



Santa Clarita Valley Water Agency

Capital Improvement Plan FY 2023/24 and FY 2024/25 Budget

Finance and Administration
Committee Meeting

Fiscal Year 2024 - Pay-Go

Capital Improvement Projects By Category	PAY-GO Proposed Budget FY 2023/24
Admin & Tech	\$ 7,160,000
Appurtenance Improvements	410,000
Booster Station/Turnout Improvements	4,347,000
Capital Planning & Studies	5,844,340
Disinfection System Improvements	1,100,000
ESFP Improvements	1,755,000
ESIPS Improvements	100,000
General Facility Improvements & Replacements	100,000
Laboratory Improvements	75,000
Meter & Meter Infrastructure Improvements	2,775,000
Minor Capital	100,000
Pipelines & Pipeline Improvements	2,165,000
Pipelines & Pipeline Replacements	11,846,000
Recycled Water Improvements	1,000,000
RVIPS Improvements	540,000
RVTP Improvements	2,668,000
Tanks & Tank Facility Improvements	10,438,000
Technology Improvements	300,000
Treatment Plant Improvements	1,583,000
Water Resources & Supply	6,636,800
Wells & Well Facility Improvements	15,155,000
Wells & Well Facility Improvements - PFAS	248,000
Total CIP	\$ 76,346,140

Revenue Source: \$18,099,530 Revenues | \$49,739,109 Available Carry over | \$8,507,501 Retail Capacity Fees

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Fiscal Year 2025 - Pay-Go

Capital Improvement Projects By Category	PAY-GO Proposed Budget FY 2024/25
Admin & Tech	\$ 5,202,500
Appurtenance Improvements	410,000
Booster Station/Turnout Improvements	2,141,000
Capital Planning & Studies	5,922,404
Disinfection System Improvements	1,100,000
ESFP Improvements	1,955,000
ESIPS Improvements	100,000
General Facility Improvements & Replacements	100,000
Laboratory Improvements	125,000
Meter & Meter Infrastructure Improvements	2,700,000
Minor Capital	100,000
Pipelines & Pipeline Improvements	2,275,000
Pipelines & Pipeline Replacements	11,957,500
Recycled Water Improvements	800,000
RVIPS Improvements	540,000
RVTP Improvements	2,693,000
Tanks & Tank Facility Improvements	4,332,000
Technology Improvements	300,000
Treatment Plant Improvements	290,000
Wells & Well Facility Improvements	7,633,000
Wells & Well Facility Improvements - PFAS	203,000
Total CIP	\$55,689,804

Revenue Source: \$15,757,834 Revenues | \$8,973,410 Available Carry over | \$30,958,599 Reserves



Engineering CIP Overview - PayGo

Capital Projects	FY 2023/24 Projected	FY 2024/25 Projected
Saugus 3 & 4 Replacement Wells (C)	\$ 12,330,000	\$ 4,458,000
RVWTP Underground Storage Tank Replacement (C)	\$ 1,583,000	\$ 290,000
Dickason Pipeline Replacement (C)	\$ 2,500,000	\$ 0
Smyth Pipeline Replacement (C)	\$ 1,000,000	\$ 1,200,000
Abdale St, Maplebay Ct, Beachgrove Ct Water Pipeline Replacement (C)	\$ 1,000,000	\$ 1,400,000
Valencia Marketplace Pipeline Replacement (C)	\$ 3,200,000	\$ 1,000,000
Sand Canyon Sewerline Relocation	\$ 212,000	\$ 1,056,000
Pipeline Relocations (C)	\$ 1,000,000	\$ 6,000,000



Engineering CIP Overview - PayGo

Capital Projects Continued	FY 2023/24 Projected	FY 2024/25 Projected
Deane Tank - One 2.08 MG Tank @ Skyline Ranch* (C)	\$ 3,500,000	\$ 100,000
Deane Tank - One 1.5 MG Tank @ Sand Canyon Plaza* (C)	\$ 4,750,000	\$ 1,000,000
Deane Pump Station @ Sand Canyon Plaza* (C)	\$ 2,750,000	\$ 50,000
Total of Projects less than \$1 M	\$ 5,190,000	\$ 5,405,500
Total Engineering Capital Projects - PayGo	\$ 39,015,000	\$ 21,959,500

**A portion of these projects are offset [\$8,507,501] by SCWD Retail Capacity Fees*



Saugus Wells 3 & 4

- Construction
 - New Wells drilled in the Saugus Formation
 - These wells are replacing other wells impacted by PFAS *
 - Currently in the isolated aquifer zone testing phase for Saugus well #3. (Completed 4 out of 14 zones)
- Project Details
 - Drilling New wells estimated at 2,000 gpm each
 - Total of approximately 6,500 AFY
 - Associated pipelines installation



