Alliance Water Resources, Inc. Operations Update

Martin County Water & Sanitation Districts

Februrary 10, 2021



- Key Accomplishments to Date
- Employee Development
- Quarterly Goals
- Water Loss
- Discussion/Questions



- Conducting monthly meter audits
- Completed 2016, 2017, 2018, 2019 audits
- Created 90-day goals and accomplished 88% in the 1st quarter, 79% in the 2nd quarter, 89% in the 3rd quarter, and 92% in the 4th Quarter.
- New billing software purchased and implemented in July.
- Repaired both paddle wheels in the oxidation ditch
- Identified chemical pumping issues at Inez WWTP and corrected them.

- Repaired pump in Davis Branch (was being pumped daily)
- Have purchased critical operational equipment for regulatory compliance and leak detection
- Cleared blockage on Turkey Creek Sewer
- Developed Meter Reading and Billing SOP
- Repaired Crum Reservoir monument
- Installed 2nd pump at Turkey Booster Station
- 400ft of 4" main installed on Town Point Curve



- Purchased new lab equipment for both Wastewater plants
- New pump and float switches have been installed at the Inez Wastewater plant lift station allowing for redundancy and efficiency
- Tug Valley sludge canisters have been emptied
- Discharge line from Digester 1 at the Tug Valley plant has had a blockage removed
- Installed New Booster Station Building at Cassell Branch



- Installed eyewash station in chemical room of WTP
- 3 Newly Acquired Licenses in the District
- Developed and implemented a Theft of Water SOP
- Rebuilt Inez WWTP drying bed #1
- Installed a new valve on ST RT 2032 to isolate a problem area in Wolfcreek area
- Inventory Control Program
- Cleaned Chlorine Contact Chambers
- Graveled Access Road for Clearwells





Employee Development



PPE and Uniforms

- Fall protection
- Electrical Protective Gear
- Safety Glasses
- Hard Hats
- Reflective Vests
- Uniforms/Steel Toed Boots

Training

- Valve and Hydrant Maintenance
- Flagger
- Electrical Hazards/Arc Flash
- 3 New Licenses Among Staff
- 5 Employees Applying for New Licensing

FIRST QUARTER GOALS - COMPLETED

- New Billing Software purchased To be converted June 2020
- Every Meter Read Staff has gone from 19% discrepancies to less than 1%
- Meter Reading and Billing SOP has been created and is pending board approval
- Reconcile Billing for Meters All accounts have been corrected with proper customer information and information
- 2017 District Audit Complete
- **Security Deposits** All security deposits have been identified and reconciled to the correct customers

FIRST QUARTER GOALS - COMPLETED

- OXIDATION DITCH ROTORS Both rotors have been repaired and are operating
- ► GRINDER PUMPS All grinder pumps have been caught up and staff are continuing to repair pumps as they fail
- NEZ WWTP Influent pump has been installed creating redundancy
- Tank and Booster Station information was collected along with GPS coordinates and pictures
- All District owned vehicles have been inventoried with documentation
- Community project was identified but postponed due to COVID-19



SECOND QUARTER GOALS - COMPLETED

- NEW OR HIGHER LICENSES Identify 4 (6) employees for new or higher licenses to meet or exceed requirements for the system
- ► UPDATE FEE SCHEDULE Update the list of all costs associated with Service Taps and Fees on new installations.
- CANNOT LOCATE METERS Locate and verify all meters that currently cannot or have not been located in some time
- OPS AUDITS Visit each district owned site and conduct an audit
- Rebuild Drying Bed #2 at Inez WWTP
- PUMPING TO THE PRISON Written Plan for maximizing what can be pumped to the prison



SECOND QUARTER GOALS - COMPLETED

- ► INEZ WWTP Rebuild Drying Beds
- MULTI-CUSTOMER METERS Get customers currently sharing a meter on their own tap
- ► AREA METERS Have every customer associated with an area meter
- **BOARD MINUTES** Organize and archive
- Installed 8 new valves in strategic locations to improve distribution system
- TURKEY CREEK Installed 2 New Cleanouts on the Sanitary Sewer Line

