

**City/County Water and Wastewater Study Oversight Committee  
Phase 2 Schedule**

<b>Meeting Date/Location</b>	<b>Report Posted on-line</b>	<b>Meeting Time</b>	<b>Topic</b>
Thursday, <b>March 19, 2009</b> City of Tucson 481 W. Paseo Redondo, Pueblo Conference Room Tucson, Arizona 85701	03/05/09	5 pm- 9 pm	Adaptive Management: <ul style="list-style-type: none"> <li>• Drought Planning</li> </ul>
Thursday, <b>April 23, 2009</b> Tucson Association of Realtors (TAR) 2445 N. Tucson Blvd Tucson, Arizona 85716	04/09/09	5 pm-9 pm	Adaptive Management: <ul style="list-style-type: none"> <li>• Reclaimed Water</li> <li>• Water Conservation (2 reports)</li> </ul>
Thursday, <b>May 21, 2009</b> Randolph GC Clubhouse, Copper Room 600 S. Alvernon Way Tucson, Arizona 85730	05/07/09	5 pm-9 pm	Comprehensive Planning/Environment <ul style="list-style-type: none"> <li>• Environmental Needs for Water Series (3 reports)</li> <li>• Economic Needs for Water</li> </ul>
Thursday, <b>June 25, 2009</b> Randolph GC Clubhouse Randolph GC Clubhouse, Copper Room 600 S. Alvernon Way Tucson, Arizona 85730	06/11/09	5 pm-9 pm	Comprehensive Planning/Environment <ul style="list-style-type: none"> <li>• Water/Wastewater Cost of Growth Assessment</li> <li>• Location of Growth, Urban Form, &amp; cost of Infrastructure</li> </ul>
Thursday, <b>July 16, 2009</b> Tucson Association of Realtors (TAR) 2445 N. Tucson Blvd Tucson, Arizona 85716	07/02/09	5 pm-9pm	Comprehensive Planning/Environment <ul style="list-style-type: none"> <li>• Integrating Land Use Planning with Water Resources and Infrastructure</li> </ul>
Thursday, <b>August 20, 2009</b> Tucson Association of Realtors (TAR) 2445 N. Tucson Blvd Tucson, Arizona 85716	08/06/09	5 pm-9 pm	Additional Water/Environment <ul style="list-style-type: none"> <li>• Additional Water Resources</li> <li>• Water Quality</li> </ul>

## City/County Water and Wastewater Study Phase 2 Technical Paper Descriptions

### MARCH 19 MEETING

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#### **City and County Drought Plans** – *Lead: City/County staff*

Analyze existing drought management plans of the City and County and identify opportunities for increased consistency and improved drought preparedness. Review other drought planning efforts going on and how the City and County plans fit within and can coordinate with other efforts.

### APRIL 23 MEETING

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#### **Reclaimed Water System Expansion** – *Lead: City/County Staff*

Provide an inventory of the existing reclaimed system and the reclaimed water resources being used in the context of total effluent discharge. Describe how the current system has been paid for, who the customers are, and how ongoing operation is funded. Describe future needs for and uses of effluent and reclaimed resources including turf/golf, environmental, and aquifer augmentation, discuss prioritization considerations, potential markets, barriers to system expansion, and financing options.

#### **City and County Conservation Efforts** - *Lead: City/County Staff*

Inventory existing and planned City and County conservation efforts. Identify opportunities to develop consistent water conservation standards, programs, and ordinances. Recommend specific short-term and long-term strategies for developing consistent City and County water conservation standards. This effort should be informed by and build upon current conservation program planning efforts of the City and County.

#### **External Conservation Perspective** – *Lead: Water CASA*

The Water Conservation Alliance of Southern Arizona (Water CASA) will look at current trends in water conservation tools and water use within the region, the state, the Colorado River Basin, as well as examples of successful water conservation in the international community that might be applicable to southern Arizona. For each tool, they would discuss effective implementation, costs, and what contribution the program can make to conserving water.

## MAY 21 MEETING

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### **Environmental Needs for Water Series:** *Lead: City/County staff*

#### *Stormwater Harvesting for Environmental Purposes*

The goal of this report is to identify recommendations for how to best use rainwater and stormwater as a supplemental water source in large scale developments and/or, undeveloped areas of Pima County. In this report, stormwater harvesting and management refers to the capture and recharge of stormwater for “new” beneficial uses such as multi-purpose environmental restoration, recreation, and recharge. Key content elements of this report include legal issues, geologic and climatic factors that affect capturing runoff; regional storm water recharge techniques and studies; existing projects (e.g. KERP, Arroyo Chico); and existing and future opportunities for detention basin storage and release; neighborhood storm water uses; individual lot landscape standards; water quality issues; and, identification of opportunities, constraints and recommendations.

