

## Appendix A: Database of Existing Agency and Stakeholder Projects and Programs

ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
0	MMWD Brine Disposal	*CMSA is working with MMWD on the possibility of sharing the CMSA deep water outfall to dispose of brine from their desalination project. The outfall currently discharges CMSA's treated effluent into SF Bay near the San Rafael Bridge <i>*What is the current status of these discussions?</i>	CMSA	MMWD	NONE	Ongoing	0	999999	1	1	1	CMSA and MMWD service areas	NONE	WQ1	NONE	NONE	NONE
1	Habitat Protection (Need formal title for this project)	*Every Summer CMSA provides reclaimed (secondary-treated) wastewater to Remillard Pond in Corte Madera to maintain a proper water level for the pond's wildlife. Wildlife includes the Western pond turtle, a federal and state "special concern species." <i>*How is this project funded?</i> <i>*Does the community participate in this effort?</i> <i>*Are there any other efforts being made towards habitat restoration?</i>	CMSA	NONE	NONE	Ongoing	0	999999	1	1	1	Remillard Pond in Corte Madera	Western Pond Turtle	HE1	HE5	NONE	NONE
2	Clean Estuary Project	* TMDL studies	BACWA	SCWA	NONE	Ongoing	0	999999	1	1	1	SCWA Service Area	NONE	WQ1	NONE	NONE	NONE
3	Create Pollution Prevention Menu with SEP Fines	<i>* Need project description</i>	BACWA	NONE	NONE	Idea	999999	999999	1	1	1	NOSD service area	NONE	WQ1	WQ2	NONE	NONE
4	Pretreatment Program and Pollution Prevention Program	*This program is ongoing and mandated by CMSA's NPDES Permit *The primary program elements are regulation of industrial sanitary sewer users, regulation of some businesses, primarily auto repair shops, and public education. *This program has an annual budget of \$200,000 <i>*Need copy of "Pretreatment Program and Pollution Prevention Program Annual Reports"</i>	CMSA	NONE	NONE	Ongoing	0	999999	200,000	200,000	1	CMSA service area	NONE	WQ1	WQ2	NONE	NONE
5	Public Outreach Programs	*This program is ongoing *CMSA works with LGVSD and, in many cases, MCSTOPPP and MMWD, CMSA staff educate students and the public on sanitary sewers, storm drains, and how to prevent pollution of both *This program includes class presentations of treatment plant and watershed models and plant tours *This program has an annual budget of \$35,000 with approximately one half funded by CMSA and the other half funded by participating agencies <i>*Are there other programs you would like to put in place?</i>	CMSA	LGVSD	MCSTOPPP	Ongoing	0	999999	35,000	3,500	1	Eastern Marin county	NONE	WQ1	WQ2	NONE	NONE



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6	Recycled Water Project (Need formal title)	*CMSA is proposing to provide ~8,000 gpd recycled effluent to Marin Sanitary District for dust control at their Andersen Drive facility *Is there construction taking place at this site? Will a portion of this area be eventually covered in landscape? If so, will CMSA continue to provide recycled water? *How will this project be funded? *What other recycled water projects are planned? Is there a large market for recycled water within your service area? *Has a recycled water master plan been developed?	CMSA	MCSD5	NONE	Proposed	999999	999999	1	1	1	CMSA and MCSD5 service areas	NONE	WS1	WS3	WQ1	NONE
7	Expansion of LGVSD Education Program	* Interested in expanding to schools outside of district *This project is funded by the LGVSD	LGVSD	CMSA	NONE	Idea	200405	999999	1	1	1	LGVSD service area and Novato Sanitary Dist. Area	NONE	REC5	NONE	NONE	NONE
8	Expansion of Wetland and Trail System	* Possibility of expanding to St. Vincent lands since recent building permit was denied - now up for leasing * Coordinate with Hamilton east of RR tracks to acquire land for wetlands * Trails will be built on land as well	LGVSD	NONE	NONE	Proposed	999999	999999	1	1	1	On St. Vincent lands, east of RR tracks, need better description	Wildlife	REC1	REC2	NONE	NONE
9	LGVSD Recycled Water Supply to NMWD	* MMWD currently supplies potable water to Las Gallinas area. The purpose of this project would be to switch the potable water supplier from MMWD to NMWD. MMWD would no longer have to pursue desalination plant.	LGVSD	NMWD	MMWD	Proposed	200601	999999	1	1	1	Parallels boundaries of LGVSD	NONE	WS3	NONE	NONE	NONE
10	LGVSD Wetland Area	* Las Gallinas Valley San District (LGVSD) currently maintains 60 acres of storage ponds that contribute to habitat restoration. Currently ponds are used to provide additional treatment for wastewater effluent during 5 months of the summer when discharge to the Bay is not permitted. During the other two months discharge to the Bay is not allowed, effluent undergoes tertiary treatment by Marine Municipal Water District for recycled water use. * Works with Audubon Society to document bird species *This project is funded by LGVSD *This project is ongoing and has no finish date	LGVSD	MMWD	NONE	Ongoing	198801	999999	1	1	1	LGVSD service area	Birds	WQ1	HE1	HE2	WQ3
11	Maintenance of Wetlands Area Trail System	* 2.5 miles of trails around ponds open for public use * This project is funded by LGVSD	LGVSD	NONE	NONE	Ongoing	198501	999999	1	1	1	LGVSD area	NONE	REC1	REC2	NONE	NONE



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12	NPDES Permit BMPs	* Source control program * Cooperation with CMSA * Outreach to dentists (mercury) *This project is funded by LGVSD	LGVSD	CMSA	NONE	Ongoing	199601	999999	1	1	1	LGVSD service area	NONE	WQ1	WQ4	WQ5	NONE
13	Pollution Prevention Program	* LGVSD sponsors outreach at public schools within district. Students are given a tour of the WWTP and visits to the lab for hands-on science experiments. Students learn about water quality testing and its importance to creek and pond species. LGVSD may extend educational outreach to other neighboring districts in Marin County (i.e. San Rafael).	LGVSD	CMSA	NONE	Ongoing	199401	999999	44,000	1	1	LGVSD service area	NONE	REC3	WQ1	NONE	NONE
14	School Curriculum and Field Trips	* Work with SEED on program * On-site lab for students *This project is funded by the LGVSD	LGVSD	CMSA	NONE	Ongoing	199401	999999	1	1	1	LGVSD service area	NONE	REC3	REC4	REC5	NONE
15	Solar Energy Pump Station	* Recycled treated waste water pump station. * Solar panels offset electrical charges *Grant funding received form PG&E and SFPUC	LGVSD	MMWD	NONE	Planned	200406	200407	637,000	310,000	1	Serves reclamation area only	NONE	WS3	NONE	NONE	NONE
16	Would like Marin County Parks Master Plan. Would like with Cities and other purveyors to be a part of the process. Would like to interact with City of Novato and North Marin Water District to develop master plan for Stafford Lake	Would like master plan for Paradise, McNears Beach, and Stafford Lake	MARINCO	NOCITY	NMWD	Idea	0	999999	1	0	1	Marin County Parks	NONE	REC2	REC3	NONE	NONE
17	Bahia at Rush Creek	* Land acquisition in partnership with Marin Audubon Society	MARINOS	NONE	NONE	Completed	200301	200312	1	1	1	Bahia at Rush Creek	NONE	HE5	NONE	NONE	NONE
18	Gold Hill Land Acquisition	* Purchase of 273 acres located on the south face of San Pedro Mountain	MARINOS	NONE	NONE	Completed	200301	200312	1	1	1	Near San Rafael on south face of San Pedro Mountain	NONE	HE5	NONE	NONE	NONE
19	Mount Burdell Land Acquisition	* Purchase of 70 acres on Mount Burdell from the Buck Center	MARINOS	NONE	NONE	Completed	200301	200312	1	1	1	Mount Burdell	NONE	HE5	NONE	NONE	NONE
20	Bothin Marsh restoration	* Goals are to continue to repair existing area and minimize future damage caused by water runoff, and increase biodiversity and water quality to support the recovery of threatened and endangered species.	MARINOS	NONE	NONE	Ongoing	200301	999999	1	1	1	Shoreline of Richardson Bay	California clapper rail, salt-marsh harvest mouse	HE1	NONE	NONE	NONE
21	Collection System Assessment	* To reduce high wet weather flows * IOI(?)	MCSD5	NONE	NONE	Ongoing	200401	200612	500,000	1	1	MCSD5 Service Area	NONE	WQ1	WQ8	NONE	NONE
22	Collection System Repair	* Need project description	MCSD5	NONE	NONE	Proposed	200601	999999	5,000,000	1	1	MCSD5 Service Area	NONE	WQ1	WQ8	NONE	NONE



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23	New Pump Station	*This project will involve construction of new pump station between Novato Creek and Highway 37 Novato Sanitary to protect against flood *Project is currently in design and construction phases *Funding from F.C. Zone 1	MCSTOPPP	NOSD	FCZone1	Ongoing	200501	200612	1,137,500	1,137,500	0	Area between Novato Creek and Hwy 37 Novato Sanitary	NONE	FP4	NONE	NONE	NONE
24	Novato Creek, Phase 8, Zone 1	*Project to improve the reach between Diablo and Grand Avenues as the eighth phase of the overall Novato Flood Control Project. <b>Project highlights?</b> *Project is currently in construction phase *Funding from F.C. Zone 1	MCSTOPPP	FCZone1	NONE	Ongoing	200401	200512	1,455,000	1,455,000	0	Novato Creek, reach between Diablo and Grand Avenues	NONE	FP4	NONE	NONE	NONE
25	NPDES Phase II Permit	*General permit for the discharge of storm water from small municipal separate storm sewer systems *As part of the permit application process, MCSTOPPP prepared the Storm Water Management Plan *The Storm Water Management Plan was submitted to the State Board for review *This process should be completed by late summer, early fall depending upon whether MCSTOPPP has to present to Board first prior to approval	MCSTOPPP	NONE	NONE	Ongoing	0	999999	1	1	1	MCSTOPPP service area and discharge points	NONE	WQ1	WQ2	NONE	NONE
26	Pacheco Creek	<b>*Need Project Description</b> *Construction proposed in 2005 pending approval of all the Federal and State regulatory agencies	MCSTOPPP	MCFCWCD	NONE	Ongoing	0	200512	1	396,000	1	Pacheco Creek watershed, just north of Miller Creek watershed, south of Novato	Salmonids	HE5	HE1	WQ7	NONE
27	Replace Slough Culvert - Zone 9	*Slough receives discharge main channel of Corte Madera Creek. The slough culverts are badly deteriorated and in need of repair *Project is currently in construction phase *Funding from F.C. Zone 9	MCSTOPPP	FCZone9	NONE	Ongoing	200401	200512	35,000	55,000	0	Slough culvert along main channel of Corte Madera Creek	NONE	FP4	NONE	NONE	NONE
28	Salt Works Canal - Zone 4	*Project will be performed in two phases. Phase I will reconstruct fences and establish a flood barrier along the right/west side of the salt Works Canal from Highway 131 approximately 450 feet south. Phase II will stabilize the right (west) bank of the Salts Work Canal utilizing bio-technical fields *Project currently in design and construction phases *Funding from F.C. Zone 4	MCSTOPPP	FCZone4	NONE	Ongoing	200401	200512	95,000	95,000	0	On the west side of the Salt Works Canal from Hwy 131 approximately 450ft south.	NONE	FP1	FP4	NONE	NONE



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29	Richardson Bay Master Plan	*This project will identify flooding problems and needed marsh rehabilitation areas along Richardson Bay shoreline *Project currently in design phase *Funding from F.C. Zone 3	MCSTOPPP	FCZone3	NONE	Ongoing	200401	200512	42,000	42,000	0	Richardson Bay shoreline and surrounding watershed	NONE	FP1	FP2	HE2	NONE
30	SCADA System Installation - Zones 3, 4, and 7	*This project will install SCADA systems at six pump stations. SCADA will allow monitoring to prevent flood in zones 3, 4, and 7 *Project is currently in design and installation phase *Funding from F.C. Zones 3, 4, and 7	MCSTOPPP	FCZone3	FCZone4	Ongoing	200401	200512	275,000	275,000	0	Flood control zones 3, 4, and 7	NONE	FP4	NONE	NONE	NONE
31	West Creek Flood Wall - Zone 4	*This project is to reconstruct the fences of properties damaged during December 2001 rain event *Project is currently in planning phase *Funding from F.C. Zone 4	MCSTOPPP	FCZone4	NONE	Ongoing	200401	200512	30,000	30,000	0	Tiburon-Belvedere Flood Control Zone 4	NONE	FP1	FP4	NONE	NONE
32	"LightWash" Commercial Washing Machine Rebate Program	Provides rebates for purchase or lease of washers installed in multi-family, assisted living and institutional common area laundry facilities, and businesses/organizations with on-premise laundry facilities.	MMWD	CPUC	NONE	Ongoing	200211	999999	1	1	1	MMWD service area	NONE	WS4	NONE	NONE	NONE
33	Amphibian Signage	Signage used to prevent road crossing to allow for amphibian crossing (i.e. newts)	MMWD	NONE	NONE	Completed	0	200312	1	1	0	MMWD service area and lands	Amphibians	HE1	HE5	NONE	NONE
34	Conservation Assistance Program (CAP)	MMWD performs audits of residential and commercial properties in order to identify appliances/components that cause high water usage	MMWD	NONE	NONE	Ongoing	199401	999999	1	1	1	MMWD service area	NONE	WS4	NONE	NONE	NONE
35	Groundwater Recovery Project	Study to determine feasibility of drawing 1,000 to 2,000 acre-ft of water from ground that has leaked from supply reservoirs	MMWD	NONE	NONE	Planned	999999	999999	1	1	1	MMWD lands around supply reservoirs	NONE	WS1	WS4	WS5	NONE
36	Habitat Conservation Plan	*MMWD would like to develop a habitat management plan *This plan would address endangered species	MMWD	NONE	NONE	Idea	999999	999999	1	1	1	MMWD service area	Wildlife	HE1	HE2	HE5	NONE
37	Information Kiosk for Visitors at major entry points to the watershed	*Intended to promote stewardship *Information will include location of trails, existing habitat, volunteer info, and information on protecting watershed	MMWD	NONE	NONE	Ongoing	200401	200712	50,000	1	1	Watershed lands near all reservoirs within service area	NONE	REC2	REC3	REC5	NONE
38	Integrated Pest Management Program	Program to monitor pesticide use around MMWD facilities	MMWD	NONE	NONE	Ongoing	200401	999999	1	1	1	Areas around MMWD facilities	NONE	HE2	NONE	NONE	NONE

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39	MMWD Bay Water Desalination Project	* Desalination plant environmental report in review process * Plans for 15 mgd plant built in 5 mgd increments * More cost effective than expanding recycled water facilities and transmission lines * Review should be completed in late 2004, design plans in 2005, and construction beginning shortly after	MMWD	NONE	NONE	Planned	200101	200812	1	1	1	MMWD service area	NONE	WS1	WS4	NONE	NONE
40	Mount Tamalpais Trail and Road Management	*MMWD manages roads and trails at reservoir sites. Work includes implementing BUMPS to reduce water quality impacts (i.e. sediment control) *Plan is completed. In CEQA process 200 to 250 k for plan *total of 4 million over 15 years to implement projects *Received grants from fish and game (170 K) Funding needed	MMWD	NONE	NONE	Ongoing	200201	201412	250,000	170,000	1	Area around MMWD reservoirs	NONE	REC1	WQ5	NONE	NONE
41	NBWA Recycled Water Project	* <b>Satellite Treatment Plant project?</b>	MMWD	NBWA	NONE	Planned	999999	999999	1	1	1	Service areas of NBWA agencies	NONE	WS1	WS3	WQ1	WS4
42	<b>Need Formal Title</b>	As part of emergency response efforts for main breaks, watershed is monitored for treated water constituents	MMWD	NONE	NONE	Ongoing	0	999999	1	1	1	MMWD service area	NONE	WQ1	WQ4	WQ5	HE2
43	Public Education Seminars	MMWD hosts workshops to educate public on water efficient gardening, landscaping, and irrigation (H <sub>2</sub> O How 2).	MMWD	NONE	NONE	Ongoing	0	999999	1	1	1	MMWD service area	NONE	REC4	NONE	NONE	NONE
44	Washing Machine Rebate Program	Provides rebates to customers who purchase washing machines that use less water	MMWD	NONE	NONE	Ongoing	199601	999999	1	1	1	MMWD service area	NONE	WS4	NONE	NONE	NONE

