

# Imported Water Recharge Technical Committee

May 11, 2010

Signatories to the Cooperative Agreement

City of Corona / EMWD / EVMWD / OCWD / City of Riverside  
City of San Bernardino MWD / SGPWA / SBVMWD / WMWD

## ATTENDEES

Lyndy Lewis, City of Corona  
John Daverin, EMWD  
Marsha Westropp, OCWD  
Greg Woodside, OCWD  
Julius Ma, EVMWD  
Max Rasouli, City of Riverside

Jayne Joy, EMWD  
Dennis Williams, Geoscience/SBV  
Matt Huang, MWH/EVMWD  
Mark Norton, SAWPA  
Regina Patterson, SAWPA

## Call to Order / Introductions

The Salinity Management and Imported Water Recharge Technical Committee meeting was called to order at 1:33 p.m. at the Santa Ana Watershed Project Authority located at 11615 Sterling Avenue, Riverside, California. Introductions were made.

## Review Requirements of Cooperative Agreement and MOU

Mark Norton stated this meeting is to address any questions about what is going on with this effort. It will also provide an update on the individual planning horizons and whether there are imported water recharge projects anticipated over the next year or so and whether there are changes in modeling efforts. Some will be dependent upon others in the next round of projections to use that data from another groundwater model as input to their groundwater model.

## Other Business

Mr. Norton reported the general manager and the remaining agencies in the San Timoteo Watersheds Management Authority have withdrawn. Currently, the organization has not been formally dissolved.

Mr. Norton further reported that SAWPA will be going through a "Call for Projects" process for Prop 84 funding. More details will be available soon.

## Modeling Updates

Dennis Williams stated San Bernardino Valley Municipal Water District (Valley District) has six basins they are working on that include Bunker Hill A, Bunker Hill B, Lytle Creek (San Bernardino area), Rialto, Colton and Yucaipa which will receive inputs of water from San Timoteo/Beaumont. The models are in place. The Yucaipa model is a lumped (basin-wide or stirred reactor) parameter model and the others are distributed parameter models. The USGS model is being used for Rialto/Colton and Valley District is using its own San Bernardino basin

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model that is refined with a lithologic model and 100x100 foot cells in five layers for the three zones within the San Bernardino basin. He reported they are continually using the San Bernardino basin area models for routine project evaluation.

For the Riverside basin, Max Rasouli reported that they are almost complete with the flow model for the Riverside and Arlington basins. The intent is to build a water quality module on top of it two years out, 2014. There is no physical facility to recharge imported water into Riverside or Arlington basins. There are no plans for the next three years. Mr. Norton said there was some discussion of rubber dams at a previous OWOW Conference. Mr. Rasouli said that is for north Riverside, and at a minimum is scheduled for completion in three years. It will have a connection to the State Water project. He asked if an upper basin that recharges needs to look at the impact on a downstream basin? Mr. Williams said yes. The output flows and water quality would be provided from Colton and Bunker Hill which would be the inputs because Riverside and Arlington interface with both.

Discussion ensued and Mr. Norton said this is a voluntary effort to work with each other to obtain the information if it is available, if not, best estimates can be made of what those future subsurface inflows would be from the upgradient areas. Mr. Williams suggested the Technical Committee meet to discuss the gaps in the model data and what the deadlines should be.

Matt Huang reported on the Elsinore Management Zone basin stating Elsinore has a groundwater model of the area. It does not have water quality components so a three compartment stirred reactor model was created. Elsinore is at the top of the basin with little outflow to others, but it does have surface water to Temescal. The report has no surface water output, it is purely the groundwater analysis and the surface water data comes from Elsinore. Mr. Williams said that would probably be one of the inputs to the wasteload allocation model. John Daverin suggested the discuss focus on groundwater, not surface water.

Mr. Williams said someone needs to diagram surface water in groundwater. Do we let surface water go through? Who will do what? Will we rely on the wasteload allocation from the end of Bunker Hill to Prado Dam? Mr. Norton said a projection tool called the Santa Ana River Wasteload Allocation Model has been put together. We are on a 5-year time schedule for updating it. This model was just updated last year. That will be the best tool available and to rely on at this stage.

Lyndy Lewis reported that in the last month City of Corona has been discussing stormwater and some possible issues with environmental. There are two consultants handling those items. Mr. Norton reported that at the last update the City of Corona didn't indicate anything for the next three years, therefore, we will wait until Corona has a project. Corona may be covered by the Riverside A and Riverside E Elsinore management zones. Because one is downstream of the other, Mr. Huang asked if there is a concern if the due dates for submittal by Temescal and Riverside are the same? Mr. Norton stated this can be worked out among the Technical Committee as we plan future work.

Mr. Daverin said they are not currently discharging into the surface waters. Perris south is currently flowing into Lakeview. Mr. Daverin said they anticipate 7,500 acre-feet/year of imported water recharge into the San Jacinto valley from State Water Project. This is a new

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recharge project. Mr. Norton said according to the Cooperative Agreement, they should be going through a CEQA process. Mr. Daverin said the project was stopped by U.S. Fish and Wildlife Service after it began several years ago. Recently a biological opinion allows us to move forward again. This would have been included in the maximum benefit analysis that EMWD recently completed and submitted last year. Jayne Joy stated the WE Inc. constantly stirred reactor model was used with the submittal for the maximum benefit on this basin. Mr. Daverin said it has been indicated that the WE Inc. model is acceptable in the long term analysis as well.

Mr. Woodside reported that for Orange County, imported water recharge has been done since the 1950s. In the modeling approach, we will invest more time into thinking of going for a more elaborate approach in the future with a more sophisticated model. As listed on page 4 of the Cooperative Agreement, the Orange County Basin Groundwater Model refers to the existing three-layer model which is a flow model they are updating. We would have to decide if we want to modify our model address TDS and nitrate or use another approach. Mr. Norton asked if Orange County accounts for Coyote Creek discharge? Only indirectly Mr. Woodside replied. Most recharge from there would probably flow into Los Angeles County.

Mr. Woodside suggested a diagram be prepared indicating who is responsible for what.

#### **Future Meeting**

For continued coordination, participants will be contacted to schedule a progress meeting in January 2011.

#### **Adjournment**

The meeting adjourned at 2:20 p.m.