



Introduction

To identify projects and to gauge the potential for these projects to meet the objectives and planning targets, development of the IRWMP included a “Call for Projects” which provided an opportunity for stakeholders to directly submit their projects for inclusion in a database. Stakeholders could submit projects at any stage of development, including general ideas for potential projects (or project concepts). As of October 31, 2006, more than 1,500 projects and project concepts had been entered into the project database. This appendix contains a list of the projects, including information about the project benefits provided by the entity submitting the project.

North Santa Monica Bay Subregion Projects													
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description	
1	Provide Septic System (OWTS) Pumps and Customers with Septic System Guides	Responsible Agencies in the Malibu Creek Watershed	Update outreach materials for pumpers to distribute to customers to inform of good practices for septic system operation. Annual Effort: 40 hrs.	-	-	-	-	-	-	-	-	-	NA
2	Irrigation credits/subsidies/trading	Assorted Water Agencies	Some people agree their property will not be irrigated. Others pay the non-irrigators in order to have water for irrigating. No property too small.	X	-	-	X	-	-	-	-	-	NA
3	California Department of State Parks General Plan	California Department of State Parks	Key areas of the Los Angeles region of the CA Department of State Parks do not have a General Plan, including Lower Topanga. Until a General Plan is in place, restoration projects are in a holding pattern, thus completing the Plan will allow for greater restoration to occur.	-	-	-	X	-	X	-	-	-	NA
4	California Department of State Parks Restroom Facilities	California Department of State Parks	Suitable toilets + maintenance at Rock Pools	-	-	-	X	-	X	-	-	-	NA
5	Las Flores Maintenance Station (CALTRANS) On-Site Structural BMPs for capturing wet-weather runoff	CALTRANS	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the CALTRANS Los Flores Maintenance Station to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	-	NA
6	Topanga Narrows	CALTRANS with RCDSMM Support	Every time there is a rain-heavy year, parts of Topanga Canyon Boulevard collapse. From the point of view of the resource, each collapse entails sediment and road filling the narrow creek – and the repairs entail huge amounts of cement and rirrap which encroach upon already limited riparian habitat. In order to preserve endangered Southern Steelhead Trout populations, we need a creative redesign of the road which will prevent this ongoing problem. In addition, the current road design is potentially a public safety hazard and financial drain upon the community as emergency fixes are costly.	-	-	-	X	-	X	-	-	-	Improves road safety. Provides better bicycle/foot access.
7	Topanga Lagoon Restoration Project	CALTRANS with RCDSMM Support	Project will expand and restore the Topanga Lagoon to part of its historic native condition. 4 alternatives have been provided and the analysis states that these options would work. Prior to a final design, we would need the State Parks General Plan, then land swap agreements between Caltrans, LACDBH, and State parks. After that, we would need to do the EIR and then the construction design. Planned designs include taking out much of the artificially created cliffs on the North side of the creek and putting in a bridge to replace all four lanes of PCH for up to several hundred yards so as to be able to widen the lagoon and the mouth of the creek to better approximate some of what used to be there back in the day. Note this is a partial restoration, not a complete restoration. The project would not impact traffic as planned.	-	-	-	X	-	X	-	-	-	Increases wetlands in L.A. County, improves scenery.
8	LVC 25	City Of Calabasas	LVC 25 is listed in the master plan as eradication of Procamburus clarkii, which is a non-native crayfish that can prey on arroyo toad tadpoles. Questa Engineering, who conducted the feasibility study, did not directly observe the species during their file	-	-	-	-	-	X	-	-	-	NA
9	LVC 26, 27, 28, 30A	City Of Calabasas	At LVC 26, the fish barrier lies immediately upstream of Wright School and near the waterline crossing. This project does not appear on Heal the Bay Fish Passage Inventory. Because the barrier is mostly pipe, rubble, and woody debris, Questa Engineering s	-	-	-	-	-	X	-	-	-	NA
10	LVC 23, 29	City Of Calabasas	LVC23 is a .15 acre area on the west side of Las Virgenes Creek, near Lost Hills Road. It occupies a flat area between the bottom of the adjacent fill slope and the existing edge of riparian vegetation. The area is currently mowed and kept clear of tall	-	-	-	-	-	X	-	-	-	NA
11	LVC 18, 20, 24	City Of Calabasas	LVC18 is roughly .18 acres in size along 200 L.F. of Las Virgenes Creek's east bank. The bank ranges from steeper than 1:1 to beyond vertical in this reach, and tops out to what appears to be a fill bench between the creek and the homes fronting it. The	-	-	-	-	-	X	-	-	-	NA
12	LVC 15, 17	City Of Calabasas	LVC-15 - Stabilize Bank. Private Property? Small bank stability problem on tributary to Las Virgenes Creek. Work would include placing rock check and rock riprap to stabilize. Allow \$15,000-\$20,000, including site inspection. Allow \$2,000 for inspecti	-	-	-	-	-	X	-	-	-	NA
13	LVC 16	City Of Calabasas	LVC 16 includes an area of roughly 0.15 acre that is in need of bank recontouring (as noted in the master plan), plus an additional area of roughly 0.7 acre dominated by Pepper Trees (not identified in the master plan). The Pepper Trees form a continuous	-	-	-	-	-	X	-	-	-	NA
14	LVC 13, 14, 19	City Of Calabasas	LVC 13 begins roughly 125' downstream from the Agoura Rd bridge, and ends roughly 200' further downstream, covering approximately 0.5 acre. The east bank is high quality riparian forest and is relatively undisturbed. The west bank has been filled to some	-	-	-	X	-	X	-	-	-	NA
15	LVC 01 – 04	City Of Calabasas	LVC-01 - LA County Flood Control District (LACFCD). Project site at upper end of concrete flood control channel, 8'-10' high vertical cut in bank along approx. 75' of channel, with transition repair area about 125'-135'. (1) Lay back bank slope, install	-	-	-	-	-	X	-	-	-	NA
16	Malibu TMDL Implementation Project	City of Malibu	Conduct special studies as required to meet Clean Water Act regulations, implement strategies to reduce/eliminate urban runoff pollution through BMPs, monitoring and evaluation of BMP effectiveness.	-	-	-	X	-	-	-	-	-	NA
17	Malibu NPDES Implementation Project	City of Malibu	Conduct special studies as required to meet TMDL objectives, implement strategies to reduce/eliminate urban runoff pollution through BMPs, monitoring and evaluation of BMP effectiveness.	-	-	-	X	-	-	-	-	-	NA
18	Malibu ASBS Implementation Project	City of Malibu	Conduct marine assessments as required to meet ASBS objectives, implement strategies to reduce/eliminate urban runoff pollution through BMPs, monitoring and evaluation of BMP effectiveness.	-	-	-	X	-	-	-	-	-	NA
19	Historical Ecology of Malibu Coastal Watersheds	City of Malibu	Research and report historical ecology in Malibu Coastal Watersheds to evaluate and bring to life, past human impacts to help current residents and visitors appreciate the importance of protecting the natural resources.	-	-	-	-	-	-	-	-	-	Environmental Education
20	Enhanced On-site Wastewater System Inventory	City of Malibu	Expansion of the Malibu Integrated Wastewater Management Information System (IWIMS) database to include systems installed before 1991.	-	-	-	X	-	-	-	-	-	NA
21	Malibu Wastewater IWIMS Implementation	City of Malibu	Enhance the opportunities to improve operation and maintenance of Malibu on-site wastewater treatment systems using the database to improve user education and operating techniques as required.	-	-	-	X	-	-	-	-	-	NA
22	Small Wastewater Facility Development	City of Malibu	If there is a need identified in the future to replace aging onsite wastewater treatment systems and if the environmentally superior replacement option is to construct a shared treatment facility, the project would be for planning, design and construction.	-	-	-	X	-	-	-	-	-	NA
23	Paradise Cove Pretreatment and System Upgrade	City of Malibu	Provide pre-treatment pollutant removal and storage capacity to increase the functional capacity of existing bacteria treatment system and evaluate the potential for system upgrade.	-	-	-	X	-	X	-	-	-	NA
24	Trancas Watersheds Integrated Water Plan	City of Malibu	Development in the Trancas Canyon area is proposed for single and multiple-family residences and commercial. Trancas Watershed Integrated Water Quality Management Feasibility Study to address the cumulative impacts of new development.	X	-	-	X	-	-	-	-	-	NA
25	Malibu Road Stormwater Management	City of Malibu	Reduce runoff and debris within the subwatersheds discharging into Malibu Lagoon. Reduce or redirect spillover from Pacific Coast Highway onto Malibu Road through the Malibu Colony Plaza. Possibly construct bioswales on northern side of Malibu Road to increase depth of flow channel and increase inlet capacity of some of the catchment systems.	-	-	-	X	-	-	-	-	-	Flood Management

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26	Malibu Recycled Water Delivery Project	City of Malibu	Installation of infrastructure to deliver recycled water from the planned Malibu Civic Center Reclamation Facility.	X	-	-	-	-	-	-	-	NA
27	Malibu Civic Center Riparian Habitat	City of Malibu	Construction of riparian habitat in conjunction with intermittent wetlands on Legacy Park to protect natural resources of Malibu Creek & Lagoon.	-	-	-	X	-	X	-	-	Environmental Education
28	Malibu Civic Center Stormwater Management	City of Malibu	Construction of vegetated stormwater detention basins/bio-swales to eliminate urban runoff pollution from reaching Malibu Creek and Lagoon.	X	-	-	X	-	X	-	-	Environmental Education
29	Broad Beach Stormwater Management	City of Malibu	Remove bottlenecks in stormdrains by replacing them with large connector pipes, create new stormdrain systems with more inlets, replace undersized catch basins, reduce spillover and runoff debris from watershed north of Pacific Coast Highway. Install BMPs to reduce impacts of urban runoff on the near shore habitat.	-	-	-	X	-	-	-	-	Flood Management
30	Malibu Clean Water – In Your Neighborhood	City of Malibu	Bring the Clean Water message close to home through the classroom. Adapt a program to meet the new state Environmental Education Initiatives for K-12 by creating a curriculum that focuses on what children can observe in their own neighborhood.	-	-	-	-	-	-	-	-	Environmental Education
31	La Costa Stormwater Management	City of Malibu	Contain and reduce spillover from Las Flores Canyon at Pacific Coast Highway, reduce runoff and debris from Las Flores Creek watershed, improve drainage facilities by constructing two new stormdrain systems with BMPs that will improve water quality.	-	-	-	X	-	-	-	-	Flood Management
32	Carbon Canyon Stormwater Management	City of Malibu	Contain and reduce spillover from Carbon Canyon watershed north of Pacific Coast Highway, collecting and implementing BMPs before discharging into Carbon Canyon Creek to prevent PCH flooding and urban runoff contamination of Santa Monica Bay.	-	-	-	X	-	-	-	-	Flood Management
33	Topanga Beach Stormwater Management	City of Malibu	Improve stormwater management and flood prevention by redirecting storm flows from Pacific Coast Highway, collecting and implementing BMPs before discharging the urban runoff.	-	-	-	X	-	-	-	-	Flood management
34	Peña/Tuna Canyon Stormwater Management	City of Malibu	Contain and reduce spillover from Tuna Canyon at Pacific Coast Highway, reduce runoff and debris from Tuna Canyon Watershed, improve culvert crossings at PCH, improve low point drainage facilities.	-	-	-	X	-	-	-	-	Flood management
35	Las Flores Creek Park On-Site Structural BMPs for capturing wet-weather runoff	City of Malibu	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects within Las Flores Creek Park to capture wet-weather runoff and reduce bacteria loading.	-	-	-	X	-	X	-	-	Environmental Education
36	Malibu Civic Center Linear Park Expansion	City of Malibu	Construction of safe, permeable walking path from Webb Way to Malibu Canyon Road along side BMPs to capture and treat stormflows before reaching existing storm drain systems leading to the ocean.	-	-	-	X	-	X	-	-	Add public trail
37	Las Flores Land Acquisition	City of Malibu	Acquisition of an undeveloped residentially-zoned lot (APN 4451-019-022) from a willing seller on Las Flores Creek within the restoration zone. The lot is just under .5 acres and will be incorporated into Las Flores Creek Park. If not purchased, the owners intend to sell and it will be developed and not accessible to the public. The creek stabilization and restoration plan has been designed by CH2M Hill in conjunction with Phillip William & Associates. Construction is proposed to begin in Summer 2007 and end in Fall 2007. The asking price was \$300,000 in 2004.	-	-	-	X	-	X	-	-	Passive Recreation and Environmental Education
38	Trancas Canyon Park On-Site Structural BMPs for capturing wet-weather runoff	City of Malibu	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at Trancas Canyon Park to capture wet-weather runoff and reduce bacteria loading.	-	-	-	X	-	X	-	-	NA
39	Las Flores Creek Restoration	City of Malibu	Las Flores Creek Restoration of degraded riparian habitat and creek bank stabilization	-	-	-	X	-	X	-	-	NA
40	Malibu Equestrian Center	City of Malibu	Installation of BMPs to capture and treat runoff from the riding rings and parking lot. Equestrian owner education about proper care and maintenance of confined animal spaces to improve water quality in coastal streams.	-	-	-	X	-	-	-	-	NA
41	Lower Yamaguchi Property Acquisition	City of Malibu	Acquisition of approximately 10 acres of mostly undeveloped land in the Malibu Civic Center. This property has a small delineated wetland system that can be linked to other projects underway in the Civic Center.	-	-	-	X	-	X	-	-	NA
42	Chamlee Park Environmental Discovery Center	City of Malibu	Construction of a nature center to provide environmental education related to the Santa Monica Mountains ecology. Current programs are limited because they operate out of a converted storage shed.	-	-	-	-	-	-	-	-	Environmental Education
43	Trancas Canyon Park Stormwater Management Project	City of Malibu	Construction of stormwater detention devices, bio-swales or other BMPs to reduce runoff from park development.	-	-	-	X	-	-	-	-	NA
44	Trancas Canyon Park Development	City of Malibu	Construction of trails, picnic areas, public parking lot and restrooms all designed with water quality and conservation practices.	-	-	-	-	-	X	-	-	NA
45	Trancas Canyon Park Sports Field Development	City of Malibu	Proposed use of synthetic turf to eliminate the need for imported water and fertilizers.	X	-	-	X	-	X	-	-	NA
46	Trancas Creek and Lagoon Acquisition	City of Malibu	Acquisition of undeveloped but degraded property from willing seller to be used for riparian habitat and wetland restoration project with public access amenities.	-	-	-	-	-	X	-	-	Public trail
47	Trancas Creek and Lagoon Restoration	City of Malibu	Bank stabilization and creek restoration along Trancas Creek north of Pacific Coast Highway.	-	-	-	-	-	X	-	-	NA
48	Trancas Creek Connector Trail Development	City of Malibu	Construction of multi-use trail with runoff BMPs from Malibu West residential community to Malibu Coastal trails and Morningview Road.	-	-	-	X	-	-	-	-	NA
49	Trancas Creek Connector Trail Acquisition	City of Malibu	A trail easement may need to be purchased to make the connection complete from Malibu West to Morningview Drive.	-	-	-	-	-	X	-	-	NA
50	Chamlee Nature Center On-Site Structural BMPs	City of Malibu	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the Chamlee Nature Center to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	NA
51	Chamlee Park On-Site Structural BMPs	City of Malibu	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the Chamlee Nature Center to capture wet-weather runoff and reduce bacteria loading.	X	-	-	X	-	X	-	-	NA
52	Las Virgenes Trail	City of Malibu	Connect Upper Las Virgenes Open Space/NPS Cheseboro Canyon Unit-Rim of the Valley Trail/DeAnza Trail with Malibu Creek State Park/Backbone Trail via L.A. County adopted Las Virgenes Trail. Co-ordinate trail construction with RCDSMM project to remove concrete from Las Virgenes Creek under the 101 and Agoura Road (partial funding available). Secure Trail right-of way from L.A. County Flood Control District, L.A. County DPW, City of Calabasas and private owners to acquire missing links and connect Las Virgenes Trail with the existing trail system.	-	-	-	-	-	X	-	-	NA
53	Malibu Lagoon Restoration and Enhancement	Coastal Conservancy, California State Parks	The lagoon is at the mouth of Malibu Creek watershed, the lagoon is owned by State Parks.	-	-	-	X	-	-	-	-	NA
54	Residential Cistern Incentive Program	County of Los Angeles Department of Public Works	The program is meant to provide an incentive to residents who install cisterns for storm water runoff.	X	-	-	X	-	-	-	-	NA
55	Public Cistern Projects	County of Los Angeles Department of Public Works	The project will include the construction of three to five large public cistern. These cisterns will store stormwater runoff and reuse it for local irrigation.	X	-	-	X	-	-	-	-	NA

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56	Small-Scale Infiltration Projects	County of Los Angeles Department of Public Works	Small projects designed to naturally retain and infiltrate storm water will be constructed throughout the North Santa Monica Bay.	-	-	-	X	-	-	-	-	-	NA
57	Ronald Reagan Equestrian Campground	Equestrian Trails Inc. & California State Parks	First Equestrian Campground in the Santa Monica Mountains National Recreation Area (SMMNRA) of over 150,000 acres where the public will be able to drive in and camp with their horses. It will benefit all 5 sub-regions.	-	-	-	-	-	-	-	-	-	NA
58	Point Dume Beach On-Site Structural BMPs for capturing wet-weather runoff	LA County Dept. of Beaches & Harbors	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at Point Dume Beach to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	-	NA
59	Zuma County Beach On-Site Structural BMPs for capturing wet-weather runoff	LA County Dept. of Beaches & Harbors	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the Zuma County Beach parking lot to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	-	NA
60	Zuma Beach Maintenance Yard On-Site Structural BMPs for capturing wet-weather runoff	LA County Dept. of Beaches & Harbors	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the Zuma Beach Maintenance Yard to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	-	NA
61	Surfrider Beach On-Site Structural BMPs for capturing wet-weather runoff	LA County Dept. of Beaches & Harbors	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the Surfrider Beach parking lot to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	-	NA
62	Topanga County Beach On-Site Structural BMPs for capturing wet-weather runoff	LA County Dept. of Beaches & Harbors	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the Topanga County Beach parking lot to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	-	NA
63	Nicholas Canyon County Beach On-Site Structural BMPs for capturing wet-weather runoff	LA County Dept. of Beaches & Harbors	Installation of cisterns, on-site storage and reuse facilities, and/or small scale capture and infiltration projects at the Nicholas Canyon County Beach parking lot to capture wet-weather runoff and reduce bacteria loading.	-	-	-	-	-	-	-	-	-	NA
64	Santa Ynez Reservoir Water Quality Improvement Project	LADWP	Construct Floating Cover and new inlet piping along with a landscape master plan for the entire site.	-	-	-	-	-	-	-	-	-	Construct new facilities and alter or remove existing facilities from water distribution system to bring reservoir into compliance with the Long Term 2 Enhanced Surface Water Treatment Rule and the Stage 2 Disinfection By Product Rule (DHS). Both rulings were promulgated early 2006 with compliance required by April 2009 for LT2 ESWTR and S2DBPR by April 2012.
65	Construct advanced treatment facilities at Tapia WRF and Rancho Las Virgenes	Las Virgenes Municipal Water District	Construction of treatment facilities to achieves 8 mg/L TN, centrate equalization, UV disinfection and groundwater remediation	-	-	-	X	12	-	-	-	-	NA
66	Constructed wetlands	Las Virgenes Municipal Water District	Rehabilitation of constructed wetlands at the confluence of Cold Creek and Malibu Creek	-	-	-	X	1	X	0	2	-	NA
67	LVMWD recycled water system expansion project 5 - Construct Parallel 24-inc	Las Virgenes Municipal Water District	Construct parallel 24-inch recycled water transmission main in Las Virgenes Road from Piuma to Mulholland Hwy	X	-	-	-	-	-	-	-	-	NA
68	Tank Farm Storage and Pumping	Las Virgenes Municipal Water District	Construct five 100AF tanks and associated pumping facilities for recycled water operational storage	-	-	-	X	-	-	-	-	-	NA
69	Westlake Filtration Plant Enhancement	Las Virgenes Municipal Water District	Expansion of Westlake Filtration Plant from 15 mgd to 18 mgd, construction of interconnection with CMWD and relocation of LV-1 MWD turnout	X	0	3360	-	-	-	-	-	-	NA
70	LVMWD recycled water system expansion project 6 Expand Recycled Water Pump	Las Virgenes Municipal Water District	Expansion of the existing recycled water pump station serving the eastern subsystem from 2,300 gpm to 4,800 gpm	X	0	7732	-	-	-	-	-	-	NA
71	LVMWD recycled water system expansion project 7 - Expand Recycled Water Res	Las Virgenes Municipal Water District	Expansion of recycled water reservoir # 2 from 45 to 100 AF	-	-	-	-	-	-	-	-	-	NA
72	LVMWD recycled water system expansion project 4 - Calabasas City Center REW	Las Virgenes Municipal Water District	Extend existing recycled water line along Mulholland Hwy east of Old Topanga Blvd to serve existing customers using potable water for landscape irrigation	-	0	24	-	-	-	-	-	-	NA
73	LVMWD recycled water system expansion project 2 - Decker Cyn. REW Facilltie	Las Virgenes Municipal Water District	Extend existing recycled water line along Westlake Blvd/State Hwy 23 to serve existing customers using potable water for irrigation, includes construction of a high lift pump station and local storage tank	-	0	294	-	-	-	-	-	-	NA
74	LVMWD recycled water system expansion project 3 - Agoura Gap REW Extension	Las Virgenes Municipal Water District	Extend existing recycled water line along Agoura Road to serve existing customers using potable water for landscape irrigation	-	0	42	-	-	-	-	-	-	NA
75	Trunk Sewer Rehabilitation Projects	Las Virgenes Municipal Water District	Rehabilitation of trunk sewers and manholes to reduce inflow and infiltration and strengthen reliability, I&I reduction estimated at 15% of avg plant flow	-	-	-	-	-	-	-	-	-	2 MGD of reduced inflow
76	Divert raw wastewater to City of LA	Las Virgenes Municipal Water District	Construct facilities that allow diversion of raw wastewater to the City of LA for that portion of the district within the LA River watershed	-	-	-	X	2	-	-	-	-	NA
77	LVMWD recycled water system expansion project 1 - TO Bled extension	Las Virgenes Municipal Water District	Extend existing recycled water line along Thousand Oaks Blvd to serve existing customers using potable water for landscape irrigation	-	0	251	-	-	-	-	-	-	NA

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78	LVMWD recycled water system expansion project 8 Convert Las Virgenes Reserv	Las Virgenes Municipal Water District	Construct 22,500 AF potable water reservoir with associated transmission and treatment facilities allowing conversion of the existing 9,000 AF Las Virgenes reservoir to recycled water storage	-	-	-	-	-	-	-	-	-	9000AF of REW seasonal storage and increased potable water storage of 22,500 AF
79	Designer Bottled Recycled Water	Las Virgenes MWD & Triunfo SD	Designer bottled water is a direct reuse project with powerful education implications, improving public acceptance for larger indirect or direct reuse projects.	X	-	-	X	-	-	-	-	-	Leads to ultimate maximum water conservation with on the order of 1,700 kWh/af (imported ~2,500kWh/af, seawater ~4,400 kWh/af.
80	Latigo Shores Subsurface Flow Wetlands	Los Angeles County Department of Public Works	Utilize vacant County Beaches and Harbors land for treatment of creek flows through subsurface flow wetland system.	-	-	-	-	-	-	-	-	-	NA
81	Marie Canyon Drain Retrofit/Peracetic Acid/bacteriacides	Los Angeles County Department of Public Works	Provide upstream storage and diversion, with peracetic acid treatment and discharge back into Marie Canyon Drain	-	-	-	-	-	-	-	-	-	NA
82	SEPULVEDA FEEDER INTERCONNECTION	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS, WATER WORKS DISTRICT 29- MALIBU	The water system improvements include the addition of 1,800 linear feet of 30-inch diameter water main and a pressure reducing station. The primary objective of this project is to introduce a new primary source of supply, to increase system reliability and provide redundancy to the District in case of emergency outages.	-	-	-	-	-	-	-	-	-	NA
83	Corral Ordinance	Malibu Creek Watershed Council -- Conceptual Project List	Some stakeholders suggested creating a corral ordinance with setbacks from creeks. As of yet, this is a conceptual project with no input from members of the equestrian community.	X	-	-	-	-	-	-	-	-	NA
84	Outreach + Research Project to Keep Cats and Dogs Indoors and/or On Leashes	Malibu Creek Watershed Council -- Conceptual Project List	Project has the potential to reduce bacteria and nutrient issues; project can improve protection of native species upon whom domestic pets predate, such as, via cats, songbirds and lizards, and, via dogs, such as rabbits and bigger prey. A parallel research project demonstrating the actual real impacts of fecal matter of local cats and dogs on the watershed and upon native species, would support this effort.	X	-	-	X	-	X	-	-	-	NA
85	Horse Community: Implement Current Regulations	Malibu Creek Watershed Council -- Conceptual Project List	Currently, a wide variety of laws from the county, the cities, the health department and more define how horses can and cannot be kept within the Santa Monica Mountains. Many of these rules are overlooked by some horseowners. Stakeholders requested that current laws be implemented.	X	-	-	-	-	-	-	-	-	NA
86	Medea Creek: Assess Household Urban Runoff	Malibu Creek Watershed Council -- Conceptual Project List	Stakeholders would like to understand potential pollution issues at Medea Creek; a study would clarify things and suggest an appropriate course of action.	X	-	-	-	-	-	-	-	-	NA
87	County Environmental Review Board -- Revise zones to make them more sensitive to habitat/natives	Malibu Creek Watershed Council -- Conceptual Project List	Goal would be to increase viable habitat.	-	-	-	X	-	X	-	-	-	Potential to improve scenery.
88	Fire Zones & Nativescaping -- Mountains Restoration Trust Project	Malibu Creek Watershed Council -- Conceptual Project List	This program received is great -- stakeholders would like to see an expanded version of this throughout the Santa Monica Mountains.	-	-	-	X	-	X	-	-	-	NA
89	Riparian Canopy in Developed Areas	Malibu Creek Watershed Council -- Conceptual Project List	Project would entail partnering with willing HOAs and willing individual property owners to increase native riparian canopy; possible sponsors might include NRCS, the RCDSMM, Heal the Bay, Baykeeper and more.	-	-	-	X	-	-	-	-	-	Beautifies neighborhoods!
90	Biofiltration as primary pre-drain BMP	Malibu Creek Watershed Council -- Conceptual Project List	Project would request that cities and county implement biofiltration as the preferred BMP at the mouth of each stormdrain.	X	-	-	X	-	X	-	-	-	NA
91	Waterless Wash Research Project	Malibu Creek Watershed Council -- Conceptual Project List	Project would entail basic research to determine if waterless cars are a best management practice or a worst management practice; information would be shared with cities, agencies and counties to disseminate more widely.	-	-	-	X	-	-	-	-	-	NA
92	Illegal Drains	Malibu Creek Watershed Council -- Conceptual Project List	Baykeeper has done a masterful job of detailing illegal discharges along the beach. Project would entail mapping all discharge points, pinpointing owners and preventing illegal discharges.	X	-	-	X	-	-	-	-	-	NA
93	Solstice Canyon Composting Toilets Research Project	Malibu Creek Watershed Council -- Conceptual Project List	State Parks and others expressed interest in the functionality of the new composting toilets at Solstice Canyon. How much did they cost? What are operations and management costs? How often are they cleaned? Would NPS do this again?	X	-	-	X	-	X	-	-	-	NA
94	SOKA -- Protect historic buildings	Malibu Creek Watershed Council -- Conceptual Project List	Stakeholders expressed concerns over rapid dismantling of old buildings on site at the SOKA properties currently managed by the Santa Monica Mountains Conservancy. Perception of some stakeholders was that these could be historic sites and these stakeholders expressed concern that deconstruction could be occurring without permitting or without consensus from involved stakeholders and the community.	X	-	-	-	-	X	-	-	-	NA

North Santa Monica Bay Subregion Projects													
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description	
114	Cold Creek Restoration	Mountains Restoration Trust	A culvert from Mulholland Highway draining into Cold Creek created a arroyo that is over 6-feet deep and has caused bank failure on Cold Creek. NRCS plans have been completed and the project is on hold until an adjacent property is acquired.	-	-	-	-	-	X	-	-	NA	
115	Cold Creek Riparian Restoration	Mountains Restoration Trust	Non-native invasive species are removed from riparian, grassland and upland areas of the 1300-acre Cold Creek Preserve, and where feasible are replaced by native plant species. Target species include yellow star thistle, Spanish broom, tree of heaven, rigput and periwinkle.	-	-	-	-	-	X	-	-	NA	
116	Tuna Canyon Habitat Restoration	Mountains Restoration Trust	The final 3-mile reach of Tuna Canyon Creek passes through heavy infestations of non-native invasive weeds that impact the water before it flows into Santa Monica Bay. Two projects are essential to the life of the creek: 1. repair of a culvert-made arroyo that carries large volumes of road-runoff, accumulated erosive materials, and has caused slope and bank failure, and 2. invasive species including heavy infestations of plant-smothering Cape ivy and a minimum of 83 blue-gum eucalyptus trees with an estimated transpiration rate of 85 gallons of water per day per day and that have crowded out native riparian vegetation.	-	-	-	-	-	X	-	-	NA	
117	La Sierra Preserve Habitat Restoration	Mountains Restoration Trust	La Sierra Preserve contains five blue-line stream with riparia and upland habitat ranging from pristine to disturbed. This project will enhance and restore riparian wetland and habitat and control the invasive plants within the federally-listed endangered Pentachaeta lyonii.	-	-	-	-	-	X	-	-	NA	
118	Malibu Creek Enhancement	Mountains Restoration Trust	Complete the removal of Arundo donax and other non-native invasive plant species from approximately 250 acres around the final 4.5-mile reach of Malibu Creek. A project started in 2001, completely eradicated or displayed significant mortality (greater than 80 percent) to the 414 A. donax patches and this project aims to control the final 15-20% of patches that have retained viable canes.	-	-	-	-	-	X	-	-	NA	
119	Modification of Culverts within the Cold Creek Preserve	Mountains Restoration Trust	The project would evaluate the effects of all road culverts and drains on the habitat, drainages, ephemeral, intermittent and year-round water courses within the Cold Creek Preserve and develop plans for the modification of culvert/drains to reduce negative impacts to natural resources, to reduce rate of runoff, reduce erosion and enhance riparian zones.	-	-	-	-	-	X	-	-	NA	
120	Cold Creek Riparian Acquisition	Mountains Restoration Trust	The Cold Creek Restoration Plan approved by the State Coastal Conservancy acquires properties that support the creek and riparian attributes of Cold Creek, a tributary of Malibu Creek. Of the 1244 acres planned for acquisition only 146 acres remain to be acquired.	-	-	-	-	-	-	-	-	NA	
121	La Sierra Riparian Acquisitions	Mountains Restoration Trust	Acquisition of approximately 500 acres of undisturbed watershed supporting 6-7 tributary streams of La Sierra Creek in the Malibu Creek watershed.	-	-	-	-	-	-	-	-	NA	
122	Las Flores Canyon Restoration and Water Quality Improvements (Biofiltration and Infiltration)	NA	Restoration of Los Flores Creek and acquisition of adjacent properties for biofiltration and infiltration prior to discharge to the creek.	-	-	-	-	-	-	-	-	NA	
123	Malibu / Las Virgenes Model	NA	A detection and education program in Malibu, modeled on the program used by Las Virgenes. Which tracks over use of water and educates the user to best practices procedures. To further emulate Las Virgenes is the establishment of a reclaimed water project in the Civic Center, so that businesses and residents in the area can use recycled water.	X	1	100	-	-	-	-	-	NA	
124	Malibu Lake Sediment Reduction and Control Project	NA	Control sediment with upstream catch basins. Sand sediment downstream to model natural occurrence. Remove sediment to deepen lake in anticipation of using as rearing area for broad stock of steelhead. Continuous maintenance of basins with sediment going to beaches, farms, construction site, etc.	-	-	-	-	-	X	-	-	NA	
125	Malibu Lake Sewer and Street Project	NA	The project involves construction of a sewer system of over one mile in length with pump and lift stations which will serve 60 % of residents around the lake presently on failing septic systems. This project will also result in new roads with improved drainage routes and increased use of lake water for landscape irrigation.	-	-	-	X	-	-	-	-	NA	
126	Trancas Habitat and Connectivity Restoration	National Park Service	Trancas Canyon has been identified as potential steelhead habitat. This creek has a year-round flowing creek with healthy riparian habitat. This watershed is primarily within the public ownership of the National Park Service, however barriers such as culverts prevent upstream steelhead migration. The National Park Service would like to work with residents and the City of Malibu to retrofit the culverts to facilitate fish passage. Additional on-going work includes a crayfish eradication study (Pepperdine University) on the impacts of California Newt. Cooperators would include: Caltrans, City of Malibu, California Fish and Game, and NOAA Fisheries.	-	-	-	-	-	X	0	100	NA	
127	Restore Riparian and Steelhead Habitat in Zuma Canyon	National Park Service	Restore riparian habitat and remove barriers to steelhead movement along Zuma Creek in Zuma Canyon. Zuma Creek was ranked highly by the Santa Monica Mountains Steelhead Assessment as having high importance to conservation of southern California steelhead trout (a federally endangered species). This project will restore riparian habitat and steelhead habitat on NPS property and work with other landowners in the watershed to improve steelhead habitat (City of Malibu, L.A. county beaches and harbors).	-	-	-	-	-	X	0	100	habitat restoration for endangered species.	
128	Lower Malibu Steelhead Riparian Habitat Restoration	National Park Service, California State Parks, Mountains Restoration Trust	Malibu Creek is one of only a few creeks in the Santa Monica Mountains with actively spawning steelhead trout (an endangered species). Numerous impacts to these species include barriers to migration, exotic predators, water quality and non-native riparian habitat. Considerable interest and effort has been given to improving water quality and barrier removals. The National Park Service and its cooperators would like to expand these efforts to include the restoration of native riparian habitat. Previous efforts to remove exotic vegetation in this watershed have been successful, the National Park Service wishes to continue these efforts.	-	-	-	-	-	X	10	100	Restoring endangered steelhead habitat	
129	Gillette Ranch	National Park Service, Santa Monica Mountains Conservancy, California State	Use reclaimed water for riparian and wetland habitat restoration. Increase recreational opportunities and educational opportunities.	-	-	-	-	-	X	-	-	use reclaimed water, prevent water going into Malibu Creek.	
130	Paramount Ranch – Medea Creek Restoration and Water Conservation	National Park Service, Santa Monica Mountains Conservancy, California State	Restore riparian habitat along Medea Creek, reduce water use at the Paramount Ranch site through use of reclaimed water, conversion of lawn to native grasses, and other water storage techniques.	-	-	-	-	-	X	0	5	Reducing water use	
131	Solstice Creek Steelhead Access	National Recreation Area, Caltrans, City of Malibu	NA	-	-	-	-	-	-	-	-	NA	
132	Nicholas Canyon Watershed Acquisition	NatureTrust	Nicholas Canyon Watershed includes Leo Carrillo State Park.	-	-	-	-	-	-	-	-	NA	
133	Million Points of Stormwater Treat&Recharge	Planning Agencies & Road Building Agencies	Convert all our "humped-up" road medians, center islands, parking lot greenery spots, etc. into stormwater detention depressions.	X	-	-	X	-	-	-	-	Leads to low energy, on order of 300 kWh/af water capture.	

