

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

December 7, 2020

Monthly Status of the District – November 2020

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 2020 Report

Water Usage/Quality

Amount of Water Consumed in Metro Main

FY 2021 Year to Date – 1,157,397,600 gallons

FY 2020 Year to Date – 1,050,292,200 gallons

Amount of Water Consumed in Metro Hub

FY 2021 Year to Date – 139,825,400 gallons

FY 2020 Year to Date – 126,972,300 gallons

Amount of Water Consumed in Metro Southwest

FY 2021 Year to Date – 79,624,100 gallons

FY 2020 Year to Date – 70,581,100 gallons

Revenue Metered Sales Billed in November 2020 – Grand Total \$1,772,272.51

Metro Main – \$1,529,332.56

Metro Hub – \$131,527.00

Metro Southwest – \$111,412.95

Prior Year Revenue Metered Sales Billed in November 2019 – Grand Total \$1,630,480.84

Metro Main – \$1,393,436.37

Metro Hub – \$133,522.37

Metro Southwest – \$103,522.10

Water Quality Samples

82 Microbiological samples taken from the distribution system.

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

80 Lab/field test samples for VOCs, IOCs, Nitrate, 1,4-Dioxane, Perfluorinated Chemicals, Hexavalent Chromium, and Arsenic.

System Maintenance

Noteworthy Maintenance Projects and Major Repairs in November 2020:

1. Replaced arsenic media in lead vessel at Lazy B.
2. Pulled Cresta Loma well for maintenance.
3. Removed old Shannon aeration system.
4. Performed preventative maintenance on electrical system at Thornydale.
5. Replaced well flow meter at Tucson National West.

Valves Exercised – 32

Meter Replacements – 9 – 5/8” meters

Meters Tested – 0

ERTs Replaced – 0

New Meter Applications – 54 total

Metro Main – 34

Metro Hub – 2

Metro Southwest – 18

Customer Accounts

Total Customers Billed – 21,600

New Accounts – 251

Delinquent Accounts – November 2020

Initial Shut Off Notices – 1,106

Final Shut Offs – 182

High Consumption Contacts – 634

Service Orders & Work Orders On's and Off Order Requests – Total performed: 355

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

Metro Main – 36

Metro Hub – 3

Metro Southwest – 11

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

Metro Main – 0

Metro Hub – 7

Metro Southwest – 2

Meter On's and Off Order Requests

Metro Main – 254

Metro Hub – 7

Metro Southwest – 35

Water Sustainability Projects

2020 CAP Storage – Only 333 acre-feet (AF) of the District’s Central Arizona Project (CAP) order of 9,960 AF remains to be delivered to AVRVP. Scheduled District CAP deliveries to all groundwater savings facilities (GSF) partners have been completed for the year. All of the City of Phoenix and Arizona Water Banking Authority’s scheduled deliveries to AVRVP have been completed for 2020.

South Shannon Treatment System Reimbursements – Since 2000, \$1,365,539.00 has been reimbursed by the Arizona Department of Environmental Quality (ADEQ). For Fiscal Year 2021, ADEQ has a budget of \$101,451 for operations, sampling, and two GAC change outs of the South Shannon Treatment System. The invoice for November 2020 will be submitted by mid-December.

On October 7, 2020, District staff submitted a letter to ADEQ updating recent water quality results for the South Shannon and Deconcini wells. ADEQ’s consultant has completed the model evaluation of operations of the South Shannon well treatment system. Various pumping rates for the South Shannon well have been run to analyze the well’s capture zone effectiveness, and duration of remediation. The results are in draft form and under District and ADEQ review.

Avra Valley Recharge Project (AVRP) – District staff have submitted a report to the Arizona Department of Water Resources (ADWR) requesting a Director’s Modification to the current permit for new water measuring infrastructure. To date, this application is still in the queue for approval. The new metering station and water delivery infrastructure will be constructed in Fiscal Year 2021 between January and June of 2021. The new metering station will eliminate ongoing discrepancies in the CAP billing meter and estimates of irrigation deliveries.

Designation of Assured Water Supply (DAWS) – District staff submitted an application to modify the District’s DAWS on May 18, 2020. This DAWS modification is the first step in the process to de-enroll Metro Main from the CAGR. The District received a “Deficiency” letter from ADWR on October 20, 2020. Staff will submit responses to ADWR’s questions, along with additional physical availability model updates by mid-December.

Inorganic and Synthetic Organic Monitoring Waivers – In order to maximize the efficiency of our water quality monitoring activities in Metro Main, staff submitted waiver applications for inorganic and synthetic organic chemicals at various sites to ADEQ for the 2021-2023 monitoring period. This program allows the District to reduce unnecessary monitoring for contaminants that are not likely to be present while continuing to monitor for potential contaminants that are most relevant for our service area. ADEQ has commenced their review of the applications.

Capital Improvement Program & Other Major Projects

Northwest Recharge, Recovery, and Delivery System (NWRDRS) – 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.

Work began on the three recovery wells on July 2, 2020 and is expected to be completed before the end of this calendar year and contractually must be complete by late February 2021. Production testing at AVRW-01, AVRW-02, and AVRW-03 has been completed, and preliminary results indicate these could be highly productive wells. Plumbness and alignment testing have been completed on AVRW-02 and AVRW-03, and AVRW-01 has been scheduled. Video inspections and static spinner logging still remains to be completed on all three production wells. After video and spinner logging is completed, Yellow Jacket will demobilize the site. Once all pumping test analyses and water quality reports are completed, the final productivity and water quality of the new wellfield will be known.

The District's consultant submitted the 90% submittal of the transmission main and forebay design, which has been distributed to the Partners for review.

Staff continued coordination with Trico regarding the electric service to the well sites and the forebay.

A Partner meeting was held on November 12, 2020. A Technical Group meeting was held on November 17, 2020.

NWRDRS (Metro-only portion)

Staff completed the review of the 30% design documents for the District's Booster Station. District staff are continuing work on the District's transmission main between the booster/forebay site and the Herb Johnson Reservoir. Design is progressing towards 90% and expected to be complete by the end of Fiscal Year 2021.

E&T22 Well Replacement – The District's Miscellaneous Property Acquisition Services Consultant is proceeding with services to complete the land exchange and easement dedications in advance of developing and equipping a replacement well with site improvements in a subsequent fiscal year.

ADOT Oracle Road Pavement / Drainage Upgrades – Construction in the Oracle Road corridor is ongoing. Construction is expected to be complete by December 31, 2020.

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