

**MEETING OF THE WATER RESOURCES COMMITTEE  
OF THE BOARD OF DIRECTORS  
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA  
12621 E. 166th Street (corner of Bloomfield & 166th), Cerritos, California  
9:00 A.M., THURSDAY, JANUARY 4, 2007**

**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. **CONSIDERATION OF RESOLUTION NO. 07-\_\_\_\_**  
**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA ORDERING AN ENGINEERING SURVEY AND REPORT REGARDING THE GROUNDWATER SUPPLIES OF THE DISTRICT PURSUANT TO WATER CODE §60300**  
*Staff Recommendation:* Adopt Resolution No. 07-\_\_\_\_.
4. **BASIN UPDATE FOR WY 2006/2007**  
*Staff Recommendation:* For information.
5. **SEPULVEDA WELL #2 PUMPING TEST PRELIMINARY RESULTS**  
*Staff Recommendation:* For information.
6. **IN-LIEU PROGRAM**  
*Staff Recommendation:* For information.
7. **BAY DELTA AUTHORITY UPDATE**  
*Staff Recommendation:* For information.
8. **DIRECTORS REPORTS, INQUIRIES, DIRECTIONS TO STAFF**  
*Staff Recommendation:* For information.
9. **ADJOURNMENT**

Posted by Abigail C. Andom, Deputy Secretary, December 29, 2006.



**MEMORANDUM**

**ITEM NO. 3**

Prepared by: Mario Garcia  
Reviewed by:

**DATE: JANUARY 4, 2007**  
**TO: WATER RESOURCES COMMITTEE**  
**FROM: ROBB WHITAKER, GENERAL MANAGER**  
**SUBJECT: CONSIDERATION OF RESOLUTION NO. 07-\_\_\_\_**  
**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA ORDERING AN ENGINEERING SURVEY AND REPORT REGARDING THE GROUNDWATER SUPPLIES OF THE DISTRICT PURSUANT TO WATER CODE §60300**

**SUMMARY**

Each year the District prepares its Engineering Survey and Report (ESR) to determine, among other things, the replenishment water needs and water costs of the District for the ensuing water year. This data, combined with the upcoming annual budget document for FY 2007/08, provides the Board with the necessary information to establish the Replenishment Assessment (RA) for Fiscal Year 2007/08.

Attached draft Resolution No. 06-\_\_\_\_ orders the preparation of the annual ESR and states which items are to be included in the report pursuant to Water Code Section 60300. Staff's tentative schedule to meet the Water Code-required deadlines for this year's ESR and RA process is as follows:

Date	Item	Board action
02/07/07	Order preparation of ESR	Adopt Resolution No. 07-____
03/07/07	Complete ESR	Accept ESR; Adopt resolution to raise funds via RA
03/23/07	Publish Notice for Public Hearing	
04/04/07	ESR Review	Conduct public hearing on ESR and RA
05/02/07	Establish RA	Close public hearing; establish RA for FY 07/08

*Assumes regular board meetings remain on the 1<sup>st</sup> and 3<sup>rd</sup> Wednesdays of each month*

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

Adopt Resolution No. 07-\_\_\_\_ (attached).

**RESOLUTION NO. 07-\*\*\***

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA  
ORDERING AN ENGINEERING SURVEY AND REPORT  
REGARDING THE GROUNDWATER SUPPLIES OF THE DISTRICT  
PURSUANT TO WATER CODE §60300**

WHEREAS, Section 60300 of the California Water Code requires the Board of Directors of a Water Replenishment District to order an engineering survey and report to be made regarding the groundwater supplies of the District as a prerequisite to the establishment of an annual water replenishment assessment;

NOW, THEREFORE, IT IS RESOLVED AS FOLLOWS:

1. The Board of Directors ("Board") of the Water Replenishment District of Southern California ("District") orders that an engineering survey and report be prepared by Staff regarding the groundwater supplies of the District.
2. The engineering survey and report shall include, in addition to such other information as may be deemed relevant by Staff, the following:
  - a. Records, data and other information for the consideration of the Board in its determination of the annual overdraft;
  - b. Records, data and other information for the consideration of the Board in its determination of the accumulated overdraft as of the last day of the preceding water year;
  - c. A report, with supporting data, as to the total production of groundwater from the groundwater supplies within the District during the preceding water year;
  - d. A report, with supporting data, as to the changes during the preceding water year in the pressure levels or piezometric heights of the groundwater contained within pressure-level areas of the District, and as to the effects thereof upon the groundwater supplies within the District;
  - e. An estimate of the annual overdraft for the current water year and for the ensuing water year;
  - f. An estimate of the accumulated overdraft as of the last day of the current water year;
  - g. An estimate of the total production of groundwater from the groundwater supplies within the District for the current water year and for the ensuing water year;

