

### SCIENCE AND TECHNOLOGY RESOURCE INVENTORY

PROGRAM DESCRIPTION	Monitoring/ Research		Water Quality	Biological Resources	Atmospheric/ Air Quality	GIS/Modeling/ Visualization	Engineering/BMPs	Data/Info Resources	Funding/ Acquisition
	Water Quality	Biological Resources							

**FEDERAL AGENCIES**

**U.S. Department of Agriculture**

<p><u>United States Forest Service</u></p>	<p>The U.S. Department of Agriculture Forest Service manages public lands in national forests and grasslands. The Forest Service manages for multiple uses and benefits and for the sustainable yield of renewable resources such as water and wildlife. The Watershed and Air Management program focuses on watershed conditions, weather and drought, improvements and restoration, soils, riparian management, air quality, water quality and uses.</p>	X	X	X					
<p><u>Natural Resource Conservation Service (NRCS)</u></p>	<p>The mission of the Natural Resource Conservation Service is to assist in the conservation, development, and productive use of the nation's soil, water and related resources. Technical assistance is provided to individuals, cities, and counties in the inventory, planning and installation of natural resource conservation measures. This assistance includes soil, water and other resource inventories, and the development of appropriate Best Management Practices (BMPs) to protect the quality and/or the quantity of soil, water, air, vegetation, and wildlife resources. The NRCS also administers the Water Bank Program whose objectives are to preserve, restore and improve habitat in important migratory waterfowl nesting and breeding areas and to benefit other wildlife resources. The NRCS has a Wetlands Reserve Program which focuses on the restoration of a variety of wetland types throughout California.</p>	X	X	X		X	X		
<p><u>National Agricultural Library (NAL): Water Quality Information Center</u></p>	<p>The Water Quality Information Center provides electronic information about water and agriculture. The Center was established in 1990 to support USDA's coordinated plan to address water quality concerns. As the focal point of NAL's water quality efforts, the Center collects, organizes, and communicates the scientific findings, educational methodologies, and public policy issues related to water quality and agriculture. The center's activities involve three areas: communications, library resources, and special projects.</p>							X	
<p><u>The Cooperative State Research Education and Extension Service (CSREES)</u></p>	<p>The heart of the CSREES results-oriented vision is to improve economic, environmental, and social conditions in the United States and globally. These conditions include improved agricultural and other economic enterprises; safer, cleaner water, food and air; enhanced stewardship and management of natural resources. One of the many programs is the Water Quality Program which addresses water quality issues in U.S. agriculture. The program seeks to provide watershed-based information that can be used to assess sources of water quality impairment and develop and/or recommend options for continued improvement of water quality in targeted watersheds.</p>	X							

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<u>National Agricultural Statistics Service</u>	The National Agricultural Statistics Service mission is to provide timely, accurate, and useful statistics in service to U. S. agriculture. The Research and Development division has the mission of improving and advancing the services and programs of the National Agricultural Statistics Service through research, analysis, and experimentation in statistical methodology and advanced technology and in the development and maintenance of a national area sampling frame and samples.						X
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**U.S. Department of Defense**

<u>United States Navy</u>	The U.S. Navy is involved in many water quality monitoring projects within the San Diego region, some of which include: Sediment Quality Characterization study (1999); Quantifying insitu metal contaminant mobility in marine sediments (1999); Offshore porewater and flux chamber sampling of San Diego Bay (1999); Seawater polynuclear aromatic hydrocarbons and copper in San Diego Bay (1999); Copper loading to U.S. Navy harbors: Norfolk, VA. Pearl Harbor, Hi. and San Diego, CA (1999).	X	X				
<u>United States Army Corps of Engineers</u>	The mission of the U.S. Army Corps of Engineers is to ensure the navigability and environmental protection of the waters of the United states. The Corps is the principal Federal agency involved in the regulation of wetlands; however, the EPA has oversight responsibilities. The Civil Works Environmental mission is to ensure that all US Army Corps of Engineers projects, facilities, and associated lands meet environmental standards. The environmental program has four functions: compliance, restoration, prevention, and conservation.	X	X	X	X		