North Santa Monica Bay Subregion Projects

Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space		Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
192	Weather-Based Irrigation Controller Program 2	West Basin MWD	This project proposes to install Weather-Based Irrigation Controllers (WBICs) to reduce the amount of water that is used for landscape irrigation.	-	-	-	-	-	-	-	-	Conservation
193	Landscape Irrigation Classes 2	West Basin MWD	This project proposes to offer landscape irrigation classes to the residents and customers within West Basin MWD's service area to educate them about using less water and native plants instead of non-native, exotics that require much more water for survival.	-	-	-	-	-	-	-	-	Education
194	Synthetic Turf Program 4	West Basin MWD	West Basin hopes to expand Metropolitan Water District's Synthetic Turf Program by implementing it within its own service area.	-	-	-	-	-	-	-	-	Conservation
195	Weather-Based Irrigation Controller Program 1	West Basin MWD	This project proposes to install Weather-Based Irrigation Controllers (WBICs) to reduce the amount of water that is used for landscape irrigation.	-	-	-	-	-	-	-	-	Conservation
196	Complete Restroom Retrofits Location 1	West Basin MWD	This program provides free hardware devices for commercial restrooms including high-efficient toilets, waterless urinals, and faucets.	-	16	8	-	-	-	-	-	NA
197	Conductivity Controller Incentives 1	West Basin MWD	This is a new program that provides prescriptive incentives for installation of conductivity and pH controllers. Funding for this program will allow the District to hire a vendor to educate commercial owners about the rebates available for equipment that conserves water. The benefits would include a reduction of wastewater generated, benefiting the LA County Sanitation Districts, and potable water used. Partners may include MWD, LADWP, and the Sanitation Districts.	-	90	45	-	-	-	-	-	NA
198	High- Efficiency Toilet Direct Installation	West Basin MWD	This program provides free installation of high-efficiency toilets to the multi-family sector, which includes apartment complexes, condos, senior apartments, and other residential multi-family facilities.	-	5	2	-	-	-	-	-	NA
199	Industrial Process Improvement Program	West Basin MWD	This is a new program that will build on Metropolitan Water District's existing program to provide customized incentives based upon the amount of water saved. This program will target industrial processes such as food processing, textiles, fabricated metals, electronics and industrial laundries.	-	130	65	-	-	-	-	-	NA
200	Irrigation Equipment/Water Budget Program	West Basin MWD	This program offers landscape audits and customized incentives for matching heads, pressure regulators and weather-based irrigation controllers for landscape customers including multi-family, commercial and institutional and provides water audits on the landscape sites. The water budgets will be created and the budget and a listing of recommended equipment upgrades will be given to the large landscape customers. The target market will be large landscape customers, specifically home owner associations.	-	58	29	-	-	-	-	-	NA
201	Laundromat Retrofits Program	West Basin MWD	This is a new program that offers substantial incentives from multiple utilities (Gas Company, Edison, and MWD) to replace non-efficient washers and dryers with more efficient devices. Some utilities currently provide funding for energy-efficient washer machines, so additional funding will expand the program to allow for more rebate incentives.	-	10	5	-	-	-	-	-	NA
202	Save-A-Buck Program	West Basin MWD	The Save-A-Buck Commercial, Industrial and Institutional (CII) program provides rebates to businesses, schools and other facilities for commercial clothes washers, waterbrooms, cooling tower conductivity controllers, pre-rinse spray nozzles, x-ray machine recirculating devices and commercial toilets and urinals. Funding for this program would be for conducting workshops, providing more rebate incentives (marketing materials), and hiring an auditor to perform water and energy audits for businesses, schools and other facilities. This is a new program through the partnership between the District and the South Bay Cities Council of Governments. It can be expanded to include other partners such as the Westside Cities COG.	-	62	42	-	-	-	-	-	NA
203	Residential High-Efficiency Clothes Washer Rebates	West Basin MWD	This program involves providing rebates to residents and businesses with high- efficiency clothes washer rebates. This program has both water and energy savings components. MWD currently provides a rebate that will end in December 2006. This program would be kick started thereafter, but before HECWs are mandated, and provide 2000 rebates per year at approx. \$250,000	-	36	18	-	-	-	-	-	NA
204	Smart Controller Distributions	West Basin MWD	This is a new program that offers free smart controllers to single-family landscapes to more-efficiently irrigate landscapes. There is funding currently budgeted in the District's Conservation Budget for Fiscal Year 2006-07 for installation of the devices. This program would provide free product distributions at events similar to toilet distributions and potential partners include MWD and DWR.	-	10	5	-	-	-	-	-	NA
205	Supermarket Retrofits	West Basin MWD	This is a new program that will provide and install free pre-rinse spray valves, high-efficiency toilets, wireless urinals, and waterbrooms for supermarkets and food stores. The District would partner with MWD.	-	12	6	-	-	-	-	-	NA
206	Conductivity Controller Incentives Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	45	0	-	-	-	-	-	NA
207	High-Efficiency Toilet Rebates Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	2	0	-	-	-	-	-	NA
208	Industrial Process Improvement Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	65	0	-	-	-	-	-	NA
209	Irrigation Equipment/Water Budget Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	29	0	-	-	-	-	-	NA
210	Laundromat Retrofits Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	5	0	-	-	-	-	-	NA
211	Pre-Rinse Spray Valve Installs Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	42	0	-	-	-	-	-	NA
212	Residential ULFT/HECW Rebates Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	18	0	-	-	-	-	-	NA
213	Save-A-Buck CII Incentives Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	31	0	-	-	-	-	-	NA
214	Smart Controller Distributions Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	5	0	-	-	-	-	-	NA
215	Targeted High-Efficiency Toilet Distributions Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	38	0	-	-	-	-	-	NA

Upper Los Angeles River Subregion Projects

Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
34	Wildwood Canyon Park	City of Burbank	The proposed recycled water pipeline extension will distribute gray water to the Wildwood Canyon Park, a California State Park. This pipeline extension will be approximately 4,000 feet long, and 6 inches in diameter. This new pipeline will connect to the existing 12-inch diameter pipeline in the DeBell Golf Course. This project may also require the installation of a booster pump to irrigate the upper portion of the park.	X	15	0	-	-	X	-	-	<p>The most significant benefit of this project is it has the potential to increase the amount of potable water available to the city by about 15 AFY, which decreases an equal quantity of State Project Water needed, as there is a 1:1 ratio of recycled versus potable water (i.e. for every acre-foot of recycled water used, an acre-foot of State Project Water does not need to be purchased).</p> <p>The Park that will be served by this new pipeline is currently uses approximately 15 AFY of potable water to irrigate their landscaping. This site will benefit by having a more reliable source of potable water by using less of it, and will benefit from using recycled water because it is less expensive and its quantity is not impacted as much during drought conditions.</p> <p>The region will also benefit, because Burbank's reliance upon imported water sources will be reduced, making more water available for the region.</p>
35	Studio District	City of Burbank	<p>The "Studio District" is comprised of a series of studio facilities: The Warner Brothers Studios, Disney Studios, NBC Studios, and Foto Kern, which is involved in the film processing from the studios and from individuals. The studios will be the largest users of the recycled water in this area (Studio District); however, additional customers will also benefit from the new recycled water pipeline. These customers include St. Joseph Hospital, four schools, four parks and a library.</p> <p>The proposed project will consist of a pipeline that will begin with a 15,200 feet of a sixteen inch main line and 4,000 feet of a combination of 4 and 6 inch extensions to the customers. No public booster pump station will be required. The proposed alignment for the pipeline was developed to avoid having to place pipelines along Olive Avenue, which is a very heavily traveled road.</p>	X	244	0	-	-	X	303	0	<p>The most significant benefit of this project is it has the potential to increase the amount of potable water available to the city by about 244 AFY, which decreases an equal quantity of State Project Water needed, as there is a 1:1 ratio of recycled versus potable water (i.e. for every acre-foot of recycled water used, an acre-foot of State Project Water does not need to be purchased).</p> <p>The Studio District customers currently use approximately 244 AFY of potable water to irrigate their landscaping and to process film. The Studio District customers will benefit by having a more reliable source of potable water by using less of it, and will benefit from using recycled water because it is less expensive and its quantity is not impacted as much during drought conditions.</p> <p>The region will also benefit, because Burbank's reliance upon imported water sources will be reduced, making more water available for the region.</p>
36	Robert Ovrum Park	City of Burbank	<p>The proposed recycled water pipeline extension will distribute gray water to the Police/Fire building, Ovrum Park, Miller Park, and landscaping along the South San Fernando Road. The total demand for these four customers is estimated to be a minimum of 14 AFY, with a peak demand of about 40 AFY. However, Home Depot and Carmax are also in the vicinity of this new extension.</p> <p>The new recycled water pipeline extension will be approximately 5,700 feet long, and 6 inches in diameter. This area has already been plumbed to accept recycled water; therefore, the extension can be completed and operating quickly. In addition to the pipeline, this project may also include the installation of a booster pump station to distribute the recycled water to the Police/Fire facility.</p>	X	14	0	-	-	X	12	0	<p>The most significant benefit of this project is it has the potential to increase the amount of potable water available to the city by a minimum of 14 to 40 AFY, which decreases an equal quantity of State Project Water needed, as there is a 1:1 ratio of recycled versus potable water (i.e. for every acre-foot of recycled water used, an acre-foot of State Project Water does not need to be purchased).</p> <p>The sites that will be served by this new pipeline currently use approximately 14 to 40 AFY of potable water to irrigate their landscaping. These sites will benefit by having a more reliable source of potable water by using less of it, and will benefit from using recycled water because it is less expensive and its quantity is not impacted as much during drought conditions.</p> <p>The region will also benefit, because Burbank's reliance upon imported water sources will be reduced, making more water available for the region.</p>

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
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37	Reclamation Equalization Basin	City of Burbank	<p>Burbank's existing recycled water system delivers as much as 2.5 mgd of recycled water. This facility is subject to a diurnal cycle, where night flow rates are over 50% lower than daytime flows. The Equalization Basin will eliminate the existing diurnal pattern of influent flow by storing the daytime peak flows to be treated at night. Therefore, the daytime flow rates of 12 to 15 mgd and nighttime lows of 2 to 5 mgd can be redistributed and allow the existing process units to operate more reliably and efficiently and provide a constant recycled water supply of 9 to 12 mgd. The proposed Project will include the construction of an underground concrete tank which can hold 1.4 million gallons and a secondary clarifier. The project includes all of the associated piping and pumps to allow for the operation of the equalization basin.</p> <p>Readiness to Proceed It is anticipated that construction will begin within six months of securing the necessary funds.</p>	X	3900	0	X	12.5	X	323	0	<p>The water supply for the city and the region will benefit by decreasing the reliability on imported and/or groundwater resources; improving the reliability and quality of recycled water; and increasing the reliability to customers where irrigation is critical (e.g. golf courses, parks, cemeteries, landfills, and where the customer may be subject to reduced potable water deliveries during drought periods). The Bay-Delta Estuary System will also benefit because it has the potential to reduce the demands for water from this system.</p> <p>Power reduction benefits will also be realized, because it will allow for off-peak pumping of recycled water. The project will also allow Burbank to reduce the amount of excess wastewater (potentially up to 4 MGD) that is diverted to the City of Los Angeles. This reduction of wastewater flow to Los Angeles will aid in preventing sewage overflows and will reduce the pollutant loading to the Santa Monica Bay from the Hyperion Treatment Plant.</p>
38	Valhalla System Extension	City of Burbank	<p>The proposed project will connect a new 2,000 foot pipeline to extend the service line to a new booster pumping station that will be installed at Ralph Foy Park to provide adequate pressures to Valhalla Memorial Park and other prospective nearby customers, and all the necessary supportive components required to operate the system.</p> <p>Project Readiness It's anticipated this project will begin in the Summer of 2008, after the reclamation plant is upgraded to include an equalization basin.</p>	X	455	0	-	-	X	105	0	<p>This project has the potential to increase the amount of potable water available to the city by 300 to 455 AFY and decrease an equal quantity of State Project Water needed, as there is a 1:1 ratio of recycled versus potable water. The Valhalla Memorial Park uses between 300 to more than 400 AFY of potable water to irrigate their grounds. Valhalla will benefit by having a more reliable source of water and better quality, since the water currently used and pumped by Valhalla from an on-site well. Many of the new customers proposed to receive the recycled water as a result of this project would also benefit from decreased water costs and have a more reliable water source even during drought conditions. The region will benefit, because Burbank's reliance upon imported water sources will be reduced, making more water available for the region.</p>
39	Groundwater Replenishment Project	City of Burbank	<p>A 48" dia. Replenishment Water Service Connection will be constructed at the east portal of the MWD San Fernando tunnel. Approximately 1,050 feet of pipeline, control valves, metering and telemetry equipment, and an energy dissipation structure at the discharge. Water will flow by gravity from the MWD connection through the pipeline and into the Pacoima Wash Channel. The water will be diverted downstream into the Pacoima Spreading Grounds and percolates into the San Fernando Basin. The water will be extracted from the San Fernando Basin by the existing wells that supply groundwater to the Burbank Operable Unit (BOU).</p> <p>Readiness to Proceed Burbank has the necessary agreements in place to construct the new service connection and to divert the water to the spreading basin to recharge the San Fernando Basin. This project is anticipated to be completed within six months of securing funding.</p>	X	13000	0	-	-	-	-	-	<p>This project will contribute towards the restoration of an aquifer that has been contaminated with Volatile Organic Compounds (VOC). Restoring the portions of the San Fernando Basin (SFB) contaminated with VOCs will eventually lessen the demand for imported water for the cities of Burbank, Glendale and Los Angeles, because all of these cities extract water from SFB. A restored local aquifer that could better support conjunctive use and offset importation of State Water Project water also benefits the Bay-Delta and Cal-Fed objectives by reducing the need for imported water when demand is at its highest. This project would also be beneficial in that it prevents the VOC contaminant plume from migrating to where it would reach the Los Angeles River and negatively impact the stream habitat.</p> <p>The City of Burbank will benefit by increasing its water supply and improving the management of its water credits to promote sufficient supplies of water are available during drought periods.</p>
40	DCC 23	City Of Calabasas	<p>DC - 23 - Revegetate exposed soils - probably private property, but City may have flood control maintenance easement. Small area of base soil on channel upper bank - dry site plant xeric plants and re-seed, straw or coir wattles Allow \$8,000 - This area is a low priority, instability is probably associated with head of canyon fill - opposite Oakridge Terrace.</p>	-	-	-	X	-	X	-	-	<p>DCC 23 will reinforce bank stability and restore habitat along the banks. Habitat and flood conveyance will be improved.</p>
41	DCC 22	City Of Calabasas	<p>DC-22 - Stabilize headcut - Private property, but City probably has maintenance easement. Low priority, heavily wooded section w/very poor construction access - did not see site, saw eroded area w/ binoculars from Mulholland Drive. Because of poor construction access, try to stabilize headcut w/fiber rolls and willow cutting. Assume 200 l.f. of 2 fiber rolls @ = 400 l.f. at \$40/l.f. = \$16,000 plus \$3,000 observation = \$19,000.</p>	-	-	-	X	-	X	-	-	<p>DCC 22 will stabilize the bank and prevent erosion but the project is a low priority and has very poor construction access.</p>
42	DCC 17	City Of Calabasas	<p>Site 17 is roughly .5 acre (400'x50') in size, on the W side of Old Topanga Road, 1/4 mile S of its intersection with Mulholland Hwy. Streambed width approx. 10 feet. Flow rather stagnant. East bank covered with Vinca major. Excellent stream-side shading of willow, coast live oak, walnut. Debris on southwest area of the bank, including an old out-building.</p>	X	-	-	X	-	X	-	-	<p>At DCC 17, habitat will be moderately improved and aesthetics will be slightly improved.</p>
43	DCC 15	City Of Calabasas	<p>Site 15 is roughly .1 acre in size, on the N side of Mulholland Hwy, just W of its intersection with Old Topanga Canyon Road S. The area contains a concrete drainage ditch paralleling the road. A clear area roughly 50'x50' surrounds it. The adjacent creek supports healthy riparian forest.</p>	X	-	-	X	-	X	-	-	<p>At DCC 15, water quality and habitat will be moderately improved. Groundwater recharge and aesthetics will be slightly improved.</p>

Upper Los Angeles River Subregion Projects												
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				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
44	DCC 16	City Of Calabasas	Site 16 is roughly .25 acre (130'x50') in size, on the S side of Mulholland Hwy, just W of its intersection with Old Topanga Canyon Road S. The project area is a deeply channelled segment of creek with riprap side slopes at roughly 2:1 slope, 20' long. It is flanked by a horse riding arena on one side and a dirt parking area on the other. In-stream habitat consists of very good growth of narrow-leaved cattails, willows, etc. However, some growth of castor beans, exotic vine species on west side. Area appears to be stable. The site would benefit from increased plantings and a planted buffer to intercept sediments and pollutants from adjacent uses.	X	-	-	X	-	X	-	-	At DCC16, water quality will be greatly improved. Habitat and aesthetics will be moderately improved.
45	DCC 13	City Of Calabasas	Site 13 is roughly .5 acre in size, on the SE side of Mulholland Hwy, just S of its intersection with Old Topanga Canyon Road. Creek supports large overhanging trees, Mule fat, large coast live oak, willow. Existing restoration efforts are in progress to the west of the drainage. Restoration efforts underway on the west bank (by MRT). Moderate opportunity for expansion of creek. A better site for restoration may be slightly upstream from DC-13, across the road crossing of the stream. Enhancement of riparian vegetation and stream shading may be accomplished there.	X	-	-	X	-	X	-	-	At DCC 13, habitat and aesthetics will be moderately improved. Water quality will be slightly improved.
46	DCC 10B	City Of Calabasas	DCC 10B - Fish passage barrier. Questa Engineering believes Mountain Restoration Trust may already be involved in the project. Nonetheless Questa suggests allowing \$20,000 for design and inspection of minor barrier.	X	-	-	X	-	X	-	-	DCC 10B, 11, 12, 18, 20 will remove fish passage barriers, stabilize headcut and banks, repair damaged culvert, remove concrete channel sements/ restore wetlands, and monitor channel for further incision. Habitat, water quality, and flood conveyance should all be improved.
47	DCC 11	City Of Calabasas	DCC 11 – Stabilize Headcut. Upon inspection, Questa did not clearly see the channel failure. The channel is fairly small in this area. The failure appears to be 50 feet in length. So Questa assumes that 50 l.f. of Level 2 bank restoration @ \$250/l.f. = \$12,500. \$12,500 + \$1,500 field inspection = \$14,000 total. Planted rock toe. O&M – Site maintenance = \$5,000/year – 3 years = \$15,000	X	-	-	X	-	X	-	-	DCC 10B, 11, 12, 18, 20 will remove fish passage barriers, stabilize headcut and banks, repair damaged culvert, remove concrete channel sements/ restore wetlands, and monitor channel for further incision. Habitat, water quality, and flood conveyance should all be improved.
48	DCC 12	City Of Calabasas	DCC 12 - Redesign culvert crossing. The site is on private property owned by the non-profit Mountain Restoration Trust at headwaters corner. Notes by Questa: "Partially collapsed 54" CMP culvert, protected by stacked concrete slabs, partial flow blockage. Replace with 10' wide x 30' pre-fabricated steel bridge. Typical bridge, including abutments, and installation is \$1,000/ft. so \$30,000 - allow \$2,500 inspection. Total \$32,500."	X	-	-	X	-	X	-	-	DCC 10B, 11, 12, 18, 20 will remove fish passage barriers, stabilize headcut and banks, repair damaged culvert, remove concrete channel sements/ restore wetlands, and monitor channel for further incision. Habitat, water quality, and flood conveyance should all be improved.
49	DCC 14	City Of Calabasas	Site 14 is roughly .75 acre in size, on the North side of Mulholland Hwy, near the intersection with Old Topanga Canyon Road, on MRT property. MRT has conceptual plans for future uses of the area, which will require planning coordination. The exact extent of the masterplan's intentions for this project is unclear. We are assuming a substantial reconstruction to near-original creek morphology is desired.	X	-	-	X	-	X	-	-	At DCC 14, the habitat will be greatly improved. Water quality, flood conveyance, ground-water recharge, and aesthetics will all be moderately improved. And public safety will be slightly improved.
50	DCC 21	City Of Calabasas	DC – 21 – Remove concrete bottom - ± 200 l.f. of concrete grouted channel within Viewpoint Primary School. Tough job – high risk of flooding and channel incision if concrete is removed. Questionable Feasibility – would need to convince school a stable channel can be built, and do work over summer. 200 l.f. x \$300/l.f. = \$60,000. Plus 4 days observation at \$1500/day = \$6,000 for total of \$66,000. Probably replace concrete with open cell planting blocks, and add flood wall at top of bank. High design, communication, and permitting costs.	-	-	-	X	-	X	-	-	DCC 21 will naturalize the creek bed but at high risk of flooding and channel incision.
51	DCC 20	City Of Calabasas	DCC 20 - Monitor channel for further incision. The site is on Mountain Restoration Trust and City/State Parks land. There is some field evidence of incision. A complete topographic bed profile and cross-section survey is needed using 150' transect spacings and digital photos to compare to old records. Questa estimates this project will cost \$8,000 for the survey effort, including periodic surveys at cross sections and \$5,000 O&M. for resurvey.	X	-	-	X	-	X	-	-	DCC 10B, 11, 12, 18, 20 will remove fish passage barriers, stabilize headcut and banks, repair damaged culvert, remove concrete channel sements/ restore wetlands, and monitor channel for further incision. Habitat, water quality, and flood conveyance should all be improved.
52	MC 20	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	NA
53	MC 21	City Of Calabasas	MC – 21-23 – Stabilize Headcut, Channel Incisions – This series of 3 projects are located on upper McCoy Creek above the Calabasas Golf and Country Club. Creek channel is apparently private in this area with difficult access through a gated community. The work would involve repair of some bank erosion by placing willow planted rock toe at 2 locations, and extending the rock across the channel bottom to create no higher than 12" above channel invert grade control. Assuming total of 120 l.f. of type 3 channel protection (willow planted rock toe) at \$250/l.f. = \$30,000. Two rock grade control structures at \$5,000 each = \$10,000. So total work is \$40,000. Allow 15% inspection, or \$6,000. So total construction, inspection and field engineering is estimated to be \$46,000. Mobilization/access is poor.	-	-	-	X	-	X	-	-	MC 21,22,23 will stabilize bank erosion and naturalize vegetation on the banks.
54	MC 22	City Of Calabasas	MC – 21-23 – Stabilize Headcut, Channel Incisions – This series of 3 projects are located on upper McCoy Creek above the Calabasas Golf and Country Club. Creek channel is apparently private in this area with difficult access through a gated community. The work would involve repair of some bank erosion by placing willow planted rock toe at 2 locations, and extending the rock across the channel bottom to create no higher than 12" above channel invert grade control. Assuming total of 120 l.f. of type 3 channel protection (willow planted rock toe) at \$250/l.f. = \$30,000. Two rock grade control structures at \$5,000 each = \$10,000. So total work is \$40,000. Allow 15% inspection, or \$6,000. So total construction, inspection and field engineering is estimated to be \$46,000. Mobilization/access is poor.	-	-	-	X	-	X	-	-	MC 21,22,23 will stabilize bank erosion and naturalize vegetation on the banks.
55	MC 23	City Of Calabasas	MC – 21-23 – Stabilize Headcut, Channel Incisions – This series of 3 projects are located on upper McCoy Creek above the Calabasas Golf and Country Club. Creek channel is apparently private in this area with difficult access through a gated community. The work would involve repair of some bank erosion by placing willow planted rock toe at 2 locations, and extending the rock across the channel bottom to create no higher than 12" above channel invert grade control. Assuming total of 120 l.f. of type 3 channel protection (willow planted rock toe) at \$250/l.f. = \$30,000. Two rock grade control structures at \$5,000 each = \$10,000. So total work is \$40,000. Allow 15% inspection, or \$6,000. So total construction, inspection and field engineering is estimated to be \$46,000. Mobilization/access is poor.	-	-	-	X	-	X	-	-	MC 21,22,23 will stabilize bank erosion and naturalize vegetation on the banks.

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space		Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
56	MC 14	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	MC 13-18 will improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, and create/restore wetlands.
57	MC 15	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	MC 13-18 will improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, and create/restore wetlands.
58	MC 16	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	MC 13-18 will improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, and create/restore wetlands.
59	MC 17	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	MC 13-18 will improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, and create/restore wetlands.
60	MC 18	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	MC 13-18 will improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, and create/restore wetlands.
61	MC 19	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	NA
62	MC 20	City Of Calabasas	MC20 is vaguely defined in the master plan as "create/restore wetland." Ecologically speaking, there is ample opportunity to restore wetlands in this area, but given the constraints of the existing golf course, we recommend concentrating on a .1 acre area just upstream of the culvert under Parkway Calabasas. The area currently has scattered riprap and appears to receive significant sedimentation, which points to good potential for a treatment wetland function in this area. We added approximately 2 acres of additional surrounding landscape areas to this project because they contain large numbers of Cortaderia and Schinus. Similar issues probably exist in other landscape areas around the course and should also be addressed in other projects.	X	-	-	X	-	X	-	-	MC 20 will highly improve the water quality; moderately improve groundwater recharge and aesthetics. Habitat will also be slightly improved.
63	MC 12	City Of Calabasas	MC-09, MC-10, MC-11, 12 – Pull back banks & restore wetlands – Remove sediment and stabilize banks Calabasas Golf & Country Club. This series of restoration actions should be undertaken as part of a comprehensive drainage, stream restoration, and course alignment plan for golf course. Drainage in this area passes in and out of small underground culverts, many appear undersized, and some are under greens and fairways. Do not recommend a "piecemeal" approach to drainage and habitat improvements for this area. Because of potential impact on golf course, including playing times, revenues, and course layout revisions, this will be both technically challenging, expensive, and perhaps difficult to convince golf course owner/manager of merits. Work should probably be done in late fall to minimize impact on golf course, and perhaps stage/phase into 2 segments, with projects MC – 07 – 12 (downstream of entry at Entrada Golf Course entry) year 1 and MC - 13 – 20 upstream of entry in year 2. Costs very difficult to estimate without comprehensive Master Plan, as should perhaps be completed by a golf course architect along with some course revisions, but probably on order of \$30,000 planning and conceptual design study, and budget	X	-	-	X	-	X	-	-	MC 09-12 will improve habitat and increase drainage area.

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply		Water Quality		Open Space			Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
64	MC 13	City Of Calabasas	MC 13-20 – Remove barrier to Fish movement – Improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, create/restore wetlands. This series of projects are located above or upstream of the Golf and Country Club entry at Entrada Drive. They should be completed as one group and not piecemealed. Much of the streamway is located in apparently undersized/underground culverts and there is evidence of surface flow in swale over culverts. Restoration of projects 13 – 20 could be completed either with 07-12, or as a separate phase in a different year, in late fall. Need to start the projects downstream in watershed and move upstream, not logical to fix fish passage problems at upper ends first. Planning study of \$30,000 with an implementation budget as part of comprehensive golf course drainage improvement and creek restoration plan. Stream reach above Entrada is about 100 feet, so at 200 ft. is about \$220,000. Total Golf Course Plan would be \$60,000, with designs geared to an implementation budget of \$220,000, and annual O&M costs of \$10,000 for 3 years or \$30,000.	X	-	-	X	-	X	-	-	MC 13-18 will improve/replace weirs, monitor bank erosion, stabilize bank and headcut, monitor channel instability, fix culvert angle, and create/restore wetlands.
65	DCC 07	City Of Calabasas	DCC-07 – Stabilize banks and channel – City of Calabasas channel. Local bank failure problem upstream of Park Ora Rd. 50 ft. level 3 – channel has concrete crib wall on east side, above Park Ora Rd, natural channel bank west side – 50 ft. level 3 at \$300/ft = \$15,000. Inspection allow \$2,000 for total design and construction cost of \$17,000. City responsibility as some City maintenance crew doing willow clearing – allow \$5,000 O&M.	X	-	-	X	-	X	-	-	DCC 07, 09, 10 will improve bank stability, reduce flow velocity, and remove a fish barrier. Habitat, water quality, and public safety will all be improved.
66	DCC 09	City Of Calabasas	At DCC 09, the aim is reduce flow velocity in the City of Calabasas channel. There is some evidence of high velocity and channel downcutting. Questa suggests adding planted rock channel boulders and drop structure. Their estimate includes 80 l.f. + 30 l.f. = 110 l.f. x 5' of rock depth = 550 cubic feet of rock. 20.3 cu yd. x 15% expansion = 23 cu. yd. x 2.5 tons/cubic yd. = 60 tons rock, planted at \$120/ton = \$7,200.00 Allow \$3,000 field design/inspection for total \$10,200.	X	-	-	X	-	X	-	-	DCC 07, 09, 10 will improve bank stability, reduce flow velocity, and remove a fish barrier. Habitat, water quality, and public safety will all be improved.
67	DCC 10	City Of Calabasas	At DCC 10 A, the aim is to remove a fish passage barrier. At the site there is a grouted bottom and a high velocity barrier at Vicosa Drive, above Park Ora – Wrencrest Dr. – Private bridge crossing. Questa suggests removing the grouted structure, constructing a series of step pools, and fixing a failing apron base culvert. According to Questa Engineering, allow \$10,000 for rock work, work on culvert and apron plus 3 drop structures/ rock weirs/ step pools at \$5,000 = \$15,000 = \$25,000. Allow \$5,000 for inspection and field direction. Total \$30,000.	X	-	-	X	-	X	-	-	DCC 07, 09, 10 will improve bank stability, reduce flow velocity, and remove a fish barrier. Habitat, water quality, and public safety will all be improved.
68	DCC 08	City Of Calabasas	DCC 08 is roughly 1.25 acre in size, on the West side of Old Topanga Canyon Road, where it intersects Wrencrest Drive. There are several patches of arundo on the site (~6000sqft), with the rest of the site being a mix of bare areas and weedy species such as Conzia. An old asphalt road extends to a drainage structure in the creek. DCC08 is in a tight cluster of project points (DCC07, DCC09, and DCC10), which are being investigated by Questa Eng. It will likely be most economical to design and construct this project with the rest of the cluster. There appears to be some existing efforts to control arundo on the site.	X	-	-	X	-	X	-	-	DCC 08 will greatly improve the habitat and aesthetic appeal, moderately improve water quality, and slightly improve groundwater recharge and public safety.
69	DCC 18	City Of Calabasas	DCC 18 - Remove concrete channel segments and restore the wetlands. This is private channel behind Equestrian Facility at 23200 Mulholland Rd. Several small bridges cross creek in this area. The channel has been straightened and partially lined with loose rock walls, rock slope, and in some areas. Channel is about 500-600' long, with about 15-20% hardened or about 160 feet. Total hard structures. Channel side slopes poorly vegetated/shaded. Work would involve breaking up grouted rock areas and installing pvc pipe container openings/or joint planting willows, planting willow stakes in and around rock, and adding coir fiber rolls. Most of the work could be done by a CCC crew. Work would take 1 crew week or 5 crew days. A crew day is about \$2,000, so \$10,000, plus equipment rental and materials of \$5,000. Allow \$15,000 plus \$3,000 for field engineering and inspection = \$18,000. Allow \$2,000/yr x 2 yrs. for O&M = \$4,000.	X	-	-	X	-	X	-	-	DCC 10B, 11, 12, 18, 20 will remove fish passage barriers, stabilize headcut and banks, repair damaged culvert, remove concrete channel segments/ restore wetlands, and monitor channel for further incision. Habitat, water quality, and flood conveyance should all be improved.
70	MC 10	City Of Calabasas	MC10 is roughly .5 acres in size along 250 L.F. of McCoy Creek within the Calabasas Golf and Country Club. The master plan calls for the removal of sediment and stabilization of bank erosion. Neither problem was prominent during our visit, but the area does need restoration work. A large area on the NW bank is dominated by Pepper Trees and other exotic species. The upstream sections have relatively sparsely vegetated banks. The reach ends at a small bridge that separates this site from MC11. The creek itself apparently has low velocity in this area and is dominated by Typha. Golf play crosses this section of creek so solutions will need to accommodate line of site and ball travel.	X	-	-	X	-	X	-	-	At MC 10, plans will greatly improve water quality and moderately improve habitat and aesthetics.
71	MC 11	City Of Calabasas	MC11 is roughly .5 acre located along roughly 300 L.F. of McCoy Creek within a golf course. It is very tightly constrained by golf fairway on either side. The upstream end is defined by a culvert outlet, and the downstream end is defined by a small bridge. Both banks are actively sloughing, and portions have been reinforced by low retaining walls. Solutions will need to respect the need for a line of site for golfers over the downstream end. Vegetated buffer strips are likely to be highly beneficial for water quality.	X	-	-	X	-	X	-	-	At MC 11, plans will greatly improve the water quality, habitat, flood conveyance, and aesthetics. It will also slightly improve groundwater recharge and public safety.
72	MC 07	City Of Calabasas	MC – 07 Redesign Undersized Culvert – Calabasas Golf Course – Undersized culvert just above Calabasas Parkway – Remove and replace existing culvert with two 24" culverts. Cost of culvert installation and field engineering – \$10,000. Comment: As with all projects above MC – 05, needs to be completed as part of any more comprehensive redesign of golf course drainage system. Needs to be coordinated w/golf course to minimize impact on playing time/revenues, and any modification of golf course T-/green layout	X	-	-	X	-	X	-	-	MC 07 will increase culvert's capabilities.
73	MC 08	City Of Calabasas	MC-08 – Remove Sediment – Calabasas Golf Course - Sediment has accumulated in channel along a 70-80' length and created wet boggy conditions and reduced channel capacity. For planning purposes, assume 90' length, 8' wide channel and 3' of sediment excavation = 80± cu. yds. Excavation, haul-off @ \$50.00/cu.yd. = \$4,000. Allow \$1,200 for field inspection and \$1,200 for replanting = \$6,400. Comment: Low priority – see comment note in MC-07	X	-	-	X	-	X	-	-	MC 08 will improve water quality and increase channel capacity.
74	MC 09	City Of Calabasas	MC-09, MC-10, MC-11, 12 – Pull back banks & restore wetlands – Remove sediment and stabilize banks Calabasas Golf & Country Club. This series of restoration actions should be undertaken as part of a comprehensive drainage, stream restoration, and course alignment plan for golf course. Drainage in this area passes in and out of small underground culverts, many appear undersized, and some are under greens and fairways. Do not recommend a "piecemeal" approach to drainage and habitat improvements for this area. Because of potential impact on golf course, including playing times, revenues, and course layout revisions, this will be both technically challenging, expensive, and perhaps difficult to convince golf course owner/manager of merits. Work should probably be done in late fall to minimize impact on golf course, and perhaps stage/phase into 2 segments, with projects MC – 07 – 12 (downstream of entry at Entrada Golf Course entry) year 1 and MC - 13 – 20 upstream of entry in year 2. Costs very difficult to estimate without comprehensive Master Plan, as should perhaps be completed by a golf course architect along with some course revisions, but probably on order of \$30,000 planning and conceptual design study, and budget	X	-	-	X	-	X	-	-	MC 09-12 will improve habitat and increase drainage area.
75	DCC 06	City Of Calabasas	Site 06 is roughly .5 acre in size, stretching along roughly 500' of Dry Creek to the south of the Park Ora Bridge. It is a straight reach constrained on both sides by crib walls. Existing habitat in the floodplain is sparse and the creek bed is slightly incised. Velocities during high flows are likely to be relatively high. The channel immediately upstream of this section has a step-pool morphology created primarily by tree roots crossing the creek.	X	-	-	X	-	X	-	-	DCC 06 will greatly improve habitat, moderately improve water quality and aesthetics, and slightly improve groundwater recharge and public safety.

