Sonoma Water

Clean. Reliable. Essential. Every Day.

Water Transmission System Capital Projects & Maintenance Update

City of Santa Rosa – City Council

February 24, 2026

David Royall
Assistant General Manager
david.royall@scwa.ca.gov

Kent Gylfe
Director of Engineering
kent.gylfe@scwa.ca.gov

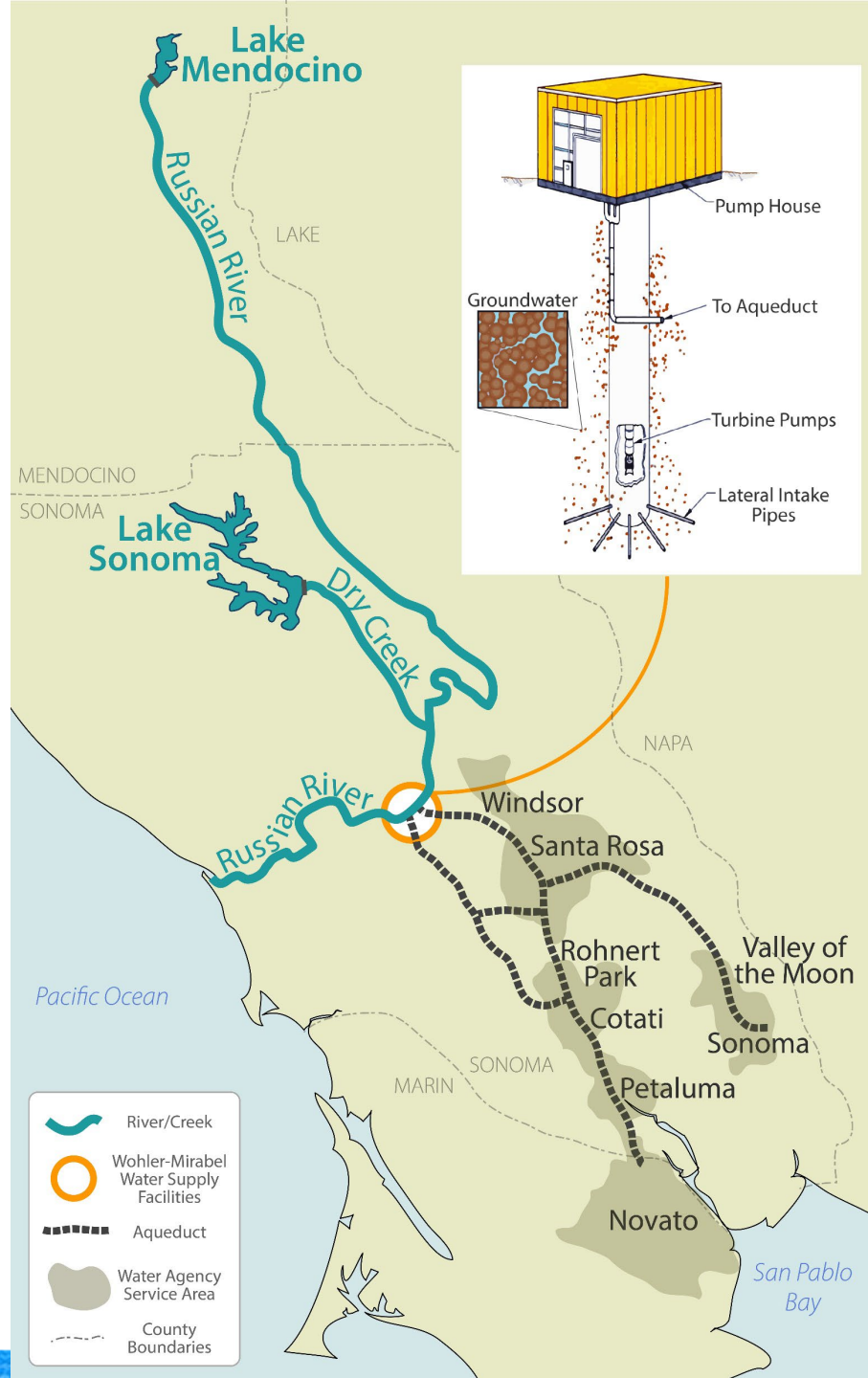
sonomawater.org

Water Supply

Delivering clean, reliable water to more than 600,000 people

Water Contractors

Cotati	Valley of the Moon Water District
Petaluma	Windsor
Rohnert Park	North Marin Water District
Santa Rosa	Marin Municipal Water District*
Sonoma	