THIRD QUARTER GOALS - COMPLETED

- **SOP** Reviewed, Updated, and Created SOP's for Billing Office Procedures (Incode)
- ► TUG VALLEY WWTP pH and DO probe calibration and replacement schedule
- ► BLACKLOG LIFT STATION Both pumps repaired
- ► HODE RD. 2" Water Line Eliminated
- > 292 PUMP STATION Redundant Pump Installed and in Operation
- ► HIGH SERVICE PUMP AIR RELEASE VALVE Replaced leaking valve on pump in treatment plant
- **SANITATION FILES** Organized and filed properly

FOURTH QUARTER GOALS-COMPLETED

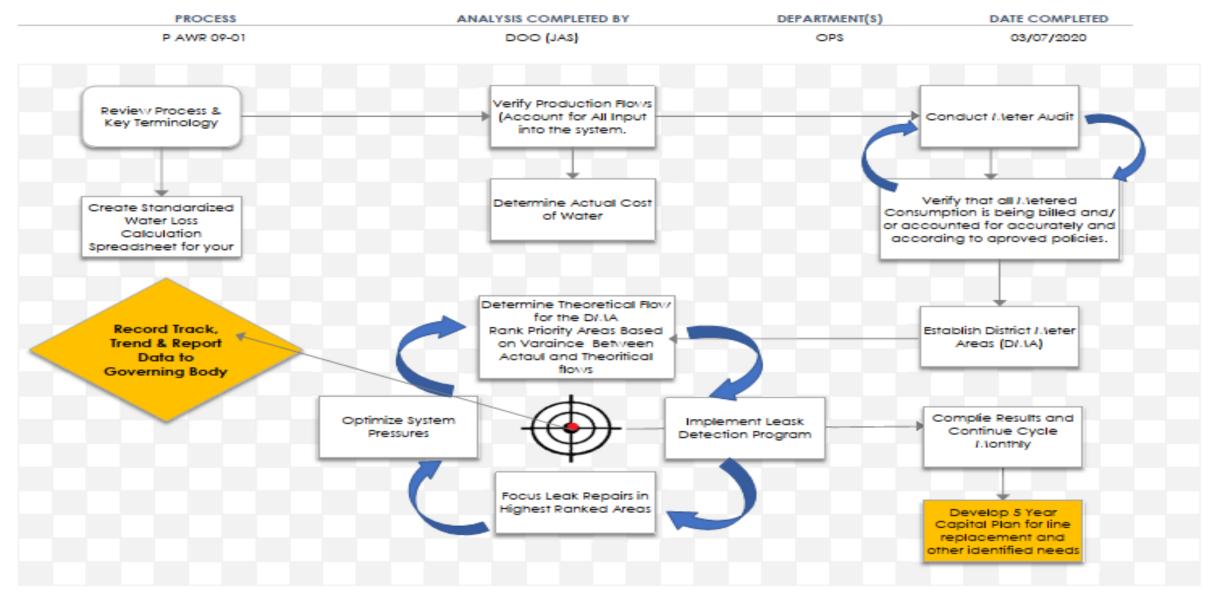
- BILLING OFFICE Office Organized, Files Scanned to Server, Junk and Clutter Eliminated
- ► BLACK LOG LIFT STATION Both Pumps Fully Operational
- WINTER PREP Booster Stations and Lift Stations Inspected and Insulated for Winter
- CASSELL BRANCH Booster Station Building Replaced with Insulated Building
- ▶ BIG LICK BOOSTER Ordered Booster Station Replacement Building
- WATER PLANT Plant Glass Doors Scheduled for Repair
- WATER PLANT Plant Lab Cleaned and Inventoried and Heater Fixed
- ► GRINDER PUMPS A Customer Agreement and SOP was Developed and Approved by the Board of Directors
- WASTEWATER PLANTS Cleaned Exterior of Both Facilities and Organized Equipment

