



Capital Improvement Program Update

Board Meeting

March 5, 2024



Overview

- FY24 CIP Expenditures
- Key Project Status
- Looking Forward
- Summary



Fiscal Year 2024 CIP Expenditures

FY24 CIP Expenditures

Category	Adopted FY24 Budget	Actual Expenses & Encumbrances*	Actual Remaining Budget	% Remaining Budget	Projected End of FY Expenses & Encumbrances	Projected End of FY Remaining Budget	% Projected Remaining Budget
Pipelines**	\$12,010,000	\$2,654,289	\$9,355,711	78%	\$11,800,000	\$210,000	2%
Pump Stations	\$2,385,000	\$1,381,102	\$1,003,898	42%	\$2,100,000	\$285,000	12%
Storage Tanks	\$5,200,000	\$4,708,843	\$491,157	9%	\$5,200,000	\$0	0%
Treatment Plants	\$2,420,000	\$395,155	\$2,024,845	84%	\$1,500,000	\$920,000	38%
Watershed	\$4,955,000	\$3,446,707	\$1,508,293	30%	\$4,900,000	\$55,000	1%
System Improvements	\$6,011,000	\$3,347,052	\$2,663,948	44%	\$5,600,000	\$411,000	7%
Total	\$32,981,000	\$15,933,148	\$17,047,852	52%	\$31,100,000	\$1,881,000	6%