Active and Recently Completed Construction Projects

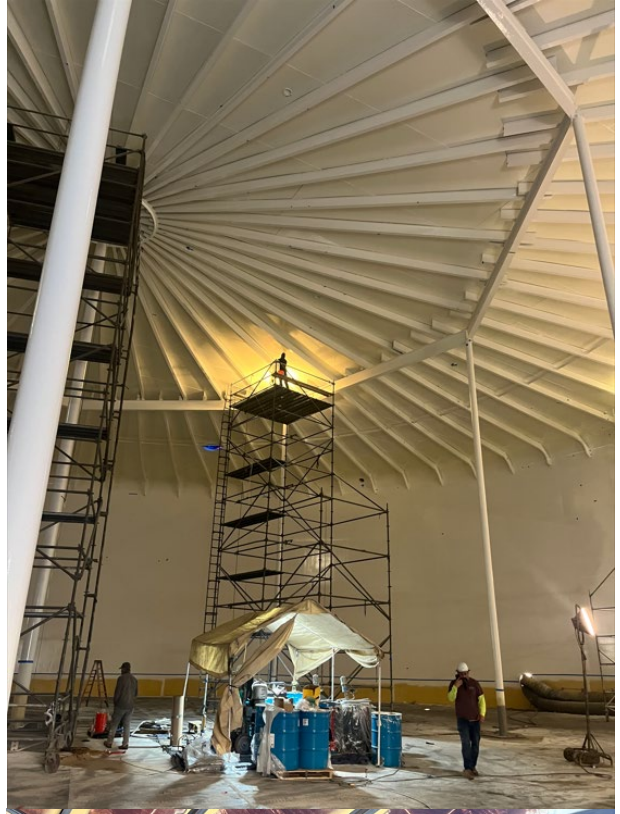
Water System Construction Projects	Contract Value ($)	Contract Award Date	Date of Completion
Ely Booster Station Hazard Mitigation	$2,666,666	Mar 2022	May 2026
Cotati Tank No. 1 and Kastania Tank Recoating	$6,450,000	Apr 2023	Jan 2025
Santa Rosa Plain Water Supply Resiliency Project - Occidental Road Well No. 3 Drilling	$1,316,527	Aug 2023	May 2024
Santa Rosa Plain Water Supply Resiliency Project - Sebastopol Road Well Activation	$3,102,798	Jan 2024	Dec 2025
Santa Rosa Plain Water Supply Resiliency Project - Occidental Road Well Activation	$4,797,811	Mar 2024	Feb 2026
Cotati Tank No. 3 Recoating	$6,962,100	Jan 2025	Mar 2026
Santa Rosa and Russian River-Cotati Intertie Aqueducts Cathodic Protection Upgrade Phase 1	$2,178,583	Jul 2025	Jun 2026
Wilfred Booster Station Resiliency	$6,809,340	Dec 2025	Aug 2027

Ely Booster Station Hazard Mitigation

- Project scope
  - Replace and elevate electrical switchgear, valve actuators, MCC, and standby generator above 500-yr flood elevation
  - Replace sound attenuation structures
- FEMA hazard mitigation funding
- Electrical equipment delivered in October
- Existing generator still needs to be relocated and elevated
- Plans to energize switchgear in February and close-out contract by May 2026

Cotati # 1 and Kastania Tank Recoating

- Project scope
  - Recoating interior and exterior of tanks
  - Replacing or repairing corroded structural beams/elements and installing lateral bracing and new cathodic protection systems
- Last remnants of coal tar removed from the water system at Kastania
  - Kastania online Sep 2024
- Considerable structural beams replaced in Cotati #1
  - Cotati #1 online Nov 2024
- Project completed under budget in Jan 2025