WATER LOSS REDUCTION

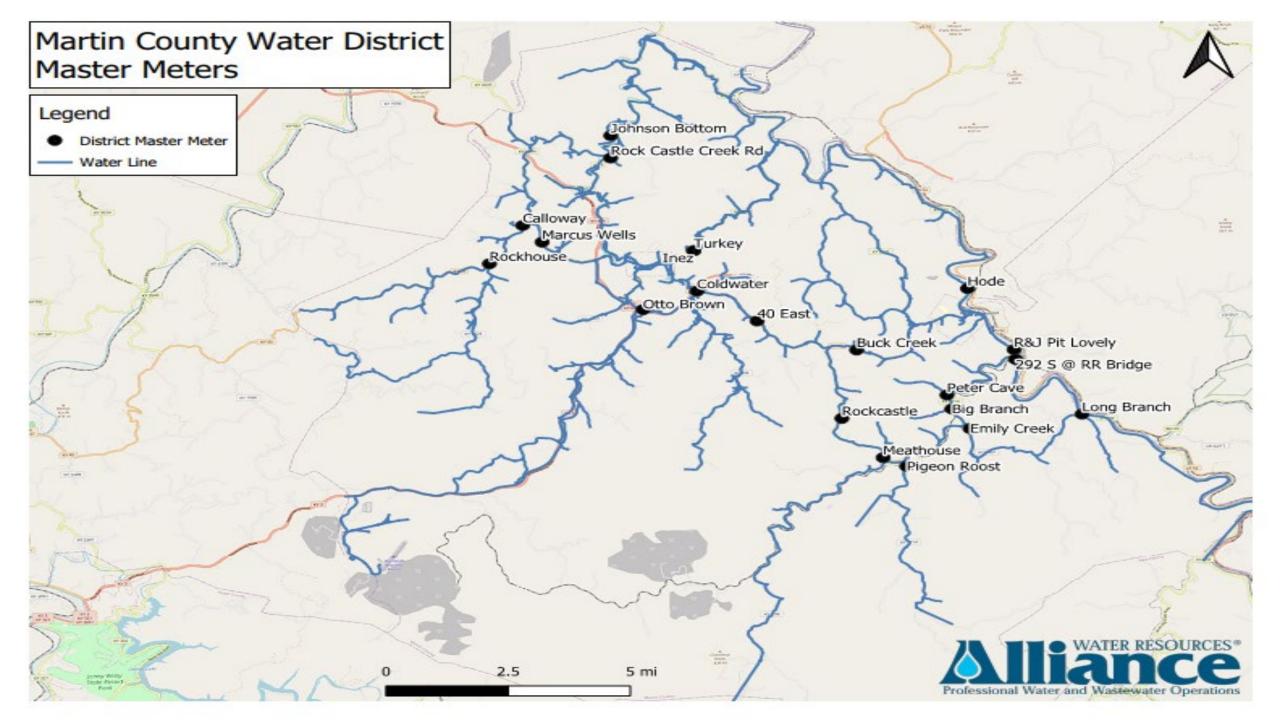
- GIS IMPLEMENTATION
 - District Master Meter Zones Established
 - Customer Meter Location
 - Leak Tracking
 - ► Reported Leaks
 - Active Leaks
 - Repaired Leaks
 - ► Trouble Zones For Replacement
- Water Loss SOP and M36 Manual
 - Strategic approach using GIS, PRV's, and District Meters for Leak Detection
 - Established Leak Detection Team
 - ► Water Meter Replacement

