



DUSTIN C. HALEY

August 6, 2026

Public Service Commission
P.O. Box 615
Frankfort, KY 40602

Re: Martin County Water District
PSC Case No. 2020-00154

To Whom It May Concern:

Enclosed please find Martin County Water District's Notice of Filing the August 2026 Infrastructure Replacement Plan.

Thank you for your attention to this matter.

Very truly yours,

KINKEAD & STILZ, PLLC

/s/ Dustin C. Haley

Dustin C. Haley

DH:lrs
Enclosure

pc: Martin County Water District
Hon. Mary Varson Cromer

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COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC MARTIN COUNTY WATER)
DISTRICT MANAGEMENT AND OPERATION)
MONITORING PURSUANT TO KRS 278.250) CASE NO. 2020-00154

NOTICE OF FILING

Comes the Martin County Water District, by counsel, and hereby gives Notice of Filing of
the attached August 2026 Infrastructure Replacement Plan.

Respectfully submitted,

KINKEAD & STILZ, PLLC

/s/ Dustin C. Haley

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***COUNSEL FOR MARTIN COUNTY
WATER DISTRICT***

CERTIFICATE OF SERVICE

This will certify that a true and correct copy of the foregoing was served via electronic filing on
this the 6th day of August, 2026, to the following:

Public Service Commission
P.O. Box 615
Frankfort, KY 40602

Hon. Mary Varson Cromer
Appalachian Citizens' Law Center, Inc.
317 Main Street
Whitesburg, KY 41858

/s/ Dustin C. Haley _____
Dustin C. Haley

**Martin County Water District
387 East Main St.
Inez, KY 41224**



Infrastructure Replacement Plan

**Written by Alliance Water Resources, Inc.
August 2026**



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SECTION I

Introduction, Approach, Executive Summary

Introduction

Effective January 1, 2020, the Martin County Water District (District) contracted with Alliance Water Resources, Inc. (Alliance) to manage and operate the utility. While the District Board of Commissioners retains policy-making and decision-making authority, Alliance is responsible for the day-to-day operation, maintenance, and management of the water system. Since the beginning of the management agreement, Alliance has worked closely with District leadership, regulatory agencies, funding partners, engineers, and staff to address longstanding infrastructure challenges and establish a sustainable path for the future of the utility.

Since 2020, the District has undertaken a significant effort to improve water quality, reduce water loss, modernize operational controls, improve reliability of critical assets, and secure funding for much-needed infrastructure improvements. These efforts have resulted in major advancements in SCADA and telemetry systems, asset management, GIS development, storage tank evaluations, booster station rehabilitation, meter replacement, waterline replacement planning, and implementation of a comprehensive Water Loss Control Program. The District currently has more than \$24 million in funded capital projects either completed, underway, or scheduled for construction, while continuing to identify future infrastructure needs through its Capital Improvement Program (CIP).

This Infrastructure Replacement Plan (IRP) has been developed to document the District's infrastructure improvement efforts, identify remaining critical needs, and establish a framework for future investment. The plan reflects current system conditions, funded projects, operational improvements, and future priorities necessary to provide safe, reliable, and affordable water service to the customers of Martin County.

Approach

This Infrastructure Replacement Plan was developed through a collaborative effort involving District leadership, operations personnel, maintenance staff, engineers, and management. The plan incorporates information obtained through daily system operations, asset condition assessments, water loss investigations, storage tank inspections, booster station evaluations, capital project development, GIS mapping, and ongoing preventative maintenance activities. The District's approach emphasizes data-driven decision making and prioritization of projects that provide measurable improvements in reliability, water quality, operational efficiency, and water loss reduction.

Since 2020, Alliance has significantly expanded the District's understanding of its assets through implementation of GIS mapping, condition assessments, telemetry improvements, SCADA integration, booster station audits, and development of a comprehensive asset management framework. Operational data gathered from these efforts has been used to identify infrastructure deficiencies, evaluate risks, prioritize replacement needs, and support funding applications for critical projects. The District has also implemented recurring inspections of booster stations, storage tanks, treatment facilities, and distribution assets to ensure infrastructure conditions are accurately documented and proactively managed.

A key component of this approach is the District's ongoing development of a comprehensive Water System Master Plan. The Master Plan, which is already funded and currently underway, will provide a detailed engineering analysis of treatment, storage, transmission, distribution, pumping, and control systems throughout the utility. The Master Plan will serve as a living document that can be reviewed and updated to reflect changing conditions, completed projects, new funding opportunities, and evolving operational priorities. Together, this Infrastructure Replacement Plan, the Capital Improvement Program, and the Water System Master Plan provide a coordinated strategy for long-term infrastructure management and investment.

Executive Summary

Since assuming management responsibilities in 2020, Alliance Water Resources and the Martin County Water District have made substantial progress toward stabilizing and modernizing the utility's infrastructure. Improvements have focused on four primary areas: water quality, water loss reduction, system reliability, and asset management. Through strategic investment, operational improvements, and successful pursuit of external funding, the District has transitioned from a reactive approach to infrastructure management toward a proactive, data-driven model focused on long-term sustainability.

One of the District's most significant achievements has been the implementation of a comprehensive Water Loss Control Program. Through leak detection efforts, GIS development, asset management improvements, advanced metering initiatives, infrastructure replacement projects, and operational controls, water loss has been reduced from historic levels approaching 75 percent to annual results of approximately 52 percent in 2025, with monthly performance as low as 45 percent during 2026. At the same time, annual water production has decreased by approximately 167 million gallons per year compared to 2020 levels, resulting in significant reductions in treatment, pumping, and operational costs while continuing to meet customer demand.

The District has also significantly improved its operational capabilities through implementation of modern SCADA and telemetry systems. Today, all booster stations and storage tank facilities are monitored remotely through an upgraded telemetry network, allowing operators to maintain full control of pumping facilities directly from the Inez Water Treatment Plant. Battery backup systems, flood alarms, SCADAWeb remote access, upgraded instrumentation, and improved communications infrastructure have strengthened system reliability, emergency response capabilities, and operational awareness throughout the distribution system. Multiple booster stations have received mechanical, electrical, and control improvements, while comprehensive inspection and maintenance programs have been implemented to support long-term reliability.

In addition, the District has completed storage tank inspections throughout the system and secured funding to address many identified deficiencies. The Turkey Tank Rehabilitation Project and Tank Inspection and Painting Program will address critical maintenance and rehabilitation needs while extending asset life and improving system reliability. Numerous waterline, booster station, treatment plant, and storage facility projects have also been funded or identified through the Capital Improvement

Program. These projects collectively represent a long-term commitment to replacing aging infrastructure, improving water quality, reducing water loss, increasing redundancy, and enhancing resiliency throughout the water system.

Looking forward, the District's funded Water System Master Plan will provide a comprehensive engineering evaluation of all major system assets and establish a roadmap for future investment. The Master Plan will integrate treatment, storage, transmission, distribution, booster station, water loss, and asset management initiatives into a single planning document that can be reviewed and updated regularly. This process will ensure that infrastructure decisions remain aligned with changing operational needs, regulatory requirements, available funding opportunities, and the District's long-term goal of providing safe, reliable, and affordable water service to the citizens of Martin County.

SECTION II

Water Treatment Plant

Completed Water Treatment Plant Improvements (2020-2026)

Since 2020, the Martin County Water District has completed substantial improvements to the Inez Water Treatment Plant to improve water quality, operational reliability, treatment redundancy, safety, and regulatory compliance. Significant investments have been made in all three treatment units, chemical feed facilities, laboratory equipment, SCADA controls, and emergency power systems. These improvements have restored critical treatment infrastructure, modernized operations, and strengthened the District's ability to consistently provide safe drinking water to its customers.

Clarifier Unit No. 1 Rehabilitation

Clarifier Unit No. 1 underwent a comprehensive rehabilitation that returned a previously underutilized treatment unit to full operational status. Improvements included construction of a new valve vault with new piping, valves, actuators, and flow meters. Filters No. 1 and No. 2 received new filter media, while the clarifier basin was sandblasted and recoated to prevent further deterioration. New drive and mixer motors, rake drive shafts, bearings, and chains were installed to restore mechanical reliability. Additional upgrades included new lighting, electrical control panels, filter influent valves, head loss indicators, tube settlers, chemical feed piping, and a new sludge waste valve. The unit is now dropped, cleaned, and inspected annually as part of the District's preventative maintenance program.

