

# **Attachment 1**

## **Authorization & Eligibility Requirements**



**RESOLUTION NO. 2013-04**

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
THE SANTA ANA WATERSHED PROJECT AUTHORITY  
AUTHORIZING PREPARATION AND SUBMITTAL OF AN APPLICATION  
TO THE CALIFORNIA DEPARTMENT OF WATER RESOURCES  
TO OBTAIN AN INTEGRATED REGIONAL WATER MANAGEMENT  
IMPLEMENTATION GRANT**

**WHEREAS**, the Santa Ana Watershed Project Authority is recognized by the State of California as the regional planning agency to coordinate, prepare, and implement Integrated Regional Water Management Plans within the Santa Ana River Watershed;

**WHEREAS**, the agency recently conducted as part of its One Water One Watershed planning process a call for projects where 20 projects were identified as part of a project portfolio providing multiple benefits to the region;

**WHEREAS**, the Santa Ana Watershed Project Authority amended the existing One Water One Watershed Plan to include a revised list of projects including the portfolio projects; and

**WHEREAS**, the Santa Ana Watershed Project Authority wishes to facilitate the implementation of these projects for the benefit of the region.

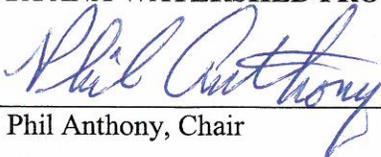
**NOW, THEREFORE, BE IT RESOLVED** that the Board of Commissioners of the Santa Ana Watershed Project Authority (SAWPA) hereby authorizes that an application be prepared and submitted to the California Department of Water Resources to obtain an Integrated Regional Water Management Implementation Grant pursuant to the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Public Resource Code Section 75001 *et seq.*), and to enter into an agreement to receive grant funding for the implementation of the project portfolio.

**BE IT FURTHER RESOLVED**, that the General Manager is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, and execute a grant agreement with the California Department of Water Resources.

**ADOPTED** this 19th day of March, 2013.

**SANTA ANA WATERSHED PROJECT AUTHORITY**

By: \_\_\_\_\_

  
Phil Anthony, Chair



RESOLUTION NO. 2010-15

A RESOLUTION OF THE COMMISSION OF THE  
SANTA ANA WATERSHED PROJECT AUTHORITY  
ADOPTING THE ONE WATER ONE WATERSHED (OWOW) PLAN,  
AN INTEGRATED REGIONAL WATER MANAGEMENT PLAN;  
AND AUTHORIZING APPLICATION TO THE  
CALIFORNIA DEPARTMENT OF WATER RESOURCES TO OBTAIN AN  
INTEGRATED REGIONAL WATER MANAGEMENT IMPLEMENTATION GRANT

WHEREAS, SAWPA declares its intent to adopt and implement the "One Water One Watershed (OWOW) Plan", an Integrated Regional Water Management Plan;

WHEREAS, SAWPA has made the OWOW Plan available to the public and notice of the public hearing on the adoption of the OWOW Plan was given in the manner prescribed by law; and,

WHEREAS, all persons desiring to be heard at the public hearing were given the opportunity to present their views to the Board of Commissioners, and any written communications received by SAWPA concerning adoption of the plan were publicly presented at the public hearing.

NOW, THEREFORE, BE IT RESOLVED that the Santa Ana Watershed Project Authority Board of Commissioners adopts the One Water One Watershed Plan, and authorizes the General Manager to take all appropriate actions to carry out the intent of the Santa Ana Integrated Water Management Plan; and

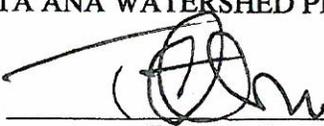
BE IT FURTHER RESOLVED, that the General Manager of the Santa Ana Watershed Project Authority be authorized to submit an application to the California Department of Water Resources to obtain an Integrated Regional Water Management Implementation Grant pursuant to the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Public Resource Code Section 75001 et seq.); and

BE IT FURTHER RESOLVED, that the General Manager of the Santa Ana Watershed Project Authority is hereby authorized and directed to prepare the necessary data, conduct investigations and file such application, and to execute a grant agreement with the California Department of Water Resources.

ADOPTED THIS 16<sup>TH</sup> day of November, 2010.

SANTA ANA WATERSHED PROJECT AUTHORITY

By: \_\_\_\_\_

  
Terry Catlin, Chair

The Undersigned Certifies That This  
Is A True Copy As On File In The  
Permanent Records Of The Agency.  
This Stamp Must Be In Purple Ink  
To Constitute A Certified Copy.

