



DEPARTMENT OF PUBLIC UTILITIES

2025 Asset Management Team Presentation to Board of Public Utilities

January 15, 2025

WATER DISTRIBUTION ASSET MANAGEMENT TEAM



- Began PRV Maintenance /Rehabilitation – Very Effective
 - ✓ Continue in FY2026 – Specialty Contractor
- Water valve maintenance/replacements – Quemazon corroded bolts
 - ✓ Lots of overtime
- Waterline breaks & leaks – Challenging now and future
- More crews/staff needed on water – trend into FY2026
- Old galvanized water services & old meter replacement
- Allocate labor and resources to highest priority needs

WATER DISTRIBUTION FY26 CIP

Project Title		Budget
<ul style="list-style-type: none"> Trinity Drive Waterline (New) 	Profit Share	\$1,875,000
<ul style="list-style-type: none"> Denver Steels Phase II 	DWSRL	\$1,500,000
<ul style="list-style-type: none"> San Ildefonso Road Waterline Project 	WTB \$2,000,000 CIP \$300,000	\$2,300,000
<ul style="list-style-type: none"> Fairway Roadway Project (Defer to FY 2027) 		\$883,200
<ul style="list-style-type: none"> GWS /ED Facility at WR WRRF 		\$75,000
	Total (Without Fairway)	\$5,750,000

WASTEWATER TREATMENT ASSET MANAGEMENT TEAM

ACCOMPLISHMENTS:

- 👍 White Rock WRRF is now meeting and exceeding the NMED Permit Limits.
- 👍 The Bayo Lift Station Elimination Project provided some unanticipated benefits that eliminated surges into the WWTP. It helped the secondary clarifiers to have a more laminar flow and allowed the suspended solids to settle out more efficiently.
- 👍 Staff Certifications and CDL Licenses
- 👍 Wastewater staff has completed numerous in-house projects around the facilities



WASTEWATER TREATMENT FY26 CIP BUDGETS

FY 2026

Convert Effluent Wastewater to Gravity System	\$300,000
Blower Building Modifications Cooling	\$300,000 (RIP)
UV System Replacement	\$230,000 (RIP)
MCC Improvements	\$ TBD (RIP)
Fine Screen Replacement	\$650,000 (RIP)
Repair of Aeration Cracks	\$500,000 (RIP)



RIP – Rural Infrastructure Loan Program from NMED.

\$2 million maximum with potential \$500K grant maximum.

GAS ASSET MANAGEMENT TEAM

- Increased O&M focus – more crew hours spent on the gas system
- Increased number of anodes installed
- Successful Distribution Integrity Management Audit
- Isolated steel section of pipeline – Quartz Street
- Investigation needed to find other isolated steel sections
- Increased crew time on gas system – hard to balance other utilities' needs



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GAS DISTRIBUTION FY26 PROJECTS



Pipeline Repair & Replacement/Equipment	\$ 75,000
Elk Ridge Gas System Replacement	\$400,000
GWS/ED Facilities at W.R. W.W.T.P.	\$ 75,000
Trinity Drive; Knecht to Oppenheimer	\$575,000 (NEW)

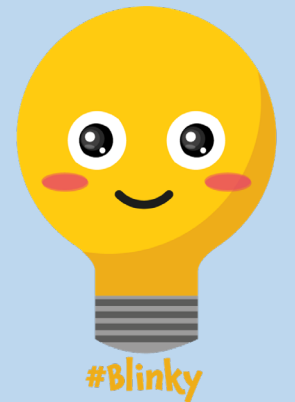
ELECTRIC PRODUCTION ASSET MANAGEMENT TEAM

- Don Wichers – New Hydro Supervisor
- Upcoming Year look ahead:
 - ✓ El Vado - will USBOR raise water level that allows generation.
 - ✓ Abiquiu - tunnel rehabilitation status.
 - ✓ Abiquiu – Vent shaft rehabilitation / replacement status – waiting on USACE project plan and cost
- LAC/DOE Electric Coordination Agreement Renewal
- Foxtail Flats Online in Spring 2026
- Abiquiu & El Vado Communication Upgrades
- Condition Assessment RFP
- Ongoing Projects
 - ✓ Abiquiu Office / Slab / Fire Protection Reinforcement of wall
 - ✓ Draft Tube Repairs / Aeration System Replacement Abiquiu Unit #3
 - ✓ Procure maintenance tracking system



ELECTRIC PRODUCTION PROPOSED FY26 CIP BUDGETS

El Vado Controls Upgrade	\$550,000
El Vado Ultrasonic Flow Meter	\$150,000
Abiquiu PRV Chamber Gates	\$200,000
Abiquiu Interior Slab	\$100,000
Abiquiu 36" Penstock ARV	\$100,000
Abiquiu Wicket Gate Hydraulic Servo Replacement	\$400,000



WATER PRODUCTION ASSET MANAGEMENT TEAM

- Well/Booster Station Improvements
 - ✓ Roofing, concrete degradation, paint – some cosmetic issues, but also some structural
 - ✓ Non-functional intake valves / Mercoid switches / mini-splits (electrification)
- Transmission line leaks and breaks
- Cover Overlook effluent pond (non-potable)
- Coordinate new operators and set up an efficient workflow
- Meet Preventative Maintenance Schedules
- Inspect and replace chlorinator components that are nearing end of life
- Enhance electrical preventive maintenance program (MCC inspection, cleaning, panels, conduit, etc.)