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45	Water Conservation Programs	*MMWD contributes funds for schools to purchase turf alternative playing surfaces, provides rebates for customers who purchase water efficient washing machines, hosts seminars on water efficient gardening and landscaping, provides toilet replacement rebates, offers rebates for commercial dishwasher users, manages the Time of Sale (TOS) Ordinance which requires home sellers to perform low flow plumbing retrofits before the property can be sold, and sends out the "On the Water Front" newsletter to customers with information on water conservation tips. *Upcoming news and project updates are also included in the newsletters. Customers receive newsletter with their bills. *The District also has an annual contest to recognize individuals who conserve water by using low-water-use plants *Over 1/3 of the toilets in the MMWD service area have been replaced. A toilet retrofit program has also been adopted for the local schools.	MMWD	NONE	NONE	Ongoing	199401	999999	1	1	1	MMWD service area	NONE	WS4	REC4	NONE	NONE
46	Watershed Resource Management Plan	*Goal is to develop resource management plan for the watershed lands *Will update vegetation management plan and integrates wildlife plan *Need funding *Plan will cost about 400,000	MMWD	NONE	NONE	Ongoing	200501	999999	400,000	1	1	MMWD service area	Wildlife, Native Plants	HE4	NONE	NONE	NONE
47	Western Pond Turtle Management Program	*Program traps and removes non-native turtles to allow pond turtles to thrive	MMWD	NONE	NONE	Ongoing	200401	200501	10,000	0	0	Phoenix and Alpine Lakes	Western Pond Turtle	HE1	NONE	NONE	NONE
48	Willis Evans - A Bird's Eye View - Guide to Restoring Riparian Habitat	Plan containing recommendations for restoration and management of riparian areas	MMWD	NONE	NONE	Ongoing	200407	200412	5,000	2,650	2,350	Riparian Habitat in MMWD service area	Wildlife	HE3	WQ7	NONE	NONE
49	Willis Evans - Arroyo Corte Madera del Presidio Salmonid Migration Barrier Assessment/Remediation Preliminary Design Project	Project for making Arroyo Creek Corte Madera del Presidio and Old Mill Creek more accessible to salmon	MMWD	NONE	NONE	Ongoing	200405	200505	27,500	13,750	13,750	Arroyo Creek Corte Madera del Presidio and Old Mill Creek	Salmonids	HE5	HE1	WQ7	NONE
50	Willis Evans - College of Marin Ecology Study Area Habitat Enhancement	Habitat enhancement project that includes educational signage, landscape planning, invasive species removal, etc.	MMWD	NONE	NONE	Ongoing	200404	200506	34,580	15,760	18,820	Campuses near Fairfax and Tiburon	Wildlife	HE4	REC6	REC4	NONE
51	Willis Evans - Fairfax Volunteer Stream Life Awareness Campaign	Production and installation of 27 interpretive signs including steelhead trout crossing signs	MMWD	NONE	NONE	Ongoing	200404	244812	10,000	5,000	5,000	Streams near Fairfax	Steelhead	HE1	HE5	REC2	REC4



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52	Willis Evans - Manor School Flora and Fauna Sanctuary	Restoration of sections of creek and nature trail on Manor School property by fourth grade students plus associated nature studies	MMWD	NONE	NONE	Ongoing	200404	200502	3,600	3,600	0	Manor School property	Wildlife	HE1	HE3	WQ7	REC4
53	Willis Evans - SEED Expansion 2003-04 Training Program	Expansion of SEED program at 4 schools to cover training binders, newsletters, water quality and creek test kits, and student projects	MMWD	NONE	NONE	Ongoing	200404	200502	5,000	3,000	2,000	4 schools in the MMWD service area	NONE	REC5	REC4	NONE	NONE
54	Willis Evans - Steelhead and Coho Haven	Student Activities: Including removal of non-native plants, installation of native plants and irrigation system	MMWD	NONE	NONE	Ongoing	200408	200505	4,855	750	4,105	MMWD service area	Native Plants	HE4	NONE	NONE	NONE
55	Willis Evans - STRAW: Enhancing Habitat in the Arroyo Corte Madera del Presidio and Redwood Creek Watersheds	Removal of non-native plants and planting of native plants at Old Mill Creek Park and Redwood Creek watershed	MMWD	NONE	NONE	Ongoing	200409	200502	48,300	15,000	33,300	Old Mill Creek Park and Redwood Creek Watershed	Native Plants	HE4	NONE	NONE	NONE
56	Water System Security	<ul style="list-style-type: none"> <li>· As required by the EPA, MMWD completed of a system-wide security vulnerability assessment to reduce the possibility of vandalism, sabotage and terrorist attacks in 2002,</li> <li>· Has incorporated the results of our vulnerability assessment into our Emergency Operations Plan,</li> <li>· Has developed different operational plans based on the national threat level in combination with details of the specific threats,</li> <li>· Became a member of the Water Information Sharing and Analysis Center, a new water industry association that provides a valuable link between water agencies across the nation and the Department of Homeland Security,</li> <li>· Has incorporated security improvement projects into the District's capital improvement plan,</li> <li>· Continues close collaboration with local law enforcement, FBI and other large water utilities in the Bay Area.</li> </ul>	MMWD	NONE	NONE	Ongoing	0	999999	1	1	1	MMWD service area and facilities	NONE	NONE	NONE	NONE	NONE
57	North Bay Watershed Stewardship Plan	<ul style="list-style-type: none"> <li>* Plan to coordinate and integrate efforts of North Bay water agencies to improve and protect the San Pablo Bay watershed</li> <li>* Focused on 5 resource areas: water supply, water quality, habitat protection, flood protection, and recreation</li> <li>* This database is collecting all the data for Phase 2 of the WSP</li> </ul>	NBWA	NONE	NONE	Ongoing	200001	999999	1	1	1	San Pablo Bay watershed, Marin, Sonoma, Napa counties	NONE	WS1	WQ1	FP1	HE1



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58	Alternative Filtration Study	*Study to analyze alternatives for filtering pond effluent *Considered alternatives include, dissolved air flotation units (DAF) and fuzzy filters *Black and Veach is currently conducting a pilot study. Black and Veach is analyzing pilot study data. <b>*Is this study completed? If not, when will this study be completed?</b> <b>Potential need for funding</b>	NASD	NONE	NONE	Ongoing	200301	200412	1	1	1	Areas affected by effluent from Napa San WWTP	NONE	WQ1	NONE	NONE	NONE
59	Canero Recycled Water Project	*Project would convey recycled water to Caneros for irrigation of vineyards *The area has been surveyed *Negative Declaration has been completed *Funding is needed to construct pipeline under the Napa River Fits in MST Funding needed	NASD	NONE	NONE	Ongoing	0	999999	1	1	1	Vineyards in Caneros, Napa River (pipeline underneath)	NONE	WS1	WS3	NONE	NONE
60	Chardonnay Golf Course Recycled Water Project <b>Need project supplemental</b>	*Pipeline construction project to convey recycled water for irrigation of two and a half golf courses. <b>Are there other construction components?</b> <b>*What phase is this project in?</b>	NASD	NONE	NONE	Completed	199201	199212	1	1	1	On Hwy 12 between Napa and Fairfield	NONE	WS1	WS3	NONE	NONE
61	Collection System Flow Monitoring	*Flow monitoring is done to identify I&I areas *This is an ongoing project involves flow monitoring of basins and sub basins *Collection system does not have capacity issues *Next phase will be to develop sewer master plan	NASD	NONE	NONE	Ongoing	200301	200512	1	1	1	Napa San service area	NONE	WQ1	WQ2	NONE	NONE
62	Copper Translator Study	*This study was conducted to address issues related to NPDES permit <b>*Dissolved vs. total copper factor</b>	NASD	NONE	NONE	Ongoing	0	200412	1	1	1	Napa San service area and discharge point	NONE	WQ1	NONE	NONE	NONE
63	Fats Oils and Grease (FOG) Program	*NASD is currently looking for ways to feed FOG into digester using a receiving station *Potential need for funding	NASD	NONE	NONE	Ongoing	200401	200512	1	1	1	Napa San WWTP digesters, and locations where cake is landfilled	NONE	WQ1	NONE	NONE	NONE
64	Fecal Coliform Study	<b>*Is this for NPDES compliance or for recycled water quality?</b> *Purpose of study is to test for fecal and enterococcus instead of total coliform Results of study will lead to changes in disinfection	NASD	NONE	NONE	Completed	200201	200412	1	1	1	Napa San service area and discharge point	NONE	WQ1	NONE	NONE	NONE



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65	MST Area <b>Need formal project title.</b> Miliken Creek, Sarco Creek, and Tulcoay Creek	*MST is a water-deficient area. The groundwater table is being depleted. *There are several golf courses and vineyards that could benefit from recycled water use *MST is located outside of the NASD service area	NASD	NONE	NONE	Ongoing	200301	200412	1	1	1	Watersheds of Miliken Creek, Sarco Creek, and Tulcoay Creek	NONE	WS1	WS3	NONE	NONE
66	Napa College Recycled Water Project <b>Need Recycled Water Master Plan</b>	Striblow Drive Recycled Water Project will serve a portion of the college (18-inch pipeline) Water for irrigation One phase, next phase is Napa State Hospital <b>*Are there other project components besides pipeline</b> <b>*How will recycled water be used? Irrigation of playing fields, campus landscape, etc?</b> *Project currently in construction phase	NASD	NONE	NONE	Ongoing	200301	200412	500,000	1	1	Napa College campus, soon Napa State Hospital (see below)	NONE	WS1	WS3	NONE	NONE
67	Napa River Ambient Background Study	*This study was conducted to determine whether Napa River was impaired for any constituents of concern *NASD partnered with American Canyon and Calistoga NASD funded 88% of project <b>*What were the findings of this study?</b>	NASD	NONE	NONE	Completed	0	200312	1	1	1	Napa River	NONE	WQ1	WQ2	WQ3	HE2
68	Napa State Hospital Project	<b>*Are there other project components besides pipeline in current phase?</b> *Future phase will include additional pipeline to supply storage tank behind hospital *How will recycled water be used? Irrigation of playing fields, campus landscape, etc? *Project currently in 98% design phase for hospital *Other 2 stages at 40% cost Environmental work complete	NASD	NONE	NONE	Ongoing	200301	999999	19,000,000	19,000,000	0	Napa State Hospital Grounds	NONE	WS1	WS3	NONE	NONE
69	Napa Sanitation District NPDES Permit	*NPDES Permit was received in 2000 and amended in 2002 *Several lawsuits have been made by NASD against State Board regarding copper and mercury limits and pond effluent BOD. Cyanide was an issue but has now been resolved *BAWA is supporting lawsuit effort *In response to copper limits, copper translator study was prepared <b>*When will the remaining issues be resolved?</b> <b>Is there a need for funding to conduct additional studies?</b>	NASD	NONE	NONE	Ongoing	200001	200412	1	1	1	Napa San service area and discharge point	NONE	WQ1	NONE	NONE	NONE
70	Nutrient Removal Study	*Would like funding to do a study on nutrient removal and cyanide production *Plant does not currently do nutrient removal	NASD	NONE	NONE	Proposed	200312	999999	1	1	1	Napa San service area and discharge point	NONE	WQ1	NONE	NONE	NONE



## Appendix A: Database of Existing Agency and Stakeholder Projects and Programs

ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
71	Pollution Prevention Programs	*NASD sends inspectors out to educate restaurant owners and managers on proper disposal of FOG *NASD partnered with City of NAPA to send school age children on treatment plant tour. NASD pays for the buses to transport students *NASD send out newsletter to customers *NASD manages mercury thermometer exchange program *NASD participates in Green Business Days *NASD distributes "Clean It" pamphlet which includes information on proper disposal of hazardous cleaning supplies and how to use alternative, environmentally friendly cleaning products	NASD	NONE	NONE	Ongoing	0	999999	1	1	1	Napa San service area	NONE	WQ1	WQ2	REC4	NONE
72	Porta Mat Project	*NASD would like to enforce use of porta mats at car dealerships where car washing takes place. Porta mats collect waste stream water from car washing and prevent drainage of pollutants into sewer and storm drain system	NASD	NONE	NONE	Proposed	0	999999	1	1	1	Napa San service area	NONE	WQ1	WQ2	WQ4	WQ5
73	Recycled Water for Industrial Parks <i>Need Formal Title</i>	*Water will be used for irrigation *Work involves conditioning/inspection and pipeline extension *Funded out of operations/capital budget	NASD	NONE	NONE	Ongoing	199201	999999	1	1	1	Various industrial parks in Napa San service area	NONE	WS1	WS3	NONE	NONE
74	Recycled Water Market Analysis <i>Need formal title</i>	*West and Yost is conducting a study to see how recycled water can benefit surrounding cities <i>*What is the status of this project? What cities have been identified?</i>	NASD	NONE	NONE	Ongoing	0	999999	1	1	1	Cities surrounding Napa	NONE	WS1	WS3	NONE	NONE
75	Shehey Stewardship Project	*This project will restore tree canopy over stream. Stream is located on NASD's ranch <i>*What are the components of this project?</i> *Funding is needed to revive project	NASD	NONE	NONE	Ongoing	0	999999	1	1	1	Shehey Creek watershed	NONE	HE5	NONE	NONE	NONE
76	Swimming Pools	*NASD is trying to devise new ways to prevent drainage of swimming pools during peak flow periods (i.e. rainy season) <i>*Is a study required for this analysis? If so, is funding needed?</i>	NASD	NONE	NONE	Ongoing	0	999999	1	1	1	Napa San service area	NONE	WS4	WQ1	WQ4	WQ5
77	Tertiary Recycled Water for Vineyards ( <i>Need formal title</i> )	*This study will analyze the feasibility of using tertiary recycled water to irrigate vineyards. Study will look at salts and nutrients *This study is being developed for customers *NASD will work with farmers and UC extension scientists *Project scope is currently being developed *It is anticipated that this study will be completed by the end of the year	NASD	UCX	NONE	Ongoing	200401	200512	40,000	1	1	Vineyards in Napa area	NONE	WS1	WS3	WQ2	NONE



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78	Zero Discharge Study	*Study addressed potential for new users *Study analyzed operational modification to make better use of storage. Considered the feasibility of allowing ponds to be full instead of empty during the early summer. This alternative would prevent NASD from having to construct more ponds	NASD	NONE	NONE	Ongoing	200301	200412	1	0	1	Storage facilities at Napa San treatment plants	NONE	WS1	WS3	NONE	NONE
79	NBWA Conservation Garden Brochure	* Brochure created for member agencies to distribute regarding water conservation gardens in area	NBWA	NONE	NONE	Completed	0	200312	4,000	1	1	NBWA's Agency Service Areas	NONE	REC4	WS4	NONE	NONE
80	NBWA Mercury Pollution Prevention Program	* Initial Phase 1 completed in 2003 involved outreach to area dentists * Phase 2 to begin Spring 2004 involves florescent lamp recycling	NBWA	MMWD	SCWA	Ongoing	200207	200502	50,000	1	1	Marin, Sonoma, Napa counties	NONE	WQ1	WQ4	REC4	NONE
81	Public Outreach and Education	*SCWA responsible for school outreach component *NMWD programs include (see agency fact sheet for more info): 1. Waterline Newsletter with customer usage and comparison (goes out 2-3x/yr) 2. Rebates for mulch and irrigation supplies 3. Cash for turf program 4. Toilet flapper coupons *NMWD would like to implement water conservation programs that discuss water supply reliability	NMWD	SCWA	NONE	Ongoing	0	999999	1	1	1	NMWD service area	NONE	REC4	WS4	REC5	NONE
82	Stafford Lake Monitoring	*NMWD currently monitors first flush from Stafford Lake to determine initial nutrient loading. Additional monitoring is done later in the year to draw comparisons. Water quality data from this study is available upon request. *NMWD monitors cryptosporidium at Stafford Lake. <b>Any issues?</b> *Program in place to monitor bass and blue gill fish counts at Stafford Lake Fishery <b>*Is there any other monitoring that should be in place?</b>	NMWD	NONE	NONE	Ongoing	0	999999	1	1	1	Stafford Lake, west of Novato	Wildlife	WQ2	HE2	NONE	NONE
83	Stafford Lake Trails	*NMWD has an agreement with Marin County Open Space to manage trails near Stafford Lake <b>*Any plans to expand trails?</b>	NMWD	MARINOS	NONE	Ongoing	0	999999	1	1	1	Trails near Stafford lake	NONE	REC1	NONE	NONE	NONE
84	Stafford Lake WTP Upgrade	*Upgrades include: 1. Pretreatment w/chlorine oxide for algae removal 2. ActiFlow system w/conventional filtration 3. Installation of sludge thickener at existing clarifiers *Funding: \$2 M from SCWA and remaining \$10 M from SRF Loan *Upgrades do not include additional capacity	NMWD	SCWA	NONE	Ongoing	0	999999	12,000,000	1	0	NMWD service area	NONE	WS1	NONE	NONE	NONE



