

## IRWMP Leadership Committee

Greater Los Angeles Integrated Regional Water Management Plan  
 January 28, 2009 9:30 a.m. to 11:30 a.m.  
 Los Angeles County Flood Control District  
 12<sup>th</sup> Floor Executive Conference Room

**Present:**

Art Aguilar, Central Basin  
 Siya Araumi, LACFCD  
 Joe Bellomo, Cities of Agoura Hills and Westlake Village  
 Rob Beste, City of Torrance  
 John Biggs, Brown and Caldwell  
 Hector Bordas, LACFCD  
 Barbara Cameron, City of Malibu  
 Donna Chen, City of LA, WPD  
 Kathi Delegal, LA County DPW  
 George De La O, LACFCD  
 Jan Dougall, Las Virgines MWD

Gail Farber, LACFCD, Chair  
 Norma Garcia, LA Co. Parks & Rec.  
 Mark Horne, PBS&J  
 Kenneth Hu, LA County DPW  
 Grace Kast, San Gabriel Basin WQA  
 Burt Kumagawa, LA Co. CEO  
 Wendy La, Main San Gabriel Basin Watermaster  
 Shelley Luce, SMBRC  
 Rich Nagel, West Basin MWD  
 Andy Niknafs, City of LA  
 Randal Orton, Las Virgenes MWD

Melih Ozbilgin, Brown and Caldwell  
 Rochelle Paras, LACFCD  
 Mark Pestrella, LACFCD  
 Leighanne Reeser, West Basin MWD  
 Bertha Ruiz-Hoffman, LA Co. Parks & Rec.  
 Nancy Steele, LASGRWC  
 Carol Williams, Main San Gabriel Basin Watermaster  
 Theresa Wu, Water Replenishment District  
 Tony Zampielo, Raymond Basin  
 Mary Zauner, LACSD

Topic/Issue	Discussion	Action/Follow up
<b>1. Welcome, Introductions and Purpose</b>	Mark Pestrella opened the meeting at 9:38 a.m. with introductions. Gail Farber was introduced as the new Chair of the Leadership Committee. She spoke on her role as the Director of Public Works and the importance of the IRWM Process.	<ul style="list-style-type: none"> <li>• No Action</li> </ul>
<b>2. Approval Meeting Summary from November 26, 2008</b>	Minutes were distributed to the Leadership Committee for review and comment. Minutes were approved unanimously.	<ul style="list-style-type: none"> <li>• Minutes approved</li> </ul>
<b>3. Public Comment Period</b>	No Comments	<ul style="list-style-type: none"> <li>• No Action</li> </ul>
<b>4. IRWM Program News</b> <ol style="list-style-type: none"> <li>a. Region Acceptance Process</li> <li>b. Proposition 50, Round 1, \$25 million Grant Contract</li> <li>c. Grant Program Status – Suspension of Funds</li> </ol>	<b>Region Acceptance Process</b> George De La O of the Flood Control District (FCD) briefed the Leadership Committee on the Region Acceptance Process (RAP) and covered the following points: <ul style="list-style-type: none"> <li>• California Department of Water Resources (DWR) is requiring all regions to go through the process</li> <li>• RAP will look at a region's boundaries, stakeholders, governance structure, and water issues.</li> <li>• Draft RAP Guidelines were released to the public on December 22, 2008</li> </ul>	<ul style="list-style-type: none"> <li>• Motion passed unanimously giving FCD delegated authority to negotiate scope and budget for RAP Support.</li> </ul>

	<ul style="list-style-type: none"> <li>• Comments on the Draft Guidelines were compiled by the FCD, sent to the Leadership Committee for review and sent to DWR on January 27, 2009. <ul style="list-style-type: none"> <li>◦ Copy of comments included in the Leadership Committee Meeting packet.</li> </ul> </li> <li>• FCD and members of the Consultant Team attended the DWR Workshop on RAP. DWR provided information on the process and reasons why to go through the process.</li> <li>• The interview process is anticipated to follow the application and will be in Sacramento in front of a panel of an unknown number of people. There will need to be future discussions at the Leadership Committee level to discuss how many people and who should go to the interview to represent the Region.</li> <li>• The anticipated schedule is as follows: <ul style="list-style-type: none"> <li>◦ Application due 30 days after final guidelines released (expected to be due in April)</li> <li>◦ 8 day notice for interviews</li> <li>◦ 5 day notice of additional questions for interview</li> </ul> </li> <li>• FCD requested an estimate from the consultant to develop the RAP Application which was approximately \$29,000</li> </ul> <p>Motion was made and passed unanimously to give FCD delegated authority to negotiate a scope of work and budget not to exceed \$30,000 for the RAP Application Support.</p> <p><b>Proposition 50</b> Tanya Mead is the new contact person for DWR on Proposition 50. Quarterly Reports on Proposition 50 projects are due this week.</p> <p><b>Suspension of Grant Funds</b> Discussion occurred on the suspension of grant funds and covered the following points:</p> <ul style="list-style-type: none"> <li>• Proponents can still submit invoices, but payment will not be made until the suspension is over. <ul style="list-style-type: none"> <li>◦ DWR has not yet approved the web-based invoicing system</li> <li>◦ DWR will get invoices ready for payment</li> <li>◦ Request was made to ignore the electronic submittal and use paper invoices instead, the FCD will follow up with project proponents.</li> </ul> </li> <li>• Letter from DWR was provided in the Leadership Committee handouts and refers to the halting of bond funding for projects not on the exemption list. There was a request to seek clarification on why there were not any Los</li> </ul>	
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	<p>Angeles Projects on the exemption list.</p> <ul style="list-style-type: none"> <li>Request was made to compile any issues on grant funds.</li> </ul> <p><b>Proposition 84 &amp; 1E</b>  Discussion occurred at the Roundtable of Regions Meeting that DWR might think of combining implementation and planning into one round of grant funding. There was also some discussion of postponing some of the funding rounds.</p>	
<p><b>5. Letter to Governor Regarding Suspension of Grant Funds</b></p>	<p>Motion made to draft letter to the Governor on issues with suspension of grant funds. Request made to send the letter to other elected officials (Treasurer, Controller, and State Representatives) and to include a list of IRWMP and non-IRWMP projects affected by the suspension of grant funds. The motion passed with 3 abstentions.</p> <p>Nancy Steele volunteered to work with George De La O to draft the letter.</p>	<ul style="list-style-type: none"> <li>Motion made and passed to draft letter regarding the suspension of grant funds.</li> </ul>
<p><b>6. Steering Committee Chair Reports:</b></p> <ol style="list-style-type: none"> <li>Disadvantaged Community Outreach</li> <li>Planning Needs / Project Prioritization / Workshop</li> </ol>	<p><b>Lower San Gabriel and Los Angeles River Steering Committee</b>  The Steering Committee met for a combined meeting and workshop in January and covered the following topics:</p> <ul style="list-style-type: none"> <li>Presentations given by project proponents</li> <li>Discussion between presenters to put projects into one larger Subregional Project to make them more compelling</li> <li>Working with Gateway Cities to bring them back into the Subregion and having discussions on how best to balance their input with a sense of fairness for all participants.</li> </ul> <p><b>North Santa Monica Bay Steering Committee</b>  The Steering Committee met for a meeting in January and covered the following topics:</p> <ul style="list-style-type: none"> <li>Worked on cleaning up project list and adding additional information on projects to the project database</li> <li>Encouraging increased stakeholder participation</li> <li>Looking for projects that meet the IRWMP Goals, but don't need grant funding to move ahead.</li> <li>Appointed Barbara Cameron as Vice-Chair</li> <li>Appointed representatives for the Ad Hoc Committees: <ul style="list-style-type: none"> <li>Water Conservation – Randall Orton</li> <li>IRWMP Projects – Barbara Cameron</li> <li>DAC Projects – No DACs in Subregion</li> </ul> </li> </ul> <p><b>South Bay Steering Committee</b>  The Steering Committee met for a meeting in January and covered the following topics:</p>	<ul style="list-style-type: none"> <li>No Action</li> </ul>

	<ul style="list-style-type: none"> <li>• Reviewed and discussed projects, focusing especially on readiness to proceed</li> <li>• Developed suggestion for criteria to use as guidance to Subregions in project selection: <ul style="list-style-type: none"> <li>○ Performance vs. Plan Goals</li> <li>○ Cost / Benefit Analysis</li> <li>○ Limit on number of projects to submit</li> <li>○ Funding request limit</li> <li>○ Minimum grant request amount</li> <li>○ Prioritization framework</li> <li>○ Minimum funding needed</li> <li>○ Regional Projects</li> </ul> </li> <li>• Need discussion on sustainable funding framework to develop a vision beyond one year.</li> </ul> <p><b>Upper Los Angeles River Steering Committee</b>  The Steering Committee met for a meeting in January and covered the following topics:</p> <ul style="list-style-type: none"> <li>• Reviewed and discussed project prioritization as well as subregional and regional projects.</li> <li>• Focused on the top 48 projects in the subregion and asked proponents in the top 48 not on the Steering Committee to come to the next meeting and present on their projects.</li> <li>• Moving forward on two DAC Projects at Hansen Dam and the Arroyo Seco Confluence</li> <li>• Felt there needed to be a discussion on project selection criteria at LC level.</li> </ul> <p><b>Upper San Gabriel and Rio Hondo Rivers Steering Committee</b>  The Steering Committee met for a meeting in January and covered the following topics:</p> <ul style="list-style-type: none"> <li>• Reviewed DAC projects in the Subregion</li> <li>• Conducted a review of the project prioritization</li> <li>• Working on scheduling project presentations and looked at weighting of the scoring criteria to better meet the goals of the plan</li> <li>• Felt there was a need to have a discussion at LC level regarding the funding split in the Region and a set aside for Regional Projects</li> <li>• Appointed Wendy La as an alternate for Carol Williams</li> <li>• Appointed Wendy La as ad hoc committee representative for water conservation</li> </ul>	
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	<ul style="list-style-type: none"> <li>• Suggestion was made to divide up Prop 84 funds equally between all five sub-regions</li> </ul>	
<b>7. Project Selection Criteria and Funding</b>	<p>Discussion occurred on the development of Project Selection Criteria and covered the following points:</p> <ul style="list-style-type: none"> <li>• Develop options for project selection criteria and distribute to Steering Committees for review then discussion at the Leadership Committee.</li> <li>• It is important for project proponents to know what projects will rise to the top as well as what aspects will help with prioritization.</li> <li>• Noted that there are other grant programs available to fund projects. To be eligible for these funds, the requirement is for the projects to be on the IRWMP Project lists.</li> <li>• Need to address co-funding requirements, specifically in light of small communities that will be less likely to have matching funds and need more money.</li> <li>• Previously DWR required a 10% match in funds.</li> <li>• DWR Guidelines should not be prescriptive.</li> <li>• Need greater clarification on what Regional Projects are.</li> <li>• Projects should be put together to make the best regional package even if it means some Subregions get less money in the process to avoid looking like the projects were just cobbled together.</li> </ul> <p>Request made that the FCD with the support of the consultant team to draft a Strawman for review by the following subcommittee and then distributed to the Steering Committees for review.</p> <ul style="list-style-type: none"> <li>• Randall Orton (keep Barbara Cameron informed)</li> <li>• Leighanne Reeser</li> <li>• Mary Zauner (keep Dave Hill informed)</li> <li>• Nancy Steele (keep Tom Erb informed)</li> <li>• Wendy La</li> </ul>	<ul style="list-style-type: none"> <li>• FCD will draft Criteria Strawman for review.</li> </ul>
<b>8. Grant Ad Hoc Committee(s) Status</b>	<p>Rich Nagel discussed the Water Conservation Ad Hoc Committee and the following issues were discussed.</p> <ul style="list-style-type: none"> <li>• A Strawman can be developed to begin the discussion on a water conservation package</li> <li>• Need to decide if the region should pursue a regional conservation package for the expedited funding round that all subregions can benefit from</li> <li>• Rich Nagel distributed an outline on water conservation</li> <li>• Request made to define conservation in the Strawman</li> </ul> <p>George De La O noted that there is still a need for additional participation on all of</p>	<ul style="list-style-type: none"> <li>• George De La O will send out an email with existing volunteers for Ad Hoc Committees.</li> <li>• Interested parties should email George De La O if they want to participate in any of the Ad Hoc Committees</li> </ul>

	the Ad Hoc Committees and will send out a list of the current participants on each Ad Hoc Committee. Request was made for any parties interested in participating to email George De La O.	
<b>9. IRWMP Annenberg Proposal</b>	<p>Nancy Steele discussed the revised proposal to the Annenberg Foundation for additional funding for DAC Outreach and covered the following points:</p> <ul style="list-style-type: none"> <li>• Current proposal is refined from last years proposal reflecting an increased emphasis on grassroots outreach to DACs</li> <li>• Proposal includes conducting a ‘needs assessment.’</li> <li>• Formulation of projects with interested parties with engineering support to make the projects feasible and include them in the IRWMP.</li> <li>• Watershed Coalition would be the grantee and would hire a group to do the outreach that would be accountable to the Leadership Committee but would not be a single individual hired to work at the County Offices as previously proposed.</li> <li>• Matching funds requirement fulfilled using funds for DAC Outreach in existing consultant contract.</li> </ul> <p>Motion made and passed unanimously to go forward with the proposal to the Annenberg Foundation.</p>	<ul style="list-style-type: none"> <li>• Motion passed unanimously to go forward with the application to the Annenberg Foundation</li> </ul>
<b>10. 2008 Consultant Activities</b> a. Planning Needs / Project Prioritization b. Disadvantaged Community Involvement c. Region Acceptance Process	<p>Melih Ozbilgin reviewed the status of consultant activities noting that the project prioritization was covered as part of Agenda Item #7 and the RAP was covered as part of Agenda Item #4.</p> <p><b>Disadvantaged Community Outreach</b> Moving forward with identification and support of DAC projects and working to improve the DAC outreach based on guidance from the Leadership Committee.</p>	<ul style="list-style-type: none"> <li>• No Action</li> </ul>
<b>11. Water Supply Gap Analysis</b>	<p>The Water Supply Gap Analysis was presented to Leadership Committee for adoption and the following discussion occurred:</p> <ul style="list-style-type: none"> <li>• Analysis is an update to those in the IRWM Plan</li> <li>• Requested was made for a presentation to the Leadership Committee by the Consultant Team and Grace Chan of MWD on how the Analysis were done and where the numbers came from.</li> <li>• If this Analysis is amending the IRWMP, there needs to be clarification on how changes to the IRWMP are dealt with</li> <li>• Comments was made that the LC should just accept Analysis as a dated revision to the water supply gap since new numbers will be coming out again soon.</li> <li>• Request was made to ask questions about some of the numbers used in the gap, specifically citing the inclusion of water supply numbers that show an</li> </ul>	<ul style="list-style-type: none"> <li>• Agendize presentation on Water Supply Gap Analysis for next Leadership Committee Meeting.</li> </ul>

	increase in water supply during global warming.	
<b>12. Future Presentations: Water Quality Funding Initiative</b>	Mark Pestrella offered to have Hector Bordas give a presentation next month to the Leadership Committee on the County's Water Quality Funding Initiative	<ul style="list-style-type: none"> <li>• Agendize Water Quality Funding Initiative Presentation</li> </ul>
<b>13. Future Agenda Items / Other Items</b>	<p>Motion made and passed unanimously to recognize Frank Kuo's service in the IRWMP Process</p> <p>Regional Windshield report on conservation being developed using sewer inflows based on work from the ground up with wastewater operators to make connections and share data. Results of the effort will be presented at a later date.</p> <p>Next Tuesday (February 3<sup>rd</sup>) the State Water Quality Control Board will formerly consider new recycled water policy. There will also be a mandate to update basin plans in the next 5 years.</p> <p>Request to Agendize a discussion on sustainable funding at a future Leadership Committee Meeting.</p>	<ul style="list-style-type: none"> <li>• FCD will generate a card to be circulated to the LC for recognition of Frank Kuo</li> <li>• Agendize a discussion on sustainable funding</li> </ul>
<b>14. Meeting Adjournment</b>	Meeting Adjourned at 11:33 a.m.	<ul style="list-style-type: none"> <li>• No Action</li> </ul>
<b>15. Next Meeting:</b>	LA IRWMP Leadership Committee: Los Angeles County Public Works, Wednesday, February 25, 2009, 9:30 a.m. – 12:00 p.m.	<ul style="list-style-type: none"> <li>• No Action</li> </ul>