Clarifier Unit No. 2 Rehabilitation

Clarifier Unit No. 2 also received extensive upgrades to improve filtration performance and reliability. Filter media was replaced in Filters No. 3 and No. 4, and underdrain repairs were completed in Filter No. 4. Mechanical improvements included installation of new rake drive bearings and chain assemblies, rebuilding of the sludge waste valve, and rehabilitation of the mixer motor. The clarifier basin was sandblasted and recoated, and all associated flow meters were calibrated to improve process monitoring and operational accuracy. The unit is now incorporated into the annual cleaning and inspection program.

Clarifier Unit No. 3 Rehabilitation

Clarifier Unit No. 3 was rehabilitated through replacement of filter media in Filters No. 5 and No. 6, installation of a new mixer motor, replacement of rake drive bearings and chains, and calibration of associated flow meters. The clarifier basin was sandblasted and recoated, and new tube settlers were installed to improve treatment efficiency and settling performance. These improvements have increased reliability while improving finished water quality and treatment capacity.

Chemical Building and Facility Improvements

Several critical facility improvements have been completed to improve safety and extend the useful life of plant infrastructure. The roof over the chemical storage room was replaced, and new safety handrails were installed to improve employee access and fall protection.

The chemical storage area also underwent significant modernization. Existing chlorine bulk tanks, day tanks, chemical piping, and associated valves were replaced. New containment systems were installed to improve chemical handling safety and environmental protection, while chemical metering pumps were replaced to ensure more reliable and accurate chemical dosing throughout the treatment process.

Laboratory and Water Quality Improvements

The District has continued investing in water quality monitoring and laboratory equipment to improve regulatory compliance and treatment optimization. Two online turbidimeters have been replaced, providing improved monitoring of filter performance and finished water quality. In addition, a new online chlorine analyzer, pH meter, and chlorine meter have been installed, enhancing the plant's ability to continuously monitor key treatment parameters and respond quickly to changing source water conditions.

SCADA and Control System Improvements

Significant improvements have been made to the plant's control systems and automation infrastructure. The plant SCADA workstation was replaced and reprogrammed, providing operators with improved monitoring and operational capabilities. In addition, the Variable Frequency Drive (VFD) for High Service Pump No. 2 was replaced and programmed to improve pumping efficiency, reliability, and operational flexibility.

These improvements have been integrated into the District's broader SCADA and telemetry modernization efforts, which now provide operators with enhanced visibility and control of treatment and distribution system assets throughout the county.

Emergency Power Improvements

To improve resiliency during electrical outages, a new backup generator has been installed at the treatment plant. The generator is capable of operating all critical treatment plant equipment during power interruptions, ensuring continued water production and distribution during emergency events. This investment significantly improves the District's preparedness for severe weather events and utility power disruptions while protecting water quality and service continuity.

Collectively, these improvements have transformed the Inez Water Treatment Plant from a facility facing significant infrastructure challenges into a more reliable, efficient, and sustainable operation. Combined with planned future treatment projects identified in the Capital Improvement Program and the forthcoming Water System Master Plan, these investments provide a strong foundation for maintaining high-quality drinking water service throughout Martin County for years to come.

Future Water Treatment Projects

Project	Cost
Inez Water Treatment Plant Improvements	\$3.88M
Filter #5 Repair	\$500K
Water System Controls/Raw Water Modifications Phase III	\$3.84M
High Service Pump Replacement	\$850K
Sludge Management Facility	\$500K
Copper Sulfate Feed System	\$100K
Turkey Creek Pump Redundancy	\$100K
Replace Inez Water Treatment Plant	\$45.0M

Inez Water Treatment Plant Improvements

The District has identified a comprehensive Inez Water Treatment Plant Improvements Project with an estimated cost of **\$3.88 million**. This project would address the impact of aggressive source water conditions and low Langelier Saturation Index (LSI) values that have contributed to deterioration of treatment facilities and components. Planned improvements include replacement and modernization of chemical feed systems, treatment controls, and related treatment-process infrastructure. The project is considered a major priority for sustaining treatment performance and protecting water quality.

Filter No. 5 Rehabilitation

One of the most critical treatment-related needs identified in the Capital Improvement Program is rehabilitation of Filter No. 5, estimated at **\$500,000**. Severe corrosion has been observed within the filter structure due to long-term exposure to aggressive water chemistry. The deterioration of embedded metal components has negatively affected filter performance and can contribute to elevated finished-water turbidity. Rehabilitation of this filter will improve treatment efficiency and maintain compliance with water quality objectives.

Water System Controls and Raw Water Modifications - Phase III

The District has identified a future treatment and source-water improvement project valued at approximately **\$3.84 million**. This project includes rehabilitation of Clarifier No. 2, modifications at the raw water intake facility, valve improvements at the reservoir, and related infrastructure improvements. Completion of this project will improve treatment redundancy, strengthen source-water reliability, and support operational efficiency across the treatment system.

Water Treatment Plant High Service Pump Replacement

The Capital Improvement Program identifies replacement of the treatment plant's high-service pumping equipment at an estimated cost of **\$850,000**. These pumps have accumulated significant operating hours and are approaching the end of their useful service life. Replacement of the existing pumps will improve reliability of treated-water delivery to the distribution system and reduce the risk of service interruptions resulting from equipment failure.

Sludge Management Improvements

The Capital Improvement Program also includes a Sludge Management Project estimated at **\$500,000**. The project would construct facilities necessary to improve handling and management of residual solids generated during the treatment process. Enhanced sludge management capabilities would improve operational efficiency, reduce environmental risks, and support regulatory compliance.

Copper Sulfate Feed System at Reservoir

The District has identified installation of a Copper Sulfate Feed System at the Reservoir as a priority water quality improvement project with an estimated cost of **\$100,000**. This project will provide operators the ability to treat source water directly within the reservoir before it enters the treatment process. The primary objective is to improve management of algae growth, taste and odor events, and other source water quality issues that can negatively impact treatment plant operations and finished water quality. The Copper Sulfate Feed System complements other planned treatment projects, including raw water intake improvements, treatment plant upgrades, filter rehabilitation, and control system modernization. Together, these projects support the District's goals of improving water quality, increasing operational reliability, and enhancing long-term sustainability of the water treatment system.

Turkey Creek Pump Redundancy Project

The District has identified a Turkey Creek Pump Redundancy Project estimated at **\$100,000**. The existing configuration relies on a single pump to convey water from the treatment plant, creating a vulnerability in system operations. Providing a redundant pumping unit will improve reliability, ensure continuity of service during maintenance activities, and reduce operational risk associated with equipment failures.

Long-Term Water Treatment Plant Replacement

While still in the planning stage, the District has identified the eventual replacement of the existing Inez Water Treatment Plant as a long-term capital priority with an estimated cost of **\$45 million**. The current facility is approximately 58 years old and has experienced extensive corrosion and structural deterioration from decades of treatment operations. Although replacement is not currently funded, the project demonstrates the District's recognition that sustained investment will ultimately be required to ensure long-term reliability and regulatory compliance.

Summary

Collectively, the funded and planned treatment-related projects focus on:

- Improving raw water reliability and intake performance.
- Modernizing treatment processes and controls.
- Addressing corrosion-related deterioration within plant facilities.
- Increasing operational redundancy.
- Enhancing treatment plant monitoring and automation.
- Improving residuals management.
- Preparing for eventual replacement of aging treatment infrastructure.

These projects represent the District's ongoing commitment to maintaining water quality, improving reliability, reducing operational risks, and establishing a sustainable framework for future treatment system improvements.

