

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

January 11, 2021

Monthly Status of the District – December 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.

December 2020 Report

Water Usage/Quality

Amount of Water Consumed in Metro Main

FY 2021 Year to Date – 1,325,699,600 gallons

FY 2020 Year to Date – 1,203,183,200 gallons [10.2% Increase]

Amount of Water Consumed in Metro Hub

FY 2021 Year to Date – 158,808,400 gallons

FY 2020 Year to Date – 143,138,400 gallons [10.9% Increase]

Amount of Water Consumed in Metro Southwest

FY 2021 Year to Date – 92,392,700 gallons

FY 2020 Year to Date – 82,714,500 gallons [11.7% Increase]

Revenue Metered Sales Billed in December 2020 – Grand Total \$ 1,369,609.78

Metro Main – \$ 1,151,230.98

Metro Hub – \$ 117,125.63

Metro Southwest – \$ 101,253.17

Prior Year Revenue Metered Sales Billed in December 2019 – Grand Total \$ 1,348,393.67

Metro Main – \$ 1,150,116.18

Metro Hub – \$ 103,848.12

Metro Southwest – \$ 94,429.37

Water Quality Samples

82 Microbiological samples taken from the distribution system.

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

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

System Maintenance

Noteworthy Maintenance Projects and Major Repairs in January 2020:

1. Pulled Hardy Booster #1 due to mechanical seal leak.
2. Repaired 2” steel mainline at E&T.
3. Repaired 4” AC main in Metro Main.
4. Replaced two fiberglass meter vaults in Metro Main.
5. Repaired VFD #3 at Herb Johnson due to failed cooling fan.

Valves Exercised – 0

Meter Replacements – 6 – 5/8” meters; 1 – 1” meters; 1 – 2” meters

Meters Tested – 2

ERTs Replaced – 0

New Meter Applications – 45 total

Metro Main – 26

Metro Hub – 0

Metro Southwest – 19

Customer Accounts

Total Customers Billed – 21,675

New Accounts – 263

Delinquent Accounts – December 2020

Initial Shut Off Notices – 1143

Final Shut Offs – 198

High Consumption Contacts – 74

Service Orders & Work Orders On’s and Off Order Requests – Total performed: 290

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

Metro Main – 22

Metro Hub – 11

Metro Southwest – 14

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

Metro Main – 0

Metro Hub – 3

Metro Southwest – 4

Meter On’s and Off Order Requests

Metro Main – 196

Metro Hub – 7

Metro Southwest – 33

Water Sustainability Projects

2020 CAP Storage – All of the District’s CAP order was delivered in calendar year 2020. Deliveries of 3,500 acre-feet of the City of Phoenix water and 2,000 acre-feet of the Arizona Water Banking Authority’s water were delivered to AVRVP in 2020. A total of 8,960 acre-feet of the District’s water was delivered to groundwater savings facilities (GSF) partners and 1,000 acre-feet was delivered to AVRVP.

South Shannon Treatment System Reimbursements – Since 2000, \$1,369,362.29 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 December 2020 will be submitted by mid-January 2021.

ADEQ’s consultant has completed a model evaluation of operations of the South Shannon well treatment system. Results indicated that continued reductions in the pumping rate at the South Shannon well, as a result of increasing 1,4-dioxane level, could result in significant loss of plume containment that could further impact the Deconcini well and increase the duration of remediation. ADEQ’s project manager is preparing a proposal for installation of an Advanced Oxidation Process (AOP) treatment system at the site in Fiscal Year 2022. Other than the current O&M reimbursement budget, no additional WQARF funding is available to construct a treatment system in Fiscal Year 2021.

Avra Valley Recharge Project (AVRVP) – The District has received a Director’s Modification for the AVRVP USF permit from ADWR. The new permit includes changes that reflect installation of new piping and metering at the facility. 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 submitted responses to ADWR’s questions, along with additional physical availability modeling on December 8, 2020.

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 completed their review of the applications and has issued waivers for eligible sites.

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 was completed on December 31, 2020. Production testing at AVRW-01, AVRW-02, and AVRW-03 has been completed, and preliminary results indicate these could be highly productive wells. Plumbness, alignment testing, and down hole videos have been completed on all three production wells. Fencing replacement and personnel gates were installed at sites AVRW-01 and AVRW-02 before Yellow Jacket demobilized from the area. Once all pumping test analyses and water quality reports are completed, the final productivity and water quality of the new wellfield will be known.

Staff and the Partners completed their review of the 90% submittal of the transmission main and forebay design.

A Partner meeting was not held in December. A Technical Group meeting was held on December 15, 2020.

NWRDRS (Metro-only portion)

Staff is reviewing the 75% design documents for the independent transmission main between the booster / forebay site and the Herb Johnson Reservoir. A constructability review for the independent transmission main is expected to be performed by the District's Miscellaneous Water System Design consultant in early 2021 prior to final design. Staff is coordinating with the design consultant to generate a scope and fee. Final design is expected to be complete by the end of Fiscal Year 2021.

E&T22 Well Replacement – The District's Miscellaneous Property Acquisition Services Consultant is continuing efforts 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 was expected to be complete by December 31, 2020. Due to construction conflicts, the project is now expected to be complete by January 31, 2021. Staff coordinated with ADOT for the needed permit extension, which was received January 4, 2021.

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