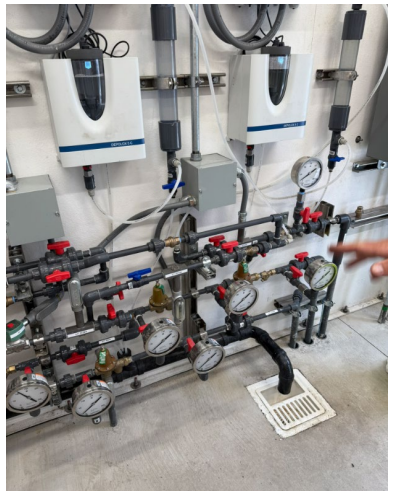
Cotati #3 Recoat and Seismic Project

- 18MG tank – largest in system
  - Originally installed in 1992
- Project scope
  - Recoat interior/exterior of tank
  - Cathodic protection
  - Structural replacements and seismic retrofit of foundation
  - Modifications to tank appurtenances
- Awarded January 2025
- Progress update
  - Structural improvements completed
  - Exterior complete
  - 100% of interior roof and shell is primed
  - Foundation widening scheduled March

Occidental Rd Well #3 Drilling and Well Activation

- Drilling completed and topside design awarded in March 2024
- All major deliveries have been received (above-grade piping, buildings, control panels, and I&C package)
- Submersible pump w/Baski valve installed end of October
- Substantial completion and startup planned in January
- Plan, permit, test and implement recharge components internally (2026)

Santa Rosa Plain Wells Drought Resiliency Project awarded $6.9M State Drought Relief Grant