- h. An estimate of the changes during the current water year in the pressure levels or piezometric heights of the groundwater contained within pressure-level areas of the District, and of the effects thereof upon the groundwater supplies within the District;
  - i. An estimate of the quantity, source, and cost of water available for replenishment of the groundwater supplies during the ensuing water year under the provisions of Section 60315 of the California Water code;
  - j. A statement of any recommended actions to be undertaken by the District for the purpose of protecting and preserving the groundwater supplies within the District for beneficial uses under Section 60224 of the California Water Code and the estimated costs of each recommended action, including but not limited to engineering and legal fees and expenses and District overhead.
3. Staff shall deliver the report as requested herein to the Board on or before March 7, 2007.

PASSED, APPROVED AND ADOPTED this \_\_\_\_ day of \_\_\_\_\_, 2007.

\_\_\_\_\_  
President

ATTEST:

\_\_\_\_\_  
Secretary



**MEMORANDUM**

ITEM NO. 4

Prepared by: Mario Garcia  
Reviewed by:

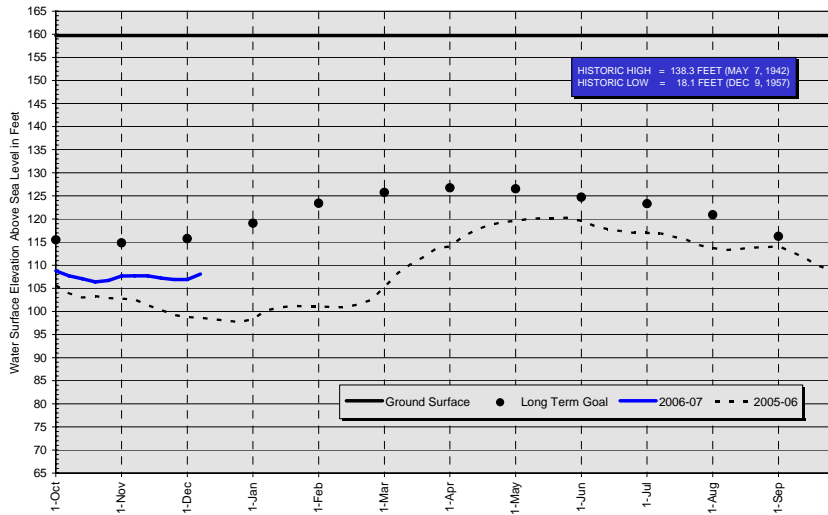
DATE: JANUARY 4, 2007  
TO: WATER RESOURCES COMMITTEE  
FROM: ROBB WHITAKER, GENERAL MANAGER  
SUBJECT: BASIN UPDATE FOR WY 2006/2007

**SUMMARY**

The current water year has completed its first quarter with local rainfall totaling 0.68 inches (LACDPW Station #716 – Los Angeles Ducommun Street). This is about 4% of the normal annual amount of 15.5 inches at this same station. This is not uncommon in that most local precipitation has historically fallen during the January-March period.

The water level in the Montebello Forebay key well is approximately 10 feet higher than the same period of a year ago. In fact, over the past two years, the basins have experienced net gains in storage. The preliminary estimate of change in storage from October 1, 2005 to September 30, 2006 is a positive 12,000 acre-feet. These gains have been in large part due to above-average rainfall and overall reduced pumping.

**MONTEBELLO FOREBAY WELL 1601T  
GROUNDWATER SURFACE ELEVATION**



The basin outlook for next year is generally good. Estimates of the replenishment needs for WRD will be generated in the coming months during the preparation of the 2007 Engineering Survey and Report. Staff will provide the committee at its meeting with additional information on the current water conditions of the Central and West Coast Basins.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.

