

**Greater Los Angeles County Integrated Regional Water Management Plan  
South Bay Steering Committee  
West Basin MWD  
Carson, CA**

**Tuesday, January 13, 2009  
12:00 – 2:00 pm**

**Meeting Notes**

**Present:**

Theresa Wu, WRD  
Changmii Bae, LA County Parks and Recreation  
Ousama Nimri, LACFCD  
Siya Araumi, LACFCD  
Mary Zauner, LACSD  
Tom West, RMC  
Kathleen McGowan, Consultant  
Andy Clark, City of Rolling Hills Estates

Rob Beste, City of Torrance  
Robb Whitaker, WRD  
Rich Nagel, West Basin MWD  
Leighanne Reeser, West Basin MWD  
Persephene St. Charles, RMC  
Wing Tam, City of Los Angeles  
Chris Sellers, LA County Department of Beaches and Harbors (phone)

<b>Agenda Item</b>	<b>Topic/ Issue</b>	<b>Discussion</b>	<b>Action Item/Follow Up</b>
<b>1</b>	Welcome, Introductions	Rich Nagel led the introductions.	
<b>2</b>	Review/Approve December Steering Committee Meeting Notes	Notes were approved with no comments.	
<b>4</b>	IRWMP Regional Acceptance	A handout outlining the draft guidelines for the regional acceptance process was distributed. The Greater LA Region will need to submit application materials and meet the required criteria to be eligible to apply for the next round of IRWMP grants. Decisions on acceptance will be made in April, in advance of Prop 84 grant funding application due dates.	Provide any comments regarding the draft regional acceptance guidelines to George De La O (LACFCD) by 1/20.
<b>5</b>	Project List Review	The group discussed the 2006 project selection process – pointing out that there was a limit of five projects per sub-region, with most submitting three projects. Projects were limited to \$10 million, but given that funding had been cut in the middle of the process, this amount was considered high. The matching requirement also increased through the process.  The group discussed the December 9 <sup>th</sup> workshop and reviewed the	RMC to contact Shelley Luce and Palos Verdes project contact to let them know their projects have been removed from the list for consideration in upcoming grant application.

*The Mission of the Greater Los Angeles County IRWMP is to address the water resources needs of the Region in an integrated and collaborative manner.*

		remaining projects. Notes from the discussion on specific projects are attached in the project table	RMC will also contact City of Hawthorne's DAC projects to discuss status of project, multiple benefits, and readiness to proceed.
6	Sustainable Funding	<p>A sustainable funding business model is being developed to facilitate ongoing participation in the LA IRWMP process. There are few options that are being considered including:</p> <ul style="list-style-type: none"> <li>o Business as usual – set a budget and then when it runs low, ask for more funding from participating agencies/groups</li> <li>o Each sub-region would procure their own consulting services directly if desired</li> <li>o Create a joint powers authority (JPA) and then hire an executive director</li> <li>o Earmark administrative funding as part of a grant award</li> </ul> <p>This model will be discussed at a subsequent Leadership Committee meeting.</p>	
7	Funding Contribution Status	A table was distributed summarizing contributions pledged and paid. Leighanne reported that things are on track. Two contract amendments to the consultants have been completed to continue with consultant meeting support and to update the database framework. A scope for preparing the regional acceptance application is being developed and could be added later.	
8	Future agenda items, Items to report at Leadership Committee meeting, Other Items	No items were discussed.	
	Next Meetings	<p><b>Leadership Committee</b> January 28, 2008, 9:30 am to 12:00 pm LA County DPW</p> <p><b>South Bay Steering Committee</b> February 3, 2009 12:00 pm to 2:00 pm West Basin MWD</p> <p><i>[Note SC meeting has since changed to February 10, 2009 12:00 to 2:00 pm.]</i></p>	