SECTION III

Distribution System

Water Loss Program Status

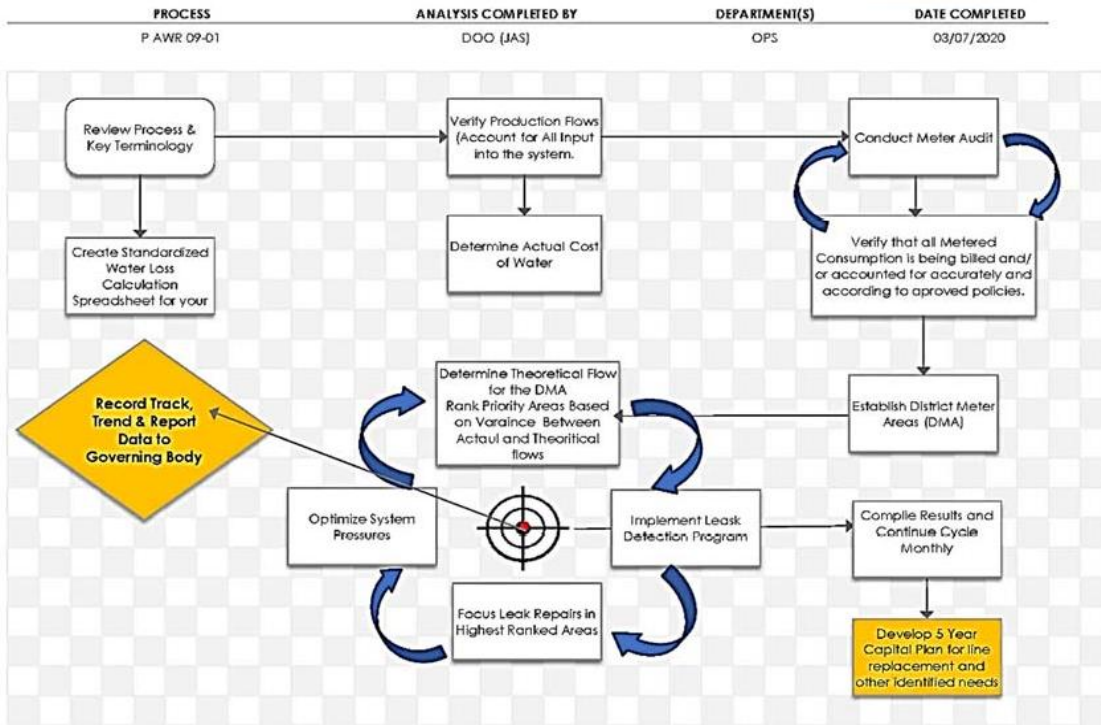
Since assuming management of the system in January 2020, Alliance Water Resources has implemented a comprehensive Water Loss Control Program focused on leak detection, infrastructure replacement, GIS-based asset management, advanced metering, pressure management, and operational accountability. Through the implementation of GIS, operators now have improved awareness of water mains, valves, hydrants, meters, pressure zones, and leak-prone areas, allowing staff to make data-driven decisions regarding maintenance activities and capital investments. Combined with a dedicated leak detection program and targeted infrastructure improvements, these tools have significantly improved the District's ability to identify and address sources of non-revenue water.

The results of these efforts are reflected in the District's water loss performance. Annual water loss has declined from historic levels exceeding 75 percent to approximately 52.3 percent in 2025, while 2026 year-to-date performance has averaged approximately 49.1 percent. The District achieved a low monthly water loss percentage of 45.3 percent in June 2026, representing the best documented performance since Alliance assumed management of the system.

Equally important, the District has substantially reduced the volume of water that must be treated and pumped. Annual treatment plant production declined from roughly 645 million gallons in 2020 to 478 million gallons in 2025, a reduction of approximately 167 million gallons per year, or nearly 460,000 gallons per day. These reductions have lowered chemical, power, and operational costs while maintaining service to customers throughout the system.

While water loss remains one of the District's highest priorities, the progress achieved since 2020 demonstrates a transition from reactive operations to proactive asset management. Continued investments in GIS technology, advanced metering infrastructure, system monitoring, pressure management, and strategic infrastructure replacement are expected to further reduce non-revenue water and improve the long-term sustainability of the water system.

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

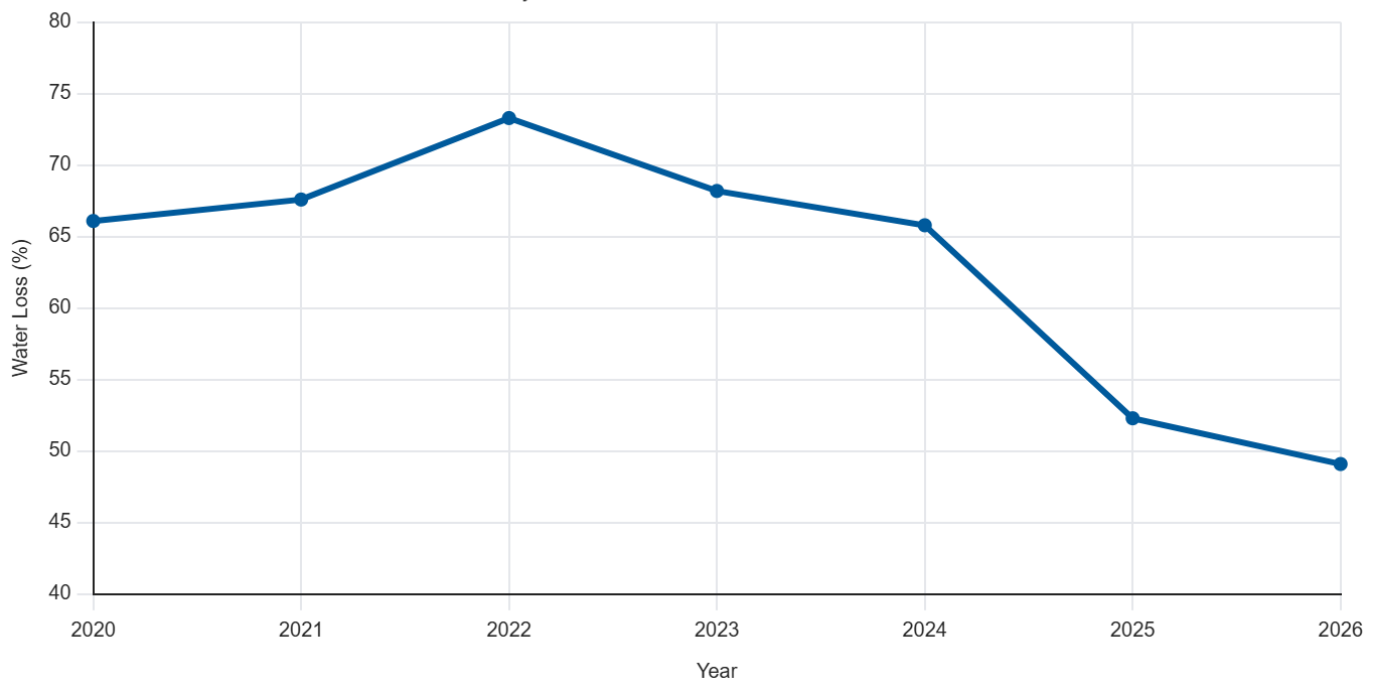


REV DATE: 31MAR20

REV BY: JAS



Martin County Water District Water Loss Reduction Trend



Scada and Telemetry System Improvements

Since 2020, the Martin County Water District has made substantial investments in its Supervisory Control and Data Acquisition (SCADA) and telemetry systems to improve operational reliability, system monitoring, emergency response capabilities, and overall distribution system management. The original Infrastructure Replacement Plan identified the lack of SCADA and remote monitoring capabilities as a significant operational deficiency that limited the District's ability to effectively monitor storage facilities, booster pump stations, pressures, and system operations.

A major milestone in addressing these deficiencies was the completion of telemetry and control system improvements associated with the District's SCADA capital projects, including the 292 Booster Pump Station improvements and the Water System Telemetry Project. These investments significantly expanded the District's ability to remotely monitor and control critical system assets throughout the distribution system.

The telemetry project also included implementation of SCADAWeb remote monitoring, providing secure access to system information through smart phones, tablets, and other mobile devices. This capability allows management personnel, supervisors, and distribution staff to remotely view real-time operating conditions, alarm notifications, tank levels, pump statuses, and station performance from anywhere with an internet connection. The addition of mobile monitoring has improved situational awareness, enhanced after-hours response capabilities, and strengthened operational oversight across the entire water system. Alliance's IT Department provides oversight of the District's SCADA cybersecurity protocol, and the field staff receives ongoing cybersecurity training to minimize risks associated with online SCADA.

In addition to the capital projects, Alliance utilized a SCADA maintenance contract to proactively modernize and rehabilitate existing control infrastructure at booster stations and tank sites throughout the system. Through this effort, numerous critical components have been replaced, including control boards, pressure transducers, radios, antennas, communication cables, and associated monitoring equipment. This approach allowed the District to improve reliability while minimizing costs compared to full system replacement.

As a result of these improvements, the District now maintains full remote monitoring and operational control of all booster pump stations directly from the Inez Water Treatment Plant. Operators can monitor tank levels, station status, pump operation, system pressures, alarms, and communication status in real time, allowing for quicker response to operational issues, improved pressure management, and enhanced water loss reduction efforts.

To further enhance system resiliency, battery backup systems have been installed at all booster stations and telemetry sites, allowing communication and monitoring capabilities to remain operational during electrical outages. Flood alarm systems have also been installed at all underground booster pump stations to provide immediate notification of flooding events that could damage equipment or interrupt service. These improvements have significantly increased the District's ability to respond to emergencies and reduce the risk of extended system outages.