Region Acceptance Process Guidelines Comments  
Submitted 1/27/09 to Department of Water Resources for the  
Greater LA County IRWM Region

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**From:** De La O, George  
**Sent:** Tuesday, January 27, 2009 6:47 AM  
**To:** 'DWR\_IRWM@water.ca.gov'  
**Cc:** Bordas, Hector; Araumi, Siyavash  
**Subject:** Region Acceptance Process Guidelines Comments to DWR

Hello Norman.

Thank you for conducting the workshop in Los Angeles to provide clarification on the Region Acceptance Process guidelines. The following comments are for the Greater Los Angeles County IRWM Region. If you have any questions, please feel free to contact me at (626) 458-7155.

George De La O  
Greater Los Angeles County IRWM Region  
(626) 458-7155

1. The release of the guidelines for the planning grant and implementation grant should be staggered to enable Regions adequate time to prepare the applications.
2. If the guidelines and/or funding for the implementation grant are expected to be delayed, the submittal time for the Region Acceptance Process application should be increased to enable Regions adequate time to prepare their application.
3. Item 2 in Table 1 states the Reviewer of the Region Acceptance Process application will determine if the Regional Water Management Group (RWMG) members have or will adopt the IRWM Plan. This should be modified to be consistent with the Integrated Regional Water Management Planning Act of 2002 which indicates the RWMG is to adopt the IRWM Plan, not the individual members.
4. Item 2 in Table 1 also states the Reviewer is to determine if the RWMG members represent the majority of the water management authorities and stakeholders within the region boundary. The guidelines should take into account that stakeholders vary their participation in the IRWM process.
5. In the IRWM program, it appears there are four separate questions that need to be answered: 1) Is the Region acceptable?; 2) Is the RWMG acceptable?; 3) Is the IRWMP acceptable?; and 4) Is the grant application acceptable? In order to remain consistent with the SBxx1 requirements in 10541(f), our suggestions include limiting the RAP's focus to the first question above.

Recognizing that the information submitted for the Regional Acceptance Process needs to be detailed enough to provide DWR staff with sufficient information to make an evaluation, while not being so overly burdensome as to discourage participation, we recommend a more streamlined approach, using a tiered submittal framework. Our suggestion to accomplish that is as follows: Those Regions that do not have an adopted

IRWMP by a date certain would submit materials as requested in the draft RAP Guidelines. Those regions that do have an adopted IRWMP would only be required to submit item numbers one, six, and eight from Table 1 in the draft RAP Guidelines because those questions are directly related to the acceptability and composition of a region, as required in SBxx1. The remaining items in Table 1 are more directed at answering the question of whether the RWMG and IRWMP are acceptable, which we believe should be outside the scope of the RAP.

This suggestion would significantly reduce the volume of material that must be submitted to DWR, and therefore reduce the DWR staff workload in reviewing the submittals. This suggestion would also reduce the potentially onerous staff costs and consultant costs to prepare the submittal for most Regions in the state. Given the current state of the economy and its impact on DWR, local governments, and other IRWMP stakeholders, a more streamlined approach to defining acceptable regions would be especially appreciated. Finally, this suggestion would allow DWR to devote more staff time to aiding those regions that are still in the development phase, which would be the most efficient use of DWR staff time, and of most benefit to regions developing IRWMPs.

ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
1031	Ballona Wetlands Expansion	?	Constructed wetlands/potential State park	REGIONAL	NA	NA
1054	Del Rey Lagoon park Expansion	?	Del Rey Lagoon land acquisition and design process	REGIONAL	NA	NA
1055	Del Rey neighborhood Council area Bike Racks on city streets	?	Place bike racks in business areas for shoppers and those going to eating establishments.	REGIONAL	NA	NA
1157	UCLA Bicycle Master Plan	?	Ease bicycle congestion in and around UCLA campus	REGIONAL	NA	NA
1177	Westwood Traffic Mitigation Wilshire Blvd.	?	Westside Bike working with City Council on traffic problem for bicycle riders.	REGIONAL	NA	NA
10981	Emerald Necklace-Segment F: Whittier Narrows to South of Pico Rivera Sprea	Amigos de los R�os	This Emerald Necklace multi benefit project involves landscaping, restoring and beautifying & adding a water quality to a critical 4 mile segment of land adjacent to the San Gabriel River from Whittier Narrows to South of the Pico Rivera Spreading Ground. This area is 20 acres in total and will include habitat and multi benefit trails including a stabilized decomposed granite path, lighting, access gateways, way finding & interpretive signage, native vegetation & other recreation & exercise amenities. The project will function as part of the part of the Emerald Necklace regional park network to address local and regional water quality, water conservation, open space needs, habitat restoration, and public education. Treatments are based on creating an integrated network of environmentally sensitive and beneficial best management practices throughout the Emerald Necklace System.	LOW_LA_RVR	RIO_HONDO	REGIONAL
9869	Emerald Necklace â€ SEGMENT D: San Gabriel River in El Monte to Azusa	Amigos de los R�os/City of El Monte/Emerald Necklace Coalition	This Emerald Necklace multi benefit project involves landscaping, restoring, beautifying & adding a water quality and water conservation swale to a critical 2.9 mile segment of land adjacent to the SGR banks from the boundary of El Monte to Azusa. This segment begins where Hanson Aggregates trail meets the SGR in the south & extends north to Angeles Forest in Azusa. This bioswale greening area is 12 acres in total & will include a community habitat park; multi benefit trails of stabilized decomposed granite, lighting, access gateways, way finding & interpretive signage, native vegetation & other recreation & exercise amenities. The project will function as part of the part of the Emerald Necklace Regional Park network to address local & regional water quality, water conservation, open space needs, habitat restoration, and public education. Treatments are based on creating an integrated network of environmentally sensitive and beneficial best management practices throughout the Emerald Necklace System.	UP_SG_RVR	LOW_LA_RVR	REGIONAL
11195	Emerald Necklace Innovative Forestry Program - Tree Planting Campaign	Amigos de los Rios	We propose to continue and extend the swale through the next segment of the Emerald Necklace. To date we have worked with local youth corps to implement demonstration bioswales with in our first two Emerald Necklace Park Jewels: Lashbrook and Rio Vista Parks. Our goal is to harvest water locally, replenish the aquifer, and to prevent urban run off with its pollutant loads to enter the channel. We have had success with the â€eco Rainâ€ tank product which we have used in conjunction with native soil and native vegetation. The tanks are sized by our civil engineer to manage a peak storm load per state standards, geofiber is placed in the depression, and the boxes installed to create an underground aquifer. We would like the next segment to be located in Peck Road Water Conservation Park adjacent to an existing parking lot. Accompanying interpretive signage will inform the public of the need for such a swale and the water quality benefits it provides.	REGIONAL	NA	NA

Greater LA IRWMP  
Regional Projects List

January 2009

ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
10788	Green Collar Youth Training Program	Amigos de los Rios	Amigos will provide two 2 month courses called the Youth Green Collar Training Project to offer training in environmental services for 50 at-risk youth ages 16 to 24 in order to initiate workforce development for the Emerald Necklace. The under 25 population in this region totals 119,840, nearly 45% of the population, many of whom are considered "at-risk" because of poverty, unemployment, delinquency, teen pregnancy, and exposure to drugs and gangs. As many as 100 youth will be recruited from the cities of El Monte, South El Monte, Baldwin Park, Irwindale, Rosemead, and East Los Angeles through collaborations with local youth service organizations, local school districts, and our affiliates in the workforce development sector, the Central San Gabriel Valley WorkSource or Career Partners (One-Stop). Recruits will be given an assessment evaluation that will be used to identify 50 participants with the necessary interest level while also determining their basic skill level.	REGIONAL	UP_SG_RVR	LOW_LA_RVR
10749	Emerald Necklace Vision Plan II	Amigos de los Rios/Emerald Necklace Coalition	The Emerald Necklace Vision Plan II will provide a comprehensive study with processes to add technical data, protocols & guidelines. Through this study, Amigos will examine existing conditions, including major infrastructure, policies and services. Amigos will also identify barriers & opportunities within the watershed that are significant to land use, flood control/stormwater runoff, water quality & protection, municipal water supply, water recycling & conservation, sustainable design, habitat degradation & restoration, parks, trails, open space preservation & safety. The process will result in a Best Practices Manual as a reference for the Emerald Necklace Coalition & a framework for multi-disciplinary partnerships to work collaboratively in developing healthy watershed management strategies to further minimize stormwater runoff within the densely developed San Gabriel Valley. The Manual will provide a level of consistency across the region creating a link between land use & water protection policies.	REGIONAL	NA	NA
436	Arroyo Seco Channel and Park Naturalization	Arroyo Seco Foundation	Naturalize the Arroyo Seco channel between the York Street Bridge and the Arroyo Seco Parkway Bridge. Partial or full removal of concrete channel lining. Connect two existing stream diversions to flow as one naturalized stream from San Pasqual Avenue to Stoney Drive through the S. Pasadena golf course and into the naturalized section of the Arroyo Seco channel. Restore habitat and native vegetation along the eastern hillside from S. Pasadena through Arroyo Seco Park in LA and on the 5 acre "Island" parcel on the west side of the channel. Improve and connect the network of trails. Install BMPs along channel wall to eliminate and treat runoff from the sport facility and the equestrian trail.	UP_LA_RVR	REGIONAL	NA
418	Hahamongna Basin Multi-Use Project	Arroyo Seco Foundation	The project regrades the reservoir basin behind the dam to increase capacity and create a storm water conservation and sediment management pool. Excavated sediment will be placed around the perimeter, raising the elevation of the existing open space above the inundation level. Upstream, the stream course degraded by past mining operations, will be widened and restored. The Dam's operating plan will be modified to allow water to be stored behind the Dam throughout the year. A pumpback system will move the storm water to improved spreading grounds in the basin. This will increase the capacity of the Dam's water conservation pool. In the Arroyo Seco Canyon, the existing diversion/intake dam will be replaced with a rubber dam, an adjacent fish ladder. The head-works dam will be replaced with an adjacent fish ladder with screens to prevent fish from entering the sediment ponds. An upgraded water treatment plant at the mouth of the canyon will treat 5 cfs of this diverted water.	UP_LA_RVR	REGIONAL	NA
467	North Branch Stream Daylighting	Arroyo Seco Foundation	The North Branch stream is an historic tributary feeding the Arroyo Seco in NE LA, now confined to an underground storm drain. This project will daylight 2 sections of the stream by diversions of low flows from the existing storm drain which discharges directly into the Arroyo Seco. One section will acquire and transform an abandoned, nuisance parcel into riparian habitat and open space. The other section will daylight 740 ft. of the storm drain in Sycamore Grove, an existing multi-use park. Diversions will be screened and planted with native vegetation. Trails will be created along the stream and connect with existing trail network.	UP_LA_RVR	REGIONAL	NA