ID #	Title	Agency	Description	DAC	Conserv	Flood	Total Project Cost	Matching Funds	Funding Needed (Min accept)	Environmental Documentation	Benefits	Readiness to Proceed & Start Date
14438 #1	Storm Drain Improvements BMP Hawthorne Boulevard between El Segundo Blvd.	City of Hawthorne	This project will construct drainage improvements along Hawthorne Boulevard between El Segundo Boulevard and Rosecrans Avenue in the City of Hawthorne one area in the City that has frequent and sever flooding due to aging and deficient storm drain system. Implementation of the project elements include the replacement of storm drains, drainage pipes, cross gutters, and installation of filtering devices to improve flood management and enhance the quality of storm drain runoff. Best Management Practices will be implemented, bringing this area into compliance with State and Federal requirements. The City is prepared to proceed with design of this project in January 2009 and will provide 25% local matching funds.	X (adjacent to DAC)	X	X	\$2.5M	25%	\$2M	Preliminary engineering	Prevent flood damage to homes & businesses Groundwater recharge	* Work plan complete * Begin construction 12/09 - 1 year
Notes: 300 acres, 1,150 residents in area RMC will call Hawthorne to determine water quality benefit potential, status and readiness to proceed - as well as if assistance is needed												
14413 #2	Storm Drain Improvements BMP 131st Street, Simms & Chadron Ave.	City of Hawthorne	This project will construct drainage improvements on 131st Street, Simms and Chadron Avenue in the City of Hawthorne one area in the City that has frequent and sever flooding due to aging and deficient storm drain system. Implementation of the project elements include the replacement of storm drains, drainage pipes, cross gutters, and installation of filtering devices to improve flood management and enhance the quality of storm drain runoff. Best Management Practices will be implemented, bringing this area into compliance with State and Federal requirements. The City is prepared to proceed with design of this project in January 2009 and will provide 15% local matching funds.	X (in DAC)	X	X	\$1.15M	15%	\$1M	* PSR Completed * Enviro Doc	* Flood Control * WQ BMPs * Catch Basin * Stormwater Drains	* Workplan complete * PE process in Jan * Begin construction Jan. 2009 - 6 months
Notes: Within Dominguez Channel watershed, 100 acre drainage												
14432 #3	Storm Drain Improvements BMP Prairie Avenue & El Segundo Boulevard	City of Hawthorne	This project will construct drainage improvements on Prairie Avenue and El Segundo Boulevard in the City of Hawthorne one area in the City that has frequent and sever flooding due to aging and deficient storm drain system. Implementation of the project elements include the replacement of storm drains, drainage pipes, cross gutters, and installation of filtering devices to improve flood management and enhance the quality of storm drain runoff. Best Management Practices will be implemented, bringing this area into compliance with State and Federal requirements. The City is prepared to proceed with design of this project in January 2009 and will provide 20% local matching funds.	X (adjacent to DAC)	X	X	\$1.8M	20%	\$1.5M	* PSR complete * Categorical exemption expected	* Improve flooding * WQ BMPs	* PreDesign in Jan * Workplan complete * Begin construction Jan-09 - 7 months
Notes: No existing catch basins in area . All new construction. 200 acres.												
14315	Upper Pier Avenue LID Retrofit	City of Hermosa Beach	The Upper Pier Avenue LID Retrofit is part of streetscape improvement plan which arose from a community consensus process. The project provides the opportunity to retrofit for treatment of stormwater/urban runoff from streets and existing development in the downtown commercial corridor. Modular treatment/infiltration units along the 1800 feet of Upper Pier Avenue from Valley Drive to Hermosa Avenue will treat runoff from a 36-acre drainage area. Pretreatment for trash and gross solids will be followed by biofiltration and infiltration. The project will include significant drainage improvements through construction of a new storm drain to reduce flooding, while at the same time providing treatment and infiltration of dry weather and wet-weather baseline flows to reduce pollutant loading at the beach. The streetscape improvement also provides the opportunity to bring reclaimed water service for landscape irrigation on Pier Avenue, Hermosa Avenue, Noble Park, and the beach public restrooms.		X	X	\$4.5M	\$1.3M \$2M Prop C	\$1.2M	MND - in clearinghouse today	* Stormdrain benefits * Treatment BMP * Dry and wet flow reduction	*October - 30% complete * Complete design in Jan-09
Notes: Matching funds from SRF mitigation fund, economic package, Prop A selling (know by April). 4.7 AF 3 AC recreational area												
356 #1	Machado Lake Ecosystem Rehabilitation Project	City of Los Angeles, Department of Public Works	Machado Lake will be enhanced through removal of contaminated sediments, installation of an aeration system, installation of an outlet device and spillway, trash capture devices in storm drain outlets, and creation of low flow channel (through the marsh to separate low lake flow from storm water flow). Habitat improvements in the marsh zones will be achieved by removal of non-native invasive plants, planting native species and debris removal. The park will be enhanced through a series of park improvements that will also include installation of pervious paving material in parking lot, installation of bioswales along portions of parking lots and facilities, and installation of a "smart" irrigation system.	X	X		\$100M	70-80% (Prop O)	\$20M-30M \$5M Minimum	Concurrently with design 18 months out	* Wetlands * Full capture or catch basin screens	* Pre-design phase * Cosntruction 2011-2014
Notes: Park enhancements, use stormwater runoff. This project is within a DAC												

