

**SPECIAL MEETING OF THE WATER RESOURCES COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CALIFORNIA 90712
2:00 P.M., WEDNESDAY, NOVEMBER 2, 2011**

AGENDA

EACH ITEM ON THE AGENDA, NO MATTER HOW DESCRIBED, SHALL BE DEEMED TO INCLUDE ANY APPROPRIATE MOTION, WHETHER TO ADOPT A MINUTE MOTION, RESOLUTION, PAYMENT OF ANY BILL, APPROVAL OF ANY MATTER OR ACTION, OR ANY OTHER ACTION. ITEMS LISTED AS "FOR INFORMATION" MAY ALSO BE THE SUBJECT OF ANY "ACTION" TAKEN BY THE BOARD OR A COMMITTEE AT THE SAME MEETING.

- 1. DETERMINATION OF A QUORUM**
- 2. PUBLIC COMMENT**
- 3. MINUTES OF THE SPECIAL MEETING OF OCTOBER 12, 2011**
Staff Recommendation: Approve the minutes as submitted.
- 4. GROUNDWATER BASIN UPDATE**
Staff Recommendation: For information.
- 5. TIME EXTENSION WITH USGS FOR CENTRAL BASIN GROUNDWATER CONTAMINATION STUDY**
Staff Recommendation: Extend the termination date of the agreement with the United States Geological Survey for the Central Basin Groundwater Contamination Study to June 30, 2012, with no additional cost to the District.
- 6. GROUNDWATER BASINS MASTER PLAN UPDATE**
Staff Recommendation: For information.
- 7. GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP) UPDATE**
Staff Recommendation: For information.
- 8. DIRECTORS REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF**
- 9. ADJOURNMENT**

Posted by Abigail C. Andom, Deputy Secretary, October 31, 2011.

In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the Board meeting, please contact Deputy Secretary Abigail Andom at (562) 921-5521 for assistance to enable the District to make reasonable accommodations.

All public records relating to an agenda item on this agenda are available for public inspection at the time the record is distributed to all, or a majority of all, members of the Board. Such records shall be available at the District office located at 4040 Paramount Boulevard, Lakewood, California 90712.

Agendas and minutes are available at the District's website, www.wrd.org.

UNAPPROVED
MINUTES

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**MINUTES OF OCTOBER 12, 2011
SPECIAL MEETING OF THE WATER RESOURCES COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA**

A special meeting of the Water Resources Committee of the Board of Directors of the Water Replenishment District of Southern California was held on Wednesday, October 12, 2011, 12:22 p.m., at the District Office, 4040 Paramount Boulevard, Lakewood, California. Director Rob Katherman called the meeting to order and presided thereafter. Deputy Secretary Abigail C. Andom recorded the minutes.

1. DETERMINATION OF A QUORUM

Attendees at the meeting were as follows:

Committee: Directors Albert Robles and Rob Katherman

Staff: Robb Whitaker, Cathy Chang, Jason Weeks, Jim McDavid,
Special Counsel David Alvarez

2. PUBLIC COMMENT

None.

3. MINUTES OF THE MEETING OF SEPTEMBER 12, 2011

The minutes were approved as submitted.

The agenda items were taken out of order.

5. CONTRACT AMENDMENT WITH CH2MHILL

Senior Engineer Jason Weeks stated that District staff and consultants have developed a series of alternative management scenarios for the Groundwater Basins Master Plan (Plan), with input of groundwater basin stakeholders, which should now be evaluated using the District's Regional Groundwater Model. Mr. Weeks stated that the task for modeling the scenarios was not included in the original scope of work and budget for the Plan since, at the time, it was unclear how many scenarios would be developed and require evaluation using the model. He explained that now that the scenarios have been developed, it is clear that the use of the model will allow for further refinements of the scenarios and a more accurate estimate of the costs of those scenarios.

Mr. Weeks stated that staff has been working with CH2MHILL on refining the scope of work and budget and the cost for this additional modeling is estimated not to exceed \$250,000.