Greater LA IRWMP  
Regional Projects List

January 2009

ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
1692	Brine to Potable Water & Energy	Assorted Water & Energy Agencies	Use Forward, <a href="http://tinyurl.com/rtlsh">http://tinyurl.com/rtlsh</a> , or Reverse Osmosis to produce pure water from groundwater or wastewater. Produce biodiesel from algae, <a href="http://tinyurl.com/rtlsh">http://tinyurl.com/rtlsh</a> , while the algae remove pollutants from the brine reject water.	REGIONAL	NA	NA
1710	Salton Sea & Owens Lake remediation with algae to biodiesel project	Assorted Water & Energy Agencies	Produce biodiesel from algae, <a href="http://tinyurl.com/rtlsh">http://tinyurl.com/rtlsh</a> , while the algae remove pollutants from the brine reject water. If necessary use Forward, <a href="http://tinyurl.com/rtlsh">http://tinyurl.com/rtlsh</a> , or Reverse Osmosis to reduce water salinity or to concentrate salts for burial. See	REGIONAL	NA	NA
1711	Salton Sea & Owens Lake remediation with algae to biodiesel project	Assorted Water & Energy Agencies	Produce biodiesel from algae, <a href="http://tinyurl.com/rtlsh">http://tinyurl.com/rtlsh</a> , while the algae remove pollutants from the brine reject water. If necessary use Forward, <a href="http://tinyurl.com/rtlsh">http://tinyurl.com/rtlsh</a> , or Reverse Osmosis to reduce water salinity or to concentrate salts for burial. See	REGIONAL	NA	NA
1694	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.	REGIONAL	NA	NA
1015	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.	REGIONAL	NA	NA
944	THINK RIVER!	California Resource Connections RMC	Think River is the implementation of an integrated watershed education program to provide educational opportunities for youth in the San Gabriel Valley regarding water quality, water supply and use, habitat. Three parts: 1) High School Student Mentoring Program 2) Teacher Education Workshop 3) Youth Watershed Conference.	REGIONAL	NA	NA
1067	Exposition Light Rail	Caltrans	Light rail on abandoned rail. Includes bicycle trail. Ten segments are in project.	REGIONAL	NA	NA
1122	Playa Vista Bicycle Trail	Caltrans	Bicycle trail	REGIONAL	NA	NA
1156	Traffic Mitigation	Caltrans	Add two traffic lanes to existing Hwy. Eliminate bike lanes & sidewalks. Create more congestion-more auto pollution.	REGIONAL	NA	NA
1197	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.	LOW_LA_RVR	REGIONAL	NA
1021	Ballona Creek Stormwater Trash Capture System	City of LA	Install 3 full trash capture systems.	REGIONAL	NA	NA
1026	Ballona Lagoon Improvements	City of LA	Removal of non-natives, dredge channel to improve tidal circulation and install fencing to reduce public access.	REGIONAL	NA	NA
1036	Catch Basin Labels	City of LA	The project labels catch basins throughout the City of LA. Approximately 11,500 in Ballona Creek.	REGIONAL	NA	NA
1037	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.	REGIONAL	NA	NA
1057	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.	REGIONAL	NA	NA
1068	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.	REGIONAL	NA	NA
1115	North/East/Central LA Bicycle Projects	City of LA	Projects connected with new subway system	REGIONAL	NA	NA
1149	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.	REGIONAL	NA	NA
1053	Del Rey Lagoon Improvements	City of LA Recreation & Parks	Improve tidal flushing ad plant native vegetation	REGIONAL	NA	NA
1081	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	REGIONAL	NA	NA

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1082	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	REGIONAL	NA	NA
1046	Colorado Lagoon Restoration	City of Long Beach, Public Works	With limited tidal flushing, and urban runoff from a 1100-acre watershed depositing in the lagoon, sediment and water quality is degraded. The project will restore the marine ecosystem and support safe recreation while improving water and sediment quality and managing stormwater.	REGIONAL	NA	NA
1160	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.	REGIONAL	NA	NA
1014	Arsenic Treatment for Zone 2 Well	City of Santa Fe Springs	Provide Arsenic treatment facilities for Well No. 2. Water may benefit drinking water quality in Santa Fe Springs plus adjacent cities such as Norwalk and Cerritos. Arsenic treatment will be provided to meet new EPA MCL for drinking water.	LOW_LA_RVR	REGIONAL	NA
1034	Cast Iron Main Replacement Program	City of Santa Fe Springs	NA	LOW_LA_RVR	REGIONAL	NA
1110	New Well in Zone 1.	City of Santa Fe Springs	Construction of new water well in zone 1 of the City.	LOW_LA_RVR	REGIONAL	NA
1111	New Zone 1 Reservoir/Pump Station	City of Santa Fe Springs	Remove old natural gas and diesel internal combustion engines and replace them with electric driven motors and pumps to provide improved system psi. The project will also include a master controlling center with a variable frequency drive.	LOW_LA_RVR	REGIONAL	NA
1112	New Zone 2 Reservoir/Pump Station	City of Santa Fe Springs	Remove old natural gas and diesel internal combustion engines and replace them with electric driven motors and pumps to provide improved system psi. The project will also include a master controlling center with a variable frequency drive.	LOW_LA_RVR	REGIONAL	NA
1119	Phase 1 Transmission Main Investigation, Repairs, and Design	City of Santa Fe Springs	NA	LOW_LA_RVR	REGIONAL	NA
1120	Phase 2 Transmission Main Investigation, Repairs, and Design	City of Santa Fe Springs	NA	LOW_LA_RVR	REGIONAL	NA
1124	Portable generators for wells	City of Santa Fe Springs	NA	LOW_LA_RVR	REGIONAL	NA
1131	Recoating of Reservoir No 2	City of Santa Fe Springs	Recoating interior of reservoir.	LOW_LA_RVR	REGIONAL	NA
1132	Recoating of Reservoir No. 1	City of Santa Fe Springs	Recoating interior of reservoir.	LOW_LA_RVR	REGIONAL	NA
593	Regional Water Treatment Facility	City of Santa Fe Springs	Water treatment facility that would provide potable water by utilizing untreated state water, and the plant will have the technology to provide ground water clean up within the basin	LOW_LA_RVR	REGIONAL	NA
1139	Reservoir No. 2 Chloramination Facilities	City of Santa Fe Springs	Provide a water treatment facility at the Foster Road Reservoir to chlorinate groundwater and treat purchased MWD water. The project includes the construction of an addition to the existing building to allow for bulk storage of chemicals. It also includes installation of chemical feed pumps, electrical panels, and all related piping.	LOW_LA_RVR	REGIONAL	NA
604	Sea Water Project	City of Santa Fe Springs	Develop and build a transmission main to carry sea water to the Lower San Gabriel Basin and utilize the water for Fire Fighting (Hydrants), and for each home to have a salt water service for toilets/urinals.	LOW_LA_RVR	REGIONAL	NA
1159	Undersized Main Replacement Program	City of Santa Fe Springs	Upgrade to 8 inch main (includes hydrant upgrade)	LOW_LA_RVR	REGIONAL	NA
1051	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.	REGIONAL	NA	NA

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1027	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.	REGIONAL	NA	NA
5225	North Spring Street Linear Park	CRA/LA	Create a linear park along North Spring Street, from the Chinatown Gold Line Station to the future L.A. River revitalization node, on City-owned land adjacent to the future L.A. State Historic Park (Cornfields site). Linear park would be accessible 24/7 with pocket areas for active recreation (skateboarding; exercise; Tai Chi; jogging/walking; bikes), which are high priorities for adjacent low-income communities with working-class parents and limited park space.	LOW_LA_RVR	REGIONAL	NA
1105	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.	REGIONAL	NA	NA
1043	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, II. User-friendly streets make for ease of bike transportation.	REGIONAL	NA	NA
1056	Discovery Center Watershed Education Program	Discovery Center Watershed Education Program	A San Gabriel River Discovery Center is being planned to replace the existing, small Nature Center in Los Angeles County's Whittier Narrows Recreation Area. The new Discovery Center will present the story of the San Gabriel River and its watershed and will emphasize the importance of water resources and the natural values of the watershed. Its audience will range from school children to adults. The Center will also continue the current natural history message presented by LA County Parks and Recreation at the existing Nature Center. The planned facility would consist of a 16,000 square foot "green" building with an auditorium, classrooms and hands-on exhibits on the river's ecology, plus an outdoor classroom, and a recreated Tongva fishing camp. The Center will also be an important node in the planned Emerald Necklace chain of parks along the river.	REGIONAL	NA	NA
1058	Enhance / Restore Habitat 1	Dominguez Watershed Advisory Council	1. Enhance / restore Wilmington Drain.	REGIONAL	NA	NA
1059	Enhance / Restore Habitat 2	Dominguez Watershed Advisory Council	2. Enhance Machado Lake wetlands.	REGIONAL	NA	NA
1060	Enhance / Restore Habitat 3	Dominguez Watershed Advisory Council	3. Enhance Gardena Willows.	REGIONAL	NA	NA
1061	Enhance / Restore Habitat 4	Dominguez Watershed Advisory Council	4. Enhance Walteria Lake .	REGIONAL	NA	NA
1062	Enhance / Restore Habitat 5	Dominguez Watershed Advisory Council	5. Enhance pocket wetlands.	REGIONAL	NA	NA
1063	Enhance / Restore Habitat 6	Dominguez Watershed Advisory Council	6. Enhance and restore canyon habitats.	REGIONAL	NA	NA
1064	Enhance / Restore Habitat 8	Dominguez Watershed Advisory Council	7. Daylight historic streams to restore wetlands.	REGIONAL	NA	NA
1065	Enhance / Restore Habitat 9	Dominguez Watershed Advisory Council	8. Investigate feasibility and restore concrete-lined tributary channels.	REGIONAL	NA	NA
1069	Increase use of pervious pavement during development and redevelopment.	Dominguez Watershed Advisory Council	Reduce Hardscape	REGIONAL	NA	NA
1070	Increase Water Reuse 1	Dominguez Watershed Advisory Council	1. Increase use and expansion of the recycled water system.	REGIONAL	NA	NA
1071	Increase Water Reuse 2	Dominguez Watershed Advisory Council	2. Increase installation of rain-water harvesting systems and cisterns.	REGIONAL	NA	NA
1072	Increase Water Reuse 3	Dominguez Watershed Advisory Council	3. Develop and construct new alternative water sources.	REGIONAL	NA	NA
1133	Reduce Discharge Impairments 1	Dominguez Watershed Advisory Council	6. Create wetlands to treat urban runoff.	REGIONAL	NA	NA

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1134	Reduce Discharge Impairments 2	Dominguez Watershed Advisory Council	7. Enhance existing detention/retention basins.	REGIONAL	NA	NA
1135	Reduce Discharge Impairments 3	Dominguez Watershed Advisory Council	8. Rute flows to detention/retention basins to reduce flooding and treat runoff.	REGIONAL	NA	NA
1136	Reduce Discharge Impairments 4	Dominguez Watershed Advisory Council	9. Construct DURRF for water treatment and reuse.	REGIONAL	NA	NA
1137	Reduce Legacy Pollutants	Dominguez Watershed Advisory Council	3. Develop and implement a sediment management plan for Machado Lake.	REGIONAL	NA	NA
1138	Reduce Trash	Dominguez Watershed Advisory Council	2. Install and maintain catch basin inserts in high priority areas.	REGIONAL	NA	NA
2530	Track Water Conservation By Consumers and Keep 50% of Waters Saved in Source Watersheds	Dorothy Green	While the logistics on this one appear complex, this concept -- that every consumer's efforts to conserve water should be linked directly to restoring/preserving source watersheds -- makes a lot of sense to consumers interested in ecosystem preservation. Currently any conserved waters remain available for use for other newly developed areas; so the perception is that water conservation may just fuel additional development. The idea of making sure that 50% of waters conserved stay in a source watershed is a method of addressing needs to provide water for future growth with needs to preserve/restore troubled source watersheds.	NO_SMB	REGIONAL	NA
1013	Area C Trail	Environmental Now	Trail	REGIONAL	NA	NA
1169	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.	REGIONAL	NA	NA
1096	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.	REGIONAL	NA	NA
1098	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.	REGIONAL	NA	NA
1127	Public Parking Lot Structural BMP Project	LA County Dept. of Beaches & Harbors	Structural BMPs at Marina del Rey County-owned public parking lots.	REGIONAL	NA	NA
1032	Ballona Wetlands Walkway	LA County DPW	Walkway from Pacific Ave. to the wetlands	REGIONAL	NA	NA
11781	Open Space and Parks Gap Analysis in Los Angeles County	LA County Parks and Recreation	GIS mapping the park poor communities and open space areas of the Los Angeles County.	REGIONAL	REGIONAL	REGIONAL
1315	Equestrian Facilities BMP Education Outreach	LA Trails Project	The equestrian Community is a frequent user along river washes. There may be some benefits for frequent visits that are not recognized by water management agencies, and that is the improved visibility gained from riding horseback. The equestrian community is often the first to note degradation in the water quality and can help to identify non-point sources of pollution because of the routes they travel. Propose to implement a similar project to the RCD document used in the Marin and San Francisco Bay area for the control of e.coli contamination from horse manure. Project BMP will include an EPA approval for the construction of on-site manure bunkers that do not contribute to non-point source pollution and management practices	REGIONAL	UP_LA_RVR	NO_SMB
1017	Ballona Creek Disinfection	LA/DPW/BOS/WPD	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.	REGIONAL	NA	NA
1022	Ballona Creek Street Retrofit	LA/DPW/BOS/WPD	The proposed project is a habitat restoration priority for restoring native watershed habitat adjacent to Triunfo Creek	REGIONAL	NA	NA

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1146	South Santa Monica Watershed Runoff Treatment, Reuse, and Infiltration Proj	LA/DPW/BOS/WPD	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	REGIONAL	NA	NA
1116	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)	REGIONAL	NA	NA
1963	Los Angeles County Storm Drain Initiative 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 will follow the successful completion of the SDI, which is a multi-jurisdictional collaborative effort to develop a complete GIS database of the storm water infrastructure within Los Angeles County.	REGIONAL	NA	NA
1033	Case Studies	LADWP	Develop case studies for onsite reuse of process water; target and promote reuse project funding through Technical Assistance Program	REGIONAL	NA	NA
1042	City Facilities Program	LADWP	Target water savings opportunities at all City facilities	REGIONAL	NA	NA
1045	Clothes Washer Rebate	LADWP	Continue rebates for higher efficiency washers, marketing program at point of purchase	REGIONAL	NA	NA
1047	Commercial Rebate Program	LADWP	Expansion of existing menu-based rebate program, supplementing additional measures beyond ULF toilets	REGIONAL	NA	NA
1074	In-House Rebate Processing	LADWP	Establish permanent LADWP processing center for water/energy efficiency rebates	REGIONAL	NA	NA
1076	Landscape Assessment	LADWP	Recast use of CBOs for landscape assessment, limited interior measures, and leak detection	REGIONAL	NA	NA
1102	Minor Water Quality Improvements at LADWP Reservoirs	LADWP	Plan, design, and construct minor water quality improvement facilities for various reservoirs.	REGIONAL	NA	NA
1104	Multi-Family Metering - New Construction	LADWP	Service-based incentive (expedited service connections, reduced connection fees)	REGIONAL	NA	NA
1106	Native Plants/Synthetic Turf	LADWP	Develop program to promote use of native plants and synthetic turf to reduce the amount of water that is unused for landscape irrigation	REGIONAL	NA	NA
1113	Non-Residential Metering - New Construction and Retrofit	LADWP	Service-based incentive (expedited service connections, reduced connection fees)	REGIONAL	NA	NA
1114	Non-Residential New Construction Program	LADWP	Rebates for highest efficiency toilets, cooling towers, clothes washers, smart irrigation systems, and native plant palettes	REGIONAL	NA	NA
1123	Pool Cover Program	LADWP	Rebates for swimming pool covers to reduce the amount of water that is naturally evaporated	REGIONAL	NA	NA
1130	Rainwater Catchment Program	LADWP	Rebates for cisterns when captured water is used for irrigation to reduce water demand	REGIONAL	NA	NA
1140	Residential New Construction	LADWP	Rebates for highest efficiency toilets, clothes washers, smart irrigation systems, and native plant palettes	REGIONAL	NA	NA
1145	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	REGIONAL	NA	NA
1148	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	REGIONAL	NA	NA
1154	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.	REGIONAL	NA	NA