RVWTP Underground Storage Tank Replacement

- Construction
 - Replace existing underground storage tank that provides diesel fuel storage for the standby generator at the Rio Vista Water Treatment Plant (RVWTP)
- Project Details
 - Existing underground storage tank in-service for about 25 years and industry average lifespan is 20 years.
 - Remove existing 8,000-gallon underground storage tank and install new above ground 8,000-gallon diesel fuel storage tank
 - Provide temporary fuel during construction to keep the standby generator operational



Groundwater Treatment Improvements

- Construction
 - PFAS Groundwater Treatment for Santa Clara/Honby
 - Groundwater Treatment for Well 201
 - Groundwater Treatment for Well 205
 - Groundwater Treatment for E Wells
 - PFAS Groundwater Treatment for the T7, U4, and U6 Wells and VOC Treatment for Saugus 1 and 2 Wells.
- Project Details
 - Construct treatment facilities for various Wells.
 - Santa Clara/Honby restore production up to 3,875 AFY
 - Well 201 production up to 3,225 AFY
 - Well 205 production up to 4,350 AFY
 - E Wells production up to 7,700 AFY
 - Wells T7*,U4*,U6* restore production up to 5,500* AFY
 - **Total production of approximately 17,075 AFY**



Santa Clara & Honby Wells PFAS Treatment

Deane Zone Improvements

- Construction
 - 2.08 MG Tank @ Skyline Ranch
 - Pump Station @ Skyline Ranch
 - 1.5 MG Tank @ Sand Canyon Plaza
 - Pump Station/Pipelines @ Sand Canyon Plaza
- Funding
 - Developer pays their fair share of facilities plus facility capacity fees
 - Capacity Fees fund a portion of CIP for new system capacity
- Benefits of Participation
 - Developer contributed land
 - Developer conducted environmental review (CEQA)
 - Economies of scale for design & construction
 - Addresses deficiencies in existing system



Engineering & Operations - PayGo

Pipeline Improvements and Replacements

- Engineering and Operations work collaboratively on pipeline improvement projects
- Projects are based on several criteria
 - Age, material and failure rate, location and criticality, unforeseen and unexpected projects

Capital Projects	FY 2023/24 Projected	FY 2024/25 Projected
Dickason Pipeline Replacement (C)	\$ 2,500,000	\$ 0
Smyth Pipeline Replacement (C)	\$ 1,000,000	\$ 1,200,000
Abdale St, Maplebay Ct, Beachgrove Ct Water Pipeline Replacement (C)	\$ 1,000,000	\$ 1,400,000
Valencia Marketplace Pipeline Replacement (C)	\$ 3,200,000	\$ 1,000,000
Sand Canyon Sewerline Relocation	\$ 202,000	\$ 1,056,000
Pipeline Relocations (C)	\$ 1,000,000	\$ 6,000,000
Operations Pipeline Replacements (Newhall Ave, Beneda Ln, Via Princessa, Simay Ln, Begonias Ct, Vasquez Cyn, C1 Drain)	\$ 1,665,000	\$ 1,225,000
Placeholder Unforeseen/Unexpected Improvements/Replacements	\$ 1,025,000	\$ 1,670,000
Identified Pipeline Improvements/Replacements (Newhall Ranch Rd/Tibbitts, Newhall Ranch Rd/Bouquet Cyn, Vasquez Cyn)	\$ 5,696,900	\$ 5,696,900



Pipeline Improvements & Replacements

Total miles of pipe = ~920

- Projects

- Planning/Design:

- RVTP Sewer
 - Sand Canyon Sewer
 - Vasquez Cyn

- Construction:

- Dickason Drive (PVC)
 - Smyth Drive (PVC)
 - Abdale St/Maplebay Ct/Beachgrove Ct)
 - Valencia Marketplace (PVC)
 - McBean Pkwy (Henry Mayo Hospital) (ACP)
 - Poe Pkwy (ACP)



Pipeline Improvements & Replacements

Total miles of pipe = ~920

- TDOMS Projects
 - Design/Construction:
 - Beneda Lane
 - Vasquez Canyon/Gaspe Street
 - Simay Lane
 - Via Princessa/Weyehauser
 - Newhall Avenue
 - Begonias Lane
 - Wiley Elementary (Powell St)



Operations CIP Overview

- Require limited engineering support
- Consist of several general categories, each with specific individual projects
- A portion of each budget is held for unforeseen failures and unexpected projects