Discussion followed and the Committee recommended the Board approve the amendment to the Groundwater Basins Master Plan agreement with CH2MHILL to complete groundwater modeling, subject to approval as to form by District Counsel, in an amount not to exceed \$250,000.

6. MEMORANDUM OF UNDERSTANDING REGARDING FINANCIAL CONTRIBUTION FOR WATER AUGMENTATION STUDY

The Committee recommended the Board execute a Memorandum of Understanding with the Council for Watershed Health, subject to approval of form by District Counsel, for the Elmer Ave Retrofit Monitoring, for an amount not to exceed \$25,000.

Special Counsel David Alvarez stated that he would like to add an item to the agenda, that the need came subsequent to the posting of the agenda for this meeting, and there is a need to take immediate action to discuss two items of anticipated litigation. The Committee unanimously added the item as Agenda Item 6.A.

6.A SUBSEQUENT NEED ITEM – CLOSED SESSION

Conference with Legal Counsel – Anticipated Litigation, Pursuant to Government Code §54956.9 (b), Two Cases

The Committee went into closed session. The Committee reconvened in open session. Special District Counsel David Alvarez stated that status reports were provided and direction was given to staff.

4. GROUNDWATER BASINS MASTER PLAN UPDATE

Mr. Weeks provided an update on the status of the Groundwater Basins Master Plan for the West Coast Basin and Central Basin.

7. INTERRUPTION OF RECYCLED WATER DELIVERY TO DOMINGUEZ GAP BARRIER

Senior Engineer Jim McDavid provided a report to the Committee.

8. GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP) UPDATE

Senior Engineer Jim McDavid provided a report to the Committee.

9. DIRECTORS REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF

The next Water Resources Committee meeting is scheduled Wednesday, November 2, 2011 at 12:00 p.m.

10. ADJOURNMENT

With no further business for the Committee, the meeting was adjourned at 1:35 p.m.

Chair

ATTEST:

Member



MEMORANDUM

ITEM NO. 4

Prepared by: Ted Johnson
Reviewed by: Everett Ferguson
Approved by: Robb Whitaker

DATE: NOVEMBER 2, 2011
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: GROUNDWATER BASIN UPDATE

SUMMARY

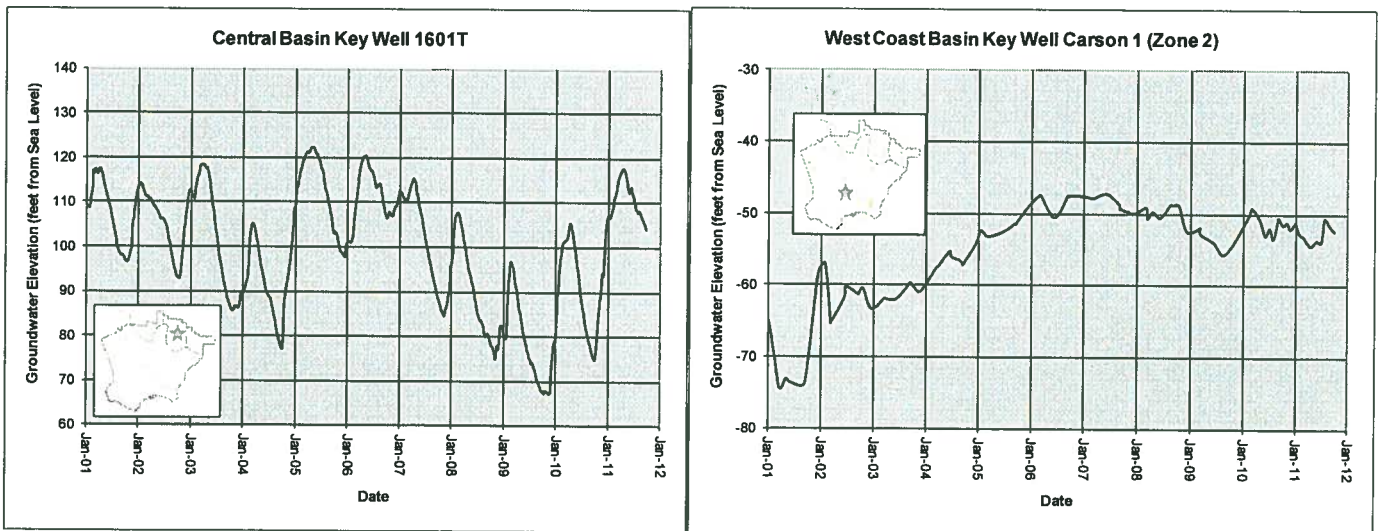
Staff monitors groundwater conditions in the Central and West Coast Basins throughout the year. A summary of the latest information is presented below.