Santa Ana Watershed Project Authority

By  Date 11-16-10



# **SAWPA Commission**

## **Meeting Minutes**

**December 18, 2012**

### **COMMISSION MEMBERS PRESENT**

Terry Catlin, Chair  
Phil Anthony  
Don Galleano  
Ron Sullivan  
George Aguilar

### **REPRESENTING**

Inland Empire Utilities Agency  
Orange County Water District  
Western Municipal Water District  
Eastern Municipal Water District  
San Bernardino Valley MWD

### **OTHERS PRESENT**

Tom Love  
Mike Markus  
Ed Killgore  
Joe Bernosky  
Paul Rugge  
Randy Lee  
Tom Gaworski  
Richard Corneilus  
David Gasela  
Bill Hemsley  
Don Lee  
Hampik Dekermenjian  
Larry McKenney  
Rich Haller  
Karen Williams  
Mark Norton  
Dean Unger  
David Ruhl  
Jeff Beehler  
Carlos Quintero  
Rick Whetsel  
Pete Vitt  
Dawna Munson

Inland Empire Utilities Agency  
Orange County Water District  
San Bernardino Valley MWD  
Western Municipal Water District  
Western Municipal Water District  
Inland Empire Water Agency  
OCS D  
San Bernardino Valley Water Conservation District  
City of Riverside  
City of Yucaipa  
Tetra Tech  
CDM Smith  
SAWPA  
SAWPA

The Commission Meeting of the Santa Ana Watershed Project Authority was called to order at 9:34 a.m. by Chair Terry Catlin at the Santa Ana Watershed Project Authority Office, 11615 Sterling Avenue, Riverside, CA 92503. Chair Catlin led the flag salute. Chair Catlin called for public comments; however, no comments were received.

### **SPECIAL RECOGNITION - SERVICE PIN AWARDS**

Celeste Cantú presented SAWPA service pin awards for the period of July through December 2012 to the following recipients: Pete Vitt, fifteen years of service, and Rick Whetsel, ten years of service. She congratulated them both and thanked them for their service.

### **SPECIAL COMMENDATORY PRESENTATION TO COMMISSIONER GEORGE AGUILAR**

Chair Catlin, accompanied by all the Commissioners and Celeste Cantú, presented Commissioner George Aguilar with a commendatory resolution, and thanked him for his four years of service on the SAWPA Commission. Commissioner Aguilar commented how SAWPA always is open to trying new ideas and making things happen, and that it has greatly opened up the lines of communication between agencies. The Commissioners extended their good wishes to George Aguilar.

**NEW BUSINESS**

**RATIFICATION OF THE OWOW 2.0 PROJECT PORTFOLIO FOR ROUND 2 FUNDING (CM#8705)**

Jeff Beehler reviewed the Round 2 funding process and how the online form was developed with tools to enter and crosscheck projects, and how the Project Ranking Committee (PRC) had been formed to carefully vet the projects and prepare the project ranking portfolio for the Commission’s review. He reviewed the adopted ranking process, the set-aside project funding criteria, and the project criteria weights.

Hampik Dekermenjian of CDM Smith (CDM) then explained the criteria rating and ranking process relative to the performance rating, the project scores, and the project total score for ranking. He next discussed the individual criteria of: 1) improve water reliability; 2) improve water quality and salt balance in the watershed; 3) manage flood waters through preservation and restoration of natural hydrology; 4) reduce greenhouse gas emissions from water management activities; and 5) cost effectiveness, which had five categories within it. Upon receiving the verified data from SAWPA, CDM ran it through the data model.

Celeste Cantú said that the members of the Project Ranking Committee—Pete Silva, Gerry Thibeault, and Joe Grindstaff—had thoroughly interviewed the top 35 applicants and vetted each project, not only quantitatively, but in a qualitative way as well. They took into consideration their collaboration with partners and the synergies that resulted from that collaboration, and what was happening in the background environment and surrounding areas. They made a qualitative decision as to which projects are the very best choices for this watershed in order to maximize the benefits throughout the watershed. They identified the most essential projects and then matched the available dollar amounts to those projects; hence the portfolio presented to the Commission representing a tremendous amount of benefits. She discussed a few of the exceptional projects and briefly reviewed the three conditions the PRC recommended for the projects of the Quail Valley Sewer System, the Corona/Home Gardens Well, and Monte Vista Water District’s Budget-Based Tiered Rate Structure Improvement. A map was displayed showing the benefit zones of the projects recommended for funding.

Jeff Beehler said that the funding recommendations and information were posted, and a public hearing was held a week prior to the Steering Committee meeting. The information from the hearing was forwarded to the Steering Committee, and then another public hearing was held at the Steering Committee meeting where they received more comments. The Steering Committee recommends moving forward with staff’s recommendation to ratify the OWOW 20 Project Portfolio for Round 2 funding.

Commissioner Aguilar commended staff, the three consultants on the PRC, and the Steering Committee for their hard work to assure that the process was fair and that the projects truly would help the watershed as a whole. Commissioner Anthony concurred.