Operations CIP Overview - PayGo

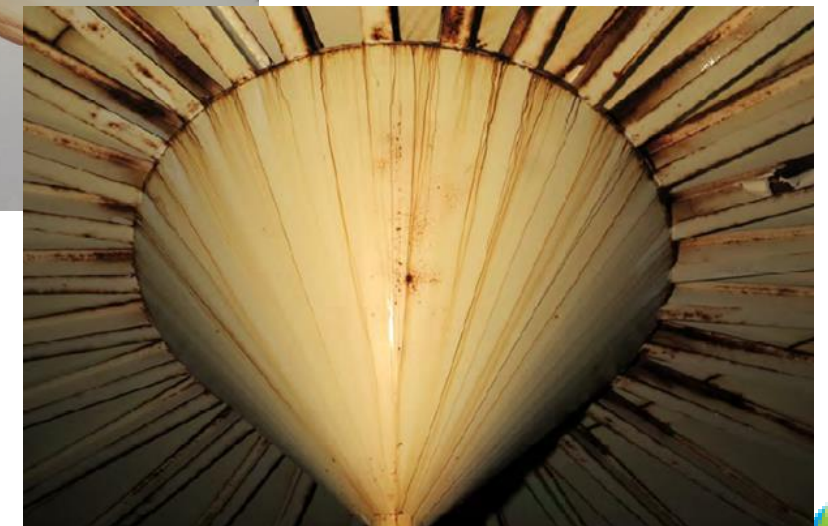
Capital Projects	FY 2023/24 Projected
Appurtenance Improvements & Replacements	\$ 410,000
Booster Station Improvements & Replacements	\$ 700,000
Disinfection System Improvements & Replacements	\$ 1,100,000
Meter & Meter Infrastructure Improvements & Replacements	\$ 2,775,000
Pipelines & Pipeline Improvements	\$ 2,165,000
Storage Tank Improvements & Replacements	\$ 1,500,000
Technology Improvements & Replacements	\$ 300,000
Treatment Plant Improvements & Replacements	\$ 4,890,000
Well Improvements & Replacements	\$ 2,800,000
Laboratory Improvements & Replacements	\$ 75,000
	\$ 16,715,000



Storage Tank Improvements & Replacements

Total Storage Tanks = 102*

- Storage Improvement Criteria
 - 3-5 year dive inspections
- Key Projects
 - Copper Hill 1
 - North Oaks 1
 - North Oaks 4

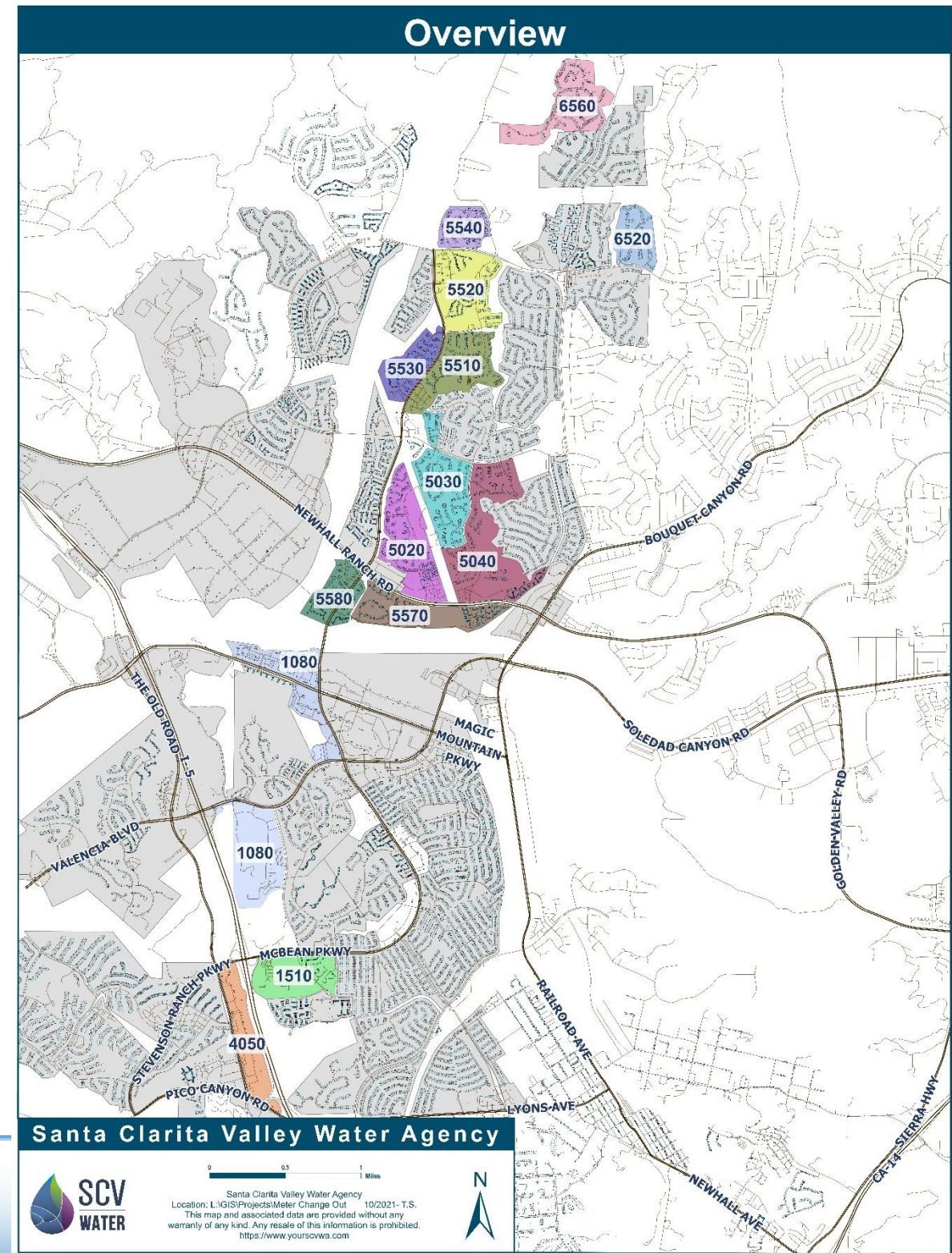


*Includes RW, concrete reservoir and plant water tank



Meter Improvements & Replacements

- Meter Replacement Criteria
 - Age
 - Volume
 - Read Style
- AMI Target Areas
 - Grant proposed area - 7,500
 - General replacements - 3,700