**National Oceanic and Atmospheric Administration (NOAA)**

<u>National Oceans Service</u>	The National Ocean Service develops the national foundation for coastal and ocean science, management, response, restoration, and navigation. The National Ocean Service maintains its leadership role in coastal stewardship by bridging the gap between science, management, and public policy in the following areas: Healthy coasts, navigation, coastal and ocean science and coastal hazards.	X	X				
<u>National Marine Fisheries Service</u>	The National Marine Fisheries Service strategic plan contains three goals: Rebuild and maintain sustainable fisheries, promote the recovery of protected species and protect and maintain the health of coastal marine habitats.	X	X				
<u>NOAA Research</u>	This office conducts research, develops products, and provides scientific information and leadership toward fostering NOAA's evolving environmental and economic mission.			X	X		

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<u>National Weather Service</u>	The National Weather Service provides weather, hydrologic, and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas, for the protection of life and property and the enhancement of the national economy. National Weather Service data and products form a national information database and infrastructure which can be used by other governmental agencies, the private sector, the public, and the global community.					X				X
<u>National Environmental Satellite, Data and Information Service</u>	The National Environmental Satellite, Data and Information Service mission is to provide and ensure timely access to global environmental data from the satellites and other sources to promote, protect, and enhance the Nations economy, security, environment and quality of life. To fulfill its responsibilities, NESDIS acquires and manages the Nations operational environmental satellites, provides data and information services, and conducts related research.						X			X
<u>National Status and Trends Program</u>	The Mussel Watch Program is designed to define the status of estuarine and coastal contamination nationally to determine whether trends are occurring in contaminant levels. Study locations include San Diego Bay.	X								
<b><u>U.S. Department of Transportation</u></b>										
<u>United States Coast Guard</u>	The U.S. Coast Guard has primary responsibility for responding to spills of petroleum or other hazardous substances to the Bay. The Coast Guard does not conduct routine monitoring activities, but may collect and analyze samples to match spilled product to suspected sources.	X								
<b><u>U.S. Department of the Interior</u></b>										
<u>United States Geological Service. (USGS)</u>	The United States Geological Service serves the Nation as an independent fact-finding agency that collects, monitors, analyzes and provides scientific understanding about natural resource conditions, issues, and problems. The National Water-Quality Assessment (NAWQA) Program is designed to describe the status and trends in the quality of the Nation's ground- and surface-water resources and to provide a sound understanding of the natural and human factors that affect the quality of these resources. As part of the program, investigations will be conducted in 59 areas called "study units." The Study unit closest to San Diego is the Santa Anna Basin.	X	X			X				

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<u>United States Fish and Wildlife Service</u>	The U.S. Fish and Wildlife Service is the principal Federal agency for conserving, protecting and enhancing fish, wildlife, plants, and their habitats for the continuing benefit of the American public. The Division of Environmental Quality has an Environmental Contaminants Program which includes contaminants specialists in detecting toxic chemicals; addressing their effects; preventing harm to fish and wildlife and their habitats; and removing toxic chemicals and restoring habitat when prevention isn't possible. The Southern California Coastal Wetlands Inventory is a database of existing information on 41 coastal wetlands that lie between Mexico and Pt. Conception in northern Santa Barbara County. It provides three types of information for each site: 1) a map of the wetland's historical extent; 2) a map of recent habitat distributions; and 3) a "profile" which briefly describes ecological conditions, and land use and enhancement histories.	X	X							
<u>Bureau of Reclamation</u>	The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public. The National Irrigation Water Quality Program is an inter-bureau program managed by the Department of the Interior. Participating bureaus within the Department include Bureau of Indian Affairs, Bureau of Reclamation, U.S. Fish and Wildlife Service, and U.S. Geological Survey. The San Diego Area Water Reclamation Program is an ambitious, long-term effort designed to decrease regional reliance on imported water. The program partners - cities of San Diego, Escondido, and Poway; Otay Water District; and San Diego County Water Authority - have developed a system of interconnected water recycling projects that will make the best use of existing and planned facilities, more than doubling the current average local supply.	X								
<u>National Parks Service (NPS)</u>	The goals of the National Park Service include: the promotion and regulation of the use of the national parks which purpose is to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations. The mission of the WRD is to preserve and protect NPS water resources and water dependent environments. This mission is accomplished through a watershed management program based on needs at the park, cluster, region, and national levels. The ARD, in partnership with parks and other agencies, works to preserve, protect, enhance, and understand air quality and other resources sensitive to air quality in the National Park Service.	X	X	X						