Upon motion by Commissioner Aguilar, seconded by Commissioner Anthony, the motion unanimously carried:

**12-12-01**

**MOVED**, approval to ratify the OWOW 2.0 Project Portfolio for Round 2 funding.

**AMEND THE OWOW PLAN TO INCLUDE THE UPDATED PROJECT LIST (CM#8706)**

Jeff Beehler said that an important step to the OWOW process and to those interested in receiving funding this round is to amend the OWOW Plan to include the updated project list. The Commission is being asked to ratify the Steering Committee’s decision to amend the OWOW Plan to include this updated list. This amendment also allows those that are recommended for funding to move forward with their applications to the DWR.

Upon motion by Commissioner Galleano, seconded by Commissioner Anthony, the motion unanimously carried:

**12-12-02**

**MOVED**, approval to ratify the OWOW Steering Committee's decision to amend the OWOW Plan to include the updated project list.

**OCSD AUDIT OF BRINE LINE PRETREATMENT PROGRAM (CM#8707)**

Celeste Cantú informed the Commission that staff has a slightly amended recommendation for this item. Staff had expected to receive the Pretreatment Remedial Plan from OCSD, which has been agendaized for their Board meeting tomorrow night. As it hasn't yet been provided, the recommendation for today is revised to:

1. Approve Task Order No. DUDK240-02 with Dudek Engineering and Environmental in an amount not-to-exceed \$60,000 to evaluate the organizational and procedural options for SAWPA's implementation of the Pretreatment Program.
2. Direct Staff to continue to meet with the Pretreatment Program Working Group, and:
  - a. review in detail and identify specific program deficiencies identified in the final audit, and identify corrective actions;
  - b. review the recommendations and requirements of the OCSD audit and pending Remedial Plan; and
  - c. develop the final scope and tasks for the Dudek study based upon this review and the agreement of the Pretreatment Program Working Group, and direct Dudek to proceed with the refined scope of work.
3. Defer consideration of the authorization for the Manager of Permitting and Pretreatment position until the final recommendations from the Dudek study are completed.
4. Direct staff to prepare a letter to OCSD acknowledging that SAWPA and its members intend to proactively address the issues identified in the final audit and the Remedial Plan.

Rich Haller asked OCSD representative Tom Gaworski if there was any further status on the Remedial Plan. Mr. Gaworski replied that upper management is working on the plan and there is nothing being hidden, but it is more a matter of timing. They had one week less time between Board meetings, and the agenda report was due the next week after the last Board meeting; so, they put together the agenda and they're working on the plan at this point. He added that they may finish it up right before the meeting, but he didn't have any further information about it.

Commissioner Sullivan commented that as public agencies, we're all trying to move things forward in the best possible way, and there's probably some angst on both sides, but this is a partnership and a business relationship. He expressed deep concerns about the document being prepared without input from SAWPA, and that he hoped that the OCSD Board "...would at least give us the opportunity to see how much of it we agree with—and we may agree with all of it—but we need to have that opportunity." He added that SAWPA is desperately trying to improve the working relationship with OCSD, and hopes that OCSD is trying to repair its relationship with SAWPA, because these are both public agencies being funded by taxpayers. This working relationship must be acknowledged. He further commented that some deficiencies about SAWPA's Pretreatment Program were pointed out that SAWPA hasn't denied; so for OCSD to bring up the document at the last minute is not reasonable.

Tom Gaworski responded that the OCSD Board made comments to the Remedial Plan when they read it, and then directed staff to start putting something together quickly. They didn't want to wait until January to begin the process; they wanted to get it started as quickly as possible. He further pointed out that we're at this juncture because of some failure by SAWPA in terms of the agreement's scope, and so he didn't want to hear any more about trying to work together as a member agency. He said he'd be happy to talk to anyone when this is over if they wanted more details.

Commissioner Sullivan commented that as it is not all one-sided, it's unfortunate that this type of attitude prevails, and thus an adversarial relationship continues. A brief discussion ensued about the depth and potential alleviation of discord between the two agencies.

Celeste Cantú said that SAWPA has been working through a draft audit, and has held several meetings with our member agencies. A pretreatment working group was assembled and they've met twice; once in person and once by conference call. So no time has been wasted, but we don't have a final document yet.

Chair Catlin added that staff has a full understanding of the draft that OCSD has developed, but we have not seen the final, and it's disappointing that we have not seen the Remedial Plan.

Upon motion by Commissioner Aguilar, seconded by Commissioner Anthony, the motion unanimously carried:

**12-12-03**

**MOVED**, approval and:

1. Authorized Task Order No. DUDK240-02 with Dudek Engineering and Environmental in an amount not-to-exceed \$60,000 to evaluate the organizational and procedural options for SAWPA's implementation of the Pretreatment Program.
2. Directed staff to continue to meet with the Pretreatment Program Working Group, and:
  - a. review in detail and identify specific program deficiencies identified in the final audit, and identify corrective actions;
  - b. review the recommendations and requirements of the OCSD audit and pending Remedial Plan; and
  - c. develop the final scope and tasks for the Dudek study based upon this review and the agreement of the Pretreatment Program Working Group, and direct Dudek to proceed with the refined scope of work.
3. Deferred consideration of the authorization for the Manager of Permitting and Pretreatment position until the final recommendations from the Dudek study are completed.
4. Directed staff to prepare a letter to OCSD acknowledging that SAWPA and its members intend to proactively address the issues identified in the final audit and the Remedial Plan.