Well Improvements & Replacements

Total Wells = 55*

- Well Rehabilitation Criteria
 - Specific capacity
 - Production
 - Age
 - PFAS Treatment
- Key Projects
 - Saugus 1
 - Saugus 2
 - Guida



*includes inactive, standby, non-potable

Equipment Replacements

- **Equipment Replacement Criteria**
 - Age, mileage, maintenance costs and regulatory requirements
- **Equipment Totals**
 - 115 Vehicles
 - 31 \geq 10 years old
 - 10 \geq 110,000 miles
 - 10 Mobile Generators
 - Age range 2000 - 2012
 - Heavy Equipment
 - 6 Backhoes - 1996 - 2019
 - 6 Dump Trucks - 2000 - 2018



Administration, Technology & Fleet - PayGo

- FY 2023/24 Budget - \$7,160,000
 - General Office/Facilities Replacements - \$950,000
 - 6 Buildings & 4 Warehouses
 - HVAC Repairs/Replacements, Fencing/Gates, Plumbing, Electrical, Lobby Improvements, Yard Improvements
 - Chiller Replacement – Rio Vista - \$600,000
 - Exceeded useful life
 - Operating on one compressor
 - Lead times for replacement 30 weeks
 - Technology Improvements and Replacements - \$3,710,000
 - Asset Management Pilot Program
 - Microwave Upgrade
 - Unified IP Security Camera System
 - Data Warehouse
 - Meter Data Management System
 - Equipment and Vehicle Replacements - \$1,900,000

Water Resources - PayGo

Capital Projects	FY 2023/24 Projected
BVRRB Storage & Recovery Program	\$ 3,250,000
Invasive Species Management	\$ 265,000
Resiliency Water Master Plan	\$ 1,175,000
Devil's Den Property Solar Project	\$ 100,000
Recycled Water Program – Vista Cyn & West Ranch Customer Conversions	\$ 850,000
Yuba Accord Water	\$ 1,54,340
Battery Energy Storage Project - SGIP	\$ 3,250,000
Bridgeport Pocket Park	\$ 25,000
Solar Array Improvements	\$ 150,000
Update Water Conservation & Education Garden	\$ 2,000,000
Water Demand Factor Software Development (Water Demand Factor & WaterSMART)	\$ 150,000
Rosedale Phase 2 Wells	\$ 1,061,800
Deep Monitoring Wells (GSA)	\$ 25,000
Total Water Resources Pay-go CIP	\$ 14,756,140

Bond/Loan CIP Fund Summary

	Approved Budget FY 2022/23	Projection FY 2022/23	Proposed Budget FY 2023/24	Proposed Budget FY 2024/25
Fund Balance, Beginning	\$ 18,071,470	\$ 18,071,470	\$ (726,530)	\$ 29,257,720
REVENUES				
Bond/Loan Proceeds*	\$ 75,000,000	\$ -	\$ 75,000,000	\$ 63,206,722
Investment Revenues	\$ 375,000	\$ 375,000	\$ 1,706,250	\$ 390,000
Total Revenues	\$ 75,375,000	\$ 375,000	\$ 76,706,250	\$ 63,596,722
EXPENDITURES				
Capital Projects	\$ (41,981,000)	\$ (19,173,000)	\$ (46,722,000)	\$ (92,779,000)
Total Expenditures	\$ (41,981,000)	\$ (19,173,000)	\$ (46,722,000)	\$ (92,779,000)
Available Fund Balance, Ending	\$ 51,465,470	\$ (726,530)	\$ 29,257,720	\$ 75,442