Precipitation:

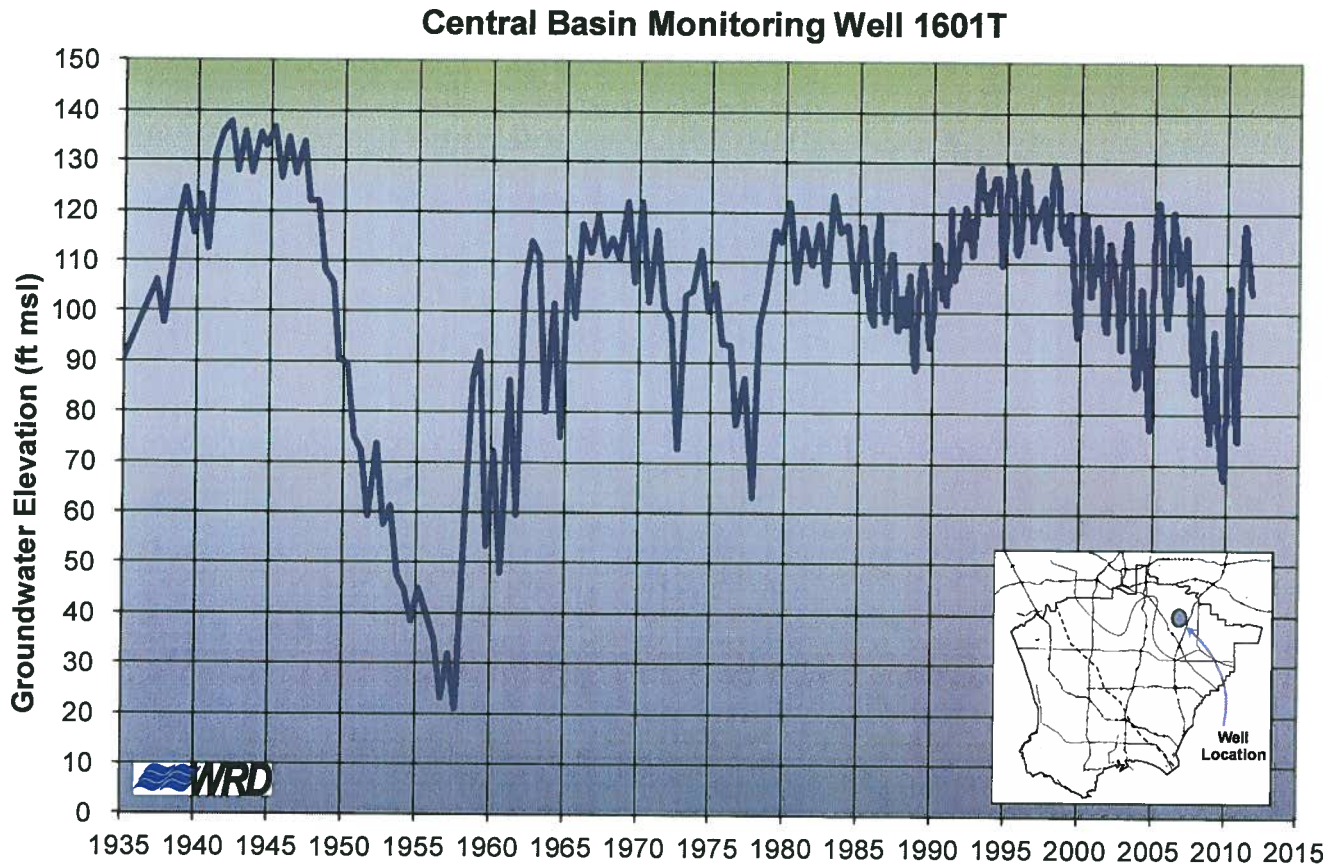
Since the start of the water year on October 1, 2011 there has been 1.08 inches of rainfall recorded by the WRD Precipitation Index. A normal year is 15.83 inches. Therefore, the region is 6.8% of normal in just the first month of the water year. The majority of rainfall typically occurs between December and March of each year.