* Expenditures through 2/28/24

**Includes Fire Flow projects

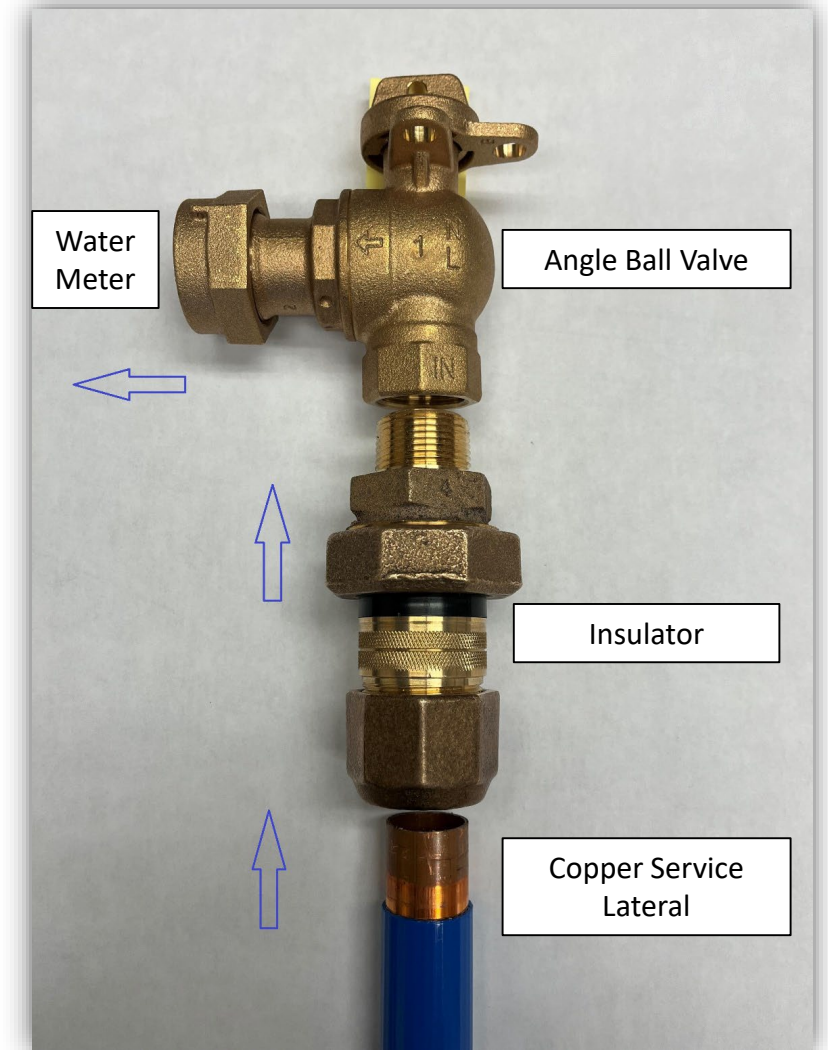
Budgeted Projects FY 24 & FY 25

	Projects	FY 2024	Information
Projects in Planning/Design Phase	Marin City Phase 1 PRP	\$ 1,700,000	9,200 feet of pipe
	Sir Francis Drake Blvd PRP	\$ 600,000	4,500 feet of pipe
	Granada Drive PRP	\$ 2,000,000	10,230 feet of pipe
	Paradise Drive PRP	\$ 1,550,000	2,900 feet of pipe
	Glenwood FFIP	\$ 2,300,000	6,100 feet of pipe
	Wolfback Ridge FFIP	\$ 200,000	1,500 feet of pipe
	Tocaloma Pump Station Upgrades	\$ 825,000	In design
	Kastania Pump Station	\$ 240,000	100% design to be complete by end FY24
	Phoenix-Bon Tempe Connection	\$ 500,000	In design
	Soulajule Electrification	\$ 500,000	Pipeline in design
	Hind Tank Replacement Project	\$ 200,000	Pending property
	SGTP Roof Replacement Project	\$ 1,700,000	In design for summer construction
	Bon Tempe Backwash Line	\$ 500,000	In design with PH/BT project
	Lagunitas Creek Fisheries	\$ 435,000	Underway
	Alpine Barge Pumps & Actuator	\$ 300,000	In design
	SWSA Roadmap Planning/Pre-design	\$ 1,750,000	Underway
	IT Improvement Program	\$ 300,000	Underway
ERP Upgrade	\$ 525,000	Underway	
Capital Equipment Purchase	\$ 1,300,000	Continuing	
Projects in Construction	Redwood Drive FFIP	\$ 700,000	4,400 feet of pipe, in construction
	Wolf Backridge Tank Rehabilitation	\$ 500,000	In construction
	Pine Mountain Tunnel Tanks	\$ 3,500,000	Year 1 construction complete
	Kent Dam Spillway Repairs	\$ 400,000	In construction
	Nicasio Dam Spillway Repairs	\$ 400,000	In construction
	Soulajule Dam Spillway Repairs	\$ 400,000	In construction
	BFFIP Fire & Fuels Management	\$ 2,170,000	In construction
Projects Completed	North Marin Line 3-Valve Cluster	\$ 300,000	Complete
	Treehaven FFIP	\$ 1,300,000	Installed 7,910 feet of pipe. Complete
	Bolsa Tank System Improvements	\$ 450,000	Complete
	Worn Spring Landslide Repair	\$ 450,000	Complete
		\$ 27,995,000	

Installing approx. 47,000 feet (8.8 miles) of pipe between FY 24 & FY 25
 *Bold projects have been completed

Supply Chain Issues

- Foundry closures during pandemic
- Material inventory started to diminish industry wide
- Water agencies inventory became depleted
- Item scarcity includes:
 - Brass Fittings, Copper (service laterals), valves
- Brass Fittings now critical path item:
 - PE service transition
 - Insulating couplings ordered March 2022, received none to date
 - Angle curb valves ordered July 2023 received February 2024 (7mo)



Key Projects Status

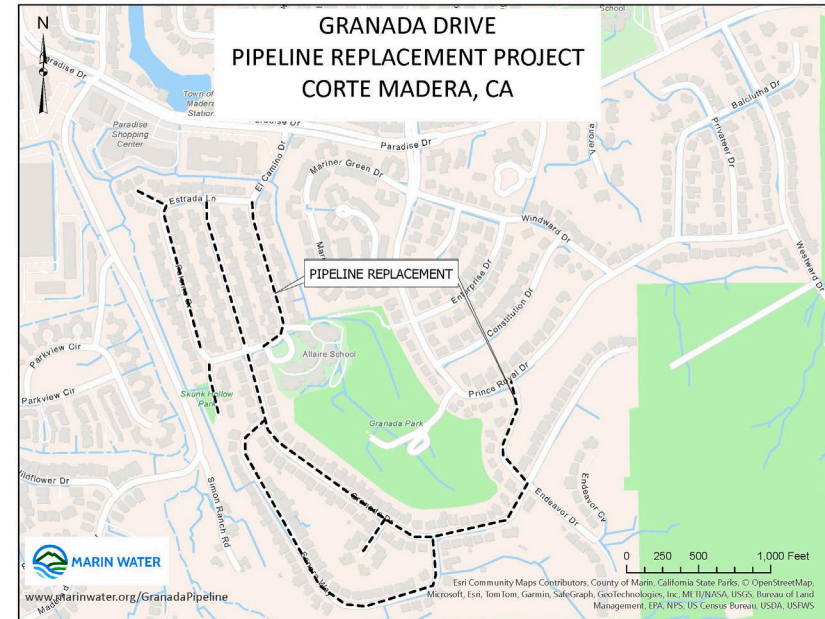
Pipeline Projects

- Granada PRP (Corte Madera)