The District has also invested in a new SCADA workstation and monitoring computer at the water treatment plant to support system-wide control and monitoring functions. Together, these SCADA and telemetry improvements have transformed the District's operational capabilities by improving reliability, communications, emergency preparedness, water loss management, and overall system efficiency while providing a solid foundation for future automation and monitoring enhancements.

Booster Station Improvements

Since 2020, the Martin County Water District has made significant investments in booster station reliability, redundancy, operational controls, and preventative maintenance. These efforts have focused on reducing service interruptions, improving pressure management, supporting water loss reduction initiatives, and preparing critical infrastructure for future capital improvements. Several major booster station projects are currently funded through the District's Capital Improvement Program and are scheduled for construction in 2026 and 2027, including improvements at Otto Brown, Davella, 292, Buffalo Horn, Big Elk, Peter Cave, Big Lick, Cassell Branch, Meathouse, and other critical facilities.

Upcoming Capital Improvements

The District has identified numerous booster station improvement projects through its Capital Improvement Program (CIP). The following projects are either funded or have been identified for future funding and implementation.

Funded Capital Projects

Davella Road Pump Station and Line Replacement (\$6.47 Million)

This project will replace aging infrastructure, address the station's lack of pumping redundancy, install modern controls, provide additional reliability, improve pumping capacity, and replace waterline infrastructure between Davella Road and the pump station. The station currently has a rebuilt pump, new motor, and repaired HVAC system, but additional improvements are needed to ensure long-term reliability.

Otto Brown Booster Station, Middle Fork Improvements (\$2.0 Million)

This project will provide redundancy at the Otto Brown Booster Station and improve the ability to deliver water throughout the pressure zone. Recent improvements include installation of a new motor, a new jockey pump, and rebuilding of the station control valve. The funded project will fully address long-term redundancy and pumping capacity concerns including a new above ground station.

Peter Cave Booster Station (Old Route 3 Phase I Project – 2.5 Million)

Peter Cave currently operates with only one pump and one motor and lacks redundancy. The funded Old Route 3 Phase I Water Improvement Project will address this deficiency and improve reliability within the pressure zone.

292 Booster Station and Water Line Replacement (\$964,850)

Although the station currently has pumping redundancy and recently received SCADA and telemetry upgrades, it remains an underground facility. This funded project will replace the existing station with a new above-ground booster station, improving operational safety, flood protection, maintainability, and system reliability.

Identified CIP Projects

The following booster station projects have been identified through the District's Capital Improvement Plan as future priorities and funding opportunities:

Buffalo Horn Booster Station Rehabilitation (\$2.19 Million)

Future improvements will provide additional redundancy, improved controls, flow monitoring capabilities, and enhanced operational reliability. The station currently has redundancy, a new starter, and a new motor.

Big Elk Booster Station Rehabilitation (\$2.43 Million)

Future improvements will address station redundancy and system reliability. The station recently received a new motor, and an additional motor has been retained for rebuilding as a spare unit.

Big Lick Booster Station Rehabilitation (\$1.88 Million)

This project will provide redundancy, SCADA improvements, and modernization of station equipment. Current improvements have enabled automatic operation during power outage conditions, but additional reliability improvements remain necessary.

Cassell Branch Booster Station Rehabilitation (\$1.57 Million)

Similar improvements are planned to address redundancy, communications, SCADA enhancements, and long-term reliability. Current operations have been improved through automatic outage response capabilities.

Meathouse Booster Station Rehabilitation & Line Replacement (\$7.65 Million)

This project will address distribution system deficiencies, provide station redundancy, improve communications, add backup power capabilities, and enhance SCADA integration. Current conditions mirror those at Big Lick and Cassell Branch.

Turkey Booster Station Improvements (\$100,000)

Although the station currently operates with redundancy, future CIP projects have been identified to improve overall reliability and operational flexibility within this critical pumping corridor. The equipment is past its useful life expectancy.

These planned investments will continue the District's strategy of improving redundancy, resiliency, operational efficiency, and system reliability while reducing service interruptions and supporting ongoing water loss reduction initiatives.

Asset Management and Preventative Maintenance Program

To support long-term reliability, Alliance Water Resources has completed comprehensive inspections and condition assessments of all booster pumping stations. Electrical systems, mechanical equipment, generator capabilities, controls, motors, valves, pumps, and critical operational components have been documented and compiled into system asset inventories.

These assets are being incorporated into Alliance's computerized maintenance management system (CMMS) and overall Asset Management Program, which establish recurring preventative maintenance schedules, generate work orders, track equipment history, document repairs, and provide operators with the ability to print maintenance procedures and equipment-specific documentation. This program will improve consistency of maintenance activities and support data-driven capital planning.

In addition, Alliance has implemented a weekly booster station inspection program under its maintenance management system. Stations are routinely inspected for mechanical performance, electrical issues, control system functionality, SCADA communications, security concerns, and overall operating condition. These recurring inspections have significantly improved Alliance's ability to identify issues before failures occur and have become a critical component of the system's preventative maintenance strategy.

Waterline Replacement Improvements

Since 2020, the Martin County Water District has focused significant effort on identifying and replacing aging water mains and service lines that contribute to excessive water loss, service interruptions, pressure deficiencies, and operational inefficiencies. Many portions of the distribution system contain aging water mains, deteriorated service connections, and infrastructure installed using outdated materials and construction practices. The District's Capital Improvement Program and active project portfolio have been developed to systematically replace these assets while improving reliability, reducing non-revenue water, increasing system redundancy, and enhancing operational flexibility.

The District recently completed the **Collins Creek Waterline Replacement Project**, which replaced aging infrastructure in a historically leak-prone area of the system. The project improved reliability, reduced maintenance demands, and supported ongoing water loss reduction efforts through replacement of deteriorated water mains and associated system components.

Funded Waterline Replacement Projects

Coldwater Line Replacement Phase I (\$5.0 Million)

This project is designed to eliminate multiple parallel water mains and reconnect customers onto a simplified distribution network. Existing jumpers and multiple feed paths make water loss difficult to identify and manage. The project will improve isolation capabilities through additional valves, reduce non-revenue water, and improve operational control of the pressure zone. Construction is currently scheduled through 2027.

Old Route 3 Water Improvement Project Phase I (\$2.533 Million)

This project includes replacement of aging water mains, removal of undersized 3-inch waterlines, improvements along Mudford Road and Peter Cave Branch Road, relocation of service connections where necessary, and booster station improvements. These upgrades will improve fire protection, flow capacity, reliability, and water loss management throughout the corridor.

Route 40 East Water Improvement Project (\$975,000)

This project replaces aging water mains and associated service infrastructure while simplifying the distribution network and improving system isolation. The project is

intended to reduce water loss, improve reliability, and enhance operational control of the service area.

Middle Fork / Otto Brown Line Replacement Project (\$2.0 Million)

This project will improve transmission capacity between critical pressure zones, replace aging infrastructure, improve service reliability, and support the operational improvements occurring at the Otto Brown and Davella pump stations.

Future Water Main and Service Line Replacement Priorities

Inez Water Line and Valve Replacement (\$5.0 Million)

This project will replace one of the oldest sections of the District's infrastructure, including aging asbestos-cement water mains and associated service connections. The project will also replace inoperable valves and install additional valves to improve leak isolation, pressure management, and maintenance activities.

Water Treatment Plant to Turkey Tank Waterline Replacement (\$6.822 Million)

This project will replace aging transmission mains that have experienced repeated leaks and operational issues. The project also includes installation of additional valves, system metering, and replacement of associated service connections where necessary to support long-term water loss reduction efforts.

Coldwater Line Replacement Phase II (\$3.419 Million)

Phase II will continue replacement of aging water mains and associated service lines while eliminating problematic interconnections that complicate water accountability and leak detection efforts.

Old Route 3 Water Improvement Projects Phases II-IV (Approximately \$10.5 Million Combined)

These future phases will continue replacement of aging six-inch water mains, install new hydrants and valves, and relocate customer service lines and meters to accessible rights-of-way. These improvements will significantly improve maintenance access, leak detection capabilities, and long-term system reliability.

Hode Water Line Replacement (\$5.226 Million)

This project will replace both water mains and customer service lines throughout the entire pressure zone. The project is expected to significantly reduce water loss, improve water quality, reduce maintenance costs, and improve system reliability.

Wolf Creek / Pigeon Roost Water Line Replacement (\$1.315 Million)

This area has experienced recurring main breaks and service interruptions. The project includes replacement of deteriorated water mains and service connections to improve reliability and reduce ongoing maintenance costs.

645 Water Line Replacement and Booster Station Rehabilitation (\$1.255 Million)

This project will replace aging water mains within the pressure zone while supporting future booster station improvements, improved redundancy, and enhanced water loss management capabilities.

