

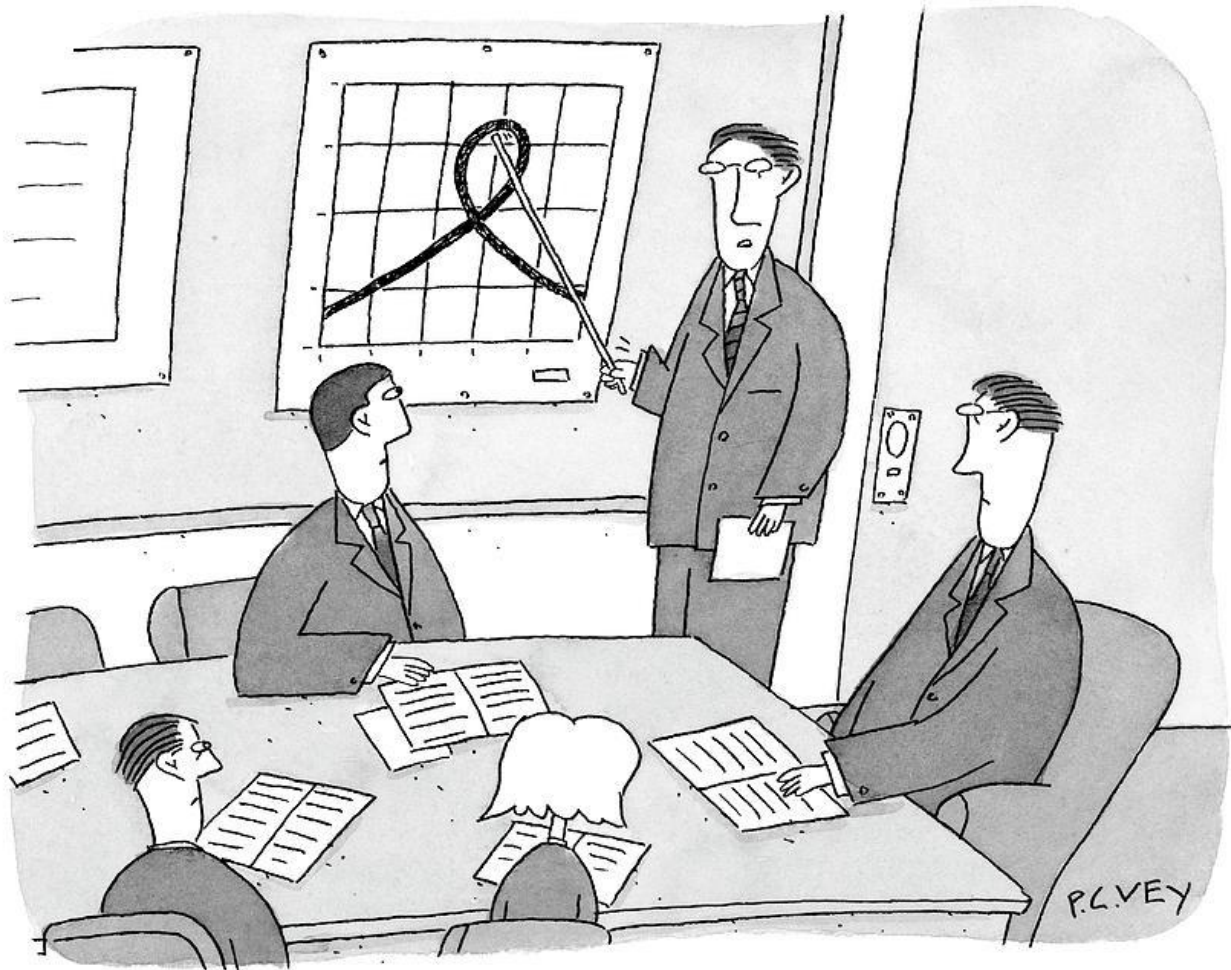


# Change of Course

Master Plan Mini-Updates Using Internal Knowledge

Justin Scott-Coe & Stephanie Reimer, Monte Vista Water District





*"And, of course, this is when all our loose change fell out of our pockets."*