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85	Stafford Lake Watershed Cryptosporidium Control	* No description available	NMWD	NONE	NONE	Ongoing	0	999999	1	1	1	Watershed area around Stafford Lake	NONE	WQ2	WQ3	NONE	NONE
86	Stone Tree Golf Course Recycled Water Project	*Recycled WTP to supply water to Stone Tree Golf Course *Recycled WTP will produce 0.5 MGD *Final design will be completed Spring 2004 *Project components (pipeline, treatment processes, etc.)?	NMWD	NONE	NONE	Ongoing	0	999999	1	1	1	Stone Tree Golf Course near Hwy 101, Hwy 37 interchange	NONE	WS3	WQ1	NONE	NONE
87	Valley Golf Course Monitoring	*Program in place to monitor herbicide application at Indian Valley Golf Course	NMWD	NONE	NONE	Ongoing	0	999999	1	1	1	Indian Valley Golf Course, near Stafford Lake	NONE	WQ5	WQ1	NONE	NONE
88	WTP Monitoring	*Program in place to monitor aquacide application (for algae control) at water treatment plant.	NMWD	NONE	NONE	Ongoing	0	999999	1	1	1	Novato WTP, at Stafford Lake	NONE	WQ3	NONE	NONE	NONE
89	Conversion of Irrigation Fields to Wetlands	* Possibility dependant on other options presented * No public access * Not sure where this is proposed	NOSD	NONE	NONE	Proposed	999999	999999	1	1	1	Irrigation fields in NOSD service area	NONE	HE5	NONE	NONE	NONE
90	Dechlorination Station Upgrade and Relocation	* Part of Hamilton Wetlands Restoration Project	NOSD	USACE	NONE	Planned	999999	999999	1	1	1	NOSD service area	NONE	WQ1	NONE	NONE	NONE
91	Hazardous Waste Recycling Program	* Works with Novato Hazardous Waste Facility to reduce improper disposal of hazardous waste	NOSD	NDIS	NOCITY	Ongoing	0	999999	305,000	295,000	10,000	NOSD service area	NONE	WQ2	NONE	NONE	NONE
92	High School Pollution Prevention Education	* Would like to research Palo Alto program and maybe implement a similar program with 4/5 teachers/week	NOSD	NONE	NONE	Idea	999999	999999	1	1	1	NOSD service area	NONE	REC5	WQ1	WQ2	NONE
93	Ignacio Plant Interim Improvements	* Will there be upgrades to deal with high levels of TSS and coliform levels or wait until new plant is developed?	NOSD	NONE	NONE	Planned	999999	999999	1	1	1	NOSD service area	NONE	WQ1	NONE	NONE	NONE
94	New Combined WWTP	* New treatment plant will treat wastewater currently treated at both the Novato and Ignacio plants * Three alternatives are being considered and vary according to the selected secondary treatment process (oxidation ditch, MBR, and activated sludge) * Treatment plant will have 31 mgd capacity * Funding for this project will either be in the form of an SRF loan or bond	NOSD	NONE	NONE	Planned	200501	201112	60,000,000	1	60,000,000	NOSD service area	NONE	WQ1	NONE	NONE	NONE
95	Pollution Prevention Public Outreach	* FOG program * Mercury program based on database of commercial/medical/dental users of mercury * Community event attendance * Newsletter participation	NOSD	NONE	NONE	Ongoing	200001	999999	33,500	1	1	NOSD service area	NONE	WQ1	WQ2	NONE	NONE



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96	Recycled Water Master Plan	* Identified potential demands * Showed potential to irrigate golf courses and parks	NOSD	NMWD	NONE	Completed	200201	200301	5,000	1	1	NOSD service area	NONE	WS3	WQ1	NONE	NONE
97	Sanitary Sewer Collection System Assessments	* As part of meeting guidelines established by the Capacity, Maintenance and Operations Program (CMOM), NSD has begun conducting sanitary sewer collection system assessments, which will identify hydraulic capacity limitations and the need for pipeline repairs and manhole replacements. * Data collected during inspections will be used to develop an asset management plan.	NOSD	NONE	NONE	Ongoing	200301	200912	350,000	1	350,000	NOSD service area	NONE	WQ1	WQ2	NONE	NONE
98	School Curriculum and Field Trips	* Works with SEED to develop and implement programs	NOSD	NONE	NONE	Ongoing	200001	999999	1	1	1	NOSD service area	NONE	REC4	NONE	NONE	NONE
99	Start a newsletter	* Currently just contributes to existing	NOSD	NONE	NONE	Idea	999999	999999	1	1	1	NOSD service area	NONE	REC4	NONE	NONE	NONE
100	C Street Sewer Pump Station Upgrade	Pump station upgrade to improve reliability and capacity. Project will improve overflow problems. <b>Will the new pump station have greater capacity?</b>	PETCITY	NONE	NONE	New	200401	200612	1	1	1	C Street and surrounding areas	NONE	WQ1	WQ4	WQ5	NONE
101	H Street Storm Drain Project	Project involves installing storm drains in downtown areas where storm drains are not currently present. PETCITY is working with SCWA to obtain funding	PETCITY	SCWA	NONE	Ongoing	200401	999999	1	1	1	Downtown Petaluma	NONE	FP1	FP3	NONE	NONE
102	New Water Conservation Programs	PETCITY would like to extend reuse education to dairy industry	PETCITY	NONE	NONE	Idea	999999	999999	1	1	1	Dairy farms surrounding Petaluma city limits	NONE	WS4	NONE	NONE	NONE
103	Other Recycled Water Opportunities	Would like to increase urban water recycling for parks and school irrigation. Need funding to develop feasibility study	PETCITY	NONE	NONE	New	200501	200812	1	1	1	Parks and schools in the Petaluma area	NONE	WS1	WS3	NONE	NONE
104	Other Storm Drain Projects	PETCITY would like to extend storm drain installation to other areas	PETCITY	SCWA	NONE	Ongoing	0	999999	1	1	1	City of Petaluma service area	NONE	FP1	FP3	NONE	NONE
105	Paula Lane Reservoir	Construction of additional 1 MG reservoir to increase operational reliability	PETCITY	NONE	NONE	Unknown	200401	200612	1	1	1	City of Petaluma service area	NONE	WS1	NONE	NONE	NONE
106	Petaluma Flood Control Projects	US Army Corp to connect railroad to new bridge. The bridge was recently rebuilt because was too close to the Petaluma River. PETCITY did all neighborhood coordination.	PETCITY	USACE	NONE	Ongoing	200301	200412	1	1	1	Area around Petaluma River and new bridge?	NONE	FP1	NONE	NONE	NONE
107	Petaluma Marsh Access Enhancement	As part of WWTP upgrade, City has acquired land through Coastal Conservancy and Sonoma County Open Space. <b>How will this land be used?</b> Project will include trail expansion and public outreach component.	PETCITY	NONE	NONE	Ongoing	200501	200812	1	1	1	Petaluma marsh	NONE	REC1	REC4	REC2	REC5



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108	Petaluma River Flood Restoration	Project involved widening the river and installing concrete walls. Need more info.	PETCITY	NONE	NONE	Ongoing	0	999999	1	1	1	Petaluma River within city of Petaluma	NONE	FP1	WQ7	NONE	NONE
109	Pollution Prevention Programs	*Inspectors visit restaurant owners/mangers to educate them on proper fat and grease disposal *PETCITY certifies local businesses as green businesses if they meet certain wastewater disposal criteria	PETCITY	NONE	NONE	Ongoing	0	999999	1	1	1	City of Petaluma service area	NONE	WQ1	WQ5	NONE	NONE
110	Rooster Run Golf Course Recycled Water Pipeline	* Pipeline project to convey recycled water to Rooster Run Golf Course. * Will serve as the backbone of future recycled water projects in the future.	PETCITY	NONE	NONE	Ongoing	200308	200406	3,000,000	1	1	Area around pipeline feeding recycled water to RRG on east side of	NONE	WS1	WS3	NONE	NONE
111	Water Conservation Programs	*PETCITY provides rebates to customers who purchase water efficient washing machines *PETCITY provides funding for schools to replace turf with alternative playing surfaces *PETCITY is also involved in SCWA conservation programs *PETCITY offers the toilet retrofit program to commercial and residential customers	PETCITY	NONE	NONE	Ongoing	0	999999	1	1	1	City of Petaluma service area	NONE	WS4	NONE	NONE	NONE
112	Water Recycling Facility Project	New 6.7 MGD recycled water plant for tertiary treatment of wastewater. The old recycling plant will be decommissioned. This project is currently in the 90% design phase. Plant will go online in 2008. Project is mostly funded through bonds.	PETCITY	NONE	NONE	Ongoing	200501	200812	1	1	1	Areas near Petaluma that use recycled water	NONE	WS1	WS3	NONE	NONE
113	Creek Restoration Public Outreach	* Informational pamphlet is distributed to resident who are owners of neighborhood creeks. City encourages residents to maintain creek beds to prevent buildup of debris. *Funded through annual budget	SANRACITY	NONE	NONE	Ongoing	0	999999	1	1	1	City of San Rafael service area, homes that have creeks	NONE	WQ6	FP5	HE3	WQ7
114	Development Coordinating Committee (DCC)	*Storm water staff sit on the DCC to ensure that BMPs are used by entities/individuals when designing new development and redevelopment Roof drains to landscaping Treating water on site	SANRACITY	NONE	NONE	Ongoing	0	999999	1	1	1	City of San Rafael service area	NONE	FP3	NONE	NONE	NONE
115	Mahon Creek Restoration	*City restoration of privately owned creek *Clearing of brush, garbage, etc. *Project will be financed by residents who own property within stream R/W *In the planning phase *Hoping to wrap up by the end of the summer	SANRACITY	NONE	NONE	Ongoing	200401	200408	1	1	1	Sun Valley Park, Grestle Park	NONE	WQ7	HE3	REC2	REC4
116	Operations and Maintenance of Storm water System	*City performs normal maintenance of storm water collection system. *City is responsible for storm water code enforcement	SANRACITY	NONE	NONE	Ongoing	0	999999	1	1	1	City of San Rafael service area	NONE	FP3	NONE	NONE	NONE



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117	Santa Margarita Channel Enhancement	* Removal of concrete sections on either side of channel to make room for improved landscaping * Joint partnership between the City of San Rafael and Santa Margarita Community Organization	SANRACITY	SMCO	NONE	Planned	0	999999	1	1	1	Near Santa Margarita Road	NONE	HE3	HE5	REC4	NONE
118	Private Creek Surveying Program	*City conducts surveys of privately owned creeks and informs residents about needed maintenance *Due to limited funds, the City does not currently survey creeks on a regular basis.	SANRACITY	NONE	NONE	Idea	0	999999	1	1	1	City of San Rafael service area, homes that have creeks	NONE	WQ6	FP5	HE3	NONE
119	Smith Ranch Road Pond	*Dredging of detention pond near existing apartment building and senior care facility *City to establish an agreement with property to share cost of project *Would like to remove nonnative plants and plant native species plants *Would like to keep pond permanently filled for habitat *Would like to remove debris and garbage as part of dredging *Would like to set up yearly maintenance *Project planning began last year but came to a halt when the City asked the developer to cover cost for dredging (not part of written agreement) *Project will go to City council for approval within the next 2 months City will oversee project for free	SANRACITY	NONE	NONE	Ongoing	0	200409	100,000	1	1	Near border dividing Miller and Gallinas subwatersheds	NONE	HE4	FP5	NONE	NONE
120	South Pond Bay Trail	*This project is part of the Bay trail expansion *Widening and paving of pedestrian walkways *Funded by \$109k grant from ABAG *Project cost is approximately \$200k. City does not have funds available to cover the difference. Planning department is working to locate alternative funding. *Project to be completed by Summer 2004? *In partnership with the Marin Conservation League, the City of San Rafael will construct a quarter mile of Bay Trail along the edge of a small pond in Shoreline Park. Marin Conservation Corps and California Conservation Corps members will receive training about local habitats and native landscaping through an educational slide show and hands-on instruction from the Marin Conservation League.	SANRACITY	ABAG	NONE	Proposed	200302	200408	200,000	109,000	91,000	Along Shoreline Park in San Rafael	NONE	REC1	HE4	NONE	NONE



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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
121	Adobe Creek Fish Baffle Project	*In 2002, the Sonoma County Department of Transportation and Public Works (TPW) installed a Washington baffle system in the concrete box culvert where Adobe Road crosses Adobe Creek. The baffles increase water depth and decrease water velocity inside the culvert, resulting in favorable conditions for fish passage. The work was partially funded by a grant from the California Department of Fish and Game (DFG), under Proposition 13. Follow-up work occurred in 2003 using Adaptive Management funds, also from the DFG, to correct remaining fish passage constraints leading up to the crossing.	SCDTPW	CDFG	NONE	Ongoing	0	999999	1	1	1	Adobe Creek at the intersection of Old Adobe and Casa Grande Roads	Fish	HE5	NONE	NONE	NONE
122	Warm Springs Road	*TPW is currently working with the Sonoma Ecology Center to restore historic steelhead rearing pools adjacent to Warm Springs Road on Sonoma Creek. The creek was undermining the road. The project involves embedding large logs in the creek bank with fill and revegetation to protect the road and save the pools. One of the pools was approximately ninety feet long and four feet deep.	SCDTPW	SEC	NONE	Ongoing	0	999999	1	1	1	Area adjacent to Warm Springs Road on Sonoma Creek	Steelhead	HE1	HE5	WQ7	NONE
123	Adobe Creek	* Trail along creek (no signs)	SCWA	NONE	NONE	Completed	0	200312	1	1	1	Along Adobe Creek	NONE	REC1	NONE	NONE	NONE
124	Asbury Creek	*TPW worked with the Sonoma Ecology Center to install baffles to facilitate fish passage to pristine upstream habitat on Asbury Creek, a tributary of Sonoma Creek at Arnold Drive near Glen Ellen. The project was funded with a grant from the DFG.	SCWA	CDFG	SEC	Completed	0	999999	1	1	1	Asbury Creek at Arnold Drive near Glen Ellen	Fish	HE5	NONE	NONE	NONE
125	Customer Educational Outreach	* SCWA distributes a newsletter, "Hydro Herald News" that informs customers about upcoming projects and workshops, pollution prevention, and water conservation	SCWA	NONE	NONE	Ongoing	0	999999	1	1	1	SCWA Service Area	NONE	REC4	WS4	WQ1	NONE
126	Dry Weather Flow Capacity Analysis	Objective was to determine the treatment plant's treatment capacity under dry weather flow conditions.	SCWA	SVCS	NONE	Completed	0	200312	12,000	1	1	Sonoma Valley County Sanitation District's treatment plant	NONE	WQ1	NONE	NONE	NONE
127	Eldridge Madrone Segment of the Sonoma Aqueduct	* Improvements needed on pipeline delivering water to city of Sonoma from SCWA system * 3 segments needing improvements, each a separate project * Sonoma contribution determined by water delivered (\$/AF), city of Sonoma's portion ~\$60,000	SCWA	SONCITY	NONE	Ongoing	999999	999999	1	60,000	1	Sonoma Aqueduct and city of Sonoma water service area	NONE	WS1	NONE	NONE	NONE