Buffalo Horn, Big Elk, Peter Cave, Big Lick, Cassell Branch, and Meathouse Water Line Replacement Projects

These projects include replacement of aging distribution mains and associated service lines, while also supporting booster station rehabilitation projects. Together, these improvements will address recurring leaks, improve pressure management, enhance redundancy, modernize infrastructure, and support the District's long-term water loss reduction strategy.

Water Main and Service Line Replacement Strategy

The District's infrastructure replacement program is focused on both water mains and customer service lines because aging service lines can contribute significantly to non-revenue water, customer service issues, and maintenance costs. Future projects are designed to:

- Replace leak-prone water mains and deteriorated service lines.
- Reduce non-revenue water and support Water Loss Control Program objectives.
- Improve pressure management and system reliability.
- Increase system isolation through installation of additional valves and meters.
- Relocate service lines and meters to improve accessibility and maintenance efficiency.
- Support long-term asset management and infrastructure planning efforts.

Collectively, these projects represent the largest coordinated water main and service line replacement effort in Martin County Water District history and are expected to produce substantial improvements in reliability, water loss reduction, customer service, and operational sustainability over the coming decade.

Water Storage Facilities

Since assuming management of the Martin County Water District, Alliance has significantly improved the monitoring, reliability, security, and maintenance of the District's water storage facilities. In conjunction with the Telemetry and SCADA Improvement Project, all storage tank telemetry systems have been upgraded to provide reliable real-time monitoring of tank levels from the Inez Water Treatment Plant. Previously, several locations experienced monitoring limitations due to failed instrumentation and communications equipment. Today, all tank level indicators are operational and integrated into the District's SCADA system, providing operators with continuous visibility of system storage levels and improving overall operational control.

To improve reliability during electrical outages, battery backup systems have been installed at all tank telemetry locations. These upgrades allow communication and monitoring functions to remain operational during utility power interruptions, enhancing the District's ability to maintain situational awareness and respond to emergencies. In combination with the SCADAWeb platform, operators, supervisors, and management personnel can remotely monitor tank levels, alarms, and system status through smart devices and mobile applications regardless of their location.

Alliance has also established a comprehensive tank site inspection and auditing program. Each storage facility is routinely evaluated for security, site condition, signage compliance, accessibility, telemetry functionality, fencing, lighting, and general maintenance needs. These audits provide valuable information for asset management planning and ensure that deficiencies are identified and corrected before they become major operational concerns. Findings from these inspections have been incorporated into the District's infrastructure planning efforts.

Another major focus has been improving access to storage facilities throughout the system. Historically, several tank sites were difficult to reach due to deteriorated roads, drainage problems, vegetation growth, and limited maintenance access. Alliance has completed numerous access improvements and continues to prioritize site accessibility as part of its ongoing maintenance

and capital improvement efforts. Improved access allows for safer inspections, faster emergency response, more efficient maintenance activities, and better support of future tank rehabilitation projects. Many of the recommendations contained within the 2026 Tank Needs Assessment also include additional access road improvements that will continue to enhance the District's ability to maintain these critical assets.

These operational improvements, combined with the funded Turkey Tank Rehabilitation Project (\$681,000) and the funded Tank Inspection and Painting Project (\$769,210), provide the District with a strong framework for improving storage facility reliability, extending asset life, enhancing water quality protection, strengthening emergency preparedness, and supporting long-term asset management objectives.

As part of the District's asset management and infrastructure planning initiatives, comprehensive storage tank inspections and condition assessments were completed in 2026 to identify immediate deficiencies, future rehabilitation needs, and long-term capital requirements.

The assessment identified a variety of maintenance and rehabilitation needs throughout the system, including roof repairs, vent replacements, tank cleanouts, foundation repairs, access road improvements, cathodic protection, lightning protection, overflow modifications, level indicator repairs, safety improvements, interior and exterior coating repairs, and site security enhancements. District-wide, the assessment identified approximately \$47,700 in emergency needs, \$94,375 in urgent needs, and approximately \$370,775 in additional rehabilitation needs, excluding several tank roof replacement projects and structural evaluations that require further engineering review.

Funded Tank Rehabilitation Projects

The District has already secured funding to address a substantial portion of these storage facility needs. The most immediate project is the Turkey Tank Rehabilitation Project, a funded capital project valued at approximately **\$681,000**, which is scheduled to begin construction in the near future. This project will address identified structural, coating, safety, and security deficiencies while extending the useful life of this critical storage facility. The

project includes repairs identified during recent tank inspections and will significantly improve reliability and operational flexibility.

In addition, the District has secured funding through the Tank Inspections and Painting Project, which provides approximately **\$769,210** for rehabilitation, repair, and coating work throughout the storage tank system. This funding was specifically pursued and is intended to address many of the deficiencies identified during the assessment process, including coating failures, structural repairs, maintenance deficiencies, safety improvements, and other recommended corrective actions.

The District expects these funded projects to significantly improve tank reliability, water quality protection, regulatory compliance, asset longevity, and operational efficiency while reducing future maintenance costs and minimizing the likelihood of emergency repairs. These improvements also support the District's ongoing water loss reduction initiatives by improving storage monitoring, overflow control, and system operations.

Martin County Water District Water Storage Tank Needs Assessment

7/15/2026

Tank	Emergency Needs	Urgent Needs	Other needs	Cost
292 Tank	Replace the existing vent with a new pressure-vacuum-screened vent			\$ 4,850
292 Tank		Clean out tank		\$ 3,850
292 Tank			Site work, pressure wash & seal foundation, valve/screen repair, signage, pressure wash tank	\$ 30,925
645 Tank	Install 6" round patch over hole in roof			\$ 650
645 Tank		Clean out tank		\$ 3,850
645 Tank			repair access road, repair cracks and bug holes, seal foundation, electrically ground tank for lightning protection, repair level indicator, install flapper and screen on overflow pipe, signage, install swing gate at shell/ladder junction, install cathodic protection, pressure wash interior	\$ 30,125
Airport Tank	Replace the existing vent with a new pressure-vacuum-screened vent			\$ 4,850
Airport Tank		Clean out tank		\$ 4,850
Airport Tank			repair access road, pressure wash & seal foundation, electrically ground tank for lightning protection, repair level indicator, install flapper valve/screen on overflow pipe, signage, install swing gate at shell/ladder junction, pressure wash interior and exterior, install cathodic protection, repair inlet pipe support bracket	\$ 50,200
Big Elk Road Tank	Replace vent			\$ 4,850
Big Elk Road Tank		Clean out tank		\$ 3,850
Big Elk Road Tank			Repair access road, clean/seal foundation, electrically ground for lightning protection, repair level indicator, reconfigure overflow pipe, place signage	\$ 11,725
Big Elk Road Tank	Replace roof	Conduct structural evaluation		unknown
Buck Creek Tank		Pressure wash interior & seal existing leak		\$ 31,250

Martin County Water District Water Storage Tank Needs Assessment
7/15/2026

Tank	Emergency Needs	Urgent Needs	Other needs	Cost
Buck Creek Tank			Repair access road, site work, pressure wash/seal foundation, electrically ground for lightning protection, repair level indicator, install flapper valve and screen on overflow pipe, place signage, install swing gate at ladder/shell junction, install cathodic protection, clean out tank	\$ 20,050
Buffalo Horn Tank	Disconnect pipe from underground drain, reconfigure overflow valve/piping, add splash pad			\$ 3,275
Buffalo Horn Tank		Clean out & pressure wash interior, recoat damaged sections		\$ 31,325
Buffalo Horn Tank			Repair and seal foundation, electrically ground for lightning protection, repair level indicator, place signage, install swing gate at shell/ladder junction, pressure wash exterior	\$ 11,210
Calloway Tank	Disconnect pipe from underground drain, reconfigure overflow valve/piping, add splash pad; Remove vegetation; install safety climbing device; replace vent			\$ 14,675
Calloway Tank		Clean out tank		\$ 3,850
Calloway Tank			Repair access road, site work, repair/seal foundation, electrically ground for lightning protection, repair anchor bolts & plate connections, repair/relocate level indicator, place signage, extend handrail for roof access, install swing gate at shell/ladder junction, pressure wash & recoat interior and exterior, seal roof seams	\$ 108,920
High School Tank			Repair access road, site work, repair/seal foundation, electrically ground for lightning protection, repair level indicator, place signage, reconfigure overflow piping, pressure wash exterior	\$ 16,300