# MVWD Overview

Formed in 1927

- County Water District
- Annexations

Retail Service

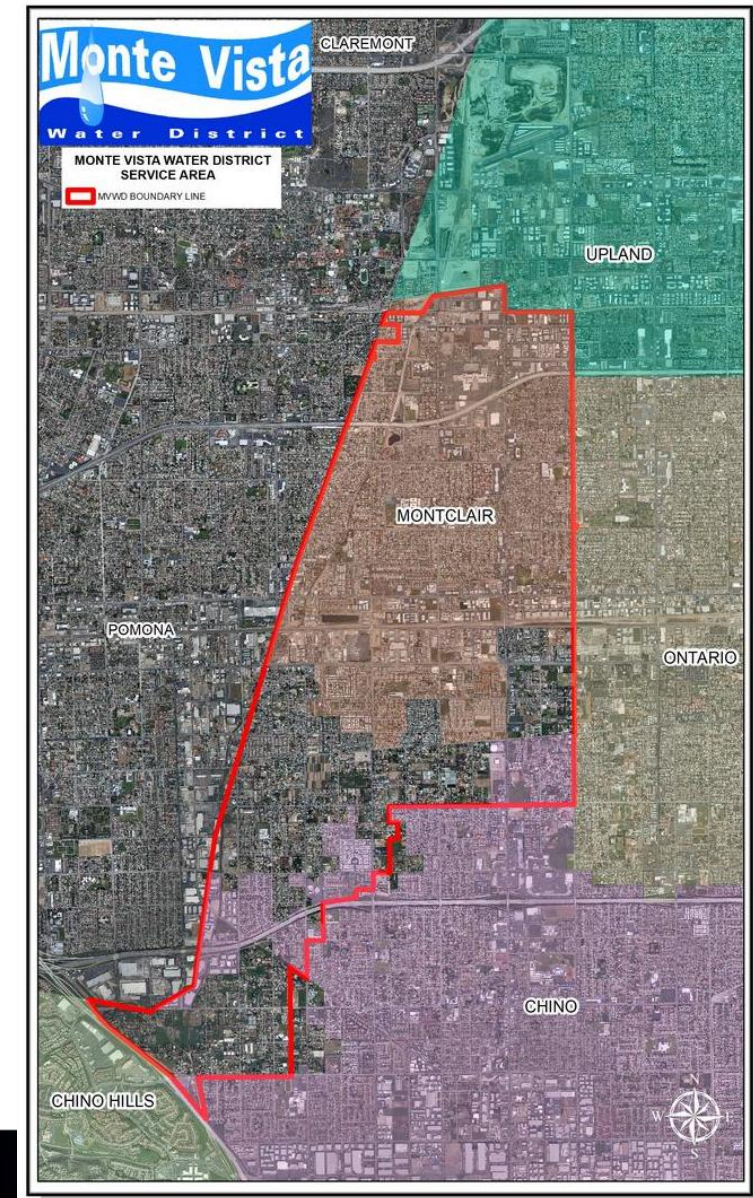
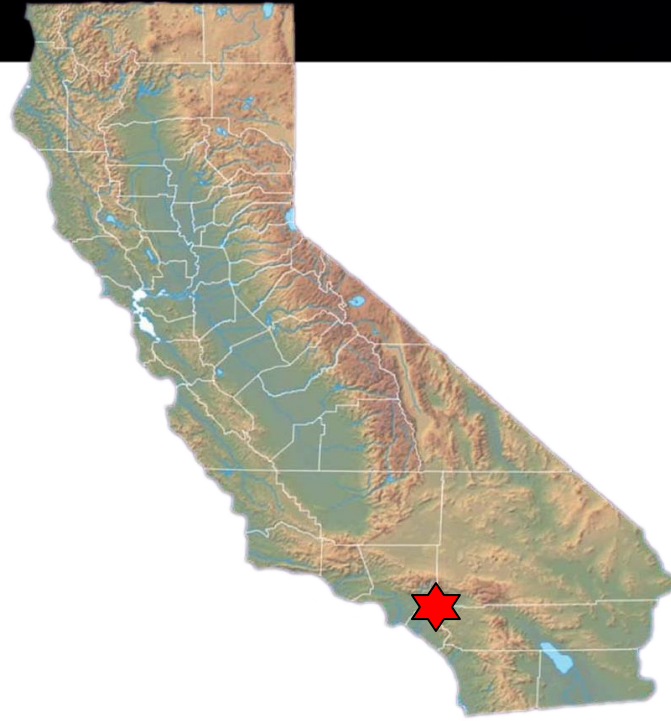
- Montclair
- Chino (portions)
- Unincorporated San Bernardino County