*Portion of FY 2024/25 is expected to be funded by the WIFIA loan

Bond/Loan Funded CIP Overview

Engineering & Water Resources Capital Projects	FY 2023/24 Projected	FY 2024/25 Projected
ESFP Sludge Collection System (C)	\$ 8,510,000	\$ 0
Santa Clara & Honby Wells (C)	\$ 4,664,000	\$ 0
Well 201 VOC Groundwater Treatment Improvements (C)	\$ 5,615,000	\$ 2,838,000
Well 205 Perchlorate & VOC Groundwater Treatment Improvements (C)	\$ 2,650,000	\$ 8,750,000
Recycled Water Fill Station (C)	\$ 225,000	\$ 1,400,000
Recycled Water Program Phase II, 2C - South End Backbone (C)	\$ 2,000,000	\$ 7,500,000
Recycled Water Program Phase II, 2C - Vista Canyon Backbone (C)	\$ 200,000	
Recycled Water Pump Station Upgrades (C)	\$ 450,000	\$ 1,200,000
Backcountry (fka Magic Mountain) Pump Station (C)	\$ 760,000	\$ 9,340,000
Backcountry (fka Magic Mountain) Reservoir (C)	\$ 2,660,000	\$ 23,260,000
Castaic Conduit (C)	\$ 370,000	\$ 8,080,000
Sand Canyon Reservoir Expansion	\$ 810,000	\$ 1,050,000
E Wells (E-14, E-15, E-16, E-17) Groundwater Treatment Improvements	\$ 1,650,000	\$ 985,000



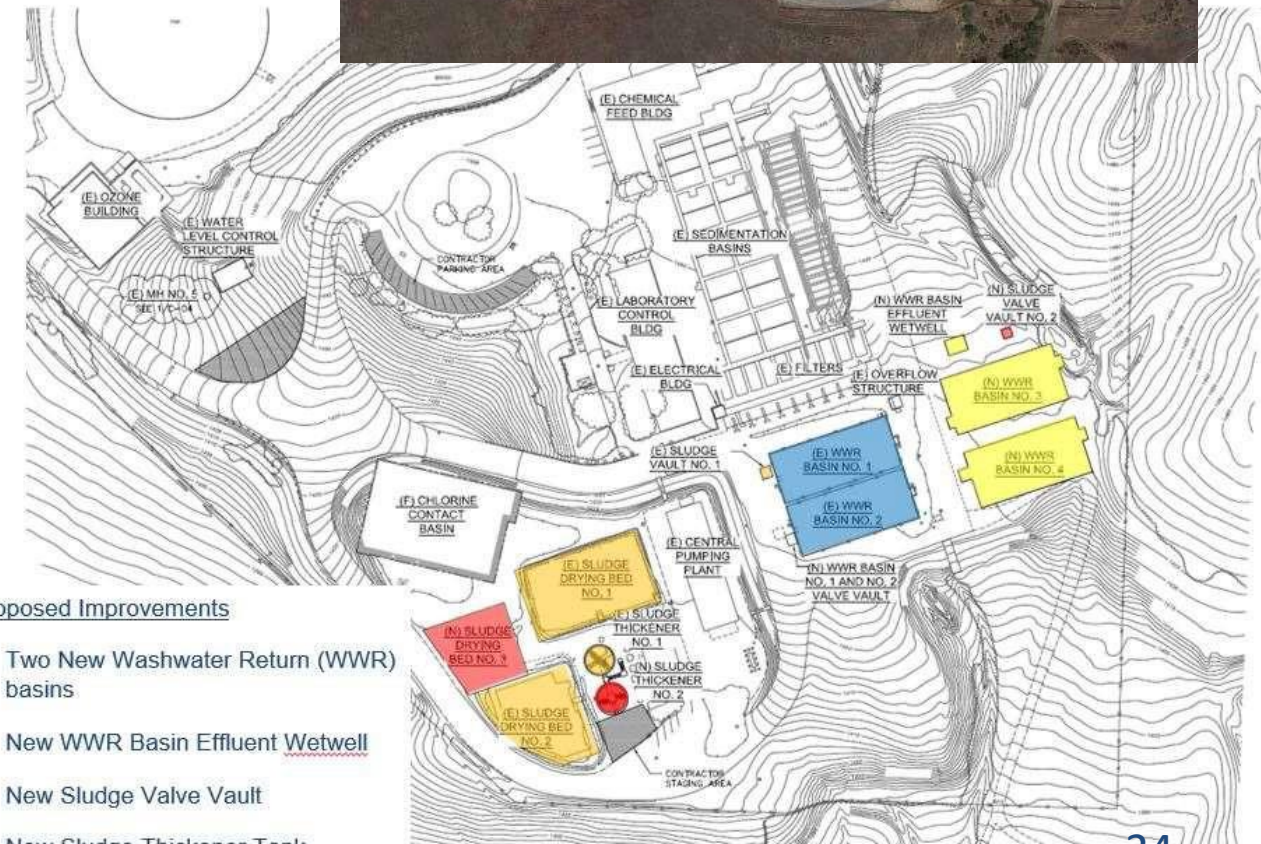
Bond/Loan Funded CIP Overview (cont'd)

Engineering & Water Resources Capital Projects	FY 2023/24 Projected	FY 2024/25 Projected
LARC Pipeline	\$ 1,500,000	\$ 250,000
Additional Wells (T7, U4, U6, S1, and S2)	\$ 7,200,000	\$ 10,000,000
S Wells (S6, S7, and S8)	\$ 2,000,000	\$ 11,200,000
Pipeline & Pipeline Improvements	\$ 1,322,000	\$ 0
Honby Parallel	\$ 225,000	\$ 475,000
Newhall (fka Saugus) Wells (N11, N12, N13) Groundwater Treatment	\$ 255,000	\$ 550,000
Well Site Improvements	\$ 500,000	\$ 1,000,000
Additional Groundwater Treatment Improvements	\$ 1,750,000	\$ 2,950,000
New Water Banking	\$ 500,000	\$ 750,000
Sites	\$ 800,000	\$ 900,000
Total Misc Projects	\$ 106,000	\$ 301,000
Total Bond/Loan Funded CIP	\$ 46,722,000	\$ 92,779,000

