

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

**November 13, 2019**

**Monthly Status of the District – October 2019**

**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.

**October 2019 Report**

**Water Usage/Quality**

Amount of Water Consumed in Metro Main

FY 2020 Year to Date – 847,538,300 gallons

FY 2019 Year to Date – 809,989,600 gallons

Amount of Water Consumed in Metro Hub

FY 2020 Year to Date – 105,184,400 gallons

FY 2019 Year to Date – 100,674,100 gallons

Amount of Water Consumed in Metro Southwest

FY 2020 Year to Date – 56,422,400 gallons

FY 2019 Year to Date – 52,109,000 gallons

Revenue Metered Sales Billed in October 2019 – Grand Total \$1,480,460.68

Metro Main – \$1,255,261.86

Metro Hub – \$127,874.76

Metro Southwest – \$97,324.06

Prior Year Revenue Metered Sales Billed in October 2018 – Grand Total \$1,403,100.71

Metro Main – \$1,198,915.88

Metro Hub – \$114,079.33

Metro Southwest – \$90,105.50

Water Quality Samples

82 Microbiological samples taken from the distribution system.

10 Microbiological samples taken from the District's active wells.

110 Lab/field test samples for VOCs, IOC's, SOC's, Nitrate and Nitrite, 1,4-Dioxane, Perfluorinated Chemicals, Hexavalent Chromium, Arsenic, and UCMR-4 samples.

## **System Maintenance**

Noteworthy Maintenance Projects and Major Repairs in October 2019:

1. Pulled Diablo Village #2 well to be upgraded per developer agreement.
2. Replaced altitude valve at Magee La Cholla to allow A-Zone fill.
3. Removed 12” line at Lambert site due to Oro Valley Road work.
4. Cut and plug on 4” main on Oracle Road due to failure.
5. Cleaner weir boxes at AVRVP.

Valves Exercised – 95

Meter Replacements – 44 – 5/8” meters

Meters Tested – 0

ERTs Replaced – 0

New Meter Applications – 36 total

Metro Main – 31

Metro Hub – 0

Metro Southwest – 5

## **Customer Accounts**

Total Customers Billed – 21,082

New Accounts – 271

Delinquent Accounts – October 2019

Initial Shut Off Notices – 1,197

Final Shut Offs – 162

High Consumption Contacts – 70

Service Orders & Work Orders On’s and Off Order Requests – Total performed: 445

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

Metro Main – 91

Metro Hub – 10

Metro Southwest – 15

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

Metro Main – 0

Metro Hub – 0

Metro Southwest – 0

Meter On’s and Off Order Requests

Metro Main – 295

Metro Hub – 4

Metro Southwest – 30

## **Water Sustainability Projects**

**2019 CAP Storage** – All of the City of Phoenix’s 3,500 acre-feet (AF) of water has been delivered to AVRP. All of the District’s deliveries to AVRP are also complete, and staff are now scheduling routine maintenance on the facility. Four hundred and fifty AF has been stored at Tucson Water’s Southern Avra Valley Storage and Recovery Project (SAVSARP), with 50 AF remaining through the balance of this calendar year. A total of 11,000 AF of the District’s water order has been delivered to groundwater savings facilities partners.

**South Shannon Treatment System Reimbursements** – Since 2000, \$1,237,451.13 has been reimbursed by the Arizona Department of Environmental Quality (ADEQ). For Fiscal Year 2020, ADEQ has a budget of \$57,719.00 for operations and sampling of the South Shannon Treatment System. An invoice for August and September 2019 was submitted in October.

**Avra Valley Recharge Project (AVRP)** – A technical design report and a description of the work to be performed on the AVRP facility is being prepared by Staff for submittal to the Arizona Department of Water Resources (ADWR) for a Director’s Modification to the current permit for new water measuring infrastructure. The civil design work for the civil engineering improvements planned for the AVRP facility have been completed. Some SCADA and native plant survey work still needs to be completed before a bid package can be prepared. Construction work on the facility’s improvements is anticipated to occur in Fiscal Year 2021 between January and June of 2021. These improvements, when completed, are projected to bring the operational recharge capacity up to or near the 11,000 AF permit capacity.

**Designation of Assured Water Supply (DAWS)** – District Staff had a pre-application meeting with ADWR on October 29, 2019. The meeting was to clarify parts of the application that will change regarding the sources of water available to fulfill 100-years of customer demands. The portfolio of water supplies that this modification will include allowable groundwater account (unchanged), remediated water (unchanged), CAP allocation (new), and CAP Long Term Storage Credits (new). This DAWS modification is the first step in the process to de-enroll Metro Main from the CAGR D.

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

**Northwest Recharge, Recovery, and Delivery System (NWRD)** – Easement acquisition is ongoing. The following summarizes the status of immediate possession as approved by the Board:

- APN 216-32-025A and 216-32-028A: Legal counsel is continuing to prepare for trial.