Wholesale Service

- Chino Hills

TOTAL POPULATION SERVED:

134,803



# Capital Improvement Program Planning

## MONTE VISTA WATER DISTRICT 2008 DOMESTIC WATER MASTER PLAN

Final Report



### Monte Vista Water District

General Manager Mark N. Kinsey  
Manager of Engineering,  
Operations, & Maintenance Van M. Jew, P.E.  
Water Systems Supervisor John T. Reddick

### RBF Consulting

Principal-in-Charge Ron Craig  
Project Manager Michael R. Moore, P.E.  
Project Engineer Kevin J. Gustorf, P.E.

December 2008



**RBF** CONSULTING  
PLANNING ■ DESIGN ■ CONSTRUCTION  
14725 ALTON PARKWAY  
IRVINE, CALIFORNIA 92618-2027



## 2020 FINANCIAL MASTER PLAN AND COST OF SERVICE RATE STUDY

Monte Vista Water District

September 2019





# Growing Needs, Opportunities, & Challenges

Water  
Resource  
Development

Main Office  
Site Facility  
Renovation

1,2,3-  
Trichloropropane  
MCL

Pipeline  
Replacement







# 2020 Water Master Plan Mini-Update



Kevin Milligan Consulting -> Framework



Van Jew, District Engineer -> Implementation



Condition Assessment



Focus on Field Staff Knowledge




5-Year Capital Improvement Plan




# Discovery Process

Staff across the Administrative, Engineering, **Operations, Maintenance, and Meter** Department staff engaged in **five workshops**.



**Workshop #1**  
(January 31, 2020):  
Performed a critically and condition assessment of the District's **booster pump stations, groundwater wells, and reservoirs**.



**Workshop #2**  
(February 11, 2020):  
Performed a condition assessment of the District's **pipeline distribution network** and appurtenances (valves, blow-offs, air-vacs, etc.)

# Discovery Process *continued*

## Workshop #3

(March 11, 2020):

Covered the topics of **meters, fleet management, miscellaneous/other** capital items not previously addressed in Workshops 1 & 2.



## Workshop #4

(March 31, 2020):

Proposed a **5-year capital improvement plan** in the previous three workshops.



## Workshop #5

(August 31, 2020):

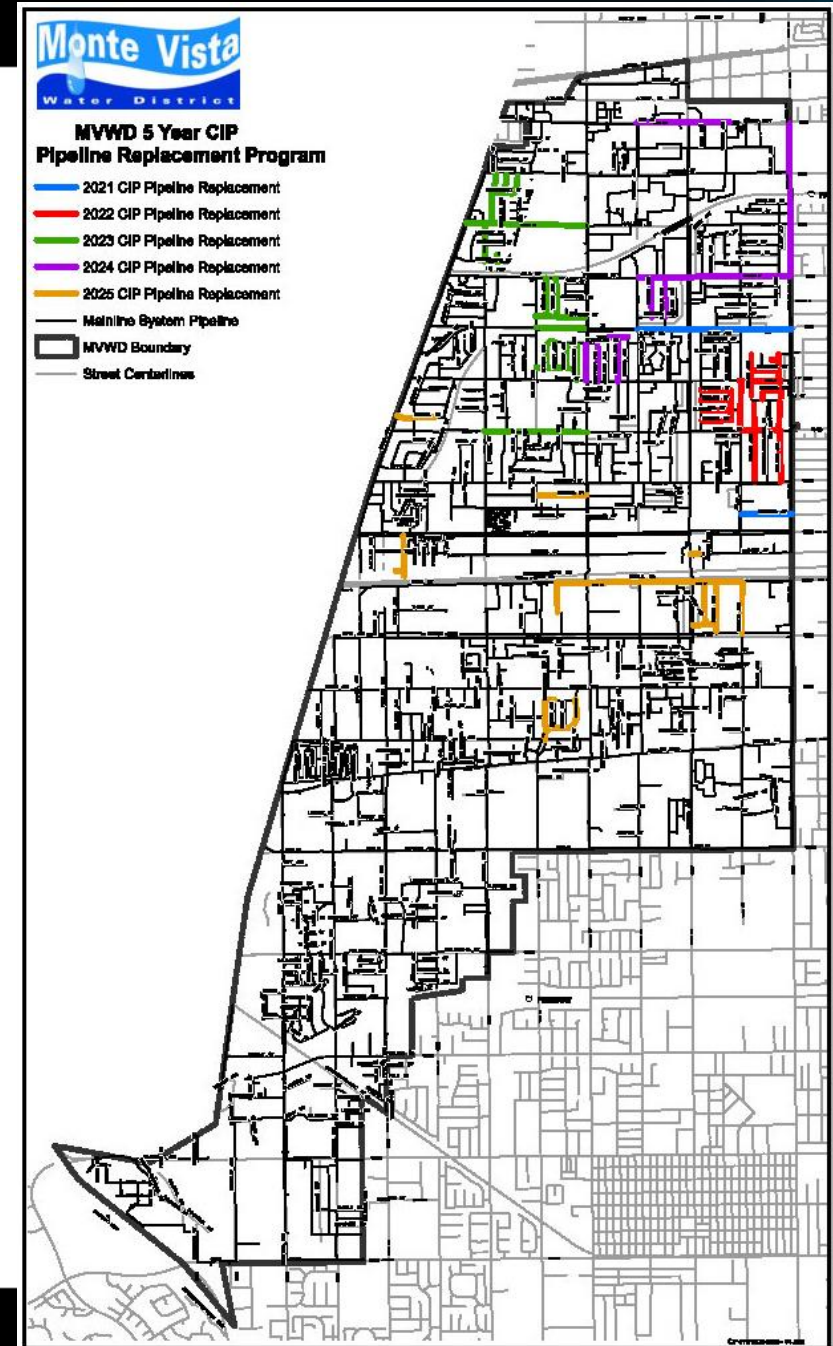
Developed and documented **maintenance schedules** for the District's various assets.