#### *Environmental Restoration*

The goal of this report is to identify how to best use stormwater, effluent and reclaimed water for environmental restoration benefits. It focuses on areas of future environmental restoration in proximity to existing water supply sources. It will include an inventory of city and county restoration projects, existing water demand estimates and actual water consumption and estimates of potential future demand.

#### *Riparian Protection and Enhancement*

The goal of this report is to identify strategies that can be implemented locally to reduce negative impacts of groundwater pumping on environmentally sensitive ecosystems (e.g. buying / retiring exempt wells; purchasing water rights; wheeling water; land use restrictions; getting people on renewable supplies). This paper is regional in scope taking into consideration groundwater sensitive ecosystems not in proximity to existing water supply sources yet potentially threatened by groundwater withdrawals. The report will update the he 2000 SDCP report “Water Usage Along Selected Streams in Pima County” which includes an inventory and map of exempt wells and groundwater dependent ecosystems such as the Tanque Verde area, Cienega Creek, Arivaca / Sopori Wash, and the San Pedro. City/County programs to acquire and preserve open space and to preserve existing riparian areas including the effluent dominated portion of the Santa Cruz River will also be addressed.

### **Economic Needs for Water** *Lead: Tucson Regional Water Coalition*

This paper will discuss how water relates to a healthy economy, discuss the economic value of water, and address what different industries/sectors use and what is the return on investment.

## JUNE 25 MEETING

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### **Water/Wastewater Cost of Growth Assessment** – *Lead: City/County Staff*

This paper will assess each of the utilities financial structures relative to the goal of “growth paying for itself”.

### **Location of Growth, Urban Form & Cost of Infrastructure** – *Lead: City/County Staff, Consultant assistance by Stantec/CLA*

The paper will identify criteria that can be used to identify areas most suitable for future development, discuss urban form and its affect on infrastructure costs and other factors, and will calculate build-out scenarios. It will identify opportunities for updates to the City & County Comp/General Plans; make recommendations on City/County agreement related to location of growth and urban form, and identify tools for implementation such as incentives and cost allocation to direct growth to appropriate locations. This paper will focus on City limits, the Tucson Water obligated service area, and unincorporated Pima County.

## JULY 16 MEETING

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### **Integrating Land Use Planning with Water Resources and Infrastructure** – *Lead: City/County Staff*

This paper will examine the connection between water resources and the location of development, particularly focusing on the pumping imbalance created by the CAGR. It will document where withdrawals occur and where replenishment occurs, describe the Pima County Comprehensive Plan Water Element, discuss the Tucson Water obligated service area and assess impacts of City expanding or not expanding its service area. It will identify conflicts between City and County water policies and suggest approaches to integrate land use planning and water resources and infrastructure. And finally, identify opportunities to address CAGR issues including: directing development to areas most suitable, recharge facilities closer to withdrawals, CAGR funding of recharge infrastructure, wheeling of water, legislative advocacy, etc.

## AUGUST 20 MEETING

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### **Additional Water Resources** – *Lead: City/County Staff and/or Water Resources Research Center*

Establish likely time frames in which new water may be necessary for the Tucson region both to meet future demand but also to buttress current resources and ensure reliability in times of drought or due to climate change. Identify the full range of potential sources of new water. This includes defining clearly what we mean by new water. Discuss what other “interests” in the state, in the CAWCD delivery area, and in Pima County are

considering relative to new water. Create and/or recommend an evaluation matrix for each potential new water source which could include such things as: costs (including social justice issues), lead times to deliver new water, state of technology for delivering new water sources, local and non-local environmental issues, local autonomy (can we get the water ourselves), new water resource quantity, new water resource quality, new water source compatibility with existing infrastructure, both for water provider delivery and users plumbing, etc. Discuss how we balance acquiring new water resources with maximizing conservation and our use of locally renewable and non-municipal water resources (e.g. rainwater/stormwater, greywater and effluent). What strategies can be used to link water conservation with protecting future water supply and enhancing the environment, rather than simply making more population growth possible?

**Water Quality** – *Lead: City/County Staff and/or Chuck Graff*

Review water and wastewater quality issues, especially the issue of emerging contaminants. Document the current state of knowledge about these emerging contaminants and describe how the two jurisdictions plan to address the issue of emerging contaminants. Document the list of current substances that are tested for and an inventory of any exceedances over the past twenty years.