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1155	Technical Assistance Program	LADWP	Expansion of existing program services to include comprehensive incentive packages to target the wider range of conservation opportunities	REGIONAL	NA	NA
1158	ULF Toilet Exchange Program	LADWP	Distribute ULF toilets and dispose of old toilets	REGIONAL	NA	NA
752	Historic Aerial Photography Preservation	LASGR Watershed Council	Identify and catalog aerial photographs from the past that show extent of historic wetlands and riparian habitats in Los Angeles County.	REGIONAL	NA	NA
826	Online Watershed Primer	LASGR Watershed Council	The project would create a single-source, comprehensive collection of maps, diagrams, and brief texts presenting an accessible, broad and rich description of the LA and San Gabriel River watersheds. The on-line primer will make use of the latest in internet resources, such as streaming videos, RSS, and will maximize the information resources while minimizing the search time for locating those resources.	REGIONAL	NA	NA
1152	Sustainable Landscape Program	LASGR Watershed Council	Further development of Los Angeles County focused sustainable landscape education program for home owners, businesses, institutions, and elected and appointed officials. The program would use a variety of delivery methods appropriate each target audience to encourage a "landscape ethic" with a focus on practices such as the incorporation of native and Mediterranean climate plants, water conservation best practices, invasive plant removal and green waste reduction.	REGIONAL	NA	NA
727	Watershed Education for Elected/Appointed Officials	LASGR Watershed Council	The purpose is to promote the application of watershed approaches to resources management issues through training and outreach to decision-makers and practitioners, such as elected officials, planners, and engineers. Specifically, we will provide seminars and trainings, on-line resources, project development assistance, watershed symposia and associated newsletter, and seminars on sustainable landscape design. This program will result in more multi-benefit projects that identify measurable environmental results and watershed-friendly local ordinances. The short-term outcomes will be increased watershed knowledge and information for local decision-makers and an increase in the number of effective, results-oriented watershed groups producing measurable environmental results. The long-term outcomes will be improved water quality, optimized local water resources, increased watershed-friendly recreation space, enhanced natural processes, and protected/restored natural habitats.	REGIONAL	NA	NA
2549	Calabasas Landfill: Separate Out Compostable Items, Especially Horse Manure And Sell Compost	Malibu Creek Watershed Council -- Conceptual Project List	Horseowner pay huge amounts to get manure dumped; the same is true of green waste from gardening; these items should be treated as a precious biological resource and sold to farmers and gardeners.	NO_SMB	REGIONAL	NA
2524	Cities and County Provide Annual Report on Wherever Recyclables Go and How They Are Utilized	Malibu Creek Watershed Council -- Conceptual Project List	City of Santa Monica provides tours of their recycling facilities, Las Virgenes Municipal Water District tracks where composted materials go. This kind of information is crucial to successful outcome with recycling programs.	NO_SMB	REGIONAL	NA
2566	Consider Luxury Tax on Lawns	Malibu Creek Watershed Council -- Conceptual Project List	Project would greatly reduce the number of lawns in the area, decreasing nutrients, pesticides, fertilizers and water use. Project would allow for public grass areas such as soccer fields!	NO_SMB	REGIONAL	NA
2535	Education/outreach for Spanish-speaking Community with Message: Tap Water in Los Angeles IS Potable!	Malibu Creek Watershed Council -- Conceptual Project List	Project would reduce plastics use, energy use from bottling water and would be a public service for low income communities -- project needs to provide science based information to community.	NO_SMB	REGIONAL	LOW_LA_RVR

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2540	Education/Outreach to Los Angeles County --> Our Tap Water Tops Bottled Water!	Malibu Creek Watershed Council -- Conceptual Project List	Project would reduce energy use and reduce a huge source of trash.	NO_SMB	REGIONAL	NA
2552	Legalize+ Implement Safe/Healthy Toilet-to-Tap; Project Requires Preliminary Public Relations Effort to Create Public Support for Transition	Malibu Creek Watershed Council -- Conceptual Project List	Project would mean appropriated treated effluent could be used locally reducing volume of imported water and volume of water being released into local watersheds. This would improve water supply and water quality concerns. Project would require a sophisticated outreach effort with hip talent from sports/Hollywood/music backgrounds making this seem like the height of cool. Locally treated water would have to be the new Prius --	NO_SMB	REGIONAL	NA
2500	Lifeguards -- Ask to Add Weekly Beach Reports to Chalkboards for Swimmers/Surfers	Malibu Creek Watershed Council -- Conceptual Project List	Project could be free or very low cost; project could be county-wide.	NO_SMB	REGIONAL	NA
2527	Line Item Donation on Monthly Water Bills to Fund Water Buy-Back Program to Keep Water in Source Watersheds	Malibu Creek Watershed Council -- Conceptual Project List	Based on Dorothy Green's idea that water conservation in L.A. County should be linked to preserving/restoring Source Watersheds such as the Bay-Delta, the Colorado River and Owens River/Mono Lake Watersheds, this program proposes placing a line on each monthly water bill wherein consumers could donate money to purchase water in the next year to STAY in the source watershed. If LADPW or MWD provided one staff person with extensive understanding of the water marketplace to implement this, all monies raised could go 100% to the Buy-Back effort, thus improving hydrological and ecological conditions in source watersheds in potentially under two years.	NO_SMB	REGIONAL	NA
2561	Native Plants Ordinance	Malibu Creek Watershed Council -- Conceptual Project List	Various desert cities have mandated xeriscaping and/or nativescaping, reducing by such measures the total water use by 50% or more. Any efforts in this arena would have hugely positive impacts on habitat restoration, on water conservation and on water quality.	NO_SMB	REGIONAL	NA
2423	NSMB Shorebird Habitat Preservation + Restoration	Malibu Creek Watershed Council -- Conceptual Project List	Similar efforts by Dr. Karen Martin of Pepperdine with grunion and Lu Plauzoles with Least Terns in Santa Monica have been very successful.	NO_SMB	REGIONAL	NA
2225	Possible Introduction of New Mountain Lions into NSMBW	Malibu Creek Watershed Council -- Conceptual Project List	Project would reintroduce new DNA into the mountain lion population of the Santa Monica Mountains helping to preserve native populations.	NO_SMB	REGIONAL	NA
2519	Possible Tax on Disposable Items for Maintaining Landfills and Buying Them + To Fund Recycling/Recyclable Products In Lieu of Disposables	Malibu Creek Watershed Council -- Conceptual Project List	The concept is that this proposed project would place burden of landfill upkeep upon creators/users of products which fill them.	NO_SMB	REGIONAL	NA
2571	Reduce Pharamaceuticals in Watershed by Getting Drugstores to Have a Take-Back for Unused Hormones and Drugs	Malibu Creek Watershed Council -- Conceptual Project List	Drugs in waste water are hard to reduce or eliminate; however keeping unused older drugs out of the watershed should be relatively simple.	NO_SMB	REGIONAL	NA
1165	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.	REGIONAL	NA	NA

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1075	LACFD Admiralty Way Bioretention Filter System	NA	Installation of Bioretention filter system to capture sheet flow from the parking lot	REGIONAL	NA	NA
1086	Low-Flow Storm Drain Diversion Program	NA	NA	REGIONAL	NA	NA
1097	Marina Beach Water Quality Improvement Project (Increase Basin D Circulatio	NA	NA	REGIONAL	NA	NA
1107	Neighborhood Cisterns	NA	Multifaceted: Collect runoff from residential lots (gravity feed_ to cisterns on public land or righ 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.	REGIONAL	NA	NA
1162	Venice Blvd Structural BMPs	NA	Use of On-site structural BMPs on potential locations identified in J 1/4 Wet Weather TMDL IP	REGIONAL	NA	NA
1464	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.	REGIONAL	REGIONAL	REGIONAL
304	Restoration of Altamira Canyon at Abalone Cove Ecological Reserve	Palos Verdes Peninsula Land Conservancy	Restoration and enhancement of 2 acres of riparian and upland native habtiat in Altamira canyon will stabilize soils and minimize surficial land movement and discharge of sediment into the Abalone Cove State Ecological Preserve. Habitat restoration will be conducted in a manner that limits/minimizes surface water infiltration into the landslide complex by planting deep-rooted native shrubs and trees along the canyon to assist in stabilizing surficial soils and absorb surface water and shallow groundwater to prevent infiltration into deeper geologic structures.	SO_BAY	REGIONAL	NA
1023	Ballona Creek Trail and Bikeway Improvement Project	Partially funded by State Parks Recreational Trails Program. Baldwin Hills	Recreational objectives - bikeway improvements.	REGIONAL	NA	NA
6992	Runoff Remediation Program	Pierce College	This project will utilize 4 BMPs to control stormwater runoff, remove pollutants, and recharge groundwater. The BMPs include: (1) four dry detention/infiltration basins, (2) four restored corridors, (3) three biofilters, and (4) restored wetlands. BMPs were strategically chosen and placed based on factors including, topography, geological conditions, catchment areas, available space, construction costs, pollutant-removal efficacy, and compatibility with existing and foreseeable land uses. P8 modeling was used to refine both the location and sizing of the BMP features. Four catchment basins (A,B,C,D) exist. Anticipated performance of BMPs are as follows: Catchment A: removes 54% of TSS, 26% of heavy metals, and 19% of fecal coliforms. Catchment B: removes 45% of TSS, 31% of heavy metals, and 21% of fecal coliforms. Catchment C: removes 89% of TSS, 71% of heavy metals, and 72% of fecal coliforms. Catchment D: removes 92% of TSS, 73% of heavy metals, and 76% of fecal coliforms.	UP_LA_RVR	REGIONAL	NA
8816	Urban Interpreters for Environmental Education Program	Resource Conservation Distirct of the Santa Monica Mountains	The RCDSMM would target multiple universities and city colleges in order to find charismatic young adults from inner city communities, who would then be trained via the RCDSMM biannual Naturalist Training Program. Then this funding would be used to provide scholarships for inner city schools and transit money to bring them out to the target sites at Topanga State Park, the Malibu Lagoon and Sepulveda Basin.	NO_SMB	REGIONAL	UP_LA_RVR
8776	RCDSMM Watershed Center	Resource Conservation District of the Santa Monica Mountains	Clark Stevens is an award-winning green architect based out of Topanga who wants to take an abandoned lot with dysfunctional creeks adjacent and restore the creeks, build some commercial, possibly residential units and restore hte rest to open space with Nativescaping. He is interested in partnering with the RCDSMM to help build a Watershed Center which would become a teaching tool for many decades to demonstrate effective, reasonably priced, graceful BMPs to local homeowners. Site is still under negotiation.	NO_SMB	REGIONAL	NA

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ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
8810	Water Quality Program	Resource Conservation District of the Santa Monica Mountains	Project will be based on/build upon Jamie Rinehart's work in coordinating a regionwide water quality testing program and will be syncretic and non-duplicative.	NO_SMB	REGIONAL	NA
8755	Zero Trash Coffee Shop	Resource Conservation District of the Santa Monica Mountains	Program would partner with a coffee shop (preferably from a major chain) to put in a washing machine and utilize all ceramic/glassware with customers required to either bring in their own, buy their own or use real kitchenware on site. Coffee shop would benefit from major good press.	NO_SMB	REGIONAL	NA
1774	Community Native Plant Rescue Nursery	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 with plants & seed from those plants impacted during grading/grubbing. Nursery utilized by developer to fulfill container stock/seed needs at low cost. Facility incl. plant inventory to be transferred to Parks & rec., SMMC, or appropriate volunteer organization. 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. Partial public funding will make locally derived native plants cost competitive, available for residents & local developers in an ongoing basis.	UP_LA_RVR	REGIONAL	NA
1906	Aquarium of the Pacific Watershed Exhibit Expansion	Rivers and Mountains Conservancy	expansion of the Lower LA River and San Gabriel River Watershed exhibits	REGIONAL	NA	NA
1050	Coyote Creek Improvements (Park)	Rivers and Mountains Conservancy (RMC), City of Los Alamitos	The site is comprised of a Southern California Edison Easement, and an Orange County Flood Control Easement. Los Alamitos Creek runs through the 6.6 acre site. Plans entail widening of Los Alamitos Creek channel to a creek configuration, with riparian willow, coastal sage scrub, and oak woodland habitat throughout the site with interpretive, wayfinding signage, trails, and recreation connection to the Coyote Creek regional bike trail adjacent to the site.	REGIONAL	NA	NA
1029	Ballona Watershed Storm Drain Map	Santa Monica Baykeeper	Map of all stormdrains in Ballona Creek Watershed	REGIONAL	NA	NA
1039	Centinela Basin Dry-Weather Runoff Diversion & BMP	SMBRC	City of Santa Monica is implementing project	REGIONAL	NA	NA
1019	Ballona Creek Litter Monitoring Project	SMBRC (Prop. 12)	Implemented by LAC-DPW	REGIONAL	NA	NA
1028	Ballona Watershed BMP Prioritization	SMBRC (Prop. 12)	To be implemented by watershed cities and County	REGIONAL	NA	NA
1030	Ballona Wetlands Dunes Restoration	SMBRC (Prop. 12)	Implemented by Friends of Ballona Wetlands	REGIONAL	NA	NA
1025	Ballona Creek Water Quality Improvement Project - CDS installations	SMBRC (Prop. A)	Implemented by City of LA DPW	REGIONAL	NA	NA
1024	Ballona Creek Trail and Bikeway Improvements - Phase I	SMMC	Improvements to bike trail access points, landscaping, signage, and public outreach.	REGIONAL	NA	NA

