Alliance Water Resources, Inc. Operations Update
Martin County Water & Sanitation Districts
November 18, 2020
AGENDA

- Key Accomplishments to Date
- Employee Development
- Quarterly Goals
- Priority Issues
- Discussion/Questions
Key Accomplishments to Date

- Conducting monthly meter audits
- Completed 2016, 2017, 2018 audits
- Created 90-day goals and accomplished 88% in the 1st quarter, 79% in the 2nd quarter, and 89% in the 3rd 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.
Key Accomplishments to Date

- 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
Key Accomplishments to Date

- 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
Key Accomplishments to Date

- 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
Employee Development

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

- Training
  - Competent Person/Trench Safety
  - Flagger
  - Electrical Hazards/Arc Flash
  - Person Safety
  - 3 New Licenses Among Staff
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
- **INEZ 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

- BILLING OFFICE - Organize the Office and Filing
- BLACK LOG LIFT STATION - Repair Pumps for Redundancy
- WINTER PREP - Prepare Booster and Lift Stations, Install New Heaters
- BIG LICK BOOSTER - Repair Building
- CASSELL BRANCH - Repair Building
- WATER PLANT - Schedule for Repair of Plant Glass Doors
- WATER PLANT - Clean, Organize, and Inventory Lab
- GRINDER PUMPS - Create SOP for Grinder Pump Replacement
Water District Priority Issues

• Revenue - Current deficit $50k monthly
  ❖ Winter Prep
  ❖ Accurate Metering

• Water Loss Program
  ❖ Master Meter vs Usage Calculations
  ❖ GIS Implementation

• Radio Read Meters and Meter Replacement

• Water Plant Upgrades
Outstanding Priority Needs - Water

WATER PLANT (Highlighted issues addressed in Contract# 113-19-02)

- Refurbish treatment unit #1; new valve vault & required piping
- Repair filter beds, filter divider walls, repair rake; all new filter media; tube settlers in unit #3; paint; check all bearings, motors and gear boxes
- Need 2 new filter level indicator probes (Filters #4 & #6); one level indicator for clearwell, ethernet card for High Service Pump #2
- Repair #3 filter drain valve
- Replace all 5 online turbidimeters along with software
Outstanding Priority Needs - Water

WATER PLANT (Highlighted issues addressed in Contract# 113-19-02)

- New lab equipment, CL17 chlorine analyzer, bench turbidimeter, chlorine meter, iron and manganese meter.
- Repair roof over the chemical storage room, leaks bad when it rains.
- New chemical feed pumps (2 purchased).
- Install doors that will lead into the valve vaults for unit #2 and unit #3, or a better ladder system.
Outstanding Priority Needs - Sanitation

INEZ WWTP

• One clarifier is out operation, it needs the skimmer repaired, the arms are broken. Need to identify the problem with the drainage system and repair.

• Backup generator needs to be serviced and new fuel tank installed.

• Chemical feed lines need replaced from the chemical building to the effluent chlorine contact chamber.
Outstanding Priority Needs - Sanitation

TUG VALLEY WWTP

- Automatic valves - SBR 2 automatic blow valve, future blower valve and SBR 1 decant valve need to be inspected by a service technician. Had a couple instances in low temperatures the valves failed to open and close properly.

- Backup generator needs serviced (outside service company)

COLLECTIONS SYSTEM

- All Lift Stations need a minimum of two pumps
Questions?