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**Other Federal Agencies**

<p><u>United States Environmental Protection Agency (U.S. EPA)</u></p>	<p>The Environmental Protection Agency was established to protect, maintain, restore, and enhance environmental quality and human health through the regulation of activities that have potentially harmful effects on air, water, and land resources. The EPA is charged with protecting the environment through pollution prevention, reduction, remediation, and education. The offices within this agency involved with air and water quality issues are: Office of Water, whose Natural Water Program activities are targeted to prevent pollution wherever possible and to reduce risk for people and ecosystems in the most cost-effective ways possible; Office of Air and Radiation who provides air pollution, clean air, and air quality information. The Office of Air and Radiation develops national programs, technical policies, and regulations for controlling air pollution and radiation exposure. OAR is concerned with pollution prevention, indoor and outdoor air quality, industrial air pollution, pollution from vehicles and engines, radon, acid rain, stratospheric ozone depletion and radiation protection.</p>	X	X	X	X	X	X	X
<p><u>Council on Environmental Quality</u></p>	<p>The Council on Environmental Quality was established with the responsibility to inform the President and Congress on environmental problems and issues. Among its more notable accomplishments are an annual report on the state of the nation's environment and the Global Report 2000, a status report on the world's environment which contributed significantly to the knowledge of environmental problems and trends.</p>						X	
<p><u>Federal Geographic Data Comitte</u></p>	<p>The Federal Geographic Data Comitte coordinates the development of the National Spatial Data Infrastructure. The NSDI encompasses policies, standards, and procedures for organizations to cooperatively produce and share geographic data. The 17 federal agencies that make up the FGDC are developing the NSDI in cooperation with organizations from state, local and tribal governments, the academic community, and the private sector.</p>				X			
<p><u>Naval Station GIS</u></p>	<p>The Naval Station GIS Project has collected several environmental data sets for the base and organized them into a relational database. The database design was based on the San Diego Bay data model, which was modified to handle terrestrial and facility datatypes. MapInfo GIS is the desktop software used to integrate the raster and vector graphics with the database. Phase II of the project is currently underway to extend the sytem ontothe world wide web allowing users to access the information across the internet with a web browser.</p>				X			
<p><u>Environmental Modeling Center (EMC)</u></p>	<p>The Environmental Modeling Center improves numerical weather, marine and climate predictions at the National Centers for Environmental Prediction (NCEP), through a broad program of research in data assimilation and modeling. In support of the NCEP operational forecasting mission, the EMC develops, improves and monitors data assimilation systems and models of the atmosphere, ocean and coupled system, using advanced methods developed internally as well as cooperatively with scientists from Universities, NOAA Laboratories and other government agencies, and the international scientific community.</p>				X			

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**CALIFORNIA STATE AGENCIES**