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ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
11552	Big Tujunga	Sunland Tujunga Neighborhood Council	Big Tujunga River Parkway. Umbrella organization of federal, state, LA County, LAcity, and Sunland Tujunga Neighborhood Council, LA trails project, others. Goals; 1. Cooperative environmentally sound planning, design and creation of the Big Tujunga River Parkway from Big Tujunga Dam to Hansen Dam and protect trail and wildlife corridors, Rim of the Valley trail connections, prevent or reverse isolation and loss of connectivity between large habitat areas, loss of listed threatened and endangered species and sensitive or rare habitat associations threatened by rapid urban encroachment. 2. Apply for Prop 84 river parkway grant as Big Tujunga umbrella organization with SMMC. 3. Consolidate and include various LA county IRWMP projects into Big Tujunga where appropriate. 4. Monitor water quality wells and reduce pollutant levels with timely or real time information. Monitor mitigation requirements relating to water quality in and around the Hansen Dam drainage. 5. Plan water release regimine to enhance	UP_LA_RVR	REGIONAL	NA
1040	Centinela Creek Trail Greenway	TBD	Multiple objectives	REGIONAL	NA	NA
1052	Creek to Baldwin Hills Trail under Utility Lines	TBD	Bicycle , hiking, & habitat connection, including stormwater retention, recreation, etc.	REGIONAL	NA	NA
1125	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.	REGIONAL	NA	NA
1714	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.	REGIONAL	NA	NA
1170	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.	REGIONAL	NA	NA
1171	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.	REGIONAL	NA	NA
1018	Ballona Creek Entrance Channel Modifications	USACE	Modification of entrance to Marina del Rey & mouth of Ballona Creek.	REGIONAL	NA	NA
1084	Lower Ballona Creek Restoration Study	USACE	Lower Ballona Creek Restoration study	REGIONAL	NA	NA
1099	Marina del Rey entrance channel dredging	USACE	Periodic maintenance dredging in Main, North, & South entrance channels & mouth of Ballona Creek to maintain navigable depths.	REGIONAL	NA	NA
1100	MDR & BC Sediment Control Management Plan Feasibility Study	USACE	Sediment control management plan to reduce sedimentation & contamination within MDR's navigation channels from Ballona Creek discharges.	REGIONAL	NA	NA
1020	Ballona Creek Maintenance	USACE & LA Co DPW	Maintenance	REGIONAL	NA	NA
1066	Establish a Stormwater Retention Site	Various	Establish a stormwater retention site in the upper watershed, to reduce stormwater flows and promote infiltration.	REGIONAL	NA	NA
1103	Modification of Ballona Creek Channel	Various	Modification of Ballona Creek Channel	REGIONAL	NA	NA
1118	Parking Lot Retrofit	Various	Retrofit a large parking lot, to remove curbs and install porous pavement.	REGIONAL	NA	NA
1128	Public School Site Retrofit	Various	Retrofit public school site, to reduce impervious surfaces, retain, stormwater, plant native vegetation, increase shade (and reduce energy costs).	REGIONAL	NA	NA
1141	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	REGIONAL	NA	NA
1142	Retrofit a Street Segment	Various	Retrofit / re-engineer a segment of a street, to replace curbs with grassed swales and install porous pavement.	REGIONAL	NA	NA
1143	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	REGIONAL	NA	NA

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ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
1150	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).	REGIONAL	NA	NA
1161	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.	REGIONAL	NA	NA
1009	105 Freeway to Dominguez Gap Barrier Pipeline	Water Replenishment District of Southern California	The 105 Freeway to Dominguez Gap Barrier Pipeline project will take water that is currently being wasted to the ocean as a result of Caltrans' dewatering operations and conserve it in the West Coast Groundwater Basin. This water, in addition to supplemental seasonally available imported water, will offset approximately 7,000 acre-feet per year of imported water that is currently being injected into the Dominguez Gap Barrier	REGIONAL	NA	NA
1080	Leo J. Vander Lans AWTF Expansion	Water Replenishment District of Southern California	The existing Leo J. Vander Lans AWTF provides approximately 3,000 acre-feet per year of recycled water to the Alamitos Seawater Intrusion Barrier. The expansion of the facility to approximately 6,000 acre-feet per year will meet 100% of the barrier's demand. The facility will take tertiary treated water from the LACSD's Long Beach WRP and further treat it through microfiltration and reverse osmosis.	REGIONAL	NA	NA
1178	Whittier Narrow Conservation Pool	Water Replenishment District of Southern California	The Whittier Narrows Conservation Pool project will increase the capacity of the conservation pool located behind the Whittier Narrows Dam and involves raising infrastructure to avoid inundation when water is stored for conservation purposes. This conserved water is then released at a rate equal to the infiltration of the Montebello Forebay spreading grounds for eventual storage in the Central Groundwater Basin.	REGIONAL	NA	NA
1126	Public Park Retrofit	Watershed Cities	Retrofit of public parks to retain stormwater, plant native vegetation, and replace non-native vegetation where appropriate with use.	REGIONAL	NA	NA
741	Green Visions - Habitat, Trail and Recreation Phase 3	Watershed Conservation Authority, RMC	The product of this grant is a framework for the Green Visions Plan. The deliverables included a plan inventory, online plan library and map, data scan and analytical framework and workshop.	REGIONAL	REGIONAL	NA
4702	Irrigable Landscapes Study	West Basin Municipal Water District	This study will help West Basin determine the irrigable areas within its service area to target for our conservation and recycled water programs. We are currently using GIS technology to locate sites for conservation devices as well as recycled water distribution lines, but a thorough study of the area using satellite imaging methodology would greatly enhance our understanding of the area.	REGIONAL	SO_BAY	NO_SMB
11294	Zero-Runoff Street Median Water Conservation Program	West Basin Municipal Water District	The Zero-Runoff Street Median Water Conservation Program (Program) will specifically target street medians by developing a simple grant program within West Basin's service area to reduce water use and improve irrigation practices on street medians. Cities will be asked to propose designs to retrofit existing street medians using the "zero-runoff" concept. This concept replaces existing median vegetation or irrigation with any of the following components to provide a zero net runoff: artificial turf, porous cover, native and/or drought tolerant plants, drip irrigation, and/or Smart Irrigation Controllers. Under this pilot program, a team convened by West Basin will review proposed designs and fund grant applications that provide the maximum reduction in water use (with a minimum reduction of 50%) and zero runoff. It is proposed that fifty percent of the costs be awarded up-front and the other 50% of the costs reimbursed upon project completion.	REGIONAL	SO_BAY	NO_SMB
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.	SO_BAY	REGIONAL	NA

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ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
1260	Commercial Laundromat Incentive Program	West Basin Municipal Water District	This is a new program that offers substantial incentives from multiple utilities (The Gas Company, Southern California Edison, and the Metropolitan Water District of Southern California) to replace non-efficient washers and dryers with more water and energy 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. Approximately 60 commercial laundromat sites have been identified within West Basin's service area that could participate in the program.	REGIONAL	SO_BAY	NO_SMB
5479	Commercial, Industrial and Institutional Incentive Program (Recirc & Save)	West Basin Municipal Water District	This is a new program that provides prescriptive incentives for installation of conductivity and pH controllers and process water equipment. Funding for this program will allow the District to hire a vendor to perform a water audit of the CII users' equipment and educate them about the rebates available for equipment that conserves water. The benefits would include a reduction of wastewater generated, benefiting the County Sanitation Districts of Los Angeles County, and potable water used. Partners will include Metropolitan Water District of Southern California, and West Basin's customer agencies. This project duration is for a period of two years but can be extended with additional funding.	REGIONAL	SO_BAY	NO_SMB
1250	Complete Restroom Retrofit Program	West Basin Municipal Water District	This program provides free hardware devices for commercial and public facility restrooms including high-efficient toilets, waterless urinals, and sensor faucets. This program is currently being implemented with a State grant but on a small scale. Additional funding is needed in order to retrofit more locations and ultimately save more water. This project will have the involvement of the local businesses and public facilities within West Basin's service area. Their indoor restroom devices will be upgraded with the highest efficiency devices including high-efficiency toilets, waterfree or waterless urinals, and sensor faucets. This program is already being implemented in approximately 248 throughout restrooms the service area and has been so successful that we would like to extend the program to include more businesses and public facilities. This program not only provides the devices free of charge, but also the installations.	REGIONAL	SO_BAY	NO_SMB
14053	Conservation Budget-Based Tiered Rate Structure	West Basin Municipal Water District	This project helps our customer agencies to develop a water conservation, budget-based rate structure for their customers. The project is beneficial to West Basin's cities and retail water agencies because it provides a pricing structure that will incentivizes its customers to conserve water. This pricing method has been used in other parts of the State and has been successful at reducing water usage and regarding those who do so with lower rates on their water bill.	NO_SMB	SO_BAY	REGIONAL
333	Dry-weather Runoff and Stormwater Capture Study	West Basin Municipal Water District	This project would look at alternative uses of dry-weather runoff and stormwater that can potentially be captured, treated to reduce contaminants and beneficially reused where feasible rather than sending it to the rivers and ocean. There are major water quality issues within the region and cities are mandated to comply with TMDL levels. Often this task is daunting due to issues of timing, funding, and resources to meet the TMDL regulations. This study would look at ways to capture the polluted runoff, treat it, and then reuse the water for irrigation, groundwater recharge, and other water supply uses. This is an important study for our service area because it can be a model for other areas to use and the fact that our service area lies along the coast, not only are the rivers affected but the Santa Monica Bay receives all the untreated runoff.	REGIONAL	NO_SMB	SO_BAY
11291	Food Facilities Audit, Incentive and Training Program (Cash for Kitchens)	West Basin Municipal Water District	This program would target large to medium sized food service facilities to market water efficient equipment to replace older existing equipment and promote water saving training. West Basin proposes to conduct audits of the food service facilities to provide the customer with a quick summary of water saving and energy saving recommendations. Some of the recommendations can be implemented immediately, such as minor leak repair, aerator and pre-rinse spray head replacement while others would be long term changes including investment in equipment upgrades. Recommendations could also include conducting training in both English and Spanish to assist staff to use existing equipment as efficiently as possible.	REGIONAL	SO_BAY	NO_SMB

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ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
13959	Hotel Restroom Retrofit Program	West Basin Municipal Water District	The project will assist hotel facilities financially to encourage them to retrofit older, inefficient fixtures. Fixtures can be found in lobby areas (usually flushometer type toilets), in-room bathrooms (tank-type toilets) and in staff areas (back of the house, type of toilet may vary). Technical assistance will be provided to hotel management applying for rebate incentives. MWD provides a baseline incentive of \$165 for High-Efficiency Toilets and \$400 for Ultra Low to Zero-Water Urinals. Additional incentives will be funneled through MWD's existing channels to streamline the process for customers and ensure readiness to implement. This project would increase water-use efficiency in the West Basin's service area and would also help meet BMP #9, Conservation Programs for CII accounts would be addressed through this project. The project will also increase public awareness of water conservation practices and make device retrofit more accessible to hotel facilities in West Basin's service area.	NO_SMB	SO_BAY	REGIONAL
1258	Irrigation Equipment/Water Budget Program	West Basin Municipal Water District	This program offers landscape audits and customized incentives for matching heads, pressure regulators and weather-based irrigation controllers for customers including multi-family, commercial, industrial 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 targets sites will have a landscape area of one acre or greater. This project is currently a pilot project that West Basin is conducting with funding assistance from Metropolitan Water District. The Pilot project will take place within one year, through end of 2008. Since this project has been successful, additional funding will be needed to expand this project to more participants that will result in additional water savings.	REGIONAL	SO_BAY	NO_SMB
13736	Ocean-Friendly Landscape Program	West Basin Municipal Water District	West Basin has formed a formal partnership with the Surfrider Foundation to develop an innovative program called the "Ocean Friendly" Program. This program will be implemented throughout West Basin's service area and will include the implementation of native landscape demonstration gardens and classes that teach residents the importance of having a drought-tolerant landscape. The "Ocean Friendly" classes will not only teach residents the importance of having an "Ocean Friendly" landscape that uses innovative techniques and materials to reduce runoff and water, but incentives will be provided for the purchase of "smart" irrigation controllers that both conserve water and reduce urban runoff. The program also involves installation of smart irrigation controllers for large landscapes greater than 1 acre in size.	NO_SMB	REGIONAL	SO_BAY
1264	Residential High-Efficiency Clothes Washer Rebate Program	West Basin Municipal Water District	This program provides rebates to residents for high-efficiency clothes washer machines. This program has both water and energy savings components. The Metropolitan Water District of Southern California currently provides rebates in the amount of \$135 per washer machine. This program would continue the rebates but matching Metropolitan's amount of \$135 for a total amount of \$270 per washer machine. This program would provide 2,000 rebates per year at approximately \$270,000 for a total of \$540,000. The water savings amount to approximately 36 acre-feet per year.	REGIONAL	SO_BAY	NO_SMB
13823	Residential Indoor Plumbing Retrofit Kits	West Basin Municipal Water District	West Basin would like to expand its exiting project to educate and mobilize a larger student population to conduct 20,000 residential water and energy audits and to install water and energy retrofit devices in their households over a 2 year period. The total project cost is \$932,960 to supply educational device retrofit kits to 20,000 students during the 2-year period. The average cost for each audit and retrofit kit is \$43.00. Typically, this includes teacher resource materials, audit directions, recordkeeping booklet and water saving devices including 1 high-efficiency shower head, 1 kitchen faucet aerator, 2 bathroom faucet aerators, 1 packet of leak detection tablets, 1 leak detector calculator, 1 flow rate test bag and 1 water temperature check card. Energy saving devices typically includes 1 CFL bulb, 1 Limelite night light, and 1 Filtertone alarm. In support of educating students on the connection between water and energy savings, Edison and The Gas Company will contribute matching funding	NO_SMB	SO_BAY	REGIONAL