Upper Los Angeles River Subregion Projects												
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76	MC 05	City Of Calabasas	MC – 05 – (5a & 5b) Remove barrier to fish passage. – This is a channel segment upstream of Park Capri below Park Granada and Calabasas Parking, Countryside Financial property. There are 2 barriers, - 1 about 100 ft. upstream of Capri box culvert and the second about 50 feet below Calabasas Parkway Culvert. This is a low to medium priority project, and should be completed concurrently with other projects on Countryside Financial property. Currently no steelhead in creek or watershed. MC-05b consists of an approx. 4' drop on concrete shelf associated with Calabasas Parkway box culvert. The culvert may also have some velocity problems requiring possible installation of baffles.	X	-	-	X	-	X	-	-	MC 05 will open up fish passages and reduce downcutting.
77	MC 06	City Of Calabasas	MC – 06 – Bank instability and in-channel grade control – Countryside Financial property along Park Granada between Park Capri and Parkway Calabasas. Series of small 30-40' x 6' high local bank instability problems, and a larger –60' channel bank problem immediately downstream of Parkway Calabasas box culvert. The larger erosion problem just below Parkway Calabasas is a failed former repair as evidenced by stacked concrete slabs that have been moved, and the presence of an erosional scarp.	X	-	-	X	-	X	-	-	MC 06 will improve bank stability and will provide in-channel grade control.
78	DCC 04	City Of Calabasas	Site 04 is roughly 0.75 acre in size, stretching along roughly 400' of Dry Creek. It is located in a straight reach of the floodplain. Left bank is a mix of natural and fill slopes with high quality riparian woodland habitat. Right bank is a crib-wall with generally lower quality habitat. The creek has formed two channels in this reach. The W channel is original and has some erosion problems. City Public Works crews have been clearing weeds in this reach. Options for restoration range from complete re-meandering of the channel to just focused planting/weeding efforts. Equipment access should be possible from Park Sorrento directly into the work area.	X	-	-	X	-	X	-	-	DCC 04 will greatly improve habitat; moderately improve water quality, aesthetics, and public safety; and slightly improve groundwater recharge.
79	DCC 05	City Of Calabasas	It is unclear exactly what the master plan is referring to in this area. No major erosion problems were seen. The project is approximately .5 acres located immediately downstream from the Park Ora Rd bridge, which is the end of a long constricted reach. Velocities should inherently slow at this point. The area would benefit from basic weed eradication and riparian habitat creation, which makes it a natural extension of DCC04, which is not likely within City of Calabasas limits.	X	-	-	X	-	X	-	-	DCC 05 will greatly improve habitat, moderately improve aesthetics, and slightly improve groundwater recharge.
80	MC 04	City Of Calabasas	MC 04 is on private property. The creek corridor park is owned and managed by Calabasas Park Homeowners Assn. (CPHA). To the W are condos and to the E is open space/parkland. The creek is mostly a natural channel with some minor bank erosion problems, mainly at channel bends. Bedrock (sandstone) is exposed in some banks. Some of the banks below the condos are protected by stacked gabion baskets and rock riprap. There are several small bank erosion problems; most less than 40 feet in length with vertical banks no more than 5 - 6 feet. The two largest are about 125-150 feet long, with 6-8 foot vertical banks. The creek is shaded with large/mature oaks and could create a low flow terrace at ± 4-5' above channel.	X	-	-	X	-	X	-	-	The banks will be restored with native vegetation and the banks will be stabilized. Flood conveyance should be improved. Habitat and water quality will also be significantly improved.
81	MC 02	City Of Calabasas	MC02 is an existing 300' concrete drainage connecting a lake to McCoy Creek (~.33 acres). It is likely not a historic natural connection and is designed as an overflow channel. There is good potential to improve its appearance, and aesthetics would be the primary benefit from the project. A major constraint is the presence of a very large oak only ~10' from the channel; the channel is well within the tree's canopy and disturbance from grading could be detrimental to the long-term health of the oak. Our recommendations are below, but a more extensive alternative to the project as described would be to recreate the overflow channel in the form of a meandering channel through the wide open grassy area to the south of the oak tree. This alternative would roughly double the construction costs. Access is available through the park area.	X	-	-	X	-	X	-	-	MC 02 will moderately improve the aesthetic appeal and slightly improve the water quality and habitat.
82	MC 03	City Of Calabasas	MC03 is approximately 0.75 acres along roughly 400 L.F. of McCoy Creek, starting at the culvert/bridge and extending to the south. It is flanked closely on the west bank by housing developments, with portions of the bank protected by structural products like gabions. The east bank is relatively heavily vegetated with native riparian forest species, and leads into a wide open grassy area maintained as park land use. This reach of creek has clearly been narrowed over time, resulting in the elimination of its floodplain. This is a good opportunity to expand the riparian zone and re-establish more natural hydraulics and floodplain functionality. It will come at some degree of short-term cost in the form of impacts to existing riparian vegetation on the bank to be graded. Access is available through the park area.	X	-	-	X	-	X	-	-	MC 03 will greatly improve flood conveyance and habitat in the long term. (There will be a negative benefit in the short term.) Water quality, groundwater recharge, and aesthetic appeal will all be moderately improved. Public safety will be slightly improved.
83	MC 01	City Of Calabasas	MC01 is roughly .3 acres along 250 L.F. of McCoy Creek, immediately south of Calabasas Road. It is a highly constrained reach that would benefit from a substantial widening effort to recreate a riparian zone and floodplain. That degree of project, however, is not feasible because of existing developments up to the edge of the current banks. This reach has steep banks, at roughly 1:1, but they appear to be largely stable. It is dominated by exotic species, including Vinca major, Eucalyptus spp, and Washingtonia robusta. Access is very good from the adjacent parking lot.	-	-	-	X	-	X	-	-	MC 01 will moderately improve habitat and aesthetic appeal. Water quality will be slightly improved.
84	Flint Canyon Trail Restoration Project	City of La Canada Flintridge	Construction of a slope shoring wall and widening of an existing trail along Flint Canyon.	-	-	-	-	-	-	-	-	NA
85	Rockwood Park	City of LA CD13	East Hollywood, brownfields-like area, native plants, BMPs, .42 acres	-	-	-	-	-	-	0.42	0.42	NA
86	Echo Park Minipark	City of LA CD13	Acquisition, BMPs and native habitat landscaping of small parcel at Glendale Blvd and Montana Street.	-	-	-	X	-	-	0.125	0.125	NA
87	Community Native Plant Rescue Nursery	City of LA parks & rec, SMMC, Ricky Grubb	Community Native Plant Rescue Nursery. Basic nursery to be setup and stocked in concert with grading/grubbing of Canyon Hills site. Restoration Ecologist and Nursery person must begin planning and collection of seed from areas slated for grading soon. Facility to be setup, stocked by plants impacted during grubbing, & utilized by developer for 5 years to fulfill container stock/seed needs. Facility incl. plant inventory to be transferred to Parks & rec., SMMC, or appropriate volunteer organization afterwards. Local volunteers are prepared to staff and run facility with help from a small paid staff, after transfer to public agency costs partially displaced by plant/seed sales, before transfer by developers fees/container stock expenses.	-	-	-	-	-	X	25	0	Detention basins and swales will incorporate transplanted trees from graded riparian areas that would otherwise be destroyed. A wide variety of native plants, from seed to shrubs to grasses to willows and oaks and walnut trees of a variety of sizes and ages will be made available to restore natural hydrologic absorption, approximating that of the undisturbed vegetation rapidly, (within 3-5 years). Before and after runoff quantity&quality should be recorded&studied to compare effectiveness of plantings on storm water retention compared to pre-developed conditions. Public access to nursery, trail, and open space should be considered in designing and siting of nursery, and access to Verdugo crestline drive trail provided at or near the nursery. Stormwater runoff should be substantially reduced to SanFernando/Sun Valley downstream.
88	Echo Park Lake Rehabilitation Project	City of LA, Department of Recreation & Parks	The project proposed to restore the retention basin so that its natural physical, biological, and chemical processes can improve water quality by maximizing pollutant removal. Project specifics include draining the lake, repairing storm drain pipes, re-designing the inlet and outlet structures, repairing the interior lining of the basin, installing a sediment forebay to remove sediments, improving the aeration and circulation system, replacing non-native vegetation with native plants along the water's edge and implementing various other Best Management Practices (BMPs) throughout the park using a treatment train approach. BMPs will be based on the latest stormwater technology and may include bioswales and permeable surfaces	-	-	-	X	-	X	-	-	NA

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space		Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
89	Stream Protection Ordinance Implementation	City of Los Angeles	This project facilitates implementation of retrofit priorities of the proposed stream protection ordinance for the City of LA. Activities to include removal of infrastructure from stream channels, restoration of natural channels, raising of bridges, etc.	-	-	-	X	-	X	-	-	NA
90	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 20- Sears/Crown Coach	City of Los Angeles	"Sears/Crown Coach" The project will entail the acquisition of private parcels needed to create continuous trail, green space and park connections and other parallel ways that can potentially be acquired and linked to make a continuous, useable connection. The area is disconnected from the river by the Amtrak and Metra train maintenance and storage yards and may include rail consolidation and/or air rights development connections over the rail yards to connect to the river. Reconnection to a revitalized river would provide benefits for current businesses and residents and would lead to further stabilization and revitalization of the neighborhood. Development of this project will require the consolidation of freight rail sidings and the Amtrak engine maintenance yards and roundtable. The project area includes the Crown Coach brownfield site that has been vacant and underutilized for years. A major double track Amtrak train flyover structure traverses the site west of the river. The project will create: a. A continuous connection from within the neighborhood across the railroads, connecting to and across the LA River to connect neighborhoods east and west. b. A linear multi purpose trail along the river with pedestrian connections to adjacent neighborhoods. c. Creation of urban parkland in an area of need, nearby and connected to the LA River. d. The project will include re-zoning and design guidelines for multi-family, residential and commercial properties to provide	-	-	-	-	-	-	-	-	NA
91	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 19- Santa Fe Warehouse	City of Los Angeles	"Santa Fe Warehouse" This project will develop trail, green space, park and land use connections from the Santa Fe Warehouse neighborhood to the LA River. The project will entail the acquisition of private parcels needed to create continuous trail, green space and park connections and other parallel ways that can potentially be acquired and linked to make a continuous, useable connection. The area is disconnected from the river by the Amtrak and Metra train maintenance and storage yards and may include rail consolidation and/or air rights development connections over the rail yards to connect to the river. Reconnection to a revitalized river would provide benefits for current businesses and residents and would lead to further stabilization and revitalization of the neighborhood. The project will create: a. A continuous connection from within the neighborhood across the railroads, connecting to the LA River b. A linear multi purpose trail along the river with pedestrian connections to adjacent neighborhoods. c. Creation of urban parkland in an area of need, nearby and connected to the LA River. d. The project will include re-zoning and design guidelines for multi-family, residential and commercial properties to provide	-	-	-	-	-	-	-	-	NA
92	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 18- Downtown Industrial Area	City of Los Angeles	"Downtown Industrial Area" This project will develop trail, green space, park and land use connections from the southern Boyle Heights neighborhood to the LA River through an existing mixed-use, low income residential and industrial area that is underdeveloped and disconnected by railroads and freeways. The project will affect a general area of the Boyle Heights neighborhood by virtue of reconnection to the LA River and will stimulate mixed-use, mixed-income reinvestment to add residential density, jobs and park and recreation services, facilities and parkland in an area of need. The area includes a large area (greater than 40 acres) of one story, occupied industrial lands that were previously served by numerous industrial rail spurs. These spurs have been abandoned and are not in use. The corridor along the LA River includes 6 tracks that were formerly service tracks for these rail spurs, which are currently used for train storage that does not relate to the adjoining land uses. Consolidation and potential burial or structuring of the two through tracks of rail that parallel the river could open up significant new green space, habitat, trail and park connections between an underserved neighborhood and a revitalized LA River.	-	-	-	-	-	-	-	-	NA
93	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 17- Downtown Arts District	City of Los Angeles	"Downtown Arts District" The project will entail the acquisition of private parcels needed to create continuous trail, green space and park connections and other parallel ways that can potentially be acquired and linked to make a continuous, useable connection. The area is disconnected from the river by the Amtrak and Metra train maintenance and storage yards and may include rail consolidation and/or air rights development connections over the rail yards to connect to the river. Reconnection to a revitalized river would provide benefits for current businesses and residents and would lead to further stabilization and revitalization of the neighborhood. The project will create: a. A continuous connection from within the arts district across the railroads, connecting to the LA River b. A linear multi purpose trail along the river with pedestrian connections to adjacent neighborhoods. c. Creation of urban parkland in an area of need, nearby and connected to the LA River. d. The project will include re-zoning and design guidelines for multi-family, residential and commercial properties to provide	-	-	-	-	-	-	-	-	NA
94	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 16- Boyle Heights Connector	City of Los Angeles	"Boyle Heights Connector" This project will develop multiple trail, greenspace and park connections from the Boyle Heights neighborhood to the LA River. The project will entail the acquisition of private parcels needed to create continuous trail, green space and park connections along Cesar Chavez Blvd. and other parallel ways that can potentially be acquired and linked to make a continuous, useable connection. The Boyle Heights neighborhood is an area of need for recreation services, facilities and park space, and is the location of a high proportion of youth, low income households and households without automobiles. Reconnection to a revitalized river would provide benefits for current residents and would lead to further stabilization and revitalization of the neighborhood. The project will create: a. A continuous trail from within Boyle Heights across the Golden State Freeway, other arterials and railroads, connecting to the LA River b. A linear multi purpose trail along the river with pedestrian connections to adjacent neighborhoods. c. Creation of urban parkland in an area of need, and adjacent to the LA River. d. The project will include re-zoning and design guidelines for multi-family, residential and commercial properties to provide for the re-orientation of properties to the LA River when redevelopment occurs, and to	-	-	-	X	-	-	-	-	NA
95	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 15- Mission Road Rail Yards	City of Los Angeles	"Mission Road Rail Yards" The relationship between river restoration, water quality enhancements, recreational enhancements and habitat creation will be determined in a public process during detailed design. The project may entail removal of substantial areas of river concrete, rail consolidation and relocation; the development of rail tunnels or structures to allow greater land area for river revitalization; and the development major redevelopment of underutilized properties in the neighborhood as a result of river revitalization. A major stormwater culvert leading from Boyle Heights traverses the site area. This culvert would be daylighted into a constructed wetland treatment facility and associated park and habitat lands to create a major natural area reconstruction and recreation opportunity in an area of recreation need. The project will create: a. Potential reconstruction of the LA River channel including concrete removal, widening, temporary or permanents of in-channel or off-channel diversions of base flows; and the development of boatable low-flow channels for recreation within the "Chinatown/Cornfields Area" The relationship between river restoration, water quality enhancements, recreational enhancements and habitat creation will be determined in a public process during detailed design. The project may entail removal of areas of river concrete, rail relocation and the development of rail tunnels or structures to allow greater land area for river revitalization; and the development major redevelopment of underutilized properties in the neighborhood as a result of river revitalization. The project will create: a. Potential reconstruction of the LA River channel including concrete removal, widening, temporary or permanents of in-channel or off-channel diversions of base flows; and the development of boatable low-flow channels for recreation within the river. b. Regional-scale on site water quality treatment. c. Potential berming, installation of cisterns, or excavation in selected areas to increase flood storage. d. A linear multi purpose trail along both sides of the river with pedestrian connections to adjacent neighborhoods. e. Creation of urban parkland in an area of need, and adjacent to the LA River. f. The project will include re-zoning and design guidelines for multi-family, residential and commercial properties to provide for the re-orientation of properties to the LA River when redevelopment occurs, and to	-	-	-	X	-	-	0	100	NA
96	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 14- Chinatown/Cornfields Area	City of Los Angeles	"Chinatown/Cornfields Area" The relationship between river restoration, water quality enhancements, recreational enhancements and habitat creation will be determined in a public process during detailed design. The project may entail removal of areas of river concrete, rail relocation and the development of rail tunnels or structures to allow greater land area for river revitalization; and the development major redevelopment of underutilized properties in the neighborhood as a result of river revitalization. The project will create: a. Potential reconstruction of the LA River channel including concrete removal, widening, temporary or permanents of in-channel or off-channel diversions of base flows; and the development of boatable low-flow channels for recreation within the river. b. Regional-scale on site water quality treatment. c. Potential berming, installation of cisterns, or excavation in selected areas to increase flood storage. d. A linear multi purpose trail along both sides of the river with pedestrian connections to adjacent neighborhoods. e. Creation of urban parkland in an area of need, and adjacent to the LA River. f. The project will include re-zoning and design guidelines for multi-family, residential and commercial properties to provide for the re-orientation of properties to the LA River when redevelopment occurs, and to	-	-	-	X	-	-	0	200	NA
97	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 13- Arroyo Seco Confluence	City of Los Angeles	"Arroyo Seco Confluence" The relationship between river restoration, water quality enhancements, recreational enhancements and habitat creation will be determined in a public process during detailed design. The project will create: a. Regional-scale on site water quality treatment. b. Removal of concrete along the east bank of the LA River in areas where it is hydraulically feasible. c. Potential berming, installation of cisterns or excavation in selected areas to increase flood storage. d. A linear multi purpose trail along both sides of the river connected with a pedestrian connections across the Arroyo; and connections into adjacent neighborhoods. e. Restoration of the Arroyo bottom and banks, including potential re-establishment of meander patterns to include aquatic habitat. f. Creation of urban parkland in an area of need, and adjacent to the LA River and the Arroyo Seco. g. The project will include re-zoning and design guidelines for multi-family, residential and commercial properties to provide for the re-orientation of properties to the LA River when redevelopment occurs, and to	-	-	-	X	-	-	0	50	NA

Upper Los Angeles River Subregion Projects												
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				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
98	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 12- Taylor Yards	City of Los Angeles	"Taylor Yards" The relationship between river restoration, water quality enhancements, recreational enhancements and habitat creation will be determined in a public process during detailed design. The project will create: a. Regional-scale on site water quality treatment. b. Removal of concrete along the east bank of the LA River in areas where it is hydraulically feasible. c. Potential berming, installation of cisterns or excavation in selected areas to increase flood storage. d. A linear multi purpose trail along both sides of the river connected with a new bridge across the river and potentially across the Golden State Freeway and into Elysian Park; and connections across the rail lines to the proposed state park, high school and neighborhoods east of San Fernando Road. e. Restoration of the river bottom and banks, including potential re-establishment of meander patterns to include sand and gravel beds for potential steelhead spawning, other aquatic habitat and shorebirds. f. Expansion of habitats to interconnect existing and new habitat within the river and in adjacent Elysian Park. If the project is not implemented the water quality of the river will not be improved, and the river will remain disconnected from adjacent parkland.	-	-	-	X	-	-	0	40	NA
99	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 7- Ventura Boulevard	City of Los Angeles	"Ventura Boulevard" The project will provide for localized water quality treatment using filter strips adjacent to the current maintenance roads. The project will create: a. Water quality treatment strips to distribute and filter urban stormwater on both sides of the LA River. b. A linear multi purpose trail along both sides of the river that will run parallel to the water quality treatment strips. c. The water quality filter strips and wetland will increase available, interconnected habitat for small mammals, insects and birds in a dense urban area. d. The project will include re-zoning and design guidelines for multi-family and residential properties to provide for the re-orientation of properties to the LA River when redevelopment occurs, and to provide public access to the river, green design standards, and water quality enhancements to private property runoff as part of redevelopment. If the project is not implemented the water quality of incoming outfalls and street ends will not be improved; and the community will continue to have inadequate access to and along the LA River.	-	-	-	X	-	-	0	10	NA
100	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 8- Weddington Park	City of Los Angeles	"Weddington Park" The project will provide for subregional-level water quality treatment through the construction of "green terraces" which will remove pollutants from urban runoff prior to returning it to the river. The project will create: a. Trail connections to, along and across the LA River within the two parks. b. Vegetated "green terraces" along the river channel within the park to treat urban runoff on both sides of the LA River. c. A linear multi purpose trail along both sides of the river associated with the "green terraces." d. The vegetated terraces and wetland will increase available, interconnected habitat for small mammals, insects and birds in a dense urban area.	-	-	-	X	-	-	0	5	NA
101	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 6- Tujunga Wash Confluence	City of Los Angeles	"Tujunga Wash Confluence" The project will affect approximately 40 acres of land: 2 acres of land within the site of the Tujunga Wash confluence; 28 acres of land within the creek and river channels, and 10 acres of land along the river right-of-way and the immediate linear strips of "left over" land following the outside edges of the LA River channel. The project will entail negotiation of access to approximately 5 acres of private land through easement, acquisition, or through the establishment of trail connections that are structurally cantilevered from the walls of the LA River channel for short lengths of constrained areas. The project will provide a subregional-level water quality solution, using in-channel "green terraces" and filter strips adjacent to the current maintenance road, to treat discharges from the storm sewer outfalls that daylight into the Los Angeles River as well as sheet flow from adjacent streets. The project will create: a. Water quality filter strips to distribute and filter urban stormwater on both sides of Tujunga Wash. b. A linear multi purpose trail along both sides of the	-	-	-	X	-	-	0	40	NA
102	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 5- Studio City - Coldwater Canyon to Whitsett	City of Los Angeles	"Studio City-Coldwater Canyon to Whitsett" The project will affect approximately 10 acres of land along the river right-of-way and the immediate linear strips of "left over" land following the outside edges of the LA River channel. The project will entail negotiation of access to approximately 2 acres of private land through easement, acquisition, or through the establishment of trail connections. The project will provide for localized water quality treatment using filter strips adjacent to the current maintenance roads. The project will create: a. Water quality filter strips to distribute and filter urban stormwater on the both sides of the river. b. A linear multi purpose trail along both sides of the river, which may be structurally cantilevered in selected locations where no additional right-of-way is available. c. The filter strips and wetland will increase available, interconnected habitat for small mammals, insects and birds in a dense urban area. d. The project will include re-zoning and design guidelines for multi-family and residential properties to provide for the re-orientation of properties to the LA River when	-	-	-	X	-	-	0	10	NA
103	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 11- Verdugo Industrial Green Park	City of Los Angeles	"Verdugo Industrial Green Park" This project will create regional water quality treatment areas, and will provide substantial and needed beneficial uses including the development of riparian and upland habitat; and valuable urban open space. The project will create: a. Removal of concrete on the north bank of the LA River in areas where it is hydraulically feasible. b. Diversion of base flows of the wash into a constructed wetland that will be established by modification of the channel at the point of the confluence. c. A linear multi purpose trail along the north bank of the river with future connections to regional and neighborhood trails within Griffith Park and North Atwater Park. d. A bike/pedestrian bridge and trail connection from the site to potential trail connections across the river and the Golden State Freeway into Griffith Park. e. Expansion of habitats at the confluence. If the project is not implemented water quality will not be enhanced and the river will remain disconnected from adjacent parkland.	-	-	-	X	-	-	0	40	NA
104	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 9- Spreading Grounds	City of Los Angeles	"Spreading Grounds" The relationship between river restoration, water quality enhancements, recreational enhancements and habitat creation will be determined in a public process during detailed design. The project will create: a. Regional-scale on site water quality treatment. b. Potential berming or installation of cisterns in selected areas to increase flood storage. c. A linear multi purpose trail along both sides of the river, connected to regional and neighborhood trail access at the perimeter of the basin. d. Restoration of the river bottom and banks where feasible, including potential re-establishment of meander patterns to include sand and gravel beds for potential steelhead spawning, other aquatic habitat and shorebirds. e. Expansion of habitats to interconnect existing and new habitat within the river and in adjacent Griffith Park. If the project is not implemented the water quality of the river will not be improved, and the river will remain disconnected from adjacent parkland.	-	-	-	X	-	-	0	100	NA
105	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 10- Ferraro Fields	City of Los Angeles	"Ferraro Fields" The relationship between river banks, recreational facilities and habitat creation will be determined in a public process during detailed design. The project will create: a. Removal of concrete on the south bank of the LA River in areas where channel hydraulics permit. b. A linear multi purpose trail along the south bank of the river that will connect to regional and neighborhood trails within Griffith Park. c. An equestrian bridge and trail connection from the equestrian center to existing equestrian trails in Griffith Park. d. Expansion of habitats to interconnect existing and new habitat within the river and in adjacent Griffith Park. If the project is not implemented, water quality will not be improved, and the river and equestrians will remain disconnected from adjacent parkland.	-	-	-	X	-	-	0	27	NA
106	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITES# 3/4- Sepulveda Basin & Agricultural Area	City of Los Angeles	"Sepulveda Basin & Agricultural Area" The project will affect several hundred acres of land within the basin. The relationship between river restoration, water quality enhancements, recreational enhancements and habitat creation will be determined in a public process during detailed design. The project will create: a. Regional-scale on site water quality enhancements for each major tributary upstream from their individual confluences with the L.A. River. b. Potential berming in selected areas within the basin to increase flood storage. c. A linear multi purpose trail along both sides of the river, connected to regional and neighborhood trail access at the perimeter of the basin. d. Restoration of the river bottom and banks, including potential re-establishment of meander patterns to include sand and gravel beds for potential steelhead spawning, other aquatic habitat and shorebirds. e. Expansion of open channel, restored tributary habitats to interconnect existing and new habitat within the basin. If the project is not implemented the water quality of incoming outfalls and street ends will not be improved; the base	-	-	-	X	-	-	0	4500	NA

Upper Los Angeles River Subregion Projects												
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107	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 2- Reseda Boulevard	City of Los Angeles	"Reseda Boulevard" The project will affect approximately 150 acres of land: 20 acres of land within the site of the Aliso Creek confluence and its associated electrical transmission corridor; 20 acres of land within the creek and river channels, and 20 acres of land along the river right-of-way and the immediate linear strips of "left over" land following the outside edges of the LA River channel and approximately 90 acres of land within Reseda Park and the Reseda Park High School site. Through this reach of the river, approximately 20 "street ends" approach the river, with several featuring storm drains that discharge urban runoff directly into the LA River. The project will provide regional water quality treatment within the Reseda Park and High School sites, and will provide subregional-level water quality treatment, using in-channel "green terraces" and filter strips at the edge of the current maintenance road, to treat discharges from storm sewer outfalls that daylight into the Los Angeles River and sheet flow from adjacent streets. The project will create: a. On site water quality enhancements within the high school site including collection of rooftop and pavement drainage into vegetated swales with underlying soil filtration technology.	-	-	-	X	-	-	0	150	NA
108	Los Angeles River Revitalization Master Plan, OPPORTUNITY SITE # 1- Canoga Park	City of Los Angeles	"Canoga Park" The project will affect approximately 50 acres of land: 20 acres of land within the site of the Canoga Park High School; 10 acres of land within the creek and river channels, and 20 acres of land along the river right-of-way and the immediate linear strips of "left over" land following the outside edges of the LA River channel for approximately 1/2 mile downstream of the confluence. Through this reach of the river, approximately 16 "street ends" approach the river, with several featuring storm drain pans that discharge urban runoff directly into the LA River. The project will provide a subregional-level water quality solution, using in-channel "green terraces" and filter strips adjacent to the current maintenance road, to treat discharges from the storm sewer outfalls that daylight into the Los Angeles River as well as sheet flow from adjacent streets. The project will create: a. On site water quality enhancements within the high school site including collection of rooftop and pavement drainage into vegetated swales with underlying soil filtration technology. b. Diversion of	-	-	-	X	-	-	0	50	NA
109	Montecito Heights/ Debs Park	City of Los Angeles Potential partners: County of Los Angeles, North East	The Montecito Heights Park naturalization project will create an upland native riparian edge along the Montecito Heights Park. Additional green parkway along the arroyo will be added to the existing park. The project replaces a sparsely landscaped area with native trees and plants.	-	-	-	-	-	-	0	12	NA
110	WEST SAN FERNANDO VALLEY LINEAR RIVERFRONT PARKWAY	City of Los Angeles, Bureau of Engineering	In an effort to reclaim the community access to the Los Angeles River, a 2-mile linear riverfront parkway is proposed in the West San Fernando Valley, between Mason Avenue and Vanalden Avenue. It stretches through the communities of Canoga Park, Woodland Hills, Reseda, and Tarzana, and underpasses the existing bridges at Tampa Ave, Winnetka Ave, Vanowen St and Mason Ave to avoid any interruption caused by the existing bridge abutments. The parkway would provide recreation, habitat restoration, stormwater quality improvement and interpretive enhancements. The parkway would integrate transportation safety and bikeway performance goals to serve both bicyclists and pedestrians. Lightings, aesthetic gateways, railings, signage, benches, and other civic amenities would be considered to enrich the parkway experience and reclaim community identity. The proposed work would fulfill part of the 32-mile continuous bikeway along the L.A. River as called for by the City of Los Angeles Bicycle Plan.	-	-	-	X	-	-	0	5	NA
111	Los Angeles River Revitalization Master Plan- 32 Mile Channel and Easement/Greening	City of Los Angeles, Bureau of Engineering	This project proposes enhancements to the existing river channel along the 32 mile reach of the Los Angeles River within the City of Los Angeles, from the river's confluence of Bell Creek and Arroyo Calabasas to Washington Boulevard just south of downtown. The project proposes modifications that will improve ecological function, treat storm runoff and enhance water quality, strengthen and connect aquatic, terrestrial and avian habitat, and provide compatible recreational opportunities. The project will reduce runoff through infiltration and storage, and encourage groundwater recharge where soils are favorable. The project will address water quality treatment through landscaping and address pollutant discharges within the watershed at the source, before they make their way to the river. A 32 mile continuous greenway, including a pedestrian path on one side of the channel and a bicycle path on the other, will be provided, creating a variety of public spaces, including small pocket parks and natural areas, while providing safe mechanisms to ensure public safety in the event of flooding.	-	-	-	-	-	-	5	0	Area Drained: 582.3 sq. mi.
112	Upper Los Angeles River Flood Control	City of Los Angeles, Bureau of Sanitation	This projects intends to reduce future flood risk by completed the plan, design, and implementation of projects in the Upper Los Angeles River Sub-Region. These projects are to relieve local flooding, improve drainage, and protect public health and property	-	-	-	-	-	-	-	-	eliminate approximately 60 problematic flooding sites
113	Dorris Place: Elysian Valley Water Quality & Open Space Project	City of Los Angeles, Bureau of Sanitation and North East Trees	For this Elysian Valley Surface Drainage Project, approximately 660 feet of riverbank will be made available for public park use and landscaped to improve recreational uses along the river. This project relocates the Sanitation Yard from Dorris Place to the old Continental Bakery site in Elysian Valley and converts the existing yard to a riverfront park. Best management practices will be used to treat its runoff. In a stretch of the river where the soft bottom channel offers a rare and vivid experience of the Los Angeles River, the project will foster the creation of continuous river parkway on the river's banks. L.A. River water will be re-routed to sustain wetlands. The project will provide access to the Los Angeles River and open space.	-	-	-	X	-	X	0	5	NA
114	Moorpark Park	City of Los Angeles, County of Los Angeles	The Moorpark Park project reconfigures the existing park and adds additional area. The concrete side of the park and the bank of the Tujunga wash will be reconfigured and landscaped with live stakes. The project will also include native trees, landscaping, and walk and bike trails.	-	-	-	-	-	-	0	2	NA
115	Arroyo Seco Park	City of Los Angeles, County of Los Angeles, Caltrans, City of South Pasadena	The Arroyo Seco Park naturalization project will create a native riparian edge along the Arroyo Seco Park. The project replaces a narrow grassy area with native trees and plants (conserving water and creating a more sustainable landscape). The project is in a highly visible area seen by commuters on the newly-opened Gold Line commuter rail. The bank of the Arroyo Seco near its outlet into the Los Angeles River will be spiked with live stakes that will allow the greening of the bank without impacting the hydraulic capacity of the channel. Runoff from the existing parking lot and nearby streets will be treated using grass strips or swales.	-	-	-	X	-	X	0	3	NA
116	Legion Lane Park	City of Los Angeles, County of Los Angeles, North East Trees, Atwater Villa	Legion Lane Park will have trash control devices installed in 50 catch basins located within the watershed. There will be more than 1,000 ft. of riverbank made available for public park use, and shall be landscaped to improve recreation and habitat uses along the Los Angeles River. The low-lying lands will be landscaped with native plants to promote habitat for hydrophilic (water loving) species. Other areas will be developed with trails to allow people to enjoy this soft-bottomed stretch of the L.A. River.	-	-	-	X	-	-	0	7	NA
117	North Branch Creek Daylighting in Sycamore Park	City of Los Angeles, County of Los Angeles, U.S. Army Corps of Engineers	The North Branch Creek was a historic tributary feeding the Arroyo Seco in Highland Park, now confined to an underground storm drain. The North Branch Creek daylighting project will enhance a portion of the existing Sycamore Park by daylighting 740 feet of the historic creek. The project offers water quality benefits by restoring natural riparian processes. It will provide habitat, restore a sense of place, and increase awareness of natural water processes. The runoff from the 1,140-acre watershed will be screened for trash before it enters Sycamore Park.	-	-	-	X	1	-	0	1	NA

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
118	North Atwater Park	City of Los Angeles, County of Los Angeles, U.S. Army Corps of Engineers	This project involves the acquisition of the Recreation and Parks Forestry Yard, in order to develop additional riverfront for water quality treatment, habitat, and public open space. It would add additional wetlands, water polishing and native habitat restoration. This would be for 4 acres that are not included in other phases of this project. Phase I (restoration of the creek) is a Supplemental Environmental Program project that is being funded by the Collection System Settlement Agreement, as a result of two Clean Water Act enforcement actions. Funding has been applied for Phase II from Prop 50, Chpt. 5, (for DG pathways, decorative fencing along the river and park furniture) and from Prop 50, Chpt. 8 (plants, bridge over the creek construction, bank stabilization and a stormceptor unit). The entire project includes a native upland wooded area, walk paths, picnic area, informational kiosk, benches, riverfront walk, and a small parking lot featuring stormwater best management practices.	-	-	-	X	-	-	0	9	NA
119	Hazard Creek and Wetland Restoration	City of Los Angeles, North East Trees	The Hazard Stream and Wetland Restoration project will restore an existing degraded remnant stream that will feed the ground water through recharge, wet flow for new wetlands, and a perennial stream during the dry months. The project will restore native Los Angeles riparian habitat, including the existing wetlands, the cattails, willows, and sycamores. Twenty five City catch basins along Soto St. will be retrofitted with trash capture devices to minimize the trash discharge into the newly restored creek and the Los Angeles River. This project will also repair a broken storm drain and naturalize it, and provide treatment to improve the quality of the stream. The project will feature native trees and shrubs, a walk and bike paths enhancing community access to the park, and bringing a natural amenity to a highly urbanized area.	-	-	-	X	-	X	0	2	NA
120	Hollenbeck Park Lake Rehabilitation Project	City of Los Angeles; Dept. of Recreation and Parks	The project proposes to restore the retention basin so that its natural physical, biological, and chemical processes can improve water quality by maximizing pollutant removal. Project specifics include draining the lake, improving the aeration and circulation system, installing trash capture inserts in storm drains, reconstructing walking paths using permeable surfaces, installing a "smart" irrigation system, providing educational signage and kiosks identifying the water quality improvements benefits, replacing non-native vegetation with native plants along the water's edge, and implementing various other Best Management Practices (BMPs) throughout the park using a treatment train approach. BMPs will be based on the latest stormwater technology and may include bioswales and permeable surfaces	-	-	-	X	-	X	-	-	NA
121	Taylor Yard Riverfront Park	City of Los Angeles; Dept. of Recreation and Parks	Development of a 40 acre park along the edge of the Los Angeles River that would include habitat restoration, flood storage, and passive recreational areas. Develop Upland/Lowland habitat areas, an emergent wetland basin, and a flood diversion structure and basin for peak flood storage and release. Build a nature center, walking trails, and vista points; connect to the adjacent 40 Acre Rio de Los Angeles State Park to create a unified park and recreation area. The project will reduce bacteria and nutrient loads to the LA River and help attain recreational water quality standards.	-	-	-	X	-	X	-	-	NA
122	Sycamore Grove	City of Los Angeles; Dept. of Recreation and Parks	Install cistern to collect stormwater runoff, install parking lot BMPs, treat tennis court runoff through BMPs, develop swales and retention areas in suitable areas within park to process runoff before it reaches the Arroyo, upgrade irrigation system to a "smart" system, install permeable paving (pathways) throughout site, replace existing concrete swale with bio swale	-	-	-	X	-	X	-	-	NA
123	Lincoln Park Lake Rehabilitation Project	City of Los Angeles; Dept. of Recreation and Parks	The project proposed to restore the retention basin so that its natural physical, biological, and chemical processes can improve water quality by maximizing pollutant removal. Project specifics include draining the lake, improving the aeration and circulation system, installing trash capture inserts in storm drains, reconstructing walking paths using permeable surfaces, installing "smart" irrigation system, providing educational signage and kiosks identifying the water quality improvements benefits, and implementing various other Best Management Practices (BMP) throughout the park using a treatment train approach. BMPs will be based on the latest stormwater technology and may include bioswales and permeable surfaces	-	-	-	X	-	X	-	-	NA
124	Weddington Park Expansion (2)	City of Los Angeles; Dept. of Recreation and Parks	This project proposes the acquisition of 6.24 acres of river front property along the LA River (from US-101 to Lankershim Blvd) immediately adjacent to Weddington Park. Improvements include bioswales, trash capture devices, native planting & habitat restoration, and bike/walking trails. Land is currently under the jurisdiction of the Army Corps and/or LAC Flood Control District.	-	-	-	X	-	X	-	-	NA
125	Griffith Park—Fern Dell Stream Ecosystem Restoration	City of Los Angeles; Dept. of Recreation and Parks	Stream ecosystem restoration involving the use of bioengineering applications, channel modifications, where necessary, streamflow augmentation, and the removal of invasive plants and planting of native aquatic and riparian vegetation to improve stream-side buffering, bank stability, wildlife habitat values, stormwater infiltration, and water quality through a reduction in nutrient, trash, bacterial and sediment loadings. Trails, picnicking areas and other public access and recreational improvements will be provided in proximity to the stream channel. "Smart" irrigation systems will be installed to meet the watering needs of the planted areas.	-	-	-	-	-	X	-	-	NA
126	Golf Course BMPs — Roosevelt Golf Course	City of Los Angeles; Dept. of Recreation and Parks	Installation of dry swale drainage systems throughout the golf course to replace existing concrete drainage channels for capture and infiltration of storm flows; installation of new wash rack systems at the golf course service yard with a new state-of-the-art water treatment and recycling system to capture, treat and reuse mechanical equipment wash water	-	-	-	X	-	-	-	-	NA
127	Golf Course BMPs — Los Feliz Golf Course	City of Los Angeles; Dept. of Recreation and Parks	Installation of dry swale drainage systems throughout the golf course to replace existing concrete drainage channels for capture and infiltration of storm flows; installation of a new wash rack systems at the golf course with a state-of-the-art water treatment and recycling system to capture, treat and reuse mechanical equipment wash water; and installation of a new smart irrigation system.	-	-	-	X	-	-	-	-	NA
128	Stormwater Upgrades at Recreation & Parks Central Service Yard (CSY)	City of Los Angeles; Dept. of Recreation and Parks	The project will conduct a detailed engineering study for Central Service Yard (CSY) and identify opportunities for capture and treatment or infiltration of stormwater at the site. Project specifics may include installing vegetated buffer strips along the LA River to capture and infiltrate surface runoff, location of a cistern on-site, capture and treating first flush, and other state of the art Best Management Practices (BMPs). The project will result in reducing pollutant loads to the LA River and help towards attainment of recreational water quality standards and TMDLs in receiving waters	-	-	-	X	-	X	-	-	NA
129	Environmental Mgmt. of Equestrian Operations – Griffith Park Pony Ride	City of Los Angeles; Dept. of Recreation and Parks	Identification and implementation of equestrian related Best Management Practices (BMPs) at the Griffith Park Pony Ride and the development of a citywide equestrian public education program in order to reduce bacteria levels in the LA River. Site specific controls will include developing BMPs for handling horse manure, installing vegetated buffer strips to capture and infiltrate surface runoff, and other BMPs. The public education program will target the equestrian community, children, and visitors to the Griffith Park area and inform them on how horses impact water quality and how impacts can be mitigated through the use of good housekeeping practices and BMPs. The project will reduce bacteria and nutrient loads to the LA River and help attain recreational water quality standards	-	-	-	X	-	X	-	-	NA
130	Golf Course BMPs — Wilson/Harding Golf Courses (Griffith Park)	City of Los Angeles; Dept. of Recreation and Parks	Installation of dry swale drainage systems throughout the golf course to replace existing concrete drainage channels for capture and infiltration of storm flows; installation of new wash rack systems at the golf course service yard with a new state-of-the-art water treatment and recycling system to capture, treat and reuse mechanical equipment wash water	-	-	-	X	0.0072	-	-	-	NA

