

Imported Water Recharge Technical Committee

August 31, 2011

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, EMWD
John Daverin, EMWD
Greg Woodside, OCWD
Marsha Westropp, OCWD
Linda Garcia, WMWD
Fakhri Manghi, WMWD
Julius Ma, EVMWD
Hope Smythe, CRWQCB
Norris Brandt, EVMWD
Johnson Yeh, SBVMWD

Greg Watanabe, City of Corona
Cindy Li, CRWQCB
Sam Fuller, SBVMWD
Jack Nelson, YVWD
Jeff Davis, SGPWA
Mark Wildermuth, WEI
Samantha Adams, WEI
Joe LeClaire, WEI
Mark Norton, SAWPA
Regina Patterson, SAWPA

Call to Order / Introductions

The Imported Water Recharge Technical Committee meeting was called to order at 1:30 p.m. at the Santa Ana Watershed Project Authority located at 11615 Sterling Avenue, Riverside, California. Introductions were made.

Review January 5, 2011 Meeting Summary

Mark Norton presented meeting notes from January 5, 2011 for review. Clarifications were made and the meeting summary was deemed acceptable as amended (see www.sawpa.org).

Review Cooperative Agreement and MOU

Mark Norton provided some background and indicated the MOU is a good document to review each signatory's obligations closely and the timing of what is to be accomplished. The group discussed Item 4 in the Agreements section of the Cooperative Agreement "Preparation of Triennial Water Quality Report".

Mark Norton said there is a requirement of everyone to prepare a summary of the amount and quality of imported water recharging to the groundwater management zone that may be overlying your area by July 2012. It was determined that the date for submittal would be July 18, 2012 for the period January 1, 2009 through December 31, 2011. **He requested that all signatories submit data to Mark Norton no later than June 30, 2012.** The data will be compiled and then sent to the Regional Board before the deadline of July 18, 2012.

Obligations and clarifications were noted. Table 1 on page 2 of the MOU "*Due Dates for Second Report Projecting Future Groundwater Quality*" was revised to include Arlington, and Temescal,

Riverside F Management Zones (MZs). **Mark Norton will produce a complete list of the water quality projection report lead agencies and modelers prior to the next meeting.**

Modeling Updates

Mr. Norton invited reports on modeling updates.

Beaumont, Yucaipa and San Timoteo MZs - Jeff Davis, SGPWA

Inquired whether SGPWA should be included with submittal from WEI. Sam Fuller indicated SBVMWD has done and will continue reporting for Yucaipa and San Timoteo. Jeff Davis indicated he would meet with WEI and Cindy Li to determine how SGPWA would proceed. Mark Wildermuth said WEI will prepare the analysis for Beaumont. They also performed some salt projections for Yucaipa which they can share with SBVMWD. Mark Wildermuth noted there is no planned imported water recharge in the San Timoteo Management Zone.

Developing a simpler model report for limited parameter models was recommended. There are eight models outlined in the agreement that are acceptable. A subset of the modelers agreed to revise the outline for modeling reports to accommodate simpler model analyses. The Committee agreed that modeling reports due by July 2012 should have their draft reports distributed to the rest of the Committee by March 1st.

Bunker Hill A, Bunker Hill B, Lytle Creek, Rialto and Colton MZs - Sam Fuller, SBVMWD

It was noted that more needs to be known about the upper basin models prior to making a decision on deadlines. More frequent meetings would be valuable to the process to review past reports and ongoing work rather than waiting to meet to discuss a draft report. They will continue to use Geoscience for their modeling work.

Riverside A through Riverside E and Elsinore MZs - Fakhri Manghi, WMWD

The Riverside Arlington model is complete and the report by WRIME Inc. will be available online soon. The simulation period was from 1965 to 2007. Adding a water quality component to the model is being considered for the near future. Plans are also underway to expand the Arlington Desalter from 6.3 mgd to 10 mgd. WEI developed a flow model for the Arlington Basin to determine the feasibility to expand. The modeling result indicated it is not feasible without any artificial recharge. Proposals to implement this work have been received and are being reviewed with anticipation of an award within the next month. Drilling will begin in the proposed basins within the next two months for the spreading wells. Recycled water and stormwater will also be recharged with a blending ratio of 70/30.