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128	Historic Ecology Study	* Initial funding \$30K finding from SCWA was from SEP fine money. SCWA no longer is required to pay and therefore SEC will be down that amount for this project	SCWA	SEC	NONE	Ongoing	0	999999	30,000	1	1	SCWA Service Area	Wildlife	HE2	NONE	NONE	NONE
129	Marin-Sonoma-Napa Irrigation District	*Project that would encompass the treatment for wastewater from six agencies and pump water to a central storage pond where it would be treated further at a single tertiary plant, then provided as irrigation water to multiple districts *Participating agencies include NOSD , PETCITY, SVCSD., City of Napa, City of American Canyon *FUNDING NEEDED FOR THIS PROJECT	SCWA	NOSD	PETCITY	Proposed	201201	201401	100,000,000	1	1	LGVSD, Novato sanitary , PETCITY, Sonoma Valley San., City of Napa, City of American Canyon	NONE	WS1	WS3	NONE	NONE
130	Metal Translator Study	* Site specific to Sonoma Valley	SCWA	NONE	NONE	Ongoing	0	999999	1	1	1	Sonoma Valley	NONE	WQ1	WQ2	NONE	NONE
131	Napa Salt Marsh Restoration Project	* SCWA is working with CDFG, the San Francisco Bay Regional Water Quality Control Board, the US Army Corps of Engineers and the Coastal Conservancy to develop a plan for restoration of these marshlands * SCWA is developing a plan to provide recycled water from sanitation plants near San Pablo Bay for use in site restoration * The project could use available recycled water that may otherwise be discharged to San Pablo Bay for a period of 10 to 15 years to accomplish restoration * Facilities could subsequently be used to provide water for agricultural use	SCWA	USACE	CDFG	Proposed	199401	201512	20,000,000	1	6,600,000	Near the mouth of the Napa River, along San Pablo Bay, on Hwy 37 between Novato and Vallejo	Wildlife	WS1	WS3	HE5	NONE
132	Nathanson Creek	* Trail along creek (no signs)	SCWA	NONE	NONE	Completed	0	200312	1	1	1	Nathanson Creek near Sonoma	NONE	REC1	NONE	NONE	NONE
133	Petaluma Area Groundwater Study	* Build upon Sonoma Valley Study - same description and methodology expected	SCWA	SONOMACO	NONE	Planned	200501	200812	1	1	1	City of Petaluma area	NONE	WS2	WQ3	NONE	NONE
134	Phase 2 Stormwater Management Plan BMP Implementation	* Permit has many BMPs that must be implemented for permit * Check Permit for specifics *BMPs include: ??	SCWA	NONE	NONE	Ongoing	200301	999999	1	1	1	SCWA Service Area	NONE	WQ4	WQ5	FP3	NONE
135	Public Understanding of Water Issues Baseline Survey	* Survey conducted to assess public's understanding of issues such as stormwater, recycling, conservation and others. * Results determined that there is a need for more stormwater outreach	SCWA	NONE	NONE	Completed	0	200312	30,000	1	1	SCWA Service Area	NONE	REC5	WS4	WQ1	NONE
136	San Antonio Creek Project	* Some elements of signage etc.	SCWA	NONE	NONE	Proposed	999999	999999	1	1	1	San Antonio Creek Watershed	NONE	REC2	REC5	NONE	NONE



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137	Sonoma Valley Groundwater Study	* Partial funding from USGS (\$475,000) and the remainder from agency funds (\$686,500) *Understanding of the regional ground-water/surface-water system in the Alexander, Santa Rosa, and Sonoma valleys * Hydraulic model to evaluate how pumping in one area can impact another * GIS *Russ. River. water-quality sampling * Update on 1970-80s GW study	SCWA	SONOMACO	NONE	Ongoing	0	999999	1,161,500	1,161,500	0	Sonoma County	NONE	WS2	WQ3	NONE	NONE
138	Sonoma Valley Recycled Water Feasibility Study	* Project will identify recycled water projects that will offset demand for potable water. Will provide alternative source of water for vineyards and reduce discharge to the San Pablo Bay * Includes EIR/S work * Potential users include Mills Dairy Farm and other agricultural users, Sonoma State Hospital, golf courses, regional parks, and Hana Boy's Center *Cost of study will range from \$250,000 to \$320,000	SCWA	SVCSD	NONE	Ongoing	200101	200803	645,000	75,000	570,000	Sonoma Valley	NONE	WS1	WS3	WQ1	NONE
139	Stormwater Outreach Program	* Expand on existing program * Need was generated as a result of baseline survey that indicated public knowledge is below desired level regarding stormwater	SCWA	NONE	NONE	Idea	999999	999999	1	1	1	SCWA Service Area	NONE	REC4	FP5	NONE	NONE
140	Survey of Sonoma County Voters	* Telephone survey of 612 Sonoma County voters conducted for SCWA by Evans/McDonough Company (EMC) * Covered public awareness of Sonoma County environmental issues, SCWA, water conservation, watershed and storm drain system, and recycled water.	SCWA	NONE	NONE	Completed	200309	200309	1	1	1	SCWA Service Area	NONE	REC5	REC4	REC3	NONE
141	Hydrologic/Hydraulic Analysis of the Petaluma River Watershed	* A comprehensive hydrologic/hydraulic analysis of the Upper Petaluma River Watershed within Zone 2A boundaries using a surface water management model (XP-SWMM) developed by the City of Petaluma. * To evaluate the feasibility of the flood control and drainage improvement projects presented in the June 2003 Master Drainage Plan. * The results of each model run will be used to modify the project designs to ensure they provide the anticipated benefits and do not adversely affect the watershed. * The results will help to set funding priorities and ensure functional compatibility between individual projects	SCWA	PETCITY	SONOMACO	Ongoing	200312	999999	50,000	1	1	Petaluma River watershed above the junction with Adobe Creek	NONE	FP1	NONE	NONE	NONE

## Appendix A: Database of Existing Agency and Stakeholder Projects and Programs

ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
142	Target Conservation Project for Sonoma Development Center	* Area is outside of NBWA, but since water supply is linked to RR, decreased use of any RR, will benefit SCWA supply to NBWA area.	SCWA	NONE	NONE	Ongoing	0	999999	1	1	1	Eldridge	NONE	WS4	NONE	NONE	NONE
143	Railroad Avenue Drainage Study	* To investigate the hydrologic conditions of this area and redefine the boundary between Zone 1A and 2A * Drainage in this area has been affected by development in the City of Cotati and Rohnert Park as well as grading work by various landowners in the area	SCWA	SCDTPW	NONE	Ongoing	200311	999999	100,000	1	1	The area west of Petaluma Hill Road and North of Railroad Avenue (the most northwesterly tributary to the Lichau Creek drainage area)	NONE	FP1	FP4	NONE	NONE
144	Martin Creek/Denman Flats Drainage Study	* To investigate the hydrology, hydraulics, routing, right-of-way and environmental issues in the drainage area and propose a drainage improvement project (Zone 2A)	SCWA	NONE	NONE	Ongoing	200310	999999	50,000	1	1	Marin Creek between Skillman Lane and the confluence with the Petaluma River, northwest of the City of Petaluma	NONE	FP1	FP4	NONE	NONE
145	Skillman/Liberty Channel Maintenance and Revegetation	* Removal of debris and trees that have grown up in a drainage channel perpendicular to Skillman Lane. Only those Trees that impede the flow of water within the defined banks of the creek will be removed. * The revegetation will promote canopy growth over the channel, to discourage new growth in the channel by shading	SCWA	NONE	NONE	Completed	200111	999999	50,000	1	1	Approx 400 feet to the north of Skillman Lane near its intersection with Liberty Road, outside the city of Petaluma	NONE	FP4	WQ6	WQ7	NONE
146	Petaluma River Clearing and Revegetation (Corona Road reach)	* Removal of vegetation from inside the banks of the Petaluma River and replanting along the upper banks	SCWA	NONE	NONE	Completed	200011	999999	83,000	1	1	Along the Petaluma River between Old Redwood Highway and Corona Road, within the city limits of Petaluma	NONE	FP4	WQ6	WQ7	NONE

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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
147	Update of Petaluma Watershed Master Drainage Plan	* To update the Petaluma Watershed Master Drainage Plan	SCWA	NONE	NONE	Completed	200011	999999	150,000	1	1	Petaluma River watershed above the junction with Adobe Creek	NONE	FP1	FP2	NONE	NONE
148	Adobe Creek Channel Maintenance and Revegetation	* Project will alleviate flooding in the residential area adjacent to Adobe Creek * Project will consist of selective willow removal and removal of sediment that has built up because of the vegetation	SCWA	NONE	NONE	Completed	200010	999999	305,000	1	1	Along Adobe Creek between Sartori Drive and South Ely Blvd within Petaluma city limits	NONE	FP4	WQ6	WQ7	NONE
149	Lichau Creek Channel Maintenance and Revegetation	* Removal of debris and trees that have grown in the main channel of Lichau Creek * Revegetation will occur along the banks to shade the channel	SCWA	NONE	NONE	Completed	200010	999999	77,000	1	1	Along Lichau Creek, just north of Adobe Rd and south of Main St in the central Penngrove business district	NONE	FP4	WQ6	WQ7	NONE
150	Corporation Yard Runoff Retention and Pollutant Removal Pilot Project	* To implement BMPs in a utility corporation yard to protect the adjacent Rush Creek from non-point source pollutants originating in storm water runoff. * Potential BMPs may include storm water retention basins and unpaved areas integrated with the NMWD water conservation demonstration gardens. * The corporation yard is 62,250 square feet in size and includes areas for fuel storage and dispensing, material lay down, and vehicle parking and washing.	NMWD	NONE	NONE	Proposed	0	999999	311,600	0	311,600	A utility corporation yard (62,260 ft2) adjacent to Rush Creek	NONE	WQ5	FP3	NONE	NONE

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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
151	Evaluation of Alternative Non-toxic Weed Control Method	<p>* 3-year trial program to evaluate the ecological impacts, efficacy, and cost-benefit factors of a weed control system that employs a non-toxic, heated foaming agent.</p> <p>* The Waipuna hot foam system appears to offer a non-toxic treatment option for removal of invasive species.</p> <p>* Limited tests (in March of 2003) demonstrated that the system can have desired effects in controlling French broom and periwinkle (invasive species)</p> <p>* The system would be leased for 2 years and used in upland and riparian habitats of Marin and Sonoma counties.</p> <p>* Results will be shared with Marin-Sonoma Weed Management Area and other weed control management areas and agencies in the state</p>	MMWD	NONE	NONE	Proposed	200401	999999	311,920	0	311,920	In upland and riparian habitats of Marin County	NONE	HE4	WQ5	NONE	NONE
152	Stafford Lake Watershed Erosion Inventory and Ranch Management Planning	<p>* Update the inventory of active erosion areas in the Stafford Lake watershed to prioritize potential erosion control projects and most efficiently improve water quality in streams tributary to Stafford Lake, a drinking water source for the City of Novato.</p> <p>* The updated inventory will be used to support outreach to local ranchers and to develop a model Ranch Management Plan.</p>	NMWD	TBI	MCRCD	Proposed	200401	999999	80,200	0	80,200	Lake Stafford watershed, lands around Lake Stafford	NONE	WQ6	WQ5	NONE	NONE
153	Wetlands Restoration and Enhancement Study	<p>* To analyze the feasibility of restoring a historical wetland area utilizing tertiary-treated wastewater effluent as the primary water source</p> <p>* Involves the evaluation of 70 acre site within the lower Novato Creek watershed for ecosystem restoration utilizing highly treated wastewater.</p> <p>* Includes hydraulic and biological assessments, evaluation of water quality requirements, the need for polishing pre-treatment, and the applicability of results to this and other potential wetlands restoration sites in the North Bay.</p>	NOSD	NONE	NONE	Proposed	999999	999999	65,000	0	65,000	70-acre site within the lower Novato Creek Watershed	NONE	WQ1	HE1	HE2	NONE

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154	San Antonio Creek Wetlands Enhancement Plan	<p>* To design a freshwater wetlands restoration project in order to develop a habitat for wetland plants and animals while meeting flood control objectives</p> <p>* Site is a 15.6 acre former drive-in theater located on Hwy 101 at the Marin/Sonoma county border (site owned by SCWA)</p> <p>* Site was assessed by SCWA's Wetland Enhancement Plan (1989) with funding from Cal State Coastal Conservancy</p> <p>* Will improve wetland habitat through provision of foraging refuge, and brooding habitat for dabbling ducks and other waterfowl, while reducing flooding risks and providing access opportunity for public wildlife observation</p> <p>* Ongoing monitoring of physical and biological changes will occur during the first years of implementation</p> <p>* Performance indicators will include: rates of vegetation colonization, sedimentation rate, and waterfowl numbers</p>	SCWA	TBI	NONE	Proposed	999999	999999	174,400	0	174,400	On the Marin/Sonoma County line near Hwy 101	Waterfowl	HE1	FP4	REC2	HE3
155	Marin Creek Channel Maintenance and Revegetation	<p>* Removal of debris and trees that have grown in the main channel of Marin Creek.</p> <p>* Revegetation will occur along the banks to shade the channel and discourage new growth</p>	SCWA	NONE	NONE	Completed	199910	999999	51,000	1	1	Along Marin Creek between Bodega Ave and Skillman Lane, outside Petaluma city limits	NONE	FP4	WQ6	WQ7	NONE
156	Fifth Street East/Peru Road Conduit (Sonoma Master Drainage Plan)	* Installation of approximately 3,200 linear feet of 60" diameter concrete storm pipe, construction of a concrete box culvert to replace the existing culvert, along with 5 manholes and 10 inlets with 18" diameter side drains	SCWA	NONE	NONE	Completed	199911	200312	600,000	1	0	Immediately south of the Sonoma City limits, along 5th Street East from Napa Rd 2,500 ft south to Peru Road	NONE	FP1	FP4	NONE	NONE
157	First Street West Conduit Extension	* Construction of a 54-inch RCP storm drain to replace existing roadside ditches and old, substandard storm drain conduits and culverts	SCWA	NONE	NONE	Ongoing	200212	200506	850,000	1	0	Along 1st Street West within Sonoma City Limits, from Spain Street 1,000 feet north to the driveway of Arnold Field	NONE	FP1	FP4	NONE	NONE
158	TMDL Study for Sonoma Creek	* Identifies creeks impaired for pathogens and nutrients	SCWA	NONE	NONE	Ongoing	0	999999	1	1	1	Sonoma Creek Watershed	NONE	WQ1	WQ2	WQ3	NONE