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7105 #2	Exposition Green Corridor	City of Los Angeles Department of Public Works (partnering with Light Rail for Cheviot)	Reconfiguring 20 acres of rail right of way to redirect perennial Stone Canyon Creek and storm drains into swale, detention basins, treatment wetlands, and micro-pools for cleaning and conserving dry weather and storm flow on unused railway right of way consistent with potential transit and parkland construction.		X		\$7.9M		\$6.3M	Draft EIR by MTA will need to begin	* Groundwater infiltration * 8 CFS of stormwater reuse for stream	* Construction to start Spring 2011
Notes: To be constructed concurrently with rail line construction. Within Ballona Creek.												
1605 #3	Penmar Water Quality Improvement and Runoff Reuse Project	City of Los Angeles, Department of Public Works	The Penmar Water Quality Improvement and Runoff Reuse Project includes installation of hydrodynamic separators, underground detention tank, chlorination facility, pump station and overflow systems. Off-site surface runoff will be diverted to project site. The diverted runoff shall be treated/disinfected. The disinfected effluent will be pumped through a smart irrigation system to decrease the current landscaping irrigation demand.		X		\$24M	Matching with Prop O	\$10M	Will be conducted during design phase		* In Pre-design * Construction start late 2010
344 #1	Greenbelt Low-flow Infiltration Project	City of Manhattan Beach	The project will utilize the linear greenbelt parkland which runs through the City of Manhattan Beach (City) to intercept and infiltrate dry weather and wet weather low flows from existing storm drains that intersect the parkway. The project will preserve the existing recreational benefits of the linear parkland as a jogging/walking path. The low flows will be screened for trash and gross solids removal and will then be directed by gravity flow to a subsurface infiltration system which will also provide limited storage of storm flows for subsequent percolation into the sandy soils below the greenbelt. Storm flows which exceed the infiltration or storage capacity of the percolation lines will return by gravity flow to the storm drain system for discharge at the storm drain outfall. The Greenbelt Low Flow Infiltration system will effectively divert year-round dry-weather and wet-weather low flows from the storm drain system.			X	\$600,000	\$100,000 hard dollars and in-kind	\$500,000	Cat-Ex anticipated	* WQ benefits * Infiltration of stormflows * Flood protection	* Flow monitoring program * 9 months to construction
Notes:												
2006	Model Equestrian Center	City of Rolling Hills Estates	Site design will reduce pollutant loads by retaining stormwater on site and directing drainage from upgradient areas away from contact areas where horses are housed, groomed, or exercised. Water utilized for washing down horses is to be diverted to the sanitary sewer, while all other water utilized for dust control and irrigation will be applied in a manner to prevent dry weather runoff. Design objectives/elements will include: erosion and sediment control, structural controls for integrated pest management (IPM), landscape & exterior design to reduce heat islands, water conservation including cisterns to capture and reuse roof runoff for landscape irrigation and/or dust control, equine-safe drought-tolerant landscaping and native plant buffers, trail connectivity, use of local/regional materials, and construction waste minimization. Interpretive signage placed throughout the facility will identify environmental design elements and a central display board with tip cards will provide more detailed information.		X (SEC)	X	\$1.5M	\$1M (Prop A from 1996)	\$475K	* Jan IS will begin * No EIR * Geotech completed	* WQ improvements * Education * Reduce dry and wet weather flow	* Bid docs can go out now * Construction in 2009
Notes: Cisterns for drip irrigation & wet weather												
301 #1	16th Street Watershed Runoff Use Demonstration Project	City of Santa Monica	2 or 3 stage treatment, storage, infiltration and/or reuse project for all dry weather runoff, and up to 80% wet weather. Primary stage to remove trash, debris, and sediments. Secondary stage to filter out soluble pollutants, like heavy metals and organics, oil and grease. Final stage for storage and reuse, overflow to infiltration zone.		X	X	\$5M	15%	\$4.25M	Cat-ex (will take 1 month)	* Remove 80% wet weather and dry weather flows * WQ, WS	Construction begin in 2010 (to begin after Penmar is completed in 2010)
Notes: Coordinated with LA Penmar project. 200 acres.												