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
167	Antelope Valley Farms Phase III	LACSD	Implementation of Jan 2001 Farm Management Plan for a 4 sq. mile land application and reuse site.	-	0	6700	-	-	-	-	-	NA
168	Castaic Lake Water Agency	LACSD	Implementation of Castaic Lake Water Agency's recycled water master plan.	-	0	8600	-	-	-	-	-	NA
169	City of Lancaster – Division Street	LACSD	Construction of pipeline and storage to serve urban users in the City of Lancaster along Division Street.	-	0	1100	-	-	-	-	-	NA
170	San Fernando Basin Management Plan	LADWP	Develop and maintain a master plan for the San Fernando basin establishing operation objectives and remedies. Project and capital improvements for the basin include the Pacoima area Groundwater, nitrate facilities at Tujunga, and the North Hollywood Wellfield restoration.	X	-	-	-	-	-	-	-	NA
171	Elysian Reservoir Water Quality Improvement Project	LADWP	Cover Elysian or provide covered storage facilities for the existing open reservoir.	-	-	-	X	-	-	-	-	NA
172	Central City/ Elysian Park	LADWP	18,000 feet of pipeline, pumping station, and tank to deliver recycled water from the LA-Glendale Plant to Elysian Park, Taylor Yard, and other users along the route.	X	1000	0	-	-	-	-	-	NA
173	Pollock Wells Ammoniation Station	LADWP	Plan, design and construct the Pollock Wells Ammoniation Station to add aqua ammonia to form a chloramine residual disinfectant in the water being supplied to customers via the Pollock Wells Treatment Plant.	-	-	-	X	-	-	-	-	NA
174	Headworks Wetlands	LADWP	Project will restore native vegetation at a 40+ acre site (Headworks Spreading Grounds) that will feature an uplands meadow habitat area (atop an underground water storage tank) and a low lying wetlands area	-	-	-	X	-	X	40	0	NA
175	Silverlake Reservoir Water Quality Improvement Project	LADWP	Construction of a 110 MG buried reservoir along with a 4 MW hydroplant at the former Headworks Spreading Grounds along with 4900 feet of a by-pass tunnel and regulating station around Silver Lake Reservoir.	-	-	-	X	-	-	-	-	NA
176	Sepulveda IV Water Recycling Project	LADWP	Construct 14,000 feet of pipeline to deliver recycled water from the Tillman Plant to users within the Sepulveda Basin. Phases 1-3 connected the 3 existing golf courses (Woodley, Balboa, Encino) within the Sepulveda Basin.	X	0	8000	-	-	-	-	-	NA
177	South Valley Water Recycling Project	LADWP	30,000-40,000 feet of pipeline to deliver recycled water from the Tillman Plant to Pierce College, MTA, LAUSD schools and other users along the route.	X	0	500	-	-	-	-	-	NA
178	North Hollywood Well Field	LADWP	The North Hollywood (NH) Project will add up to eight new NH wells, each with a capacity of approximately 8 cfs to increase the NH Well Field capacity by a net 64 cfs.	X	-	-	-	-	-	-	-	NA
179	Centralized Groundwater Treatment - San Fernando Basin	LADWP	Centralized groundwater treatment (100+ cfs) for VOCs and other contaminants at LADWP's North Hollywood Pumping Station Complex for potable use	-	-	-	-	-	-	-	-	Project will treat contaminated groundwater and increase the City's groundwater production by 100+ cfs allowing for improved management of the San Fernando Basin and better utilization of our local water resources
180	North Hollywood Wells Ammoniation Station	LADWP	Plan, design and construct the North Hollywood Ammoniation Station to add aqua ammonia to form a chloramine residual disinfectant in the water being supplied to customers via the North Hollywood Pumping Station Complex.	-	-	-	X	-	-	-	-	NA
181	Tujunga Spreading Grounds Sheldon-Arleta Project (Phase I)	LADWP	Project proposes to renovate the landfill gas collection system at the Sheldon-Arleta Landfill and restore the historic spreading capacity of the Tujunga Spreading Grounds	X	5000	0	X	-	X	0	41	NA
182	Tujunga Wells Ammoniation Station	LADWP	Plan, design and construct the Tujunga Wells Ammoniation Station to add aqua ammonia to form a chloramine residual disinfectant in the water being supplied to customers via the Tujunga Pumping Station.	-	-	-	X	-	-	-	-	NA
183	Hansen Tank	LADWP	Construct 2,000 feet of pipeline and a 7 million gallon tank to store recycled water from the Tillman Plant for deliveries to the Valley Generating Station and other users in the Sepulveda Basin.	X	0	6400	-	-	-	-	-	NA
184	Boulevard Pit Water Transfer	LADWP	Suggest adding the Valley Economic Development Center and Community Redevelopment Agency as possible partners to facilitate property acquisition. Possible contiguous site for #51st Agricultural District Fairgrounds	-	-	-	-	-	-	-	-	40 Acres next door for sale
185	Recycled Water Groundwater Recharge Feasibility Study	LADWP	Project will determine technical feasibility and public acceptance of using advanced treated recycled water for groundwater recharge in the east San Fernando Valley	X	0	33600	-	-	-	-	-	NA
186	Modifications at LA-33	LADWP	Plan, design and construct pipeline and possible metering and chlorination/chloramination facilities to improve the operation of the MWD LA-33 connection at De Soto Reservoir; consider DBP's in any improvements; involves West Valley Feeder No. 1 agreement.	-	-	-	-	-	-	-	-	NA
187	Hansen II Water Recycling Project	LADWP	Construct 32,000 feet of pipeline, pumping station and tank to deliver recycled water from the Tillman Plant to the Hansen recreation Area and other users along the route. Water will be pumped from the Hansen Tank.	X	0	1380	-	-	-	-	-	NA
188	Granada Hills Reservoir Water Quality Improvement Project	LADWP	Plan, design, and construct Granada Hills Reservoir at the Van Norman Complex.	-	-	-	X	-	-	-	-	NA
189	Van Norman Chloramination Station 1	LADWP	Plan, design and construct the Van Norman Chloramination Station No. 1 to add aqua ammonia and chlorine to form a chloramine residual disinfectant in the water being supplied to customers via the Los Angeles Reservoir Bypass Line and the Van Norman Pumping Station No. 2.	-	-	-	X	-	-	-	-	NA
190	Van Norman Chloramination Station 2	LADWP	Plan, design and construct the Van Norman Chloramination Station No. 2 to add aqua ammonia and chlorine to form a chloramine residual disinfectant in the water being supplied to customers via the Los Angeles Reservoir Outlet Line.	-	-	-	X	-	-	-	-	NA
191	Mission Well Field Rehabilitation	LADWP	Project will construct three new production wells at LADWP's Mission Well Field in the Sylmar Basin to enhance the production capacity of the well field, and to improve operational reliability and flexibility	-	-	-	-	-	-	-	-	The new wells will allow for increased production capacity if implementation of BMPs increase the safe yield of the Sylmar Basin
192	Mission Wells Ammoniation Station	LADWP	Plan, design and construct the Mission Wells Ammoniation Station to add aqua ammonia to form a chloramine residual disinfectant in the water being supplied to customers via the Mission Wells Pumping Station.	-	-	-	X	-	-	-	-	NA
193	Arsenic Removal Los Angeles Aqueduct	LADWP	Plan, design and construct facilities to remove arsenic in LA Aqueduct supply as required to meet upcoming EPA and DHS standards.	-	-	-	X	-	-	-	-	NA
194	Bull Creek-Los Angeles Reservoir Water Quality Improvement Project	LADWP	Plan, design, and construct storm drainage facilities and potable water pipeline improvements to comply with water quality regulations at LA Reservoir.	-	-	-	X	-	-	-	-	NA
195	Los Angeles Aqueduct Filtration Plant Enhanced Coagulation	LADWP	The project at the VN Res complex includes the construction of chem and mix facilities and sedimentation basins upstreams of the LAAFP, and diversion works to reroute water along the existing low speed channel.	-	-	-	X	-	-	-	-	NA
196	Los Angeles Reservoir North/South Water Quality Improvement Project	LADWP	Plan, design, and construct Los Angeles Reservoir North and Los Angeles Reservoir South. These reservoirs will be formed by constructing the Los Angeles Reservoir Division Dam to split the current Los Angeles Reservoir into two basins. The reservoirs will include floating covers. This is the final phase of the LA Reservoir Project.	-	-	-	X	-	-	-	-	NA
197	Central LA County - Regional Water Recycling Program	LADWP, FMWD, PWP, and GWP	Regional Expansion of recycled water system; to be supplied by the Los Angeles-Glendale Water Reclamation Plant to replace potable water consumption.	X	6100	0	-	-	-	-	-	NA
198	Powerline Easement Project	LADWP/County	Project proposes to capture and infiltrate stormwater beneath existing LADWP power line easements for groundwater recharge and TMDL compliance	X	0	1000	X	-	X	-	-	NA
199	Tujunga Spreading Grounds Optimization	LADWP/County	Project proposes to optimize the recharge capacity of the spreading grounds by modernizing and automating the existing intake structures and reconfiguring the spreading basins to increase retention capacity	X	2000	5000	X	-	X	-	-	NA

Upper Los Angeles River Subregion Projects													
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230	Trash Removal Subregional Solution - Tujunga Central	Los Angeles County Flood Control District	Develop a subregional trash capture BMP for the Tujunga Central watershed in compliance with the LAR Trash TMDL	-	-	-	-	-	-	-	-	-	NA
231	Trash Removal Subregional Solution - Tujunga Wash	Los Angeles County Flood Control District	Develop a subregional trash capture BMP for the Tujunga Wash subwatershed in compliance with the LAR Trash TMDL	-	-	-	-	-	-	-	-	-	NA
232	Tujunga Wash Greenway - Phase II	Los Angeles County Flood Control District	Project will extend from Colfax to Laurel Canyon along both sides of Tujunga Wash and create a linear greenway, add native landscaping, pathways for walking and biking along either side of the Wash, and incorporate rest area amenities, interpretive signs	-	-	-	-	-	-	-	-	-	NA
233	Tujunga Wash Greenway - Phase III	Los Angeles County Flood Control District	Project will extend from Laurel Canyon to Whitsett (101 Fwy) along both sides of Tujunga Wash and create a linear greenway, add native landscaping, pathways for walking and biking along either side of the Wash, and incorporate rest area amenities, in	-	-	-	-	-	-	-	-	-	NA
234	Tujunga Wash Restoration Project Section 1135	Los Angeles County Flood Control District	Work w/ Corps to extend the Tujunga Wash stream restoration project, from Vanowen Street to the Pacoima Wash Diversion. Project is on the west bank of the Tujunga Wash and will enhance habitat, add open space, and improve water quality through	-	-	-	-	-	-	-	-	-	NA
235	Verdugo Debris Basin Habitat Enhancement	Los Angeles County Flood Control District	Aesthetically enhance the Verdugo Debris Basin area with native planting.	-	-	-	-	-	-	-	-	-	NA
236	Wilson Debris Basin Habitat Enhancement	Los Angeles County Flood Control District	Aesthetically enhance the Wilson Debris Basin area with native planting and passive recreational amenities.	-	-	-	-	-	-	-	-	-	NA
237	Hansen Dam Water Conservation and Supply	Los Angeles County Flood Control District	Modify Hansen Dam to allow the operation of a year-round water conservation pool that would provide additional local water supply	-	-	-	-	-	-	-	-	-	NA
238	Tujunga Spreading Grounds Intake and Basin Improvements	Los Angeles County Flood Control District	Regrade the spreading basins; abandon existing Tujunga Wash intake and rubber dam and relocate to Basin 1; add an intake and rubber dam near Basin 12 to capture flows from Pacoima Diversion Channel; install telemetry system.	X	1000	0	-	-	-	-	-	-	NA
239	Hansen Spreading Grounds Basin Improvements	Los Angeles County Flood Control District	Reconfigure and deepen the spreading basins; install interbasin structures; enlarge or supplement culvert under Glenoaks Boulevard to meet the facility's intake capacity; install landscaping around the perimeter of the facility.	X	1000	0	-	-	-	-	-	-	Aesthetics 1 Mile
240	Hansen Spreading Grounds Intake and Telemetry Improvements	Los Angeles County Flood Control District	Replace existing steel radial gate in Tujunga Wash with a rubber dam; install telemetry for monitoring and remote operation.	X	100	100	-	-	-	-	-	-	NA
241	Big Tujunga Dam Spillway Dam	Los Angeles County Flood Control District	Construction of a dam within the spillway at Big Tujunga Dam to increase the maximum storage capacity of the reservoir by approximately 705 acre-feet.	X	705	0	-	-	-	-	-	-	NA
242	Big Tujunga Dam – San Fernando Basin Groundwater Enhancement Project	Los Angeles County Flood Control District	The Big Tujunga – San Fernando Basin Groundwater Enhancement Project is an integrated resources management project that involves the placement of new concrete on the downstream face of the existing arch dam to create a thick-arch. The rehabilitation of Big Tujunga Dam will, in addition to providing downstream flood protection, and flow releases to enhance habitat, will provide an additional 4,500 acre-feet of water for recharge downstream.	X	4500	0	-	-	-	-	-	-	Additional benefits include flood protection, habitat enhancement, water quality benefits, and water conservation benefits.
243	Pacoima Reservoir – Sediment Removal	Los Angeles County Flood Control District	Remove approximately 1.5 million cubic yards of accumulated sediment from Pacoima Reservoir.	X	1000	0	-	-	-	-	-	-	NA
244	Big Tujunga Dam – Spillway Rubber Dam	Los Angeles County Flood Control District	The Big Tujunga is located in the Angeles National Forest, above the Sun Valley area of the City of Los Angeles, in Big Tujunga Canyon, which is located within the watershed for the upper Los Angeles River. Dam releases leaving Big Tujunga Canyon rechar	X	100	1000	-	-	-	-	-	-	NA
245	Arroyo Calabasas at Ventura Boulevard	Mountains Recreation and Conservation Authority	The project site consists of four Caltrans owned properties totaling 4.3 acres. It contains park of Dry Canyon Creek. The project plans proposes to construct three detention areas, total new capacity of 0.5 acre feet, and two clean and catch swales, total capacity of 13,320 cu. ft. Stormwater run-off would be diverted from streets via curb cuts and spread over portions of the site via rock-lined infiltration trenches and bioswals. Swale vegetation will be both wet and dry. The plan also recommends integrating plantings of oaks and sycamores with the already native vegetation to provide for better wildlife habitat continuity. The project also aims to provide a new BMP model for consideration by Caltrans. Informational kiosks regarding stormwater management and local habitat issues will be installed in recreational areas of the greenway.	X	3,125	0	-	-	X	-	-	-	The implementation of the project will create an alternative urban run-off system needed for the heavily used Ventura Freeway and surrounding residential neighborhoods. The project will maximize recharge of the underlying groundwater aquifer and slow the peak runoff flow into the Los Angeles River to improve flood management conditions. The several targeted parcels will form an abstract continuous greenway surrounding Ventura Boulevard near Valley Circle. With detention areas and clean and catch swales, pollutants can be filtered before entering the Arroyo Calabasas reach and a new capacity of 0.5 acre feet will be available for future use. Future project plans include engaging local neighborhoods for habitat certification and greywater watering.
246	Arroyo Calabasas at Fallbrook and Hattaras	Mountains Recreation and Conservation Authority	This project is composed of several small parcels clustered around a reach of Arroyo Calabasas. Each parcel will undergo habitat enhancement, which will feature oak groves and sycamore swales, and some parcels will include a social area. Six detention areas, with total new capacity of 2.81 acre feet, and seven clean and catch swales, with total capacity of 23,400 cu. ft. will be created for the capture and filtration of stormwater and urban run-off. A 1.5 mile pedestrian path will be created on the south side of the creek which would link to the numerous schools in the area, as well as several new viewing points for local denizens to enjoy. Interpretive signage will be installed in social areas for environmental education purposes.	X	2	0	-	-	X	-	-	-	Benefits of this project include improving water quality, creating a new water supply, habitat enhancement for wildlife, and beneficial public use. The detention areas and swales are designed to filter pollutants before it reaches the Arroyo Calabasas channel. Currently, there is no system for retention and filtration of stormwater. This project would provide over 2.81 acre feet total for future public use. Creating riparian and upland habitat will greatly enhance wildlife capacity as well as provide and aesthetic enjoyment for public citizens. Social areas, pedestrian trails, and bike path will provide a beneficial open space for a neighborhood in need for parkland. Information signage will also provide environmental education to the public.

Upper Los Angeles River Subregion Projects

Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
247	Aliso Canyon and Los Angeles River Confluence	Mountains Recreation and Conservation Authority	The project site currently houses several types of land-use. These areas are integrated into the conceptual design. Two infiltration areas are planned, the community garden and an area between the existing nurseries, with a total capacity of 2 acre feet of stormwater. In compliance of the Reseda West Van Nuys community plan, flood control channels and utility easements are being considered for the park. Additionally, a bike path and equestrian trail are also planned. In compliance with the 1996 Los Angeles River Master Plan, a bridge would be built to link this site to the surrounding neighborhoods of the creek, including West Valley Park, the YMCA and the Aliso Creek trail. A social area will be created at the tip of the confluence replete with informational kiosks about the creek and native habitat. A portion of the confluence will be replaced with a terraced layback and deposition basin, increasing the Los Angeles River channel capacity by 633,000 cu. ft.	X	0.5	0	X	-	X	-	-	The project will increase Los Angeles River channel capacity by 633,00 cu. ft. thereby aiding flood control management. A public open space for small social gatherings will be created, and a bridge across the confluence will connect surrounding neighborhoods. Revegetation around the confluence will promote and enhance wildlife productivity. Also, the project will work to integrate several planning policies for a smooth redevelopment of the confluence.
248	Bell Creek Riverfront Natural Park	Mountains Recreation and Conservation Authority	This .38 acre project will include a loop trail, 20 person outdoor center, four interpretive displays, benches, picnic area, kiosk, decorative gates and fencing, drinking fountain, and restored and created riparian areas for storm water capture as well as providing habitat for Canadian geese as a resting and foraging area.	X	0.1	0	X	-	X	1	0	Detention basins and swales will be able to filter stormwater and urban runoff from the surrounding residential area. Detention basins will contribute to the necessary maintenance of the park. Part of the Pacific Flyway, the project's habitat enhancement and creation will provide Canadian geese with better foraging grounds. The project will be able to provide the surrounding neighborhood by providing a much need high quality recreational open space. With several schools surrounding the area, the site will be able to provide an outdoor space for environmental education opportunities. Additionally, signs will be placed throughout the park providing information regarding the cultural and ecological functions of the park.
249	Lederer Ranch	Mountains Recreation and Conservation Authority	The project will include swales and a detention basin to capture, filter, and detain stormwater and urban run-off. Riparian habitat will be created as well as walnut groves and other native trees will be planted to create an aesthetic atmosphere for the public as well as prime habitat for birds. Bird watching areas will also be planned into the project so that local residents can learn and enjoy the local wildlife that was once prevalent.	X	4	0	X	-	X	-	-	Detention basins and swales will be able to filter stormwater and urban runoff from the surrounding residential area. Detention basins will contribute to the necessary maintenance of the park. Part of the Pacific Flyway, the project's habitat enhancement and creation will provide a wildlife refuge, especially for birds. The project will be able to revitalize the surrounding neighborhood by providing a much need high quality recreational open space. With several schools surrounding the area, the site will be able to provide an outdoor space for environmental education opportunities. Additionally, signs will be placed throughout the park providing information regarding the cultural and ecological functions of the park.
250	Woodley Chase Open Space	Mountains Recreation and Conservation Authority	The 10.36 acre Busch Lot is located in the middle of a highly urbanized area near Busch Creek, and would be transformed into a greenway that will revitalize the neighborhood. Stormwater and urban run-off will be captured, filtered, and detained through detention basins and bioswales.	X	-	-	X	-	X	-	-	NA
251	Santa Susana Creek at MTA Corridor on Canoga Avenue	Mountains Recreation and Conservation Authority	The project site is a linear 11.4 acre stretch of unused train track on Canoga Avenue. The project plans to create three linear detention areas with a total capacity of 3.2 acre feet, and three clean and catch swales with a total capacity of 62,280 cu. ft. A walking and equestrian trail will meander through the linear park where there will be several areas available for social gatherings for local residents and children, and viewing areas. A kiosk will be placed, where the park intersects with the Santa Susana Creek, to provide environmental and cultural information of the locale.	X	1.25	0	-	-	X	-	-	The surrounding area of the project site is land-use mix of commercial, residential, and industrial. Stormwater and urban run-off, which drain into the Santa Susana Creek, are two water quality issues this project would address by creating detention areas and clean and catch swales. In addition, where there is currently no water retention, 3.2 acre feet of water would be created for future local use. The project demographic is of a high density low income neighborhood that sufficiently lacks open areas for local denizens, especially for an increasing high density of children living nearby. The project plan proposes several open areas for social gathering and play use for children. Information kiosks placed by the Santa Susana Creek would educate local neighborhoods about the benefits of conservation and habitat efforts. The project site would also link to other existing pedestrian and equestrian pathways. Benefits of a greenway within this area would be invaluable.
252	Aliso and Limekiln Creeks at Vanalden	Mountains Recreation and Conservation Authority	The project site is 18.96 acres. Because the site is already used for recreational purposes by the local neighborhoods, infiltration areas will be integrated with large open grassy areas. Infiltration areas will have a total capacity of 17,500 cu. ft. Viewing areas will be constructed by creating small hills from fill created from the construction of detention areas. Three detention areas, totaling 6.19 acre feet, will be created with the potential of creating two more that would hold an additional 2.98 acre feet. Seven clean and catch swales will be constructed with a total capacity of 38,440 cu. ft. Also, five cisterns will be placed throughout the site with a total capacity of 5,890 gallons. A sycamore bosque is also planned for habitat and viewshed enhancement.	X	40	0	X	-	X	-	-	Although the area serves as a public open space, and a de facto basin, the proposed project plans to enhance habitat value as well as create a functional filtration and detention area for stormwater and urban run-off. The total new capacity of the detention areas, infiltration areas, swales, and cisterns creates a source for future public use as well as for the maintenance of the park. Creation and enhancement of wetlands will provide better habitat for the already present killdeer and mallards. The project will also address future pollutant sources stemming from nearby commercial and industrial development.

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
253	Santa Susana Creek at Topanga Canyon and Plummer	Mountains Recreation and Conservation Authority	The project goals are to increase water retention capacity, improve water quality from urban run-off and stormwater, and creating recreational space for walking and equestrian trails, and expanding habitat for nearby wildlife corridor. Three detention areas and three swales will be strategically created throughout the site working with the natural topography. The added detention capacity equals to 3.9 acre feet, and the swale capacity is approximately 33,840 cu. ft. Additionally, nine cisterns will be created throughout the site, each holding 1,178 gallons, for collecting rainwater for future uses. This 12.3 acre site will also incorporate a bike and equestrian trail.	X	1,875	0	-	-	-	-	-	Benefits of this project include improving water quality, creating a new water supply, habitat enhancement for wildlife, and beneficial public use. The detention areas and swales are designed to filter pollutants before it reaches Arroyo Calabasas reach, and recharge groundwater supplies. Currently, there is no system for retention and filtration of stormwater. This project would provide 2.81 acre feet for future use. Habitat enhancement of an oak grove and sycamore swales will add to the ecological capacity of the area for wildlife and public enjoyment. Outdoor social gathering areas and a pedestrian walkway will add to the beneficial use of the greenway.
254	Brown's Canyon Wash at Plummer and Variel	Mountains Recreation and Conservation Authority	The goal of the project is to create a greenway that would capture and filter stormwater and urban runoff, enhance habitat for birds, and a recreational area for the surrounding neighborhood. The project site has considerable potential for stormwater storage and cleaning capacity of approximately 18.5 acre feet total. The project proposes three detention basins, five marsh grass swales, a sycamore alley, willow thickets and construction of riparian and upland habitat. In addition, sitting areas created for optimal views will be placed in key areas of the project site. A walk and bikeway will be created next to Brown's Canyon Wash linking with other parcels and optimizing the existing access roads on both sides of the channel.	X	80	0	-	-	-	-	-	Benefits of this project include improving water quality, creating a new water supply, habitat enhancement for wildlife, and beneficial public use. The detention areas and swales are designed to filter pollutants before it reaches Brown's Canyon Wash. Currently, there is no system for retention and filtration of stormwater. This project would provide 18.5 acre feet total for future public use. Creating riparian and upland habitat will greatly enhance wildlife capacity as well as provide and aesthetic enjoyment for public citizens. Social areas, pedestrian trails, and bike path will provide a beneficial open space for a neighborhood in need for parkland.
255	Brown's Canyon Wash at Route 118 and Rinaldi	Mountains Recreation and Conservation Authority	The goal of this project is to improve water quality, decrease flood risks, and restore open space for ecological and cultural benefits. The project plans to lay back the channel with terracing thereby increasing stormwater capacity and decreasing flood risks. Construction of detention areas and clean and catch swales are designed into the project to improve water quality from stormwater and runoff from the freeway as. Water quality will be monitored on an annual basis for five years. Re-creation of native riparian and upland habitats, including a sycamore-willow woodland, will increase habitat value. Renovations of pre-existing structures on the project site, such as house and stone patio, and additional modifications including view points and a walking/equestrian trail are also integrated into the project.	X	12.5	0	-	-	-	-	-	Modifying the channel by terracing will increase capacity by 197,000 cu. ft. Construction of detention areas and swales will increase capacity by 545,000 cu. ft. and 27,180 cu. ft., respectively. The detention areas and swales are designed to filter pollutants, recharge groundwater supplies, and reduce flood risks. These designs will maximize recharge of underlying groundwater aquifer and slow the peak run off flow into the Los Angeles River to improve flood management. Additionally, an increase in storage capacity will result in an increase of natural resources for surrounding wildlife and habitat. Renovations of pre-existing structures and a new trail will add to the cultural value of the project by creating a unique recreational area for surrounding neighborhoods. Also, the new walking and equestrian paths would create a continuous corridor to Joughin Ranch and the Santa Susana Mountains.
256	Washington Elementary School River Parkway	Mountains Recreation and Conservation Authority, Santa Monica Mountains Aut	Construction of an outdoor living-laboratory, infiltration basin and native plantings that will have interpretive elements regarding creek function, storm water management and watershed protection.	-	-	-	-	-	X	0	2	NA
257	Boyle Heights Green Corridor	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	The Boyle Heights Green Corridors project is a collaborative effort to bring water quality management, restoration of native riparian habitat, and recreational improvements to the densely populated Boyle Heights neighborhood. This project will focus on a right-of-way greening and the conversion of an existing storm drain into a water quality and conservation feature. After the residential runoff is collected and directed by the storm drain it will be infiltrated on the adjacent lot. A restored riparian ecosystem will further assist in the filtering and cleaning of the water. The water collected on-site will also be removed from the storm flow thereby contributing to flood control.	-	-	-	X	-	-	0	2	NA
258	Vista Hermosa Los Angeles River Watershed Restoration Park	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	Development of a park in which the natural environment will feature habitats found in the Santa Monica Mountains and the Upper Los Angeles River Watershed. Landforms will emphasize watershed processes through a stream course that captures all on-site water, marshlands, wetlands and adjoining riparian ecosystems and meadows.	-	-	-	X	-	-	0	8	NA
259	Confluence Park 2	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	Conversion of industrial land to public park including watershed restoration elements such as a cistern, non-structural BMPs, and a bioswale. Addition of visitor-serving amenities to increase public awareness of Los Angeles River restoration efforts.	-	-	-	X	-	-	0	2	NA
260	Northeast Los Angeles Open Space	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	Acquisition of last remaining undeveloped hilltop properties in northeast Los Angeles to prevent accumulation of additional runoff and pollutants in the Upper Los Angeles River Watershed. The project will result in protection and restoration of upland habitat, and increased public access.	-	-	-	-	-	-	0	10	NA

Upper Los Angeles River Subregion Projects

Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
261	Los Angeles River Greenway BMP Retrofits	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	Design and installation of structural and non-structural BMPs in five existing parks along the Los Angeles River in Elysian Valley. The BMPs will capture and treat a ¼" storm for all target pollutants.	-	-	-	X	-	X	-	-	X
262	Marsh Park	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	Retrofit three existing riverfront industrial buildings with stormwater capture system, and modify drainage of two streets to direct all runoff to a bioswale in a public park. Installation of additional visitor-serving amenities to attract higher public use and increase visibility of Los Angeles River restoration efforts.	-	-	-	X	-	-	0	2	NA
263	Pacoima Wash Greenway: 1st Street Park	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	Conversion of industrial riverfront property to public parkland including non-structural BMPs to collect and treat runoff from up to 106 acres of residential property. Addition of visitor-serving amenities to increase public awareness of Los Angeles River restoration efforts.	-	-	-	X	-	-	0	4	NA
264	Pacoima Wash Greenway: High School River Parkway	Mountains Recreation and Conservation Authority, Santa Monica Mountains Con	Restoration of riparian habitat and construction of a public trail on riverfront area adjacent to new high school. Parkway will incorporate educational materials regarding watershed restoration and protection.	-	-	-	-	-	-	0	2	NA
265	Hansen Dam Parking Lot Rehabilitation	Mountains Recreation and Conservation Authority/ Santa Monica Mountains Con	Two parking lots within the Hansen Dam Recreation area would be regraded to drain away from Hansen Lake and into a newly restored wetland. This wetland would treat stormwater runoff prior to entering the lake, and restore habitat for the threatened Least Bell's Vireo.	-	-	-	X	-	-	0	1	NA
266	Recommendation and Implementation Blueprint: groundwater recharge	Mountains Restoration Trust	To reduce dependency on imported waters, a Recharge Suitability Analysis and Recommendation and Implementation Blueprint will outline a strategy, plans, and processes for increasing groundwater recharge to protect and increase San Fernando Basin native water, and reduce impact on Bay-Delta ecosystem.	-	-	-	-	-	-	-	-	Increase and improve groundwater recharge, identify problems and protect native water San Fernando Basin, and recommend areas for groundwater recharge
267	Headwaters Corner at Calabasas	Mountains Restoration Trust and City of Calabasas	Project will educate the public on how to be better stewards of the natural resources people depend upon for quality of life. This will be achieved through a variety of programs and demonstration projects.	X	-	-	X	-	X	-	-	NA
268	Arroyo de las Pasas daylighting	NA	Daylights historical Arroyo de las Pasas through Lincoln Park.	-	-	-	X	-	X	-	-	NA
269	Hazard Park Stream Restoration	North East Trees, Earth Island Institute, Coastal Conservancy, City of LA	Restoration of a portion of a perennial stream located in Hazard Park in the city of Los Angeles. Restoration goals include water quality improvements to reduce non-point source pollution from multiple offsite location which drain to the stream.	-	-	-	-	-	X	-	-	NA
270	Well #3 Development and Expansion	Rubio Canon Land and Water Association	Installation of curtain wall across riverbed to capture surface water. Installation of new well and supply more water to other treatment plant, Install weir to measure surface flow and gain 80% of spread water	X	100	1000	-	-	-	-	-	Savings for our Customers
271	Environmental Education Camps on Angeles NF	School Districts, Grantors, ANF, Dept of Education	Replace poorly-operated and existing organization camps on ANF with upgraded residential camp facilities for school-system-run environmental education--no limits on ideas--Water treatment on site as educational tool? Native veg vs. non-native	-	-	-	-	-	-	-	-	Indirect benefits to all areas and many educated and caring residents
272	Los Angeles River watershed floodplain acquisitions	SMBRC	This project acquires and landbanks floodplain or floodprone properties, including historically floodprone properties, anywhere in the LAR watershed, stream or wetland restoration/daylighting funds, or where not immediately feasible, short-term habitat en	-	-	-	X	-	-	280	5000	NA
273	Los Angeles River watershed stream, spring and wetlands conservation easements	SMBRC	Establishes funds to secure conservation easements on the properties with streams, wetlands, or springs.	-	-	-	X	-	X	-	-	NA
274	Rim of the Valley Trail Connection: Equestrian/Pedestrian/Bicycle	The River Project	The Rim of the Valley Trail Connection will add a critical link in the Rim of the Valley Trail Corridor and allow access for area residents of the North Valley to connect to the Trail from the proposed Sylmar wide Equestrian/Pedestrian/Bike Trail loop.	-	-	-	-	-	-	0	24	additional benefits includes habitat enhancement.
275	Transmission Line Easement Project	The River Project	Project proposes to capture and infiltrate stormwater beneath existing LADWP and Utility Company power line easements for groundwater recharge and TMDL compliance and Recreation.	X	14000	28000	X	-	X	500	1000	Increases habitat and provides connectivity through underutilized land
276	Railroad ROW Improvement	The River Project	Enhancing the existing Railroad ROW for enhanced flood protection, trails, water capture, water quality, BMP's and habitat.	X	14000	23000	X	-	X	500	800	Improves aesthetics, creates habitat corridor
277	Primary Street Improvement Project: San Fernando Road, Woodman Ave, Victory Road, and Van Nuys Blvd Improvements	The River Project	Increase pervious surface on major roads by improving or creating medians with curb-cuts and installing pervious gutters for water quality, infiltration, and conservation, trash BMP's, Habitat, Urban Forest, and recreation.	X	20000	40000	X	-	X	2000	4000	Additional Plantings in Medians will increase the Urban Forest
278	Tujunga Wash Bridge Retrofit and channel expansion	The River Project	Proposal to Retrofit existing bridges to allow for greater channel width for hydrologic/habitat improvements and to allow for continuous creek adjacent circulation along the Tujunga Wash easement.	X	2500	5000	X	-	X	85	170	Opportunity to increase habitat within and outside of the channel with soft bottom and Native Plantings
279	Pacoima Wash Bridge Retrofit and channel expansion	The River Project	Proposal to Retrofit existing bridges to allow for greater channel width for hydrologic/habitat improvements and to allow for continuous creek adjacent circulation along the Pacoima Wash easement.	X	1500	3000	X	-	X	53	105	Opportunity to increase habitat within and outside of the channel with soft bottom and Native Plantings
280	Sediment Gate Addition to Hansen Dam	The River Project	Proposal to create a sediment bypass on Hansen Dam to reestablish the natural sediment transportation in the system per Corp specifications.	X	-	-	X	-	-	-	-	NA
281	Decrease Impermeability in Tujunga Watershed	The River Project	Remove impervious surfaces throughout watershed where feasible	X	-	-	X	-	-	-	-	NA

Upper Los Angeles River Subregion Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
282	Education for Conservation in Tujunga Watershed	The River Project	Produce and distribute materials to educate watershed residents about ways to conserve water: ET meters and weather sensors, native landscaping, impervious surfaces, swales, cisterns, etc.	X	-	-	X	-	-	-	-	NA
283	Equestrian BMPs in Tujunga Watershed	The River Project	Program to work with property owners through education or enforcement to implement BMPs for equestrian facilities and "backyard livestock"	-	-	-	X	-	-	-	-	NA
284	Tujunga Watershed Freeway BMP's	The River Project	Install BMPs and ET Meters on the 5/118/170/210/405 Freeways within the Tujunga Watershed and replace existing landscaping with Native Vegetation.	X	-	-	-	-	X	50	400	Increases habitat and provides connectivity through environmentally sensitive land
285	Tujunga Watershed Arundo Removal	The River Project	Removal of arundo from stream channels in the upper watershed	X	-	-	-	-	-	-	-	Improves habitat quality
286	Tujunga Watershed Management Plan Implementation	The River Project	The Tujunga Watershed Management Plan (WMP) will be completed in summer 2007. This project will support continuing stakeholder involvement and collaboration in the implementation of projects and programs outlined in the WMP.	X	-	-	X	-	X	-	-	Increases stakeholder participation in land and water stewardship through outreach and education.
287	Tujunga Ponds Habitat Enhancement & Educational Center	The River Project	This project proposes to improve the existing Tujunga Ponds area with native plantings, passive recreation trails and watershed education facilities.	-	-	-	-	-	-	-	-	NA
288	Watershed-U Tujunga	The River Project	This educational project would continue the successful Watershed U-Tujunga training program for the Tujunga Watershed annually. Watershed U is designed to increase awareness of, and communication among watershed stakeholders, and to engage local decision	X	-	-	X	-	X	-	-	Increases stakeholder participation in land and water stewardship through outreach and education.
289	CBS/Viacom Radio Regional Park	The River Project	Proposal to provide a Community Park for park-poor area residents and act as a detention basin during storm events.	X	280	550	X	-	X	10	20.9	increase habitat through native plantings and decrease pesticides used on lawns
290	Valley Glen Pocket Park and Swale Network	The River Project	Proposal to create a pocket park for stormwater capture, passive/active recreation and to improve water infiltration on adjacent roads that currently do not have curbs and gutters via a swale network with native plantings	X	14	28	X	-	X	0.5	1	improves aesthetic creates habitat corridor and can be used as an outdoor classroom/community garden.
291	Valley Glen Community Park Retrofit	The River Project	Proposal to retrofit existing park for stormwater capture, improve water collection on roads after storm events, decrease mosquito habitat and plant native plantings	X	56	170	X	-	X	2	6.6	increase habitat through native plantings and decrease pesticides used on lawns
292	Sediment Gate Addition to Big Tujunga Dam	The River Project	Proposal to create a sediment bypass on the Big Tujunga Dam to reestablish the natural sediment transportation in the system per Corp specifications.	X	-	-	X	-	-	-	-	NA
293	Outdoor Community Living Rooms	The Verde Coalition	Acquisitions and development of mini parks in densely populated working class neighborhoods that serve dual function: to create community socializing space while providing environmental benefits of capturing & filtering runoff, & utilizing native and low-water using plants. Ten Living Rooms are currently in progress.	X	-	-	X	-	X	60	0	NA
294	Watershed U.- Sun Valley	UC Cooperative Extension	This educational project would develop a Watershed U. training program for Sun Valley. Watershed U. is designed to increase communication among watershed stakeholders, and to engage local decision makers in the process. In Sun Valley, we would highlight the work of the County of Los Angeles, Tree People, and other partners to find innovative ways to manage flooding and other issues in this urban watershed.	-	-	-	-	-	-	-	-	Increase stakeholder participation in land and water stewardship through outreach and education.
295	Watershed U. - Topanga Creek	UC Cooperative Extension	This educational project would develop a Watershed U. training program for Topanga Creek. Watershed U. is designed to increase communication among watershed stakeholders, and to engage local decision makers in the process.	X	-	-	-	-	X	-	-	Increase stakeholder participation in land and water stewardship through outreach and education.
296	Watershed U. - Los Angeles River	UC Cooperative Extension	This educational project would develop a Watershed U. training program for the mainstem Los Angeles River. Watershed U. is designed to increase communication among watershed stakeholders, and to engage local decision makers in the process.	-	-	-	-	-	-	-	-	Increase stakeholder participation in land and water stewardship through outreach and education.