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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
159	Water Education Program	* Program designed to teach teachers how to incorporate water education into their curriculum * Linked to conservation program * Includes stormwater program * Annual report available * HS students involved - student video contest	SCWA	NONE	NONE	Ongoing	0	999999	1	1	1	SCWA Service Area	NONE	REC5	WS4	FP5	REC4
160	Willow Brook Creek	* Trail along the creek has signs made by either SCWA or City of Petaluma	SCWA	PETCITY	NONE	Completed	0	200312	1	1	1	Along Willow Brook	NONE	REC2	REC5	NONE	NONE
161	Water Supply and Transmission System Project	* Project components include water conservation, increased use of the Russian River Project, and the expansion and revised operation of the existing transmission system. * Project involves increasing diversion from the Russian River by 26,000 AFY, thereby increasing total capacity of the transmission system from 92 MGD to 149 MGD. * South Transmission Pipeline Project consists of constructing 5 new pipelines, new collector, storage tanks, and booster pump stations along the existing Petaluma Aqueduct * EIR Supplemental done in March 2005. Temporary impairment on Petaluma pipe will extend till project complete. * Issues surrounding Eel River/Potter Valley project assessment	SCWA	NONE	NONE	Ongoing	0	201812	144,000,000	1	1	Russian River, Petaluma, SCWA service area	NONE	WS1	WS4	NONE	NONE
162	Water Quality Monitoring of receiving waters of Sonoma Valley Treatment Plant	* Water quality monitoring of SVTP effluent receiving waters according to NPDES requirements * SVTP discharges in to Schell Slough during wet weather and stores treated wastewater in reservoirs during dry months	SCWA	NONE	NONE	Ongoing	0	999999	1	1	1	Discharge Location of Sonoma Valley Treatment Plant (Schell Slough)	NONE	WQ1	NONE	NONE	NONE
163	City of Sonoma Adopt-a-Bike-Path program	* Bike paths running along Sonoma, Fryer and Nathanson creeks adopted to remove litter	SONCITY	NONE	NONE	Ongoing	200201	999999	1	1	1	Sonoma Creek along west edge of city of Sonoma; Fryer and Nathanson Creeks both run through the city of Sonoma	NONE	REC1	REC2	REC4	NONE
164	City of Sonoma Storage/Reservoir upgrades	* Adding seismic sensors to insure reliable supply during earthquake * Have 6 storage tanks, added 3 million gal tank (excessive), looking to sell 612,000 gal tank * 3 pumping stations for pressure zones	SONCITY	NONE	NONE	Ongoing	0	999999	1	1	1	Sonoma City Limits	NONE	WS1	NONE	NONE	NONE





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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
165	City of Sonoma Stormwater programs	* Posted, Phase II, but most need for funds * Outreach to restaurants, carwashes, other business to practice BMPs * No funds, but required to implement	SONCITY	NONE	NONE	Ongoing	0	999999	1	1	1	Sonoma City Limits	NONE	FP3	FP5	NONE	NONE
166	City of Sonoma Stream Monitoring Program	* Monitoring of Sonoma, Fryer, and Nathanson Creeks by Sonoma Ecology Center * Monitoring focuses on nutrients, sediments and pathogens * No funding, no way of paying * Will be included in stormwater permit	SONCITY	SEC	NONE	Ongoing	0	999999	1	1	1	Sonoma Creek along west edge of city of Sonoma; Fryer and Nathanson Creeks both	NONE	WQ3	NONE	NONE	NONE
167	City of Sonoma Water Conservation Programs - "Water Wise"	* Rebates for low-flow toilets, showerheads, washing machines * Replaced sprinkler heads with low flow versions * Landscape water audit recommendations implemented (7 sites audited) * \$72,000 annual budget, with \$10,000 from city of Sonoma directly and \$62,000 as reimbursements from SCWA * For FY 2003-2004: - \$3,450 for washing machine rebates - \$12,300 in rebates for residential ultra low-flow toilets - \$4,420 in rebates for commercial ultra low-flow toilets	SONCITY	SCWA	NONE	Ongoing	0	999999	72,000	62,000	0	Sonoma City Limits	NONE	WS4	NONE	NONE	NONE
168	Well Rehabilitation Program	* 7 wells within the city limits of Sonoma, as well as one permit from an additional well. Wells used for supplemental water use, for reliability * Project will modernize the pumps and upgrade any treatment	SONCITY	NONE	NONE	Ongoing	200301	200412	518,400	345,300	1	Sonoma City Limits	NONE	WS1	WS2	NONE	NONE
169	Garden Hose Nozzle Give Away	* Give away free garden hose shut off nozzles at city offices and public events * Reduce runoff containing fertilizer, pesticides and landscape chemicals	SONCITY	NONE	NONE	Ongoing	200301	999999	1	1	1	City of Sonoma service area	NONE	WS4	WQ1	NONE	NONE
183	Bahia Wetlands Restoration	* Marin County wetlands restoration project	CC	NONE	NONE	Ongoing	0	999999	1	1	1	0.5 miles west of Petaluma River, and to the south of Black John Slough		HE1	NONE	NONE	NONE
184	Bel Marin Keys	* Site acquired by CC for \$16 M, restoration to tidal marsh - seasonal wetlands could be enhanced - property is adjacent to Hamilton and could be included in Hamilton planning and restoration * Purchased in December 2000. \$9.0 million owed on State Revolving Fund loan	CC	MAS	NONE	Ongoing	0	999999	16,000,000	16,000,000	0	East of Novato, south of Bel Marin Keys Boulevard and Novato Creek	Native Fish species	HE1	NONE	NONE	NONE

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185	Hamilton Wetlands Restoration	* Tidal and seasonal wetlands restoration (688 acres in Phase 1, 988 total including the North Antenna Field). * Funding for local sponsor cost-share requirement for feasibility study - WRDA authorization - received \$1M CALFED grant, \$5M needed for Phase I restoration and site preparation.	CC	BCDC	NONE	Ongoing	0	999999	1	1,000,000	5,000,000	On the grounds of the former Hamilton Army Airfield	Native Bay species inc. fish, waterfowl, shorebirds	HE1	NONE	NONE	NONE
186	Napa River Flood Control Project	* Acquisition, restoration of floodplain to freshwater/brackish tidal wetlands * CC funded \$50K for enhancement plan in south Napa area - NCLT received \$1.42M in CALFED grants for acquisition - 1/2 cent sales tax passed - negotiations with landowners underway	CC	NCLT	CDFG	Ongoing	0	999999	1,470,000	1,470,000	0	Napa River downstream of the city of Napa	Delta smelt, longfin smelt, Sacramento splittail	HE1	FP5	NONE	NONE
187	Napa River Habitat Assessment	* Describe the current biotic and geomorphic state, recommendations for short-term implementation of habitat restoration	CC	RWQCB	UC	Ongoing	0	999999	1	1	1	Napa River watershed upstream of the city of Napa		HE2	NONE	NONE	NONE
188	Napa Salt Marsh Restoration	* Napa River Salt Marsh Restoration Feasibility Study involves the technical analysis of alternatives for the restoration of nearly 10,000 acres of wetlands and associated habitats within the former Cargill salt pond complex in the North Bay, which is now owned and managed by the CDFG. * Army Corps of Engineers, with the CC as the non-federal sponsor, completed the Draft Feasibility Study and Draft EIR/EIS spring of 2002. Pre-construction Engineering and Design will take place in 2004 and 2005 and implementation will begin in 2005. * The current estimated total is approximately \$90 million with 65% coming from the Corps (once authorized in WRDA). * The \$90 million cost estimate includes land value, final design, construction (salinity reduction, habitat restoration), monitoring and adaptive management, and construction management.	USACE	CC	CDFG	Ongoing	200201	999999	90,000,000	1	1	Old Cargill Salt ponds south of city of Napa between mouths of Sonoma Creek and Napa River	Large numbers of migratory waterfowl and shorebirds, anadromous fish, California clapper rail, salt marsh harvest mouse, black rail,	HE1	NONE	NONE	NONE
189	Petaluma water treatment wetlands	* <b>Need project description</b>	CC	NONE	NONE	Ongoing	0	999999	1	1	1	Unknown	NONE	WQ1	HE1	NONE	NONE
190	Simmons Slough parcels 1 & 2	* A land acquisition and wetlands restoration project in Marin County	CC	NONE	NONE	Ongoing	0	999999	1	1	1	Land parcels adjacent to Simmons slough, near Novato Creek	NONE	HE1	NONE	NONE	NONE



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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
191	Camp Two	* Restoration of floodplain habitat to seasonal marsh * WCB purchased the property. NAWCA and CC funding for restoration	CDFG	DU	WCB	Ongoing	0	999999	1	165,000	1	Area where Sonoma Creek empties into marshlands near Sears Point	NONE	HE1	FP5	NONE	NONE
192	Huichica Creek	* Seasonal wetland restoration * Partial funding from SPB NAWCA	DU	CDFG	NONE	Ongoing	0	999999	1	16,000	1	Huichica Creek is in Napa county	waterfowl, shorebirds	HE1	NONE	NONE	NONE
193	Napa River - Pond 8	* Tidal wetland enhancement * Installation of screen water intake	DU	CDFG	NONE	Ongoing	0	999999	1	1	1	In Napa Sonoma Marsh, adjacent to Napa River	waterfowl, shorebirds	HE1	NONE	NONE	NONE
194	Ringstrom Bay	* Seasonal wetland creation and enhancement; project will improve water control by improving a levee and removing and replacing water control structures. * NAWCA, CC, & DFG funded; survey and design completed, construction scheduled for summer 2004 completion	DU	CDFG	WCB	Ongoing	0	999999	1	532,300	1	South of Ramal Road in southern portion of Sonoma Creek watershed	NONE	HE1	NONE	NONE	NONE
195	Petaluma Marsh Expansion	* Acquisition and planning for the restoration to tidal marsh - in final stages * USFWS Rick Morat provided \$25K for feasibility study - negotiations in process - will be getting about \$350K from CALTRANS mitigation and second \$350K from CALFED	MAS	CC	NONE	Ongoing	0	999999	725,000	1	700,000	Adjacent to Pacific RR and San Antonio Creek in Marin county	shorebirds, raptors, waterfowl and salt marsh harvest	HE1	NONE	NONE	NONE
196	Rush Creek/Cemetery Marsh Enhancement	* Muted tidal enhancement on property owned by CDFG and MOSD * Received \$48K from NAWCA - construction completed in fall of 1999, development of water management plan is underway.	MAS	NONE	NONE	Ongoing	199909	999999	1	48,000	1	Along Rush Creek near the Marin-Sonoma county border	waterfowl, shorebirds	HE1	WQ7	NONE	NONE
197	Napa River Watershed Plan	* Watershed plan implementation, riparian restoration, erosion control and vineyard demonstration project * Received \$250K CALFED grant that was used for riparian restoration projects - need funding for monitoring and data management - studying impact of land use on watershed	NCRCD	NONE	NONE	Ongoing	0	999999	1	250,000	1	Napa River Watershed	Wildlife	HE3	HE2	NONE	NONE
198	Triangle G Ranch Acquisition	* Project includes 88 acres of vernal pools and 2 acres (3600 linear ft.) of riparian habitat along Rodgers Creek	SCAOSD	SCPARKS	CC	Ongoing	0	999999	1	1	1	Riparian area along Rodgers creek in Sonoma Creek watershed	NONE	HE1	HE3	NONE	NONE

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199	North Parcel - Leonard Ranch	* Enhance seasonal wetlands on 330 of the 532 acres of Leonard Ranch and retain 200 acres for agriculture to demonstrate the compatibility of seasonal wetland habitat with agricultural production. * Enhancement plan was completed, construction is scheduled for summer 2001 <i>* Completed 2002</i>	SLT	CC	NONE	Completed	0	999999	1	138,500	98,000	North Parcel and Leonard Ranch straddle Hwy 37 between Novato and Lakeville Hwy	alternative roosting and foraging habitat for wintering shorebirds	HE1	NONE	NONE	NONE
200	Carriger Creek	* Stream bank stabilization and riparian enhancement and creek crossing for fish passage * Project baseline data has been completed. * half of the riparian planting is complete and being monitored	SSCRCD	NONE	NONE	Ongoing	0	999999	1	1	1	Carriger Creek, west of city of Sonoma	Steelhead trout, neotropical migrant songbirds	HE3	NONE	NONE	NONE
201	Champlin Creek	* Riparian restoration and enhancement. * Half of the riparian planting is complete and being monitored.	SSCRCD	SCGGA	SAAW	Ongoing	0	999999	1	1	1	Southwest of the city of Sonoma	neotropical migrant songbirds	HE3	NONE	NONE	NONE
202	Petaluma River Watershed Plan	* Watershed enhancement plan * Petaluma Watershed Enhancement Plan released August 1999, currently implementing plan - have \$220K from CALFED for erosion control and creek restoration	SSCRCD	NONE	NONE	Ongoing	0	999999	1	220,000	1	Petaluma River Watershed	shorebirds, raptors, waterfowl and salt marsh harvest mouse -	WQ6	HE5	NONE	NONE
203	Schellville Restoration and Flood Control Project	* Acquire and restore tidal wetlands along lower Sonoma Creek	SSCRCD	NONE	NONE	Ongoing	0	999999	1	1	1	Lower Sonoma Creek near Schellville	steelhead, endangered species	HE1	NONE	NONE	NONE
204	Marin Baylands National Wildlife Refuge Proposal	* Establish Marin Baylands NWR where numerous restorable properties are proposed for development. * Once added to the Refuge, these properties can be restored to tidal and seasonal wetlands * NEPA documents: Land Protection Plan & Conceptual Management Plan	USFWS	MAS	NONE	Proposed	0	999999	1	1	1	Marin Bay	endangered bird, fish and plant species; shorebirds, waterfowl, diving birds, raptors, and neotropical	REC2	HE1	NONE	NONE
205	Skaggs Island	* Project involves transfer of Naval Reserve site from US Navy to USFWS for tidal wetland restoration and inclusion in San Pablo Bay NWR * Issues involve demolition and remediation of 60-acre campus structure and restoration to tidal marsh. * Transfer is anticipated in winter 2004; funds for building demolition and removal are available from Caltrans mitigation for Bay Bridge; planning for restoration has not begun.	USFWS	STB	NONE	Ongoing	0	999999	1	8,000,000	1	Skaggs island, along SPB, between the mouths of Sonoma Creek and the Napa River	NONE	REC2	REC5	NONE	NONE

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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
206	Tolay Creek Restoration Project	* Initiated in 1997 to increase tidal flow to 176 ha of the channelized lower creek and improve habitats for endemic tidal marshes. * COMPLETED 2002 - Addressing post-restoration levee erosion issues	USFWS	STB	CDFG	Completed	199701	200212	1	846,000	1	Tolay Creek on the western edge of the Sonoma Creek Watershed. Drains into San Pablo Bay.	Chinook salmon, Delta smelt, Sacramento splittail, longfin smelt and green sturgeon - numerous migratory birds	WQ7	HE1	HE4	NONE
207	San Anselmo Creek Park: Riprap Removal and Restoration	* Will enhance steelhead trout habitat in San Anselmo Creek, a tributary to Corte Madera Creek in Marin County. * Fishery and geomorphic studies have been conducted to provide a framework for a larger Corte Madera Creek Watershed Plan. * These studies present an action plan for the restoration of the watershed as long-term steelhead trout habitat. One of the recommendations included in the watershed plan is the removal of an 85-foot long riprap revetment along San Anselmo Creek. * This project aims to remove this section of rip rap, restore riparian vegetation, and remove invasive vegetation. * Monitoring of newly-planted vegetation will be carried out for three years to ensure a long-term survival rate. * In addition, macroinvertebrate sampling will be continued by MCSTOPPP to determine changes in instream water quality conditions	FCMCW	MCSTOPPP	NONE	Ongoing	200402	200612	66,720	31,270	35,450	A reach of the San Anselmo Creek with an 85-ft long rip rap revetment	Steelhead	HE1	HE2	WQ7	HE4

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208	Novato Creek Watershed Citizen's Water Quality Monitoring Program	*To develop and establish a comprehensive citizen water quality and biological monitoring program using a rigorous sampling design, which will assess conditions throughout the Novato Creek Watershed and provide quantitative data on these conditions. *The program will support assessment of creek and wetland restoration efforts in the watershed such as the Bel Marin Keys V Hamilton Wetlands, and Pacheco Creek Restoration Projects, and other erosion control projects planned by MCFCWCD. *MCSTOPPP has monitored BMI since 1999 at eight locations throughout the watershed. The data from this program will be used to expand and correlate quantitative data including turbidity, suspended sediment, BMI, temperature, DO, and base parameters to assess current status and impacts of ongoing and future restoration projects. *FNC and MCSTOPPP will collaborate to revisit and assess sites annually in Novato Creek which were previously assessed in 1998. *To measure success of the program a survey will be conducted to assess stewardship development.	FNC	MCSTOPPP	NONE	Ongoing	200402	200612	71,750	51,750	20,000	Novato Creek watershed	NONE	WQ3	HE2	REC6	REC4
209	Petaluma Watershed Restoration and Outreach; San Antonio Creek improvement	* Conduct activities identified in the <i>Petaluma Watershed Enhancement Plan</i> including hydrologic modeling and restoration of San Antonio Creek. * Expected near-term outcomes include enhanced in-stream and shaded riverine aquatic habitat from the revegetation of riparian corridors with native species, and a decrease in fine sediment deposition into the waterway as a result of the bank stabilization practices. * Photomonitoring will be conducted before and immediately after implementation, to be continued throughout the life of the grant. * Inspection of the area will also be conducted to document survival rate of vegetation	SSCRCD	PL	NONE	Ongoing	200402	200612	136,630	112,130	24,500	San Antonio Creek,	Salmon and steelhead	WQ7	FP4	HE1	HE3

