



moulton niguel water district

Department Spotlight: Water Distribution Team

Citizen Advisory Committee Board Meeting

December 11, 2019

Sources of Drinking Water

- State Water Project / Colorado River Aqueduct
- Metropolitan Water District supplies MNWD treated water from the Diemer Filtration Plant
- Baker Water Treatment Plant (Dec. 2016)
- Treated water from the plants is conveyed down large transmission mains to MNWD and agencies throughout Orange County



Drinking Water Distribution System

- Approx. 700 miles of potable pipeline
- 9 Pressure zones
- 70.6 Million gallon (mg) total capacity
- 21 Reservoir sites w/ 28 tanks (.5 mg up to 10 mg)
- 50 Mg typically in storage
- Every gallon must remain potable and safe to consume



The District's Drinking Water Distribution System is sampled more than 6,200 times per year and undergoes more than 12,000 tests.



Laboratory Findings

- All sampling is reported to the SWRCB – DDW in MNWD’s Monthly Coliform, Surface Water Treatment, Nitrification, Disinfectant Residual, Quarterly DBP, Triennial Lead and Copper, and other Reports
- Reports from MNWD’s Distribution System, along with sampling and testing at Diemer and Baker Treatment Plants, are compiled into our annual Consumer Confidence Report (CCR)

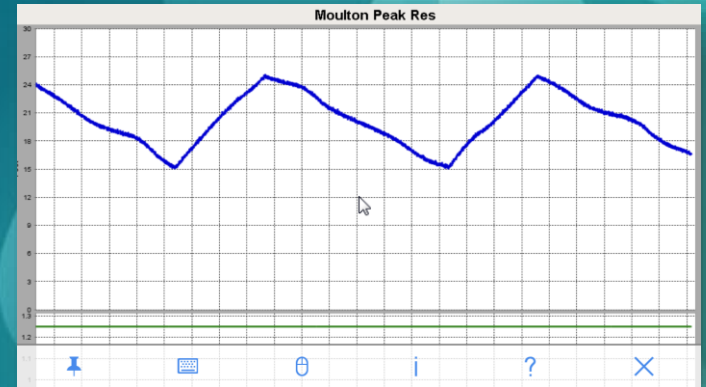


TOOLS FOR MANAGING WATER QUALITY

- Flushing



- Reservoir turn over / cycling
- Field sample analysis



Reservoir Management Systems



Thank you!

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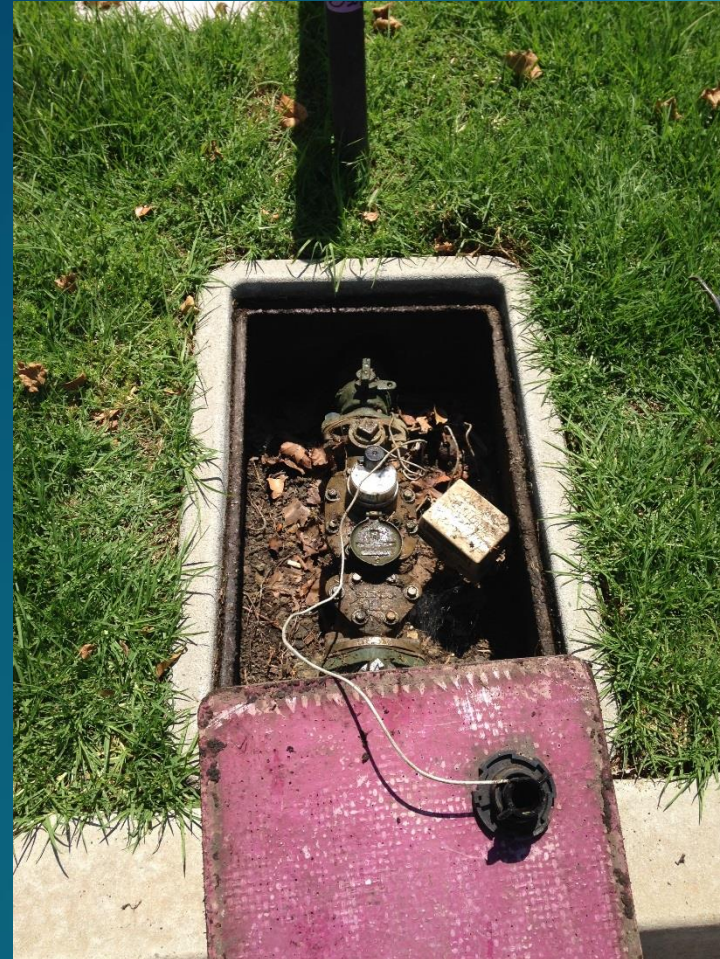
Districtwide Implementation of Advanced Metering Infrastructure (AMI)

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December 11, 2019

AMI Network Background

- Radio on water meter connects to network
- Sends hourly water usage every 4 hours
- All meters “AMI ready”



Customer Portal

- With AMI, near “real-time” data available
- Alerts sent for continuous flow
- Portal available today, ready for AMI data



Completed to Date

- Phase 1: 4,900 meters + network
 - All Recycled Water & Irrigation customers
- Phase 2: 4,500 meters
 - All Commercial and Multi-Family Customers
- \$600k in Grant Funding for first two phases



Full Scale AMI

- Approximately 45,600 SFR meters remain after Phase 1 & 2
- All meters “AMI ready”
- Received \$1.5M Grant to support expedited rollout



Proposed Plan

- 2 Year project rollout (Completion est. Winter 2021)
- Contract support to expedite rollout
- Comprehensive Outreach Plan
 - Notify before, during and after AMI installed for each customer