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ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
1270	Supermarket Retrofits	West Basin Municipal Water District	This is a new program that will provide and install free pre-rinse spray valves, high-efficiency toilets, waterfree urinals, and waterrooms for supermarkets and food stores. This program has been identified in West Basin's Conservation Master Plan as having the potential to conserve 12 acre-feet per year. West Basin would partner with its customer agencies to identify facilities to participate and help pay for the local cost share.	REGIONAL	SO_BAY	NO_SMB
1268	The Green Garden Program	West Basin Municipal Water District	West Basin will implement the "Green Garden Program," a Residential Landscape Survey and Smart Irrigation Controller Exchange Program to customers within its service area. This program involves four phases: pre-installation site surveys, Smart Irrigation Controller Exchange Events (including a 1-hour training session), a post-installation site visit, and water savings verification research. The pre-installation site survey will pre-qualify the resident for an irrigation controller and rotating sprinkler nozzles and provide irrigation and landscape recommendations. The Exchange Event will allow the pre-qualified resident to exchange their old controller for a new controller, receive up to 11 nozzles and a 1-hour training course on programming the controller. The post-installation site visit verifies that the new controller and the rotating nozzles were installed properly and if they weren't, the vendor will correct the problem. This program is expected to generate 67 acre-feet per year of water savings.	REGIONAL	SO_BAY	NO_SMB
385	Turf Buy-Back Program	West Basin Municipal Water District	This project will provide incentives for owners to remove their turf lawn for \$1.00 per square foot. They can replace their lawn once removed with native landscaping, porous cover, artificial turf, rocks, etc. There will be follow-up visits to ensure that the owner complies with the regulations of the program and do not replace the turf with new turf cover. Not only will this program reduce water use, it will also reduce water runoff since 70% of water applied to turf runoff the landscape and into the storm drains. Runoff from landscapes contributes significantly to the TMDL problem in Santa Monica Bay and its tributaries. This project will help to address those issues while saving water at the same time. This project is very much needed within our service area because the cities are adjacent to the Santa Monica Bay where runoff enters and pollutes the ocean. The \$1.00 pre square foot will be matched with MWD's \$1.00 per square foot; the incentive is higher for a resident to take advantage of.	REGIONAL	SO_BAY	NO_SMB
1254	Water & Energy Efficiency Multi-Family Program	West Basin Municipal Water District	This program will directly install both water and energy efficiency devices in multi-family dwellings. Replacement includes: 3,000 HETs (1.28 gallons per flush), that replace older 3 &#39; 5 gallon toilets; 9,000 13Watt twist CFL bulbs; 3,000 (1.5 GPM) Low-Flow Showerheads, 3,000 (1.5 GPM) Kitchen Aerators and 3,000 (1.0 GPM) Bathroom Aerators. The program will also disseminate conservation education literature, thus providing a "full service" water and energy efficiency program. Based on the demographics and rate of natural replacement and saturation data collected within West Basin's service area, there is an opportunity to reach over 77,000 multi-family dwelling units in West Basin and roughly 10,000 in the City of Torrance. 3,000 HETs will save an estimated 176 AF of water per year. Also, additional water will be saved (335 AF over the useful life) by providing multi-family dwelling units with water conservation educational materials, and water efficient showerheads and aerators.	REGIONAL	SO_BAY	NO_SMB
1176	West Hollywood Bicycle Master Plan	West Hollywood MTA	Planning and implementation underway	REGIONAL	NA	NA
12149	Groundwater Reliability Improvement Project, Phase I (GRIP Phase I)	WRD, USGVMWD, LACSD, SGVMWD	GRIP Phase I involves the construction of an advanced water treatment facility that will purify tertiary treated effluent from the San Jose Creek WRP utilizing micro filtration, reverse osmosis and advanced oxidation. Distribution pipelines will convey the advanced treated recycled water to spreading basins located south of Santa Fe Dam for replenishment of the Main San Gabriel Basin and to the spreading basins located south of Whittier Narrows Dam for replenishment of the Central Basin. The new facility will produce 18,000 acre-feet per year of advanced treated recycled water, 9,000 of which will be spread in the Main San Gabriel Basin and 9,000 will be spread in the Central Basin.	LOW_LA_RVR	UP_SG_RVR	REGIONAL

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ID	Project Title	Agency	ProjectDescription	Subregion 1	Subregion 2	Subregion 3
12223	Groundwater Reliability Improvement Project, Phase II (GRIP Phase II)	WRD, USGVMWD, LACSD, SGVMWD	GRIP Phase II involves the expansion of GRIP Phase I that will purify tertiary treated effluent from the San Jose Creek WRP utilizing micro filtration, reverse osmosis and advanced oxidation. Distribution pipelines will convey the advanced treated recycled water to spreading basins located south of Santa Fe Dam for replenishment of the Main San Gabriel Basin and to the spreading basins located south of Whittier Narrows Dam for replenishment of the Central Basin. The expansion will produce 28,000 acre-feet per year of advanced treated recycled water will be spread in the Main San Gabriel and Central Basin.	UP_SG_RVR	LOW_LA_RVR	REGIONAL

# 2008 IRWMP Water Supply Gap Analysis

## Approach

To project the Greater Los Angeles County Region's (GLACO) water supply gap in 2030, the following steps were undertaken:

1. Determine GLACO's portion of the Metropolitan Water District's (MWD) Integrated Water Resources Plan (IRP) targets for each supply type based on GLACO's percentage of the MWD's demands.
2. Determine the Region's current supplies by supply type under six supply scenarios.
3. For each scenario, calculate the gap between GLACO's supply targets and current local and imported supplies.

## Definition of Terms

Consistent with MWD's IRP, the terms "target" and "gap" are defined as follows for this memo:

A *target* is the amount of water from a given supply category that MWD intends to develop to meet its projected demands. The total supply target, which is the sum of the supply targets from each category, is equal to amount of water needed to meet projected demands in a given year.

A *gap* is defined as the difference between the amount of water currently available in a supply category and the target for that supply category. The difference between the sum of all current supplies and the total supply target is equal to the total supply gap.

### 1) GLACO's Portion of MWD's IRP Supply Targets

To determine GLACO's portion of the IRP targets, 2008 retail demand data from MWD's Shortage Allocation Plan (SAP) process was used<sup>1</sup>. 2008 retail and replenishment demands for each MWD member agency serving LA County, 2008 retail and replenishment demands for nineteen percent<sup>2</sup> of MWDOC, and 2004-2006 average annual groundwater extractions from the cities of Alhambra, Azusa, Monterey Park, and Sierra Madre and were combined to determine GLACO's total 2008 retail demand. The portion of GLACO's 2008 retail and replenishment demand to MWD's total 2008 retail and replenishment demand was then determined, as shown in the following table.

**Table 1: GLACO's Portion of Total Regional Demands**

Los Angeles County Retail Demands	1,714,000
San Gabriel Valley MWD Retail Demands	48,000
Los Angeles County Replenishment Demands	101,000
<i>Los Angeles County Subtotal</i>	<i>1,863,000</i>
MWDOC Retail Demands	503,000
MWDOC Replenishment Demands	52,000
% of MWDOC population in GLACO	19%
<i>MWDOC Subtotal</i>	<i>105,000</i>
<b><i>Total GLACO Demands</i></b>	<b><i>1,968,000</i></b>
Total MWD Retail Demands	3,915,000
San Gabriel Valley MWD Demands	48,000
Total MWD Replenishment Demands	214,000
<b><i>Total Regional Demands</i></b>	<b><i>4,177,000</i></b>
<b>GLACO portion of Regional Total</b>	<b>47%</b>

<sup>1</sup> The Shortage Allocation Plan (SAP) data was used because it (1) is the most recent source of publicly available retail demand data and (2) was reviewed by each of MWD's member agencies during the development of the SAP.

<sup>2</sup> 19% was used based on information from MWDOC during the 2005 assessment that 19% of its demands should be included in GLACO.

The Region's percentage of MWD's total demand, calculated above to be 47%, was then multiplied by the total MWD supply targets reported in the 2007 IRP Implementation Report<sup>3</sup> to determine what portion of these targets should be attributed to GLACO. The results are shown in the table below:

**Table 2: GLACO's Portion of MWD's IRP Supply Targets**

	2007 IRP Implementation Report Supply Targets				GLACO's Portion of IRP Targets <sup>4</sup>			
	2010 <sup>5</sup>	2015 <sup>6</sup>	2020 <sup>7</sup>	2025 <sup>8</sup>	2010	2015	2020	2025
In-Basin Groundwater Storage	275,000	288,000	300,000	300,000	129,000	135,000	141,000	141,000
SWP	463,000	560,000	650,000*	650,000*	218,000	263,000	306,000	306,000
CRA	879,000	1,065,000	1,250,000	1,250,000	413,000	501,000	588,000	588,000
CV Storage and Transfers	550,000	550,000	550,000	550,000	259,000	259,000	259,000	259,000
In-Basin Surface Water Storage	620,000	620,000	620,000	620,000	291,000	291,000	291,000	291,000
Conservation	865,000	950,000	1,028,000	1,107,000	407,000	447,000	483,000	520,000
Local Resources (LRP)**	660,000	705,000	750,000	750,000	310,000	331,000	353,000	353,000
<i>Recycling</i>	<i>408,000</i>	<i>436,000</i>	<i>464,000</i>	<i>464,000</i>	<i>192,000</i>	<i>205,000</i>	<i>218,000</i>	<i>218,000</i>
<i>Groundwater Recovery</i>	<i>99,000</i>	<i>105,000</i>	<i>112,000</i>	<i>112,000</i>	<i>46,000</i>	<i>49,000</i>	<i>53,000</i>	<i>53,000</i>
<i>Seawater Desalination</i>	<i>153,000</i>	<i>164,000</i>	<i>174,000</i>	<i>174,000</i>	<i>72,000</i>	<i>77,000</i>	<i>82,000</i>	<i>82,000</i>
Local Production***	1,810,000 <sup>9</sup>	1,860,000	1,910,000 <sup>10</sup>	1,920,000 <sup>11</sup>	851,000	874,000	898,000	902,000
<b>Total Supply Target</b>	<b>6,122,000</b>	<b>6,598,000</b>	<b>7,058,000</b>	<b>7,147,000</b>	<b>2,878,000</b>	<b>3,101,000</b>	<b>3,319,000</b>	<b>3,360,000</b>

\* The SWP 2020 and 2025 supply targets do not consider any improvements to the Delta.

\*\* Percentages for recycling, groundwater recovery, and seawater desalination are based on LRP targets from the 2003 IRP Update for each resource type. Current LRP target does not differentiate between resource types.

\*\*\*The IRP does not include targets for local production, but does include estimates used in the analysis to help formulate other resource targets. The estimates from the 2003 IRP Update have been used for this analysis as these have not been modified.

<sup>3</sup> IRP targets were obtained from the 2005 and 2007 IRP Implementation Report. Buffers were included where applicable.

<sup>4</sup> Equal to 47% of the 2007 IRP Implementation Report Supply Targets

<sup>5</sup> Source: 2007 IRP Implementation Report, p. 1-4, unless otherwise noted.

<sup>6</sup> 2015 numbers are straight-lined between 2010 and 2020.

<sup>7</sup> Source: 2005 IRP Implementation Report, p. 4, unless otherwise noted.

<sup>8</sup> Source: 2005 IRP Implementation Report, p. 4, unless otherwise noted.

<sup>9</sup> Source: 2003 IRP Update Report, p. 63 (Table 5-2)

<sup>10</sup> Source: 2003 IRP Update Report, p. 63 (Table 5-2)

<sup>11</sup> Source: 2003 IRP Update Report, p. 63 (Table 5-2)

## 2) Region's Current Supplies

The Region's current supplies are divided into two categories: MWD imported water and local supply. MWD imported supplies include in-basin groundwater storage, the State Water Project, the Colorado River Aqueduct, Central Valley storage and transfers, and in-basin surface water storage. Local supplies include conservation, local resources, and local production.

Supply conditions were assessed under the six scenarios. For each scenario, SWP supplies were estimated using DWR's recently updated SWP reliability curve<sup>12</sup>. Supply projections from this document include the projected effects of the Wanger decision, which include a decrease in SWP Table A deliveries, particularly during multiple dry years, and a lower probability of annual Table A delivery exceeding 1.7 MAF<sup>13</sup>. All other supplies were held constant for each scenario. Scenarios 4 through 6 are based on the average of the four climate change scenarios included in The State Water Project Delivery Report 2007. The scenarios considered were:

1. Worst year (1977) - 6% SWP allocation<sup>14</sup>
2. Worst 3-year (1990-92) - 18% SWP allocation<sup>15</sup>
3. Normal year (Average 1922 – 1983) - 63% SWP allocation<sup>16</sup>
4. Worst year incorporating climate change - 7% SWP allocation<sup>17</sup>
5. Worst 3-year incorporating climate change - 18% SWP allocation<sup>18</sup>
6. Normal year incorporating climate change - 67% SWP allocation<sup>19</sup>

For all MWD imported supplies, GLACO's portion of current MWD supplies from each source was calculated using the region's portion of MWD total demand, determined above. Current MWD supplies for each source were obtained from the 2007 IRP Implementation Report<sup>20</sup>.

Tables 3 and 4 show GLACO's current portion SWP supplies for each scenario and GLACO's current portion of MWD's other imported supplies<sup>21</sup>.

**Table 3: GLACO's Current Portion of MWD's SWP Supplies by Scenario**

Condition	Allocation %	MWD Allocation <sup>22</sup>	GLACO's Current Supply
Worst Year	6%	121,000	57,000
Worst 3-Year	18%	362,000	170,000
Average Year	63%	1,267,000	595,000
Worst Year w/ Climate Change	7%	141,000	66,000
Worst 3-Year w/ Climate Change	18%	362,000	170,000
Average Year w/ Climate Change	67%	1,348,000	634,000

<sup>12</sup> The State Water Project Delivery Reliability Report 2007

<sup>13</sup> The State Water Project Delivery Reliability Report 2007, p. 31

<sup>14</sup> The State Water Project Delivery Reliability Report 2007, p. 44

<sup>15</sup> The State Water Project Delivery Reliability Report 2007, p. 80

<sup>16</sup> The State Water Project Delivery Reliability Report 2007, p. 44

<sup>17</sup> The State Water Project Delivery Reliability Report 2007, p. 78

<sup>18</sup> Average of 4 scenarios in The State Water Project Delivery Reliability Report 2008, p 78

<sup>19</sup> The State Water Project Delivery Reliability Report 2007, p. 78

<sup>20</sup> Page 1-4 of the 2007 IRP Implementation Report, October 2007

<sup>21</sup> GLACO's portion of MWD's imported supplies was assumed to be 47%, based on the calculations in Table 1.

<sup>22</sup> Amounts assume MWD will "call back" 100,000 AF of SWP Table A supplies per MWD's 2003 agreement to transfer SWP entitlement to Desert Water Agency and Coachella Valley Water District; therefore, the maximum MWD allocation of 2,011,500 AFY was used to compute MWD allocations in six different conditions.

**Table 4: GLACO's Current Portion of MWD's Other Imported Supplies**

<b>MWD Imported Water Source</b>	<b>MWD Current Supply</b>	<b>GLACO Current Supply</b>
In-Basin Groundwater Storage	133,000	63,000
CRA	666,000	313,000
CV Storage and Transfers*	292,000	137,000
In-Basin Surface Water Storage	940,000	442,000

Local supplies were obtained from the following sources:

*Conservation*- The Region's supplies from conservation were assumed to be the same as in the 2005 IRWMP water supply numbers. These numbers were obtained from Table A.1-12 of MWD's 2005 Regional Urban Water Management Plan (RUWMP). The conservation supplies of 407,000 AF include:

- All LA County conservation (268,000 AF)
- 20% of Orange County conservation (18,000 AF)<sup>23</sup>
- 45%<sup>24</sup> of pre-1990 conservation of 250,000 acre-feet<sup>25</sup> for LA County (113,000 AF), and
- 3%<sup>26</sup> of pre-1990 conservation of 250,000 acre-feet for Orange County (8,000 AF).