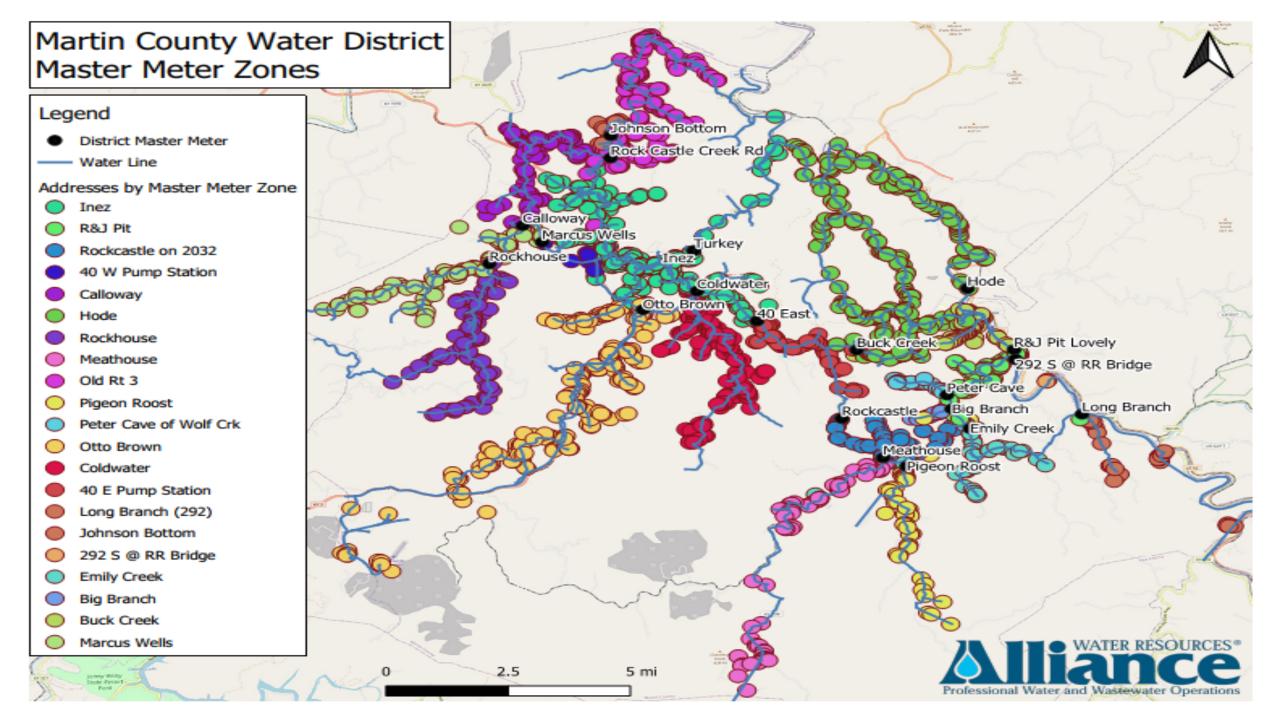
WATER LOSS CONTROL PROGRAM FLOW CHART (FC AWR 09-02)