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ID#	Title	Description	Agency 1	Agency 2	Agency 3	Status	Start Date	Finish Date	Project Cost	Funding Recvd	Funding Needed	Area	Species	OB 1	OB 2	OB 3	OB 4
210	Erosion Inventory and Sediment Control Recommendations for Jack London State Historic Park Watershed	<p>* To prevent erosion from dirt roads and trails located within Jack London State Park.</p> <p>* Reduces sediment delivery to Sonoma Creek and tributary streams to benefit salmonid populations that spawn in the watershed and help restore a natural sediment delivery regime to San Pablo Bay waters.</p> <p>* Need to identify and prioritize contributing segments of roads and road crossings.</p> <p>* Project will use techniques that have been proven successful to identify and prioritize erosion sites, recommend site-specific treatment prescriptions, and estimate tons of sediment per year that will be prevented from reaching streams by implementing the recommended treatments</p>	SEC	CDPR	NONE	Ongoing	200402	200611	112,237	83,020	29,217	Jack London State Historical Park	NONE	WQ6	NONE	NONE	NONE
211	Watershed Stewardship Education for Landowners	<p>* To provide assistance to rural residential landowners to reduce hillslope erosion and enhance riparian areas in Sonoma Valley.</p> <p>* To provide initial education and guidance to private landowners to allow them to implement appropriate BMPs and land management practices.</p> <p>* To prevent delivery of sediment, pesticides, and other pollutants to local streams draining into San Pablo Bay.</p> <p>* Funding will be used only where eroding slopes, channels, or stream banks appear to be impairing water or aquatic habitat quality.</p> <p>* Performance measures will include number of landowners involved, comments from landowners contacted, area and length of stream being assessed , and description of BMPs implemented by contacted landowners.</p>	SEC	PL	NONE	Ongoing	200402	200611	23,040	22,640	400	Lands adjacent to Sonoma Creek and tributaries in Sonoma Valley	NONE	WQ4	WQ6	HE3	REC4

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212	Channel Reach Rehabilitation to Support TMDL Implementation in Sonoma Creek	<p>* Response to TMDL-related studies suggesting that long-term channel instability, operating on a sub-watershed scale, may be a significant source of fishery and sediment problems in the Sonoma Creek watershed.</p> <p>* Need to address large reaches of the stream and coordinate with multiple landowners.</p> <p>* Lessons learned from this type of approach will benefit other coastal watersheds facing sediment TMDLs or addressing channel incision in privately owned, multi-use landscapes.</p> <p>* Will review existing information to choose an appropriate site, and build consensus for a rehabilitation plan with landowners, regulatory agencies, and local agencies.</p> <p>* Measures of success will include a quantitative estimate of sediment reduction potential, length of stream targeted for restoration, letters of support from at least three landowners and two agency staff, and at least one application to fund the next phase of implementation.</p>	SEC	PL	SSCRCD	Ongoing	200402	200611	51,470	40,970	10,500	Several reaches of Sonoma Creek	NONE	WQ6	HE3	REC4	REC5
213	Water Quality Monitoring: Suspended Sediment, Benthic Macroinvertebrates, and Summer Stream Flow	<p>* Quantitative information about water quality in Sonoma Valley waterways has been minimal.</p> <p>* TMDLs are due in 2006 for sediment, nutrients, and pathogens, so continuing and refining monitoring will be important for several reasons: to pinpoint sources of identified water quality problems, to provide baseline data for TMDL implementation actions, and to evaluate implementation project success.</p> <p>* Monitoring will include turbidity, suspended sediment, summer water flow, and benthic macroinvertebrates for two seasons, following existing approve QAPPs.</p> <p>* Outcomes will be described in reports that integrate the findings with past monitoring results, creating a long-term record of water quality conditions.</p>	SEC	CV	NONE	Ongoing	200402	200611	337,870	75,470	262,400	Sonoma Creek watershed	NONE	WS5	WQ3	HE2	NONE



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214	Upper Novato Creek Watershed Sediment Reduction	<p>* To reduce the amount of fine sediment entering Novato Creek by implementing erosion control projects at high priority sites in the upper Novato Creek Watershed</p> <p>* Implement restoration activities at these high priority sites including the repair of gullies, headcuts, and nick points.</p> <p>* The MCFCWDC will team up with FNC to assess the effectiveness of restoration projects.</p> <p>* Performance measures will include pre- and post-construction monitoring of stream cross-sections and gullies to measure rates of erosion and collect sediment (TSS) and turbidity samples.</p> <p>* A citizen water quality and biological monitoring program will be set up by FNC to support ongoing efforts to obtain a robust baseline assessment of habitat quality throughout the watershed</p>	MCFCWDC	FNC	NOCITY	Proposed	999999	999999	466,000	0	466,000	The upper Novato Creek Watershed, along Novato Creek	NONE	WQ6	HE1	NONE	NONE
215	Citizen Participation in Riparian Restoration in the Petaluma River Watershed	<p>* To engage citizens in the restoration of 10 acres of centrally located riparian lands along the Petaluma River just upstream of the ecologically sensitive fresh water/salt water interface.</p> <p>* Design and engineering work for the restoration will begin soon</p> <p>* Engaging citizens in the planned restoration projects will provide them with opportunities to learn about the inter-relationships of the uplands, valley, and the downstream marshlands.</p> <p>* Will serve as a model for citizen involvement in succession of future restorations planned for the riverfront area, ensuring they are completed with greater citizen involvement, support and resources.</p>	PWF	NONE	NONE	Proposed	999999	999999	133,360	0	133,360	10 acres of centrally located riparian lands along the Petaluma River near estuary	NONE	REC5	NONE	NONE	NONE
216	Incision Analysis	<p>* Will use topographic and geomorphic surveys to map the extent of incision on the Sonoma Valley floor and in the lower hills.</p> <p>* Historic records will be reviews to estimate rates and timing of incision.</p> <p>* The map and results of incision analysis will be a tool that can be used to analyze the extent and pattern of channel instability, to predict fine sediment inputs due to accelerated bank and bed erosion, and to prioritize TMDL implementation actions.</p>	SEC	NONE	NONE	Proposed	999999	999999	100,200	0	100,200	Sonoma Creek watershed, the valley floor and lower hills	NONE	WQ6	NONE	NONE	NONE



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217	Stakeholder Involvement in TMDLs and Flood Protection in the Sonoma Valley	<p>* To continue and expand a CALFED-funded community stakeholder process to address issues related to the development of a TMDL and restoration of floodplains in the Sonoma Creek watershed</p> <p>* Expansion of Conservancy membership</p> <p>* Public meetings with diverse interests</p> <p>* Preparation of newsletters and outreach materials</p> <p>* Project review by technical experts</p> <p>* Presentation of relevant GIS maps and technical data to community groups</p> <p>* Collaboration with other North Bay watershed groups to convey information and approach</p>	SEC	SCWC	SSCRCD	Proposed	999999	999999	113,500	0	113,500	Sonoma Creek watershed	NONE	REC4	NONE	NONE	NONE
218	Sonoma Creek & Tributaries Restoration Study	<p>* To provide conservation and restoration of natural habitats and improvements of Sonoma Creek flood capacity as specified in the San Pablo Bay Restoration Framework Program</p> <p>* Involves surveying and mapping, landowner outreach, and hydraulic analyses to determine feasible project alternatives to reduce flooding and enhance wildlife habitat through restoration of tidal and seasonal wetlands</p>	SSCRCD	CAFF	NONE	Proposed	999999	999999	660,000	0	660,000	Sonoma Creek watershed	NONE	FP1	REC4	FP4	NONE
219	Restoration of Tolay Lake and Tolay Creek	<p>* To develop a restoration plan for the Tolay Lake and Tolay Creek area of the Sonoma Creek watershed</p> <p>* The Agricultural and Open Space District is purchasing 3,000 acres in this watershed, and this task will provide the plan for habitat restoration identified in the Baylands report</p> <p>* Acquire and restore 1,700-acre ranch that encompasses the 200-acre shallow freshwater Tolay Lake that is a refuge for migrating waterfowl.</p> <p>* Sonoma Co Open Space District is willing to commit 50% of purchase price</p>	SCAOSD	NONE	NONE	Proposed	999999	999999	18,000,000	0	18,000,000	Watershed of Tolay Lake and Tolay Creek area	NONE	WQ7	NONE	NONE	NONE

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220	Improving Water Quality in the Petaluma River Watershed	<p>* To build community and organizational capacity to assess and implement solutions to water quality problems in the Petaluma River watershed</p> <p>* Public outreach to increase public awareness and understanding of the values of a healthy and functioning ecosystem</p> <p>* Educational activities with school science programs and civic organizations</p> <p>* Watershed-wide coordination to facilitate collaboration on water quality improvement and ecosystem restoration activities</p> <p>* Coordination and oversight of citizen monitoring, research and other watershed improvement activities in the Petaluma River watershed</p>	PWF	NONE	NONE	Proposed	999999	999999	292,500	0	292,500	Petaluma River Watershed	NONE	REC5	REC4	NONE	NONE
221	Farmscaping for Wildlife and Resource Conservation	<p>* To conduct outreach and education of farmers and ranchers in Marin and Sonoma counties near water quality impaired streams</p> <p>* Includes providing technical assistance and information to farmers and ranchers about best management practices required to protect water quality of streams and the bay</p> <p>* Workshops will be conducted to demonstrate vegetative and water conservation practices to minimize nutrient and pesticide runoff</p>	CAFF	NONE	NONE	Proposed	999999	999999	84,500	0	84,500	Farm lands of Sonoma and Marin Counties	NONE	REC5	REC4	NONE	NONE
222	*BASMAA OPC Regional Permit-Biological Assessment	<p>*Bay Area Flood Control Districts have hired an environmental consultant to prepare a biological assessment to address all routine flood control maintenance activities.</p> <p>* BA is currently under review by all the regulatory agencies.</p> <p>* Once BA is finalized in 12/04 the process will move to the CEQA phase. It may take 6-9 months to complete CEQA if an Initial Study with mitigated negative declaration.</p> <p>*Cost matching of \$20,000</p>	MCSTOPPP	MCFCWCD	BASMAA	Ongoing	0	999999	1	117,000	1	MCSTOPPP service area	NONE	FP1	HE2	NONE	NONE
223	Baccaglio Basin Channel Improvements	<p>*Baccaglio pond transfers water to Scottsdale Marsh through a large pipe. This project will replace that pipe with an open channel as much as practicable. This will allow for habitat and improve the flow capacity between the Baccaglio Basin and Scottsdale Marsh</p> <p>*Project is currently in design and construction phases</p> <p>*Funding from F.C. Zone 1</p>	MCSTOPPP	FCZone1	NONE	Ongoing	200601	200812	360,000	360,000	0	Area between Baccaglio pond and Scottsdale Marsh in Novato	NONE	HE5	NONE	NONE	NONE



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224	Dredge Novato Creek - Zone 1	*The Novato Flood Control Project, constructed in phase since 1985, requires dredging every 3 to 5 years to maintain the design level of flood protection *Project is in design and construction phase *Funding from F.C. Zone 1	MCSTOPPP	FCZone1	NONE	Ongoing	200401	200412	785,000	785,000	0	Flood plain of Novato Creek	NONE	FP1	FP4	NONE	NONE
225	Ross Creek Steelhead Habitat Preservation	* Eventually will need to ensure that steelhead population is preserved by carefully monitoring or increasing flows from Phoenix Lake to Ross Creek	MMWD	NONE	NONE	Idea	999999	999999	1	1	1	Ross Creek Watershed	Steelhead	HE2	HE5	WS5	NONE
226	Various fee title acquisitions or conservation easements adjacent to San Pablo Bay	* No project description	SONOMACO	NONE	NONE	Ongoing	0	999999	1	1	1	Land adjacent to San Pablo Bay in Sonoma County	NONE	HE5	NONE	NONE	NONE
227	Large Landscape Water Conservation	* Reduce non-essential water use on large landscape irrigation sites * Part of CUWCC's list of conservation BMPs * Includes landscape water audits and water budgets	SONCITY	SCWA	NONE	Ongoing	200307	999999	1	1	1	City of Sonoma service area	NONE	WS4	NONE	NONE	NONE
228	Dog Waste Collection Stations	* Installation of pet waste bag dispensers along bike paths, in cemeteries, and in dog park * Goal to reduce nutrients and pathogens flowing by stormwater into streams	SONCITY	NONE	NONE	Ongoing	200207	999999	1	1	1	City of Sonoma service area	NONE	WQ1	WQ2	NONE	NONE
229	Curbside Oil Recycling	* Oil and oil filters picked up at customer request * Reduce oil contamination of water supplies and stormwater flows	SONCITY	NONE	NONE	Ongoing	200207	999999	1	1	1	City of Sonoma service area	NONE	WQ1	WQ5	NONE	NONE
230	Valley of the Moon Water System Improvement Project	* Need project description	VOMWD	NONE	NONE	Ongoing	0	999999	1	1	1	Valley of the Moon Water District service area	NONE	NONE	NONE	NONE	NONE
231	Study to determine the location of commercial, agricultural, and industrial septic system in Sonoma County.	* Developing educational handout materials for these systems.	SONOMACO	NONE	NONE	Ongoing	0	999999	1	1	1	Sonoma County	NONE	WQ1	WQ2	NONE	NONE
232	Bay Trail Expansion	* Need project description	SONOMACO	NONE	NONE	Ongoing	0	999999	1	1	1	Bay Trail in Sonoma County, near the shore of the bay	NONE	REC1	NONE	NONE	NONE
233	Collection System Upgrades	* Some issues regarding overflows * Proposed projects have been assessed and prioritized	SVCS	NONE	NONE	Proposed	999999	999999	2,000,000	1	2,000,000	SVCS Service Area	NONE	WQ1	NONE	NONE	NONE

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234	Conservation for Contractors	* All contractors are required by the CUWCC MOU on Water Conservation to establish conservation programs as part of their best management practices	SVCS	NONE	NONE	Ongoing	0	999999	1	1	1	SVCS Service Area	NONE	REC4	WS4	WQ4	NONE
235	Cyanide Discharges to the Bay Study/Plan	* Basin Plan to be developed for cyanide * Involves only shallow water dischargers	SVCS	RB	NONE	Planned	999999	999999	1	1	1	Sonoma Basin?	NONE	WQ1	NONE	NONE	NONE
236	SVCS Treatment Plant Advanced Wastewater Treatment Upgrade	*The proposed project involves the upgrade of the SVTP to a tertiary level of treatment. The primary purpose of the project is to maximize the recycled water opportunities for the SVTP. *The project includes the installation of filtration facilities including a pulse bed filter, filter control building, filter feed pumping station, chemical storage facility, backwash pumping station, and other appurtenances. *Construction to begin 2005/2006	SVCS	SCWA	NONE	Ongoing	0	200612	1	1	1	SVCS Service Area	NONE	WS3	WQ1	NONE	NONE
237	Recycled water offset of potable water	* Provide funding for further recycled water facilities and transmission of 10,000 AFY of potable offset * 15 Year program, \$4 million available for years 4-15	SCWA	NONE	NONE	Proposed	0	999999	1	1	1	SCWA service area	NONE	WS1	WS3	NONE	NONE
238	Novato Creek Aquatic Macroinvertebrate Monitoring Program	* During the Fall of 1999 and Spring of 2000, MCSTOPPP conducted macroinvertebrate studies in four watersheds (Arroyo Corte Madera, Corte Madera, Miller, and Novato creeks). * In general, all watersheds had poorer habitat conditions in reaches located within urban centers, and better conditions in the upper watershed reaches. * Six monitoring stations were located along Novato Creek and two along Warner Creek. According to the report, results were somewhat ambiguous and rated stations as poor or fair stream habitats. * Ambiguity may have been caused by intermittent flow conditions. There was little variability in stream habitat conditions between lower and upper Novato Creek reaches.	MCSTOPPP	NONE	NONE	Completed	199909	200006	1	1	1	Arroyo Corte Madera, Corte Madera, Miller, and Novato Creek watersheds	Macroinvertebrates,	HE2	NONE	NONE	NONE
239	Atherton Avenue	* Acquisition completed and planning for enhancement as seasonal wetlands underway * negotiations with one landowner underway, escrow closed in mid November 2000 on other site	MAS	NONE	NONE	Ongoing	0	999999	1	1	1	Northern Marin County, near	Shorebirds, waterfowl	HE1	NONE	NONE	NONE