Upper San Gabriel and Rio Hondo River Subregion Projects													
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description	
208	Trash Removal Subregional Solution - Upper Rio Hondo 1	Los Angeles County Flood Control District	Develop a subregional trash capture BMP for the RIO_HONDO subwatershed in compliance with the LAR Trash TMDL	-	-	-	-	-	-	-	-	-	NA
209	Trash Removal Subregional Solution - Upper Rio Hondo 2	Los Angeles County Flood Control District	Develop a subregional trash capture BMP for the RIO_HONDO subwatershed in compliance with the LAR Trash TMDL	-	-	-	-	-	-	-	-	-	NA
210	San Jose Creek TMDL Project Concept	Los Angeles County Flood Control District	Develop a project concept exploring multipurpose alternatives to address upcoming TMDL requirements in San Jose Creek. SCE has right-of-way along the south side of San Jose Creek. Their property may be used to implement Best Management Practices (BMPs) to treat storm water before it enters San Jose Creek.	-	-	-	X	-	X	0	50	-	NA
211	San Jose Creek Bike Trail Phase III	Los Angeles County Flood Control District	Potential expansion of the existing San Jose Creek Bike Trail, beginning along the southern bank of the creek from the San Gabriel River traveling east to Cal Poly Pomona and to Claremont along Thompson's Creek (a San Jose Creek tributary).	-	-	-	-	-	-	-	-	-	NA
212	San Jose Creek Bike Trail Bridge	Los Angeles County Flood Control District	This multi-use bridge would be part of a project to expand the San Jose Creek Bike Trail system. The bridge would connect bicyclists and pedestrians from the south bank of San Jose Creek with the north bank and the San Gabriel River Bike Trail.	-	-	-	-	-	-	-	-	-	NA
213	San Gabriel River Bike Trail Bridge	Los Angeles County Flood Control District	Develop a multi-use bridge to connect El Monte, South El Monte, and unincorporated LA County communities with the San Gabriel River Trail, the San Jose Creek Trail and the Duck Farm.	-	-	-	-	-	-	-	-	-	NA
214	Laguna Retention Basin	Los Angeles County Flood Control District	Presently the Laguna Retention Basin is used only for flood control purposes. This project is an opportunity to utilize multi-objective planning in a region that is presently park-deficient. ELA Holistic Watershed Study will consider implementation of this project.	-	-	-	-	-	-	-	-	-	NA
215	Walnut Spreading Basin Cleanout	Los Angeles County Flood Control District	Remove approximately 10,000 cubic yards of accumulated sediment from the Walnut Spreading Basin.	X	1000	0	-	-	-	-	-	-	NA
216	LACDA Project - Stormwater Management Plan	Los Angeles County Flood Control District	In cooperation with the Corps of Engineers, develop a hydraulic/hydrologic model(s) for the Los Angeles and San Gabriel River watersheds. Following development of a model, a plan will be developed to ensure future developments do not compromise the authorized level of flood protection in the LACDA Project area.	-	-	-	-	-	-	-	-	-	NA
217	Puddingstone Wetland	Los Angeles County Flood Control District	Construct wetlands to treat low-flows from Live Oak Wash, Marshall Canyon, and Puddingstone channels prior to discharge into Puddingstone Reservoir to enhance water quality and beneficial uses of the reservoir. The project will also provide passive/low impact recreational opportunities including trails with interpretive signage and outdoor classroom settings.	-	-	-	X	-	X	0	45	-	NA
218	Citrus and Ben Lomand Spreading Grounds – Interconnecting Pipeline	Los Angeles County Flood Control District	Construct a pipeline from Ben Lomand to Citrus Spreading Grounds.	X	1000	0	-	-	-	-	-	-	NA
219	Citrus Spreading Grounds Telemetry Improvements, Landscaping Improvements a	Los Angeles County Flood Control District	Install at Citrus Spreading Grounds telemetry at uppermost intake gates and link with current rubber dam telemetry at the facility; improve existing landscaping around the facility's perimeter; establish bike path along facility's existing paved access road; construct a 1.8-mile long porous pavement bike path along Big Dalton Wash between Barranca and Cerritos Avenues; replace existing pedestrian footbridge at school; plant trees along bike path to match existing trees at spreading grounds.	-	-	-	-	-	X	15	0	-	2 miles of bike path
220	Arrow Hwy Trail Connection	Los Angeles County Flood Control District	Develop a safer passage across Arrow Highway for SGR Bike trail users. Alternatives include building a new bridge over Arrow Highway, or going underneath through an existing tunnel, which needs repairs.	-	-	-	-	-	-	-	-	-	NA
221	Traffic Flow Improvements around Santa Fe Dam Recreation Area	Los Angeles County Flood Control District	LADPW proposed this study of vehicular traffic circulation patterns to identify improvements that will enhance public safety & improve pedestrian and bicycle access near the Santa Fe Dam Recreation Area.	-	-	-	-	-	-	-	-	-	NA
222	Live Oak Spreading Grounds Intake Improvements	Los Angeles County Flood Control District	Create a retention/recharge facility behind the headworks of the Live Oak Wash Channel, which is adjacent to Live Oak Spreading Grounds.	X	100	0	-	-	-	-	-	-	NA
223	San Dimas Spreading Grounds Restoration	Los Angeles County Flood Control District	Restore the spreading basins that were washed out by the Jan 2005 Storm. New basins will be configured for more efficient operation; a bypass channel will be included to minimize large storm impacts to basins in the future.	X	1000	0	-	-	-	-	-	-	NA
224	San Gabriel Dam - Spillway Rubber Dam	Los Angeles County Flood Control District	San Gabriel Dam is located in the Angeles National Forest, above the City of Azusa, in the Upper San Gabriel Canyon. Dam releases recharge the Lower San Gabriel Canyon, Main San Gabriel and Central Basins.	X	1000	0	-	-	-	-	-	-	NA
225	San Gabriel Canyon Spreading Grounds	Los Angeles County Flood Control District	This project will study possibilities for providing landscaping, native habitat restoration, decorative fencing, interpretive signage, trails and other park amenities for public enjoyment and education. The 165-acre site project will be compatible with the groundwater recharge function of the two basins. Due to the deepness of the two basins, and the fact that it is a major water supply for Azusa, health and safety issues will be key project determinants.	-	-	-	-	-	-	-	-	-	NA
226	Zanjero Park at San Gabriel Canyon Spreading Grounds	Los Angeles County Flood Control District	This project will open a portion of the San Gabriel Canyon Spreading Grounds water conservation facility for public use by creating Zanjero Park. Improvements will include the restoration and expansion and enhancement of an existing watercourse, scenic open space, native landscaping, educational and interpretive signage. The park will serve as a rest stop for hikers, bicyclists and Angeles Forests visitors and as an integral part of planned passive recreational improvements in the area.	-	-	-	-	-	X	0	2	-	NA
227	Santa Anita Debris Dam Seismic Rehabilitation	Los Angeles County Flood Control District	The Santa Anita Debris Dam Seismic Rehabilitation Project will upgrade the debris dam to comply with DSOD's requirements for seismic stability. Our consultant has developed three concepts for the rehabilitation: (1) a full rehabilitation consisting of relocation of the spillway and a new outlet tower; (2) a partial rehabilitation consisting of lowering the spillway invert to remove the debris dam from DSOD's jurisdiction and constructing a trash rack across the span of the spillway to provide sufficient sediment capacity; and (3) debris retention which consists of strengthening the outlet tower and spillway walls. The operating guidelines will be modified for maximum water conservation benefits.	-	-	-	-	-	-	-	-	-	The rehabilitation of Santa Anita Debris Dam will mitigate for seismic deficiencies to allow for additional flexibility in the operating guidelines for the debris dam. This will increase water conservation benefits in the East Raymond Basin. Surface runoff will be managed to increase the recharge in the Santa Anita Spreading Grounds for future use by the Cities of Arcadia and Sierra Madre.
228	Eaton Spreading Grounds Intake Improvements	Los Angeles County Flood Control District	Install a rubber dam in Eaton Wash channel to direct flows into Eaton Wash Spreading Grounds. The rubber dam would replace the current method of utilizing sandbags.	X	100	0	-	-	-	-	-	-	NA
229	Morris Dam Water Supply Enhancement Project	Los Angeles County Flood Control District	Project entails physical modifications to the Morris Dam Inlet/Outlet Works and control systems to facilitate a lower operational reservoir pool and the reliable conjunctive management of the resulting increased conserved water.	X	5720	0	-	-	-	-	-	-	NA
230	Sediment Management Plan (San Gabriel Canyon)	Los Angeles County Flood Control District	Implement sediment management plan for removing sediment that has accumulated behind both the San Gabriel Dam and the Morris Dam. In the wake of the 2002 Curve and Williams Fires, LACDPW is planning to undertake a 5-million cubic yard emergency clean out of San Gabriel Reservoir to be completed in 2006. Routine cleanouts will continue subsequently.	-	-	-	-	-	-	-	-	-	NA
231	Santa Anita Dam and Santa Anita Debris Basin Seismic Rehabilitations	Los Angeles County Flood Control District	These projects will encompass the County of Los Angeles Department of Public Works' portion of the East Raymond Basin Water Resources Program's (ERBWRP) projects.	X	1000	0	-	-	-	-	-	-	NA

Upper San Gabriel and Rio Hondo River Subregion Projects													
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description	
275	Wildwood Canyon-San Dimas	RMC	Acquisition of San Dimas portion of Wildwood Canyon for habitat & open space.	X	-	-	-	-	-	-	-	-	NA
276	Pellissier Trailhead	RMC	Owner/developer of adjacent site would like to develop this property as a pocket park for recreation use, including a bench & hitching post for equestrians.	-	-	-	-	-	-	-	-	-	NA
277	East LA Multipurpose Projects	RMC	The unincorporated ELA area has a serious shortage of open space. There are many potential projects which staff has identified for further investigation including, but not limited to: landscape and open space buffers adjacent to proposed light rail staging areas, cultural and historical interpretation of cemeteries, remnant wetlands adjacent to Obregon Park, open space improvements to the Whittier Blvd. commercial corridor. Staff proposes to incorporate analysis of potential projects as part of our work program development.	-	-	-	-	-	-	-	-	-	NA
278	Holistic Watershed Plan for East L.A.	RMC	Development of a plan to integrate unused and underutilized public properties back into the city as open space. RMC Board approved resolution for NPS technical assistance grant.	-	-	-	-	-	-	-	-	-	NA
279	Civic Center Park Relocation Project	RMC	NA	-	-	-	-	-	-	-	-	-	NA
280	Chadwick Property	RMC	NA	-	-	-	-	-	-	-	-	-	NA
281	Regional Bike Path Extension	RMC	NA	-	-	-	-	-	-	-	-	-	NA
282	Bodkin/Kissak Property	RMC	Acquisition for habitat, open space & passive recreation.	-	-	-	-	-	-	-	-	-	NA
283	Bradbury Habitat and Open Space	RMC	There are several undeveloped parcels within the City of Bradbury jurisdiction which are part of the wildlife corridor connection along the San Gabriel Foothills. It is also possible that these parcels are necessary for an east-west trail corridor.	-	-	-	-	-	-	-	-	-	NA
284	Subsequent Plans: Habitat, River/Tributaries, Monitoring and Assessment	RMC	Development of RMC's subsequent plans based on applicable regional and local plans.	-	-	-	-	-	-	-	-	-	NA
285	North Facing Slope of San Gabriels	RMC	NA	-	-	-	-	-	-	-	-	-	NA
286	Well #3 Enhancement	Rubio Canon Land and Water Assoc	Install curtain wall below well #3 to capture surface water from Rubio Canyon. Drill well to boost stream water to treatment plant. Well provides additional water for Rubio.	-	-	-	-	-	-	-	-	-	NA
287	Enhancement of Canyon Collection System	RUBIO CANON LAND AND WATER ASSOC.	the proposed project will include the installation of a weir, grout curtain, upgrade well #3, drill and equip a new water supply well and install appurtenant plumbing and distribution piping from the new well to convey water to the existing water treatment plant. In so doing the water supply derived from the canyon should significantly increase.	-	-	-	-	-	X	0	20	-	NA
288	Emerald Necklace Segment A:Alhambra Wash to Eaton Wash	San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy, Amigos de L	Landscaping, restoring & beautifying areas along Rio Hondo	-	-	-	-	-	-	-	-	-	NA
289	Emerald Necklace Segment B:Eaton Wash to S. Edge of Peck Pk	San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy, Amigos de L	Landscaping, restoring & beautifying areas along Rio Hondo	-	-	-	-	-	-	-	-	-	NA
290	Emerald Necklace Segment D:San Gabriel River to Walnut Creek	San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy, Amigos de L	Landscaping, restoring & beautifying areas along Rio Hondo	-	-	-	-	-	-	-	-	-	NA
291	Emerald Necklace Segment C: Peck Rd Water Conserv. Pk to SGR	San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy, Amigos de L	Restore and beautify 6 acres & include community park	-	-	-	-	-	-	-	-	-	NA
292	Arcadia Wash Naturalization Project	San Gabriel & Lower Los Angeles Rivers & Mountains Conservancy, Amigos de L	Develop design and construction drawings to naturalize parts of the channel that passes through the LA County Arboretum, Santa Anita Park and Golf Course. Other features include native landscaping, a trail, benches, educational signage, bridges, and other amenities.	-	-	-	-	-	-	-	-	-	NA
293	Northrop Grumman S11 & S12 Shallow Zone Extraction	San Gabriel Basin Water Quality Authority	The project is a groundwater treatment facility.	X	0	16	X	-	-	-	-	-	NA
294	United Technologies Corporation Puente Valley Operable Unit Shallow Zone Re	San Gabriel Basin Water Quality Authority	The project is a groundwater treatment facility.	X	0	242	X	-	-	-	-	-	NA
295	San Gabriel Valley Water Company Plant B7	San Gabriel Basin Water Quality Authority	The project is a groundwater treatment facility.	X	0	137	X	-	-	-	-	-	NA
296	Northrop Grumman Puente Valley Operable Unit Intermediate Zone Remedy	San Gabriel Basin Water Quality Authority	The project is a groundwater treatment facility.	X	0	242	X	-	-	-	-	-	NA
297	San Gabriel Valley Water Company Plant B5	San Gabriel Basin Water Quality Authority	The project is a groundwater treatment facility	X	0	1256	X	-	-	-	-	-	NA
298	Golden State Water Company Wells SG1 and SG2 Perchlorate Treatment Facility	San Gabriel Basin Water Quality Authority	The project is a groundwater treatment facility.	X	0	403	X	-	-	-	-	-	NA

Upper San Gabriel and Rio Hondo River Subregion Projects													
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description	
376	Glendora Basin Conjunctive Use Project	TVMWD, City of Glendora, & Main San Gabriel Basin Watermaster	Extension of Three Valleys PM-26 untreated water svc.	X	0	1000	-	-	-	-	-	NA	
377	Six Basins & Chino Basin Conjunctive Use Program Enhancement	TVMWD, Inland Empire Utilities Agency, Six Basins Watermaster, Chino Basin	Replenishment connection to SGVMWD's Azusa Devil's pipeline	X	0	1000	-	-	-	-	-	NA	
378	Foothill Basin Conjunctive Use Project	TVMWD, MWD, & Golden State Water Co.	New untreated water svc connection off MWD Foothill feeder.	X	0	3600	X	-	-	-	-	NA	
379	CIC Surface and GW Treatment Project	TVMWD, USGVMWD, Covina Irrigating Co.	Upgrade of CIC tmt plant	X	0	5000	X	-	-	-	-	NA	
380	Fulton Plant GW Treatment Project	TVMWD, Walnut Valley W.D., Rowland W.D.	New GW well w/ ion exchange wellhead treatment & storage	X	0	1500	X	-	-	-	-	NA	
381	Watershed U. - Rio Hondo	UC Cooperative Extension	This educational project would develop a Watershed U. training program for Rio Hondo. Watershed U. is designed to increase communication among watershed stakeholders, and to engage local decision makers in the process.	X	-	-	X	-	X	-	-	Increase stakeholder participation in land and water stewardship through outreach and education.	
382	Gravel Pits Reclamation/Study	UP_SG_RVR MWD, RMC, Sierra Club, RMC	Determine potential as new open space for restoration, habitat, and economic development	-	-	-	-	-	-	-	-	NA	
383	San Gabriel Valley Water Recycling Direct Reuse Project (Phase III - Future)	Upper San Gabriel Valley Municipal Water District	Phase III will supply about 2,500 acre-feet per year (AFY) of recycled water to future customers such as Southern California Edison, Caltrans, City of El Monte, City of South El Monte, City of Irwindale and potentially the City of Arcadia. The project will be supplied by the Whittier Narrows Water Reclamation Facility, which is owned and operated by the Los Angeles County Sanitation District via the Phase IIA project.	X	2500	0	X	2.2	X	2500	0	NA	
384	San Gabriel Valley Water Recycling Direct Reuse Project (Phase IIA - Expansion)	Upper San Gabriel Valley Municipal Water District	Phase IIA expansion will wholesale recycled water from the Whittier Narrows Water Reclamation Facility owned and operated by the Los Angeles County Sanitation District initially to two (2) potential customers (Whittier Narrows Golf Course and South El Monte High School) in the South El Monte and Whittier Narrows Area. Phase IIA expansion will supply about 750 Acre-feet per year (AFY) of recycled water and will conserve about 700 AFY of potable water and groundwater by reducing the demand on groundwater and imported water supply for irrigation purposes	X	1000	0	X	0.7	X	700	0	Irrigation for turf and landscape.	
385	San Gabriel Valley Water Recycling Direct Reuse Project (Phase IIB - Existing)	Upper San Gabriel Valley Municipal Water District	Phase IIB is part of a planned multi-agency recycled water facility expansion. The facility expansion includes the construction of delivery facilities, inter-agency pipelines, pump stations, storage reservoirs and system appurtenances. Phase IIB will expand to the City of Industry, Rowland Water District, Suburban Water Systems, Walnut Valley Water District.	X	3700	0	X	3.3	X	3700	0	NA	
386	S. G. Riv. Environmental Graphic Design Services Program	Upper SG Riv WS, RMC	NA	-	-	-	-	-	-	-	-	NA	
387	Watershed Coordinated Invasives Management	Upper SG Riv WS, RMC	Education targeting technical, legislative, and public audience to initiate science based programs, demo projects, and other programs. Mapping, monitoring, analysis, GIS data collection will be included.	-	-	-	-	-	-	-	-	NA	
388	Forest Master Plan Update	USFS	4 southern National Forests including Ageles, San Bernardino, Los Padres and Cleveland are updating their Master Plans. Plans address issues of resource mgt, recreational access issues, habitat & other concerns of forest stakeholders.	-	-	-	-	-	-	-	-	NA	
389	Hwy 39/San Gabriel River Recreation Needs Assessment	USFS, Caltrans, SGMRC	SGRMC is developing a proposal to address issues relating to high usage along the Hwy 39 area of the river, for a Prop 13 Nonpoint Source Pollution grant. A needs assessment study will explore current recreational usage & needs as well as potential impacts on habitat & water quality.	-	-	-	-	-	-	-	-	NA	
390	Main San Gabriel Basin Groundwater Cleanup	USGVMWD	Construction of VOCs treatment facilities w/in USGVMWD's service area.	-	-	-	-	-	-	-	-	NA	
391	Main San Gabriel Basin Recharge	USGVMWD	Replace imported SPW with reclaimed water from San Jose Creek WRP Stage III to prevent long-term groundwater overdraft of the basin.	X	0	10000	-	-	-	-	-	NA	
392	Synthetic Turf Athletic Fields	USGVMWD	Installation of five synthetic turf as an alternative to natural turf on athletic fields at schools.	X	60	0	-	-	-	-	-	NA	
393	Whittier Narrows Recreation Area	USGVMWD	Reclaimed water supply to Whittier Narrows Recreation Area, Golf Course, and Legg Lake from Whittier Narrows WRP. Potential extensions to more users and possibly City of Arcadia.	X	0	4650	-	-	-	-	-	NA	
394	Surface Water Treatment Plants	USGVMWD	Construction of Surface Water Treatment Plants in the vicinity of the Rio Hondo Coastal Spreading Grounds. Water in the Rio Hondo Spreading Grounds can be pumped out, diverted to Surface Water Treatment Plants and then delivered to customers.	-	-	-	-	-	-	-	-	NA	
395	San Gabriel Valley Water Recycling Direct Reuse Project (Phase I - Existing)	USGVMWD	Phase I currently wholesales approximately 1,000 Acre-feet per year (AFY) of recycled water to San Gabriel Valley Water Company which is the local purveyor supplying Mill Elementary School, Gateway Park Industrial Park, Rio Hondo College, Rose Hills Memorial Park	X	1000	0	X	0.9	X	1000	0	Irrigation of turf and landscape.	
396	San Gabriel Valley Water Recycling Direct Reuse Project (Phase I - Extension)	USGVMWD	Phase I extension will expand the current regional pipeline to a potential carpet mill located in the City of Industry with a potential demand of 600 Acre-feet per year (AFY) of recycled water to this potential customer via the local purveyor of San Gabriel Valley Water Company.	X	600	0	X	0.5	X	600	0	Irrigation of landscaping	
397	San Gabriel Valley Water Recycling Direct Reuse Project (Phase I - Expansion)	USGVMWD	Phase I expansion will expand the current supply of recycled water from regional pipeline to Gates 15 and 17 of the Rose Hills Memorial Park located in the unincorporated portions of Los Angeles County and the City of Whittier. These areas have a potential demand of 600 Acre-feet per year (AFY) of recycled water which will be supplied via a local purveyor San Gabriel Valley Water Company.	X	600	0	X	0.5	X	600	0	Irrigation for landscaping	

Lower San Gabriel and Los Angeles River Subregion Projects													
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits	
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description	
1	Avalon Gardens Community Garden Creekside Interface	Avalon Gardeners	This project will enhance the interface between the newly created Avalon gardens and the Compton Creek.	X	-	-	-	-	-	-	-	-	NA
2	Compton Creek Bike Trail: Alameda Gateway Connector (CIP#06-09)	CCTF	Trail: Tree Planting, Native Plants, Public Education	-	-	-	-	-	X	-	-	-	NA
3	Southeast Water Reliability Project	Central Basin MWD	System expansion that will loop the Rio Hondo (Torres) and Century (Ibbetson) systems for flow reliability.	X	0	5600	-	-	-	-	-	-	NA
4	Landscape Irrigation Classes	Central Basin MWD	This project proposes to offer landscape irrigation classes to the residents and customers within Central Basin MWD's service area to educate them about using less water and planting native plants instead of non-native, exotics that require much more water for growth.	-	-	-	-	-	-	-	-	-	Education
5	Synthetic Turf Program 3	Central Basin MWD	Central Basin hopes to expand Metropolitan Water District's Synthetic Turf Program by implementing it within its own service area.	-	-	-	-	-	-	-	-	-	Conservation
6	Weather-Based Irrigation Controller Program 4	Central Basin MWD	This project proposes to install Weather-Based Irrigation Controllers (WBICs) to reduce the amount of water that is used for landscape irrigation.	-	-	-	-	-	-	-	-	-	Conservation
7	Conductivity Controller Incentives	Central Basin MWD	This program provides prescriptive incentives for installation of conductivity and pH controllers.	X	0	90	-	-	-	-	-	-	NA
8	Industrial Process Audits and Incentives Program	Central Basin MWD	The program would facilitate the increase of process water use reduction and reuse technologies.	-	-	-	-	-	-	-	-	-	NA
9	Laundromat Retrofit	Central Basin MWD	This Program offers substantial incentives from multiple utilities to replace non-efficient washers and dryers with more efficient ones.	X	0	10	-	-	-	-	-	-	NA
10	Medical Facilities Retrofit Program	Central Basin MWD	This program would replace current equipment used at medical facilities with water efficient products. Such as; film processor recirculation systems, pre-rinse spray valves, high efficiency toilets, conductivity controllers for cooling towers.	-	-	-	-	-	-	-	-	-	NA
11	Supermarket Retrofit Program	Central Basin MWD	This program would replace current equipment used in supermarkets with water efficient products. Such as; pre-rinse spray valves, high efficiency toilets, water brooms and conductivity controllers for evaporative condensers.	-	-	-	-	-	-	-	-	-	NA
12	CBMWD/WBMWD Recycled Water Distribution Interconnection	Central Basin MWD	This project will connect the separate, but existing recycled water systems by cross-jurisdictional boundaries which will enable more recycled water to be distributed over both regions.	X	5000	20000	X	11	-	-	-	-	NA
13	Lynwood-South Gate Lateral Connection	Central Basin MWD	This project proposes to extend lateral lines off of the existing Central Basin Water Recycling distribution line to provide recycled water to customers in these cities.	-	0	1200	X	-	-	-	-	-	NA
14	Southeast Water Reliability Project Lateral Distribution Connections	Central Basin MWD	This project proposes to construct recycled water laterals to the cities of Vernon, Pico Rivera, Montebello, and portions of the City of Los Angeles and Los Angeles County to customers for the use of recycled water.	X	7000	8000	X	-	-	-	-	-	NA
15	Central Basin MWD/UP_SG_RVR Valley Municipal Water District Interconnection	Central Basin MWD	This project proposes to connect the Central Basin Water Recycling System to serve the cities within the San Gabriel Valley with recycled water. The interconnection will occur in the City of Montebello.	-	0	3000	X	-	-	-	-	-	NA
16	Water Quality Protection Project (WQPP)	Central Basin MWD	This project includes the remediation of a groundwater contamination plume located in the Whittier Narrows area and includes operation of wells that extract the trichloroethylene and perchloroethylene.	-	-	-	-	5	-	-	-	-	NA
17	Watts Gateway, Phase II	City Councilmember Janice Hahn	Beautification: Tree Planting, Native Plants, Public Education, Source Control	-	-	-	X	-	-	-	-	-	NA
18	Watts Gateway	City Councilmember Janice Hahn	Beautification: Tree Planting, Native Plants, Public Education, Source Control	-	-	-	-	-	X	-	-	-	NA
19	Bellflower Water System Improvement Program	City of Bellflower	This program will provide for the funding of the City's Water System Improvement Program comprised of a Water Master Plan Update, a Well Abandonment Program, a Pipeline Improvement Program, a System Interconnection Pipeline, a share in a Reservoir, MWD Connection and Water Supply Well, as well as a Fire Hydrant Replacement Program and Meter and Service Replacement Program.	X	100	1000	-	-	-	-	-	-	NA
20	NPDES Permit Compliance	City of Bellflower	Implement strategies like structural controls, hard construction, monitoring and education to meet tmdls.	-	-	-	X	-	-	-	-	-	NA
21	NPDES Permit Special Studies	City of Bellflower	To complete special studies required in the 12/2006 NPDES Permit	-	-	-	X	-	-	-	-	-	NA
22	Riverview Park	City of Bellflower	15 acre passive park adjacent to SG River bike path	-	-	-	-	-	X	0	15	-	NA
23	Sanitary Sewer Replacement MP	City of Bellflower	Repair and replace sewer system per Water Resources Control Board WDR for SSOs.	-	-	-	X	-	-	-	-	-	NA
24	Compton Creek Equestrian Trail, Phase I	City of Compton	Project will be located on the W. side of the Compton Creek within the City of Compton. Water quality concerns (bacteria) will be addressed by proper trail construction and maintenance practices.	-	-	-	X	-	X	-	-	-	Community participation--community members are interested in performing trail maintenance
25	Raymond Street Park renovation (including Baseball field)	City of Compton	NA	-	-	-	-	-	X	-	-	-	NA
26	Edison Transmission Corridor Multi-Use Trail	City of Compton	Transmission corridor running from Hemingway Park in Carson, through Compton on Greenleaf Boulevard, crossing the Compton Creek, and ultimately running to the LA River.	X	-	-	X	-	X	-	-	-	regional transportation connections
27	Compton Creek Camera Monitoring and Lighting--Compton City	City of Compton	Project will be located along the Compton Creek Bike Trail near Compton High School, between Alondra Bl and Compton Bl	-	-	-	-	-	-	-	-	-	NA
28	Central Avenue Brick Yard	City of Compton	This large site has been used to dig clay out of the ground to make and store bricks. Now the City of Compton is taking the first steps towards re-zoning the site and attracting new development.	X	-	-	X	-	X	-	-	-	Potential for economic development
29	Gonzales Park Addition, Pedestrian Bridge, & Mural	City of Compton	Located at the future Horse Trail along the West Bank of the Compton Creek, this under-utilized corner of the existing Gonzales Park will be converted to a neighborhood that was previously cut off from the park	-	-	-	X	-	X	-	-	-	Transportation, connectivity
30	Cudahy River Drive Beautification	City of Cudahy	The project involves developing river front park(s) along River Drive Road, engaging and educating residents living in Cudahy about stormwater issues through a community mural, and providing a stormwater filtration system to help improve water quality in the County of Los Angeles River.	-	-	-	-	-	-	-	-	-	NA
31	City of Downey Groundwater Treatment Plant Project	City of Downey	Construct 25 MGD groundwater treatment plant at City-owned maintenance yard site. Need for treatment plant identified in City's 2003 Groundwater Master Plan.	X	0	17000	X	25	-	-	-	-	Remove contaminants that may otherwise threaten downgradient water purveyor groundwater supplies.
32	City of Downey Groundwater Well Supply Reliability Project	City of Downey	Design and construction of three 3,000 gpm deep aquifer groundwater wells and associated pipelines and appurtenances. New wells will replace old shallow wells that are susceptible to future surface and shallow aquifer contamination.	X	0	8000	-	-	-	-	-	-	New wells will provide additional pumping capacity required to meet future growth projections, thus eliminating the future need for treated MWD imported water.