FY 2024/25 - \$29,647,720 in remaining Bond Proceeds, \$63,131,280 from WIFIA Loan

Earl Schmidt Filtration Plant (ESFP) Sludge Collection System

- Construction
 - Sludge Collection System
- Project Details
 - Upgrade of ESFP wash water return and sludge collection system.
 - 2 wash water basins
 - 1 sludge thickener tank
 - 1 sludge drying bed



Proposed Improvements

1. Two New Washwater Return (WWR) basins
2. New WWR Basin Effluent Wetwell
3. New Sludge Valve Vault
4. New Sludge Thickener Tank
5. New Sludge Drying Bed

Groundwater Treatment Improvements

- Construction
 - Santa Clara/Honby Wells, Well 201, Well 205, T7, U4, U6 Wells and VOC Treatment for Saugus 1 and 2 Wells
- Planning and Design
 - S Wells, E Wells, Newhall Wells (N11, N12, N13), North Oaks Wells, Sierra Well, Clark Well, Well 207, Well W9, Well W10, and Well D
- Project Details
 - Construct treatment facilities for various Wells.
 - Santa Clara/Honby restore production up to 3,875 AFY
 - Well 201 production up to 3,225 AFY
 - Well 205 production up to 4,350 AFY
 - E Wells production up to 7,700 AFY
 - Wells T7*,U4*,U6* restore production up to 5,500* AFY
 - **Total production of approximately 24,650 AFY**