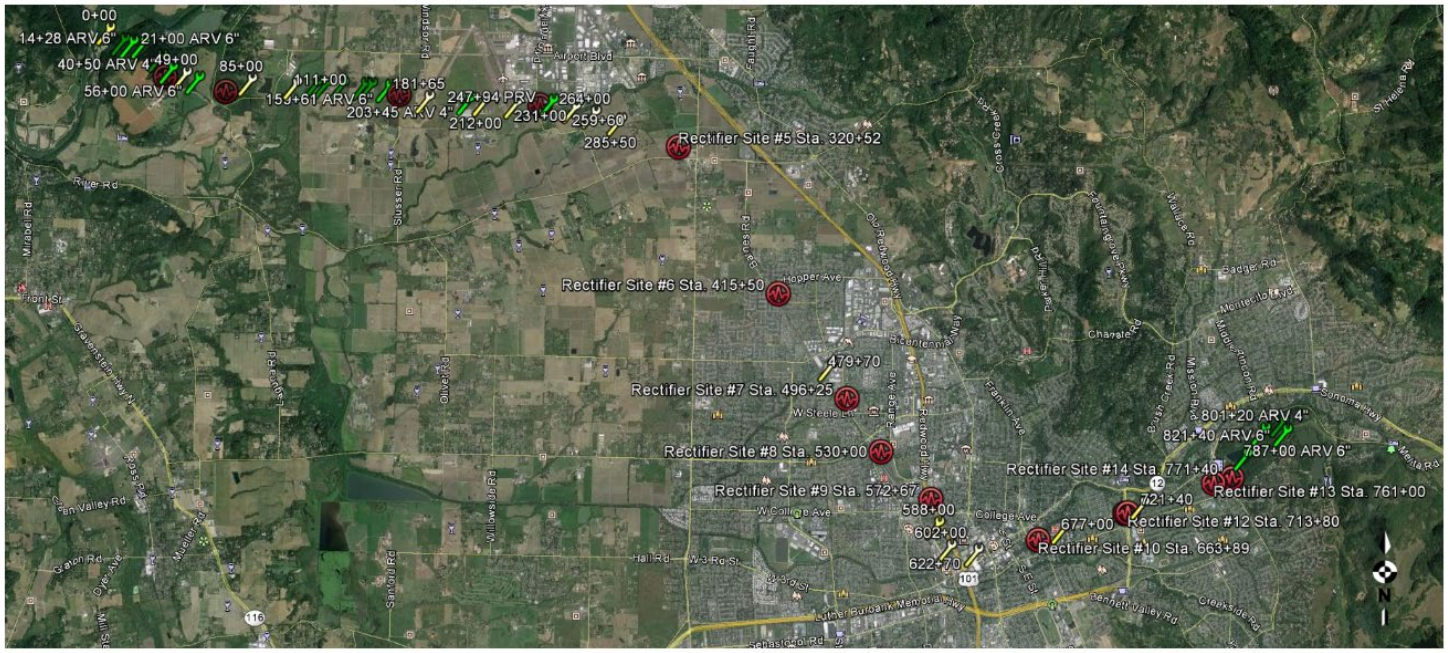
Sebastopol Rd Well Activation

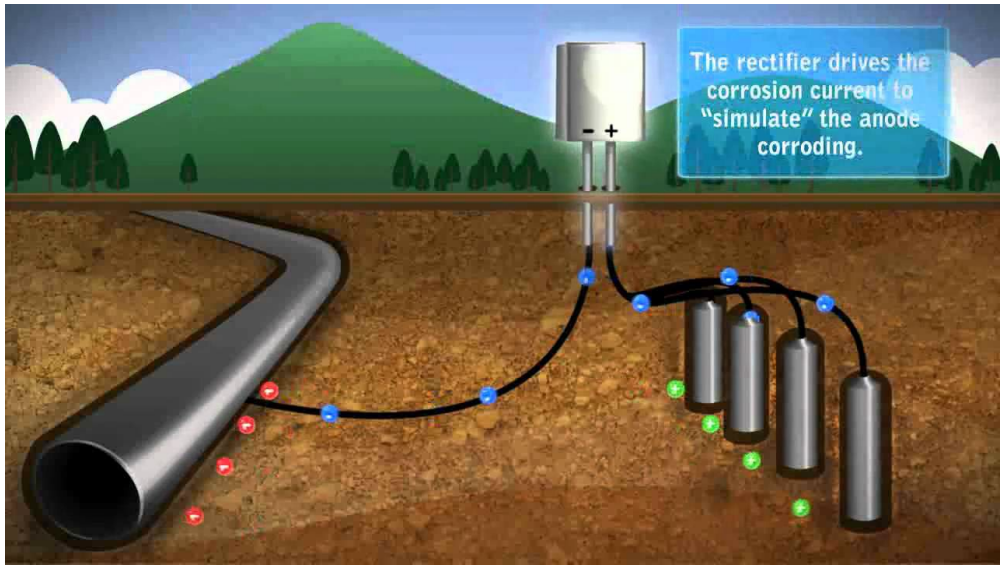
- Electrical equipment delivered February 2025
- Construction punchlist completed Oct and Nov 2025
- ASR pilot testing in progress through early 2026
  - ASR Cycle 2 in progress

Santa Rosa/Cotati Aqueduct Cathodic Protection

- Project split in 2 phases based on ease of R/W and permitting
  - Phase 1
    - 8 total rectifier/anode well sites
    - 8 CP stations
  - Phase 2 –
    - 17-21 total rectifier/anode well sites
    - 21-33 CP stations
- Significant coordination with PG&E
- Phase 1 awarded July 2025
  - Contractor ordering materials
  - Long lead time on meter pedestals
- Phase 2 ROW and permits in progress
  - Survey complete
  - Award in FY27/28