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1623 #2	Memorial & Ozone Parks Runoff Treatment and (Re)Use Project - 1	City of Santa Monica	These projects (or one park depending upon grant award) will involve 2-3 treatment systems in series, harvesting stormwater and dry weather runoff from the main storm drain and surface gutters passing by the parks. Runoff will be diverted to a primary screening/separation system to remove floatables and larger materials (trash, debris, sediments), then a secondary system to remove soluble pollutants and then a tertiary storage/reuse vault. The stored runoff will be used for landscape irrigation and/or infiltration into the ground (overflow, excess storage). The systems will be underground.		X	X	\$2M	15%	\$1.7M	Cat-ex	* Remove 80% wet weather and all dry weather flows *WQ, WS	Construction to begin 2010
Notes: 200 AC along Lincoln												
382 #3	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 to remove a variety of pollutants of concern. Cored or augered infiltration zones will be installed to capture runoff for infiltration. Runoff fills the zones and infiltrates over time. Once filled, the runoff bypasses and continues as it normally does along the storm drain system. The zones will be filled with rock or plastic matrix to store runoff for infiltration. Trash/debris will be removed at the top of the zone and carried away by runoff flows or by city staff.			X	\$1M	15%	\$850K	Cat-ex	Six locations for WQ	Construction will begin late 2010
Notes:												
320 #1	Stormwater Basin Enhancement Program	City of Torrance	This project would convert the Amie, Henrietta and Entradero Stormwater Basin into stormwater treatment systems using trash screens, wetlands treatment and infiltration basins as BMPs for Santa Monica Bay Bacteria TMDL compliance and provide 26 acres of open space for wildlife habitat. These BMPs are also effective for addressing sediment, nutrients, trash, metals, oil, grease, organics and oxygen demand. SCADA controlled valves at the Amie Basin Pump Station will divert dry weather run off to the Dominguez Channel and reduce flows at the County's low flow diversion pump station for Herondo Drain. Infiltration basins at each site also contribute to groundwater recharge. The Pre-design, cost estimates and CEQA process are complete. The City owns the properties so with funding this project can go through final design and to construction with in a year. Recycled water proposed at Entradero Basin would reduce potable water consumption by 25 afy.		X	X	\$4.5M	25% from SMBRC or General Funds	\$3.4M Less is acceptable	Done	* Helps to meet bacteria and trash TMDL * 26 AC open space for habitat and education * Reduces sediment, nutrients * WS with GWR	* Pre-design complete * Final design under development *10 months until ready to construct * Have letters of support
Notes: The cost for end of pipe treatment is \$130M, making this option more cost effective. 25 AFY of Entradero potable offset with RW. 1,400 acres												
1484 #1	Oxford Retention Basin Flood Relief and Multiuse Enhancement Project	Marina del Rey Watershed Responsible Agencies (LA County DPW)	This project includes the excavation of sediments in Oxford Retention Basin, the construction of a connecting relief drain, and the installation of a technology based on the principle of water rejuvenation to improve the quality of the water discharged into Basin E. Other multi-use features will also be included as part of this project such as upland habitat landscape improvements, ornamental fencing, jogging/walking paths, interpretive signs and observation decks. Operational and maintenance features will also be improved.			X	\$13M	\$2M	\$7M-\$11M pending other sources	* Study in 2009 * Will need MND or EIR	* Multiple benefits * 2 acre flood * WQ - Marina Basins	* Final design late 2009 * Construction April 2011
Notes: BMP treatment in Basin												

