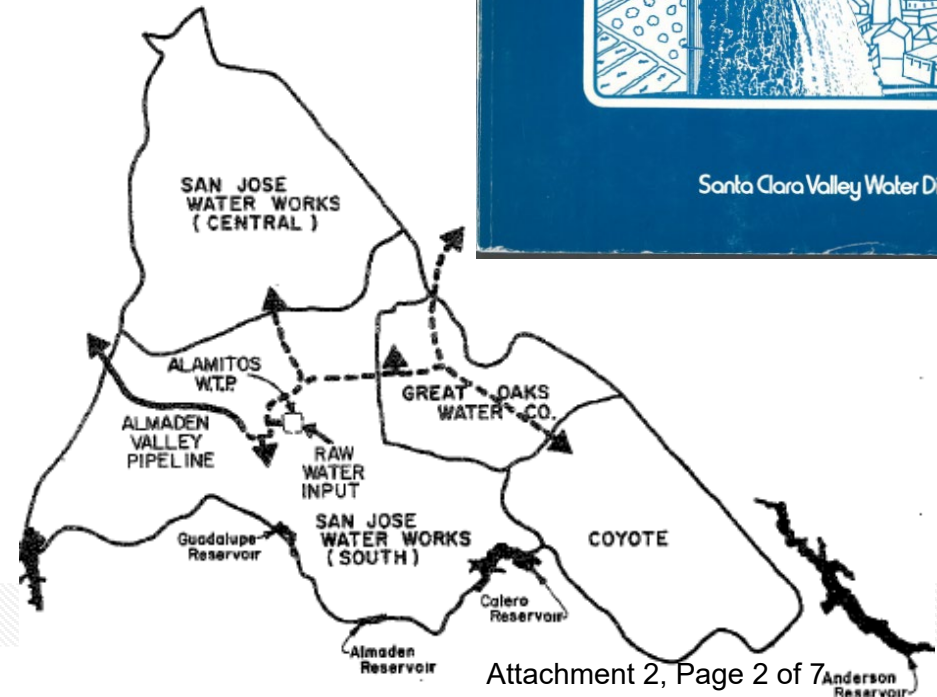
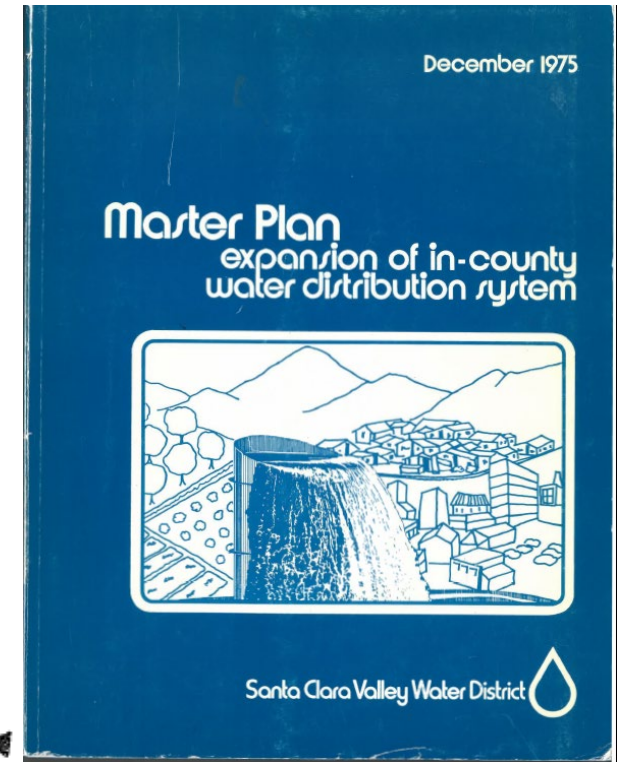


SCADA Master Plan Implementation Project: Overview & Consultant Agreement Approval