Groundwater Levels:

Groundwater levels in Central and West Coast Basin key wells for the past 10 years are shown in the hydrographs below. In the Central Basin Key Well 1601T, water level fluctuations from 10 feet to 40 feet occur between the winter and summer months depending on the amount of rainfall, pumping, and WRD replenishment activities. Water levels in the well are currently declining at the rate of about 0.8 feet per week. In the West Coast Basin Key Well Carson #1 (Zone 2), water levels respond more to pumping and barrier injection activities versus rainfall since the well is in a confined aquifer. Water levels are currently falling at the rate of about 0.2 feet per week.



As requested at the September Water Resources Committee, a longer-term hydrograph for Key Well 1601T is presented below.



Spreading Grounds Replenishment:

- **Stormwater:** Updated numbers from the Los Angeles County Department of Public Works indicate that nearly 111,000 acre-feet of stormwater has been captured at the Montebello Forebay spreading grounds from October 1, 2010 – August 31, 2011. A normal year is approximately 54,000 acre-feet, so this year is 57,000 acre-feet or 106% above normal.
- **Imported Water:** WRD received 19,274 acre-feet from its latest order of 25,000 acre-feet for discounted MWD replenishment water through August. The imported water was shut off in September due to County maintenance activities in the spreading grounds and river channels, and MWD discontinued making the discounted water available effective October 1, 2011. MWD is considering new replenishment program opportunities effective January 1, 2012, depending on surplus water availability.
- **Recycled Water:** Through August 2011, a total of 33,080 acre-feet of recycled water has been captured at the spreading grounds for groundwater recharge. This averages about 3,000 acre-feet per month which is lower than the target of 4,000 acre-feet per month. The recycled amounts have been low this year due to the excessive amounts of stormwater that occupied the spreading grounds in the winter months. However, the

amount of recycled can be made up in the future to approach WRD's permitted amount (35% average recycled water content over 5-years).

Seawater Barrier Well Replenishment:

- **Imported Water:** Between October 2010 and September 2011, a total of 13,363 acre-feet of imported water has been purchased for injected into the three seawater barriers by WRD (the West Coast Basin Barrier Project, the Dominguez Gap Barrier Project, and the Alamitos Barrier). The amount planned for the year was 14,300 acre-feet. The difference is due to several unexpected short-term barrier shutdowns or reductions over the year due to leaks or pipeline breaks, and also due to reduced Alamitos Barrier demands from the Long Beach In-Lieu program.
- **Recycled Water:** Between October 2010 and September 2011, a total of 11,285 acre-feet of recycled water has been purchased for injection into the three seawater barriers by WRD. The amount planned for the year was 14,100 acre-feet. The difference is due to short-term barrier shutdowns over the year due to leaks or pipeline breaks, the continued difficulties of producing more recycled water at the West Basin treatment plant, and due to reduced Alamitos Barrier demands from the Long Beach In-Lieu program.

In-Lieu Replenishment Water:

WRD and the City of Long Beach's latest In-Lieu agreement is for a maximum of 15,000 acre-feet. To accomplish this, the City has reduced their pumping significantly and is taking the discounted MWD water for their daily needs. The reduction in pumping will cause groundwater levels to rise and will lessen the demands at the Alamitos Seawater Barrier. To date, Long Beach put 8,215 acre-feet into the In-Lieu Program. Since MWD stopped making In-Lieu water available effective October 1, 2011, it is likely that no additional Long Beach In-Lieu water will occur under the current agreement.