Martin County Water District Water Storage Tank Needs Assessment
7/15/2026

Tank	Emergency Needs	Urgent Needs	Other needs	Cost
Marcus Well Tank	Replace vent			\$ 4,850
Marcus Well Tank	Replace roof			unknown
Marcus Well Tank		Clean out tank		\$ 3,850
Marcus Well Tank			Repair access road, site work, repair/seal foundation, electrically ground for lightning protection, repair level indicator, install flapper valve & screen on overflow pipe, place signage, pressure wash interior & exterior	\$ 25,500
Otto Brown Tank	Replace vent			\$ 4,850
Otto Brown Tank	Replace roof			unknown
Otto Brown Tank		Clean out tank		\$ 3,850
Otto Brown Tank			Repair access road, site work, repair/seal foundation, electrically ground for lightning protection, repair level indicator, install screen on overflow pipe, place signage, install swing gate at shell/ladder junction, pressure wash interior & exterior, recoat exterior	\$ 50,195
Rock Castle Tank	Replace vent			\$ 4,850
Rock Castle Tank		Clean out tank		\$ 3,850
Rock Castle Tank			Repair access road, site work, repair/seal foundation, electrically ground for lightning protection, repair level indicator, install flapper valve & screen on overflow pipe, place signage, install swing gate at shell/ladder junction, pressure wash interior & exterior	\$ 31,925

Total Cost of Emergency Needs (excluding 3 roof replacements)	\$ 47,700
Total Cost of Urgent Needs (excluding one structural evaluation)	\$ 94,375
Total Cost of Other Needs	\$ 370,775

SECTION IV Capital Planning

Funded

MCWD
Ranking Project Name

Pnum Project Cost Application Project Description

1	Trucks / Equipment (Water)	WX21159032	\$ 535,000	No Funding App	This would allow the district to purchase a crane truck to be used to help set pumps and motors. It also calls for the replacement of an excavator and trucks that are already past their replacement cost.
2	Inez Water Treatment Plant Improvements	WX21159036	\$ 3,882,600	No Funding App	Address raw water LSI influence on WWTP and distribution system to include new chemical feed systems and controls.
3	Inez Water Treatment Plant Filter #5 Repair	WX211590XX	\$ 500,000	Not in WRIS; Value Estimated	Filter #5 has severe internal corrosion from very negative LSI values, which has corroded the filter internal metal embedments. The corrosion is causing higher effluent turbidity results outside the recommended value.
4	Fire and Flush Hydrants Install / Replacement	WX211590XX	\$ 4,000,000	Not in WRIS; Value Estimated	Inspect, replace and repair existing and install new as needed to preform effective flush program and provide adequate fire protection.
5	Replace Inez Water Treatment Plant	WX211590XX	\$ 45,000,000	Not in WRIS; Value Estimated	Inez WTP is 58 years old and severely corroded from years of treating very negative LSI water from the Tug River. The corrosion has severely impacted not just the concrete structures, but also all metal piping and equipment.
6	Coldwater Line Replacement Phase II	WX211590XX	\$ 3,419,000	Not in WRIS; Value Estimated	This would complete the improvement project to eliminate multiple main lines and have all the customers connected to one water main. Current jumpers are in place which makes water loss impossible to manage. This also adds additional water main valves which will help isolate leaks and control water loss.
7	Inez Water Line & Valve Replacement	WX21159027	\$ 5,000,000	In WRIS; Value Estimated	This line and replacement project would address one of the oldest sections of infrastructure in the system. The line is AC and needs to be replaced. This project would also replace valves in the system that are currently not operational and install new valves to help better isolate the system.
8	Old Rt. 3 - Water improvement Project Phase II	WX211590XX	\$ 3,492,465	AML 2026 App	Phase II project will include replacing approximately 10,000 lf of 6 inch waterline along Old Rte 3 between West Main Street and 1907 Rockcastle Road, including water valves, hydrants, and relocating existing water meters to the right of way. The project also includes replacing the creek crossing to Marcum Town Road
9	Water System Controls and Raw Water Modifications Phase III	WX21159017	\$ 3,842,150	No Funding App	This project would include rehabbing clarifier number 2, doing site work at the raw water intake and replacing some water main and service lines in the distribution system. Valve work at Reservoir
10	Water District Facilities Project	WX211590XX	\$ 4,500,000	Not in WRIS; Value Estimated	Purchase property and construct District offices and shop. District currently rents to spaces and our operations is spreadout all over the county.
11	Buffalo Horn Water Line Replacement & Booster Station Rehab	WX211590XX	\$ 2,186,000	Not in WRIS; Value Estimated	This would be replacing an underground pump station with above ground which prevents the station from flooding. This would include installing a flow meter which would help with water loss program. Project would also include adding redundancy to the pump station.
12	WTP to Turkey Tank Water Line Replacement	WX21159026	\$ 6,822,000	In WRIS; Value Estimated	This project would be replacing aging infrastructure where we have routine water leaks. It also would include adding additional valves and meters to help with the water loss program.
13	Meathouse Water Line Replacement & Booster Station Rehab	WX211590XX	\$ 7,652,000	Not in WRIS; Value Estimated	This project would address redundancy issues in the pump station as well as replacing the water mains in the service area. This area is also prone to power outages and this would provide back up power and improve the communication to the SCADA system.

Funded

MCWD

Ranking Project Name

Pnum

Project Cost

Application

Project Description

14	Big Elk Water Line Replacement & Booster Station Rehab	WX211590XX	\$ 2,433,000	Not in WRIS; Value Estimated	This would be replacing an underground pump station with above ground which prevents the station from flooding. This would include installing a flow meter which would help with water loss program. Project would also include adding redundancy to the pump station.
15	Redundancy Turkey Creek Pump	WX211590XX	\$ 100,000	Not in WRIS; Value Estimated	Currently only one pump - this feeds from WTP
16	On-line Monitoring Equipment/SCADA Upgrades	WX211590XX	\$ 500,000	Not in WRIS; Value Estimated	The current SCADA system has limitations. This will upgrade and allow for better communications.
17	Copper Sulfate Feed System at Reservoir	WX211590XX	\$ 100,000	Not in WRIS; Value Estimated	Provides the ability to treat the source water at the reservoir.
18	Hode Water Line Replacement	WX211590XX	\$ 5,226,000	Not in WRIS; Value Estimated	Replace all main and service lines within the pressure zone.
19	Peter Cave Water Line Replacement & Booster Station Rehab	WX211590XX	\$ 1,457,000	Not in WRIS; Value Estimated	This would be replacing an underground pump station with above ground which prevents the station from flooding. This would include installing a flow meter which would help with water loss program. Project would also include adding redundancy to the pump station.
20	Big Lick Water Line Replacement & Booster Station Rehab	WX211590XX	\$ 1,877,000	Not in WRIS; Value Estimated	The existing station has only one functional pump. This project would add redundancy and also address the SCADA and communication issues within the pressure zone.
21	Creek Crossing Replacement	WX211590XX	\$ 1,000,000	Not in WRIS; Value Estimated	This project would be to bore new water mains through the major creek crossings in the distribution system.
22	Cassell Branch Water Line Replacement & Booster Station Rehab	WX211590XX	\$ 1,574,000	Not in WRIS; Value Estimated	This project would be to add redundancy to the existing pump station. Also would be used to add SCADA and communication to the tank.
23	Spicy Mountain Water Line Extension	WX21159030	\$ 4,200,000	In WRIS; Value Estimated	Run water to 6 customers, new tanks and tie into Paintsville Water System
24	Wolf Creek/Pigeon Roost Water Line Replacement	WX211590XX	\$ 1,315,000	Not in WRIS; Value Estimated	This area has been prone to multiple line breaks yearly. This would be to replace the poorly constructed water lines.
25	High School Pump Station Check Valve	WX211590XX	\$ 81,000	Not in WRIS; Value Estimated	This would give the system the possibility of providing water to other parts of the system with altitude and check valves.
26	Sludge Management WTP	WX211590XX	\$ 500,000	Not in WRIS; Value Estimated	Build press building for sludge management at water plant
27	Distribution Building and Pipe Yard	WX211590XX	\$ 500,000	Not in WRIS; Value Estimated	Currently staff is working out of old trailer and has no where to store parts.
28	Kermit Tie-In	WX211590XX	\$ 250,000	Not in WRIS; Value Estimated	This project would reestablish the tie in to the Kermit water system which creates an emergency feed for both systems.
29	645 Water Line Replacement & Booster Station Rehab	WX211590XX	\$ 1,255,000	Not in WRIS; Value Estimated	This would be replacing an underground pump station with above ground which prevents the station from flooding. This would include installing a flow meter which would help with water loss program. Project would also include adding redundancy to the pump station.