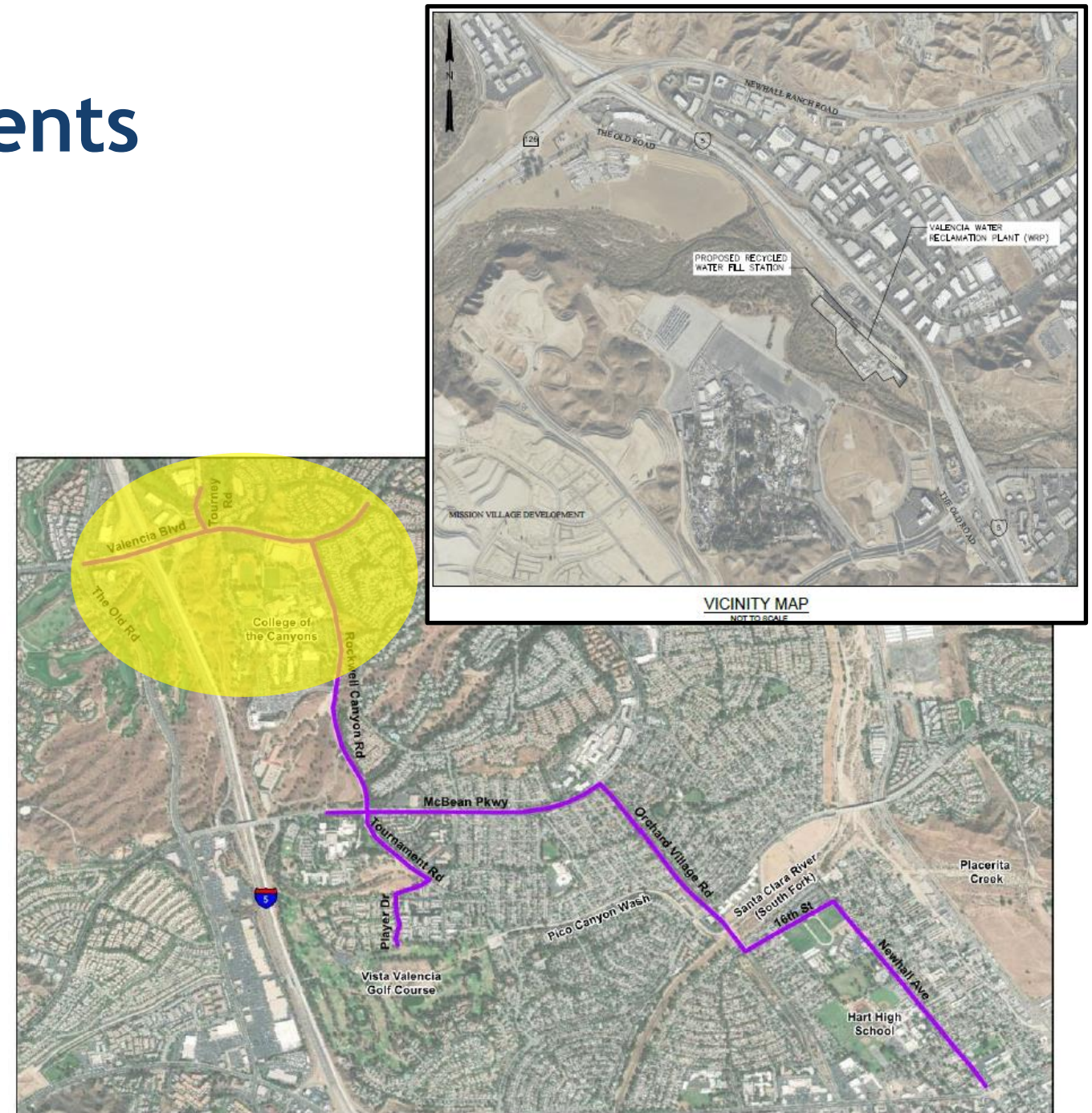


Santa Clara & Honby Wells PFAS Treatment



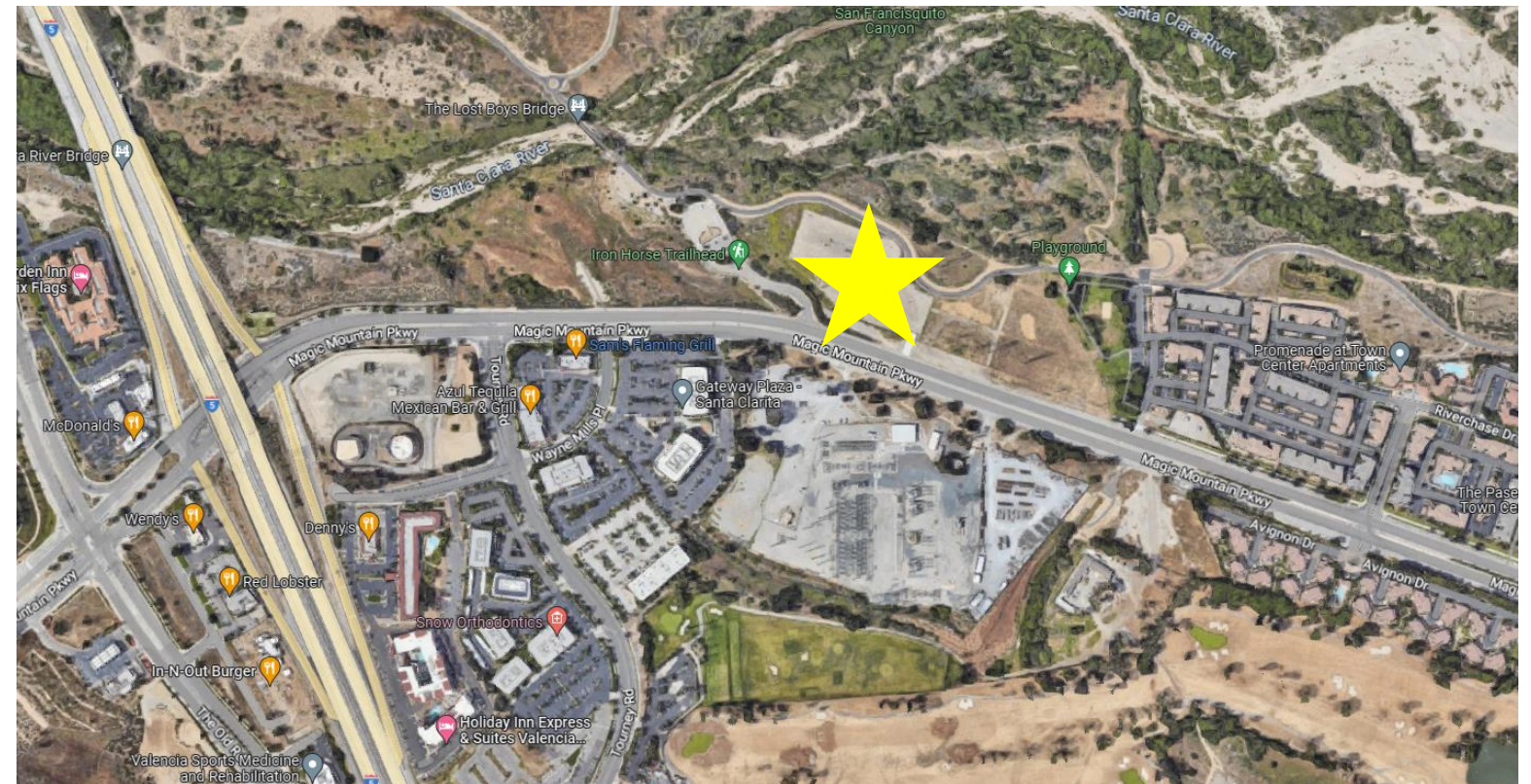
Recycled Water Improvements

- Design and Construction
 - Construct a new recycled water fill station at the Valencia Water Reclamation Plant.
 - Upgrade the existing recycled water electrical components at the Valencia Water Reclamation Plant
 - Expand the recycled water system to the College of the Canyons.
- Project Details
 - Construct a recycled water fill station with two overhead pipe stands.
 - Install recycled water pipelines from Valencia Boulevard and The Old Road Intersection to the College of the Canyons (highlighted in yellow).