**DATE: JANUARY 4, 2007**

**TO: WATER RESOURCES COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: SEPULVEDA WELL #2 PUMPING TEST PRELIMINARY RESULTS**

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**SUMMARY**

The District performed a month-long pump test of Sepulveda Well 2, located in the City of Torrance near the intersection of Sepulveda Boulevard and Anza Avenue. The primary purpose of the test, which was conducted from early November 2006 through early December 2006, was to determine the sustainable chloride concentration that could be drawn from this location. Additional tests on water quality and zone sampling were also performed during this period.

Because this well is located in a residential neighborhood very close to some homes, care was taken to minimize any noise impacts by hiring a professional sound-proofing company to construct “sound walls” around the generator and well motor.

The well pumped at a steady 1,700 gallons per minute. The initial chloride concentration started at 790 mg/L and steadily increased during the first few weeks of the test. By the end of the test period, the chloride levels had reached about 900 mg/L but the upward trend had leveled out. Unfortunately, the concentration never exceeded 1,000 mg/L.

The District also logged flow velocities (see bottom picture) and collected depth-discrete samples at the well to determine the chloride concentrations at varying levels. Staff will provide additional information to the committee on the preliminary results of these analyses.



**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.



## MEMORANDUM

ITEM NO. 6

Prepared by: Jason Weeks

Reviewed by: Mario Garcia

**DATE: JANUARY 4, 2007**

**TO: WATER RESOURCES COMMITTEE**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: IN-LIEU PROGRAM**

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### SUMMARY

In-lieu replenishment provides a means for indirectly recharging the groundwater basins by using an alternative source of water in lieu of groundwater, thereby reducing the quantity of replenishment water required for the basins.

Historically, the alternative source of water has been seasonally discounted imported water purchased from the Metropolitan Water District of Southern California (MWD) through one of its member agencies. Since the cost of this imported water is still greater than the cost of groundwater (RA + pumping costs + treatment costs), the District, through its In-Lieu Replenishment Program, has provided a subsidy to make the cost of this imported water approximately equal to the pumped groundwater it replaces.

Participation in this program has varied over the years based on several factors including:

- *Availability of seasonally available discounted water from MWD.*
- *Availability of a subsidy from WRD through the In-Lieu Replenishment Program.*
- *Eligibility of groundwater pumpers to qualify for seasonally discounted imported water; a requirement for receiving such water is verification of availability to pump if imported seasonal becomes unavailable*
- *Operating constraints of a participating agencies distribution system.*
- *Outreach to pumpers on availability of the District's In-Lieu Program and seasonally discounted imported water.*

In addition to the District's traditional In-Lieu Replenishment Program, over the past several months District staff has been evaluating the potential to replace existing groundwater production by refineries in the vicinity of the Dominguez Gap Barrier (DGB) with recycled water. Reduced pumping in this area of the basin would reduce costly non-interruptible water demands at the DGB.

The focus of discussion has been with the British Petroleum (BP) refinery since they already receive recycled water from WBMWD. At the last meeting in September 2006, BP provided the District and WBMWD staff with an overview of their existing groundwater production facilities and future plans. A summary is provided below:

- *BP has seven wells on site, of which four are currently active; the remaining three are currently in the process of being abandoned.*
- *Three of the four active wells were constructed in the 1940's; the other well was constructed in the 1980's*
- *A study by RETEC for BP is expected to be completed by the end of 2006 that will identify issues related to the four active wells and make recommendations for their future operation. Production capacities of the three older wells have been steadily decreasing.*
- *A new BP reverse osmosis (RO) facility is expected to go online in the first quarter of 2007 to provide boiler feed water, the source water for which will be advanced treated recycled water purchased from West Basin Municipal Water District. When this facility comes online, the groundwater that is currently being extracted from Well #13 will be delivered to BP's cogeneration plant.*

In summary, BP was open to discussion regarding participation in the Refinery In-Lieu Program; however, they requested a deferral of discussions until March 2007. At that time, they expect to have a clearer picture of their future water needs and desired sources.

What also came out of this discussion was a clearer understanding of the decision-making process employed by refineries when considering a switch in water sources. In general, refineries have invested considerable capital in their existing water blend (imported, recycled, groundwater), and any modification of this blend would require extensive study and could lead to considerable capital investments.

#### **FISCAL IMPACT**

None.

#### **STAFF RECOMMENDATION**

For information.