# Findings

- Reservoirs and Booster Pumps: Fair Condition
- Wells: Fair to Poor Condition
- Pipelines: Greatest Need for Attention
- Meters: Replacement/Testing in Development
- Fleet and Maintenance Programs: In Line with Industry Standards

# 5-Year Pipeline Replacement Plan





# Funding Gap

Category	2019 Version	2020 Proposed Version	Increase	Note
Pipeline	\$9,869,655	\$31,857,024	\$21,987,369*	
Storage Facilities	\$ -	\$2,035,900	\$2,035,900	New work identified
Wells & Pumps	\$1,657,095	\$1,685,228	\$28,133	
Plant 30 Wellhead Treatment Project	\$3,946,445	\$15,798,056	\$11,851,611*	timing
MORE Project	\$11,880,535	\$18,523,176	\$6,642,641*	timing
Misc	\$78,294	\$2,922,357	\$2,844,063*	
Well 31 Treatment Plant	\$ -	\$2,121,800	\$2,121,800	TCP
<b>TOTAL</b>	<b>\$27,432,024</b>	<b>\$74,943,542</b>	<b>\$47,261,516</b>	



# Board Communications

- Important to Understand...
  - Strategic Priorities
  - Public Perception
  - Community Standards
- One-on-One Listening
- Workshop Presentations/Discussion
  - Integration with Budget Preparation