**INLAND EMPIRE BRINE LINE REACH V (CM#8699)**

David Ruhl reviewed some background of how the Reach V pipe was out of shape, and the initiated recommendations. Since that time, three access points for CCTV were added, extensive potholing was done and five test pits were constructed and helped determine if the pipe is oval. All the information was brought before an expert panel who determined the likely cause of the pipe failure, evaluated the repair/replacement, and they developed a list of recommended actions. He briefly reviewed the causes of the pipe failure and the recommendations. Based on the conditions recommended by the expert panel, they plan on requesting proposals from engineering firms for the recommended work, including a risk assessment, a surge analysis, defining limits of the work, recommending appropriate repair/replacement methods, and preparing construction cost estimates.

Upon motion by Commissioner Galleano, seconded by Commissioner Anthony, the motion unanimously carried:

**12-12-04**

**MOVED**, approval and directed staff to release a Request for Proposals for engineering services for the Inland Empire Brine Line Reach V Pipeline Condition Study.

**OLD BUSINESS**

None

**CONSENT CALENDAR**

Upon motion by Commissioner Aguilar, seconded by Commissioner Anthony, the motion unanimously carried:

**12-12-05**  
**MOVED**, approval of the Consent Calendar.  
  
A. The Commission approved the Minutes from the meeting held on 11-20-12.  
B. The Commission approved the Treasurer’s Report –November 2012.

**INFORMATIONAL REPORTS**

The following oral/written reports/updates were received and filed.

- A. Cash Transactions Report
- B. Inter-Fund Borrowing – September 2012 (CM#8703)
- C. Performance Indicators and Financial Reporting – September 2012 (CM#8692)
- D. General Manager’s Report  
Celeste Cantú distributed the 2013-2014 congressional maps to the Commissioners for their use.
- E. Chair’s Comments/Report
- F. Commissioners’ Comments  
Commissioner Aguilar said that it has been a pleasure serving on the SAWPA Board, particularly with this staff. He is very proud of this agency and all of the Commissioners, and wished everyone the best of luck. Each of the Commissioners thanked Commissioner Aguilar as well.

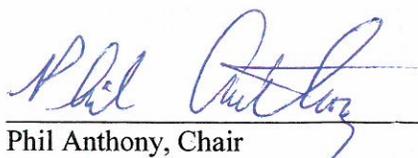
**CLOSED SESSION**

The Commission went into Closed Session at 10:49 a.m., A) pursuant to Government Code Section 54956.9 (a) Conference with Legal Counsel – Existing Litigation: Castle and Cook, Case No. RIC 495874, and B) OCSD Arbitration.

The Commission reconvened into Open Session at 11:19 a.m. Larry McKenney stated that the Commission took no reportable action.

As there was no further business for review, Chair Catlin adjourned the meeting at 11:22 a.m.

**APPROVED:**  
January 15, 2013

  
\_\_\_\_\_  
Phil Anthony, Chair

SCANNED

## **Eligible Applicant Documentation**

The submitting entity is the Santa Ana Watershed Project Authority, a local agency. By authorization of the Steering Committee of the Santa Ana River Watershed "One Water One Watershed" Integrated Regional Water Management Plan and the governing board of the Santa Ana Watershed Project Authority. This submittal is representing the Santa Ana River Watershed area, also known as the Santa Ana Sub Region Funding Area, as defined in the State Proposition 84 Chapter 2 IRWM program

The Santa Ana Watershed Project Authority (SAWPA) was selected as the Regional Water Management Group (RWMG) for the Santa Ana Watershed. SAWPA was established as a joint powers authority (JPA) on December 6, 1974 under Article 1, Chapter 5, Division 7, Title 1 of the Government Code of the State of California. As stated in the founding joint powers exercise of agreement, SAWPA was formed as a *"public agency to undertake and implement the common power of undertaking projects for water quality control, and protection and pollution abatement in the Santa Ana River Watershed, including the development of waste treatment management plans for the area within the Santa Ana Watershed and construction, operation, and maintenance of works and facilities for collection, transmission, treatment, disposal, and/or reclamation of sewage, wastes, waste waters, poor quality groundwaters, and storm waters by utilizing funds contributed by the members and grants received from Federal and/or State government and by issuing bonds, notes, warrants, and other evidences of indebtedness to finance costs and expenses incidental to said projects."*

The parties of the JPA are Orange County Water District, Inland Empire Utilities Agency, Western Municipal Water District, Eastern Municipal Water District, and San Bernardino Valley Municipal Water District. SAWPA has legal authority to enter into agreements with the State of California.