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341	Goldsworthy Desalter Expansion	Water Replenishment District of Southern California	This project will remediate an existing saline plume located in the West Coast Groundwater Basin through advanced treatment consisting of reverse osmosis. The existing Goldsworthy Desalter products approximately 3,000 acre-feet per year and is provided to the City of Torrance.		X		\$18M	\$13.5M funded by project revenue	\$4.5M	Phase 1 complete MND expansion	* Water supply * Saline WQ improvements * New water source and reclaim GW storage	Construction to begin in 2010
Notes: Potable offset- 3,000 afy												
372 #1	Water Recycling Facility-Phase V Expansion	West Basin Municipal Water District (Water Replenishment District)	This project is needed to offset imported water and groundwater supplies with the use of recycled water. Increased use of recycled water is needed in this area because of the demands put on imported water and groundwater supplies; and therefore water reliability is the goal of West Basin MWD. The project proposes to provide 100% recycled water for injection into the West Coast Barrier. West Basin MWD currently injects 75% of recycled water and 25% of imported water into the Barrier. This expansion will provide a total of 17,500 AFY of potable water supply. This project reduces the amount of imported water injected into the barrier by 25%, which is between 2.5 and 5.0 MGD. In addition, Chevron and El Segundo Power require recycled water for their processes in the amount of 0.43mgd and 0.32mgd, respectively. Two of the three sites currently receive recycled water. Chevron Refinery receives 9.3 mgd and the West Coast Basin Barrier receives 15 mgd.		X		\$43M	\$15M customers \$21M agency Bond financing	\$7M	MND is done	* 100% RW effluent * 4,500 AFY for industrial use * WQ benefit * Seawater barrier - brine line	* PDR done * Design to begin 2009 * Construction to begin Aug. 2009 * Complete by 2011
13716 #2	Schools & Parks Retrofit in the Disadvantaged Communities	West Basin Municipal Water District (Los Angeles School Districts)	West Basin has already been working with the DAC areas (school districts and park offices) to quantify the existing water using devices for both the indoors and outdoors: for the schools, the indoor devices that are in the restrooms, cafeterias and other facilities and the outdoor devices used for the landscaped areas; and for the parks, the indoor devices for the restroom facilities and building facilities, and outdoor devices for the landscaped areas. There are a total of 10 parks, 48 public and 34 private schools within the project's area. This project is \$1,262,030 and includes 431 high-efficiency toilets, 140 waterless urinals, 489 faucet aerators, 50 waterbrooms, 5 connectionless steamers, 41 pre-rinse spray heads, 100 flow restrictors, 12 showerheads, 40 conductivity controllers, 41 controllers, 289 irrigation nozzles, water audits/budgets for each site, and California Friendly Landscape Classes for the maintenance personnel.	X	X		\$1.2M	\$420K	\$840K	Categorically exempt	Conservation	* Already developed and ready to go * Awaiting funds
Notes: Would provide indoor and outdoor conservation devices, including installation services.												
366	Peck Park Canyon Project	City of Los Angeles, Department of Public Works	The project proposes a combination of Best Management Practices (BMPs) to enhance the stream and surrounding canyon as a result of erosion and sediment control measures, flood control, and water quality improvements through the infiltration of stormwater and associated pollutants. The BMPs include vegetated bio-swales/infiltration strips, catch basins, armoring and revegetation for bank stabilization, and creation of a step pool channel configuration. This network of BMPs will reduce downstream flow velocity and slope erosion, control stormwater runoff, filter and degrade stormwater pollutants, and capture trash and debris. The improvements will improve water quality in the Canyon's stream and ultimately the Los Angeles Harbor and San Pedro Bay (impaired water bodies) into which the stream flows.	X		X						
Notes: Proponent did not attend.												
1603	Westminster Dog Park Stormwater Best Management Practices	City of Los Angeles, Department of Public Works	The Westminster Park (Dog Park) project includes installation of modular constructed wetland Best Management Practices (BMPs) within this project site. By installing these BMPs, on-site runoff, which is highly contaminated by dog feces, will be captured and treated prior to discharging into the storm drain system.		X							
Notes: Proponent did not attend.												
199	Gardena Willows Wetlands - Education	Friends of Gardena Willows	Interpretation and education of Gardena Willows Wetlands. Contract for development and installation of two interpretive panels and related brochures.									
Notes: Proponent did not attend.												
200	Gardena Willows Wetlands - Erosion	Friends of Gardena Willows	Correct erosion problems and improve maintenance of existing paths.									