<p><u>California State Water Resources Control Board, The Bay Protection and Toxic Cleanup Program</u></p>	<p>Develops control strategies for pollution sources and management plans. Assessment reports identify categories of pollution, identify surface waters bodies that would not attain water quality standards without pollution source controls, describes the development of BMPs for control of pollution sources and reviews existing control programs. The Bay Protection and Toxic Cleanup Program- (BPTCP) has four goals: (1) provide protection of present and future beneficial uses of the bays and estuarine waters of California; (2) identify and characterize toxic hot spots; (3) plan for toxic hot spot cleanup or other remedial or mitigation actions; (4) develop prevention and control strategies for toxic pollutants</p>						X		
<p><u>California Department of Toxic Substance Control</u></p>	<p>Responsible for locating, investigating and cataloging toxic waste sites, identifying the responsible parties, and for supervising remediation of those sites.</p>		X						
<p><u>Caltrans</u></p>	<p>CALTRANS planning for the construction of new bridges crossing rivers, creeks, and wetlands and highways adjacent to wetlands and river systems requires mitigation of impacts to wetland, stream and riparian habitats and their botanical fish and wildlife resources. Currently they are involved in a number of projects.</p>	X	X				X		
<p><u>Department of Pesticide Regulations</u></p>	<p>The Department of Pesticide Regulation implements a statewide well monitoring program. They report on their findings in an annual report titled "Sampling for Pesticide Residues in California Well Water: . Currently they monitor 35 wells in the San Diego County.</p>	X							
<p><u>CERES-California Environmental Resources Evaluation System</u></p>	<p>CERES is an information system developed by the California Resources Agency to facilitate access to a variety of electronic data describing California's rich and diverse environments. The goal of CERES is to improve environmental analysis and planning by integrating natural and cultural resource information from multiple contributors and by making it available and useful to a wide variety of users.</p>							X	

**State Water Resources Control Board/Regional Water Quality Control Board**

<p><u>TMDL Program</u></p>	<p>Total maximum daily loads (TMDL's) is a quantitative assessment of water quality problems, contributing sources and load reductions or control actions needed to restore and protect bodies of water required of states from the CWA Section 303 (d). Currently TMDL's are being developed for Shelter Island, Rainbow Creek and Chollas Creek.</p>	X							
<p><u>NPDES Municipal Stormwater Permitting Program</u></p>	<p>Issues a Municipal Stormwater Permit to twenty copermittees to implement programs that reduce discharge of pollutants. The permits identify a range of issues that need to be addressed with regards to stormwater pollution prevention.</p>	X	X	X	X	X	X		

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<u>NPDES Construction Permitting Program</u>	The general construction permit program requires landowners to: reduce or eliminate non-stormwater discharges to the stormwater conveyance system, develop and implement a stormwater pollution prevention plan and develop and implement a monitoring program	X					
<u>NPDES Industrial Permitting Program</u>	The general industrial permit program contains three requirements: eliminate or reduce non-stormwater discharges to stormwater conveyance systems, develop and implement a stormwater pollution prevention plan and to develop and implement a monitoring program	X					
<u>Ambient Biological Assessment Monitoring Program</u>	To evaluate the biological and physical integrity of targeted inland surface waters in the San Diego Region. The information will aid in the development of TMDL's	X	X				
<b><u>REGIONAL AGENCIES</u></b>							
<u>San Diego Association of Governments (SANDAG)</u>	The 18 cities and County government are SANDAG serving as the forum for regional decision-making. Projects encompass SANDAG work on transportation, environmental management, fiscal reform, economic development, military/community issues, and binational coordination. SANDAG is currently implementing a large scale beach replenishment project covering eroded beaches throughout the region's coastline. The Water Quality Elements' goal is to protect water quality and the beneficial uses of local coastal waters, inland surface waters, and ground waters from adverse impacts related to land development.		X		X		X
<u>California Geographic Information Association</u>	The California Geographic Information Association was formed in 1994 based on a recommendation put forth in the Report of the Geographic information Task Force. Since its inception, CGIA actively pursued policies and took actions that promoted the use and development of geographic information. CGIA lead the initiative for the Strategic Geographic Information Investment Act and actively promoted AB 1293 and AB 3431 in the California legislature.				X		
<u>San Diego GIS Coordinators Group</u>	The San Diego GIS Coordinators Group is made up of GIS managers from SANDAG member agencies. The Group meets quarterly to discuss issues & technologies impacting today's users of GIS and its related technologies. To serve as a forum for San Diego region public agencies to develop partnership, and share information, ideas, strategies, and solutions regarding the management of GIS and related technologies in order to provide more efficient and effective service to our agencies and constituents.				X		
<u>SanGIS</u>	SanGIS is a joint powers agency of the City and County of San Diego, responsible for maintenance of and access to regional geographic databases.				X		X