- Replaces leak-prone cast iron in east Corte Madera
- Replacing 10,230 feet of cast iron pipe
- Project to advertise March and completed in spring 2025

- Marin City PRP

- Will replace remaining cast iron pipe in Marin City
- Phase I in FY24 (9,200 ft) and Phase 2 in FY25 (6,100ft)



Storage Tanks

- Pine Mountain Tunnel
 - Year 1 of Phase 1 complete
 - Phase 1 to be completed Jan 2026
 - Phase 2 in design, construction to begin in FY26
- Wolfback Ridge Tank Recoating
 - Re-coating both 25,000 gal tanks
 - Construction start Oct 2024
 - Complete Feb 2025
- Also includes corrosion protection program extending life of welded steel pipelines



*Future Pine Mountain Tunnel
Tanks Site*

Pump Stations & Treatment Plant

- Tocaloma Pump Station
 - \$4.7M project to replace pump, motors, and electrical system
 - Increase capacity from 20 to 28 MGD
 - Currently in design
 - Expected completion in FY 26
- SGTP Roof
 - \$1.7M project spanning FY24 and FY25
 - In design with construction anticipated for summer 2024 and completion Oct 2024



Tocaloma Pump Station



San Geronimo Treatment Plant Roof

Phoenix – Bon Tempe Connection

- CEQA on schedule with update 3/8
- Phase 1 construction starting August 2024
- Electrical consultant contracted for design of pump station
- Pump storage



Phoenix Lake

Watershed & System Improvements

- Fire & Fuels Management (BFFIP)
 - \$2,170,000 FY24 expenditures
 - Includes \$1,000,000 of budget enhancement
 - Allows for 1,500 acres each year
- ERP Replacement
 - Scoping in process
 - Board updated 3/8



Routine fuelbreak maintenance along Lower Railroad Grade



French broom removal below Bon Tempe Treatment Plant

Additional Water Supply Capital Projects

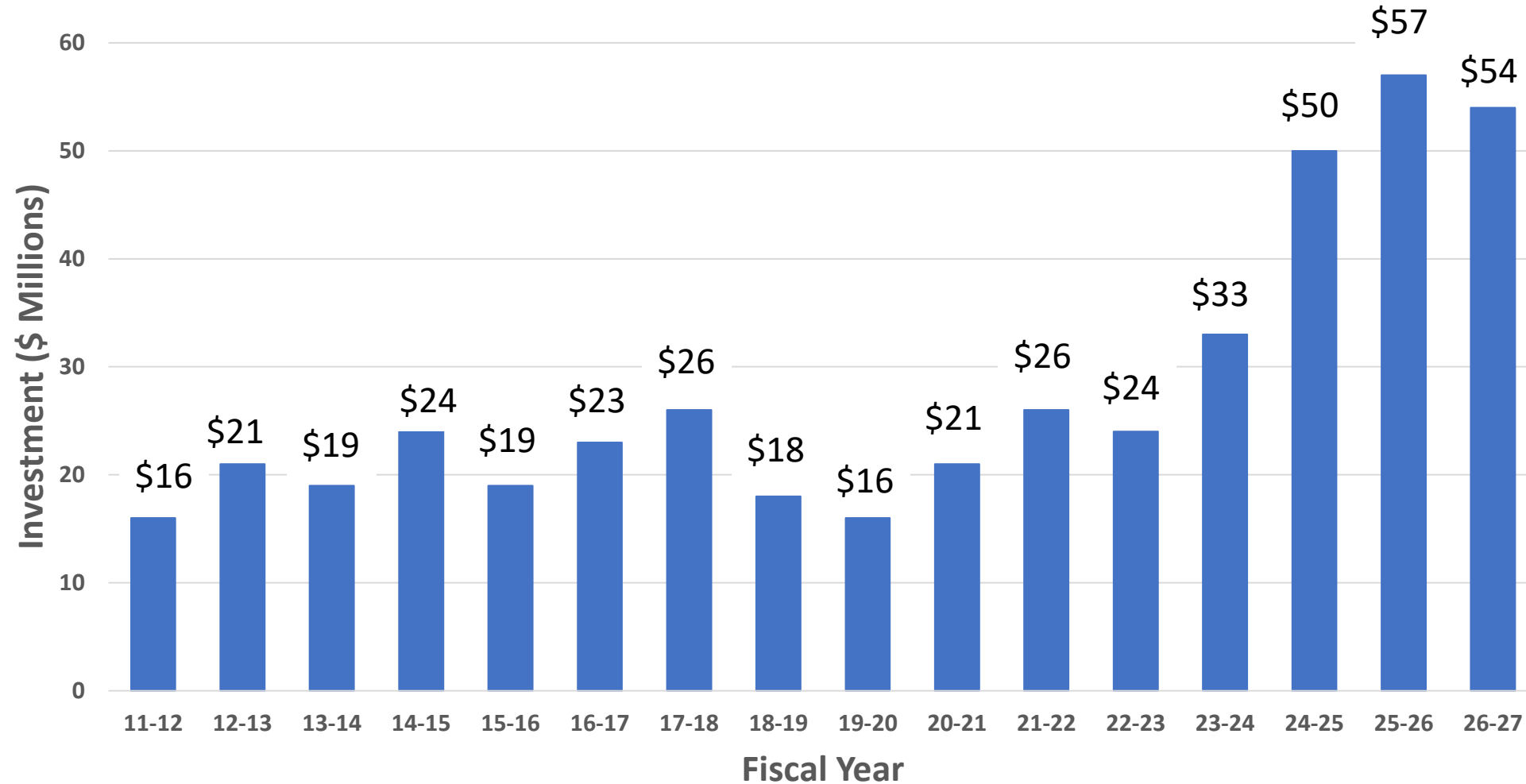
- Soulajule Discharge Pipe
 - Design underway
- Regional Conveyance
 - Preferred alternative selection in mid-summer 2024
- Local Storage
 - Preferred alternative selection in late summer 2024