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	Wetlands - Erosion	Willows	Construct the remaining paths within the preserve making all paths handicap accessible.									Notes: Proponent did not attend.
195	Gardena Willows Wetlands - Weeds	Friends of Gardena Willows	Control of basic and exotic weeds and restoration of the wetlands preserve. Control of non-native plants. We will use mechanical modes of removal, primarily by manual means.									Notes: Proponent did not attend.
374	Restoration and Education at the Gardena Willows Wetland Preserve	Friends of Gardena Willows	Further restoration and management of the Preserve and development of a Nature Center and educational programs									Notes: Proponent did not attend.
345	Groundwater Recharge Sump for Carson City Hall	City of Carson	Construction 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.									Removed from consideration. Project not ready to go.
362	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 Wilimington Drain. (The marsh construction program is fully funded but no funds are currently provided for monitoring and assessment.)									Proponent would like to remove from database.
312	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. The project is adjacent to two local golf courses and a planned mixed use development known as Carson Marketplace.			X						Removed from consideration. Project ready to go.
1772	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.									Notes: Funded through Prop 50 Clean Beaches Initiative (\$1.72M)
7582	Catch Basin Cover Phase III*	City of Los Angeles, Department of Public Work	This project proposes the installation of CB opening screen covers in medium and low trash generation areas of the City. As trash is the primary target pollutant and will be either eliminated or significantly reduced by the installation of the CB covers. In addition, these CB covers will also reduce organic debris and sediment loading to the storm drain system. The CB opening screen covers are coarse screens that are installed in the CB opening and prevent trash from entering the City storm drain system system. Each CB opening screen cover has a self-opening device activated by a predetermined street gutter flow to disengage its locking mechanis. These covers are designed to remian closed during both dry weather as well as small storms (									Removed from consideration.
3786	Imperial Highway Sunken	City of Los Angeles,	The Imperial HWY stormwater BMP project will retrofit approximately a 1.3		X							