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<p><u>Southern California Coastal Water Research Project (SCCWRP)</u></p>	<p>Our mission is to contribute to the scientific understanding of linkages among human activities, natural events, and the health of the Southern California coastal environment, communicate this understanding to decision makers and other stakeholders, and recommend strategies for protecting the ocean environment for this and future generations. The Southern California Bight Pilot Project (SCBPP) -was 12 government organizations, including the 4 largest municipal wastewater dischargers and the 5 agencies regulating discharges in southern California, who collaborated to conduct a comprehensive regional monitoring survey in 1994. The survey's primary objective was to assess the spatial extent and magnitude of ecological disturbances on the mainland continental shelf of the SCB and to describe relative conditions among different regions of the SCB. SCCWRP is also involved with an aerial deposition program in the San Diego Region.</p>	X	X	X					X	
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**LOCAL AGENCIES**

<p><u>San Diego Unified Port District</u></p>	<p>Port of San Diego's Environmental Services Department collects runoff samples from stormwater discharges; oversees dredging efforts; works with fish and wildlife officials on the protection of San Diego Bay's natural resources; interfaces with local, state and federal officials to address runoff from upstream sources; and, provides input on property acquisitions.</p>	X	X							
<p><u>Department of Planning and Land Use</u></p>	<p>The department functions as the planning agency for the unincorporated area formulating community plans and coordinating land use considerations as follows: processing of zoning permit and subdivision applications, providing public information related to zoning and subdivision regulations; assuring compliance with California Environmental Quality Act; administering the County's multiple species open space preservation program; issuing construction permits for individual developments that implement all the regulations and conditions placed on the property; and maintaining an enforcement program and issuing citations for violations of the land use and construction regulations.</p>		X				X			

**County of San Diego**

<p><u>County Flood Control Commission</u></p>	<p>The FCD is to provide for the control of the flood and stormwaters of the District, and of the flood and storm waters that flow into the District. It is to preserve such waters for beneficial use such as water supply, groundwater percolation, recreation, and environment. It is to protect the land, properties, facilities, and people within the county from damage caused by storm and flood waters. It is to protect, preserve, and restore the watersheds within and without the District.</p>		X				X			
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<a href="#"><u>Department of Agriculture, Weights and Measures, San Diego County Fish and Wildlife Advisory Commission, Watershed Resource Management</u></a>	The San Diego County Fish and Wildlife Commission serves the public by providing advice and funding on issues and projects relevant to the prudent use, protection, and perpetuation of San Diego's wildlife. The Watershed Resources Management program's primary goal is to restore fire to its natural place in the ecosystem. The program conducted several vegetation management projects. These included improving wildlife habitat by removing Arundo donax (Mexican bamboo) and other invasive exotic species along Sweetwater Road, Main Street in Fallbrook, La Mar Park, and the Santa Margarita River; and continuing landfill soil erosion protection and beautification at many closed landfill sites throughout the county.		X					X
<a href="#"><u>Department of Environmental Health, Water Quality Program</u></a>	Responsible for monitoring recreational water quality at beaches and bays to protect public health, also conduct Dry Weather Field Screening and cooperative monitoring through the NPDES Municipal Stormwater Permit. In addition focused studies are conducted, including: (1) An Investigation into the Sources of Fecal Contamination to Four San Diego Beaches (December 1999) in cooperation with the City of San Diego, (2) Ocean Illness Survey Results (May 2000) , and (3) Storm Drain Virus Study (ongoing).	X			X	X	X	
<a href="#"><u>Department of Parks and Recreation</u></a>	The Parks and Recreation Department plays a significant role in implementing the Multiple Species Conservation Plan (MSCP). Our primary responsibility is the acquisition of sensitive habitat lands identified in the County MSCP Subarea. As these lands are acquired, they are included into the MSCP preserve system. Selected species and habitats will be carefully monitored, with the goal of ensuring the long-term health of populations of priority plant and animal species. Functional habitats and linkages between habitats will also be ensured through these activities.		X					
<a href="#"><u>Stormwater Coopermittes (County of San Diego, 18 Cities and Port)</u></a>	Dry Weather Field Screening and cooperative monitoring through the NPDES Municipal Stormwater Permit	X						
<a href="#"><u>San Dieguito River Park</u></a>	The San Dieguito Wetland Restoration Project is a proposal to implement a tidal wetland restoration project at the San Dieguito Lagoon that would 1) restore the aquatic functions of the lagoon through permanent inlet maintenance and expansion of the tidal basin and 2) create subtidal and intertidal habitats on both the east and west sides of Interstate 5 (I-5). This proposal is part of a Park Master Plan being developed for the coastal area that would also provide for non-tidal wetland and upland habitat restoration and public access.	X	X					

