall-run Chinook salmon Central Valley steelhead Anadromous salmonids	Central Valley Streamflows Central Valley Stream Temperatures Essential Fish Habitats
Fall-run Chinook salmon Anadromous salmonids	Coarse Sediment Supply Natural Floodplain and Flood Processes Freshwater Fish Habitats Essential Fish Habi

adera Plumas Sacramento San Joaquin Shasta Stanislaus Sutter Tehama Yolo	Bay-Delta Hydrodynamics
	Contaminants
Fall-run Chinook salmon Central Valley steelhead Riparian brush rabbit Riparian woodrat Waterfowl and Shorebirds	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Non-native Wildlife
Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon California black rail Swainson's hawk	Fresh Emergent Wetland Natural Floodplain and Flood Processes Contaminants Disturbance
Green sturgeon	Freshwater Fish Habitats Essential Fish Habitats
	Contaminants
	Riparian and Riverine Aquatic Habitats Tidal Perennial Aquatic Habitat Invasive Riparian Marsh Plants
Fall-run Chinook salmon	Coarse Sediment Supply Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Stream Mean Velocities
to San Joaquin San Mateo Solano Yolo	Invasive Riparian Marsh Plants
Chinook Steelhead	Bay-Delta Hydrodynamics Essential Fish Habitats
Fall-run Chinook salmon Anadromous salmonids	Riparian and Riverine Aquatic Habitats Central Valley Stream Temperatures Freshwater Fish Habitats
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Anadromous salmonids	Essential Fish Habitats Fish and Wildlife Harvest
Central Valley steelhead	Essential Fish Habitats Fish and Wildlife Harvest
Waterfowl and Shorebirds	Fresh Emergent Wetland Seasonal Wetlands Contaminants
Fall-run Chinook salmon Central Valley steelhead	Central Valley Streamflows Central Valley Stream Temperatures Essential Fish Habitats
Fall-run Chinook salmon	
Sacramento splittail Fall-run Chinook salmon Central Valley steelhead Anadromous salmonids	
	Agricultural Lands Riparian and Riverine Aquatic Habitats Water Diversions Freshwater Fish Habitats Essential Fish Habitats
	Agricultural Lands Contaminants
Sacramento splittail Fall-run Chinook salmon Valley elderberry longhorn beetle Swainson's hawk Riparian brush rabbit Greater sandhill crane	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Freshwater Fish Habitats Essential Fish Habitats
Sacramento splittail Greater sandhill crane Western yellow-billed cuckoo Giant garter snake Native resident fishes Wading bird guild	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Freshwater Fish Habitats Essential Fish Habitats
Delta smelt Longfin smelt Green sturgeon Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon	Central Valley Streamflows Central Valley Stream Temperatures Contaminants
Fall-run Chinook salmon	Fish and Wildlife Harvest Artificial Fish Propagation
Fall-run Chinook salmon Native resident fishes Anadromous salmonids	Riparian and Riverine Aquatic Habitats Freshwater Fish Habitats Essential Fish Habitats
Fall-run Chinook salmon Aquatic habitat plant community Anadromous salmonids	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Gravel Mining
Fall-run Chinook salmon Aquatic habitat plant community Anadromous salmonids	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Gravel Mining
Fall-run Chinook salmon	Central Valley Streamflows Coarse Sediment Supply Dams and Other Structures Freshwater Fish Habitats Essential Fish Habitats
Green sturgeon Planktonic (foodweb) organisms White sturgeon Striped bass	Bay-Delta Aquatic Foodweb Contaminants
	Agricultural Lands Riparian and Riverine Aquatic Habitats Freshwater Fish Habitats Contaminants
Fall-run Chinook salmon Central Valley steelhead Anadromous salmonids	
Sacramento splittail Fall-run Chinook salmon Migratory waterfowl Neotropical migratory birds Aquatic habitat plant community	Agricultural Lands Central Valley Streamflows Riparian and Riverine Aquatic Habitats Central Valley Stream Temperatures
Fall-run Chinook salmon Swainson's hawk Riparian brush rabbit Greater sandhill crane Western yellow-billed cuckoo Migratory waterfowl	Riparian and Riverine Aquatic Habitats Freshwater Fish Habitats Essential Fish Habitats
Fall-run Chinook salmon Central Valley steelhead Lamprey family Native resident fishes Aquatic habitat plant community Seasonal wetland habitat plant community	Coarse Sediment Supply Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Essential Fish Habitats
Delta smelt Longfin smelt Green sturgeon Sacramento splittail	Contaminants
Green sturgeon White sturgeon	Bay-Delta Aquatic Foodweb Central Valley Stream Temperatures Freshwater Fish Habitats Essential Fish Habitats
Fall-run Chinook salmon Migratory waterfowl Neotropical migratory birds Aquatic habitat plant community Anadromous salmonids	Coarse Sediment Supply Natural Floodplain and Flood Processes Predation and Competition Riparian and Riverine Aquatic Habitats
Fall-run Chinook salmon Aquatic habitat plant community Anadromous salmonids	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Gravel Mining
Fall-run Chinook salmon Central Valley steelhead Valley elderberry longhorn beetle Swainson's hawk Riparian brush rabbit Western yellow-billed cuckoo	Agricultural Lands Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Essential Fish Habitats
Fall-run Chinook salmon Aquatic habitat plant community Seasonal wetland habitat plant community	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Freshwater Fish Habitats Essential Fish Habitats
Spring-run Chinook salmon Fall-run Chinook salmon Valley elderberry longhorn beetle Swainson's hawk Riparian brush rabbit San Joaquin	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Seasonal Wetlands
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Aquatic habitat plant community Anadromous salmonids	Predation and Competition Riparian and Riverine Aquatic Habitats Stranding Freshwater Fish Habitats
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Aquatic habitat plant community Anadromous salmonids	Dams and Other Structures Predation and Competition Riparian and Riverine Aquatic Habitats Stream Mean Velocities
Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Giant garter snake California black rail	Agricultural Lands Contaminants
Fall-run Chinook salmon	Central Valley Stream Temperatures Contaminants Fish and Wildlife Harvest Artificial Fish Propagation
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon	
	Central Valley Streamflows Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Freshwater Fish Habitats