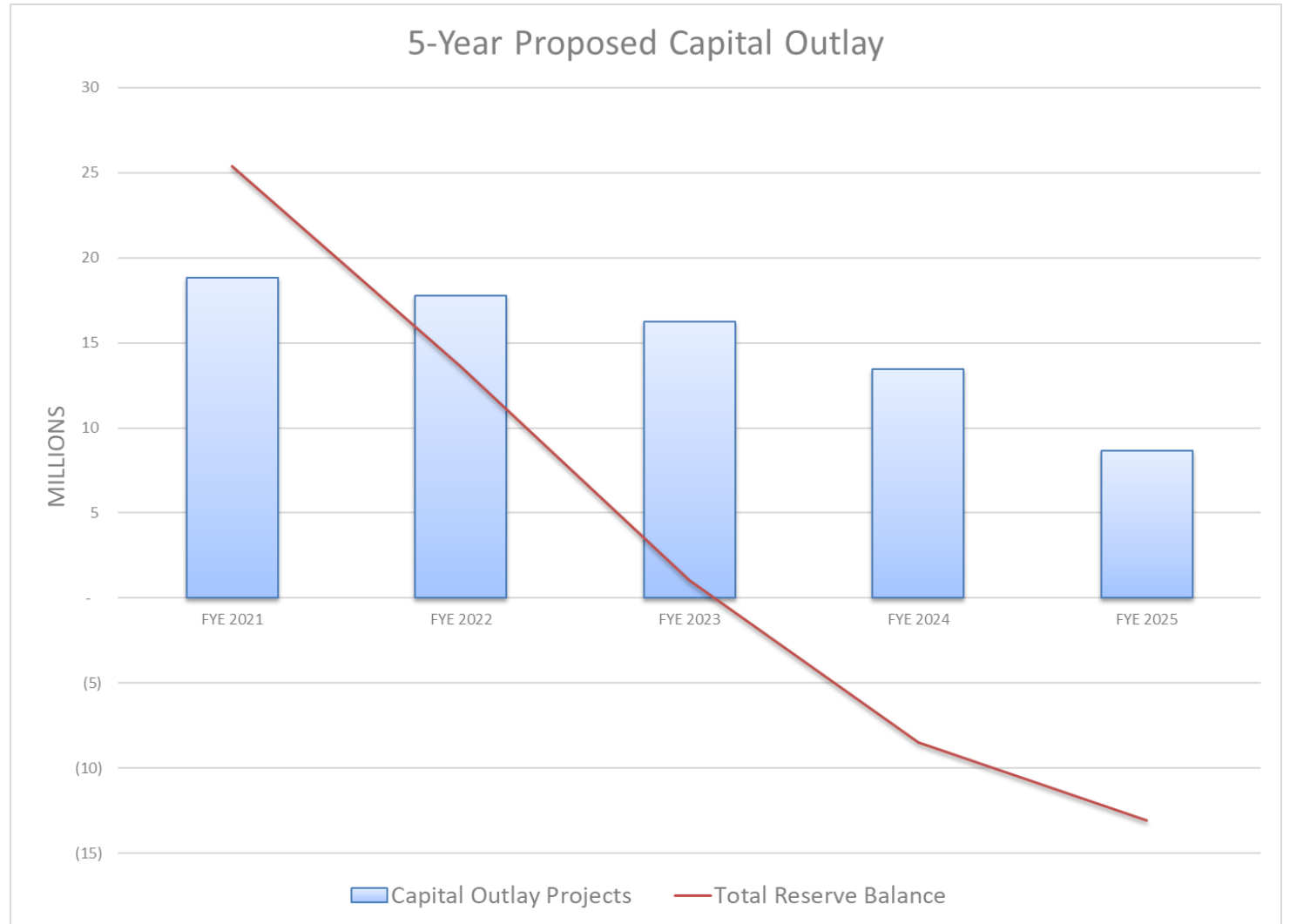
# Scenario 1:

## Continue CIP projects and 5-Year CIP Plan.

### Scenario - Pipeline 0 - 5 Miles Annually

Category	FYE 2021	FYE 2022	FYE 2023	FYE 2024	FYE 2025	
<i>Pipeline Miles</i>	0	5	5	5	5	TOTALS
Pipeline	\$ 788,155	\$ 7,426,300	\$ 7,649,089	\$ 7,878,562	\$ 8,114,919	\$ 31,857,024
Storage Facilities	975,000	1,060,900	-	-	-	\$ 2,035,900
Wells & Pumps	354,000	318,270	-	1,012,958	-	\$ 1,685,228
Plant 30 Wellhead Treatment Project	15,798,056	-	-	-	-	\$ 15,798,056
MORE Project	300,000	5,956,770	8,107,782	4,158,625	-	\$ 18,523,177
Misc	590,900	858,957	496,098	415,313	561,089	\$ 2,922,357
Well 31 Treatment Plant	-	2,121,800	-	-	-	\$ 2,121,800
TOTAL	\$ 18,806,111	\$ 17,742,997	\$ 16,252,969	\$ 13,465,458	\$ 8,676,008	\$ 74,943,542