*Local Resources (LRP)*<sup>27</sup> - Supplies from Metropolitan's Local Resources Program include recycled water, groundwater recovery, and seawater desalination. Average supplies from these sources from 2004 to 2006, obtained from the SAP, were assumed to be the current supply.

*Local Production*<sup>28</sup> - Supplies from local production, including groundwater, surface water, and Los Angeles Aqueduct, were assumed to be the average supply from 2004 to 2006 for these sources, as obtained from the SAP.

Table 5 shows GLACO's current local supplies.

**Table 5: GLACO's Current Local Supplies**

<b>Local Supply Source</b>	<b>GLACO Current Supply</b>
Conservation	407,000
Local Resources (LRP)	113,000
<i>Recycling</i>	<i>73,000</i>
<i>Groundwater Recovery</i>	<i>37,000</i>
<i>Seawater Desalination/Other</i>	<i>3,000</i>
Local Production	939,000

<sup>23</sup> Based on the information provided by MWDOC that the GLACO portion of MWDOC represents about 20% of MWDOC demand

<sup>24</sup> 45% was used because LA County's retail demand in 1990 was 45% of MWD's total retail demand (from Table A.1-5 of MWD's 2005 RUWMP, p. A.1-10)

<sup>25</sup> Source: Table A.1-12 of MWD's 2005 RUWMP, p. A.1-14.

<sup>26</sup> 3% was used because it is 20% (GLACO's portion) of Orange County's portion (17%) of MWD's total 1990 retail demand (from Table A.1-5 of MWD's 2005 RUWMP, p. A.1-10).

<sup>27</sup> Source: "Base Year Data" tab of MWD's 2008 Supply Allocation 1-10-08 workbook, Tables: Groundwater Recovery, Other, Recycling

<sup>28</sup> Source: "Base Year Data" tab of MWD's 2008 Supply Allocation 1-10-08 workbook, Tables: Groundwater, Los Angeles Aqueduct, and Surface Production.

The region’s total current supplies for each of the six scenarios were calculated by adding together each of the local and imported supplies identified above. The results are presented in Table 6 below:

**Table 6: GLACO’s Total Current Supply by Scenario**

Scenario	Current Supply <sup>29</sup>
Worst Year	2,471,000
Worst 3-Year	2,584,000
Normal Year	3,009,000
Worst Year Incorporating Climate Change	2,480,000
Worst 3-Year Incorporating Climate Change	2,584,000
Normal Year Incorporating Climate Change	3,048,000

### 3) Gap between Supply Target and Current Supplies

To determine the supply gap, GLACO’s supply targets for each five-year increment were compared to the current supply under each scenario. For each scenario, GLACO’s total current supplies (Table 6) were subtracted from GLACO’s total supply target for each year (Table 2) to calculate the gap between supply targets and current supplies. Numbers were straight-lined from 2020 through 2025 to project the supply gap in 2030. The gaps between supply targets and current supplies for each scenario are shown in Table 7.

**Table 7: Gaps between GLACO Supply Targets and Current Supplies**

Conditions	2010	2015	2020	2025	2030 <sup>30</sup>
2005 IRWMP	150,000	430,000	760,000	800,000	N/A
Worst Year	407,000	630,000	848,000	889,000	930,000
Worst 3-Year	294,000	517,000	735,000	776,000	817,000
Normal Year	-131,000	92,000	310,000	351,000	392,000
Worst Year w/ Climate Change	398,000	621,000	839,000	880,000	921,000
Worst 3-Year w/ Climate Change	294,000	517,000	735,000	776,000	817,000
Normal Year w/ Climate Change	-170,000	53,000	271,000	312,000	353,000

### Results

The results of the analysis for each scenario are as follows:

*Worst Year-* The worst year scenario is based on a 6% SWP allocation, which is identified as the worst case possibility (1977 conditions) in the State Water Project Delivery Reliability Report 2007. This scenario results in the largest gap between current supplies and 2030 supply targets, totaling approximately 930,000 AF.

*Worst 3-Year-* This scenario is based on 1990-1992 conditions, with an 18% SWP allocation. Under this scenario, the projected gap between current supplies and 2030 supply targets is approximately 817,000 AF.

<sup>29</sup> Numbers are rounded.

<sup>30</sup> As the 2007 IRP does not include supply targets for 2030, the supply gap for 2030 was calculated by straightlining the gap from 2020 to 2025.

*Normal Year-* This scenario is based on the long-term average SWP delivery of 63%. Under normal conditions, the estimated supply gap in 2030 is 392,000 AF.

*Worst Year w/ Climate Change-* In the State Water Project Delivery Reliability Report 2007, climate change was incorporated into reliability projections for 2027 using two climate change models: the Geophysical Fluid Dynamic Model and the Parallel Climate Model. Under both models, a 2027 SWP single dry year allocation was projected to be 7%. The estimated 2030 supply gap under this scenario is 921,000 AF.

*Worst 3-Year w/ Climate Change-* Based on the climate change models identified above, a 2027 SWP allocation under 1990-1992 conditions is projected to be 18%. Under this scenario, the projected gap between current supplies and 2030 supply targets is approximately 817,000 AF.

*Normal Year w/ Climate Change-* Based on the climate change models identified above, the 2027 long-term average SWP allocation is projected to be 67%. Under this scenario, the projected gap between current supplies and 2030 supply targets is approximately 353,000 AF.

Based on this assessment, GLACO will need to aggressively pursue additional supplies in order to fill the gap between current supplies and 2030 supply targets.

#### ***Other Factors to Consider***

*Local impacts-* This analysis does not consider local impacts under each supply scenario, but local supplies could also be affected. For instance, if climate change affects supplies from the SWP, it could potentially affect local groundwater and surface water production as well.

*Demand projections-* As an alternative to the supply projections in the IRP, the demand projections in the RUWMP could be used to calculate the supply gap. It was decided by the water managers in the Region that the IRP targets provide a more accurate picture of future demands than the RUWMP demands; therefore, the IRP targets have been used to calculate the Region's supply gap. The calculations of the supply gap using the RUWMP demand projections are provided in Appendix A.

*Breakdown of supply targets-* The IRP targets include a breakdown of what portion of the gap will be filled by what sources. In the initial water supply analysis, it was decided that this breakdown should not be included in the IRWMP. For the IRWMP update, the Region will need to decide whether this breakdown should be included in the IRWMP update, or, alternately, whether a breakdown of supplies to be developed by MWD and those to be developed by the Region should be included.

*Supply gap to be included in IRWMP update-* Under the different scenarios analyzed, the supply gap varies by more than 500,000 AF. The Region will need to decide on which scenario to use for determining the supply gap to include in the IRWMP. Factors to consider when making this determination include the amount of supplies to be filled by storage and transfers in the worst case scenarios as well as the cost-effectiveness of new supply development.

*Conservation targets-* If AB 2175 is finalized, the conservation targets will need to be reevaluated in order to make sure the requirements of the bill are captured in the planning numbers.

## Appendix A

### Supply Gap Using RUWMP Demands Projections

To calculate the Region's total raw demand using RUWMP demand projections, the following data was added together:

- Total retail demand from RUWMP Table A.1-5 for all of LA County and 19% of Orange County
- Conservation savings from RUWMP Table A.1-12 for all of LA County and 19% of Orange County
- The Region's portion of MWD pre-1990 conservation of 250,000. This was calculated by multiplying 250,000 AF by the Region's portion of MWD 1990 demands<sup>31</sup>.

**Table A.1: Regions' Demands from RUWMP**

<b>Normal Year Demands</b>					
	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>2025</b>
LA County Demand with Conservation	1,777,000	1,886,000	1,917,000	1,977,000	2,023,000
Conservation	268,000	330,000	369,000	400,000	437,000
LA County Raw Demands	2,045,000	2,216,000	2,287,000	2,377,000	2,460,000
Orange County Demand with Conservation	673,000	714,000	722,000	735,000	749,000
MWDOC Segment Demands with Conservation	128,000	136,000	137,000	140,000	142,000
Orange County Conservation	90,000	110,000	120,000	126,000	135,000
Proportion of Conservation	17,000	21,000	23,000	24,000	26,000
MWDOC Segment Raw Demands	145,000	156,000	160,000	164,000	168,000
Regions Demands with Conservation	1,905,000	2,022,000	2,055,000	2,117,000	2,166,000
Region's Conservation	285,000	351,000	392,000	424,000	462,000
Proportion of Pre-1990 Conservation of 250,000 AF	120,000	120,000	120,000	120,000	120,000
<b>Total Raw Demands for Region</b>	<b>2,310,000</b>	<b>2,492,000</b>	<b>2,566,000</b>	<b>2,661,000</b>	<b>2,748,000</b>

<sup>31</sup> Based on RUWMP Table A.1-5, LA County demands represented 45% of total MWD demands in 1990. 19% of Orange County demands represented 3% of total 1990 MWD demands.

These demand projections are lower than the supply targets provided in the IRP in part because the IRP numbers (1) include a supply buffer of 500,000 AF to hedge against evolving resource implementation risks and supply/demand uncertainty and (2) are based on dry year demands, which are significantly higher than the average year demands provided at the county level in the RUWMP.

The Region's current supplies from Table 6 were then subtracted from the total raw demands for the Region in Table A.1 to determine the gap. The gap was straight-lined from 2020 through 2025 to project the supply gap in 2030. The results are presented in Table A.2.

**Table A.2: Gaps between RUWMP Average Year Demand Projections and Current Supplies**

<b>Scenario</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>2025</b>	<b>2030 (est.)</b>
Worst Year	21,000	95,000	190,000	277,000	364,000
Worst 3-Year	-92,000	-18,000	77,000	164,000	251,000
Normal Year	-517,000	-443,000	-348,000	-261,000	-174,000
Worst Year w/ Climate Change	12,000	86,000	181,000	268,000	355,000
Worst 3-Year w/ Climate Change	-92,000	-18,000	77,000	164,000	251,000
Normal Year w/ Climate Change	-556,000	-482,000	-387,000	-300,000	-213,000

## **Glossary of Terms**

CRA- Colorado River Aqueduct

CV- Central Valley

GLACO- Greater Los Angeles County Region

IRP- Integrated Resources Plan

IRWMP- Integrated Regional Water Management Plan

LRP- Local Resources Program

MWD- Metropolitan Water District

MWDOC- Municipal Water District of Orange County

RUWMP- Regional Urban Water Management Plan

SAP- Shortage Allocation Plan

SWP- State Water Project

**DEPARTMENT OF WATER RESOURCES**

1416 NINTH STREET, P.O. BOX 942836  
SACRAMENTO, CA 942360001  
(916) 653-5791



January 21, 2009

**For grant recipients not on the exemption list:**

In a January 14, 2009 email message, the Department of Water Resources (DWR) provided you with general information regarding the status of bond-funded activities in California. The purpose of this letter is to update the status of your funding agreement with DWR. DWR's request for your agency's/company's project to be exempted from the requirements of Budget Letter 08-33 was denied by the Department of Finance and the Pooled Money Investment Board. Therefore, DWR is notifying you that we will not, until further notice, provide bond funding to support our funding agreement. Please suspend all work dependent on DWR bond funding of this project unless you can continue using alternative funding sources.

Additionally, the State Controller's Office has halted payment on bond-funded work. At this time we are unable to indicate when disbursements will resume. We understand these events are difficult for all parties involved and your agency/company may not be able to continue work using alternative funding sources. DWR regrets this situation and will provide you with additional information as it becomes available.

Sincerely,

A handwritten signature in black ink, appearing to read "Lester A. Snow".

Lester A. Snow  
Director



DARRELL STEINBERG  
SENATE PRESIDENT PRO TEMPORE

## California Legislature

STATE CAPITOL  
SACRAMENTO, CA 95814



KAREN BASS  
SPEAKER OF THE ASSEMBLY

### *Assembly and Senate Democrats Green Economic Stimulus*

#### *California Jobs, Shovel-Ready Projects, Greening the Economy*

The most important “economic stimulus” the state can enact is to achieve a solution to the budget crisis.

Economic stimulus begins with balancing the state budget. For this program to be successful, it is imperative that policymakers come to an agreement to put the state’s fiscal house in order. Only then, can the historic infrastructure bond package from 2006 be fully implemented.

Speaker Bass and Senator Steinberg propose the following “green economic stimulus” package consisting of over \$2 billion in projects that create jobs and protect the environment.

These funds would be appropriated for immediate economic stimulus projects to provide clean air, clean water, and natural resource protection while providing jobs and economic activity.

These funds are targeted for projects that meet the following criteria:

- Immediate “shovel-ready” projects that create jobs, stimulate the economy, and improve the environment (\$2.3 billion total)
- All permits, authorizations, and approvals issued at the time the project funding is approved. No gutting of environmental laws to build new projects.
- Preference given to the creation/provision of CA jobs and economic activity.
- Projects must provide a “green” dividend in the form of benefiting public health or the environment.

***1. WATER SUPPLY RELIABILITY—New funds to help regions throughout the state make immediate investments for water supply reliability in a drought year.***

SECTION X. Pursuant to Section 75026 of the Public Resources Code, the sum of two-hundred million dollars (\$200,000,000) hereby is appropriated to the Department of Water

Resources for the purposes of expenditures in integrated regional water management plans throughout the state to achieve immediate water supply reliability. Priority shall be given to projects that increase regional water-use efficiency, including but not limited to water conservation improvements, groundwater clean-up and treatment projects, stormwater capture and reuse, projects that provide clean drinking water to disadvantaged communities, and waste water recycling and distribution facilities. Funds shall be distributed in accordance with the percentages allocated to each region pursuant to subdivision (a) of Section 75027.

SECTION X. Pursuant to Section 75050(m) of the Public Resources Code, the sum of fifteen million dollars (\$15,000,000) hereby is appropriated to the state board, and from Section 75060 of the Public Resource Code, the sum of fifteen million dollars (\$15,000,000) hereby is appropriated to the Department of Water Resources for the purposes of stormwater cleanup projects that protect water quality and public health.