### **Groundwater Management Plan Compliance**

The following project proponents have groundwater projects or other projects that directly affect groundwater levels or quality:

Project Title	Lead Agency	
<b>Perris Desalination Program - Brackish Water Wells 94, 95 and 96</b>	Eastern Municipal Water District	applicant has prepared and implemented a GWMP that is in compliance with CWC §10753.7
<b>Quail Valley Subarea 9 Phase 1 Sewer System Project</b>	Eastern Municipal Water District	applicant has prepared and implemented a GWMP that is in compliance with CWC §10753.7
<b>Wineville Regional Recycled Water Pipeline and Groundwater Recharge System Upgrades</b>	Inland Empire Utilities Agency	Subject to Chino Basin Water Master and participates in OBMP that is in compliance with CWC §10753.7
<b>Plunge Creek Water Recharge and Habitat Improvement</b>	San Bernardino Valley Water Conservation District	Participates in Upper Santa Ana River Watershed IRWM that is in compliance with CWC §10753.7
<b>Prado Basin Sediment Management Demonstration Project</b>	Orange County Water District	applicant has prepared and implemented a GWMP that is in compliance with CWC §10753.7
<b>San Sevaine Ground Water Recharge Basin</b>	Inland Empire Utilities Agency	Subject to Chino Basin Water Master and participates in OBMP that is in compliance with CWC §10753.7
<b>Corona/Home Gardens Well Rehabilitation and Multi-Jurisdictional Water Transmission Line Project</b>	City of Corona Department of Water & Power	applicant has prepared and implemented a GWMP that is in compliance with CWC §10753.7
<b>Enhanced Stormwater Capture and Recharge along the Santa Ana River</b>	San Bernardino Valley Municipal Water District	Participates in Upper Santa Ana River Watershed IRWM that is in compliance with CWC §10753.7
<b>14th Street Groundwater Recharge and Storm Water Quality Treatment Integration Facility</b>	City of Upland Water Department	Subject to Chino Basin Water Master and participates in OBMP that is in compliance with CWC §10753.7
<b>Vulcan Pit Flood Control and Aquifer Recharge Project</b>	City of Fontana	Subject to Chino Basin Water Master and participates in OBMP that is in compliance with CWC §10753.7
<b>Francis Street Storm Drain and Ely Basin Flood Control and Aquifer Recharge Project</b>	City of Ontario	Subject to Chino Basin Water Master and participates in OBMP that is in compliance with CWC §10753.7
<b>Peters Canyon Channel Water Capture and Reuse Pipeline</b>	City of Irvine	Participates in OCWD GWMP that is in compliance with CWC §10753.7
<b>Wilson III Basins Project and Wilson Basins/Spreading Grounds</b>	City of Yucaipa	Participates in Upper Santa Ana River Watershed IRWM that is in compliance with CWC §10753.7

## **Progress on Meeting Current IRWM Plan Standards**

The OWOW Plan, the IRWM Plan for the Santa Ana Region, was submitted for review as part of SAWPA's Round 1 application.

### **Governance**

The One Water One Watershed planning process is overseen by a Steering Committee consisting of two SAWPA Commissioners (water agency representatives), three Mayors (one per County), three County Supervisors (one per county), and a representative from the business and environmental communities. The Steering Committee oversees planning functions and project selection for the IRWM process. The SAWPA Commission is responsible for ensuring that the decisions of the Steering Committee are consistent with State guidelines, that decisions are consistent with OWOW goals and objectives and that the stakeholder community was represented in the decision making process.

In order to ensure that representatives from general service government were chosen on a regional basis the appointing body for city elected Steering Committee representatives was changed from the League of Cities, an organization that not all cities are members, to the local Council of Government (COG). In addition, for continuity in planning and project implementation a seated member of the Steering Committee was able to continue in their position even if they lost their public office through the remainder of their Steering Committee term or until such time that their appointing agency identifies a new representative.

The Planning Area or Planning Pillar Structure was also modified to more closely align with specific water management areas. Rather than have one volunteer group chair, the Steering Committee appointed co-chairs to increase the probability that these independent planning groups would attract a wider audience of experts to complete initial resource needs analyses. The new Pillar groups are as follows: Water Resource Optimization, Beneficial Use Assurance, Water Use Efficiency, Low Impact Development Planning (later changed by the Pillar group to Land Use and Water Planning), Multi-Hazard Preparation, Natural Resources Stewardship, Operational Efficiency and Water Transfers, Disadvantaged and Tribal Community Resources, Government Partnerships, and Energy and Environmental Impact Response.

### **Region Description**

No, the region description has not changed significantly. However, at the request of the Steering Committee and the SAWPA Commission, the planning area has expanded greatly from the area within agency service areas to include areas managed by the US Forest Service, Bureau of Land Management and the California Department of Forestry. SAWPA entered into an MOU Agreement with the US Forest Service to address issues and develop projects around resource management in the forest headwaters to enhance both the quality and quantity of water available downstream. The Commission directed staff to include forest areas in their planning efforts and form a specific OWOW working group, Forest First, for that purpose.