Lower San Gabriel and Los Angeles River Subregion Projects													
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33	Lakewood Boulevard and Florence Avenue Reclaimed Water Improvement Project	City of Downey	Design and extension of a reclaimed water main and associated facilities along Lakewood Boulevard from Fifth St. north to Telegraph Rd. and from the San Gabriel River west to Lakewood Blvd.	X	0	85	-	-	-	-	-	20% savings to reclaimed water users versus potable water	
34	Furman Park Storm Drain Detention/Infiltration Project	City of Downey	Design and construction of a storm drain and detention/infiltration system to alleviate flooding from under capacity trunk lines, and capture, treat, and store stormwater runoff within Central Groundwater Basin Aquifers.	X	0	20	X	-	-	-	-	Alleviate flooding within the City of Downey and areas downstream	
35	Furman Park/Rio Hondo Elementary School Reclaimed Water Main Extension and	City of Downey	Design and construction of reclaimed water irrigation improvements at Furman Park and extension of a reclaimed water main and associated facilities along Quinn St. from Rio Hondo Golf Course east to Furman Park and Rio Hondo Elementary School.	X	0	56	-	-	-	-	-	20% savings to reclaimed water users versus potable water	
36	Dennis The Menace Park Storm Drain Detention/Infiltration Project	City of Downey	Design and construction of a storm drain and detention/infiltration system to capture, treat, and store stormwater runoff within Central Groundwater Basin Aquifers.	X	0	6	X	-	-	-	-	Alleviate flooding within the City of Downey and areas downstream	
37	Reservoir Rehabilitation; Cottage ground and Cottage elevated reservoirs, S	City of Huntington Park	Replace two ground and one elevated reservoirs, associated pump houses, 16 water strippers.	X	1	100	-	-	-	-	-	reliability	
38	Colorado Lagoon	City of Long Beach, Coastal Conservancy	The lagoon is part of the historic Los Cerritos Wetlands complex. It is a saltwater body that was created by dredging a mudflat and is connected by tide gate to Alamitos Bay through the Marine Stadium. The property is owned by the City of Long Beach and m	-	-	-	-	-	-	-	-	NA	
39	Los Cerritos Wetland Acquisition	City of Long Beach, Parks, Recreation and Marine Department	Acquire the Bixby Ranch Co. portion of the Los Cerritos Wetland. This is the largest remaining privately owned wetland property in the San Gabriel River Estuary.	-	-	-	X	-	X	-	-	NA	
40	RiverLink Overlooks	City of Long Beach, Parks, Recreation and Marine Department	The Los Angeles River Trail (LA RIO Trail) is a regional bicycle and pedestrian trail on the east bank of the Los Angeles River on top of the levee. Recreational usage would be greatly expanded if amenities such as shade, and rest areas were provided. This project would provide those amenities by widening the top of the levee for rest and overlook areas with shade canopies, spaced approximately 1 mile apart in Long Beach.	-	-	-	-	-	X	-	-	NA	
41	Long Beach Sports Park Wetland Restoration	City of Long Beach, Parks, Recreation and Marine Department	Remove concrete lined storm water detention basin and restore original naturalized streambed enhanced to equal storm detention capacity, and planted with Los Angeles River Watershed native wetland and riparian plants. Amenities will include pedestrian trails and educational displays. Vegetated swales will collect and direct on-site runoff to the stream.	-	-	-	X	-	X	-	-	NA	
42	Bouton Creek Channel Stream Restoration	City of Long Beach, Parks, Recreation and Marine Department	Bouton Creek is a box culvert storm drain channel that is adjacent to Bouton Creek and Whaley Parks. This project would remove the concrete bottom and one side to terrace the channel into the park and allow planting with native marsh and riparian plants.	X	-	-	X	-	X	-	-	NA	
43	DeForest Wetland Water Reclamation	City of Long Beach, Parks, Recreation and Marine Department	Reclaim wastewater from the Los Angeles River and urban runoff through a treatment wetland for use in irrigation in DeForest Park.	X	-	-	-	-	-	-	-	NA	
44	Drake/Chavez Greenbelt Wetland Habitat Restoration	City of Long Beach, Parks, Recreation and Marine Department	Restore a wetlands habitat to part a 25-acre greenbelt being developed adjacent to the Los Angeles River between Drake and Chavez Parks. The site is adjacent to the Los Angeles River Estuary and the proposed wetland would be a tidal influenced saltwater marsh. Pedestrian trails with educational displays, developed in cooperation with the Aquarium of the Pacific, will be included.	-	-	-	-	-	X	-	-	NA	
45	Heather Creek and Los Cerritos Creek Channel Stream Restorations	City of Long Beach, Parks, Recreation and Marine Department	The Heather Creek and Los Cerritos Creek Channels are open box storm drain culverts that cross through Heartwell and Birdcage Parks, and Heather Creek runs adjacent to Wardlow Park in Long Beach. This project would remove the concrete bottom and one side-wall or walls, widening and terracing the channels to allow landscaping and a natural stream appearance where the channels cross through or border these parks.	X	-	-	X	-	X	-	-	NA	
46	Highway Median Greening	City of Long Beach, Parks, Recreation and Marine Department	Long Beach has hundreds of miles of highways with median islands. Approximately half are paved and the other half are landscaped. The Long Beach Water Department proposed a project to convert the existing landscaped medians to recycled water. This project is to convert the paved medians to landscaped medians to reduce urban runoff, increase habitat areas and beautify what are usually economically depressed neighborhoods. Recycled water would be used to irrigate the medians.	X	-	-	X	-	X	-	-	NA	
47	Jackson Creek Channel Stream Restoration	City of Long Beach, Parks, Recreation and Marine Department	The Jackson Creek Channel is an open box storm drain culvert that crosses through Scherer and Jackson Parks in Long Beach. This project would remove the concrete bottom and one sidewall, widening and terracing the channels to allow landscaping and a natural stream appearance where the channel crosses through Scherer and Jackson Parks.	X	-	-	X	-	X	-	-	NA	
48	Porous Park Parking Lots	City of Long Beach, Parks, Recreation and Marine Department	There are 4,700 paved parking spaces in parks in Long Beach covering 43 acres of land. There are also seven miles of park roads covering 25 acres of land. This project is to replace those 68 acres of impervious pavement with porous concrete paving.	X	-	-	X	-	X	-	-	NA	
49	Rainbow Lagoon Wetland Restoration	City of Long Beach, Parks, Recreation and Marine Department	Rainbow Lagoon is a three-acre salt-water wetland created approximately 40 years ago when the City filled the oceanfront adjacent to downtown Long Beach to create the location for the Long Beach Arena. It contains a tidal connection to the ocean although the water level is maintained at an elevation above sea level. Over time there has been an accumulation of sediments and nutrients in the lagoon that has led to algae blooms, oxygen depletion, and habitat destruction. The lagoon needs to be restored to a more natural configuration to continue its important biological function as one of the only remnants of the Los River Estuary marshes.	-	-	-	-	-	X	-	-	NA	
50	School Greening	City of Long Beach, Parks, Recreation and Marine Department	There are 30 elementary and middle schools in Long Beach with asphalt playgrounds averaging 3 acres in size. This project is to replace those 90 acres of impervious pavement with turf. The project would also revise the fencing around the playgrounds to allow them to be used by the public after school hours and on weekends without increasing the danger of vandalism.	X	-	-	X	-	X	-	-	NA	

Lower San Gabriel and Los Angeles River Subregion Projects													
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76	New Zone 2 Reservoir/Pump Station	City of Santa Fe Springs	NA	-	-	-	-	-	-	-	-	-	NA
77	Phase 1 Transmission Main Investigation, Repairs, and Design	City of Santa Fe Springs	NA	-	-	-	-	-	-	-	-	-	NA
78	Phase 2 Transmission Main Investigation, Repairs, and Design	City of Santa Fe Springs	NA	-	-	-	-	-	-	-	-	-	NA
79	Portable generators for wells	City of Santa Fe Springs	NA	X	-	-	-	-	-	-	-	-	NA
80	Reservoir No. 2 Chloramination Facilities	City of Santa Fe Springs	NA	-	-	-	-	-	-	-	-	-	NA
81	Undersized Main Replacement Program	City of Santa Fe Springs	Upgrade to 8 inch main (includes hydrant upgrade)	-	-	-	-	-	-	-	-	-	NA
82	Recoating of Reservoir No 2	City of Santa Fe Springs	Recoating interior of reservoir.	X	-	-	-	-	-	-	-	-	NA
83	Recoating of Reservoir No. 1	City of Santa Fe Springs	Recoating interior of reservoir.	X	-	-	-	-	-	-	-	-	NA
84	Hamilton Bowl Stormwater Quality Improvements	City of Signal Hill	The project will construct modifications and/or devices in the Hamilton Bowl Detention Basin that will address various LA River TMDLs.	X	4040	404	-	-	-	-	-	-	NA
85	Recycled Water System	City of Signal Hill	The project will construct a recycled water system in the City of Signal Hill that could be expanded into areas of the City of Long Beach not currently served with recycled water. A concept system alignment has been established consisting of 3,000 feet of pipeline ranging in size from 4" to 12" in diameter. Potential irrigation and industrial recycled water users, such as Caltrans, have been identified. These users provide a total estimated recycled water demand of 404 acre-feet per year.	X	0	404	-	-	-	-	-	-	NA
86	Cha'wot Open Space Preservation and Stormwater Runoff Reduction	City of Signal Hill	This project proposes the purchase of up to 10 of 32 acres of available open space in the northerly hilltop area of Signal Hill to: Preserve existing nature and wildlife; Provide walking, hiking, and recreational opportunities; Naturally reduce stormwater runoff by preserving undeveloped open space; Reduce the demand for potable water by reducing the amount of land available for development.	-	-	-	-	-	-	-	-	-	NA
87	Cesar Chavez Park	City of South Gate	Cesar Chavez Park is a greenbelt within the City of South Gate. It is a transmission corridor and it runs through the city of South Gate between the Alameda Corridor and South Gate Park along Southern Avenue.	-	-	-	X	-	X	-	-	-	Site is already a park but needs more improvement. Could be a segment of a regional bikeway connecting with the LARIO Trail
88	Confluence Park	City of South Gate	Park is located on the West Bank of the Rio Hondo approx 1 mile north of the confluence of the LA River and the Rio Hondo. Potential wetland habitat and water use efficiency benefits.	X	-	-	X	-	X	-	-	-	NA
89	Vernon Closed Distribution System	City of Vernon	Closed distribution system will improve system reliability.	-	-	-	-	-	-	-	-	-	Reliability/Redundancy
90	Vernon Production Well 21	City of Vernon	Drill New Production Well	X	0	1500	X	2	-	-	-	-	Reduce and/or eliminate Reliance on MWD Water
91	Well 14 Rehabilitation Project	City of vernon	Rehabilitate Well	X	0	1500	X	2	-	-	-	-	Reduce and/or eliminate Reliance on MWD Water
92	Compton Creek Watershed Plan	Coastal Conservancy	Implement Compton Creek Watershed Plan	-	-	-	-	-	-	-	-	-	NA
93	Gage Triangle	Community and Neighbors for Ninth District Unity	Located in a parkless Los Angeles Neighborhood Council District, this small triangular median serves as a neighborhood gathering space and potential environmental education showplace	-	-	-	X	-	X	-	-	-	NA
94	Carnation Park	Compton Creek Watershed Coordinator	Potential stormwater treatment park space at State Street and Los Flores Boulevard in Lynwood. Opportunities to treat significant stormwater flow from South Gate and Lynwood.	X	-	-	X	-	X	-	-	-	Potential for Retention, Tree Planting, Water Reuse, Native Plants, Public Education
95	Implementation of Coyote and Carbon Creeks Watershed Management Plan	County of Orange, RMC	Implementation of the water quality, sustainable and greening projects within the Watershed Plan.	-	-	-	-	-	-	-	-	-	NA
96	Confluence to Coast: Lower San Gabriel Regional BMP & Ecosystem Restoration	County of Orange, U.S. Army Corps of Engineers	Series of treatment wetlands and wet weather retention basins will treat storm and low flows from the Coyote Creek Watershed, providing clean water to the newly restored Los Cerritos Wetlands. This Confluence to Coast project will be a habitat and recreational corridor from the Bolsa Chica coast to the Puente Hills and San Gabriel Mountains.	-	-	-	-	-	-	-	-	-	NA
97	Cressy Street/Washington ES	CUSD	NA	-	-	-	X	-	X	-	-	-	NA
98	Compton Creek Camera Monitoring	Harbor/Watts Economic Development Corporation	Cameras will be installed along the compton creek to assist with sting operations to limit illegal dumping. The portion of the Creek passing closest to Watts will be the focus area.	-	-	-	X	-	X	-	-	-	Potential future regional bike transportation
99	Cash For Trash	Harbor/Watts Economic Development Corporation	Located in the Watts area, this project will help clean up illegal dump sites and litter by paying people to bring trash in to a central collection area. This project has economic development, homeless services, beautification, and environmental quality impacts.	-	-	-	X	-	X	-	-	-	NA
100	Cedar Street Pocket Park	Heal the Bay	Potential pocket park in a heavy residential dumping area adjacent to Compton Creek and the Compton Creek Bike Trail. There is local community support for this project.	-	-	-	X	-	X	-	-	-	Opportunity for local involvement
101	South Los Angeles Wetlands Park	LA City Council District 9	Located at Avalon and 53rd Street, Los Angeles, CA.	-	-	-	-	-	X	-	-	-	Education, Native Plants
102	South Compton Creek Wetlands	LA County Department of Public Works	East of Compton Creek and South of Santa Fe, this triangular area is already a stormwater detention basin. The area could be converted to a treatment wetland which detains/retains water, and offers a recreation benefit to people who are passing by on the adjacent South Compton Creek Bike Trail.	X	-	-	X	-	X	-	-	-	NA
103	Watts Cultural Crescent East	LA Neighborhood Land Trust	Park Improvement: Retention, Tree Planting, Water Reuse, Native Plants, Public Education	-	-	-	X	-	X	-	-	-	NA
104	San Gabriel River Regional Monitoring Program	LASGR Watershed Council	Integrated regional monitoring program for the San Gabriel River Watershed which improves coordination and cost effectiveness of independent monitoring efforts and provides a framework for periodic assessment of watershed condition. Proposed project is for full program implementation and special studies.	-	-	-	X	-	X	-	-	-	Note: costs are program costs per year
105	Conversion of non-Recirculation Car Wash Systems Project	LBWD	Complete the identification of and work successfully with car wash facilities in need of installing rinse-water recirculation equipment.	-	0	5	-	-	-	-	-	-	NA

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106	Conversion to Low-flow & non-Water Using Urinals Project	LBWD	Aggressively pursue the conversion to low-flow/ no water-using urinals from high-flow models in municipal and commercial buildings and other establishments.	-	0	20	-	-	-	-	-	NA
107	Hotel & Motel Laundry Notification Project	LBWD	Develop and implement program to work with every hotel and motel in Long Beach to implement programs that give patrons the option of not having their linen and towels washed daily.	-	0	150	-	-	-	-	-	NA
108	Marina Vista Coast-friendly Demonstration Garden	LBWD	Create one-acre California-Friendly Landscape demonstration garden at Marina Vista Park, overlooking the Pacific Ocean, demonstration approximately 9 different residential landscapes that promote native plants, wildlife habitat, run-off reduction, and water conservation. Purpose is to teach people why and how to change residential landscape from normal grass lawn to California-Friendly.	-	0	1500	-	-	-	-	-	1,500 af/yr reduction in polluted urban landscape runoff.
109	Reclamation Plant Chlorine Contact Tank Modifications	LBWD	Modify Chlorine Contact Tank No. 3 at the Long Beach Reclamation Plant to increase the supply of recycled water	-	0	5000	-	-	-	-	-	Reduce potable water demand
110	Sports Park Recycled Water Project	LBWD	Construct recycled water main in Spring Street to future Sports Park & nearby cemeteries	-	0	100	-	-	-	-	-	Reduce potable water demand/Agency cooperation
111	Beautiful Long Beach Landscape Grant Program	LBWD	Expand and increase marketing of program that provides funds for non-profit and public agencies to convert their publicly-accessible landscape to California-Friendly and to provide abundant educational and promotional efforts to accompany projects.	-	0	360	-	-	-	-	-	360 af/yr reduction in polluted urban landscape runoff.
112	Commercial & institutional ULFT & Urinal Conversion Program	LBWD	Develop regional program to aggressively market installation of ULFT and water-efficient urinals in CII settings.	-	0	79	-	-	-	-	-	NA
113	Commercial Kitchen Water-use Efficiency Project	LBWD	Identify and provide free water-use inspections to all commercial and other large industrial-type kitchen, providing free and/or rebated water-use efficiency devices; look into the feasibility of working in conjunction with local gas and electricity providers.	-	0	60	-	-	-	-	-	NA
114	Commercial Laundry Wash-water Recirculation Program	LBWD	Promote to and work with commercial laundries on the successful conversion to tunnel washers with recirculating system.	-	0	15	-	-	-	-	-	NA
115	Distribution System Leak Detection Project	LBWD	Undertake a demonstration project documenting the feasibility of installing and operating, and responding to, equipment designed to hear water leaking from distribution pipelines.	-	0	10	-	-	-	-	-	NA
116	eWaterUpdate	LBWD	Low-cost email-based system of notifying residential irrigators when and how much to irrigate based on weather conditions (CIMIS ETO)	-	0	1800	-	-	-	-	-	1,800 af/yr reduction in polluted urban landscape runoff.
117	Fire & Police Station Water-use Efficiency Program	LBWD	Use lessons learned at water-use efficiency effort at Long Beach Fire Station 4, to roll water-use efficiency out to the other municipal fire and police stations.	-	0	5	-	-	-	-	-	2.625 af/yr reduction in polluted urban landscape runoff.
118	Industrial Process-water Efficiency Program	LBWD	Conduct water audits of industrial customers to seek higher water-use efficiency in their processes.	-	0	75	-	-	-	-	-	NA
119	Irrigation System Upgrades for School District	LBWD	Replace the irrigation systems at targeted schools within the Long Beach Unified School District, some of which were installed many decades ago and are in disrepair.	-	0	12	-	-	-	-	-	12 af/yr reduction in polluted urban landscape runoff.
120	Large Landscape Irrigation Audit Program	LBWD	Expand program auditing large landscapes to include HOA and other irrigators.	-	0	125	-	-	-	-	-	125 af/yr reduction in polluted urban landscape runoff.
121	Large Landscape Irrigation Water Budget Program	LBWD	Enhance process of developing water budgets for irrigation customers, and report to them on a regular basis on their progress towards keeping actual water use within the budget.	-	0	313	-	-	-	-	-	313 af/yr reduction in polluted urban landscape runoff.
122	LB City College Horticulture Program	LBWD	Support the Long Beach City College Horticulture certification program to give greater emphasis on California-Friendly landscape when educating the next generation of landscape designers and contractors.	-	0	1500	-	-	-	-	-	1,500 af/yr reduction in polluted urban landscape runoff.
123	LBWD Demonstration Garden	LBWD	Create 1/4-acre California-Friendly Landscape demonstration garden at headquarters building with a very strong emphasis on web-based educational elements. Expect to influence landscape decisions by residential property owners for years to come. Purpose is to teach people why and how to change residential landscape from normal grass lawn to California-Friendly.	-	0	300	-	-	-	-	-	300 af/yr reduction in polluted urban landscape runoff.
124	Residential HECW Program	LBWD	Fund region-wide advertising of HECW rebate programs and provide rebates of \$25 per unit to be added to the MWD incentive, plus administrative costs of issuing rebates (approximately \$17- to \$20-unit).	-	0	224	-	-	-	-	-	NA
125	Residential Landscape Design & Irrigation Classes	LBWD	Expand and market highly successful two-part program of educating residential customers about the essentials of landscape design, California-Friendly plants, irrigation systems, and landscape maintenance.	-	0	45	-	-	-	-	-	45 af/yr reduction in polluted urban landscape runoff.
126	Residential ULFT Program	LBWD	Fund region-wide advertising of ULFT rebate programs and provide rebates of \$25 per unit to be added to the MWD incentive, plus administrative costs of issuing rebates (approximately \$17- to \$20-unit).	-	0	224	-	-	-	-	-	NA
127	Residential Water Audit Program	LBWD	Provide free water audits of residential customers, specifically targeting those using the most water.	-	0	100	-	-	-	-	-	50 af/yr reduction in polluted urban landscape runoff.
128	Residential Water-use Efficiency Devices Program (excluding ULFT & HECW)	LBWD	Create region-wide program for distribution of residential water-use efficiency devices such as shower heads and hose nozzles, and aggressively promote the program.	-	0	1000	-	-	-	-	-	NA
129	Water Ambassador Community Education Program	LBWD	Expand, enhance, and develop materials for replicating highly successful program that recruits senior citizen to volunteer their time to educate the public in general, and school children in particular, about water issues including water conservation.	-	0	30	-	-	-	-	-	NA
130	Water Softener Education Program	LBWD	Develop and aggressively market effective program for educating the public about the impact of water softeners on water supplies and, if the consumer chooses to use a water softener, which are the least damaging.	-	0	100	-	-	-	-	-	100 af/yr reduction in highly saline waste water.
131	Weather-based Irrigation Controller Program 5	LBWD	Add \$100 per unit to MWD rebate (but only when DWR's contributions are not available) for WBIC rebate and exchange program.	-	0	850	-	-	-	-	-	850 af/yr reduction in polluted urban landscape runoff.
132	105 FWY Project	LBWD	Treat 105 FWY dewatering well discharge for potable consumption.	-	0	2000	X	-	-	-	-	Utilize existing groundwater which is being discharged into LA River
133	Street Median Conversions to Recycled Water	LBWD	Convert street median irrigation to recycled water	-	0	20	-	-	-	-	-	Reduce potable water demand
134	Cherry Avenue Recycled Water Pipeline	LBWD	Construct recycled water main in Cherry Avenue to serve north Long Beach area	-	0	500	-	-	-	-	-	Reduce potable water demand/Agency cooperation
135	Seawater Desalination	LBWD	Construct a 10mgd seawater desalination facility	-	0	11000	-	-	-	-	-	Reduce potable water demand
136	Trash Net Installed Upstream of Earthen Bottom Portion of Creek	Los Angeles C	Trash Capture: Trash Net or Screen, Public Education	-	-	-	X	-	-	-	-	NA
137	San Gabriel River Trash Net	Los Angeles County Flood Control District	Install a trash net along the San Gabriel River at the Westminster bridge crossing.	-	-	-	X	-	-	-	-	NA
138	New Injection Wells for the Alamitos Seawater Barrier	Los Angeles County Flood Control District	Installation of new injection wells to enhance the effectiveness of the Alamitos Seawater Barrier.	X	100	100	-	-	-	-	-	NA

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139	Barrier Water Supply Facilities Improvements	Los Angeles County Flood Control District	The project prevents corrosion of the pipelines that supply water for injection into the region's groundwater aquifers. Improvements include the bonding of joints, installation of sacrificial anodes, and installation of test stations.	-	-	-	-	-	-	-	-	NA
140	Dominguez Gap Spreading Grounds – West Basin Percolation Enhancement	Los Angeles County Flood Control District	Install vertical trenches/drains through poorly draining strata underlying the bottom of the facility's West Basin to increase the basin's percolation capacity. Project concept needs to be performed to determine feasibility and water conservation benefit.	X	1000	0	-	-	-	-	-	NA
141	Lower Los Angeles River Area Linear Water Storage Feasibility Study	Los Angeles County Flood Control District	Explore the feasibility and water conservation benefit of installing rubber dams in the Los Angeles River, Compton Creek and Rio Hondo channels upstream of the Dominguez Gap Spreading Grounds to create temporary linear water storage for later groundwater recharge. Cost noted on form is for a feasibility study only. Water conservation benefit and implementation costs would be dependent upon study's findings.	X	1000	0	-	-	-	-	-	NA
142	Bellflower Project 1901	Los Angeles County Flood Control District	The project provides water quality enhancements for low flows outletting from storm drain Project 1901 in the City of Bellflower.	-	-	-	X	-	-	-	-	NA
143	La Mirada Creek Park Project	Los Angeles County Flood Control District	The initial study will analyze project alternatives to develop flood control, recreation, and habitat improvements for the regions located within La Mirada Park Creek.	-	-	-	-	-	X	0	10	Flood Control, Education
144	Paseo del Rio at San Gabriel Coastal Spreading Grounds	Los Angeles County Flood Control District	This multi-objective 128-acre LACDPW project will provide a bike trail, new native and drought-tolerant landscaping, shade structures and other park-like amenities to beautify open space surrounding the existing spreading grounds. The project entails limited public access, with passive recreational and educational opportunities. The occasional presence of surface water creates the appearance of a lake to be enjoyed by nearby residents and other visitors.	X	-	-	-	-	X	0	3	Education
145	San Gabriel Coastal Basin Spreading Grounds – Sediment Removal from Basins	Los Angeles County Flood Control District	Remove approximately 150,000 cubic yards of accumulated silt from the facility's three spreading basins to restore the basins' percolation and storage capacity. The percolation capacity of the facility used to be approximately 75 cubic feet per second (cfs); it is now about 20 cfs.	X	1000	0	-	-	-	-	-	NA
146	Compton Creek Pump Station Wetlands	Los Angeles County Flood Control District	Development of a treatment wetlands within the forebay of an existing pump station. Wetlands will treat flows from the Compton Creek watershed prior to being pumped to the Los Angeles River.	-	-	-	-	-	-	-	-	NA
147	Compton Creek Trash Net	Los Angeles County Flood Control District	Installation of a trash net along Compton Creek that would capture trash prior to its entering the earthen-bottom portion of the Creek.	-	-	-	-	-	-	-	-	NA
148	Dominguez Gap Wetlands	Los Angeles County Flood Control District	Development of a treatment wetlands within the East Basin of the Dominguez Gap Spreading Grounds. Treated flows will be routed to the West Basin for groundwater recharge.	-	-	-	-	-	-	-	-	NA
149	Flormount Regional Flood Relief Multiuse	Los Angeles County Flood Control District	Address regional flooding hazards through multiobjective watershed management solutions for the DDI 23 regional drainage system in the Los Angeles River watershed.	-	-	-	-	-	-	-	-	NA
150	Holistic Watershed Plan for East Los Angeles	Los Angeles County Flood Control District	Work with stakeholders to develop a watershed plan for the East Los Angeles area	-	-	-	-	-	-	-	-	NA
151	Laguna Retention Basin Enhancement	Los Angeles County Flood Control District	Development of an underutilized area that can be transformed into a space for not only flood protection but also active and passive recreation, connecting open spaces in transit access points through pedestrian and bike trails, native landscaping and	-	-	-	-	-	-	-	-	NA
152	Lynwood Regional Flood Relief Multiuse	Los Angeles County Flood Control District	Address regional flooding hazards through multiobjective watershed management solutions for the Lynwood regional drainage system in the Los Angeles River watershed.	-	-	-	-	-	-	-	-	NA
153	Mid-Cities Watershed Plan	Los Angeles County Flood Control District	Develop a watershed plan for mid-cities (including Bell, unincorporated Walnut Park and Florence, Cudahy, Huntington Park, Maywood, Vernon, and South Gate) draining directly to the Los Angeles River.	-	-	-	-	-	-	-	-	NA
154	Paramount River Restoration	Los Angeles County Flood Control District	Develop a 3.5 acre site above Rosecrans Avenue on the east side of the Los Angeles River as a detention basin w/ native plantings.	-	-	-	-	-	-	-	-	NA
155	South Gate Riparian Restoration	Los Angeles County Flood Control District	Restore an area on the west side of the Los Angeles River located south of Imperial Highway.	-	-	-	-	-	-	-	-	NA
156	Trash Removal Subregional Solution - East Compton Creek	Los Angeles County Flood Control District	Develop a subregional trash capture BMP for the East Compton Creek subwatershed in compliance with the LAR Trash TMDL	-	-	-	-	-	-	-	-	NA
157	Vernon Bikeway Extension	Los Angeles County Flood Control District	Develop a bike trail through the City of Vernon that extends from Atlantic Blvd to Downey Street along the Los Angeles River that would extend the existing LARIO trail	-	-	-	-	-	-	-	-	NA
158	Vernon Soccer Fields Multiuse	Los Angeles County Flood Control District	Develop multipurpose soccer fields, incorporating a detention basin (approx 20 acre-ft) on the east side of the Los Angeles River below Atlantic Boulevard.	-	-	-	-	-	-	-	-	NA
159	Wrigley Greenbelt Multiuse	Los Angeles County Flood Control District	Development of approximately 8 acres of land along the Los Angeles River between Willow Street and Wardlow Road for multiuse opportunities.	-	-	-	-	-	-	-	-	NA
160	Armstrong Area Revitalization	Los Angeles County Flood Control District	Working with the City of South Gate, acquire and develop 13 acres into a multiuse park with features to detain and treat stormwater.	-	-	-	-	-	-	-	-	NA
161	DDI 23 Regional Flood Relief Multiuse	Los Angeles County Flood Control District	Address regional flooding hazards through multiobjective watershed management solutions for the DDI 23 regional drainage system in the Los Angeles River watershed.	-	-	-	-	-	-	-	-	NA
162	Rio Hondo and San Gabriel Coastal Basin Spreading Grounds – Pipeline Connec	Los Angeles County Flood Control District	Construct a pipeline between Rio Hondo and San Gabriel Coastal Spreading Grounds to allow greater operational flexibility and greater intake of water during and after storms. Construct the intake structure at the Rio Hondo facility and the outlet structure at the San Gabriel facility.	X	1000	0	-	-	-	-	-	NA
163	Rio Hondo Coastal Basin Spreading Grounds – Sediment Removal from Basins	Los Angeles County Flood Control District	Remove approximately 700,000 cubic yards of accumulated sediment from the facility's spreading basins to restore the basins' percolation and storage capacity. The percolation capacity of the facility used to be approximately 400 cubic feet per second (cfs); it is now about 200 cfs.	X	1000	0	-	-	-	-	-	NA

South Santa Monica Bay Subregion Projects												
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1	Ballona Wetlands Expansion	?	Constructed wetlands/potential State park	-	-	-	-	-	X	-	-	NA
2	Del Rey Lagoon park Expansion	?	Del Rey Lagoon land acquisition and design process	-	-	-	-	-	X	-	-	NA
3	Del Rey neighborhood Council area Bike Racks on city streets	?	Place bike racks in business areas for shoppers and those going to eating establishments.	-	-	-	-	-	X	-	-	NA
4	UCLA Bicycle Master Plan	?	Ease bicycle congestion in and around UCLA campus	-	-	-	-	-	X	-	-	NA
5	Westwood Traffic Mitigation Wilshire Blvd.	?	Westside Bike working with City Council on traffic problem for bicycle riders.	-	-	-	-	-	X	-	-	NA
6	Westchester Bluffs Restoration	?	Remove non-natives and restore sage scrub.	-	-	-	-	-	X	-	-	NA
7	Ballona Creek Inflatable Dam	?	Install inflatable dam at a location in Ballona Creek to impound water for treatment and provide aesthetic benefits.	-	-	-	-	-	X	-	-	NA
8	Stone Canyon Creek Restoration	?	Removal of exotics/non-native vegetation and planting of native plants and trees	-	-	-	-	-	X	-	-	NA
9	Baldwin Hills Park Master Plan	Baldwin Hills Conservancy	Goal: develop program of resource stewardship, restore natural areas (including removal of non-native plants), improve recreation, culture, & educational experience.	-	-	-	-	-	X	-	-	NA
10	Exposition Light Rail	Caltrans	Light rail on abandoned rail. Includes bicycle trail. Ten segments are in project.	-	-	-	-	-	X	-	-	NA
11	Playa Vista Bicycle Trail	Caltrans	Bicycle trail	-	-	-	-	-	X	-	-	NA
12	Traffic Mitigation	Caltrans	Add two traffic lanes to existing Hwy. Eliminate bike lanes & sidewalks. Create more congestion-more auto pollution.	-	-	-	-	-	X	-	-	NA
13	Automated Meter Reading	City of Beverly Hills	The City of Beverly Hills is going to replace all its meters with automated meters that collect data frequently enough to assist in detecting leaks on private property.	X	233	0	-	-	-	-	-	NA
14	Waterwise/Firewise Demonstration Garden	City of Beverly Hills	Three City departments are working together to design and construct a water use efficient garden that meets with hillside fire regulations.	X	-	-	-	-	-	-	-	NA
15	Storm Catch Basin Insert Installation	City of Beverly Hills	Inserts are installed in the catch basins located in the business triangle which has a history of high trash generation.	-	-	-	X	-	-	-	-	NA
16	High School Turf project	City of Beverly Hills; AYSO; BHUSD	Replace multi-use sports field with artificial turf	-	-	-	-	-	-	-	-	NA
17	Groundwater Recharge Sump for Carson City Hall	City of Carson	Construction and flow monitoring of two groundwater recharge sumps to receive roof drain runoff from City Hall Buildings. Currently the roof drains are routed directly to the storm drain system.	-	-	-	X	-	-	-	-	0.61 acres of flood control
18	Monitoring Program for JWPCP Marshland Enhancement Project	City of Carson and Sanitation Districts of Los Angeles County	Develop and implement project assessment and evaluation plan and monitoring plan in accordance with SWRCB guidance and AWQGP guidelines to assess water quality benefits and pollutant load reductions achieved by 17 acre wetland restoration and enhancement project that will function as an offline wetland treatment system for 2.16 million gallons per day of water from the Wilmington Drain. (The marsh construction program is fully funded but no funds are currently provided for monitoring and assessment.)	-	-	-	X	2	X	0	17	Education and habitat /wildlife viewing
19	Carson Freeway Wetland	City of Carson, Carson Redevelopment Agency	Acquire Brownfield property between the Dominguez Channel and the San Diego Freeway in the City of Carson and construct an engineered wetland to provide treatment of freeway storm water runoff and local dry weather flows from golf courses, local storm drains and/or the Dominguez Channel. Project includes linear jogging/bike path to provided critical recreational open space and enhance local redevelopment activity.	-	-	-	X	3	X	0	29	NA
20	Gardena Willows Wetlands - Weeds	City of Gardena	Control of basic and exotic weeds and resorption of the wetlands preserve. Control of non-native plants.	-	-	-	X	-	-	-	-	NA
21	Gardena Willows Wetlands - Education	City of Gardena	Interpretation and education of Gardena Willows Wetlands. Contract for development and installation of two interpretive panels and related brochures.	-	-	-	-	-	-	-	-	x
22	Gardena Willows Wetlands - Erosion	City of Gardena	Correct erosion problems and improve maintenance of existing paths. Construct the remaining paths within the preserve making all paths handicap accessible.	-	-	-	-	-	-	-	-	Conservation Education
23	Gardena Willows Wetlands - Education 2	City of Gardena	Interpretation and education of Gardena Willows Wetlands. Contract for development and installation of two interpretive panels and related brochures.	-	-	-	-	-	-	-	-	NA
24	Hermosa Strand Low Flow Infiltration Trench	City of Hermosa Beach	Dry and wet weather low flow runoff from eleven storm drains along a 1.5 mile stretch of beach including the downtown commercial corridor will be diverted into an engineered infiltration trench. The project will take advantage of the unsaturated coastal sandy soil to effectively distribute and infiltrate these low flows. The storm drains discharging along this stretch of beach will be equipped with a structural diversion system to allow pump low flows into the engineered trench while allowing higher flows to bypass the trench and flow directly to the existing ocean outfall. The storm drain flows discharging from the downtown commercial area will receive pretreatment for oil and grease removal before entering the engineered trench.	-	-	-	X	2	X	-	-	The project will reduce REC-1 bacteria exceedances caused by dry weather and first flush/low flow wet weather storm drain discharges at shoreline beaches along a 1.5 mile stretch of beach from Herondo Street to 26th Street in Hermosa Beach. The project will tie into existing storm drain system to divert, treat and infiltrate low flows currently impacting popular recreational beaches and a fishing pier.
25	Dominguez Watershed U.	City of Inglewood	Project would provide a training program designed to help people from local government, non-profit organizations, the business community, and citizen groups to work together and play effective roles in watershed management and to become stream stewards.	-	-	-	-	-	-	-	-	Outreach and collaboration
26	Sanford M. Anderson Water Treatment Plant - Study TTHM Reduction Alternativ	City of Inglewood	Pilot study for treatment plant effluent to meet Primary Drinking Water Regulation. Remove high total organic carbon (TOC) concentrations in groundwater by granular activated carbon (GAC) adsorption.	-	-	-	X	9	-	-	-	NA
27	Sanford M. Anderson Water Treatment Plant Improvements - Capacity and Water	City of Inglewood	Increase treatment plant capacity to 6,500 gpm (9.36 mgd) to supply 50% of maximum daily demand from local sources.	-	-	-	X	9	-	-	-	NA
28	Ballona Creek Stormwater Runoff Disinfection Project	City of Inglewood	Project will reduce the bacteria levels from stormwater runoff using ultra violet infiltration before the runoff empties in the Ballona Creek.	-	-	-	X	-	-	-	-	Public Information would be available
29	Rogers Park Watershed Runoff Treatment Reuse and Infiltration Project	City of Inglewood	Project is a subterranean dry and wet weather treatment, storage and infiltration system. It will incorporate cisterns, dry wells and infiltration pits.	-	-	-	X	-	-	-	-	Public information available, stormwater treatment, maintain and enhance current open space
30	Ballona Creek Stormwater Trash Capture System	City of LA	Install 3 full trash capture systems.	-	-	-	-	-	X	-	-	NA
31	Ballona Lagoon Improvements	City of LA	Removal of non-natives, dredge channel to improve tidal circulation and install fencing to reduce public access.	-	-	-	-	-	X	-	-	NA
32	(Venice) Grand Canal Restoration	City of LA	Funded by resident assessment program. Make Grand Canal similar to Venice network, possibly widening the lagoon, create a marine preserve with sloping banks, and decomposed granite paths.	-	-	-	-	-	X	-	-	NA
33	Sacatela Watershed Park	City of LA CD13	BMPs and native habitat plantings at X acres park. Significant project costs incurred by relocation of street light yard.	-	-	-	X	-	-	-	-	NA

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34	Del Rey Lagoon Improvements	City of LA Recreation & Parks	Improve tidal flushing and plant native vegetation	-	-	-	-	-	X	-	-	NA	
35	Fern Dell Enhancements	City of LA Recreation & Parks	Inclusion of regionally-adapted plants	-	-	-	-	-	X	-	-	NA	
36	Bronson Canyon Enhancement	City of LA Recreation & Parks	Removal of non-natives and planting of California walnut and live oak.	-	-	-	-	-	X	-	-	NA	
37	Lomita Integrated Storm to Vadose to Water Supply - Madonna Subdivision	City of Lomita with WRD, WBMWD	Reduce runoff and debris within watersheds, reduce spillover onto Malibu Road, construct bioswales on northern side of Malibu Road to increase depth of flow and increase inlet capacity	-	-	-	-	-	-	-	-	NA	
38	Lomita Integrated Storm to Vadose to Water Supply - Moon Ave School	City of Lomita with WRD, WBMWD	Contain and reduce spillover from Tuna Canyon PCH, reduce runoff and debris from Tuna Canyon watershed, improve culvert crossings at PCH, improve low point drainage facilities	-	-	-	-	-	-	-	-	NA	
39	Lomita Integrated Storm to Vadose to Water Supply - Walnut Street	City of Lomita with WRD, WBMWD	Contain and reduce spillover from Las Flores Canyon at PCH, reduce runoff and debris from Las Flores Canyon watershed, improve drainage facilities by constructing two new storm drain systems	-	-	-	-	-	-	-	-	NA	
40	Lomita Integrated Storm to Vadose to Water Supply - Lomita Park Subdivision	City of Lomita with WRD, WBMWD	Contain and reduce spillover from Carbon Canyon north of NCH, implementing BMPs before directing runoff to Carbon Canyon Creek to prevent PCH flooding.	-	-	-	-	-	-	-	-	NA	
41	Lomita Integrated Storm to Vadose to Water Supply - Robin Lane	City of Lomita with WRD, WBMWD, Egmond Associates Ltd.	Improve stormwater management and flood prevention by redirecting storm flows from PCH, collecting and implementing BMPs before discharging runoff.	-	-	-	-	-	-	-	-	NA	
42	Postal Office Green Roof Structural BMPs	City of Los Angeles	Green Roof	-	-	-	-	-	-	-	-	NA	
43	Palisades Park Structural BMPs	City of Los Angeles	Bioswales, Cisterns and Rain Barrel	-	-	-	-	-	-	-	-	NA	
44	Vista de Mar Park/Imperial and Vista del Mar Lot Structural BMPs	City of Los Angeles	Bioretention, Infiltration Trench or Basin, Dry Well, Pervious Pavement	-	-	-	-	-	-	-	-	NA	
45	Westchester Golf and Recreation Center Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse, Pervious Parking	-	-	-	-	-	-	-	-	NA	
46	Loyola Village Branch Library Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse	-	-	-	-	-	-	-	-	NA	
47	Del Rey Lagoon Park Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse	-	-	-	-	-	-	-	-	NA	
48	Venice Beach Boardwalk Structural BMPs	City of Los Angeles	Perforated Culvert, Drywells, Bioswales, Bioretention, Pervious Paving	-	-	-	-	-	-	-	-	NA	
49	Westminster Park (dog park) Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse, Infiltration Trench	-	-	-	-	-	-	-	-	NA	
50	Oakwood Recreation Park Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse, Pervious Parking	-	-	-	-	-	-	-	-	NA	
51	Penmar Recreational Park Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse, Pervious Parking	-	-	-	-	-	-	-	-	NA	
52	Temescal Canyon Park Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse	-	-	-	-	-	-	-	-	NA	
53	Rustic Canyon Recreation Center Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse	-	-	-	-	-	-	-	-	NA	
54	Will Rogers State Historical Park Structural BMPs	City of Los Angeles	Subsurface Constructed Wetland	-	-	-	-	-	-	-	-	NA	
55	Barrington Recreational Park Structural BMPs	City of Los Angeles	Cistern/Rain barrel and Local Storage and Reuse	-	-	-	-	-	-	-	-	NA	
56	Santa Ynez Canyon Park Structural BMPs	City of Los Angeles	Subsurface Constructed Wetland	-	-	-	-	-	-	-	-	NA	
57	Hoag Canyon Acquisition	City of Los Angeles	Acquisition of last undeveloped canyon in Ballona Creek Watershed. Restoration of modified reach of creek.	-	-	-	X	-	X	725	725	NA	
58	South Bay Flood Control	City of Los Angeles, Bureau of Sanitation	This project intends to reduce future flood risk by completed the plan, design, and implementation of projects in the South Bay Sub-Region. These projects are to relieve local flooding, improve drainage, and protect public health and property	-	-	-	-	-	-	-	-	eliminate approximately 14 problematic flooding sites	
59	Lower Franklin Canyon Park	City of Los Angeles, Council District 5	Lower Franklin Canyon provides precious, underutilized open space which is a commodity in this highly urbanized area. The proposed project primarily addresses water quality, habitat and recreation needs, although a flood management strategy is also addressed.	X	1	100	X	-	X	0	156	NA	
60	Santa Ynez Canyon Restoration	City of Los Angeles; Dept. of Recreation and Parks	This project proposes the revitalization of the canyon and associated Santa Ynez Creek by establishing native habitats, providing erosion and flood control measures, and improving water quality through the removal of large debris and the natural filtration of storm water and associated pollutants. Develop trails and improve passive recreational opportunities in the canyon areas. Install constructed wetlands to capture and treat runoff for the park and surrounding areas	-	-	-	X	-	X	-	-	NA	
61	Mandeville Canyon Restoration	City of Los Angeles; Dept. of Recreation and Parks	This project proposes the revitalization of the canyon and associated Mandeville Canyon Creek by establishing native habitats, providing erosion and flood control measures, and improving water quality through the removal of large debris and the natural filtration of storm water and associated pollutants. Develop runoff culverts, channels, and energy dissipation zones to mitigate downstream flooding. Increase public access to the Canyon by improving the existing trails and access points.	-	-	-	X	-	X	-	-	NA	