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240	Sonoma Creek & Tributaries	* Nathanson Creek Preserve & Trailway, an urban riparian greenway in the City of Sonoma: restoration, education programs * MOU among agencies, land acquired, paths funded. Need restoration funds * Repeat of a City of Sonoma Project	SEC	SONCITY	SVUSD	Ongoing	0	999999	1	1	1	Nathanson Creek within city limits of Sonoma		REC4	REC1	NONE	NONE
241	Corte Madera Creek, Marin County, California, Modified Unit 4 Sedimentation Study	* The numerical model study was performed to evaluate sedimentation processes for several alternatives for the Unit 4 reach of Corte Madera Creek. * The model was used to determine the effectiveness of each alternative in reducing deposition in the downstream concrete channel, especially at the peak of the 5,400 cfs design flood. * The effect of accumulated sediment on channel roughness was evaluated. Alternative maintenance dredging plans were also evaluated.	USACE	FCZone9	NONE	Completed	0	200008	1	1	0	Within Corte Madera Creek Watershed, from the confluence of Ross Creek to Tamalpais Creek	NONE	FP1	NONE	NONE	NONE
242	Fishery Resource Conditions of the Corte Madera Creek Watershed, Marin County	The goals of this study are to: * Provide life stage and habitat information on the rainbow/steelhead trout population * Provide a historical perspective on the fisheries resource conditions * Assess water temperature conditions from April to October * Assess physical habitat conditions during low flow season * Assess fisheries resources population conditions during low flow season * Identify limiting factors for rainbow/steelhead trout * Design a Steelhead Restoration Plan which will improve rainbow/steelhead populations	FCCMW	AARA	NONE	Completed	0	200011	1	1	0	Corte Madera Creek Watershed	Steelhead	HE1	HE2	NONE	NONE
243	Geomorphic Assessment of the Corte Madera Creek Watershed	* Study of the sediment load of Corte Madera Creek. * Investigated whether channel erosion is a significant contributor to sediment yield, in order to focus future restoration efforts	FCCMW	MARINCO	NONE	Completed	0	200012	1	1	0	Corte Madera Creek Watershed	NONE	FP4	NONE	NONE	NONE
244	California Red-Legged Frog Site Assessment, St. Vincent's School Property, San Rafael, CA	* To examine potential habitat locations for the California red-legged frog on the property of St. Vincent's School, which lies in the presumed historic range of the species	SINC	LSA	NONE	Completed	0	200109	1	1	0	Along Miller Creek, directly east of Hwy 101 and south of Hamilton Field	California Red-legged Frog	HE2	HE1	NONE	NONE

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245	Spawning Gravel Suitability Assessment, Sonoma Creek Watershed	<p>* Spawning gravels in the Sonoma Creek watershed were evaluated to determine their suitability to support the successful reproduction of steelhead trout. The extent to which framework gravel sizes and fine sediment content may be adversely affecting spawning habitat and thereby limiting steelhead (and possibly Chinook salmon) populations in the Sonoma Creek watershed were investigated.</p> <p>* Four locations on Sonoma Creek and four tributaries; Graham, Calabazas, Carriger, and Bear Creeks were evaluated.</p> <p>* Results strongly indicate that the quality of spawning gravels are not a factor limiting the steelhead fishery.</p> <p>* all 26 gravel samples evaluated met the criteria for fine sediment content.</p> <p>* This study provides a basis for future comparative studies and monitoring programs that may be important as agricultural, residential development, and other land-uses expand in the watershed.</p>	SEC	NONE	NONE	Completed	199805	200101	1	1	0	8 sites in the Sonoma Creek watershed (in Sonoma Creek and it's tributaries)	Steelhead	HE2	NONE	NONE	NONE
246	Marin and Sonoma Counties Agricultural Runoff Influence Investigation	<p>* Water quality monitoring of sites in the Petaluma Creek watershed, as well as Americano Creek, Stemple Creek, and Lagunitas Creek, and along the eastern and southern shores of Tomales Bay.</p> <p>* The objective of this program is to determine agricultural impacts on water quality.</p> <p>* Water quality parameters are generally measured bi-weekly during the rainy season and include dissolved oxygen, conductivity, turbidity, pH, temperature, ammonia, and biological oxygen demand (BOD).</p> <p>* Sampling began at some of these sites in 1991 and is still active.</p>	CDFG	NONE	NONE	Ongoing	199101	999999	1	1	1	Petaluma Creek Watershed, Tomales Bay	NONE	WQ1	WQ3	HE2	NONE
247	Petaluma Tree Planters Water Quality Monitoring	<p>* Water quality monitoring in and around Petaluma for diazinon and chlorphyifos on 4 separate occasions</p> <p>* First event was during dry weather base flow conditions, the second was during "first flush", which often washes accumulated pollution into storm drains and water bodies, and the last two were after subsequent storm events.</p> <p>* Sampling stations were chosen according to varying land uses.</p>	PTP	NONE	NONE	Completed	0	199906	1	1	0	In and around the City of Petaluma	NONE	WQ1	WQ3	HE2	NONE

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248	San Francisco Estuary Institute's Regional Monitoring Program for Trace Substances	* Water quality monitoring at the mouth of the Petaluma River, along with other Bay sites. * Data can be accessed at <a href="http://www.sfei.org/rmp/data.htm">http://www.sfei.org/rmp/data.htm</a>	SFEI	NONE	NONE	Ongoing	0	999999	1	1	1	At the mouth of the Petaluma River	NONE	WQ1	NONE	NONE	NONE
249	Sonoma Creek Habitat Survey	* Southern Sonoma County Resource Conservation District coordinates a habitat survey program with several private landowners * Sampling protocols followed the California Salmonid Restoration Manual * Surveys were conducted in several streams within the Sonoma Creek Watershed in 1996 and more were surveyed in 2001 and 2002.	SSCRCD	PL	NONE	Completed	199601	200212	1	1	0	Sonoma Creek watershed, including Sonoma Creek, Asbury Creek, Bear Creek, Calabazas Creek, Graham Creek, and Stuart Creek	Salmonids	HE2	NONE	NONE	NONE
250	Study of Arroyo Corte Madera del Presidio Watershed	* To evaluate the feasibility of stream rehabilitation by surveying of habitat conditions, sample fish communities, and describe potential restoration projects. * Work done by A.A. Rich and Associates for Mill Valley Stream Keepers * Habitat surveys limited to Old Mill Creek, which was deemed the most "natural" of the creeks in this watershed * Habitat survey data indicated the habitat for steelhead is limited by a lack of water, and cement channels exacerbated the problems.	AARA	MVSK	NONE	Completed	199501	199512	1	1	0	Arroyo Corte Madera del Presidio Watershed, in particular Old Mill Creek	Steelhead	HE2	NONE	NONE	NONE
251	Fishery Resource Conditions of Novato Creek	* Involved electrofishing and summarizing information on trout populations in Novato Creek * Prepared as part of a Environmental Impact Report concerning the Novato Creek Flood Control Project	AARA	MPW	NONE	Completed	199701	199712	1	1	0	Novato Creek	Steelhead	HE2	NONE	NONE	NONE
252	Fishery Resource Conditions of Adobe Creek	* Involved electrofishing and summarizing information on trout populations in Adobe Creek * Prepared as part of a Environmental Impact Report concerning the Lafferty Ranch, under contract with the City of Petaluma	AARA	PETCITY	NONE	Completed	199901	199912	1	1	0	Adobe Creek	Steelhead	HE2	NONE	NONE	NONE



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253	Corte Madera Watershed Resource Evaluation and Information Report	* Prepared by the staff of the San Francisco Bay Regional Water Quality Control Board * Involved fish and macroinvertebrate sampling and some water quality sampling * Includes some quantitative summaries of canopy, streambank, and riparian condition as well as comprehensive description of what resources have been completed for Corte Madera Creek	SFBRWQCB	NONE	NONE	Completed	199306	199402	1	1	0	Corte Madera Creek Watershed	Wildlife	HE2	NONE	NONE	NONE
254	Water Temperature Monitoring, Sonoma Creek Watershed	* To determine if summer temperatures are limiting the once-productive steelhead fishery which existed in the watershed. * Results indicate summer temperatures are not limiting the fishery	SEC	NONE	NONE	Completed	199601	199712	1	1	0	Sonoma Creek, Calabazas Creek, Graham Creek, Ashbury Creek	Steelhead	HE1	HE2	NONE	NONE
255	Restoration Research and Monitoring in Bayland Wetlands of the San Francisco Bay Estuary: Tolay Creek Project	* Sampling protocol developed to monitor the creek before and after restoration activities occur * Monitoring will include pH, water level and sediment accumulation. * Results showed that invasive plant species were reduced and abundance of shorebirds increased. * Future research will include water quality modeling, channel morphology, slough length, and levee erosion	USGS	ERS	USFWS	Ongoing	199901	999999	1	1	0	Tolay Creek on the western edge of the Sonoma Creek Watershed. Drains into San Pablo Bay.	Wildlife	HE2	HE4	NONE	NONE
256	Sonoma Creek Watershed Restoration Study	* <b>Need project description</b>	USACE	SEC	SFEI	Ongoing	0	999999	1	1	1	Sonoma Creek Watershed	Wildlife	HE1	WQ7	NONE	NONE
257	Sonoma Creek Monitoring	* EPA's STORET database has data for 62 sampling events from 11 sampling sites taken over a period from 1973 to 1988. Samples analyzed for: T, DO, BOD, pH, Turbidity, TSS, Conductivity, TDS, Total Fecal Coliform, Nitrate, Nitrite, Ammonia, TKN, Total Phosphorous, Phosphate, etc.	USEPA	NONE	NONE	Completed	197301	198812	1	1	1	Sonoma Creek	NONE	WQ3	NONE	NONE	NONE
258	Corte Madera Creek Flood Control Project	* Created natural flood control channel and a sedimentation basin at the town of Ross	USACE	MARINCO	NONE	Completed	199901	200406	100,000	100,000	0	9 miles north of Golden Gate bridge, at the Town of Ross	NONE	FP4	FP1	NONE	NONE

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259	Petaluma Watershed Enhancement Plan	<p>Recommendations include:</p> <ul style="list-style-type: none"> <li>* Conducting detailed stream channel stability studies.</li> <li>Fencing and revegetation of riparian corridors</li> <li>Implementing BMPs on vineyards and ranchettes located adjacent to streams</li> <li>Stabilizing streambanks with biotechnical stabilization methods</li> <li>* Expansion of the Watershed Enhancement Plan</li> <li>* Implementation of BMP demonstration projects</li> <li>* Development of conservation ranch plans and nutrient budgets for confined animal facilities</li> <li>* WQ and biological monitoring</li> <li>* Watershed assessment activities</li> </ul>	SSCRCD	NONE	NONE	Ongoing	0	9999999	1	1	1	Petaluma Creek Watershed	NONE	HE1	WQ1	WQ6	NONE
260	Petaluma River Flood Control Project	<ul style="list-style-type: none"> <li>* Located within the Payran residential neighborhood</li> <li>* Project goes from the confluence of Lynch Creek and the Petaluma River to Lakeville Avenue</li> <li>* Project will widen the river to accommodate 100-year flood event (e.g. to year 2005 under GP build out) and 40-year flood event (e.g. to year 2040 build out)</li> <li>* U-shaped channel completed in Dec 1998</li> <li>* Trapezoidal Channel</li> <li>* Vehicular bridges two bridges replaced in May 2001</li> <li>* Railroad bridges - Mainland Railroad Bridge replace in May 2001, Mainland Railroad approach not yet completed (FY02)</li> </ul>	USACE	PETCITY	NONE	Ongoing	199801	999999	1	1	1	In the city of Petaluma, within the Payran residential neighborhood	NONE	FP4	HE4	REC3	NONE
261	Novato Creek Flood Control Project	<ul style="list-style-type: none"> <li>* Four phase project constructed from 1987 to 1991</li> <li>* Channel modifications include excavation, realignment, widening, bank stabilization, floodwall construction, and levees on Warner Creek</li> <li>* Flood control channel can convey up to 50-year storm event flows</li> <li>* Maintenance dredging carried out three times since construction and approximately every four years</li> </ul>	USACE	NONE	NONE	Completed	198701	199112	1	1	0	Novato Creek and tributaries (Warner Creek)	NONE	FP4	NONE	NONE	NONE
262	Geomorphic Assessment of the Corte Madera Creek Watershed, Marin County, California	<ul style="list-style-type: none"> <li>* Friends of Corte Madera Creek conducted a Geomorphic Study with Cal-EPA funding</li> <li>* Purpose was to identify erosion sources in watershed to address excessive sedimentation in flood control channel</li> </ul>	FCMCW	MCFCWCD	USACE	Completed	199901	200012	1	1	0	Corte Madera Creek watershed	NONE	FP1	HE2	NONE	NONE



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263	Tubbs Island Levee Setback	* Restore site to tidal marsh by constructing new inboard levee and breaching outboard levee. * Completed - 2002- construction in two phases phase I levee construction fall/2000, phase II levee breaching summer/fall 2001	DU	SPBNWR	NONE	Completed	0	200212	1	760,000	0	San Pablo Bay NWR	clapper rail, salt marsh harvest mouse, critical roosting and	HE1	NONE	NONE	NONE
264	San Antonio Creek - George Googins Project	* Enhancement of 50 acres of stream bank along San Antonio Creek. The project will apply various techniques including revegetation to control sediment.	SSCRCD	NONE	NONE	Ongoing	0	999999	1	1	1,000,000	Along San Antonio Creek	Salmonids	HE3	WQ6	NONE	NONE
265	Corte Madera Creek - Improve fish passage at upstream end of concrete channel	* Replace fish ladder at upstream end of concrete channel and design in-channel features to improve fish passage (by reducing velocity barrier) in upstream end of channel * Marin County Flood Control District considering design of fish ladder; in-channel features would be identified as part of the project	FCMCW	MCFCWCD	NONE	Planned	200401	999999	1	1	200,000	Corte Madera Creek at upstream end of concrete channel	Fish	HE5	NONE	NONE	NONE
266	Corte Madera Creek - College of Marin Ecology Study Area Habitat Enhancement	* Habitat enhancement of 3-acre upland area surrounded by tidal channels * Public outreach started and minor eucalyptus removal done. Plant surveys conducted. Small mammal trapping and surveys to identify important resources used by birds are underway. Planning started for further eucalyptus and acacia removal, planting of native tress and shrubs. * \$6000 from SFEP for Phase 1 (2003); \$3000 from Friends for bird surveys (2004); \$15,000 for Phase 3 (2004-2005) from MMWD to continue removal of exotics, planting natives, and signage	FCMCW	CM	NONE	Ongoing	200301	999999	1	24,000	1	Along Corte Madera Creek in the College of Marin Ecology Study Area	Birds	HE1	HE2	HE4	NONE
267	Bahia	* Restore the central and western lowlands to tidal marsh * Calfed committed 1.5 million, JV \$5000 * Acquisition of land is complete, restoration activities are ready to go	MAS	DFG	NONE	Ongoing	0	999999	1	1,505,000	1,000,000	0.5 miles west of Petaluma River, and to the south of Black John Slough	NONE	HE1	NONE	NONE	NONE
268	Canalways (San Rafael)	* At the present time there is some interest in restoring to tidal marsh but that is not at all certain due to expense and other issues. * The most probably project would be enhancement as seasonal wetland.	MAS	NONE	NONE	Proposed	0	999999	1	1	1	Canalways in San Rafael	shorebirds, raptors, waterfowl and Salt Marsh Harvest Mouse	HE1	NONE	NONE	NONE