### **Objectives**

No, the goals and objectives established in the OWOW plan have remained the same. The weighting of those goals from those weighted toward water supply to an equal weighting of goals was employed in a recent revised call for projects. An equal weighting in ranking criteria, resulted in more balanced integrated projects being weighted more highly.

The goals and objectives were also incorporated into specific, data-linked performance measures that will be used for determining how well the Santa Ana River Watershed meets the integrated goals and objectives.

### **Resource Management Strategies**

The Pillar Structure used in the update of the Santa Ana Watershed's IRWM plan update will ensure that statewide Resource Management Strategies relevant to the region are addressed.

Reduced water demand is the primary planning function of the water use efficiency planning pillar. One co-chair is an established leader in urban water use efficiency and has been working on an urban water use efficiency guide book for the general public. The other co-chair is the Executive Director of the San Bernardino Form Bureau and is focused on water- savings in agriculture production in commodities produced within the water shed.

Improved Operational Efficiency and Transfers will be addressed by the operational Efficiency and water transfer pillar through water Integration Nexus study where regional water needs are aligned with regional, within water shed assets. The goal of this group is to decrease Delta dependency at a local/regional level.

Increased Water Supply is addressed by the Water Supply reliability pillar. The group is working on a regional portfolio based on increased recycling/ reuse conjuncture use, storm water capture, brackish ground water desalination. The beneficial use assurance pillar is because on drinking water quality, ground water remediation, salinity and other pollutants management while the land use and water pillar has been focused on urban runoff management.

The Natural Resources Management Pillar has been primarily focused on work related in the practice of Practicing Resources Stewardship. The group has been focused on Ecosystem restoration, forest management, especially via the new Forest First program, recharge area protection and water-dependent recreation.

The Multi-Hazard Preparation Pillar is working to align adequate Flood Risk Management, including consideration of a changing climate, to other functions, such as water quality, habitat, recharge, and water-based recreation.

## **Integration**

The basic premise of the updated IRWM Plan for the Santa Ana Region is that integrated projects are more cost effective, leverage resources and provide the maximum public benefit with the minimum environmental impacts. The Pillar Leaders as part of the plan update participated in a series of facilitate workshops with three water experts to frame the watershed from their own subject area perspective and then look for areas of overlap. These areas of overlap became the framework for a "white paper" document that outlined 13 regional, integrated project concepts. The "white paper" also identified and outlined strategies to overcome barriers associated with implementing integrated projects.

Using this work as a basis, individual pillar groups are reassessing the current watershed resources and as part of their updated work, producing recommendations for specific integrated projects. These recommendations also have identified beneficiaries or "champions". This process has already produced a project team that successfully developed a project concept for this round of funding, the Forest First pilot project. In addition, the project ranking algorithm used in the initial project list and the revised scoring tool used in updating the project list, result in higher scores for integrated projects, with the highest scores going to integrated projects that also mitigate green house gas emissions. In the most recent update of the project list, five project criteria (improved water reliability, improved water quality, flood water management through restoration of natural hydrology, greenhouse gas emissions, and cost effectiveness) were weighted equally resulting in a project list that is weighted heavily toward integrated projects.

## **Project Review Process**

The integrated approach with equally weighted criteria includes criteria for greenhouse gas emissions. The ranking system favors local projects that further develop regional resources such as storm water capture, water quality enhancement, and more efficient use of current water resources. As greenhouse gas emissions, are specifically considered in ranking the water portfolio for the Santa Ana region will likely be less carbon intense over time. As cost effectiveness is also a ranking and energy cost is linked to water, less energy intensive solutions are also most favored.

The most recent ranking of project ranked highly, and SAWPA is recommending, a specific project that will address sea level rise and the protection of groundwater resources.

### **Technical Analysis**

Yes, the updated OWOW 2.0 Plan has identified a number of data gaps in regards to current information on water supply and demand and has used the feedback from all major water supply agencies in the watershed to address this data gap. Since the OWOW 1.0 plan, a new US Census was completed which provides extensive population and demographic data that will now be incorporated into the technical analysis of the updated plan. Urban Water Management Plans (UWMPs), due every five years to DWR, have also been completed through 2010 from all major water suppliers so these plans will be incorporated. Updates to sub regional integrated regional water management plans such as the Central Orange County Sub regional Integrated Plan were completed since the OWOW 1.0 adoption and will be incorporated. Any updates to the ACOE and three County flood control master plans will be compiled and used as references particularly for use in examining flood risk.