Funded

MCWD Ranking	Project Name	Pnum	Project Cost	Application	Project Description
30	Water Plant High Service Pump Replacement	WX211590XX	\$ 850,000	Not in WRIS; Value Estimated	This would be to replace the current high service pumps in the Inez water plant. The pumps have not been pulled in years and are quickly approaching their run life. The would include a contractor replacing in place.
31	Water Distribution System Improvements	WX211590XX	\$ 1,500,000	Not in WRIS; Value Estimated	This project would be to install valves throughout the system to help with the water loss program. It also includes adding new valves on the pier at the reservoir and a tie in at 292 to Big Elk water mains.
32	Old Rt. 3 - Water improvement Project Phase III	WX211590XX	\$ 3,493,579	Not in WRIS; Value Estimated	Phase III project will include replacing approximately 10,500 lf of six inch waterline along Old Route 3 from 1907 Rockcastle Road to 1000 feet west of the Milo Road intersection including water valves, hydrants, and relocating existing water meters to the right of way.
33	Old Rt. 3 - Water improvement Project Phase IV	WX211590XX	\$ 3,487,111	Not in WRIS; Value Estimated	Phase IV project will include replacing approximately 10,350 lf of six inch waterline along Old Route 3 from 1000 feet west of Milo Road intersection to 550 feet east of Little Fork Road, excluding a section recently replaced by the MCWD, including water valves, hydrants, and relocating existing water meters to the right of way.
Funded	Service Debt	WX21159029	\$ 3,294,561	KIA	To pay off existing debt the water district has.
Funded	Tank Inspections and Painting	WX21159033	\$ 769,210	KIA	System Tanks needed inspected and money needed for repairs after inspections -2K per tank 20K - another 50K for paint - 30K for repairs
Funded	292 Booster Station & Water Line Replacement	WX21159034	\$ 964,850	KIA	This would be replacing an underground pump station with above ground which prevents the station from flooding. This would include installing a flow meter which would help with water loss program. Project would also include adding redundancy to the booster station.
Funded	Davella Road Pump Station and Line Replacement	WX21159035	\$ 6,471,900	KIA	One working pump, needs new control panel and system, new gauges - New Building. Line replacement from Devella road to pump station
Funded	Old Rt. 3 - Water improvement Project Phase I	WX21159024	\$ 2,533,000	AML	The Phase 1 project will include removing the 3" waterline between Hammond Loop and Grassy School, improvements on Mudford Road and Petercave Branch Road, and a booster pump station on Petercave Branch Road.
Funded	Martin County Water System Master Plan	WX21159031	\$ 250,000	DGL	The district needs a comprehensive evaluation of the entire system. This would help determine the long term solution for the raw intake, treatment plant needs, tanks, and distribution lines. This study would also determine the long term sludge disposal from the water treatment plant.
Funded	FEMA Backup Generators	WX21159015	\$ 1,320,000	FEMA	This is the purchase of new generators at 40E and 40W pump stations, Raw Water Intake, and a portable generator for other locations as needed. The District borrowed the money from KaCO to pay for the project until FEMA reimburses the District.
Funded	Otto Brown Booster Station, Line Replacement to Middle fork Tank, Davella Booster Station Upgrade	WX21159008	\$ 2,000,000	AML	This project would allow the water system to be able to match the capacity of water being sent to the prison. Currently when the Davella pump station is running, it out pumps the Otto Brown pump station and drops the tank. This would also give the station redundancy with multiple pumps pumping to all tanks. Currently only one pump is in the pump station.
Funded	Coldwater Line Replacement Phase I	WX21159023	\$ 5,000,000	HUD	This improvement project would eliminate multiple main lines and have all the customers connected to one water main. Current jumpers are in place which makes water loss impossible to manage. This also adds additional water main valves which will help isolate leaks and control water loss.

Funded

MCWD

Ranking Project Name

Pnum

Project Cost

Application

Project Description

Funded	Rt. 40E - Water Improvement Project Phase I	WX21159019	\$ 800,000	AML	This improvement project would eliminate multiple main lines and have all the customers connected to one water main. Current jumpers are in place which makes water loss impossible to manage. This also adds additional water main valves which will help isolate leaks and control water loss.
Funded	Recoat/Repair - 50K Gallon Turkey Water Storage Tank	WX21159025	\$ 681,000	AML	This includes repairing tank deficiencies and installing security measures

Total Capital Funds Needed \$ 122,529,905

Projects Already Funded \$ 24,084,521

Funds Needed \$ 98,445,384

Martin County Water and Sanitation Projects Schedule

ID	Task Name	Duration	Start	Finish	Grantor	Grantee	Engineer of Record	Administrator	Period of Performance End Date	Cost	% Complete	2024 2024	2025	2026	2027	2028
1	MCWD Projects	738 days	Wed 1/1/25	Mon 11/1/27						\$15,687,566.00	49%					
2	Countywide Meter Changeouts	431.5 days	Wed 1/1/25	Fri 8/28/26	KIA	MCWD	N/A	BSADD	9/24/2026	\$2,000,000.00	73%					
3	Procurement	33 days	Wed 1/1/25	Fri 2/14/25						\$0.00	100%					
4	Meter Change Out	309 days	Mon 2/17/25	Fri 4/24/26						\$2,000,000.00	89%					
5	Order and Install Master Meters	106 days	Tue 12/23/25	Fri 8/28/26						\$0.00	16%					
6	Turkey Tank Rehabilitation	370 days	Mon 4/7/25	Mon 9/7/26	KIA	MCWD	Bell Engineering	BSADD	10/15/2026	\$681,000.00	65%					
7	Plans and Specifications	139 days	Mon 4/7/25	Fri 10/17/25						\$0.00	100%					
8	Acquire Construction Easement	101 days	Mon 10/20/25	Mon 3/9/26						\$0.00	100%					
9	Procurement	44 days	Tue 3/10/26	Fri 5/8/26						\$0.00	0%					
10	Tank Rehabilitation	86 days	Mon 5/11/26	Mon 9/7/26						\$681,000.00	0%					
11	Middle Fork/Otto Brown Booster Station & Line Replacement	478 days	Mon 3/3/25	Thu 12/31/26	AML	BSADD	Bell Engineering	BSADD	12/31/2026	\$2,000,000.00	63%					
12	Design	226 days	Mon 3/3/25	Tue 1/13/26						\$0.00	100%					
13	Resolve AML No Agreement Issue with MCWD	60 days	Mon 9/22/25	Fri 12/12/25						\$0.00	100%					
14	Permitting	53 days	Wed 1/14/26	Fri 3/27/26						\$0.00	100%					
15	Procurement	49 days	Mon 3/30/26	Thu 6/4/26						\$0.00	0%					
16	Station and Line Replacement	150 days	Fri 6/5/26	Thu 12/31/26						\$2,000,000.00	0%					
17	Lead Service Line Inventory	477 days	Wed 1/1/25	Fri 10/30/26	KIA	MCWD	N/A	BSADD	11/1/2026	\$299,250.00	48%					
18	Procurement	1 day	Wed 1/1/25	Wed 1/1/25						\$0.00	100%					
19	Complete Lead Service Line Inventory	476 days	Thu 1/2/25	Fri 10/30/26						\$299,250.00	48%					
20	Coldwater Line Improvement Project Phase I	556 days	Mon 9/15/25	Mon 11/1/27	HUD	BSADD	Nesbitt Engineering	BSADD	N/A	\$5,000,000.00	12%					
21	Resolve Legal Issue with BSADD Regarding EOR	175 days	Mon 9/15/25	Fri 5/15/26						\$0.00	37%					
22	Design	66 days	Mon 6/22/26	Mon 9/21/26						\$0.00	0%					
23	Permitting	44 days	Tue 9/22/26	Fri 11/20/26						\$0.00	0%					

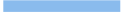
Project: MCWD and MCS D 2026 Projects Schedule_04_18_2026
Date: Sat 4/18/26

Task		Inactive Task		Manual Summary Rollup		External Milestone	
Split		Inactive Milestone		Manual Summary		Deadline	
Milestone		Inactive Summary		Start-only		Progress	
Summary		Manual Task		Finish-only		Manual Progress	
Project Summary		Duration-only		External Tasks			