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	Median	Department of Public Works	miles stretch of Imperial Highway, by installing a sunken median Infiltration/Vegetated Buffer Strip Stormwater Best Management Practice. By retrofitting Imperial Highway to divert the surface runoff into the median, runoff will be allowed to infiltrate and pass through a median prior to discharging into storm drain system. 91 infiltration trenches are needed to provide the required retaining volume to capture and percolate 0.75 inches of a rainfall. A vegetated buffer strip per three trenches is proposed to provide pretreatment and protect the trenches from excessive sediments build up.									
4302	Rosecrans Recreation Center Stormwater Enhancement	City of Los Angeles, Department of Public Works	Stormwater runoff from a site has the potential to contribute trash, oil and grease, suspended solids, metals, gasoline and pathogens to the storm water conveyance system. The Rosecrans Recreation Center Stormwater Enhancements project goal is to minimize, to the maximum extent practicable, the introduction of pollutants of concern to site runoff entering the storm water conveyance system. Pollutants of concern conveyed through runoff may result in significant impacts in the watershed. Stormwater enhancements include a "smart" irrigation system, interlocking porous pavers in an existing parking lot and a new parking lot bioswales, vegetated retention basins, decomposed granite pathways, and a synthetic soccer field. The site will also be graded and landscaped to provide better drainage in the vicinity of the proposed sports fields and at the southern end of the park to direct flows to the treatment bioswales and retention basins. In addition, two new baseball fields will be furnished at the location			X						
1617	TEMESCAL CANYON RECREATION CENTER STORMWATER BEST MANAGEMENT PRACTICES	City of Los Angeles, Department of Public Works	The BMPs proposed for the Temescal Canyon Recreation Center Stormwater Best Management Practices Project includes: 1-Diversion of off-site stormwater from existing stormdrain system to the project site. 2-Pretreatment of diverted stormwater through hydrodynamic separators. 3-Retention of pretreated stormwater in one underground detention tank. 4-Disinfection of the stormwater prior to irrigation. 5-Beneficial reuse of the treated stormwater through landscape irrigation and potentially firefighting through out the year.									
2117	Westchester-LAX Stormwater Best Management Practices	City of Los Angeles, Department of Public Works	The BMPs proposed for the Westchester-LAX Stormwater Best Management Practices Project includes: Diversion of off-site stormwater from existing stormdrain system to the project site, Pretreatment of diverted stormwater through hydrodynamic separators, Retention of pretreated stormwater in one underground detention tanks, Possible infiltration/re-use of the treated stormwater, Return of excess treated stormwater to the LFD during dry-weather conditions, which will then be diverted to the Hyperion Treatment Plant for further treatment.									
10203	Manhattan Strand Low Flow Infiltration Trench	City of Manhattan Beach	Dry and wet weather low flow runoff from 16 storm drains along a 1.5 mile stretch of beach including the commercial areas 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 diversion of low flows into the engineered trench while allowing higher flows to bypass the trench and flow directly to the existing ocean outfalls.			X						
368	Peninsula Village Regional Stormwater Mitigation Program	City of Rolling Hills Estates	The project proposes a combination of Best Management Practices (BMPs) to enhance the stream and surrounding canyon as a result of erosion and sediment control measures, flood control, and water quality improvements through the infiltration of stormwater and associated pollutants. The BMPs include vegetated bio-swales/infiltration strips, catch basins, armoring and revegetation for bank stabilization, and creation of a step pool channel configuration. This network of BMPs will reduce downstream flow velocity and slope erosion, control stormwater runoff, filter and degrade stormwater pollutants, and capture trash and debris. The improvements will improve water quality in the Canyon's stream and ultimately the Los Angeles Harbor and San Pedro Bay (impaired water bodies) into which the stream flows.		X	X						