### **Relation to Local Water Use Planning**

The adopted OWOW 1.0 plan met the DWR IRWM Plan Standards, however since OWOW 1.0 adoption, changes have occurred with multiple local water plans that will now be incorporated in the OWOW 2.0 Plan. As previously stated, Urban Water Management Plans (UWMPs), which play a significant role in determining the planned water demand and water supply for the next 20 years, were updated as of 2010. These UWMPs from water agencies throughout the watershed have been compiled and evaluated as part of our OWOW Water Resource Optimization Pillar to examine demands and supplies for the region as a whole.

The majority of the work of coordinating the IRWM plans and local water use planning is being undertaken by the OWOW pillar workgroups which have compiled pertinent documents as they relate to the pillar focus. For example, the Operational Efficiency and Water Transfer Pillar conducted an in depth analysis of pertinent water supply and demand plans in each of the SAWPA member agencies and the three County flood control agencies and will be describing these documents in the IRWM plan. The Land Use and Water Planning Pillar has compiled local and state LID manuals including those from other IRWM regions to evaluate priorities needs and incentivize multi-beneficial implementation projects and programs. The Stormwater Capture and Flood Risk Pillar has gathered stormwater management plans, emergency response and disaster plans and flood protection plans to evaluate new opportunities to respond to regional needs collaboratively and effectively with new more regional multi-beneficial and multi-jurisdictional types of implementation projects and program. Each of the other pillars has some nexus to water planning and is compiling the updated reports that relate to their pillars.

### **Relation to Local Land Use Planning**

The previously 2010 adopted OWOW 1.0 plan kicked off the coordination with local land use planning, however, with more interest and involvement, the updated SAWPA IRWM Plan called OWOW 2.0 Plan will even more effectively encourage the exchange of knowledge and expertise between land use and water resource managers. The new pillar workgroup composed of developers, city planning staff, county planning staff, Caltrans planning, engineering firm consultants and other interested parties has been meeting monthly for over a year. New concepts and ideas have been discussed to achieve greater integration and collaboration between City and County planners and the water planners and management in the watershed. General plans of multiple cities have been examined to determine whether a water component has been incorporated or can be in the future. The pillar group has evaluated and examined what processes the cities and counties go through to deal with current legislation and government code regarding land use and water planning including SB 221, SB 610, and General Plan Guidelines. New educational programs have been discussed and are being explored to teach the engineering community, developers, and planners about new MS4 permits that required LID practices and how these relate to water supply and water quality improvement.

### **Stakeholder Involvement**

The OWOW 1.0 Plan met the requirements for stakeholder involvement as defined by the DWR IRWM guidelines. However, recognizing that more can be done, the OWOW 2.0 plan will expand our stakeholder involvement even further in a number of areas:

- 1) DACs. By our contracting with the Bureau of Reclamation, a subcontract with an outreach expert was undertaken to conduct even more extensive outreach program with disadvantaged communities with

- bilingual technical support to identify areas of critical water supply and water quality challenges. Six additional disadvantaged communities from the original OWOW 1.0 have been contacted to determine their needs. An extensive report about the expanded outreach will be included in the updated IRWM report.
- 2) Native American Tribes. By our contracting with the Bureau of Reclamation and utilizing their long term relationships with local Native American Tribes, an extensive outreach program has been undertaken to encourage tribal involvement which have included visits to tribes to evaluate and assist with identification of water supply and water quality challenges. Environmental justice issues have also been identified and a targeted approach to encourage involvement of the tribes has been undertaken.
  - 3) Watershed Stakeholders. Multiple workshops and conferences have been conducted to encourage stakeholders throughout the watershed to become involved in the pillar groups of interest to them. The outreach has now been expanded to reach over 2500 people. Those contacted include wholesale and retail water agencies, wastewater agencies, flood control agencies, city and county governments, electrical corporations and coalitions, environmental stewardship organizations, community organizations, industry organizations, State, Federal and other regional government representatives, and universities.

## **Coordination**

SAWPA recognized the need for increased coordination under its OWOW 1.0 and is reaching even more now to our watershed stakeholders and neighboring IRWM regions to increase coordination and collaboration as part of the OWOW 2.0 planning effort. For coordination within the watershed, improvements have been made to the SAWPA website to enhance outreach particularly in areas to assist with Prop 84 IRWM Implementation - Call for Projects and rating and ranking. Pillar workgroups have been restructured based on need and to even more interested parties to become involved in the IRWM planning process. Multiple workshops and conferences have been held to encourage stakeholders about OWOW 2.0 planning, development of new projects and funding opportunities.

The OWOW 2.0 plan has increased coordination with neighboring IRWM regions to a much greater degree as well. For example, the Coachella Valley IRWM has been visited on multiple occasions on discussion of a trans-regional brine disposal pipeline option that could assist their region as well as the Salton Sea. The brine disposal pipeline investigation includes the involvement of the US Bureau of Reclamation and multiple stakeholders. To address water needs in San Bernardino County, SAWPA has worked closely with Mojave Water Agency on a County led water needs assessments. SAWPA was invited by the Upper Santa Margarita IRWM to participate on a review panel for the selection of a consultant to prepare their IRWM Plan update. SAWPA has had discussions with the Greater LA on DAC support. We have also been very active in assisting other IRWMs across the State as a participant in Roundtable of Regions and as a member of the IRWM Focus Group working on the Strategic Plan for the Future of IRWM in CA.