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62	Macarthur Park Lake Rehabilitation Project	City of Los Angeles, Dept. of Recreation and Parks	The project proposed to restore the retention basin so that its natural physical, biological, and chemical processes can improve water quality by maximizing pollutant removal. Project specifics include draining the lake, improving aeration and circulation system, installing trash capture inserts in storm drains, reconstructing walking paths using permeable surfaces, installing "smart" irrigation system, providing educational signage and kiosks identifying the water quality improvements benefits, and implementing various other Best Management Practices (BMP) throughout the park using a treatment train approach. BMPs will be based on the latest stormwater technology and may include bioswales and permeable surfaces	-	-	-	X	-	X	-	-	NA	
63	Manhattan Beach Greenbelt Percolation Line	City of Manhattan Beach	This project will involve the construction of an underground percolation line for dry weather flows.	X	-	-	X	0.013	-	-	-	NA	
64	Greenbelt Low-flow Infiltration Project	City of Manhattan Beach	This project will intercept dry weather flows, from an existing storm drain, and allow them to percolate into the ground. The pollutant load will be captured and prevented from discharging into the Santa Monica Bay. During a storm, the "first flush" will be stored for seepage into the ground later. The low flows will be screened by a CDS type unit and will then be directed to a series of 24" diameter underground plastic pipes (approx. 1800 ft) with perforated inverts for percolation into the ground. This project will improve water quality in the Santa Monica Bay as well as create additional capacity in the hydraulically deficient storm drain system downstream.	-	-	-	X	-	-	-	-	Flood Management for approximately 0.10 acre	
65	Urban and Rain Water Diversion and Re-Use at City Parks	City of Redondo Beach	Construct diversion, treatment, storage and distribution facilities to re-use dry weather and wet weather runoff from local subwatersheds in 12 parks located throughout the City of Redondo Beach. All dry weather and up to a 0.3 inch/24hr storm events would be diverted, treated, stored and re-used to irrigate park landscaping.	X	-	-	-	-	-	-	-	NA	
66	King Harbor Red Tide Mitigation	City of Redondo Beach	Install mechanical aeration and circulation devices throughout the harbor to increase the oxygen levels and provide increase circulation. These facilities can be activated prior to a red tide or other event that impedes proper circulation and oxygen levels in the harbor that would adversely impact the marine environment.	-	-	-	X	-	-	-	-	Marine wild life and habitat	
67	Peninsula Village Green Building Review	City of Rolling Hills Estates	Provide a 50% match to developers for the cost associated with contracting for an external environmental review of green building aspects of development/redevelopment projects proposed within the Peninsula Village overlay zone. This would include review for incorporation of green building features that also achieve IRWMP objectives including: water conservation, water recycling, flood management, stormwater capture and management/reuse, water quality protection and improvement.	X	1	100	X	-	-	-	-	87 acres subject to green building review	
68	Peninsula Village Regional Stormwater Mitigation Program	City of Rolling Hills Estates	Incorporate a system of structural stormwater BMPs into the streetscape master plan for Peninsula Village. This will be funded through a combination of developer fees and grant funding by creating a Regional Stormwater Mitigation Program which would provide stormwater SUSMP compliance for new development/redevelopment and also stormwater and urban runoff mitigation for existing developments within the Peninsula Village overlay zone.	X	1	100	X	0.9	-	-	-	significantly increase permeability of 45 acres	
69	Chandler Sand & Gravel Redevelopment Infiltration Basin	City of Rolling Hills Estates	Incorporation of a stormwater infiltration/groundwater recharge/flood control basin into redevelopment of the former sand & gravel quarry, currently an inert landfill. Redevelopment plans for the property involve the construction of new homes and expansion of a private golf course. Basin would receive runoff from 500 acres including 250 acres outside the redevelopment project conveyed via five natural drainage courses. Property includes groundwater rights and the basin could either provide surface water source for golf course irrigation or serve as recharge for groundwater used for irrigation.	X	500	1000	X	0.5	-	-	-	500 acres flood control	
70	Creation of Infiltration Zones at Existing Storm Drain Junction Boxes	City of Santa Monica	Retrofit an existing storm drain junction box/ location (5-10 boxes in total as part of this project). Auger through the storm drain manhole to create an infiltration zone below the storm drain line. This would allow dry weather flows and some wet weather to dump into this sump for infiltration.	-	-	-	-	-	-	-	-	NA	
71	Los Angeles County and Santa Monica Fire Stations Structural BMPs	City of Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration BMPs at 4 Santa Monica Fire Stations #1(Headquarters), #2, #3, #4, #5 and 5 LA County Fire Stations (Venice Blvd, Butler Ave, Hollister Ave, Sunset Blvd, Carey/Embury, Veteran Ave., Lioness)	-	-	-	-	-	-	-	-	NA	
72	Beach Park Structural BMPs	City of Santa Monica	Local Storage or Infiltration	-	-	-	-	-	-	-	-	NA	
73	Big Blue Bus Infiltration Pit	City of Santa Monica	Infiltration Pit	-	-	-	-	-	-	-	-	NA	
74	Civic Center Structural BMPs	City of Santa Monica	Separation Screening, Catch-Basin Inserts, Infiltration, Storage Reuse or Permeable Pavers	-	-	-	-	-	-	-	-	NA	
75	Memorial Park Expansion	City of Santa Monica	Bioretention, Infiltration Trench or Basin, Dry Well, Pervious Pavement	-	-	-	-	-	-	-	-	NA	
76	Library and Skill Center Structural BMPs	City of Santa Monica	Cistern/rain barrels at Santa Monica and LA County Libraries (Main Library, Brentwood Library, Montana Library, Mahood Senior Center/Library, Venice Skill Center)	-	-	-	-	-	-	-	-	NA	
77	Santa Monica Courthouse Structural BMPs	City of Santa Monica	Cistern, Rain Barrel	-	-	-	-	-	-	-	-	NA	
78	The Lakes at El Segundo Golf Course Structural BMPs	City of Santa Monica	Cistern/Rain barrel and Local Storage and Reuse	-	-	-	-	-	-	-	-	NA	
79	Parks Runoff Retrofit Reuse-Infiltration Projects b	City of Santa Monica	Retrofit an existing park and add to a new park runoff treatment, reuse and infiltration BMPs to deal with onsite and offsite runoff.	X	-	-	X	-	X	-	-	Removal of all or most runoff pollutants; if reuse of stormwater, need to check with State DHS, would offset a X amt. of potable water; need additional calcs.	
80	16th Street Watershed Runoff Reuse Demonstration Project	City of Santa Monica	3 stage treatment, storage, infiltration and/or reuse project for all dry weather runoff, and up to 80% wet weather.	X	-	-	X	52	-	-	-	Removal of all or most runoff pollutants; if reuse of stormwater, need to check with State DHS, would offset a X amt. of potable water; need additional calcs.	
81	Memorial Park Runoff Treatment, Reuse & Infiltration Project	City of Santa Monica	Improve water quality through provision of BMPs to control site runoff across bluff and the beach before reaching Santa Monica Bay	-	-	-	-	-	-	-	-	NA	
82	Parks Runoff Retrofit Reuse-Infiltration Projects	City of Santa Monica	Retrofit an existing park and add to a new park runoff treatment, reuse and infiltration BMPs to deal with onsite and offsite runoff.	X	-	-	X	-	X	-	-	Removal of all or most runoff pollutants; if reuse of stormwater, need to check with State DHS, would offset a X amt. of potable water; need additional calcs.	
83	Storm Drain Runoff Retrofit & Infiltration Stations	City of Santa Monica	Retrofit existing storm drain nexus points with deep infiltration zones for dry and wet weather capture and infiltration.	-	-	-	X	-	-	-	-	For infiltrated runoff, removal of ALL runoff pollutants.	
84	Freeway Runoff Infiltration Demonstration Project	City of Santa Monica	Divert runoff from a section of the Santa Monica Freeway, treat and infiltrate along the side of the freeway.	-	-	-	X	-	-	-	-	For infiltrated runoff, removal of ALL runoff pollutants.	
85	Well No 7&8	City of Torrance	The project objective is for the design and installation of structural parking lot BMPs and non-structural infiltration devices to provide ecological methods for water pollution control and mitigation of urban storm water runoff from PCH and adjacent beach	-	-	-	-	-	-	-	-	NA	
86	Conversion of 237th Street/Walter Street and Walnut Ave. Sumps Tributary to	City of Torrance	This project would convert the 237th St./Walter St. and Walnut Ave. Sumps into a retention/infiltration basin BMPs for pending TMDL compliance and provide open spaces for wildlife habitat. Flows that previously went to these sumps are now tributary to the Harbor Lakes. This project would maximize the drainage area that could be tributary to these retention basins and also restore areas for wildlife use.	-	-	-	X	-	X	0	2	NA	

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87	Conversion of 237th Street Sump Tributary to Harbor Lakes into Infiltration	City of Torrance	This project would convert the 237th St. Sump (31 acres) into a retention/infiltration basin BMPs for pending TMDL compliance and provide open spaces for wildlife habitat. Flows tributary to this sump are tributary to the Harbor Lakes. This project would maximize the infiltration from this drainage area and also restore areas for wildlife use.	-	-	-	X	9	X	0	1	NA	
88	Conversion of Pioneer Storm Drain Sump Tributary to Dominguez Channel into	City of Torrance	This project would convert the Pioneer Sump into an infiltration or bio-filtration BMP for pending TMDL compliance and provide open spaces for wildlife habitat. This sump is tributary to the Dominguez Channel. This project would also restore areas for wildlife use.	-	-	-	X	-	X	0	3	NA	
89	Yukon Well Development	City of Torrance	The project will construct three wells to reduce dependence on imported MWD water. The project will include land acquisition, well, treatment, and distribution construction.	X	1000	0	-	-	-	-	-	NA	
90	Reduction of Harmful Nutrients in the water at the Madrona Marsh Preserve	City of Torrance, Friends of Madrona Marsh	Currently the Preserve receives water from rainfall and urban run-off. The water is rich in phosphates, nitrates, and other pollutants which we would like to reduce or remove through filtration or other means.	-	-	-	-	-	X	0	20	NA	
91	Restoration, Madrona Marsh Preserve	City of Torrance, Friends of Madrona Marsh	Removal of non-native plant and replant area with native species.	-	-	-	-	-	X	0	30	NA	
92	Project S.O.U.N.D. (saving our unique natural diversity)	City of Torrance, Friends of Madrona Marsh	Research, locate and collect seeds and cuttings from local native plants for growing and propagation of plants that are needed for restoration throughout the Dominguez watershed.	X	-	-	-	-	X	-	-	NA	
93	Conversion of Henrietta Storm Drain Sump Tributary to Santa Monica Bay into	City of Torrance, SMBBB TMDL Jurisdictional Groups 5 & 6	This project would convert the Henrietta sump into an infiltration or bio-filtration BMP for bacteria TMDL compliance and provide open spaces for wildlife habitat and access for public use. This sump is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would also remove block walls and install wrought iron fences, provide public access and restore areas for wildlife use.	-	-	-	X	-	X	0	39	NA	
94	Conversion of Amie Storm Drain Sump Tributary to Santa Monica Bay into Infi	City of Torrance, SMBBB TMDL Jurisdictional Groups 5 & 6	This project would convert the Amie sump into an infiltration or bio-filtration BMP for bacteria TMDL compliance and provide open spaces for wildlife habitat and access for public use. This sump is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would also remove block walls and install wrought iron fences, provide public access and restore areas for wildlife use.	-	-	-	X	5	X	0	4	NA	
95	Conversion of Entradero Storm Drain Sump Tributary to Santa Monica Bay into	City of Torrance, SMBBB TMDL Jurisdictional Groups 5 & 6	This project would modify the Entradero sump to also function as an infiltration or bio-filtration BMP for bacteria TMDL compliance and provide open spaces for wildlife habitat. The sump is currently open for public use and has six baseball fields constructed in it. This sump is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would modify areas of the sump not used for public access to be used for wildlife habitat and storm water BMP.	-	-	-	X	69	X	0	25	NA	
96	Improvements to Entradero Storm Drain Channel for Storm Water Infiltration	City of Torrance, SMBBB TMDL Jurisdictional Groups 5 & 6	This project would modify the Entradero Channel to improve infiltration BMP for bacteria TMDL compliance. The channel is currently has an asphalt bottom and dirt slopes. This channel is tributary to the Entradero Sump/Park which is tributary to the Santa Monica Bay, specifically the storm drain outlet that has bacteria TMDL exceedences. This project would replace the asphalt bottom and sides of the channel with a pervious material to improve infiltration of storm water while maintaining vegetation on the slopes that improve slope stability and act as a BMP.	-	-	-	X	-	-	-	-	NA	
97	East Wilmington Greenbelt	Coastal Conservancy	Proposed park to provide recreation and habitat restoration in a park poor disadvantaged community adjacent to the harbor.	-	-	-	-	-	-	-	-	NA	
98	East Wilmington Coastal Trail connection to Los Angeles River	Coastal Conservancy	Upper and Lower Coastal Trail connecting San Pedro and Wilmington to the LA River	-	-	-	-	-	-	-	-	NA	
99	Harbor Regional Park	Coastal Conservancy	Proposed regional park connecting San Pedro residents, Peck and Leland Parks and Bandini Canyon to the waterfront.	-	-	-	-	-	-	-	-	NA	
100	Pacific Overlook / Sunken City	Coastal Conservancy	New park at the end of N. Gaffey providing access and habitat restoration to Sunken City.	-	-	-	-	-	-	-	-	NA	
101	Cabrillo Salt Marsh Enhancement	Coastal Conservancy	Enhancement of existing salt marsh	-	-	-	-	-	-	-	-	NA	
102	22nd Street Wetland	Coastal Conservancy	Enhancement of 22nd Street wetland in San Pedro	-	-	-	-	-	-	-	-	NA	
103	Dominguez Channel Habitat Restoration	Coastal Conservancy	Habitat creation/restoration in and along the Dominguez Channel	-	-	-	-	-	-	-	-	NA	
104	Chester L. Washington Golf Course Stream Restoration and Daylighting Projec	Coastal Conservancy	Restoration and daylighting of portions of Anderson Wash within CL Washington Golf Course	-	-	-	-	-	-	-	-	NA	
105	Ballona Lagoon Preserve	Coastal Conservancy, City of LA	West side Ballona Lagoon Preserve: island expansion, planting of native veg, removal of concrete oil platform, deep pool dredging, public overlook platform & walkway.	-	-	-	-	-	X	-	-	NA	
106	Ballona Wetlands Restoration	Coastal Conservancy, Dept. Fish and Game	Restore habitat and improve public access opportunities for all of the lands owned by the State of California, a total of 600 acres and the connected wetlands within the landscape context.	-	-	-	-	-	X	0	600	NA	
107	Ballona Creek Debris Fences	County of LA	Install multiple debris fences to catch additional trash and debris.	-	-	-	-	-	X	-	-	NA	
108	Education & Training for Careers in Native Plant & Water-wise Landscaping	CSU Dominguez Hills & El Camino College	Development of college-level certificate and BS degree programs focusing on native plant propagation and landscaping with native plants	X	-	-	-	-	X	-	-	NA	
109	Swales for Schools Demonstration Project	CSU Dominguez Hills Dept. of Biology and Madrona Marsh Preserve, Torrance	A demonstration swale, using runoff water and planted with native plants, will be constructed at a local elementary school. Students, families and school staff will actively participate in construction & maintenance. Educational materials on water, conservation and ecology will be developed for classroom use.	X	-	-	-	-	X	-	-	This is designed as a demonstration project. It could be rolled out to other campuses once developed.	

South Santa Monica Bay Subregion Projects

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110	Native Plant Gardening Workshops	CSU Dominguez Hills Dept. of Biology; possibly Madrona Marsh Preserve and C	Development of 4-session "hands on" workshop on home garden use of native plants. This workshop would be open to persons completing the 'Protector del Agua' series, and would complement that series.	X	-	-	-	-	-	-	-	NA
111	Effects of Recycled Water on Native Plants	CSU Dominguez Hills, Dept. of Biology	Greenhouse, garden and field research on the effects of recycled water on local native plants used for restoration and home/public plantings. The eventual aim is to find/develop native varieties tolerant of recycled water.	X	-	-	-	-	-	-	-	NA
112	City of Culver City Bicycle Master Plan	Culver City - MTA	BMP lays out streets and roads within CC limits. Application to MTA will assist in funding bike trails Class I, II, III. User-friendly streets make for ease of bike transportation.	-	-	-	-	-	X	-	-	NA
113	Enhance / Restore Habitat 1	Dominguez Watershed Advisory Council	1. Enhance / restore Wilmington Drain.	-	-	-	-	-	X	-	-	NA
114	Enhance / Restore Habitat 2	Dominguez Watershed Advisory Council	2. Enhance Machado Lake wetlands.	-	-	-	-	-	X	-	-	NA
115	Enhance / Restore Habitat 3	Dominguez Watershed Advisory Council	3. Enhance Gardena Willows.	-	-	-	-	-	X	-	-	NA
116	Enhance / Restore Habitat 4	Dominguez Watershed Advisory Council	4. Enhance WALTERIA Lake .	-	-	-	-	-	X	-	-	NA
117	Enhance / Restore Habitat 5	Dominguez Watershed Advisory Council	5. Enhance pocket wetlands.	-	-	-	-	-	X	-	-	NA
118	Enhance / Restore Habitat 6	Dominguez Watershed Advisory Council	6. Enhance and restore canyon habitats.	-	-	-	-	-	X	-	-	NA
119	Enhance / Restore Habitat 8	Dominguez Watershed Advisory Council	7. Daylight historic streams to restore wetlands.	-	-	-	-	-	X	-	-	NA
120	Enhance / Restore Habitat 9	Dominguez Watershed Advisory Council	8. Investigate feasibility and restore concrete-lined tributary channels.	-	-	-	-	-	X	-	-	NA
121	Increase use of pervious pavement during development and redevelopment.	Dominguez Watershed Advisory Council	Reduce Hardscape	-	-	-	-	-	X	-	-	NA
122	Increase Water Reuse 1	Dominguez Watershed Advisory Council	1. Increase use and expansion of the recycled water system.	-	-	-	-	-	X	-	-	NA
123	Increase Water Reuse 2	Dominguez Watershed Advisory Council	2. Increase installation of rain-water harvesting systems and cisterns.	-	-	-	-	-	X	-	-	NA
124	Increase Water Reuse 3	Dominguez Watershed Advisory Council	3. Develop and construct new alternative water sources.	-	-	-	-	-	X	-	-	NA
125	Reduce Discharge Impairments 1	Dominguez Watershed Advisory Council	6. Create wetlands to treat urban runoff.	-	-	-	-	-	X	-	-	NA
126	Reduce Discharge Impairments 2	Dominguez Watershed Advisory Council	7. Enhance existing detention/retention basins.	-	-	-	-	-	X	-	-	NA
127	Reduce Discharge Impairments 3	Dominguez Watershed Advisory Council	8. Route flows to detention/retention basins to reduce flooding and treat runoff.	-	-	-	-	-	X	-	-	NA
128	Reduce Discharge Impairments 4	Dominguez Watershed Advisory Council	9. Construct DURRF for water treatment and reuse.	-	-	-	-	-	X	-	-	NA
129	Reduce Legacy Pollutants	Dominguez Watershed Advisory Council	3. Develop and implement a sediment management plan for Machado Lake.	-	-	-	-	-	X	-	-	NA
130	Reduce Trash	Dominguez Watershed Advisory Council	2. Install and maintain catch basin inserts in high priority areas.	-	-	-	-	-	X	-	-	NA

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131	Storm Water Station Structural BMPs	El Segundo	Cistern/Rain barrel and Local Storage and Reuse at El Segundo Stormwater Stations #16, #17 and #18	-	-	-	-	-	-	-	-	-	NA
132	Kuruvunga Springs Restoration	Gabrielino Tongva Springs Foundation	Restoration of Kuruvunga Springs as a cultural and educational resource, including restoration of native vegetation.	-	-	-	-	-	X	-	-	-	NA
133	Restoration and Education at the Gardena Willows Wetland Preserve	Gardena Willows Committee & City of Gardena	Further restoration and management of the Preserve and development of a Nature Center and educational programs	-	-	-	-	-	X	-	-	-	preservation of last remnant of Dominguez Slough in area with little open space
134	County Courthouse Structural BMPs	LA County	Cistern/Rain barrel and Local Storage and Reuse	-	-	-	-	-	-	-	-	-	NA
135	Marina Beach Water Quality Improvement Project	LA County Dept. of Beaches & Harbors	Construct a water infusion system or other appropriate flushing mechanism, install structural BMPs in surrounding parking lots, replace existing sediment if necessary.	-	-	-	-	-	X	-	-	-	NA
136	Marina del Rey / Ballona Creek Trail Beneficial Use Enhancement Project	LA County Dept. of Beaches & Harbors	Improve beneficial uses of lower reach of Ballona Creek by expanding non-water related recreational opportunities, enhancing habitat, and improving the pedestrian walkway.	-	-	-	-	-	X	-	-	-	NA
137	Oxford Flood Control Basin Enhancements	LA County Dept. of Beaches & Harbors	Install new fencing, lighting, irrigation, landscaping, bank improvements, interpretive signage and promenade along Washington Street, Admiralty Way and boundary with Admiralty Park.	-	-	-	-	-	X	-	-	-	NA
138	Public Parking Lot Structural BMP Project	LA County Dept. of Beaches & Harbors	Structural BMPs at Marina del Rey County-owned public parking lots.	-	-	-	-	-	X	-	-	-	NA
139	Ballona Wetlands Walkway	LA County DPW	Walkway from Pacific Ave. to the wetlands	-	-	-	-	-	X	-	-	-	NA
140	Sepulveda Feeded Interconnection	LA County Waterworks District No. 29	The objective of this project is to introduce a new primary source of water supply for the Marina Del Rey, Malibu and Topanga areas, to increase water supply reliability and provide redundancy to the District.	X	-	-	-	-	-	-	-	-	NA
141	Baldwin Hills to Ballona Trail BMPs (Baldwin Infiltration)	LA/DPWBOS/W PD	The project objective is for the design and installation of structural parking lot BMPs and non-structural infiltration devices to provide ecological methods for water pollution control and mitigation of urban storm water runoff from PCH and adjacent beach	-	-	-	-	-	-	-	-	-	NA
142	Ballona Creek Disinfection	LA/DPWBOS/W PD	Remove bottlenecks in storm drains by replacing them with large connector pipes, create new storm drain systems with more inlets, replace undersized catch basins, reduce spill over and runoff and debris from watersheds north of Pacific Coast Highway.	-	-	-	-	-	-	-	-	-	NA
143	Ballona Creek Street Retrofit	LA/DPWBOS/W PD	The proposed project is a habitat restoration priority for restoring native watershed habitat adjacent to Triunfo Creek	-	-	-	-	-	-	-	-	-	NA
144	South Santa Monica Watershed Runoff Treatment, Reuse, and Infiltration Proj	LA/DPWBOS/W PD	Improve water quality through provision of BMPs to control site runoff across the beach before reaching Santa Monica Bay; Replace exotic vegetation with native coastal landscaping	-	-	-	-	-	-	-	-	-	NA
145	Mar Vista Park Retrofit	LA/DPWBOS/W PD	Improve all-weather public access across Zuma Creek by constructing raised causeway; Install runoff BMPs; Enhance fish habitat by removing physical barriers to upstream steelhead migration (request of CDFG).	-	-	-	-	-	-	-	-	-	NA
146	JWPCP Marshland Enhancement	LACSD	Restoration of vegetation and wildlife habitat value of the 17 acre freshwater JWPCP marshland that provides stormwater treatment and flood control. The project also includes educational and recreational facilities.	-	-	-	X	2	X	-	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging and nesting habitat for a variety of birds including the great egret.
147	Westside Recycling Project	LADWP	Construct 2,700 feet of pipeline (Phases 1C & 1D) to deliver recycled water to customers on the Westside.	X	200	0	-	-	-	-	-	-	NA
148	Harbor Recycling Unit IV	LADWP	7,300 feet of pipeline to deliver recycled water from Terminal Island Advanced Waste Water Treatment Plant to the ConocoPhillips Refinery.	X	2800	0	-	-	-	-	-	-	NA
149	Harbor Recycling Unit V	LADWP	8,000 feet of pipeline to deliver recycled water from Terminal Island Advanced Waste Water Treatment Plant to the Valero Refinery.	X	3500	0	-	-	-	-	-	-	NA
150	Construct up to a 25 mgd Seawater Desalination Plant the city of Los Angeles	LADWP	The project proposes to construct up to a 25mgd Seawater Desalination Plant in the Scattergood Generating Station for potable water use.	X	0	28000	-	-	-	-	-	-	NA
151	99th Street Wells Ammoniation Station	LADWP	Plan, design and construct the 99th Street Wells Ammoniation Station to add aqua ammonia to form a chloramine residual disinfectant in the water being supplied to customers from the 99th Street Well Field.	-	-	-	X	-	-	-	-	-	Required for system-wide conversion to chloramine disinfection
152	Manhattan Well Field Rehabilitation	LADWP	Project will construct six new production wells at LADWP's Manhattan Well Field in the Central Basin to restore the historic production capacity of the well field, and to improve operational reliability and flexibility	X	3000	0	-	-	-	-	-	-	The enhanced groundwater production capacity will allow the City to enter into a 15,000 - 30,000 acre-foot conjunctive use program in the Central Basin to better utilize local water resources
153	Manhattan Wells Ammoniation Station	LADWP	Plan, design and construct the Manhattan Wells Ammoniation Station to add aqua ammonia to form a chloramine residual disinfectant in the water being supplied to customers from the Manhattan Well Field.	-	-	-	X	-	-	-	-	-	The Manhattan Wells Ammoniation Station is required for Phase 3 of the system-wide conversion to chloramine disinfection. This station will treat the groundwater produced by the Manhattan Street Wells. The conversion to chloramine disinfection is necessary to reduce the level of disinfection byproducts, including THMs, in the water served to the consumer and comply with the requirements of the Federal Stage 2 Disinfectants and Disinfection Byproducts Rule which became effective on March 6, 2006.
154	Modifications at LA-29 (sunset)	LADWP	Coordinate with MWD for the installation of metering and increased pipe size at the LA-29 Connection. Project includes the installation of 250 feet of 60 inch steel pipe, and 2300 feet of 36-inch steel pipe. System monitoring facilities will also be installed.	-	-	-	-	-	-	-	-	-	Will provide metering of MWD supply into LADWP system. This project will increase reliability of system pressure when Upper Stone Canyon reservoir is taken out of service.
155	Mulholland Pump Station & Chlorine Station Replacement	LADWP	Design and construct a 2,300 gallon per minute capacity pump station and a new 6 ton-container capacity chlorination station	-	-	-	-	-	-	-	-	-	To provide pumped supply to the 946-ft service area and emergency disinfection for Lower Hollywood Reservoir. The current combined pump station and chlorination station building has deteriorated and is susceptible to seismic damage. The chlorination station is under sized.

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156	Los Angeles Harbor Bacteria TMDL - Low Flow Diversion	Los Angeles County Flood Control District	Develop low-flow diversions within the Los Angeles Harbor watershed to comply w/ the Harbor Bacteria TMDL.	-	-	-	-	-	-	-	-	NA
157	West Coast Basin Seawater Barrier Telemetry System	Los Angeles County Flood Control District	This project involves the installation of equipment to remotely monitor injection wells to improve the overall effectiveness and efficiency in the operation of the West Coast Basin Seawater Barrier.	X	1000	0	-	-	-	-	-	NA
158	Dominguez Channel Greenway	Los Angeles County Flood Control District	Development of a native landscaped greenway and bikeway along the Dominguez Channel.	-	-	-	-	-	-	-	-	NA
159	Olive Circle Cisterns Community Retrofit	Los Angeles County Flood Control District	Work w/ area residents to retrofit an unincorporated County community to install cisterns and BMPs to address flooding and water quality issues.	-	-	-	-	-	-	-	-	NA
160	Crenshaw Regional Flood Relief Multiuse	Los Angeles County Flood Control District	Address regional flooding hazards through multiobjective watershed management solutions for the Crenshaw regional drainage system in the Dominguez watershed.	-	-	-	-	-	-	-	-	NA
161	White Point Nature Preserve	Los Angeles Department of Recreation and Parks (LADRP)	Further implementation of the master Plan objectives for the 102 acre site, including habitat restoration, native gardens, interpretive exhibits/signage, trail enhancements and view stations. Retain and restrict rain/stormwater on site through native habitat restoration, smart irrigation, and stormwater/parking lot drainage BMPs.	-	-	-	X	-	X	0	90	NA
162	Golf Course BMPs — Harbor Park Golf Course	Los Angeles Department of Recreation and Parks (LADRP)	Installation of dry swale drainage systems throughout the golf course to replace existing concrete drainage channels for capture and infiltration of storm flows; installation of new wash rack systems at the golf course service yard with a new state-of-the-art water treatment and recycling system to capture, treat and reuse mechanical equipment wash water.	-	-	-	X	-	-	-	-	NA
163	Machado Lake and Wilmington Drain Water Quality and Habitat Restoration Pro	Los Angeles Department of Recreation and Parks (LADRP)	Develop projects to improve water quality and habitat in the Wilmington Drain and the connected Machado Lake and lower wetlands. The site represents the only remaining natural wetlands in the L.A. Harbor area and serves a particularly important role in sustaining migratory and local bird populations in the L.A. area. The lake is a polluted freshwater system with limited water circulation and continuous siltation that outlets to the San Pedro Bay. The only source of water is urban and stormwater runoff conveyed primarily by the Wilmington Drain. The lake and surrounding habitat suffer from a variety of impairments and has numerous 303(d) listings. It also suffers from an overgrowth of emergent vegetation.	-	-	-	X	-	-	-	-	NA
164	Del Rey Lagoon Stormwater Storage and Reuse and Habitat Restoration	Los Angeles Department of Recreation and Parks (LADRP)	Installation of hydro-dynamic separators and underground detention tank, water treatment system, and facility pumping station. Shoreline restoration and native plants around the lagoon, and upgrades to the tidal gate for controlling tidal flows in the lagoon.	-	-	-	X	-	-	-	-	NA
165	Golf Course BMPs — Penmar Golf Course	Los Angeles Department of Recreation and Parks (LADRP)	Installation of dry swale drainage systems throughout the golf course to replace existing concrete drainage channels for capture and infiltration of storm flows; installation of new wash rack systems at the golf course service yard with a new state-of-the-art water treatment and recycling system to capture, treat and reuse mechanical equipment wash water	-	-	-	X	-	-	-	-	NA
166	Potrero Canyon Park Phase III	Los Angeles Department of Recreation and Parks (LADRP)	Provide passive recreation, including trails, within the canyon, restore 7.9 acres of riparian habitat, install a variety of native plant material (beyond riparian area), build stormwater BMPs, construct interpretive signage, install a smart-weather based irrigation system, comply with Coastal Commission parking and access requirements.	-	-	-	X	-	X	0	10	NA
167	Golf Course BMPs — Rancho Park Golf Course	Los Angeles Department of Recreation and Parks (LADRP)	Installation of dry swale drainage systems throughout the golf course to replace existing concrete drainage channels for capture and infiltration of storm flows; installation of new wash rack systems at the golf course service yard with a new state-of-the-art water treatment and recycling system to capture, treat and reuse mechanical equipment wash water	-	-	-	X	-	-	-	-	NA
168	Peck Park Canyon Project	Los Angeles Neighborhood Initiative	The Peck Park Canyon project revitalizes a seasonal stream that empties into the impaired San Pedro Bay and 31 acres of underutilized and under-maintained canyon open space in San Pedro. The project will improve water quality and flood management while it also creates a much-needed recreational and educational asset for the community through native plantings and the restoration and expansion of a neglected, rudimentary trail system.	-	-	-	-	-	-	-	-	Flood protection (Level of water quality and flood protection TBD through additional analysis conducted by LA City Bureau of Sanitation (to be completed in May/June 2006)
169	DBH Parking Lot 5 Bioretention Filter	Marina del Rey Watershed Responsible Agencies	Installation of Bioretention filter system to capture sheet flow from the parking lot	-	-	-	-	-	-	-	-	NA
170	Los Angeles County Fire Department	Marina del Rey Watershed Responsible Agencies	Install bioretention filter system to capture sheet flow from the parking lot.	-	-	-	-	-	-	-	-	NA
171	DBH Parking Lot 7 Cistern/Rain Barrel	Marina del Rey Watershed Responsible Agencies	Installation of cistern/rain barrel to store stormwater runoff from the parking lot, treat it and reuse it for the Admiralty Park irrigation	-	-	-	-	-	-	-	-	NA
172	Marina Del Rey Library Bioretention Filter System	Marina del Rey Watershed Responsible Agencies	Installation of Bioretention filter system to capture sheet flow from the parking lot	-	-	-	-	-	-	-	-	NA
173	Admiralty Park Cistern/Rain Barrel	Marina del Rey Watershed Responsible Agencies	Installation of Cistern/rain barrel to store stormwater from the surrounding areas	-	-	-	-	-	-	-	-	NA
174	Oxford Basin Regional Structural BMPs	Marina del Rey Watershed Responsible Agencies	Install regional structural BMPs at Oxford Basin to treat and reuse runoff captured from the upper watershed.	-	-	-	-	-	-	-	-	NA
175	Venice Boulevard	Marina del Rey Watershed Responsible Agencies	Implement structural BMPs such as biofiltration or other treatment technologies to treat runoff.	-	-	-	-	-	-	-	-	NA
176	Ballona Creek Recreation and Restoration Plan	Mountains Recreation and Conservation Authority	Restoration of the 7.2 mile of Ballona Creek Bike path will include creek side native plantings and parks, BMPs, bike path striping, way finding signage and improved connection between Baldwin Hills and the Pacific Ocean. Additionally, this project will increase visibility and public awareness of Ballona Creek restoration efforts.	-	-	-	X	-	X	0	6	NA

