

**Metropolitan Domestic Water Improvement District  
Board of Directors Meeting**

**October 12, 2011**

**Monthly Status of the District – September 2011**

**Synopsis**

The purpose of this agenda item is to provide the Board with an update of the District's activities for the past month. This is not an action item, but is meant to provide information to the Board and give a clearer picture of the District's activities.

**September 2011 Report**

**Water Usage/Quality**

Amount of Water Consumed in Metro Main

Month of September 2011 – 244,169,900 gallons

Same period last year – 245,417,100 gallons

Month of August 2011 – 226,261,200 gallons

Amount of Water Consumed in Metro Hub

Month of September 2011 – 26,870,900 gallons

Same period last year – 28,268,300 gallons

Month of August 2011 – 28,234,000 gallons

Amount of Water Consumed in Metro Southwest

Month of September 2011 – 10,182,200 gallons

Same period last year – 10,316,100 gallons

Month of August 2011 – 9,971,200 gallons

Amount of Water Recharged at AVRP

Month of September 2011 – 216,969,438 gallons

Same period last year – 73,642,326 gallons

Month of August 2011 – 226,904,555 gallons

Revenue Metered Sales Billed in September 2011 – Grand Total \$ 1,444,703.71

Metro Main – \$ 1,257,040.13

Metro Hub – \$ 128,216.02

Metro Southwest – \$ 59,447.56

Last Year Revenue Metered Sales Billed in September 2010 – Grand Total \$ 1,333,962.32

Metro Main – \$ 1,151,985.01  
Metro Hub – \$ 121,959.00  
Metro Southwest – \$ 60,018.31

#### Water Quality Samples

79 Microbiological samples taken from the distribution system.  
32 Microbiological samples taken from the District's active wells.  
52 Lab/field test samples for arsenic, nitrate, IOCs, copper, lead and VOCs.

#### Status of Compliance with Regulatory Requirements

District is in compliance with its regulatory requirements.

### **System Maintenance**

#### Noteworthy Maintenance Projects and Major Repairs in September 2011:

1. Installed 220 of new 2" PVC service line at E&T.
2. Replaced failed 25 hp motor at Diablo Village No. 2.
3. Located and exercised valves on La Canada in advance of next road project.
4. Performed step test on Diablo Village No. 2 well.
5. Jensen Well maintenance complete. Well is back in service.

PRV Inspections – 81

Valves Exercised – 110

#### Meter Replacement Program

Meters Replaced – 11  
Meters Rebuilt – 0  
Meters Tested – 0

New Meter Installs – 0

### **Customer Accounts**

Total Customers – 19,795

Turn-on for New Accounts – 236

#### Delinquent Accounts – September 2011

Initial Shut Off Notices – 1,205  
Final Shut Offs – 61

High Consumption Contacts – 15

Service Orders & Work Orders – Total performed: 38

Service Orders (generated from customers calling in with a problem):

Metro Main – 22

Metro Hub – 0

Metro Southwest – 2

Work Orders (generated by staff when a need to perform additional work is recognized):

Metro Main – 14

Metro Hub – 0

Metro Southwest – 0

### **Hydrology Projects**

**Effluent Recharge Projects** – Hydrology staff continues working separately on two of four constructed recharge projects, so the District can earn 100% in recharge credits instead of 50% through the Santa Cruz River Managed Effluent Recharge Project. The recharge projects would be cooperative with different partners. One project is with the Bureau of Reclamation, and the other with a local farmer. Discussions with the farmer have progressed to an executed storage agreement. Staff has submitted to ADWR an application to modify its storage permit to include effluent.

**Magee Trail Well** – Arizona Beeman completed the reamed borehole to 1,005 feet on September 1<sup>st</sup>. Casing and annular materials were completed by September 7<sup>th</sup> after the original screen was rejected for slot size being too small. Beeman completed 90 hour of swab and airlift development on September 11, 2011. The mud pits have been backfilled and compacted and all drilling equipment has been moved off site. We are currently awaiting a force-account request from the pump subcontractor (The Weber Group) to set the test pump deeper than originally specified to allow for a more thorough pump and surge development. Step and constant rate testing will follow. Further details and a more up-to-date summary can be provided at the Board meeting.