In relation to coordination with other agencies, one of our most productive and newly established pillar workgroups under OWOW 2.0 has been our Government Partnerships pillar. This pillar is chaired by a representative from the US Bureau of Reclamation and includes representatives from multiple States, federal and local agencies including the US Bureau of Reclamation, US Fish and Wildlife, ACOE, CA Dept of Fish and Wildlife, DWR, and Regional Water Quality Control Board. The pillar has worked on the creation of a manual that will assist in greater collaboration and coordination so that permitting and implementation can be streamlined and become more efficient.

## **Climate Change**

The updated IRWM Plan for the Santa Ana Watershed called OWOW 2.0 Plan will contain a climate change vulnerability assessment of the IRWM region that is at least equivalent to the qualitative check list assessment in the Climate Change Handbook for Regional Water Planning (Handbook), a list of prioritized vulnerabilities derived from the vulnerability assessment and the IRWM's decision making process and a methodology for further data gathering/analyzing of the prioritized vulnerabilities. To accomplish this under OWOW 2.0, SAWPA is partnering with the US Bureau of Reclamation to create a state-of-the-art climate change assessment and analysis for the Santa Ana region. A pillar work group called Energy and Environmental Impact Response Pillar is working closely with the Bureau and SAWPA staff to assure all the climate change requirements that defined by DWR IRWM Plan Standards are met. Further, new tools are being developed that will allow water

managers to evaluate greenhouse gas emissions at the agency level as well as the project level that ultimately can be shared with other IRWMs across the state.

## **Project Consistency with an adopted IRWM Plan**

All projects included in this project portfolio are found in the adopted One Water One Watershed Plan and have been part of an objective ranking process described in the plan. These include projects from Twenty lead agencies from across the region who will be constructing projects that when complete will improve the water, flood and habitat resources for the Santa Ana River Watershed. The portfolio provides water use efficiency, enhanced groundwater recharge, integrated flood control/habitat benefits, non-point source pollution reduction, salt removal from local aquifers, and assistance to disadvantaged communities.

Stormwater/Recycled Water Projects include:

- Project D: Wineville Regional Recycled Water Pipeline and Groundwater Recharge System Upgrades (Inland Empire Utilities Agency)
- Project E: Plunge Creek Water Recharge and Habitat Improvement (San Bernardino Valley Water Conservation District)
- Project G: San Sevaine Groundwater Recharge Basin (Inland Empire Utilities Agency)
- Project I: Enhanced Stormwater Capture and Recharge along the Santa Ana River (San Bernardino Valley Municipal Water District)
- Project L: 14th Street Groundwater Recharge and Stormwater Quality Treatment Integration Facility (City of Upland)
- Project N: Vulcan Pit Flood Control and Aquifer Recharge Project (City of Fontana)
- Project O: Francis Street Storm Drain and Ely Basin Flood Control and Aquifer Recharge Project (City of Ontario) Project
- S: Recycled Water Project Phase I, Arlington-Central Avenue Pipeline (City of Riverside)
- Project T: Wilson III Basins Project and Wilson Basins/Spreading Grounds (City of Yucaipa)

Water Quality Improvement Projects include:

- Project A: Perris Desalination Program – Brackish Water Wells 94, 95 and 96 (Eastern Municipal Water District)
  - Project F: Prado Basin Sediment Management Demonstration Project (Orange County Water District)
  - Project H: Corona/Home Gardens Well Rehabilitation and Multi-Jurisdictional Water Transmission Line Project (City of Corona)
  - Project K: Canyon Lake Hybrid Treatment Process (Lake Elsinore San Jacinto Watershed Authority)
  - Project Q: Peters Canyon Channel Water Capture and Reuse Pipeline (City of Irvine)
- Contaminated Groundwater Recovery and Salt Removal Projects include:

Water Conservation/ Water Use Efficiency Projects include:

- Project J: Regional Residential Landscape Retrofit Program (Inland Empire Utilities Agency)
- Project M: Customer Handbook to Using Water Efficiently in the Landscape (Western Municipal Water District)
- Project P: Commercial/Industrial/Institutional Performance-Based Water Use Efficiency Program (Metropolitan Water District of Orange County)

Water Improvement through Ecosystem Restoration Projects include:

- Project C: Forest First – Increase Stormwater Capture and Decrease Sediment Loading through Forest Ecological Restoration (US Forest Service)

Projects to support Disadvantaged Communities include:

- Project B: Quail Valley Subarea 9 Phase 1 Sewer System Project (Eastern Municipal Water District)

Projects to support Native America Tribal communities include:

- Project R: Soboba Band of Luiseño Indians Wastewater Project (Soboba Tribe)