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196	Crescent Bay Park-Green Beach Parking Lot Structural BMPs	Santa Monica	Infiltration	-	-	-	-	-	-	-	-	-	NA
197	Mary Hotchkiss Park Structural BMPs	Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration	-	-	-	-	-	-	-	-	-	NA
198	Los Amigos Park Structural BMPs	Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration	-	-	-	-	-	-	-	-	-	NA
199	Joslyn Park Structural BMPs	Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration	-	-	-	-	-	-	-	-	-	NA
200	Santa Monica City Hall Structural BMPs	Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration	-	-	-	-	-	-	-	-	-	NA
201	Clover Park Structural BMPs	Santa Monica	Infiltration	-	-	-	-	-	-	-	-	-	NA
202	Virginia Avenue Park Structural BMPs	Santa Monica	Infiltration	-	-	-	-	-	-	-	-	-	NA
203	Christine Emerson Reed Park Structural BMPs	Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration	-	-	-	-	-	-	-	-	-	NA
204	Schader and/or Park Dr. Park Structural BMPs	Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration	-	-	-	-	-	-	-	-	-	NA
205	Douglas Park Structural BMPs	Santa Monica	Cistern/Rain barrel and Local Storage and Reuse, Infiltration	-	-	-	-	-	-	-	-	-	NA
206	Centinela Basin Dry-Weather Runoff Diversion & BMP	SMBRC	City of Santa Monica is implementing project	-	-	-	-	-	X	-	-	-	NA
207	Lafayette Park Creek Daylighting and Park Expansion	SMBRC	Daylight buried creek running through Lafayette Park. Acquire 2 parcels at intersection of Wilshire and Hoover, totally 2.8 acres. Install BMPs and relocate active recreation to that corner.	X	-	-	X	-	X	2.8	2.8	-	NA
208	Silverlake Reservoir Recycled Water Wetland	SMBRC	Convert Silverlake Reservoir to a wetland utilizing reclaimed water from a local sewage treatment plant and seasonal local stormwater runoff. Remove fencing and provide trails and habitat viewing areas.	-	-	-	-	-	-	-	-	-	NA
209	Upper Sepulveda Channel BMPs	SMBRC	BMPs and upland habitat plantings along Sepulveda Channel along Sepulveda Blvd near Sunset.	-	-	-	X	-	-	-	-	-	NA
210	Middle Sepulveda Channel BMPs	SMBRC	Development of BMPs, upland habitat enhancements and greenway trail along Sepulveda Channel in Palms/West LA area.	-	-	-	X	-	X	-	-	-	NA
211	Deep Canyon Basin Conversion	SMBRC	Convert detention basin to wetland. Spring flows from upstream currently flow into concrete basin and to stormdrain.	-	-	-	-	-	X	-	-	-	NA
212	Del Rey Lagoon BMPs	SMBRC	Improve tidal flushing, water temperatures, and water quality at Del Rey lagoon. Increase aquatic habitat.	-	-	-	X	-	X	-	-	-	NA
213	Grand Canal BMPs	SMBRC	Improve quality of surface runoff draining into the Venice Canal/Grand Canal system through installation of street end BMPs. Improve upland/tidal channel habitat interface.	-	-	-	X	-	X	-	-	-	NA
214	Centinela Creek Daylighting	SMBRC	Daylight historic Centinela Creek through Edward Vincent Park.	-	-	-	X	-	X	-	-	-	NA
215	Ladera County Park Daylighting	SMBRC	Daylight historic creek through Ladera County Park	-	-	-	X	-	X	-	-	-	NA
216	Oxford Basin Treatment Wetland	SMBRC	Treatment wetland and BMPs to improve water quality of Oxford Basin.	-	-	-	X	-	-	-	-	-	NA
217	Centinela Channel Greenway	SMBRC	Development of upland habitat enhancements and greenway trail along approximately 3.5 miles of Centinela Channel from its confluence with Ballona Creek upstream to approximately La Cienega Blvd. Implementation of portions of Lower Ballona Ecosystem Resto	-	-	-	X	-	X	18	40	-	NA
218	Lower Sepulveda Channel Greenway	SMBRC	Development of upland habitat enhancements and greenway trail along approximately 1 mile of Sepulveda Channel in Mar Vista. Will provide bicycle trail connectivity from Ballona Creek to Culver Blvd bike trail and Washington Blvd.Feasibility analysis of n	-	-	-	X	-	X	6	12	-	NA
219	Lafayette Park Creek Daylighting and Park Expansion	SMBRC	Acquisition of 2.8 acres and daylighting of buried stream through park.	-	-	-	-	-	-	-	-	-	NA
220	10 Freeway native prairie enhancements & BMPs	SMBRC	Habitat enhancements and bioswales utilizing native grasses and wildflowers to treat runoff from 10 freeway from downtown to Santa Monica. Project to include monitoring component for testing of effectiveness of native grasses for biofiltration/metals upt	X	-	-	X	-	X	-	-	-	NA
221	Benedict Channel Greenway	SMBRC	Development of upland habitat enhancements and greenway trail along approximately 1 mile of Benedict Creek Channel in Cheviot Hills vicinity. Feasibility analysis of naturalization of channel invert/one side of channel.	-	-	-	X	-	X	6	12	-	NA
222	Golf Course Creek Restorations	SMBRC	Provides 50% matching funds to support creek daylighting and restoration at private golf courses. Relevant creeks include Kenter Creek (Brentwood Country Club), Benedict Creek (Los Angeles Country Club), and Arroyo del Jardin de las Flores (Wilshire Coun	X	-	-	X	-	X	-	-	-	NA
223	Ballona watershed floodplain acquisitions	SMBRC	This project acquires and landbanks floodplain or floodprone properties, including historically floodprone properties, anywhere in the Ballona Creek watershed, stream or wetland restoration/daylighting funds, or where not immediately feasible, short-term	-	-	-	X	-	-	280	900	-	NA
224	Ballona Greenroofs Initiative	SMBRC	Provides 50% matching funds to private property owners in zones of Ballona watershed with 75% or greater impermeable lot coverages as incentive to establish greenroofs to detain runoff. Property owners committing to maintaining natives on greenroof recei	-	-	-	X	-	X	-	-	-	NA
225	Ballona watershed stream, spring and wetlands conservation easements	SMBRC	Establishes funds to secure conservation easements on the properties with streams, wetlands, or springs.	-	-	-	X	-	X	50	10000	-	NA
226	Kenter Creek naturalization improvements	SMBRC	Creates matching fund for homeowners who engage in restoration of Kenter Creek through their property. Restoration activities can include: removal of hydromodifications (rock, concrete, etc), restoration of appropriate meander, habitat, grading of appro	X	-	-	X	-	X	-	-	-	NA
227	Lower Ballona Ecosystem Restoration Implementation	SMBRC	Contribute match to federal funds for implementation of Lower Ballona Ecosystem Restoration Feasibility Study	-	-	-	X	-	-	27	150	-	NA
228	Habitat Patchwork Parks	SMBRC	Acquisition and development of 1/8 acre-1/2 acre nativescape passive parks with BMPs for every .25 square mile of residential area in Westlake, Koreatown, Lafayette Square, Mid-City, West Adams, Jefferson Park, North University Park, Harvard Heights, Expo	-	-	-	X	-	X	12.5	50	-	NA
229	MacArthur Park Wetland Conversion	SMBRC	This site was historically a wetland. The project seeks to convert the lake to a wetland using reclaimed water and seasonal runoff. Water levels will be managed in the rainy season to make the lake a detention basin with treatment wetland capability.	X	-	-	X	-	X	-	-	-	NA
230	Arroyo del Jardin de las Flores naturalization improvements	SMBRC	Creates matching fund for homeowners who engage in restoration of Arroyo del Jardin de las Flores through their property. Restoration activities can include: removal of hydromodifications (rock, concrete, etc), restoration of appropriate meander, habita	X	-	-	X	-	X	-	-	-	NA

South Santa Monica Bay Subregion Projects													
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231	Stone Creek naturalization improvements	SMBRC	Creates matching fund for homeowners who engage in restoration of Stone Creek through their property. Restoration activities can include: removal of hydromodifications (rock, concrete, etc), restoration of appropriate meander, habitat, grading of approp	X	-	-	X	-	X	-	-	NA	
232	Stone Canyon Reservoir Wetland Conversion	SMBRC	Convert reservoir from Emergency Supply to wetland supplied by reclaimed water and seasonal runoff. Project will reduce consumption of imported water and increase habitat.	X	-	-	-	-	X	-	-	NA	
233	Ferndell BMPs	SMBRC	Improve quality of surface runoff draining into Ferndell Creek through implementation of BMPs. Remove/replace hydraulic constriction of Ferndell Road over the creek by replacement with a bridge.	-	-	-	X	-	X	-	-	NA	
234	Wonderland Creek Enhancements	SMBRC	Provides matching funds to property owners on Wonderland Creek to support habitat restoration projects.	-	-	-	X	-	X	-	-	NA	
235	Benedict Canyon Spring Restorations	SMBRC	Matching funds to restore springs and spring-fed creeks running through private property in the Benedict Canyon sub-drainage of the Ballona Creek Watershed. Restoration actions may include: daylighting of culverted reaches of creek, BMPs to protect sprin	X	-	-	X	-	X	2	4	NA	
236	Upper Franklin Canyon Creek Restoration	SMBRC	Restoration of upper Franklin Creek, including restoration of natural channels through detention basin, parking lot(conc. channel), and roadside swale areas. Redirect main flows to historic creek channel, install roadside BMPs to protect water quality an	-	-	-	X	-	X	-	-	NA	
237	Hollywood Reservoir	SMBRC	Convert reservoir from Emergency Supply to wetland supplied by reclaimed water and seasonal runoff. Project will reduce consumption of imported water and increase habitat.	X	-	-	-	-	X	-	-	NA	
238	Ballona Creek Litter Monitoring Project	SMBRC (Prop. 12)	Implemented by LAC-DPW	-	-	-	-	-	X	-	-	NA	
239	Ballona Watershed BMP Prioritization	SMBRC (Prop. 12)	To be implemented by watershed cities and County	-	-	-	-	-	X	-	-	NA	
240	Ballona Wetlands Dunes Restoration	SMBRC (Prop. 12)	Implemented by Friends of Ballona Wetlands	-	-	-	-	-	X	-	-	NA	
241	Ballona Creek Water Quality Improvement Project	SMBRC (Prop. 12)	Implemented by Culver City	-	-	-	-	-	X	-	-	NA	
242	Ballona Creek Water Quality Improvement Project - CDS installations	SMBRC (Prop. A)	Implemented by City of LA DPW	-	-	-	-	-	X	-	-	NA	
243	Jefferson Blvd/Ballona Creek BMPs	SMBRC/MRCA	Installation of BMPs along Jefferson Blvd and industrial properties south of Ballona Creek to improve water quality that drains into creek.	-	-	-	X	-	-	-	-	NA	
244	Ballona Creek Trail and Bikeway Improvements - Phase I	SMMC	Improvements to bike trail access points, landscaping, signage, and public outreach.	-	-	-	-	-	X	-	-	NA	
245	Ballona Creek Treatment Wetlands Park	Surfrider Foundation & Ballona Wetlands Land Trust	Acquire as much of the remaining land in Parcel D as feasible (site of Playa Vista development) for the purpose of reconstructing wetlands and utilizing them to capture, treat and re-charge/re-use/store storm water and dry-weather urban runoff discharged into the lower Ballona Creek Watershed (particularly that entering Centinela Creek). An application for funding by City of Los Angeles' Proposition O received positive remarks. The district City Councilman and Mayor could initiate discussions with the landowners, as was done in 2003 when 439 acres of wetlands were purchased by the State of California.	X	-	-	X	-	X	-	-	While detailed estimates will not be available until after a feasibility study is completed at the Ballona Wetlands site, it is reasonable to assume effectiveness roughly comparable to the constructed wetlands at the San Joaquin Marsh which is used to filter urban storm runoff in the Irvine Ranch Water District (IRWD) service area. According to Norris Brandt (P.E. from IRWD), that 68 acre constructed wetland has a maximum flow of 5 cu ft./s, and reduces the following pollutants by the these percentages: <ul style="list-style-type: none"> • 70% nitrogen reduction • 30% of phosphorous reduction • 25% of bacteria / pathogens reduction • 15% of heavy metals reduction If the entire Area D in Playa Vista were converted to wetlands, it would cover an area 3 times as large as the San Joaquin Marsh thus could theoretically handle 15 cu ft/s of flow.	
246	Ballona Creek Treatment Wetland Park	Surfrider Foundation & Ballona Wetlands Land Trust	Acquire as much of the remaining land in Parcel D as feasible (site of Playa Vista development) for the purpose of reconstructing wetlands and utilizing them to capture, treat and re-charge/re-use/store storm water and dry-weather urban runoff discharging into the lower Ballona Creek Watershed (specifically, diverting Centinela Creek and surrounding storm drains).	X	-	-	X	-	X	-	-	While detailed estimates will not be available until after our feasibility study is completed at the Ballona Wetlands site, it is reasonable to assume effectiveness roughly comparable to the constructed wetlands at the San Joaquin Marsh which is used to filter urban storm runoff in the Irvine Ranch Water District (IRWD) service area. According to Norris Brandt (P.E. from IRWD), that 68 acre constructed wetland has a maximum flow of 5 cu ft./s, and reduces the following pollutants by the these percentages: <ul style="list-style-type: none"> • 70% nitrogen reduction • 30% of phosphorous reduction • 25% of bacteria / pathogens reduction • 15% of heavy metals reduction If the entire Area D in Playa Vista were converted to wetlands, it would cover an area 3 times as large as the San Joaquin Marsh thus could theoretically handle 15 cu ft/s of flow.	
247	Centinela Creek Trail Greenway	TBD	Multiple objectives	-	-	-	-	-	X	-	-	NA	
248	Creek to Baldwin Hills Trail under Utility Lines	TBD	Bicycle , hiking, & habitat connection, including stormwater retention, recreation, etc.	-	-	-	-	-	X	-	-	NA	
249	Public Education and Outreach	TBD	Develop an education and outreach program for the public and business to encourage source reduction (reduced packaging) and discourage litter.	-	-	-	-	-	X	-	-	NA	
250	Creekside Campus and Park Native Landscaping / BMPs 1	TBD	Watershed improvements; overlay of existing open space uses	-	-	-	-	-	X	-	-	NA	

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280	Water Conservation Program	West Basin MWD	Partner with the South Bay COG and the Westside Cities COG for Water Conservation Program- Assist the District in promoting programs and distributing incentives for devices to residents.	X	-	-	-	-	-	-	-	Education
281	Complete Restroom Retrofits	West Basin MWD	This program provides free hardware devices for commercial restrooms including high-efficient toilets, waterless urinals, and faucets.	-	0	16	-	-	-	-	-	NA
282	Conductivity Controller Incentives 2	West Basin MWD	This program provides prescriptive incentives for installation of conductivity and pH controllers.	-	0	90	-	-	-	-	-	NA
283	High- Efficiency Toilet Rebates	West Basin MWD	This program provides high-efficiency toilet rebates to residents and businesses.	-	0	5	-	-	-	-	-	NA
284	Industrial Process Improvement	West Basin MWD	This program will build on Metropolitan Water District's existing program to provide customized incentives based upon the amount of water saved. This program will target industrial processes such as food processing, textiles, fabricated metals, electronics and industrial laundries.	-	0	130	-	-	-	-	-	NA
285	Irrigation Equipment/Water Budget	West Basin MWD	This program offers customized incentives including matching heads, pressure regulators and weather-based irrigation controllers for landscape customers including multi-family, commercial and institutional.	-	0	58	-	-	-	-	-	NA
286	Laundromat Retrofits	West Basin MWD	This Program offers substantial incentives from multiple utilities to replace non-efficient washers and dryers with more efficient ones.	-	0	10	-	-	-	-	-	NA
287	Pre-Rinse Spray Valve Installs	West Basin MWD	The program involves the installation of pre-rinse spray valves at food services locations.	-	0	84	-	-	-	-	-	NA
288	Residential ULFT/HECW Rebates	West Basin MWD	This program involves providing rebated to residents and businesses with ultra-low flush toilet and high- efficiency clothes washer rebates.	-	0	36	-	-	-	-	-	NA
289	Complete Restroom Retrofits Location 2	West Basin MWD	This program provides free hardware devices for commercial restrooms including high-efficient toilets, waterless urinals, and faucets.	-	16	8	-	-	-	-	-	NA
290	Conductivity Controller Incentives Location 2	West Basin MWD	This is a new program that provides prescriptive incentives for installation of conductivity and pH controllers. Funding for this program will allow the District to hire a vendor to educate commercial owners about the rebates available for equipment that conserves water. The benefits would include a reduction of wastewater generated, benefiting the LA County Sanitation Districts, and potable water used. Partners may include MWD, LADWP, and the Sanitation Districts.	-	90	45	-	-	-	-	-	NA
291	High- Efficiency Toilet Direct Installation 2	West Basin MWD	This program provides free installation of high-efficiency toilets to the multi-family sector, which includes apartment complexes, condos, senior apartments, and other residential multi-family facilities.	-	5	2	-	-	-	-	-	NA
292	Industrial Process Improvement Location 1	West Basin MWD	This is a new program that will build on Metropolitan Water District's existing program to provide customized incentives based upon the amount of water saved. This program will target industrial processes such as food processing, textiles, fabricated metals, electronics and industrial laundries.	-	130	65	-	-	-	-	-	NA
293	Irrigation Equipment/Water Budget Location 2	West Basin MWD	This program offers landscape audits and customized incentives for matching heads, pressure regulators and weather-based irrigation controllers for landscape customers including multi-family, commercial and institutional and provides water audits on the landscape sites. The water budgets will be created and the budget and a listing of recommended equipment upgrades will be given to the large landscape customers. The target market will be large landscape customers, specifically home owner associations.	-	58	29	-	-	-	-	-	NA
294	Laundromat Retrofits Location 2	West Basin MWD	This is a new program that offers substantial incentives from multiple utilities (Gas Company, Edison, and MWD) to replace non-efficient washers and dryers with more efficient devices. Some utilities currently provide funding for energy-efficient washer machines, so additional funding will expand the program to allow for more rebate incentives.	-	10	5	-	-	-	-	-	NA
295	Save-A-Buck Program Location 2	West Basin MWD	The Save-A-Buck Commercial, Industrial and Institutional (CI) program provides rebates to businesses, schools and other facilities for commercial clothes washers, waterbrooms, cooling tower conductivity controllers, pre-rinse spray nozzles, x-ray machine recirculating devices and commercial toilets and urinals. Funding for this program would be for conducting workshops, providing more rebate incentives (marketing materials), and hiring an auditor to perform water and energy audits for businesses, schools and other facilities. This is a new program through the partnership between the District and the South Bay Cities Council of Governments. It can be expanded to include other partners such as the Westside Cities COG.	-	62	42	-	-	-	-	-	NA
296	Residential High-Efficiency Clothes Washer Rebates Location 2	West Basin MWD	This program involves providing rebates to residents and businesses with high- efficiency clothes washer rebates. This program has both water and energy savings components. MWD currently provides a rebate that will end in December 2006. This program would be kick started thereafter, but before HECWs are mandated, and provide 2000 rebates per year at approx. \$250,000	-	36	18	-	-	-	-	-	NA
297	Smart Controller Distributions Location 2	West Basin MWD	This is a new program that offers free smart controllers to single-family landscapes to more-efficiently irrigate landscapes. There is funding currently budgeted in the District's Conservation Budget for Fiscal Year 2006-07 for installation of the devices. This program would provide free product distributions at events similar to toilet distributions and potential partners include MWD and DWR.	-	10	5	-	-	-	-	-	NA
298	Supermarket Retrofits Location 2	West Basin MWD	This is a new program that will provide and install free pre-rinse spray valves, high-efficiency toilets, wireless urinals, and waterbrooms for supermarkets and food stores. The District would partner with MWD.	-	12	6	-	-	-	-	-	NA
299	Supermarket Retrofits Location 1	West Basin MWD	North Santa Monica Bay, Ballona Creek, Lower Santa Monica Bay, and Dominguez Watersheds	X	6	0	-	-	-	-	-	NA
300	Construct Treatment Wetlands Study	West Basin MWD	The purpose of this project is to identify sites that would be suitable to act as a treatment wetland to treat urban runoff of TMDLs before it enters into the rivers and ocean.	-	-	-	-	-	-	-	-	NA
301	West Hollywood Bicycle Master Plan	West Hollywood MTA	Planning and implementation underway	-	-	-	-	-	X	-	-	NA
302	Telco Wetland Restoration	Wetlands Recovery Project	Restoration and protection of this small remnant wetland in one of our most highly urbanized watersheds.	X	-	-	X	-	X	-	-	Increase stakeholder participation in land and water stewardship through outreach and education.
303	Albertoni Farms Wetland Restoration	Wetlands Recovery Project	Restoration and protection of this 26-acre remnant wetland in one of our most highly urbanized watersheds.	X	-	-	X	-	X	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging habitat for woodlands raptors including Cooper's hawk, red shouldered hawk and open areas provide foraging for red tail hawk.
304	Lomita Vernal Pool	Wetlands Recovery Project	The Lomita Vernal Pool is a remnant pool of the Los Angeles Coastal Prairie that once covered 95 sq kilometers from Ballona Bluff to the Palos Verdes Peninsula. The pool is in a fenced undeveloped parcel within a residential area east of Lomita City Hall. Lomita General Plan states that sensitive habitat for the western spadefoot toad (Spea hammondi) occurs near City hall, which corresponds to this pool's location. This pool needs to be stored and protected as habitat for the western spadefoot toad.	X	-	-	X	-	X	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging and nesting habitat for a variety of birds.
305	Walteria Lake	Wetlands Recovery Project	Walteria Lakes functions both as a water retention and recharge basin and is approximately 100 acres in size. The basin is owned by LA County and is hydraulically linked to Machado Lake. Riparian vegetation is present in the bottom of the basin. Habitat needs to be enhanced and protected in this basin.	X	-	-	X	-	X	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging and nesting habitat for a variety of birds.

South Santa Monica Bay Subregion Projects

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				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
306	El Dorado Detention Basin	Wetlands Recovery Project	This small basin consists of wide grassy slopes and soft bottom that supports numerous eucalyptus trees forming a wide canopy and providing bird habitat. This habitat needs to be enhanced and protected.	X	-	-	X	-	X	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging and nesting habitat for a variety of birds.
307	Ocean Retention Basin	Wetlands Recovery Project	Ocean Retention Basin is a large, deep basin characterized by steep side slopes predominately vegetated with non-species. The floor of the basin appears to be groomed on a regular basis is essentially bare. Native riparian vegetation occurs at an inlet located at the northeast corner of the basin consisting of cattails, willows, and mule fat. This habitat needs to be enhanced and protected.	X	-	-	X	-	X	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging and nesting habitat for a variety of birds.
308	Del Amo Detention Basin	Wetlands Recovery Project	Del Amo Detention Basin is a large deep basin with steep sides. The vegetation on the slopes is primarily non-native grasses with several large acacia shrubs. Several large willows and scattered mule fat occur on the basin floor. For part of the year the basin holds standing water (wetland). This habitat needs to be stored through removal of non-natives.	X	-	-	X	-	X	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging and nesting habitat for a variety of birds.
309	Amie Basin	Wetlands Recovery Project	Amie Basin is primarily a nuisance-flow basin for retention of storm water. It is constructed with steep cement sidewalls sloping to a soft clay bottom. Riparian vegetation is present consisting of willow, mulefat, and sycamores which provides for bird habitat.	X	-	-	X	-	X	-	-	Enhance and protect habitat in one of our most habitat deficit watersheds in Los Angeles. The riparian vegetation provides foraging and nesting habitat for a variety of birds.

Regional Projects												
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1	CalFedHomeWater	Gerald Chernick Proponent	CalFed Home-Water establishes the strategic water reserves for both the LA County and the Antelope Valley Water Plan by using proven reservoir and lake development programs.	X	-	-	X	-	X	-	-	The Strategic Water Reserves Program uses the habitat, housing and secondary water development success models used in Raging Waters, Descanso Gardens, KOA RV, County RV Parks and the economics of 32 million annual visitors with the worlds largest market of snow skiers
2	Brine to Potable Water & Energy	Assorted Water & Energy Agencies	Use Forward, http://tinyurl.com/rtlsh , or Reverse Osmosis to produce pure water from groundwater or wastewater. Produce biodiesel from algae, http://tinyurl.com/rtlsh , while the algae remove pollutants from the brine reject water.	X	-	-	X	-	-	-	-	A conjunctive use with imported water. Produces biodiesel for transportation fuel. (Note that hydrogen is bogus. Go to November 2. Click on Alec Brooks at http://www.hydrogenhighway.ca.gov/sb76/sb76.htm .)
3	Salton Sea & Owens Lake remediation with algae to biodiesel project	Assorted Water & Energy Agencies	Produce biodiesel from algae, http://tinyurl.com/rtlsh , while the algae remove pollutants from the brine reject water. If necessary use Forward, http://tinyurl.com/rtlsh , or Reverse Osmosis to reduce water salinity or to concentrate salts for burial. See	X	-	-	X	-	-	-	-	Prevents 90 tons per day of dust. Every 100,000 acres can produce 1.5 billion gallons of biodiesel per year. By comparison, the US uses ~ 60 B gallons of diesel and 120 B gallons of gasoline each year.
4	Salton Sea & Owens Lake remediation with algae to biodiesel project	Assorted Water & Energy Agencies	Produce biodiesel from algae, http://tinyurl.com/rtlsh , while the algae remove pollutants from the brine reject water. If necessary use Forward, http://tinyurl.com/rtlsh , or Reverse Osmosis to reduce water salinity or to concentrate salts for burial. See	X	-	-	X	-	-	-	-	Prevents 90 tons per day of dust. Every 100,000 acres can produce 1.5 billion gallons of biodiesel per year. By comparison, the US uses ~ 60 B gallons of diesel and 120 B gallons of gasoline each year.
5	Irrigation credits/subsidies trading	Assorted Water Agencies	Some people agree their property will not be irrigated. Others pay the non-irrigators in order to have water for irrigating. No property too small.	X	-	-	X	-	-	-	-	NA
6	Catch Basin Labels	City of LA	The project labels catch basins throughout the City of LA. Approximately 11,500 in Ballona Creek.	-	-	-	-	-	X	-	-	NA
7	Catch Basin Screens and Inserts	City of LA	This is an ongoing effort by the City of LA that upon completion will have installed 10,000 screens and inserts.	-	-	-	-	-	X	-	-	NA
8	End of line trash capture systems	City of LA	This is an ongoing effort by the City of LA that upon completion will have installed 10 end of line devices.	-	-	-	-	-	X	-	-	NA
9	Full trash capture systems	City of LA	This is an ongoing effort by the City of LA that upon completion will have installed 10 full capture devices.	-	-	-	-	-	X	-	-	NA
10	North/East/Central LA Bicycle Projects	City of LA	Projects connected with new subway system	-	-	-	-	-	X	-	-	NA
11	Speedway BMPs 1&2	City of LA	A variety of BMPs will be implemented in the area to treat trash and oil/grease, and also alleviate flooding.	-	-	-	-	-	X	-	-	NA
12	Avenue F-8 and 60th Street West Drainage Basin	City of Lancaster	Design and construction of an approximately 160 acre drainage basin to intercept flow from west Antelope Valley. The basin will be located at the NW corner of Avenue F-8 and 60th Street West.	-	-	-	-	-	-	-	-	NA
13	Area C Trail	Environmental Now	Trail	-	-	-	-	-	X	-	-	NA
14	Watershed Education for Policy Makers	LA & San Gabriel Rivers Watershed Council	Develop a Los Angeles-County focused watershed education program for elected and appointed officials. The program would use a variety of delivery methods appropriate to busy policy makers to provide information on the relationship between integrated water management for a greater local water supply, improved water quality, open space preservation, and enhancement of recreation opportunities.	X	-	-	-	-	-	-	-	NA
15	Neighborhood Demonstration Project	LA/SG Rivers Watershed Council	Develop a integrated approach to water management by retrofitting a small neighborhood with BMPs.	-	-	-	-	-	X	-	-	NA
16	One Less Car	LACBC	Estimated 300,000,000 miles driven daily in LA. At 22 MPG: Total Gas=136,363,636 gallons; Hydrocarbons=18,502,202 lbs.; Carbon Dioxide = 2,748,000,000 lbs.; Nitrous Oxide = 9,185,022 lbs. (Based on EPA420-F-97-037)	-	-	-	-	-	X	-	-	NA
17	Water Replenishment District	LACSD	USGS study to sample wells at the inlet to San Gabriel Spreading Grounds; and two studies that are re-visitations of the epidemiological survey.	-	0	10000	-	-	-	-	-	NA
18	Los Angeles County Storm Drain Initiativen Tools	LACSD; LADPW	The Storm Drain Initiative (SDI) Tools are a collection of geographical information systems (GIS) applications that will provide significant improvements to existing watershed management practices such as emergency spill response, Best Management Practices, dry-weather diversions and point source identification, TMDL, and permit enforcement, and maintenance and urban watershed management. This proposal follows the successful completion of the SDI, which was a multi-jurisdictional collaborative effort to develop a complete GIS database of the storm water infrastructure within Los Angeles County.	X	-	-	X	-	-	-	-	Improvements in spill response, BMP management, source control, dry-weather diversions, NPDES and TMDL compliance, and maintenance management.
19	Case Studies	LADWP	Develop case studies for onsite reuse of process water; target and promote reuse project funding through Technical Assistance Program	-	-	-	-	-	-	-	-	NA
20	City Facilities Program	LADWP	Target water savings opportunities at all City facilities	-	-	-	-	-	-	-	-	NA
21	Clothes Washer Rebate	LADWP	Continue rebates for higher efficiency washers, marketing program at point of purchase	X	2250	0	-	-	-	-	-	NA
22	Commercial Rebate Program	LADWP	Expansion of existing menu-based rebate program, supplementing additional measures beyond ULF toilets	X	5000	0	-	-	-	-	-	NA
23	In-House Rebate Processing	LADWP	Establish permanent LADWP processing center for water/energy efficiency rebates	-	-	-	-	-	-	-	-	NA
24	Landscape Assessment	LADWP	Recast use of CBOs for landscape assessment, limited interior measures, and leak detection	-	-	-	-	-	-	-	-	NA
25	Minor Water Quality Improvements at LADWP Reservoirs	LADWP	Plan, design, and construct minor water quality improvement facilities for various reservoirs.	-	-	-	-	-	-	-	-	NA
26	Multi-Family Metering - New Construction	LADWP	Service-based incentive (expedited service connections, reduced connection fees)	-	-	-	-	-	-	-	-	NA
27	Native Plants/Synthetic Turf	LADWP	Develop program to promote use of native plants and synthetic turf to reduce the amount of water that is used for landscape irrigation	-	-	-	-	-	-	-	-	NA
28	Non-Residential Metering - New Construction and Retrofit	LADWP	Service-based incentive (expedited service connections, reduced connection fees)	-	-	-	-	-	-	-	-	NA
29	Non-Residential New Construction Program	LADWP	Rebates for highest efficiency toilets, cooling towers, clothes washers, smart irrigation systems, and native plant palettes	-	-	-	-	-	-	-	-	NA
30	Pool Cover Program	LADWP	Rebates for swimming pool covers to reduce the amount of water that is naturally evaporated	-	-	-	-	-	-	-	-	NA
31	Rainwater Catchment Program	LADWP	Rebates for cisterns when captured water is used for irrigation to reduce water demand	-	-	-	-	-	-	-	-	NA
32	Residential New Construction	LADWP	Rebates for highest efficiency toilets, clothes washers, smart irrigation systems, and native plant palettes	-	-	-	-	-	-	-	-	NA
33	Smart Irrigation Controllers	LADWP	Develop program to promote installation of smart irrigation controllers to reduce the amount of water that is used for landscape irrigation	X	0	450	-	-	-	-	-	NA

Regional Projects												
Project ID	Project Title	Project Proponent	Project Description	Water Supply			Water Quality		Open Space			Other Benefits
				Quality	Quantified Minimum (AFY)	Quantified Maximum (AFY)	Quality	Quantified Benefit (MGD)	Quality	Quantified Minimum (Acres)	Quantified Maximum (Acres)	Description
34	Southern California Gas Company Partnership	LADWP	Leverage program offerings with So. Cal. Gas Company for dishwashers, faucet aerators, shower heads, and home water use surveys	-	-	-	-	-	-	-	-	NA
35	Tank & Reservoir Inlet-Outlet Modifications	LADWP	Plan, design and construct new inlet and outlet piping, mixer systems, and/or chemical monitoring and control systems at water storage facilities throughout the distribution system.	-	-	-	-	-	-	-	-	NA
36	Technical Assistance Program	LADWP	Expansion of existing program services to include comprehensive incentive packages to target the wider range of conservation opportunities	-	-	-	-	-	-	-	-	NA
37	ULF Toilet Exchange Program	LADWP	Distribute ULF toilets and dispose of old toilets	X	0	250	-	-	-	-	-	NA
38	Admiralty Way Widening	NA	Incorporation of Cistern/rain barrel, grassy swale and/or retention grading into the Admiralty Way widening project	X	36	72	X	-	-	-	-	NA
39	LACFD Admiralty Way Bioretention Filter System	NA	Installation of Bioretention filter system to capture sheet flow from the parking lot	-	-	-	-	-	-	-	-	NA
40	Low-Flow Storm Drain Diversion Program	NA	NA	-	-	-	-	-	-	-	-	NA
41	Marina Beach Water Quality Improvement Project (Increase Basin D Circulation)	NA	NA	-	-	-	-	-	-	-	-	NA
42	Neighborhood Cisterns	NA	Multifaceted: Collect runoff from residential lots (gravity feed... to cisterns on public land or right of ways. Tiered pricing of water-imported water for green. big lawn cost most; put in native plants and quality for lower cost cistern water—who pays for piping? less or no water in drought years but native plants will survive.	X	1000	0	-	-	-	-	-	NA
43	Venice Blvd Structural BMPs	NA	Use of On-site structural BMPs on potential locations identified in J 1/4 Wet Weather TMDL IP	X	-	-	-	-	-	-	-	NA
44	Infiltration BMPs for SMBBB TMDL Implementation for Jurisdictional Group 5, 6	NA	Permeable Paving, Vegetated Buffer Strips, Infiltration Trenches/Basins, Bioretention Cells, Wet Ponds, Constructed Wetlands and Leach Fields	-	-	-	-	-	-	-	-	NA
45	Regional Habitat & Agriculture Mitigation Bank	Not Available	Habitat and agriculture lands set aside (banked) regionally, for example: thousands of acres of Ventura County agriculture banked by Caltrans for future agricultural lands which would be impacted by Caltrans projects throughout Southern California.	-	-	-	-	-	-	-	-	NA
46	Ballona Watershed Storm Drain Map	Santa Monica Baykeeper	Map of all stormdrains in Ballona Creek Watershed	-	-	-	-	-	X	-	-	NA
47	Ventura-Los Angeles Recycled Water Backbone	This is a Bureau of Reclamation concept from the mid-1990s.	A 50 mgd connection of recycled water systems connecting the the watersheds between the Ventura River and the Tijuana River.	X	-	-	-	-	-	-	-	Can be a large conjunctive use with Colorado River & Northern California to survive droughts and levee failures.
48	Establish a Stormwater Retention Site	Various	Establish a stormwater retention site in the upper watershed, to reduce stormwater flows and promote infiltration.	-	-	-	-	-	X	-	-	NA
49	Parking Lot Retrofit	Various	Retrofit a large parking lot, to remove curbs and install porous pavement.	-	-	-	-	-	X	-	-	NA
50	Public School Site Retrofit	Various	Retrofit public school site, to reduce impervious surfaces, retain, stormwater, plant native vegetation, increase shade (and reduce energy costs).	-	-	-	-	-	X	-	-	NA
51	Retrofit a large site	Various	Retrofit a large site (e.g., college campus, movie studio) to retain stormwater, either above or under ground, and include native vegetation	-	-	-	-	-	X	-	-	NA
52	Retrofit a Street Segment	Various	Retrofit / re-engineer a segment of a street, to replace curbs with grassed swales and install porous pavement.	-	-	-	-	-	X	-	-	NA
53	Retrofit of a Linear Corridor	Various	Retrofit a linear corridor (e.g., median, utility corridor, former rail line) to retain stormwater and plant native vegetation	-	-	-	-	-	X	-	-	NA
54	Strategic Site Improvements	Various	Strategic Site Improvements (e.g., identify a specific site for retrofit that can take advantage of proximity of a park and open channel and accomplish multiple benefits).	-	-	-	-	-	X	-	-	NA
55	Urban Stream(s) Restoration	Various	Restoration of urban streams, including Scatela Creek, and other remnant streams, including Wilshire Country Club, Longwood Drive / 8th Street, Stone Canyon Creek.	-	-	-	-	-	X	-	-	NA
56	Public Park Retrofit	Watershed Cities	Retrofit of public parks to retain stormwater, plant native vegetation, and replace non-native vegetation where appropriate with use.	-	-	-	-	-	X	-	-	NA