- 2. PUBLIC TRANSIT AND MOBILITY-- Help promote public transit and mobility by appropriating \$800 million from Proposition 1B's Public Transit Modernization, Improvement and Service Enhancement Account (PTMISEA) for ready-to-go capital projects.***

*Now is an ideal time to accelerate the expenditure of bond funds for public transit: ridership is at an all-time high in California, agencies have identified hundreds of ready-to-go projects, transit improves mobility without sacrificing air quality.*

*According to the California Transit Association (CTA), for every \$1 billion invested in new transit capital projects, some 31,400 jobs are created and more than \$3 billion in local economic activity is created.*

SECTION X. Pursuant to subdivision (f) of Section 8879.23, \$800 million is hereby appropriated from the Public Transportation Modernization, Improvement and Service Enhancement Account (PTMISEA) to the state Department of Transportation for allocation to public transit agencies for eligible capital improvements to public transit systems and services.

- 3. FIX IT FIRST: Street and Pothole Repair—Create jobs fixing existing streets and repairing potholes. These funds would be used to fill potholes, resurface crumbling neighborhood streets, and improve bike and pedestrian facilities.***

SECTION X. Pursuant to subdivision (l) of Section 8879.23, \$700 million is hereby appropriated from the Local Street and Road Improvement Account to the Controller for allocation to cities and counties in California for improvements to local transportation facilities. Of the amount appropriated pursuant to this paragraph, \$450 million shall be allocated to the counties and \$237 million shall be allocated to the cities.

**4. *CLEANUP BROWNFIELDS AND CREATE AFFORDABLE HOUSING-- Accelerate bond expenditures from Proposition 1C for brownfields cleanup that results in affordable, infill housing development and in the creation, rehabilitation or development of parks pursuant to the recently created Housing-Related Parks Program.***

SECTION X. Pursuant to paragraph (2) of subdivision (b) of Section 53545 of the Health and Safety Code, \$60 million is hereby appropriated to the California Pollution Control Financing Authority for purposes of providing loans and grants under the California Recycle Underutilized Sites (CALReUSE) program for brownfield cleanup that promotes infill residential and mixed-use development.

SECTION X. Pursuant to subdivision (d) of Section 53545 of the Health and Safety Code, \$30 million is hereby appropriated to the Department of Housing and Community Development from the Urban-Suburban-and-Rural Parks Account to fund the creation, development or rehabilitation of parks under the Housing-Related Parks Program.

**5. *FLOOD PROTECTION/PREVENTION OF MUDSLIDES DUE TO FIRES—New funds to help local agencies and flood control officials protect urban areas from flash floods and mudslides due to last summer’s fires.***

SECTION X. Pursuant to Section 5096.827 of the Public Resources Code, the sum of one hundred million dollars (\$100,000,000) is hereby appropriated to the Department of Water Resources for direct expenditure or disbursement to state or local agencies to prevent and mitigate the effects of flash flooding, mudslides, and other damage associated with winter rains and fire damaged areas.

**6. *FLOOD PROTECTION AND TRANSPORTATION ENHANCEMENT – New funds for infrastructure upgrades to reduce conflicts with critical flood conveyance facilities and create construction jobs.***

SECTION X. Pursuant to Section 5096.825 of the Public Resources Code, the sum of fifty million dollars (\$50,000,000) hereby is appropriated to the Department of Water Resources for grants for immediate priority multi-benefit projects that reduce conflicts between flood conveyance facilities and transportation infrastructure.

**7. *FIXING AGING STATE PARKS AND RECREATIONAL FACILITIES—New funds to repair aging state parks infrastructure and to create new construction jobs idled by the housing crisis.***

SECTION X. Pursuant to Section 75063 of the Public Resources Code, the sum of one hundred million dollars (\$100,000,000) hereby is appropriated to the Department of Parks and recreation for the purposes of immediate investments in the deferred maintenance and rehabilitation of aging state parks and recreation facilities throughout the state. In contracting for the repair and rehabilitation of these facilities, the department shall endeavor to use CA-based construction companies or workers.

8. ***“GREEN” URBAN AREAS AND CREATE JOBS--Implement urban tree planting projects that produce local community jobs and increase the livability of our communities.***

SECTION X. Pursuant to Section 75065 of the Public Resources Code, the sum of ten million (\$10,000,000) hereby is appropriated to the Department of Forestry and Fire Protection for the purposes of community tree planting projects. Priority shall be given to projects that maximize job creation and provide multiple benefits, including air quality, water conservation and carbon emission reductions.

SECTION X. Pursuant to subdivision (l) of Section 75050 of the Public Resources Code, the sum of five million dollars (\$5,000,000) hereby is appropriated to the CA Conservation Corps for disbursement to local community conservation corps for support of local conservation corps programs and facilities.

9. ***BUILD NEW LOCAL PARK AND RECREATIONAL FACILITIES –develop new parks and new recreational opportunities in park-poor neighborhoods that create new construction jobs.***

SECTION X. Pursuant to subdivision (b) of Section 75065 of the Public Resources Code, the sum of one hundred million dollars (\$100,000,000) hereby is appropriated to the Department of Parks and Recreation for immediate investments in development and rehabilitation of local park facilities. In contracting for the construction, repair and rehabilitation of these facilities, the department shall provide a preference for CA-based construction companies or workers.

10. ***“GREEN JOBS TRAINING TO REDUCE DROPOUT RATE--Appropriate new funds to reduce high drop out rates and train young people for the new energy economy in jobs like solar manufacturing and clean vehicle technology.***

SECTION X. The sum of fifteen hundred million (\$15,000,000) is hereby appropriated to the Chancellor of the Community Colleges from the Public Interest Energy Research Account for the purposes of augmenting funding provided in the 2008-2009 budget act for green technology training through the CA Partnership Academies.

11. ***CREATE JOBS, SAVE TAXPAYER MONEY BY MAKING STATE BUILDINGS MORE ENERGY EFFICIENT---Direct energy agencies to use ratepayer funds already collected for energy programs to establish aggressive program to retrofit every state building in the state to achieve the maximum energy efficiency achievable.***

SECTION X. (a) The Public Utilities Commission and Energy Commission shall identify any unencumbered funds in the Public Utilities Reimbursement Account, the Energy Resources Program Account, and the Public Interest Energy Research Account and shall redirect those funds to the Department of General Services for the immediate retrofit and renovation of state buildings and facilities in order to achieve the maximum feasible energy efficiency in those buildings to create in-state employment and to reduce state taxpayer costs associated with energy use in those buildings.

**12. BUILD NEW KIDS MUSEUMS AND NATURE EDUCATION FACILITIES—  
Build nature education facilities and create immediate construction, education, and tourism jobs.**

SECTION X. Pursuant to subdivision (b) of Section 75063 of the Public Resources Code, the sum of thirty-five million dollars (\$35,000,000) hereby is appropriated to the Department of Parks and Recreation for grants for nature education facilities and equipment to non-profit organizations and public institutions, including natural history museums, aquariums, research facilities and botanical gardens.

**13. RESTORE WETLANDS, FISH AND GAME HABITAT AND CREATE JOBS –  
fund shovel-ready community projects to enhance and restore natural systems while creating construction jobs.**

SECTION X. Pursuant to subdivision (1) of Section 75055(b) of the Public Resources Code, the sum of thirty-five million dollars (\$35,000,000) shall be expended by the Wildlife Conservation Board for habitat restoration and enhancement projects.

SECTION X. Pursuant to subdivision (b) of Section 75060 of the Public Resources Code, the sum of thirty million dollars (\$30,000,000) hereby is appropriated to the California Coastal Conservancy for habitat restoration and enhancement projects.

**14. CREATE GREEN JOBS FOR THE NEW ENERGY ECONOMY. Educate, train, and employ at-risk young adults, while protecting the environment and rebuilding urban areas.**

SECTION X. The sum of twenty million dollars (\$20,000,000) is hereby appropriated from the Beverage Container Recycling Fund million in surplus Beverage Container Recycling Fund for existing and new local conservation corps which will educate, job train, and put to work hundreds of at-risk young adults within the fiscal year 2009-2010.

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# INTEGRATED REGIONAL WATER MANAGEMENT: DISADVANTAGED COMMUNITY OUTREACH CONCEPT PROPOSAL

The Los Angeles & San Gabriel Rivers Watershed Council on behalf of the Leadership Committee of the Integrated Regional Water Management (IRWM) planning effort for the Greater Los Angeles County Region (Region) is pleased to present the following proposal for your review. We are requesting funding specifically to conduct outreach at the grassroots level to engage disadvantaged communities in the integrated regional water management process and develop a needs assessment around water-related issues. This needs assessment will be used to provide targeted outreach specific groups to develop fundable projects for Proposition 84 grant funds, which are due to be available in about one year. Projects developed by the DACs based on identified needs will improve the overall quality of life in those communities by providing sustainable solutions for water resource management. The amount of our request is \$165,000.

## Background

The Greater Los Angeles County Region, covering 2,200 square miles, has the most complex water quality, resource and supply issues in California. Prior to 2005, there was little integration of solutions, projects and efforts, resulting in an ineffective approach to managing water resources.

That vision began to change in 2005 with a Region-wide partnership to develop an Integrated Regional Water Management plan. The Watershed Council joined with the Los Angeles County Flood Control District (District) and numerous agencies and organizations to address water management resources issues for the next 20 years. Since 2005, these agencies and organizations have brought together an impressive number of stakeholders to build consensus and to collaborate to improve water quality, water conservation and environmental stewardship. The plan was adopted in December 2006.

Today, a 16-agency Leadership Committee oversees the IRWM planning process which is lead by the members of each of the five sub-regional steering committees. The Leadership Committee is chaired by the Flood Control District and includes representatives from each of the five sub-regions that make up the Region. Each sub-regional Steering Committee is made up of agencies, organizations, and individuals working in all water management areas: water supply, water quality, groundwater, sanitation, and open space/habitat/recreation. Each of these sub-regional areas has specific boundaries based on watersheds that define geographic and economic variation. Ideas, concepts and projects are floated from the Steering Committees to the Leadership Committee in a bottom-up approach. The Leadership Committee functions as a Board of Directors by representing the Steering Committees and stakeholders, making decisions that best represent the interests of the Region. Since 2005, this Regional collaboration has yielded many successes.

- Awarded a \$1.5 million planning grant from the State Department of Water Resources and secured \$950,000 in match funding from partners for the development of the Plan.
- Awarded a \$25 million grant from the State Department of Water Resources for implementation of 13 multi-purpose projects representing a total cost of \$112 million.
- Developed operating guidelines and quantifiable targets for the next 20 years.
- Created a website with an online project submittal tools, [www.lawaterplan.org](http://www.lawaterplan.org).
- Held 24 public stakeholder workshops over a 12-month period.
- Identified over 2,000 projects for inclusion in the IRWMP.

- Developed a project prioritization framework.
- Developed and adopted an Interim Outreach Plan Targeting Disadvantaged Communities in the Greater Los Angeles Region

Responding to the funding opportunities represented by Proposition 84, Steering Committees are currently undergoing a round of project prioritization. Those project priorities include ability to meet multiple benefits (improve water quality, add to local water supply, increase habitat and recreation opportunities), readiness, and location in or ability to meet the needs of disadvantaged communities. For the DAC criterion, steering committees are relying heavily on current steering committee members and already submitted projects. The steering committees have not, however, conducted systematic needs assessments nor have they gone into the communities to meet with DAC members who might have ideas and project concepts that are not currently part of our project database.

### **Program Proposal**

We are requesting funding to expand our work to engage stakeholders at the grassroots level in disadvantaged communities in the integrated water resource management process. This planning effort will actively engage DACs helping to develop integrated projects that will be ready to go and, therefore, highly competitive in the region. Projects developed by the DACs will improve the overall quality of life in those communities by providing sustainable solutions for water resource management. A majority of DACs are adjacent to the Los Angeles and San Gabriel River corridors. These communities are heavily urbanized and are impacted by industrial use, pollution, traffic congestion, and lack of open space.

The Leadership Committee and Steering Committees adopted goals and objectives for outreach, as articulated in the adopted Interim Outreach Plan Targeting Disadvantage Communities:

#### Goals:

- Identify and address the water-related needs of disadvantaged communities in the Greater Los Angeles region.
- Reach and involve DACs in the IRWMP process and in identifying and developing projects and programs that benefit their communities.

#### Objectives:

1. Use a phased approach to implement the outreach plan; gradually reaching more people living and working in the region's disadvantaged communities with water resource issues to address.
2. In the near-term, given the current resources of the IRWMP, work with disadvantaged communities to develop projects from the current IRWMP projects list. This includes providing technical support and helping DACs identify leads, funding sources, and other resources.
3. Over time, work with identified disadvantaged communities and their representatives to develop a comprehensive analysis of the water-related needs of these communities throughout the region.
4. Also over time, as additional resources are available to the IRWMP, work with disadvantaged communities to develop a suite of projects to address the identified needs and include them in the IRWMP.

This program proposal is oriented to specifically address objectives 3 and 4. The Steering Committees, with the support of the consultants currently funded by the Steering Committee members are working towards Objective 2. We proposed to spend approximately six months of intensive work attending

evening and weekend community meetings and forums – going into the community to introduce ourselves to DAC members and organizations serving DACs. During this time we would be collecting data towards a needs assessment – asking people what their needs are with respect to water and land.

For the balance of the year we would go back to those groups and individuals with the most interest and ideas to help them flesh out project ideas and to include those projects into the IRWMP database. With additional funding, provided as match by steering committee members, we would provide engineering and planning expertise to further develop a select number of projects to the feasibility study stage. The goal would be to have five projects ready for application for IRWMP funding within one to two years and built within three to five years.

The following table details the Region’s grant funding request:

SCOPE OF WORK	ESTIMATED COST	MATCHING FUNDS	FUNDING REQUEST
Personnel Expenses:			
DAC Outreach Project Management	\$110,000	\$0	\$110,000
Cartography and Information Technology	\$17,500	\$0	\$17,500
Non-personnel Expenses:			
Translation/Interpretation	\$2,500	\$0	\$2,500
Supplies for meetings	\$3,000	\$0	\$3,000
Travel for meetings	\$2,000	\$0	\$2,000
Incidentals, including printing	\$2,500	\$0	\$2,500
DAC Project Development	\$125,000	\$125,000	\$0
Subtotals	<b>\$262,500</b>	<b>\$125,000</b>	<b>\$137,500</b>
Overhead at 20%	\$52,500	\$25,000	\$27,500
Total Request			<b>\$165,000</b>

If you have any questions about our proposal, please contact me. I look forward to hearing from you.

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