

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

**August 13, 2012**

**Monthly Status of the District – July 2012**

**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.

**July 2012 Report**

**Water Usage/Quality**

Amount of Water Consumed in Metro Main

Month of July 2012 – 238,654,100 gallons  
Same period last year – 279,155,900 gallons  
Month of June 2012 – 244,955,000 gallons  
FY12-13 Year to Date – 238,654,100 gallons  
FY11-12 Year to Date – 279,155,900 gallons

Amount of Water Consumed in Metro Hub

Month of July 2012 – 27,660,000 gallons  
Same period last year – 31,820,700 gallons  
Month of June 2012 – 34,902,300 gallons  
FY12-13 Year to Date – 27,660,000 gallons  
FY11-12 Year to Date – 31,820,700 gallons

Amount of Water Consumed in Metro Southwest

Month of July 2012 – 11,554,000 gallons  
Same period last year – 11,416,500 gallons  
Month of June 2012 – 12,720,200 gallons  
FY12-13 Year to Date – 11,554,000 gallons  
FY11-12 Year to Date – 11,416,500 gallons

Revenue Metered Sales Billed in July 2012 – Grand Total \$ 1,423,512.61

Metro Main – \$ 1,225,564.45  
Metro Hub – \$ 133,943.27  
Metro Southwest – \$ 64,004.89

Last Year Revenue Metered Sales Billed in July 2011 – Grand Total \$ 1,591,777.97

Metro Main – \$ 1,371,906.15  
Metro Hub – \$ 156,064.21  
Metro Southwest – \$ 63,807.61

**Water Quality Samples**

- 79 Microbiological samples taken from the distribution system.
- 10 Microbiological samples taken from the District's active wells.
- 65 Lab/field test samples for arsenic, nitrate, copper, lead, IOCs, VOCs, TTHMs and HAA5.

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**Status of Compliance with Regulatory Requirements**

District is in compliance with its regulatory requirements.

**System Maintenance**

**Noteworthy Maintenance Projects and Major Repairs in July 2012:**

1. Repaired or replaced 6 services at E&T to allow AMR installations.
2. Service line replacement at 2055 Hospital Drive.
3. Repaired leak on discharge manifold at Horizon Hills.
4. Replaced resin traps on Hub 1 and Hub 3 arsenic systems.
5. Continue Wanda and Alcott electrical work.

PRV Inspections – 74

Valves Exercised – 0

**Meter Replacement Program**

Meters Replaced – 0  
Meters Tested – 55

New Meter Installs – 2

**Customer Accounts**

Total Customers – 19,854

Turn-on for New Accounts – 229

Delinquent Accounts – July 2012

Initial Shut Off Notices – 797  
Final Shut Offs – 74

High Consumption Contacts – 24

Service Orders & Work Orders – Total performed: 61

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

Metro Main – 23  
Metro Hub – 4  
Metro Southwest – 15

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

Metro Main – 17  
Metro Hub – 2  
Metro Southwest – 0

### **Hydrology Projects**

**Avra Valley Recharge Project (AVRP)** – A wet/dry cycle of the basins was completed mid-July for improving infiltration rates. A total of 4,689 acre-feet have been recharged at AVRP from January 1, 2012 to July 31, 2012, or an average of 670 acre-feet per month. Staff finished the technical review of the revised drawings for the new AVRP flow gates and the gates have been ordered for manufacturing. The District also received approval from ADWR to remove non-District monitoring wells from its recharge permit.

Amount of Water Recharged at AVRP:

Month of July 2012 – 143,048,589 gallons  
Same period last year – 197,139,855 gallons  
Month of June 2012 – 206,263,683 gallons

**South Shannon Treatment System** – As of July 31, 2012, approximately 29 million gallons of water has been treated since the eighteenth carbon change-out on May 30, 2012. Since its startup in July 2006, 1.2 billion gallons of water has been treated by the treatment system. For calendar year 2011, a total of \$107,956.57 was received from ADEQ and 30.2 pounds of contaminants were removed. Since 2000, \$753,270.10 has been reimbursed from ADEQ. Staff received the 2<sup>nd</sup> quarter reimbursement request from ADEQ for \$32,386.59. For calendar year 2012, 25.8 pounds of contaminants have been removed from the aquifer