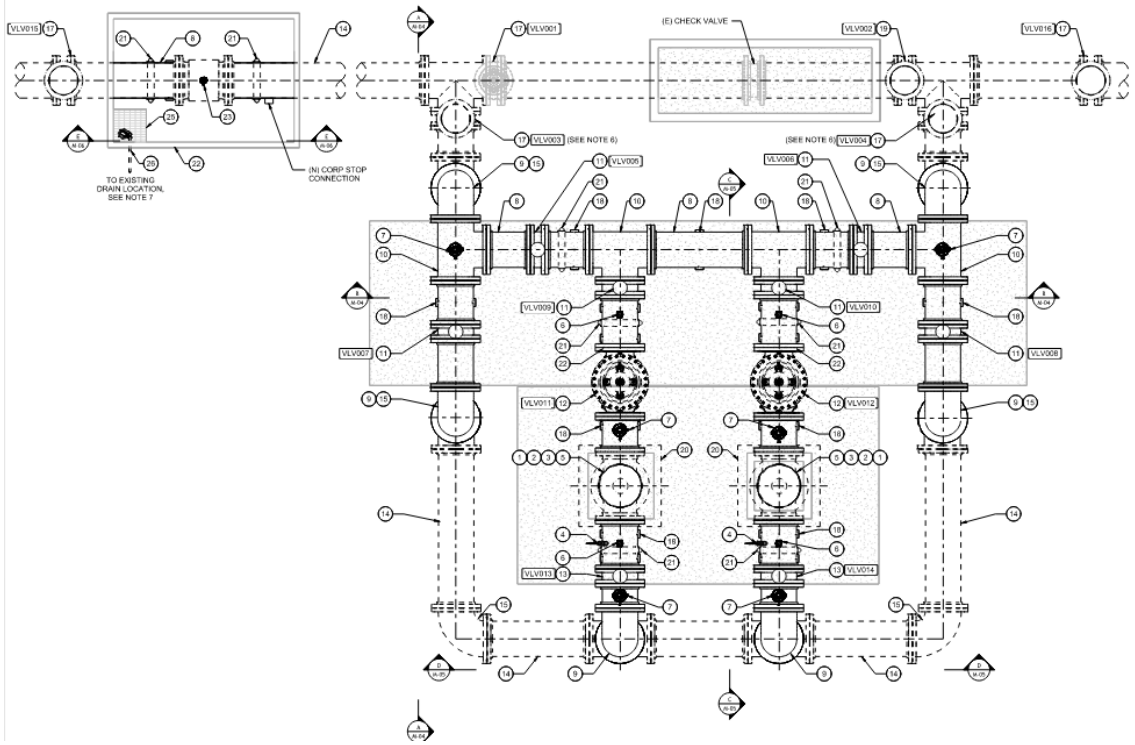
SANTA ROSA AQUEDUCT





Wilfred Booster Station Resiliency

- Project includes
  - New electrical building, switchgear, and VFDs
  - Replace 1st pump set
  - Add 2nd pump set and piping for reliability/resiliency
- Capable of pumping north and south
- Switchgear prepurchased June 2024
- Awarded December 2025



Active Design Projects

	Current Design Stage	Planned Advertise Date
Ralphine Tank Farm Security Fence	100% design	Nov 2025
Ralphine Tank No.1 Recoating & Seismic Improvements	99% design	Jan 2026
RDS Resiliency Improvements	99% design	Jan 2026
Sonoma No.1 Recoating & Seismic Improvements	90% design	Mar 2026
Warm Springs Dam Hydropower	90% design	Apr 2026
Wohler Road Storage Facility	60% design	Dec 2026
Santa Rosa and Russian River-Cotati Intertie Aqueducts Cathodic Protection Upgrade Phase 2	30% design	Sep 2027
Water Treatment System Modernization – CT Compliance	50% design	Dec 2026

Nexgen CMMS System

What is Nexgen?

Our Computerized Maintenance Management System for tracking, managing, and optimizing all maintenance operations across the organization.

January 2023 Implementation Started

12,789
Closed Work Orders

1,563
PM Schedules

17,864
Assets Managed

94,144
Labor Hours Captured

Departments Using Nexgen

- CMMS Services
- Collection System
- Electrical/Instrumentation
- Emergency/Safety
- Facilities Services
- Field Maintenance
- Fleet Maintenance
- Laboratory Services
- Mechanical Maintenance
- SCADA Services
- Warehouse
- Industrial Waste
- Water/Wastewater
- Environmental

Key Features

Reporting • Asset Tracking • Work Order Management • Cross Department Alignment

Working to onboard

- Security
- Land Assets

Nexgen Tank Maintenance Program

CMMS Analysts, Engineers, Managers, and Coordinators collaborated to create a process for tracking tank maintenance and inspections.
All Tank Maintenance tracked in **10-year cycle** via Nexgen Project, tying together all work orders and capturing total cost & metrics.