# Scenario 1: Continue CIP Projects and 5-year Plan



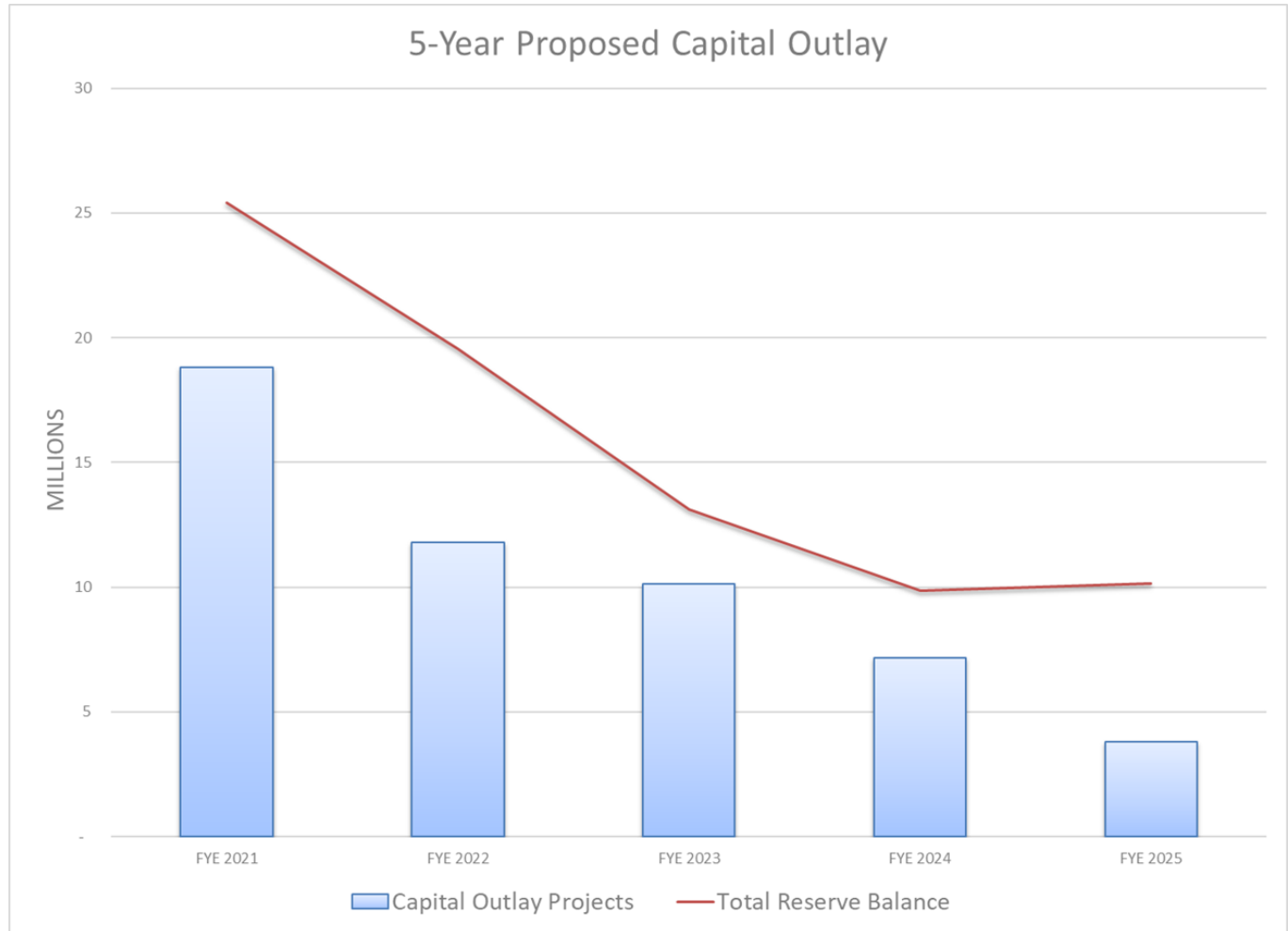


# Scenario 2:

## Main Office project and minimal pipeline replacement.

Scenario - Pipeline 0 - 5 Miles Annually						
Category	FYE 2021	FYE 2022	FYE 2023	FYE 2024	FYE 2025	
Pipeline Miles	0	1	1	1	2	TOTALS
Pipeline	\$ 788,155	\$ 1,485,260	\$ 1,529,818	\$ 1,575,712	\$ 3,245,967	\$ 8,624,913
Storage Facilities	975,000	1,060,900	-	-	-	\$ 2,035,900
Wells & Pumps	354,000	318,270	-	1,012,958	-	\$ 1,685,228
Plant 30 Wellhead Treatment Project	15,798,056	-	-	-	-	\$ 15,798,056
MORE Project	300,000	5,956,770	8,107,782	4,158,625	-	\$ 18,523,177
Misc	590,900	858,957	496,098	415,313	561,089	\$ 2,922,357
Well 31 Treatment Plant	-	2,121,800	-	-	-	\$ 2,121,800
TOTAL	\$ 18,806,111	\$ 11,801,957	\$ 10,133,698	\$ 7,162,608	\$ 3,807,056	\$ 51,711,431