Linda Garcia said WMWD currently obtains non-potable water coming from the Riverside Canal. Their Western Water Recycling Facilities, formerly March Treatment Plant, is now a tertiary treatment plant and produces recycled water. Soon that water will enter WMWD's non-potable line which will then be referred to as the recycled water line. Most of that water goes to the adjacent golf course and cemetery. However, in the future, the balance of the recycled water flows may be used as a blend for recharge at Arlington Basin.

Temescal Groundwater Basin – Greg Watanabe, City of Corona

Their situation remains nearly the same other than an evaluation is being done on the Temescal Groundwater Basin seeking additional wells to better understand the outer boundaries of the basin. Work is continuing with WEI on a recharge master plan for the Temescal Basin to look at recharge strategies similar to WMWD's efforts. Their past modeling work was prepared by Todd Engineers.

City of Riverside – no representative present

Mark Norton reported it had been indicated the city was not planning to do any recharge for the next 20 years. Cindy Li said there was some discussion of doing a rubber dam to capture river flow. Modeling is being done by Geoscience.

Sam Fuller commented that SBVMWD will likely be an involved partner in the rubber dam project with everything in Riverside north of the county line. Currently, WMWD and SBVMWD have a permit from the SWRCB to divert water from the Santa Ana River at and upstream from Seven Oaks. A point of re-diversion may be added at the rubber dam and the state water project turnout WR23 could deliver imported water to that rubber dam as well. Sam Fuller responded to a question about permits saying, if you make no appropriations from the surface flow of the river at that location, and if you bypass all the native flow coming into the river dam and divert only the SAR water that was bypassed from Seven Oaks and state water project water from WR23, no permit is required.

San Jacinto Area MZs – John Daverin, EMWD

Currently, the groundwater flow model is being reviewed for potential update. The imported water program in the San Jacinto upper pressure area known as their Integrated Recharge and Recovery Program is currently on hold due to the San Bernardino kangaroo rat. At last population count there were 2,500 endangered rats in the proposed area. Imported water cannot be recharged until approval is obtained from U. S. Fish and Wildlife Service. The recharge basin is in the river channel. Native recharge occurs in the Canyon groundwater management zone. Their program has been moved up and down the stream channel, but more rats continue to be discovered. The original conjunctive use area downstream to the north may be the best place once again. Off-river opportunities are not seen but will be used if they occur. What started off as a 100 acre parcel is now limited to 35 acres of recharge ponds. The plan is to recharge 7,500 acre-feet/year of imported water and locate it in the upper San Jacinto Management Zone once the permit is approved and facilities are in place. There are no recycled water recharge projects at this time. The potential model update is being reviewed internally, so there are no outside consultants at this time.

Elsinore Valley MWD – Julius Ma and Norris Brandt, EVMWD

Their groundwater model is being looked at by Montgomery Watson Harza (MWH), and it will be updated in the next year. Over the last fiscal year, EVMWD has injected just over 2,500 acre-feet of treated imported water into the Elsinore Basin, which includes seven injection wells and a production well. In the coming fiscal year it is planned to inject approximately 3,000 acre-feet. There is a cooperative agreement with MWD for the storage.

Norris Brandt added there will likely be additional work done to analyze the ambient water quality in the entire Temescal Valley groundwater basin where there are currently no numerical objectives. There are no current plans to recharge in those basins.

Orange County MZ - Greg Woodside, OCWD

There is nothing new to report with OCWD modeling in terms of the schedule. For the last two years OCWD has recharged about 20,000 acre-feet/year with a big increase this year because MWD water is available. Roughly, OCWD is trying to recharge 100,000 acre-feet this year with about half of that being water directly in the ground and the other half in lieu - contracting with pumpers to turn their wells off. There is a lot of water going in the ground this summer and early in the fall through October. Some comes from Anaheim Lake and some comes down from OC-59 (down San Antonio Wash to Chino Creek through the dam at Prado and comes down mixed with all the other waters). This is because of constraints on deliveries plus some constraints that have to do with certain mussel issues. When we can isolate the basin and only recharge imported water, percolation performance is much better.

The Committee agreed to meet every other month to keep everyone informed of the work being done upstream.

Future Meeting

October 31, 2011 at 1:30 p.m.

Adjournment

The meeting adjourned at 3:05 p.m.