Soulajule Dam & Pump Station

Looking Forward

CIP Budget Over Time



Resource Considerations

- Identifying workload and additional needed resources
 - Leveraging in-house with consultants, as needed
 - Looking at design-build options
 - Establishing on-call contracts to streamline process
 - Reallocation of positions and strategic hiring of staff

Large Capital Projects

- As part of FY24/FY25 budget discussion, there was Board request to bring back large capital projects for consideration.
- \$5.2M for new debt service included in the approved rates beginning FY26
- Board policy limit debt to four times operating budget currently \$104M
- Remaining debt capacity is approximately \$271M
- Four potential projects

North Marin Line

- Sole transmission from Nicasio and Kent to San Geronimo Treatment Plant
- Sole transmission from San Geronimo Treatment Plant to Smith Saddle Tanks
- 33-inch pre-stressed wire wrapped concrete cylinder pipe installed in 1957
(3.5 miles raw from Kent to SGTP & 3.25 miles treated from SGTP to Smith Saddle Tanks)
- Kent, Nicasio and Soulaajule water conveyed thru pipe



San Geronimo Treatment Plant Clarifiers



Existing Clarifiers lack lateral resistance, SGTP Clarifiers



Rinconada WTP Clarifier After Loma Prieta EQ,

Ross Reservoir Replacement



Ross Reservoir 2018

- Ross Reservoir constructed in 1927
- Water storage for 44,000 customers in Ross Valley Area (25% total customers)

Smith Saddle Tanks



- Smith Saddle Tanks provide 10MG of storage
 - Last interior recoat 1960
 - Last exterior recoat 1983

Large CIP Projects

	Smith Saddle	SGTP Clarifiers	Ross Reservoir	North Marin Line
Estimated Cost	\$24,000,000	\$22,000,000	\$15,000,000	\$21,000,000
Project Justification	If both tanks out of service, demand to be regulated from SGTP and NML pumps	Depending on time of year, direct filtration may not be sustainable	Tank undersized for area served; tank constructed in 1927 and has cracks	SGTP may have no feed for period of time
Status of Project	Scope defined	Scope defined, FEMA grant submitted	Conceptual only	Scope defined
Relative Priority	1	2	3	4

Summary

- FY24/FY25 CIP generally on track
- Resource considerations for enhanced CIP
- Return mid FY 25 for Large Capital bond funding
- Staff to provide CIP quarterly updates to Board