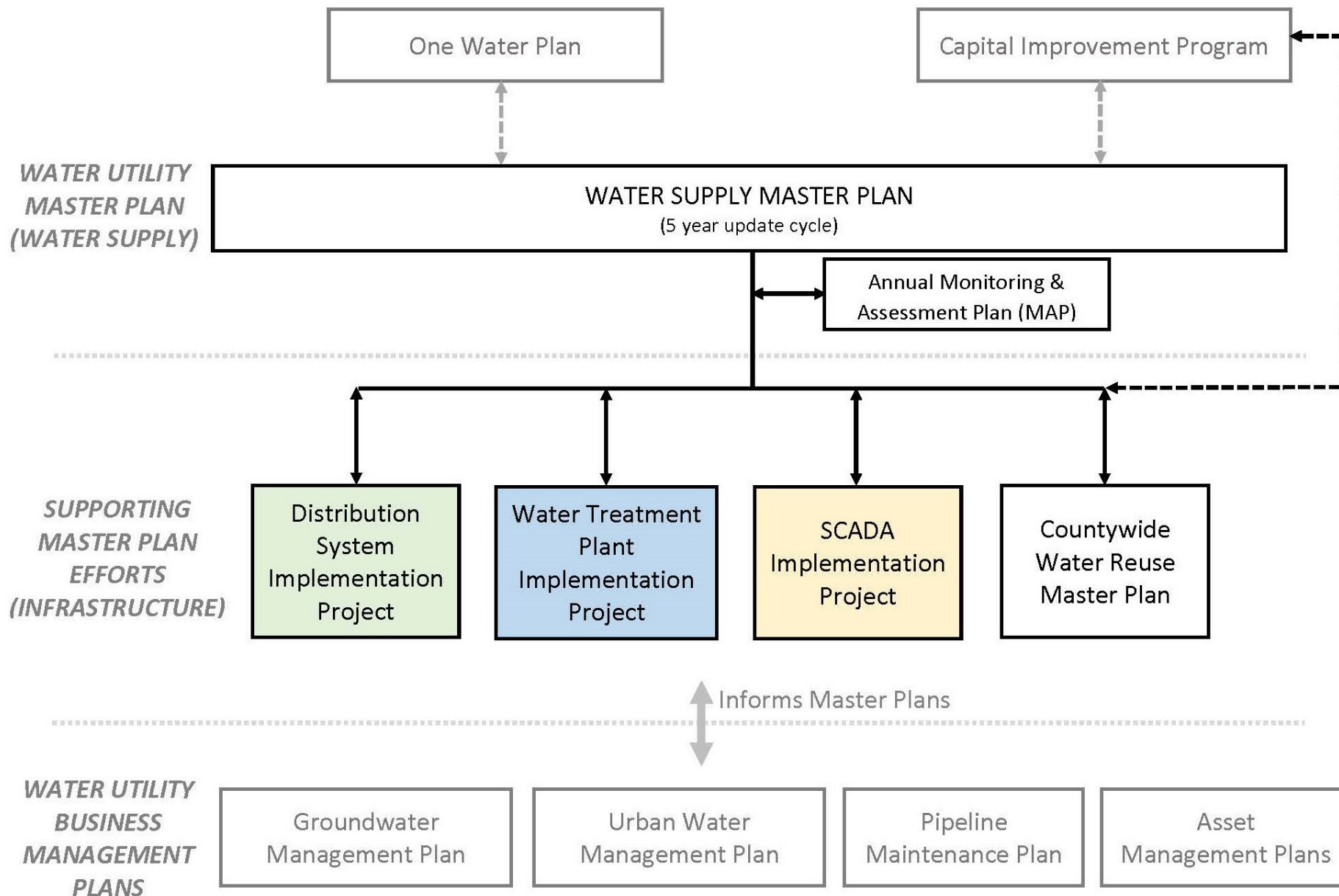
May 24, 2022

Purpose

- Last comprehensive infrastructure master plan was in 1975
- Currently facing variety of needs for infrastructure investments due to:
 - Aging and obsolete infrastructure
 - Changes in future demands
 - Upcoming regulatory requirements
 - Need to improve efficiency
 - Need for redundancy to enable maintenance and prevent service outages
 - New supplies coming online



Water Utility Planning Overview

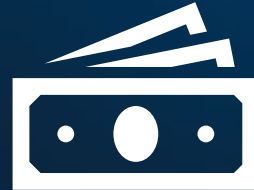


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SCADA Master Plan Implementation Project Overview

Consultants:
Black & Veatch
Harris Water Engineering



Budget: \$6.47M

Black & Veatch: \$2.99M

Harris: \$0.79M

VW Labor: \$1.67M

Other Tech Studies: \$1.02M



Schedule:

June 2022 – Mar 2025

Key Deliverables:

- 15-year Capital Improvement Program for SCADA infrastructure at all Water Utility facilities (reservoirs, pipelines, treatment facilities, etc.)
- 10% Design for 'early implementation projects'
- 10% Design for projects in first 5 years of planning horizon
- Programmatic Environmental Impact Report

Additional Project Details

Two Consultants:

- Black & Veatch, \$2.99M: Engineering and environmental planning services
- Harris Water Engineering, \$0.79M: Owner's technical advisor services

Planning and 10% Design for Early Implementation Projects:

- Replace original pipeline copper communication cable with fiber
- Construct backup raw water operations control center

Project Highlights:

- Plan for upgrade and modernization of SCADA assets
- Develop detailed design and programming standards
- Incorporate cybersecurity best practices into planned projects

Questions?