**Effluent Recharge** – On July 6, 2012, the District received a permit from ADWR on the District's permit application to store up to 2,250 acre-feet/year of treated effluent with Cortaro-Marana Irrigation District. The District and Cortaro will now begin negotiations with Pima County Wastewater Management Department to re-establish through an IGA the effluent interconnection at the Ina Road Wastewater Reclamation facility. The Bureau of Reclamation will inspect and assess the condition of pipeline interconnect north of Ina Road.

**Metro Southwest – Diablo AWS** – Clear Creek Associates completed a draft Hydrology Report for staff review. The groundwater flow model projects after 100 years of pumping there is sufficient physical availability for the build out demands of 4,144 acre-feet per year. The developer, Clear Creek Associates and the District will meet with ADWR in early August to learn if ADWR agrees with the study's findings. If accepted, then staff will develop a water service agreement for Board consideration before submitting to ADWR a Designation for Assured Water Supply application. Staff is also working on a draft CAP wheeling agreement, so the District can store part of its CAP water allocation at Tucson Water's Southern Avra Valley Recharge and Recovery Project.

**Recovery Well Permit** – ADWR has approved the District's request to add Old Magee Trail Well under the District's permitted recovery wells.

### **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 was awarded to Innova Engineering during the October 12, 2011 meeting. A notice to proceed was issued for January 9, 2012. Construction is ongoing with an anticipated completion date in December 2012.

**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 started on October 31, 2011 and is continuing with an anticipated completion date in October 2012.

**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 and bids were received on October 26, 2011. Construction contract was awarded during the November 14, 2011 Board meeting to Select Development. Construction started on February 27, 2012 and is continuing with an anticipated completion date in August 2012.

**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. Design was completed in February 2012. A portion of the project in conflict with the Pima County Lulu Walker project was completed in May 2012. Construction anticipated to start in early 2013.

**Riverside Well Improvements** – Design of the well site improvements is being done by the District's Miscellaneous Design Consultant, EEC Engineering. Design was completed in July 2012. Construction anticipated to start in early 2013.

**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. 60% plans have been submitted by consultant to the District.

**Old Magee Trail Well Improvements (Matter Well)** – A notice-to-proceed was issued to the District's Miscellaneous Design Consultant, EEC Engineering, for the well site improvement design. Bid advertisement to commence in March 2012 with construction contract award in April 2012. Pima County approved plans on March 13, 2012 and bid advertisement began on March 19, 2012. Bids were received on April 18, 2012 and construction contract was awarded to the Ashton Company on April 30, 2012. A pre-construction meeting was held on June 7, 2012 and a construction notice to proceed was issued effective June 19, 2012. Construction was anticipated to start in early July 2012, however due to several rain events wet soil conditions have prevented work.

**Orange Grove Rd., Camino de la Tierra to La Cholla** – Pima County utility plans received in September 26, 2011. Due to staff workload, design is being done by the District's Miscellaneous Design Consultant, EEC. Pima County plan approval was obtained on July 16, 2012 and the bid process commenced on July 16, 2012. Bids are to be received on August 22, 2012.

**Magee Road, La Canada Drive to Oracle Road** – Received PCDOT Utility Plans on October 17, 2011. Design commenced in December 2011. Pima County plan approval was received on July 10, 2012 and the bid process commenced on July 16, 2012. Bids are to be received on August 22, 2012.

**Pantano Road Transmission Main** – The design contract was awarded to Westland Resources on January 9, 2012. A notice-to-proceed was issued on January 23, 2012. The consultant has submitted 60% plans to the District. Review comments returned to consultant in July 2012.

**Oracle/Ina Intersection Improvements** – Pima County final plans for utilities were received on April 12, 2012. Conflicts with the proposed storm drains will require the lowering of existing waterline at three locations. Plans have been submitted to Pima County DOT and ADOT for review.

For additional information regarding this report, the Board can also refer to the more detailed reports from the Utility and Engineering Teams. 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