## Scenario 2: Main Office project & minimal pipeline replacement



# Scenario 3:

**Modified Main Office project and maintain pipeline projects.**

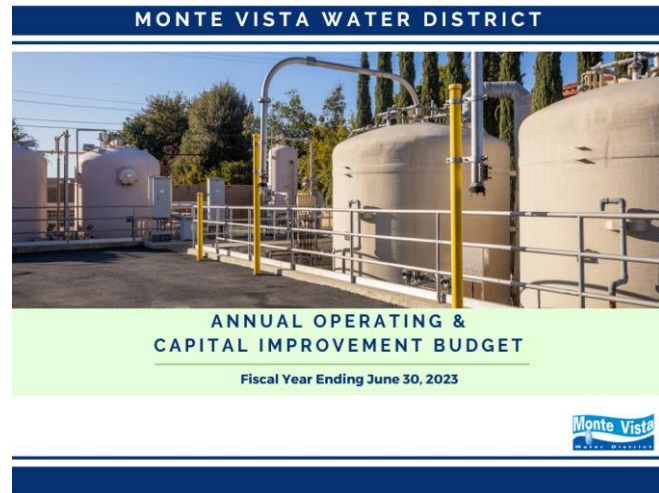
Scenario - Pipeline 0 - 5 Miles Annually				MORSP Scenarios:		2
Category	FYE 2021	FYE 2022	FYE 2023	FYE 2024	FYE 2025	
Pipeline Miles	1	3	3	3	3	TOTALS
Pipeline	\$ 2,228,857	\$ 4,455,780	\$ 4,589,453	\$ 4,727,137	\$ 4,868,951	\$ 20,870,179
Storage Facilities	975,000	1,060,900	-	-	-	\$ 2,035,900
Wells & Pumps	354,000	318,270	-	1,012,958	-	\$ 1,685,228
Plant 30 Wellhead Treatment Project	15,798,056	-	-	-	-	\$ 15,798,056
MORE Project	150,000	2,500,000	2,500,000	-	-	\$ 5,150,000
Misc	590,900	858,957	496,098	415,313	561,089	\$ 2,922,357
Well 31 Treatment Plant	-	2,121,800	-	-	-	\$ 2,121,800
TOTAL	\$ 20,096,813	\$ 11,315,707	\$ 7,585,551	\$ 6,155,408	\$ 5,430,040	\$ 50,583,520



# Scenario 3: Modified Main Office project & maintain pipeline projects



# Integrations



## RATE RESOLUTIONS\*

### RESIDENTIAL

Budget-Based Tiered Rate	Rate
Residential Tier 1	\$2.01
Residential Tier 2	\$3.64
Residential Tier 3	\$4.05
Residential Tier 4	\$4.94