Pumping:

Since October 1, 2010 through August 2011, a total of 197,146.54 acre-feet of groundwater have been pumped from wells within the District; 156,494.61 acre-feet from the Central Basin and 40,651.93 acre-feet from the West Coast Basin. As compared to the previous year, Central Basin is down 13% and West Coast Basin is up 1%. Combined, pumping is down 10% from the previous year. Reasons for the decline in the Central Basin are likely due to the wet weather in the first half of 2011 which caused reduced water demands, WRD's In-Lieu program with the City of Long Beach that has reduced pumping, and continuing water conservation efforts by the public and businesses in the District.

FISCAL IMPACT

For information.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 5

*Prepared by: Phuong Ly
Reviewed by: Ted Johnson
Approved by: Robb Whitaker*

DATE: NOVEMBER 2, 2011

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: TIME EXTENSION WITH USGS FOR CENTRAL BASIN GROUNDWATER CONTAMINATION STUDY

SUMMARY

On September 19, 2008, the Board approved an agreement with the United States Geological Survey (USGS) to conduct the Central Basin Groundwater Contamination Study for an amount not to exceed \$352,140 with the understanding that \$250,000 would be reimbursed to WRD from AB303 Local Groundwater Assistance (LGA) Program grant funds. WRD executed a funding agreement in November 2008 with the California Department of Water Resources (DWR) for a \$250,000 grant through the LGA Program.

In December 2008, in the context of the State's budget crisis, DWR issued instructions to suspend all work funded by the State's general obligation bonds including the AB303 grant funds, advising grantees that continuation of work would be at their own risk. Accordingly, work was stopped in January 2009 and WRD began communicating with DWR regarding how and when to proceed again.

On February 19, 2010, the Board directed staff to resume work on the Central Basin Groundwater Contamination Study with the USGS, recognizing that WRD may not be reimbursed in full for the \$250,000 of AB303 grant funds. In order to accomplish this, the term of the existing agreement with the USGS was extended to December 31, 2011 to accommodate the delay caused by the suspension of work.

Work resumed April 1, 2010 as mutually agreed with DWR, and in April 2010 DWR unilaterally issued time extensions to accommodate the delays caused by the suspension of work and modified the agreement with WRD to extend the termination date to November 15, 2011. At the recent request of WRD, DWR issued a second contract amendment to revise the termination date to July 31, 2012 to allow adequate time to complete the Study and final report.

In accordance with the revised terms of the agreement with DWR, staff would like to extend the termination date of the contract with USGS to June 30, 2012.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

Extend the termination date of the agreement with the United States Geological Survey for the Central Basin Groundwater Contamination Study to June 30, 2012, with no additional cost to the District.



MEMORANDUM

ITEM NO. 6

Prepared by: Jason Weeks

Reviewed by: Ted Johnson

Approved by: Robb Whitaker

DATE: NOVEMBER 2, 2011

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: GROUNDWATER BASINS MASTER PLAN UPDATE

SUMMARY

District staff and its consultants, CH2MHILL and RMC Water and Environment, are continuing work on the development of a Groundwater Basins Master Plan for the West Coast Basin and Central Basin (Plan).

The focus of effort over the previous month was the detailed development of alternative management scenarios for the Central Basin and development of model files for the evaluation of alternatives for both the Central and West Coast Basins.

District staff will provide the Committee with an update on the alternative management scenarios for the Central and West Coast Basins and the status of the groundwater modeling which is being performed as part of this study.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 7

Prepared by: Jim McDavid
Reviewed by: Ted Johnson
Approved by: Robb Whitaker

DATE: NOVEMBER 2, 2011

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

**SUBJECT: GROUNDWATER RELIABILITY IMPROVEMENT PROGRAM (GRIP)
UPDATE**

SUMMARY

The GRIP partnership, originally consisting of the Upper San Gabriel Valley Municipal Water District (USGVMWD), the San Gabriel Valley Municipal Water District (SGVMWD), the Los Angeles County Sanitation Districts (LACSD) and WRD, has been dissolved following the departure of the USGVMWD and the SGVMWD. However LACSD and WRD remain committed to work together to identify opportunities for increased recycled water use for groundwater recharge in WRD's service area as a modification to GRIP. Staff will provide an update of any new information at the Committee meeting.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

For information.