**Recovery Wells** – Hydrology is awaiting comments on a recovery well agreement for the recovery of CAP water and effluent credits from the Avra Valley Recharge Project.

**AVRP Modification** – On August 23, 2011, work was completed on modifying Basin 4. The modification cost was \$10,000 out of the \$25,000 budget or \$500 per boring. Staff began testing to see if the borings increase the basin's infiltration rate on September 23, 2011.

**South Shannon Treatment System** – As of September 27, 2011, approximately 52 million gallons of water has been treated since the fifteenth carbon change-out on June 24, 2011. Since its startup in July 2006, 1.034 billion gallons of water has been treated by the treatment system. For calendar year 2011, a total of \$41,955.98 has been received from ADEQ. Since 2000, \$622,496.33 has been reimbursed from ADEQ. Staff is preparing the 3<sup>rd</sup> quarter reimbursement request.

**2012 CAP Order** – Staff submitted the 2012 CAP order ahead of the October 3, 2011 deadline. The 11,236 ac-ft order will be the highest order for the District to date. A total of 6,436 ac-ft will be stored at AVRPP for the District and 4,800 ac-ft at groundwater savings facilities. In addition, staff is trying to secure the Arizona Water Banking Authority to use the remaining 1,600 ac-ft of storage capacity at AVRPP.

### **Capital Improvement Program & Other Major Projects**

**Magee Road, Shannon Road to Thornydale Road and Shannon Road Transmission Main** – Pima County plan approval obtained on August 25, 2011. Project began bidding on September 6, 2011, with bids being opened on September 29, 2011. Construction contract award scheduled for the October 12, 2011 Board Meeting.

**La Cañada Drive ‘A’ Zone Transmission Main and Waterline Relocations, Ina Road to River Road** – Final plan approval was obtained from Pima County on July 8, 2011. Bids were opened on September 1, 2011 and the construction contract was awarded to Action Pipeline during the September 12, 2011 Board Meeting. Construction is anticipated to start late October 2011.

**Magee Road, Shannon Road to La Cañada Drive Waterline Relocations** – Plan approval was received on November 19, 2010 and the bid process began on November 23, 2010. Bids were received on December 29, 2010 and the construction contract was awarded to Innova Engineering on January 10, 2011. A pre-construction meeting was held on January 28, 2011 and a notice to proceed was issued for February 22, 2011. Construction is continuing.

**La Cholla Boulevard Waterline Relocations, Magee Road to Overton Road** – Pima County plan approval was obtained on August 25, 2011. Bid process commenced on September 26, 2011 with bids to be received on October 26, 2011. Construction contract award is planned for the November 14, 2011 Board Meeting.

**Riverside Well Transmission Main** – The design contract was awarded to Westland Resources on February 14, 2011. A notice-to-proceed was issued on February 28, 2011. The consultant submitted 30% plans for review in mid-June 2011. District comments were returned to the consultant in late June 2011. The consultant submitted 60% plans for review in late July 2011 and District comments were returned to consultant in mid-August 2011. Design completion is expected in November 2011.

**Riverside Well Improvements** – Design of the well site improvements is being done by the District’s Miscellaneous Design Consultant, EEC Engineering.

**Fruchthendler Well Improvements** – A notice-to-proceed has been issued to the District’s Miscellaneous Design Consultant, EEC Engineering, for the well site

improvement design. Design currently on hold until consultant completes Magee Trail and Riverside Wells.

**Magee Trail Well Improvements (New Matter Well)** – A notice-to-proceed has been issued to the District's Miscellaneous Design Consultant, EEC Engineering for the well site improvement design. The consultant submitted 30% plans for review July 2011 and District comments returned to consultant. The consultant submitted 60% plans on August 29, 2011, and comments were returned to the consultant in mid-September 2011. New well data is expected in early October 2011 to allow completion of plans In November 2011.

**Orange Grove Rd., Camino de la Tierra to La Cholla** – Pima County utility plans received in September 26, 2011. District staff will review for conflicts.

For additional information regarding this report, the Board can also refer to the more detailed reports from the Utility and Engineering Divisions. The Board should feel free to request any additional information that it would like to see on this report. Staff is prepared to discuss any questions that the Board may have regarding this report.

Respectfully Submitted,

Mark R. Stratton, P.E.  
General Manager