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318	Conversion of 237th Street Sump Trib. to Machado Lakes for BMPs	City of Torrance	This project would convert the 237th St. Sump (4.5 acre-feet) into a retention/infiltration basin BMP for trash and nutrient TMDL compliance and provide open spaces for wildlife habitat. This project would install diversion structures that would divert the first 4.5 acre-feet of stormwater from a 71 acre tributary area away from the system tributary to Machado Lake (Wilmington Drain) to be retained and infiltrated in this basin. Trash screens would be installed at the basin outlet as a subregional BMP for easier trash collection. During the dry season the basin would remain an open space for wild life and retain urban run-off and nutrients form 71 acres. By diverting stormwater back into this basin, the City and County storm drain systems would have more capacity during rain events. This project would also increase groundwater recharge.			X						
Removed from consideration. Conceptual stage.												
319	Conversion of Walnut Ave. Sumps Tributary to Machado Lake for BMPs	City of Torrance	This proposed project would convert the Walnut Ave. Sumps back into a retention/infiltration basin BMP to address trash TMDL and pending nutrient TMDL compliance and provide open spaces for wildlife habitat. Flows that previously went to these sumps are now tributary to the Machado Lake. A diversion structure and piping would be constructed, using abandoned inlet pipes, to divert flows back into the basin until the basin was full up to the existing storm drain elevation. Trash screens would be installed at two inlets into the basin to collect trash. This project would maximize the drainage area that could be tributary to the retention basin and urban runoff would restore the area for wildlife use during dry weather. By diverting storm water into the basin, this project would increase capacity of the County storm drain systems downstream of the basin, SD 1040 & SD-1031. Infiltrating storm water also increases ground water recharge.			X						
Removed from consideration. Conceptual stage.												
398	Yukon Well Field Development	City of Torrance	The project will construct four wells to reduce dependence on imported MWD water. The project will include land acquisition, well, treatment, and distribution construction.		X							
Removed from consideration. Conceptual stage.												
11488	Santa Monica Canyon Channel, LFD No. 2, Rubber Dam	Los Angeles County Department of Public Works	The Santa Monica Canyon Channel, Low Flow Diversion No. 2 Project consists of the construction of a 6' high by 40' wide air-inflatable rubber dam in the concrete channel to capture and prevent urban runoff from discharging into Will Rogers State Beach. A control building will be required to house the rubber dam's air compressor and control panel. The runoff stored behind the rubber dam will be diverted into the diversion's intake system, which includes a trash separator, wet well, and pump. The diverted flows will be pumped into the City of Los Angeles' Coastal Interceptor Sewer for treatment at their Hyperion Treatment Plant.			X						
Removed from consideration.												
331	Dominguez Channel Greenway	Los Angeles County Flood Control District	Development of a native landscaped greenway and bikeway/pedestrian trail along the Dominguez Channel. The project will include the following access/maintenance road improvements for the new/improved bikeway; AC repair and replacement, slurry seal, American Disability Act (ADA) access ramps and bikeway/pedestrian signage and striping. Lanscaping improvements include landscaping using native and drought-tolerant plants, irrigation, as-needed fencing repair/replacment. Elucational/interpretive signage will also be included along the bikeway/pedestrian trail. A study is also recommended to consider additional pedestrian corsswalks with street lamp lighting for added safety.									
Removed from consideration.												
354	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.									
Removed from consideration.												
394	West Coast Basin Seawater Barrier Telemetry System	Los Angeles County Flood Control District	This project involves the installation of equipment to remotely monitor injection and observation wells to improve the overall effectiveness and efficiency in the operation of the West Coast Basin Seawater Barrier.		X							
Removed from consideration.												
328	DBH Parking Lot 5	Marina del Rey	Installation of Bioretention filter system to capture sheet flow from the parking									

ID #	Title	Agency	Description	DAC	Conserv	Flood	Total Project Cost	Matching Funds	Funding Needed (Min accept)	Environmental Documentation	Benefits	Readiness to Proceed & Start Date
	Bioretention	Watershed Responsible Agencies	lot. This parking lot is adjacent to Basin F. Due to the high groundwater table in the area, appropriate structural BMPs are very limited. Infiltration BMPs such as porous pavement are not feasible because the soil depth to groundwater is insufficient to allow proper filtration. Typical pollutants such as oil and grease from the parking lot would infiltrate into the groundwater and gradually seep out to Basin F.	Removed from consideration.								
329	DBH Parking Lot 7 Bioretention	Marina del Rey Watershed Responsible Agencies	Installation of bioretention filter system to capture sheet flow from the parking lot. Runoff from this parking lot discharges to Basin E.	Removed from consideration.								
313	Carson Regional Water Recycling Project	West Basin Municipal Water District	The Carson Regional Water Recycling Expansion Project includes the expansion of the existing recycled water treatment facility and the construction of several laterals. This is a new demand on the system and will require expansion of treatment process capacity and conveyance to include; lateral pipelines, pump stations, treatment units, storage tanks, and waste management facilities. The BP Refinery requires single-pass reverse osmosis treatment units. BP Refinery is estimating a need of 7,200 acre-feet per year (AFY), WRD is estimating a need of 2,000 AFY for the Dominguez Gap Barrier. The project will be further expanded to serve customers within the City of Los Angeles' jurisdiction for the refineries in the port area. The City will need recycled water to satisfy a use of 15,000 AFY. The City is in the preliminary design stage.		X							
Removed from consideration.												