	Central Valley Streamflows
Fall-run Chinook salmon Aquatic habitat plant community Non-native warmwater gamefish Anadromous salmonids	Riparian and Riverine Aquatic Habitats Gravel Mining
Fall-run Chinook salmon Aquatic habitat plant community Anadromous salmonids	Natural Floodplain and Flood Processes Riparian and Riverine Aquatic Habitats Gravel Mining
Delta smelt Longfin smelt Green sturgeon Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon	Fresh Emergent Wetland Riparian and Riverine Aquatic Habitats Invasive Riparian Marsh Plants
Green sturgeon Sacramento splittail Fall-run Chinook salmon Central Valley steelhead Swainson's hawk Greater sandhill crane Western yellow-billed cuckoo	Central Valley Streamflows Bay-Delta Aquatic Foodweb
Delta smelt Longfin smelt Green sturgeon Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon	Agricultural Lands Fresh Emergent Wetland Midchannel Islands and Shoals Natural Floodplain and Flood Processes
Delta smelt Longfin smelt Green sturgeon Sacramento splittail Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon	Agricultural Lands Fresh Emergent Wetland Midchannel Islands and Shoals Natural Floodplain and Flood Processes
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Central Valley steelhead Anadromous salmonids	Artificial Fish Propagation
Winter-run Chinook salmon Spring-run Chinook salmon Fall-run Chinook salmon Central Valley steelhead Anadromous salmonids	Fish and Wildlife Harvest Artificial Fish Propagation
Fall-run Chinook salmon Central Valley steelhead Valley elderberry longhorn beetle Riparian brush rabbit Western yellow-billed cuckoo	Riparian and Riverine Aquatic Habitats

WaterQualityConstituent	TotalFundingAmount
	95400
	123569
	295220
	55057
	200000
Turbidity and Sedimentation	672610
Water Fish Habitats Essential Fish Habitats	57465
Habitats	62000
Nutrients and Oxygen Depleting Substances	45000
	45262
Toxicity of Unknown Origin and Contaminants	40890
	26319
	518670
	158756
Turbidity and Sedimentation	295925
Salinity	652330
Selenium Turbidity and Sedimentation	848000
Mercury Turbidity and Sedimentation Other	272912
Stream Temperatures	1984320
	230376
Central Valley Stream Temperatures	1699101
	115000
Nutrients and Oxygen Depleting Substances	276000
Mer	543530
Water Fish Habitats Essential Fish Habitats Levees, Bridges and Bank Protection Fish and Wildlife H	7646233
Nutrients and Oxygen Depleting Substances Turbidity and Sedimentation	910486
	2720085
Nutrients and Oxygen Depleting Substances Turbidity and Sedimentation	198450
Other	502100
Mercury Turbidity and Sedimentation	126000
Nutrients and Oxygen Depleting Substances Persistent Organic Contaminants Turbidity and Sed	48500
Other	306291
Turbidity and Sedimentation Pesticides	1066593
	175000
	1645000
Nutrients and Oxygen Depleting Substances	158000
Nutrients and Oxygen Depleting Substances Organic Carbon and Disinfection Byproduct Precursor	100000
	706649
	1497500
Mercury Turbidity and Sedimentation	2192515
	611000
Mercury	0
Nutrients and Oxygen Depleting Substances	661902
Turbidity and Sedimentation	4350000

	562924	
Selenium Salinity Other	280890	
	5465944	
Mercury Turbidity and Sedimentation	356400	
	998222	
Nutrients and Oxygen Depleting Substances Organic Carbon and Disinfection Byproduct Precursors	6807428	
Turbidity and Sedimentation	1840791	
Stream Meander Freshwater Fish Habitats Essential Fish Habitats	2430000	
	111000	
	250000	
Other	781000	
	373351	
	367888	
Salinity Other	260000	
Nutrients and Oxygen Depleting Substances	716051.84	
	79838	
	350000	
	4565725	
Essential Fish Habitats Fish and Wildlife Harvest	2600000	
Pesticides	660000	
Essential Fish Habitats Levees, Bridges and Bank Protection	10647000	
Essential Fish Habitats	334000	
Salinity	931857	
	387003	
	250975	
	2253100	
	2801000	
Nutrients and Oxygen Depleting Substances Turbidity and Sedimentation	536410	
Selenium	1589000	
Nutrients and Oxygen Depleting Substances Selenium	1149000	
	3000	
Persistent Organic Contaminants Turbidity and Sedimentation Pesticides Other	28000	
	55255	
Essential Fish Habitats	830500	
Toxicity of Unknown Origin and Contaminants	500000	
Nutrients and Oxygen Depleting Substances	241000	
Turbidity and Sedimentation Other	300000	
	1693000	
Turbidity and Sedimentation Other	732000	
Essential Fish Habitats Fish and Wildlife Harvest	2433000	
Other	1100000	
	125000	
Turbidity and Sedimentation	1584002	
Nutrients and Oxygen Depleting Substances Pesticides	460000	
	37860	
	68415	
Freshwater Fish Habitats	2500000	

	3000000	
	164800	
	3332050	
	201306	
	1546016	
Other	127473	
Other	49865	
	74951	
	74249	
	1545000	