WATER PRODUCTION ASSET MANAGEMENT TEAM

WORKLOAD SUPPORTING ONGOING PROJECTS

- Tank Piping Upgrades (Twin Tank & Pajarito Transmission Inter-Ties LANL) – **Design Phase**
 - ✓ Funding of \$900K
- Bayo NP Booster Station Refurbishment – **Design Phase**
 - ✓ Funding: CWSRL \$1M
- 14" Water Replacement Bathtub Row/Nectar/Peach (Public works Road Project) – **Construct Spring 2025**
 - ✓ Funding: \$1,040,000 CIP
- Water Production SCADA Replacement Project - **Ongoing**
 - ✓ Funding: \$2,020,000 DWSRL / \$150,000 CIP
- Jemez Fire Protection Phase - **Ongoing**
 - ✓ Budget \$18 Million
 - ✓ Phase I Awarded @ \$4,621,228
 - ✓ Phase IV Bid Awarded \$ 2,456,182
 - ✓ Phase II & Phase III – Bid 2025
- WP Wells Mechanical & Electrical Upgrades - **Ongoing**
 - ✓ Funding: DW5638 \$2,727,000 & RIP 00059 \$2,000,000
- NM-4 Waterline Replacement - **Ongoing**
 - ✓ Funding: \$400K SAP, \$5M WTB



\$31,000,000 in Construction

WATER PRODUCTION FY2026 PROJECTS

Townsite 14" Replacement – Phase I	\$2,883,500
✓ WTB \$2,500,000	
✓ CIP \$383,500	
GWS / ED Facility at WR WRRF	\$ 75,000
North Mesa Tank Altitude Valve	\$ 400,000
WP SCADA Replacement Fiber Projects (New)	\$ 530,000
Overlook Pond Cover (New)	\$ 40,000
Pajarito Road 14" Waterline Phase (New)	\$3,366,000
Monitoring Well @ Composting Site (New)	\$ 60,000
TOTAL	\$7,354,500



WASTEWATER COLLECTION ASSET MANAGEMENT TEAM

- Lift Station Rehabilitation
 - ✓ Paseo Penasco & El Gancho Completed in 2024
 - ✓ Bayo Lift Station Eliminated in 2024
 - ✓ North Road & Los Arboles - In Progress
 - ✓ Quemazon - Design Phase
 - ✓ East Gate FY 2026
- Lift Station SCADA Upgrades Underway
- Replace Sewer Flushing Trailer(\$50,000)
- New Dry Vacuum Truck (\$200,000)
- New Hydraulic Pump Unit (shared with other budgets)
- Problems with Duplexes/ Quads on Same Sewer Line (North Community, Others)



WASTEWATER COLLECTION FY2026 PROJECTS

N.C. Backyard Sewers R&R - Phase 1

GWS/ED Facilities at WR WWTP

Denver Steels Phase II

Fairway Public Works Road Project (Deferred)

East Gate Lift Station Rehabilitation (New)

45th Street Multi-Service Sewer (New)



\$285,000

\$ 75,000

\$150,000

\$595,000

\$200,000

\$100,000

ELECTRIC DISTRIBUTION ASSET MANAGEMENT TEAM



- LASS- Commissioning Complete
- LASS – Canyon crossing scheduled in third quarter.
 - ✓ LANL restrictions on canyon prevent access from March 1 to May 15 due to owl nesting.
- Staff provides design and support for Jemez Mountain Fire Protection Project
- Staff is working closely with the County to provide the utility connections for electric car chargers.
- Staff will work to maintain and improve the system model software program in support of the Electrification Study.
- Electrification Study scheduled to be complete by end of 4th quarter.
- Working with LANL on asset transfers on East and West Jemez Roads

ELECTRIC DISTRIBUTION ASSET MANAGEMENT TEAM

CHALLENGES

- Coordination with the County Broadband project will place a large demand on staff time. A pole attachment agreement and conduit lease agreement will be finalized.
- Procurement Lead Times / Inventory Control
- Monitor Townsite Feeder Capacity – Install line sensors to monitor solar saturation and reverse power flow.
- Install SCADA components to monitor grid.



ELECTRIC DISTRIBUTION FY2026 CIP BUDGETS

White Rock URD Replacement :\$1,000,000
Piedra Loop

Townsite URD Replacement :\$ 500,000
Eastgate

Overhead Replacement\$ 450,000
Townsite- North Mesa, Rendija Canyon
White Rock- Rover, Beryl

White Rock Facility at WWTP\$ 75,000

Power Pole Testing\$ 100,000