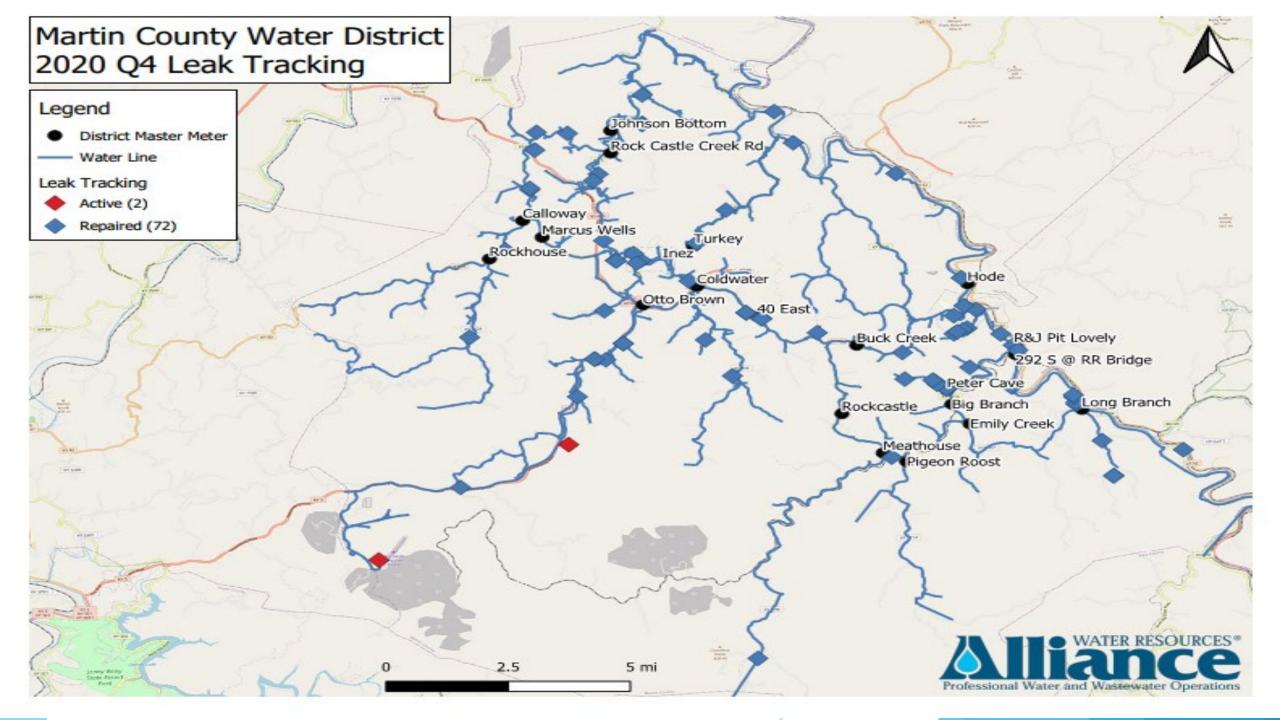
REV DATE: 31MAR20

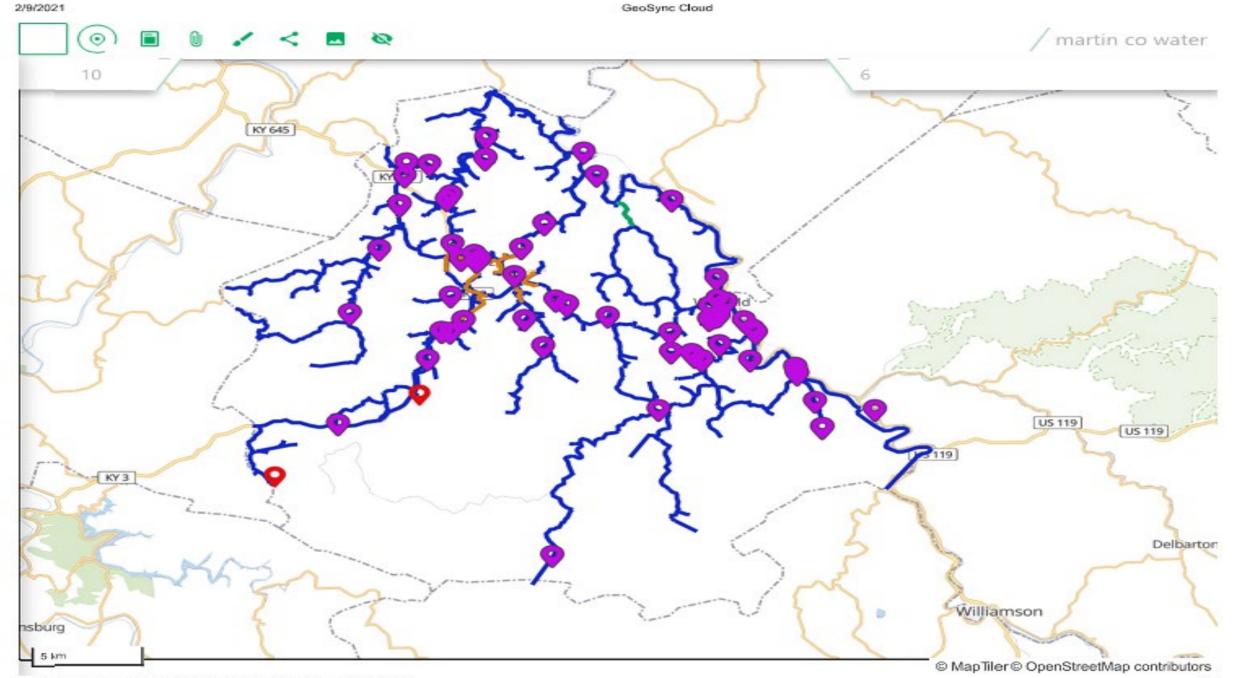




IMPORTANT WATER LOSS NOTES

- Estimated 23 Million Gallons Recovered In the Month of December From Repaired Leaks
- Average of 24 Leaks Per Month
- A Fixed Leak May Present a New Leak
- Water Loss is Occurring Due to 72 Leaks over a 3 Month Period
- Leaks are a Symptom of an Infrastructure Issue
- Finding Weakest Areas and Establishing a Plan for Line Replacement
- Meter Replacement with an AMR/AMI System Would Capture More Accuracy and Free Staff for Leak Repair and Line Replacement







Questions?