Staff continued coordination with the Town of Marana regarding an easement for BKW across an adjoining easement provided to the District by the Town, which will be needed prior to BKW’s ability to access District property via a future easement. Upon further

review with the Town of Marana, it was determined that Airport Road is a private Town-owned road. The Town of Marana is researching options, which may include the District acquiring an additional easement.

Staff and the District's consultant continued evaluation of pumping test and water quality sampling results. A report detailing the results will be completed this Fall. This report will be the basis for the design of the three production wells.

On October 10, 2019, ADWR issued a "Complete and Correct" letter for the recovery well permit application, noting the agency determined the application to be administratively complete and correct according to state statute. The public notice was published in the Arizona Daily Star on October 17 and 24, 2019. If no objections to the application are received by ADWR by the deadline of November 8, 2019, the agency will proceed with steps to finalize the permit.

The Partners determined it would be more efficient to combine the final design of the forebay with the transmission main. Staff worked with the District's consultant to revise the preliminary design schedule for the forebay to accommodate the combined solicitation in late November 2019. Staff prepared a draft solicitation and evaluation matrix, which is being reviewed by the Partners. It is anticipated the preliminary transmission main design will be finalized at the time of solicitation. The preliminary design of the forebay is anticipated to be in draft form at the time of solicitation.

A tour of the NWRRDS alignment and proposed facility locations was held October 9, 2019 with the District Board of Directors and Finance Oversight Committee.

A meeting with the NWRRDS Partners was held on October 10, 2019. A Technical Group meeting was held on October 15, 2019.

**Metro Main Recharge Recovery Transmission Main** – The final record of survey was recorded on October 11, 2019. The District's program support consultant submitted a revised draft scope of services, which is being reviewed by staff. Staff is continuing design work on the transmission main between the forebay reservoir and the Herb Johnson reservoir.

Evaluation of alternatives is ongoing for coordinated construction of a portion of the District's transmission main where it parallels proposed pipelines by the Town of Marana and the Town of Oro Valley, roughly between the forebay and Blue Bonnet Road.

**RTA Waterline Relocation – La Cholla Blvd: Overton Road to Lambert Lane** – The Town of Oro Valley's roadway contractor is proceeding with adjustments and the removal of waterlines necessitated by the RTA roadway improvement as authorized by the Intergovernmental Agreement (IGA) executed in April 2019. An amendment to the IGA was executed to enable adjustment of two additional services affected by the roadway construction. The cost of the amendment was within the limit previously authorized by the

Board. Staff is participating in construction meetings and is working with the contractor to identify District facilities and resolve potential conflicts.

**RTA Waterline Relocation – Valencia Road Valve and Meter Adjustments** – Pima County’s roadway contractor is proceeding with adjustments and the removal of waterlines necessitated by the RTA roadway improvement as authorized by the IGA executed in December 2017. Staff is continuing to work with the contractor to identify District facilities and resolve potential conflicts.

**ADOT Oracle Road Pavement / Drainage Upgrades** – The Arizona Department of Transportation is continuing design of its pavement and drainage upgrades, which will impact District facilities. Staff issued a notice-to-proceed to the District’s design consultant and final waterline relocation plans are expected by March 2020 to allow for bidding and award of a construction contract by July 2020. Construction of the roadway improvements are anticipated to begin in the Fall of 2020.

**2nd Herb Johnson Reservoir** – Coordination with the land owner, where the reservoir expansion is envisioned, is continuing.

**Old Nogales Highway Mainline Replacement** – The contractor started field work on October 22, 2019. The mainline replacement project has an anticipated competition date of March 27, 2020.

**E&T 22 Well Replacement** – The District’s design consultant completed the site survey and is developing the site layout. Following completion of the initial site plan and identification of necessary easements, staff will resume discussions with the District’s as-needed property acquisition consultant regarding a potential property swap.

Staff anticipates using the existing waterline that will be abandoned as part of the Old Nogales Highway Mainline Replacement project to facilitate well flushing. Pima County Department of Transportation authorized an amendment to the District’s original exemption request for this purpose. The amendment allows the District to defer removal of abandoned waterlines within the paved intersections until after the well construction is completed in Fiscal Year 2022. Abandoned waterlines outside paved areas would be removed within 10 years of construction of the new waterline contemplated by the mainline replacement project per the District’s original request.

**Diablo Village Service Line Replacement** – Staff is developing base files for preliminary design.

**Pantano Road Transmission Main** – Staff received a proposal from the District’s as-needed design consultant for necessary design updates for final design. The Board will be requested to consider the resulting proposal at its November 13, 2019 meeting.

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,

Joseph Olsen, P.E.  
General Manager