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**Colleges and Universities**

<a href="#">Scripps Institute of Oceanography</a>	The University of California operates the Scripps Institution of Oceanography (SIO) in La Jolla, CA. SIO monitors chemical constituents and toxicity in their effluent. Since seawater circulated through the various aquaria is treated with copper sulfate and antibiotics, copper and toxicity testing are required effluent analyses.	X							
<a href="#">SDSU</a>	Projects that SDSU are currently involved in include; Monitoring and Modeling of Water Quality in the Tijuana River Watershed and A Watershed Approach to Wastewater Management. They are actively involved in the Tijuana Watershed and maintain a high level of GIS and modeling expertise.					X		X	
<a href="#">Center for Earth Systems Analysis Research</a>	The Center for Earth Systems Analysis and Research is an internationally recognized facility that specializes in applying image processing, remote sensing, GIS, automated cartography, and numerical modeling to problems with spatial dimension.					X			
<a href="#">UC Davis</a>	The Information Center for the Environment is a cooperative effort of environmental scientists at the University of California, Davis and collaborators at over thirty private, state, federal, and international organizations interested in environmental protection.	X	X			X	X	X	
<a href="#">UCSD</a>	Sea Grant Extension Program-Watershed Organizations Directory for San Diego County.							X	
<a href="#">San Diego Supercomputer Center</a>	The San Diego Bay Project serves as a testbed for developing enabling technologies for computational ecology, as well as providing a suite of model simulation capabilities for San Diego Bay. Emerging Technologies considered in this project include tools for multi-model, multi-resolutions, for comparative analysis and visualization of model results, and for efficient end-user interfaces to encourage cross discipline use of models.					X		X	
<a href="#">CSU</a>	The Moss Landing Marine Laboratories (MLML) are the marine research and teaching facilities which serve a consortium of seven California State Universities in Northern California.	X	X						