Contractors
Submit reports

↓

Engineers
Receive & review

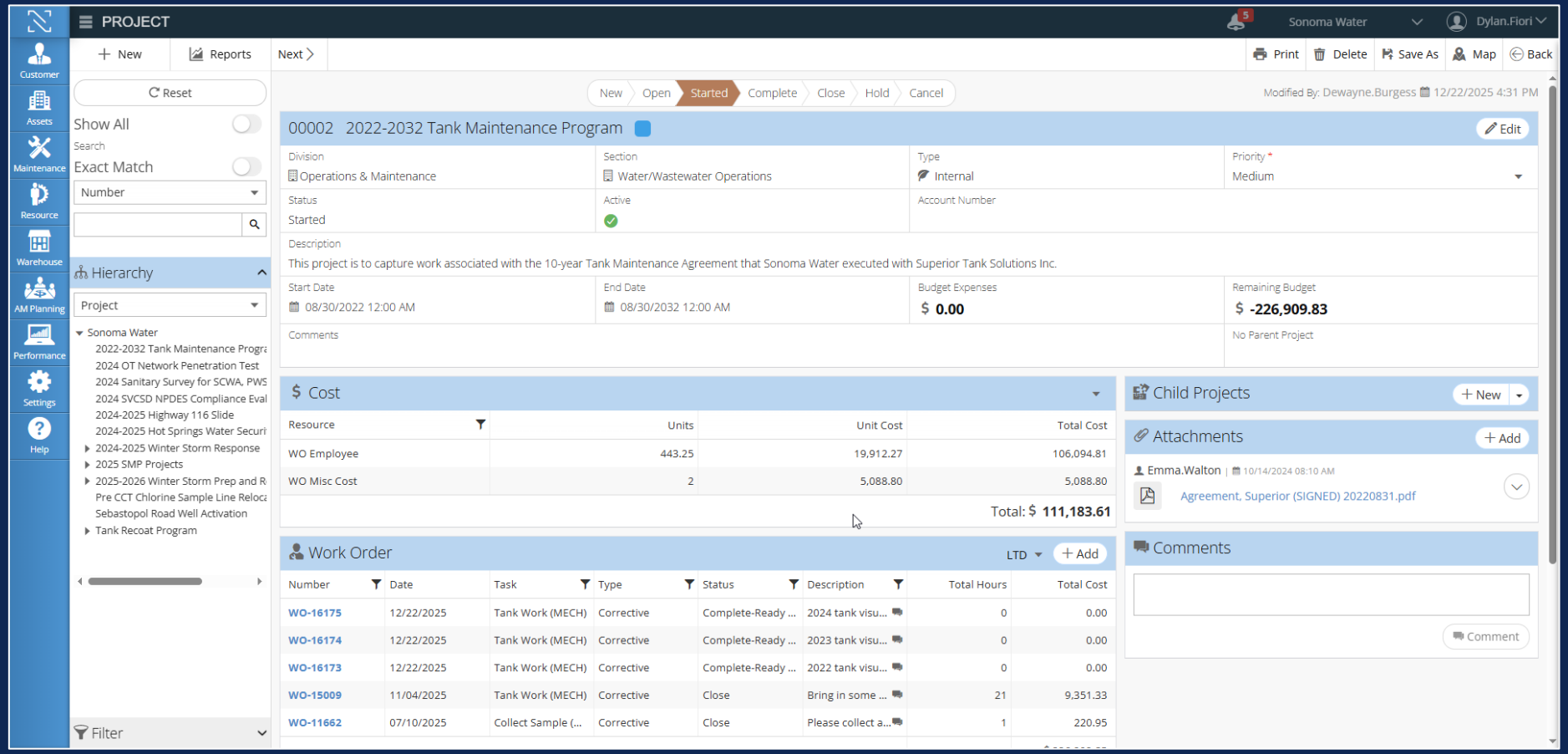
↓

Nexgen System
Create work orders

↓

Field Staff
Review & repair

CMMS Project View - 2022-2032 Tank Maintenance Program



Nexgen – GIS Portal

- Interactive Asset Visualization
  - View assets on an integrated map with accurate geospatial data.
- Spatial Work Order Management
  - Create, view, and assign work orders directly from the map interface.
- Mobile Integration
  - Access GIS portal from field devices for on-site work order completion.
  - Update asset condition and status in real-time.
  - Capture photos, notes, and inspection data directly at the asset location.