Martin County Water and Sanitation Projects Schedule

ID	Task Name	Duration	Start	Finish	Grantor	Grantee	Engineer of Record	Administrator	Period of Performance End Date	Cost	% Complete	2024	2025	2026	2027	2028
24	Procurement	66 days	Mon 11/23/26	Mon 2/22/27						\$0.00	0%					
25	Coldwater Line Construction	180 days	Tue 2/23/27	Mon 11/1/27						\$5,000,000.00	0%					
26	RT 40E Water Improvement Project	385 days	Mon 3/3/25	Mon 8/24/26	AML	MCWD	Bell Engineering	BSADD	6/30/2028	\$975,000.00	69%					
27	Design	149 days	Mon 3/3/25	Fri 9/26/25						\$0.00	100%					
28	Permitting	115 days	Mon 9/29/25	Fri 3/6/26						\$0.00	100%					
29	Procurement	65 days	Mon 3/9/26	Fri 6/5/26						\$0.00	0%					
30	RT 40E Construction	56 days	Mon 6/8/26	Mon 8/24/26						\$975,000.00	0%					
31	Water System Improvements - Telemetry Project	342 days	Wed 1/1/25	Fri 4/24/26	EEC/KDOW	MCWD	Bell Engineering	BSADD	12/2/2026	\$78,316.00	78%					
32	Procurement	1 day	Wed 1/1/25	Wed 1/1/25						\$0.00	100%					
33	Telemetry Construction	329 days	Mon 1/20/25	Fri 4/24/26						\$78,316.00	78%					
34	Raw Water Intake Improvements	407 days	Wed 1/1/25	Fri 7/24/26	USACE/AML	BSADD	Bell Engineering	BSADD	11/13/2025 USACE Stop Payments	\$551,000.00	56%					
35	Funding and Procurement	98 days	Wed 1/1/25	Fri 5/16/25						\$0.00	100%					
36	Complete RWI System Corrective Actions	309 days	Mon 5/19/25	Fri 7/24/26						\$551,000.00	42%					
37	Emergency Backup Generators	449.2 days	Wed 1/1/25	Wed 9/23/26	FEMA	MCWD	Bell Engineering	BSADD	9/27/2025 POP Ext.	\$1,320,000.00	45%					
38	Secure Loan	64 days	Wed 1/1/25	Mon 3/31/25						\$0.00	100%					
39	Request Pop Extension and Scope Variance	69 days	Mon 9/22/25	Fri 5/8/26						\$0.00	29%					
40	Design	43 days	Tue 4/1/25	Thu 5/21/26						\$0.00	80%					
41	Procurement	44 days	Thu 5/21/26	Wed 7/22/26						\$0.00	0%					
42	Construction	45 days	Wed 7/22/26	Wed 9/23/26						\$1,320,000.00	0%					
43	Old Highway 3 Phase I Waterline Replacement	418 days	Mon 11/3/25	Wed 6/9/27	AML	MCWD	Prime AE	Fahe, Inc.	TBD	\$2,533,000.00	12%					
44	Provide AML Engineer's Estimate and Execute MOA	130 days	Mon 11/3/25	Fri 5/1/26						\$0.00	38%					
45	Design	88 days	Mon 5/4/26	Wed 9/2/26						\$0.00	0%					
46	Permitting	67 days	Thu 9/3/26	Fri 12/4/26						\$0.00	0%					
47	Procurement	70 days	Mon 12/7/26	Fri 3/12/27						\$0.00	0%					
48	Old Highway 3 Construction	63 days	Mon 3/15/27	Wed 6/9/27						\$2,533,000.00	0%					

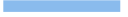
Project: MCWD and MCSD 2026 Projects Schedule_04_18_2026
Date: Sat 4/18/26

Task		Inactive Task		Manual Summary Rollup		External Milestone	
Split		Inactive Milestone		Manual Summary		Deadline	
Milestone		Inactive Summary		Start-only		Progress	
Summary		Manual Task		Finish-only		Manual Progress	
Project Summary		Duration-only		External Tasks			

Martin County Water and Sanitation Projects Schedule

ID	Task Name	Duration	Start	Finish	Grantor	Grantee	Engineer of Record	Administrator	Period of Performance End Date	Cost	% Complete	2024	2025	2026	2027	2028
49	Master Plan	509 days	Mon 1/6/25	Fri 12/18/26	DLG	MCWD	TBD	Fahe, Inc.	TBD	\$250,000.00	51%					
50	Secure Funding	349 days	Mon 1/6/25	Fri 5/8/26						\$0.00	75%					
51	Complete PSA	20 days	Mon 5/11/26	Fri 6/5/26						\$0.00	0%					
52	Generate MCWD Master Plan	140 days	Mon 6/8/26	Fri 12/18/26						\$250,000.00	0%					
53																
54	KYTC Beauty Water Line Relocation	300 days	Mon 10/27/25	Fri 12/18/26	KYTC	MCWD	Prime AE	Fahe, Inc.	N/A	\$0.00	19%					
55	Hire Engineer of Record	35 days	Mon 10/27/25	Fri 12/12/25						\$0.00	100%					
56	Design	110 days	Mon 12/15/25	Fri 5/15/26						\$0.00	20%					
57	Permitting	44 days	Mon 5/18/26	Thu 7/16/26						\$0.00	0%					
58	Procurement	44 days	Fri 7/17/26	Wed 9/16/26						\$0.00	0%					
59	Construction	67 days	Thu 9/17/26	Fri 12/18/26						\$0.00	0%					
60	MCSD Projects	622 days	Wed 1/1/25	Fri 5/21/27						\$3,792,625.00	58%					
61	Inez WWTP Phase I Rehabilitation	397 days	Wed 1/1/25	Fri 7/10/26	KIA	MCSD	Prime AE	BSADD	12/31/2026	\$685,625.00	53%					
62	Complete Design	20 days	Wed 1/1/25	Tue 1/28/25						\$0.00	100%					
63	Permitting	86 days	Wed 1/29/25	Thu 5/29/25						\$0.00	100%					
64	Procurement	266 days	Fri 5/30/25	Fri 6/5/26						\$0.00	40%					
65	Rehab Inez WWTP	25 days	Mon 6/8/26	Fri 7/10/26						\$685,625.00	0%					
66	Sanitation Extension Davella Road to KY HWY 3	622 days	Wed 1/1/25	Fri 5/21/27	HUD	MCFC	Prime AE	BSADD	N/A	\$3,107,000.00	60%					
67	Finalize HUD Funding	88 days	Wed 1/1/25	Fri 5/2/25						\$0.00	100%					
68	Complete Sanitation Master Plan	254 days	Mon 5/5/25	Fri 4/24/26						\$200,000.00	95%					
69	Complete Design	274 days	Mon 5/5/25	Fri 5/22/26						\$0.00	77%					
70	Complete Easements and Access Agreements	39 days	Mon 3/30/26	Fri 5/22/26						\$0.00	23%					
71	Permitting	44 days	Mon 5/25/26	Thu 7/23/26						\$0.00	0%					
72	Procurement	66 days	Fri 7/24/26	Fri 10/23/26						\$0.00	0%					
73	Construct Extension and Lift Station	150 days	Mon 10/26/26	Fri 5/21/27						\$2,907,000.00	0%					

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Date: Sat 4/18/26

Task		Inactive Task		Manual Summary Rollup		External Milestone	
Split		Inactive Milestone		Manual Summary		Deadline	
Milestone		Inactive Summary		Start-only		Progress	
Summary		Manual Task		Finish-only		Manual Progress	
Project Summary		Duration-only		External Tasks			

Master Plan

The Martin County Water District has already secured funding for development of a comprehensive Water System Master Plan, which will serve as the framework for guiding future infrastructure investments across the entire utility. The Master Plan will include a detailed engineering evaluation of the water treatment plant, raw water intake, storage tanks, booster pump stations, transmission mains, distribution system, SCADA infrastructure, and water loss reduction initiatives. By combining the condition assessments, capital improvement projects, asset inventories, operational data, and field observations completed since 2020, the Master Plan will allow the District to prioritize projects based on risk, operational impact, regulatory requirements, and long-term affordability.

The Master Plan will also help tie together the significant investments already made in water loss reduction, GIS development, SCADA and telemetry improvements, booster station rehabilitation, tank inspections, and waterline replacement projects. In addition to evaluating each asset independently, the engineering analysis will provide a system-wide assessment of how treatment, storage, pumping, transmission, and distribution infrastructure interact. This will allow the District to identify long-term solutions that maximize reliability, improve redundancy, reduce non-revenue water, and ensure capital dollars are invested where they provide the greatest benefit to customers and the overall system.

Equally important, the Master Plan will function as a living document rather than a static report. The District intends to review and evaluate the Master Plan regularly, updating priorities, cost estimates, funding opportunities, and project schedules as system conditions and operational needs change. As additional infrastructure is rehabilitated, new assets are added to the GIS and CMMS asset management platforms, and new information becomes available through inspections and operational monitoring, the Master Plan can be adjusted to reflect current conditions. This approach will provide the District with a sustainable long-term planning tool that supports continuous improvement, responsible asset management, and informed decision-making for years to come.