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269	Corte Madera Creek Projects	<p>* Watershed plan, with work on erosion/sedimentation and fisheries (specifically factors that limit steelhead population) almost complete; funding being sought for wildlife, vegetation, groundwater, land use components.</p> <p>* Creekwatchers, volunteers who observe the creek regularly and gather data for special projects.</p> <p>* Various revegetation projects, some with schools.</p> <p>* Water quality monitoring with local schools.</p> <p>Funding: \$50K from US Environmental Protection Agency/Regional Water Quality Control Board for erosion sedimentation study; \$50K from CALFED for fisheries study; \$25K from Marin Community Foundation for public outreach; \$3500 from Marin County for Creekwatchers; various smaller grants for restoration/revegetation projects. Funding needed to complete watershed plan and implement its provisions - we will try CDFG, DWR, CALFED, private foundations, other sources.</p>	FCCMW	MCFCWCD	MMWD	Ongoing	0	999999	1	128,500	1	Corte Madera Creek Watershed	Steelhead	WQ6	HE1	REC4	REC5
270	Corte Madera Creek - Removal of Raven Dam	<p>* Remove a dam that completely blocks access to 0.5 mile of spawning gravels.</p> <p>* Steelhead are sighted in the pool below the dam, in spite of downstream barriers.</p> <p>* However, funders prefer to start low in the watershed and work up when treating barriers.</p> <p>* Scope and budget prepared for removal of Raven Dam; downstream barriers need to be identified and treated before this project is undertaken</p>	FCCMW	MCDPW	NONE	Ongoing	0	999999	1	0	350,000	Raven Dam along Corte Madera Creek	Steelhead	HE5	HE1	NONE	NONE
271	Corte Madera Creek Watershed - Assessment of Barriers	<p>* Complete assessment of barriers.</p> <p>* Most of road crossings under Marin County jurisdiction were assessed by Ross Taylor &amp; Associates.</p> <p>* Other areas should be completed so that a watershed wide prioritization can be done.</p> <p>* Barriers under County jurisdiction partially assessed by Ross Taylor (Coastal Conservancy Survey); assessment needs to be completed</p>	FCCMW	MCSTOPPP	NONE	Ongoing	0	999999	1	60,000	100,000	Barriers along Corte Madera Creek	NONE	HE5	NONE	NONE	NONE
272	Gallinas Creek	* Enhancement complete	MAS	CMSA	USFWS	Completed	0	999999	1	1	0	Gallinas Creek	NONE	HE1	WQ7	NONE	NONE



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273	Madera Bay Park	* acquisition and restoration to tidal and enhancement as adjacent upland/seasonal wetland; add to Corte Madera Ecological Reserve * appraisal obtained. Owner has contacted us to talk about acquisition.	MAS	NONE	NONE	Ongoing	0	999999	1	1	1	Near Corte Madera Ecological Reserve	CA Clapper Rail, shorebirds, burrowing owl, passerines	HE1	REC2	NONE	NONE
274	Scottsdale Marsh	* restoration of 55 acre marsh consisting of 11 acre pond, emergent, seasonal, riparian, open water and upland transitional habitat. * Marsh project funded by HCF, EEMP, USFWS, City. \$450K still needed for pond improvements. ACL Fines, US Environmental Protection Agency, USFWS SF Bay Program, EEMP	NOCITY	NONE	NONE	Ongoing	0	999999	1	1	450,000	Near the city of Novato?	waterfowl, shorebirds	HE1	NONE	NONE	NONE
275	Triangle Marsh - Corte Madera	* acquisition completed, planning for restoration back to tidal marsh about to begin * acquired in 2000 by Marin Audubon Society; \$225K received from CC; \$150K through the Marin OSD; \$50K small grant through NAWCA; \$50K from USFWS SF Bay Region	MAS	CC	Caltrans	Ongoing	0	999999	1	475,000	1	Tidal Marsh near San Quentin?	Ca clapper rail, shorebirds, raptors, waterfowl and salt marsh harvest mouse - Delta smelt,	HE1	NONE	NONE	NONE
276	Stanly Ranch	* The property proposed for preacquisition encompasses historic wetlands along the Napa River south of the "southern crossing" bridge adjacent to Hwy 29. * The property functions as seasonal and permanent wetland and grazed pasture today, but represents a tremendous potential for restoration into native marshland habitat under the direction of Fish and Game. * The Land Trust negotiated a purchase agreement to acquire the property in 2001 and extended that purchase agreement to June 30, 2003. This purchase agreement includes the right to purchase all necessary road easements to access the property as well as ownership. * The project has been with the Wildlife Conservation Board since September 2002 and General Services has been undertaking appraisal review this fall. * A required Environmental Site Assessment was completed on November 12, 2002 (CERCLA Phase 1). * All necessary land survey and title work has been completed.	DFG	NCLT	WCB	Ongoing	200101	999999	1	100,000	1,919,500	Along the Napa River south of Hwy 29 bridge	NONE	HE1	NONE	NONE	NONE



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277	Bisso Ranch	* Surrounded by significant public land, priority of Fish & Game as acquisition * Notorious as a dumping site for construction debris and other solid waste * Currently being clean-up by private owner, clean up in final stages * Restoration will occur if acquisition is successful	DFG	TPL	NONE	Ongoing	0	999999	1	1	1	Due east of Sears Point with Sonoma Creek as eastern boundary	NONE	WQ1	HE1	NONE	NONE
278	Dickson Ranch	* Located between Sonoma Baylands wetlands and Tolay Creek wetlands, site is ideally located to establish contiguous wetlands from Petaluma River most of the way to Sonoma Creek. * Property is pursued by private interests and jeopardized by development. * This is a key parcel to achieving JV goals in the North Bay, and if lost will fragment habitat. * Adjacent to San Pablo Bay NWR and DFG preserves. * Portion of property has been used as a game bird club. * Contract has been signed, acquisition complete	SLT	DFG	SCAOSD	Ongoing	0	999999	1	1	5,500,000	Between Sonoma Baylands and Tolay Creek Wetlands	NONE	HE1	NONE	NONE	NONE
279	North Point Properties	* These properties were under option to the tribe for the proposed casino. They are in conversations with the Sonoma Land Trust. Threat is high since the casino may come back to this site if current site does not work out.	SLT	NONE	NONE	Ongoing	0	999999	1	1	15,500,000	Unknown	NONE	HE1	NONE	NONE	NONE
280	Petaluma River Marsh (Carl's Marsh)	* Levee breach - tidal marsh restoration	SLT	DFG	NONE	Completed	0	999999	1	1	1	Carl's Marsh	shorebirds, raptors, waterfowl and salt marsh harvest mouse -	HE1	NONE	NONE	NONE
281	Sonoma Creek & Tributaries aquatic habitat restoration	* installation of boulders and logs at 11 sites to improve steelhead habitat * completed 2003, now monitoring success	SEC	NONE	NONE	Completed	0	200312	1	90,000	1	Sonoma Creek Watershed	NONE	HE1	WQ7	NONE	NONE
282	Sonoma Creek & tributaries fish passage repair	* Improve or replace culverts that are blocking fish and wildlife movement, remove barriers to fish passage. * 1 repair complete, several in design stages. * Watershed wide assessment to prioritize additional sites is underway.	SEC	SCDTPW	NONE	Ongoing	0	999999	1	1	1	Sonoma Creek Watershed	steelhead, possibly salmon	HE5	NONE	NONE	NONE

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283	Sonoma Creek Riparian Revegetation	* Remove riparian weeds (Arundo, Himalayan blackberry, Vinca, etc) and revegetate with native plants in a 1/2 mile reach of Sonoma Creek including a county park. Includes an unusually wide floodplain valuable to salmonids. Many volunteers involved. * Start-up funded obtained for weed removal and plant propagation. Letters of support & access from residents and county parks. * \$8000 from mitigation fund, \$1000 in-kind from county parks. Organizational cost share from Team Arundo del Norte (CALFED grant)	SEC	SCPARKS	NONE	Ongoing	0	999999	1	9,000	18,000	0.5 miles reach of Sonoma Creek including a county park	NONE	HE4	REC4	FP2	HE1
284	Sonoma Creek Total Maximum Daily Loads Water Quality Improvement	* Facilitating steering committee (RCD lead), limiting factors analysis for steelhead in Sonoma Creek (SEC lead), implementation measures for achieving water quality objectives (all)	SSCRCD	SEC	SONCITY	Ongoing	0	999999	1	1	1	Sonoma Creek watershed	steelhead, freshwater shrimp	HE1	WQ1	WQ6	NONE
285	Sonoma Creek Watershed Restoration Priorities Map	* Use GIS analysis of riparian, geologic/geomorphic, aquatic, and historic conditions to map highest priority locations for restoration efforts in Sonoma Creek watershed. * Hold workshop (s) to share findings and approaches. * Many types of watershed data recently were integrated as part of limiting factors analysis for steelhead. Well-respected non-profit GIS shop in place. * Funding sources: CALFED, DFG, SWRCB, EPA have funded collection of critical data. Switzer Foundation funded watershed scientist. Total approx \$400K.	SEC	SWITZ	NONE	Ongoing	0	999999	1	400,000	20,000	Sonoma Creek Watershed	NONE	HE2	REC6	NONE	NONE
286	Sonoma Native Plant Nursery	* Propagate locally native plants for restoration and habitat landscaping in the north bay. * Sell material on sliding scale. Involve schools in plant material collection, propagation and planting. * Collaborate with turf reduction programs by local water purveyors. * Pilot stage is complete, with shade structure, irrigation, and qualified staff. Site is Community Garden operated long term by SEC, on City of Sonoma land. * Need 50,000 per year	SEC	NONE	NONE	Ongoing	0	999999	1	1	50,000	Community Garden, on city of Sonoma land	Native plant species	HE4	NONE	NONE	NONE

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287	Sonoma Valley Habitat Stewards/Landowners Assistance Project	<p>* Sonoma Creek and tributaries support steelhead, chinook, and freshwater shrimp (endangered), and are mostly privately owned.</p> <p>* Ignorance of some landowners is causing degradation of water quality and the fishery.</p> <p>* Project provides information, advice, technical designs, and implementation projects on properties that have a disproportionate effect on aquatic species and water quality.</p> <p>* Several projects completed (aquatic habitat enhancement, erosion control), but the backlog of needed projects is large (invasives removal, BMP education, LWD placement, etc).</p>	SEC	NONE	NONE	Ongoing	0	999999	1	120,000	320,000	Area surrounding Sonoma Creek and tributaries	Fish, wildlife	WQ1	REC4	WQ6	HE1
288	Sonoma Valley Historical Ecology Project	<p>* Historical ecology of Sonoma Valley: understand antecedents to contemporary conditions, guide restoration and management actions, and educate community about watershed's history.</p> <p>* Current focus: changes to stream network, groundwater table, and runoff.</p> <p>* Massive electronic archive of historic maps, documents, pictures.</p> <p>* Completed oral history project of elders focused on land use and creek history.</p> <p>Historical ecology integrated with Limiting Factors Analysis for steelhead.</p>	SEC	SFEI	NONE	Ongoing	0	999999	1	1	25,000	Sonoma Creek Watershed	steelhead, possibly salmon, freshwater shrimp, aquatic organisms, San Pablo Bay anadromous spp	REC5	HE2	NONE	NONE
289	Stream Stewards (citizen monitoring in Sonoma Creek watershed)	<p>* Stream Stewards program: volunteers monitor stream flow, rainfall, water quality, macroinvertebrates, and suspended sediment, and remove invasive weeds and revegetated creeks.</p> <p>* Scientists and technical staff supervise.</p> <p>* Program began in 1998, now has 25-30 Stream Stewards. Protocols and QAPPs are approved.</p> <p>* Due to funding gaps not all activities occur every year.</p> <p>* Approx \$50K/yr for sampling and field activities. \$15K/yr for integrated data analysis</p>	SEC	NONE	NONE	Ongoing	0	999999	1	1	65,000	Sonoma Creek watershed	steelhead, possibly salmon	WS5	HE2	HE4	WQ6



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290	Supporting Sustainable Water Use in Sonoma Valley	* Purpose: work toward a sustainable use of water that meets current and future needs of people and nature. Issues: groundwater recharge, instream flow needs, agricultural and residential needs, impervious surfaces, water importation and export, demand reduction. * Tasks: Integrate known information on water supply, water uses, and water budget of Sonoma Creek watershed, present findings at public meetings, provide technical support to decision-makers. * SEC is partner in current USGS/Sonoma County groundwater study. County supervisor and City council members holding public meetings about water issues.	SEC	SONCITY	SONOMACO	Ongoing	0	999999	1	0	60,000	Sonoma Creek Watershed	NONE	WS2	WS4	REC4	NONE
291	Tolay Creek Shoreline	* Enhancement of 500 feet of shoreline	USFWS	STB	DFG	Ongoing	0	999999	1	30,000	1	Shoreline of Tolay Creek, west of Sonoma Creek	NONE	WQ7	HE3	NONE	NONE
292	City of Sonoma Creeks Plan	* City asked SEC to lead efforts to draft a spatially explicit plan to protect and enhance streams in City of Sonoma (all of which support steelhead and chinook), reduce flooding impacts, daylight streams, acquire wide setbacks.	SEC	SONCITY	NONE	Ongoing	0	999999	1	1	40,000	Creeks within City limits of Sonoma	NONE	FP4	WQ7	HE3	NONE
293	Watershed Education Project (Sonoma Creek watershed)	* Program brings local scientists, restorationists, and educators into local classrooms for watershed science lessons and fieldtrips to watershed project sites. * Lessons meet CA science standards * Program has run very successfully for 3 years, limited only by funding. * Project costs 80,000/yr	SEC	NONE	NONE	Ongoing	200101	999999	1	40,000	80,000	Sonoma Creek watershed	NONE	REC5	REC4	NONE	NONE
294	Community-Based Restoration and Stewardship - Marin Islands National Wildlife Refuge	* Save The Bay and the US Fish and Wildlife Service are partnering to educate and involve the public in the restoration of the Marin Islands. * Since July of 2002, Save The Bay and USFWS have been leading pilot restoration programs via kayak to introduce the public to the Marin Islands. Volunteers kayak to the islands, learn about their ecology and history, and then help to remove non-native scotch broom, iceplant, and fennel, as well as shoreline trash clean-ups. * USFWS is developing a formal restoration plan for the large island to be completed in October 2004, with implementation of restoration activities largely through community-based stewardship.	STB	USFWS	NONE	Ongoing	0	999999	1	1	1	Islands off of San Rafael shoreline	NONE	HE4	REC4	REC5	NONE



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295	San Anselmo Creek - Removal of Rubble	* Concrete slabs and riprap (mostly remnants of retaining walls and patio slabs that have washed downstream) create stagnant pools with high temperatures and low dissolved oxygen. * Their removal would restore a more normal stream morphology, improve water quality, and probably improve low-flow passage for juvenile steelhead.	FCCMW	NONE	NONE	Ongoing	0	999999	1	0	25,000	San Anselmo Creek where rip rap and concrete lies	Steelhead	WQ7	HE1	WQ6	HE5
296	San Anselmo Creek, Upper - Geomorphic-Hydrologic Assessment and Development of Plan for Habitat Restoration	* This reach of creek contains the best spawning gravels in the watershed, but it dries early in the summer. * There are no diversions upstream and substantially no development. It would benefit steelhead to increase instream flow in the summer.	FAIRFAX	NONE	NONE	Proposed	0	999999	1	0	25,000	San Anselmo Creek within town of Fairfax	Steelhead	HE1	NONE	NONE	NONE