

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

**December 12, 2011**

**Monthly Status of the District – November 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.

**November 2011 Report**

**Water Usage/Quality**

Amount of Water Consumed in Metro Main

Month of November 2011 – 183,110,000 gallons  
Same period last year – 194,339,300 gallons  
Month of October 2011 – 215,782,100 gallons

Amount of Water Consumed in Metro Hub

Month of November 2011 – 29,824,100 gallons  
Same period last year – 23,549,800 gallons  
Month of October 2011 – 25,231,900 gallons

Amount of Water Consumed in Metro Southwest

Month of November 2011 – 7,812,500 gallons  
Same period last year – 8,166,900 gallons  
Month of October 2011 – 9,683,100 gallons

Amount of Water Recharged at AVR P

Month of November 2011 – 104,598,171 gallons  
Same period last year – 0 gallons  
Month of October 2011 – 195,510,600 gallons

Revenue Metered Sales Billed in November 2011 – Grand Total \$ 1,127,391.39

Metro Main – \$ 980,065.85  
Metro Hub – \$ 94,879.62  
Metro Southwest – \$ 52,428.41

Last Year Revenue Metered Sales Billed in November 2010 – Grand Total \$ 1,085,735.96

Metro Main – \$ 931,072.68  
Metro Hub – \$ 101,524.64  
Metro Southwest – \$ 53,138.64

#### Water Quality Samples

- 79 Microbiological samples taken from the distribution system.
- 12 Microbiological samples taken from the District's active wells.
- 70 Lab/field test samples for arsenic, nitrate, IOCs, metals, DBPs 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 November 2011:

1. Replaced Diablo Village No. 2 well pump for better efficiency.
2. Changed treatment vessels at Lazy B.
3. Regenerated Hub 1 Arsenic treatment media.
4. Repaired fire hydrant hit behind Fry's.
5. Completed Larrea Lane poly service replacements.

PRV Inspections – 81

Valves Exercised – 0

#### Meter Replacement Program

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

New Meter Installs – 0

### **Customer Accounts**

Total Customers – 19,840

Turn-on for New Accounts – 209

#### Delinquent Accounts – November 2011

Initial Shut Off Notices – 98  
Final Shut Offs – 94

High Consumption Contacts – 10

Service Orders & Work Orders – Total performed: 37

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

Metro Main – 19

Metro Hub – 3

Metro Southwest – 5

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

Metro Main – 10

Metro Hub – 0

Metro Southwest – 0

### **Hydrology Projects**

**Old Magee Trail Well** – Well drilling is completed.

**E&T Inactive Well Assessments** – On November 21, 2011, while conducting a routine specific capacity test at E&T well #22, Hydrology staff discovered a potential well head protection problem. Approximately 20 feet northwest of the active production well is an inactive well (ADWR no. 55-618410). Inspection of the inactive well revealed a broken sanitary seal and well casing had rusted away at the ground surface, creating a conduit for surface runoff directly into the aquifer. No money was budgeted this year for wellhead protection. This situation should be dealt with promptly to protect the groundwater quality at the active production well. Staff is obtaining cost estimates to fully expose the well casing and determine if an actual conduit exists. Then, staff will decide whether to repair the well and convert it to a monitoring well or if it must be decommissioned (abandoned).

**South Shannon Treatment System** – As of November 29, 2011, approximately 23 million gallons of water has been treated since the fifteenth carbon change-out on June 24, 2011. The sixteenth carbon change-out occurred on October 25, 2011. Since its startup in July 2006, 1.065 billion gallons of water has been treated by the treatment system. For calendar year 2011, a total of \$74,618.72 has been received from ADEQ. Since 2000, \$655,159.07 has been reimbursed from ADEQ.

**Avra Valley Recharge Project (AVRP)** – As of November 30, 2011, AVRP has stored 7,051 acre feet of CAP water. 650 acre-feet remains to be stored for the Arizona Water Bank in December. Testing continues on Basin 4 infiltration rates after the basin water level dropped to zero on Monday, November 28, 2011. Staff increased the inflow into the basin and the new infiltration has risen 60% to 0.8 feet per day. The District Hydrologist will give a talk on AVRP purchase at the Tucson AZ Water luncheon on Thursday, January 5, 2012.

**2012 CAP Order** – The District ordered 11,236 acre-feet for 2012, which is an all-time high; a total of 6,436 acre-feet at AVRP and 4,800 acre-feet at groundwater savings facilities. The Town of Marana's storage contract is for 1,636 acre-feet of the 6,436 acre-

feet at AVRVP. Staff will learn on December 7<sup>th</sup> if the Arizona Water Banking Authority will store 1,600 acre-feet at AVRVP.

**Winter 2011/2012 Water Level Monitoring** – Hydrology has scheduled annual water level measurements and 12 specific capacity tests for the 2011/2012 Winter season. Measurements at 66 wells began on December 1, 2011 and go through the end of January. Staff has completed two specific capacity tests thus far. Once again the automated water level form will be utilized in the field and Utility staff will aid in measurements at active well sites.

### **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 construction meeting was held on November 21, 2011. Construction is anticipated to start in mid-December 2011.

**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.

**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 completion is anticipated in December 2011.

**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 tentatively awarded during the November 14, 2011 Board meeting to Select Development.

**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 December 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 was provided to the consultant in mid-November. Final plans are expected in December 2011 with bid advertisement to commence in January 2012.

**Orange Grove Rd., Camino de la Tierra to La Cholla** – Pima County utility plans received in September 26, 2011. Approximately 1,500 lineal feet of existing pipe will be required to be relocated. Design to commence in December 2012.

**Magee Road, La Canada Drive to Oracle Road** – Received PCDOT Utility Plans on October 17, 2011. Design to commence in December 2011.

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