**PRIVATE AGENCIES**

**Environmental Groups, Watershed Groups, Non-profit, etc.**

<a href="#">Center For Marine Conservation, The Pacific Water Quality Project</a>	The Pacific Water Quality Project -defends the ocean and coastal waters off California from pollution threats; works to restore impaired waters; raises awareness of the importance of clean water and the resources that depend on it; and seeks increased legislative protections for California's coast and ocean. CMC will coordinate the efforts of volunteer monitors and ensure that their data are used to identify and track potential water quality problems.	X	X			X		X	
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<a href="#"><u>Native American Environmental Protection Coalition (NAEPC)</u></a>	Ensure the protection and preservation of Tribal Land and their ecosystem. Coordinate and communicate to implement environmentally sound, culturally appropriate, sustainable programs and policies. NAEPC can provide training and disseminate information to its member Tribes. Water quality monitoring, sand removal, flow control from Lake Henshaw wilderness designation. Member Tribes have agreed to conduct watershed assessments and develop management plans.	X	X	X	X	X	X	
<a href="#"><u>The Environmental Trust</u></a>	The Environmental Trust is a non-profit land trust organization. It is an organization that exists to protect and preserve our natural resources for future generations. This goal is to be achieved by acquiring land, establishing land banks and facilitating the monitoring and management of lands identified and set aside by individuals, agencies, and developers for protection. The trust is currently involved in these projects; LAND BANK/PRESERVES, McGinty Mountain, O'Neal Canyon, Lake Hodges; VERNAL POOLS / WETLANDS, Ramona / Mira Mesa and Poway Creek Riparian Preserve.		X					
<a href="#"><u>California Coastal Coalition</u></a>	The California Coastal Coalition (CalCoast) is a non-profit advocacy group comprised of 28 coastal cities; six counties; AMBAG, BEACON, SANDAG and SCAG; along with business associations and allied groups committed to restoring California's shoreline through sand replenishment, increasing the flow of natural sediment, wetlands recovery and improved water quality.						X	
<a href="#"><u>California Exotic Pest Plant Council</u></a>	The California Exotic Pest Plant Council (CalEPPC) is dedicated to finding solutions to problems caused by non-native pest plant invasions of the state's natural areas. They are currently involved in a number of on-going projects throughout San Diego County involving the removal of Klamathweed, Sanata Margarita Exotics Control Program and Artichoke Thistle and Tree Tobacco in the highlands of Carlsbad.		X					
<a href="#"><u>California Waterfowl Association</u></a>	CWA directly and powerfully impacts the future of your state's waterfowl through its programs for Waterfowl, Wetlands, Government Affairs, and Education. They are currently involved in wetland restoration projects in San Diego.		X					
<a href="#"><u>San Diego Oceans Foundation</u></a>	The white seabass restoration program was established to re-introduce the White Seabass to San Diego Coastal Waters. Artificial Reef Monitoring Project-the monitoring project will record the growth and development of marine life on the Yukon. Marine scientists will investigate, monitor, and evaluate the effectiveness of the ecological value of the Yukon. They will also monitor fish and invertebrate populations, seafloor changes, sea life changes, and evaluate the comparative analysis to other artificial and natural reefs. It is hoped that the placement of the Yukon as an artificial reef has established or expanded existing populations of marine life in San Diego.	X	X			X		

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<a href="#">Society for Ecological Restoration, California Chapter</a>	SERCAL, the first State Chapter of the Society for Ecological Restoration (SER), a non-profit membership organization, is dedicated to the purpose of bringing about the recovery of damaged ecosystems. Our goal is to restore damaged sites to a fully functioning, productive and self-sustaining status. SERCAL Regions 5-Imperial, Inyo, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, Santa Barbara, Ventura.		X					
<a href="#">Stream Team</a>	The San Diego Stream Team has been using rapid bioassessment to monitor streams throughout the region for several years. Our protocol is that established by Department of Fish and Game. We are working to establish a baseline for stream biological health on all watersheds such that trends in water quality can be detected over time. The SDST will include measurements for nutrients and some metals as part of our monitoring program beginning in 2001. We are a volunteer organization.	X	X					
<a href="#">California Native Plant Society Vegetation Program</a>	The mission of the Vegetation Program of the California Native Plant Society is to develop and disseminate quantifiable definitions of all types of vegetation in California. These definitions will be used to promote science-based conservation at the natural community and ecosystem level throughout the State. The principal goals of the Vegetation Program are to develop, promote, and maintain a uniform vegetation classification that will be adopted by private, state, and federal resource agencies with jurisdiction over land management, and to develop defensible definitions of the rare vegetation of the state.			X				
<a href="#">Surfrider Foundation</a>	Environmental Task Force (ETF), Blue Water Task Force (BWTF) is our coastal water quality-monitoring program. The ETF is one of the major activism sub-committees of the San Diego Surfrider Foundation. In this group, you will become involved with the issues that affect our surfing and beach environment. We are active on the following issues: Maintaining and creating coastal access, Preserving and improving coastal and beach aesthetics, Water Quality, Beach and surf site Restoration and Preservation. Working with the city on San Elijo Lagoon Project sand replenishment and experimental artificial reef.	X	X				X	
<a href="#">Volcan Mountain Preserve Foundation</a>	The Volcan Mountain Preserve Foundation, in cooperation with private organizations, public governmental agencies and principal landowners on the mountain, has been able to preserve over 4,000 acres in public ownership. We have an opportunity to acquire more critical parcels of land which would connect several other parcels of protected land and thus preserve a large, pristine ecosystem, create a valuable wildlife corridor and set aside a valuable treasure for future generations to come.			X				
<a href="#">Wetland Action Network</a>	Protecting & restoring wetlands along the Pacific Migratory Pathway. San Diego area pools and wetlands. Conservation of vernal pools and wetlands in and around southern California.	X	X					