### IRRIGATION

Budget-Based Tiered Rate	Rate
Irrigation Tier 1	\$2.61
Irrigation Tier 2	\$3.95

### ALL OTHER CUSTOMERS

Fiat Rate	Rate
Domestic Water	\$2.61
Recycled Water	\$2.09

## Monte Vista Water District 2025 Strategic Plan

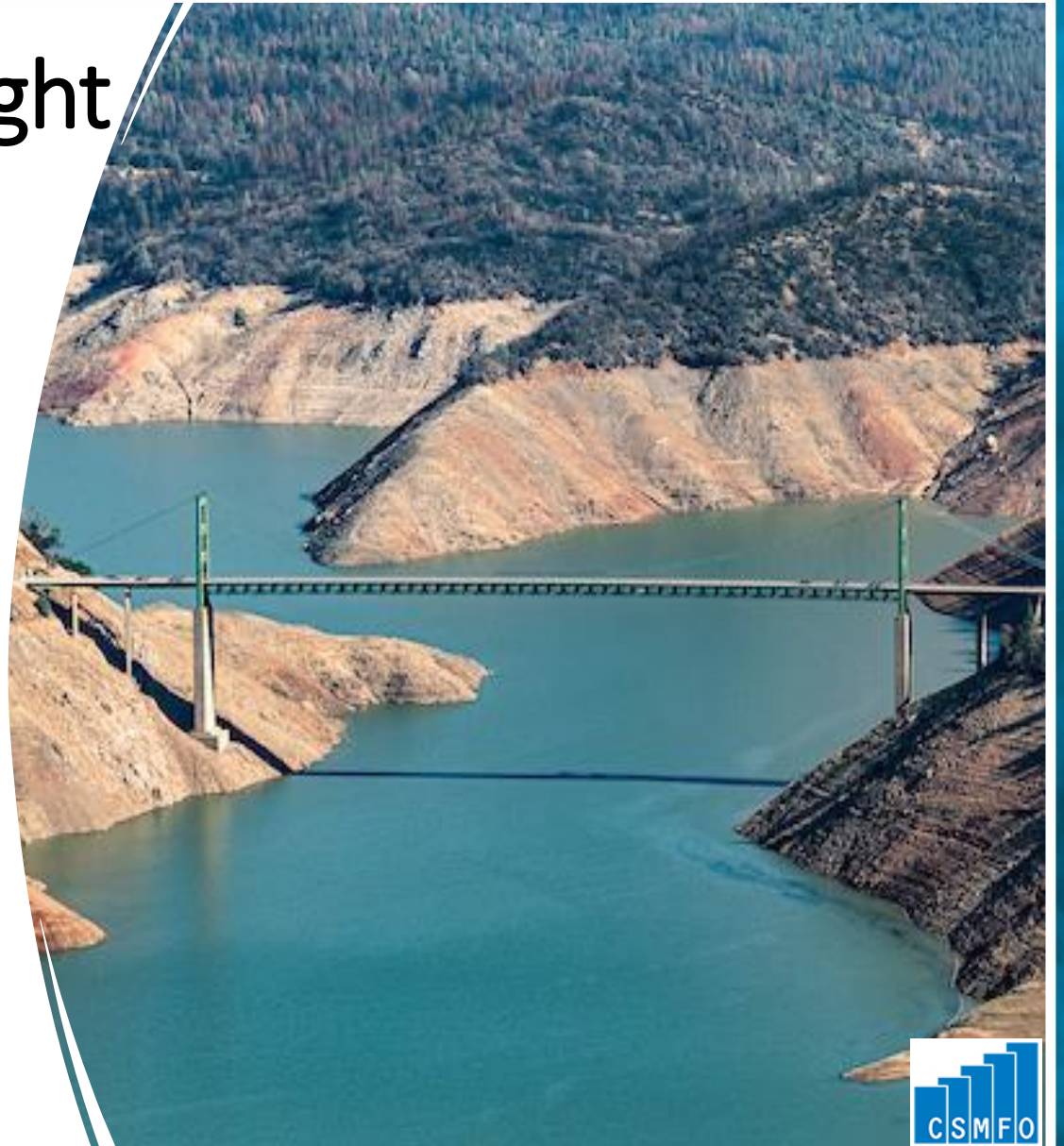


Adopted by  
the Board of  
Directors

October 2020

# Ongoing Challenges – Drought

- Imported Water Supply Unreliability/Restrictions
- Accelerated Local Resource Development
- Demand Management







# Ongoing Challenges – Supply Chain Disruption

- Procurement Difficulties
- Capital Construction Constraints
- Creative Strategies & Adjustments



# Ongoing Challenges - Inflation

- Blown-up CIP
- Finding More or Doing Less
- Prioritization



# Funding Options

- Pay-Go
  - Reserve Capacity
- Debt
  - Bond Covenants
- Grants
  - Focused Effort
- Rates and Fees
  - Proposition 218 - Cost of Service
  - Connection Fees
  - Special Tax?





# Lessons Learned

Staff Know the  
System

Mini-Update  
Framework  
Assisted  
Decision-Making

Ongoing  
Adaptation to  
Changing  
Conditions



thank you

Justin Scott-Coe  
General Manager  
909.267.2125  
[jscottcoe@mvwd.org](mailto:jscottcoe@mvwd.org)

Stephanie Reimer  
Asst. General Manager/CFO  
909.267.2151  
[sreimer@mvwd.org](mailto:sreimer@mvwd.org)