PROGRAM DESCRIPTION	Monitoring/ Research		Water Quality	Biological Resources	Atmospheric/ Air Quality	GIS/Modeling/ Visualization	Engineering/BMPs	Data/Info Resources	Funding/ Acquisition

**Professional and Industry Associations**

<a href="#">American Public Works Association</a>	This site is the American Public Works Association Utah Chapter- A Stormwater committee covers information on Best management Practice Manuals from around the country; stormwater utility concepts; and other internet links.						X	X	
<a href="#">Urban and Regional Information Systems Association</a>	The Urban and Regional Information Systems Association is a non-profit association of professionals using Geographic Information Systems and other information technologies to solve challenges in all state and local government agencies and departments. URISA is considered to be the premier organization for the use and integration of spatial information technology to improve the quality of life in urban and regional environments.					X			
<a href="#">American Society of Civil Engineers</a>	The American Society of Civil Engineers has developed a comprehensive database on BMP performance under an EPA cooperative agreement. The long-term goal of the project is to promote technical design improvements for BMPs and to better match their selection and design to the local storm water problems being addressed. The initial public release of the database is now available on CD-ROM and will operate on conventional personal computers. Internet access to the database is being planned for 2000. The purpose of this project is to improve water quality nationwide by sharing consistent and transferable information on stormwater best management practices. The database will help water quality professionals across the U.S. learn about successful BMP's and						X	X	
<a href="#">American Water Works Association</a>	The American Water Works Association (AWWA) is an international nonprofit scientific and educational society dedicated to the improvement of drinking water quality and supply. Founded in 1881, AWWA is the largest organization of water supply professionals in the world. Its more than 50,000 members represent the full spectrum of the drinking water community: treatment plant operators and managers, scientists, environmentalists, manufacturers, academicians, regulators, and others who hold genuine interest in water supply and public health.						X		
<a href="#">California Storm Water Quality Task</a>	Provides specific guidance on selecting best management practices for reducing pollutants in stormwater discharges from construction activities. The handbook is for owners/developers of construction sites that have to obtain a State of California NDPEs general permit. It outlines procedures and provides worksheets for preparing a Stormwater Prevention Plan (SWPP) and BMPs that become a part of the SWPP.						X		
<a href="#">EvTEC-Stormwater Best Management Practices (BMP) Verification Program</a>	EvTEC is collaborating with the Washington State Department of Transportation (WSDOT) in the operation of a program to verify the performance of innovative stormwater Best Management Practices (BMP) under field operating conditions. The technologies under evaluation are intended to manage ultra-urban stormwater runoff, removing oil, grease, adsorbed hydrocarbons, sediment, and other pollutants before they can be introduced into the soil.						X		