Backcountry (fka Magic Mountain) Pump Station

- Design and Construction
 - Pump Station
- Project Details
 - Construction of a 24,000 gpm Pump Station



Backcountry (fka Magic Mountain) Reservoir

- Design and Construction
 - 42” Steel Pipeline Installation
 - 5.7 MG Regional Reservoir
- Project Details
 - Construction of a 7.9 MG Regional Reservoir



Castaic Conduit

- Design and Construction
 - Construct approximately 7,958 feet of 54-inch diameter Castaic Conduit Pipeline along Newhall Ranch Road, Avenue Tibbitts, Avenue Mentry, Avenue Rockefeller, Avenue Scott, and McBean Parkway.



Castaic Conduit Pipeline Alignment



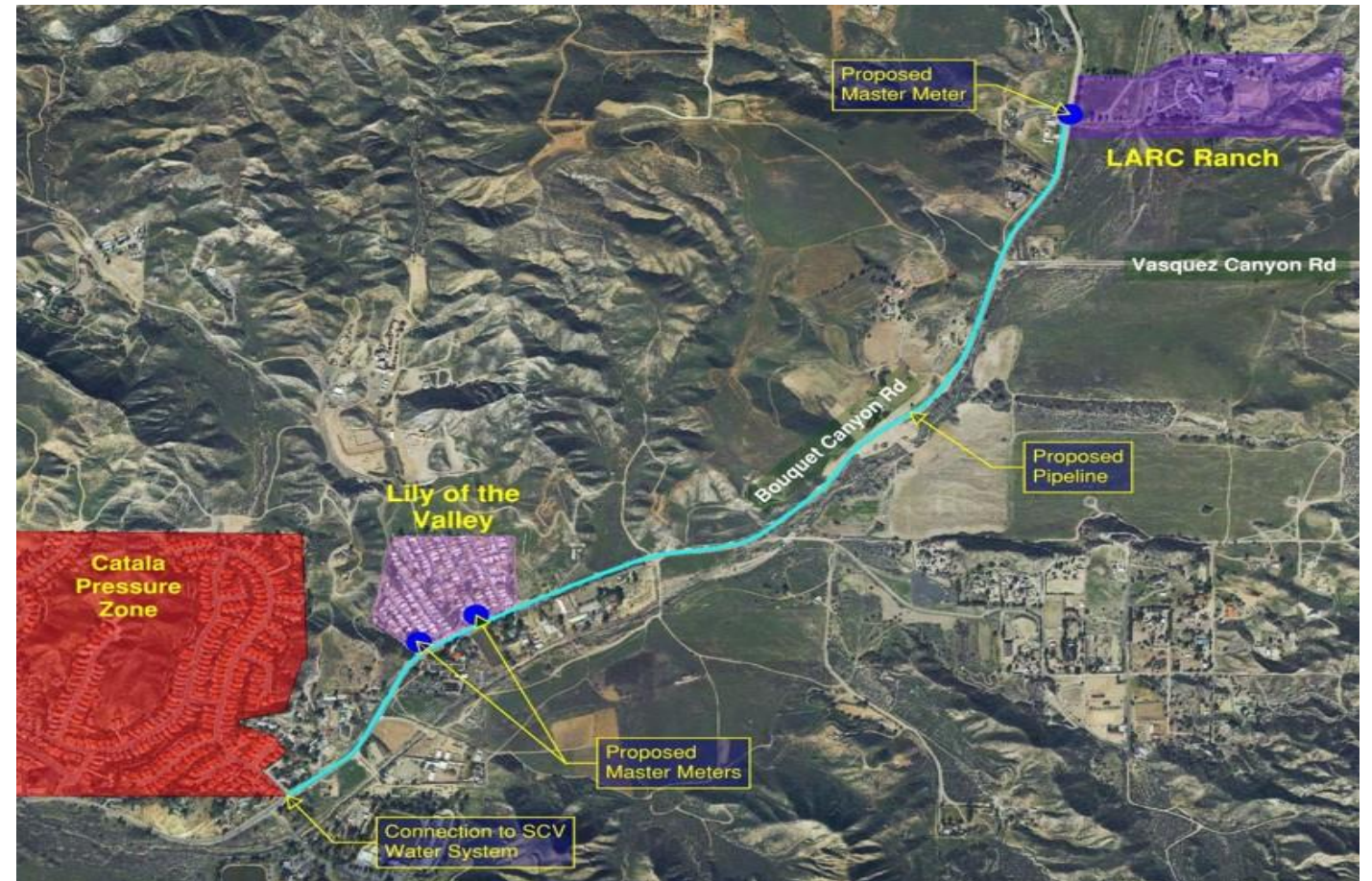
Sand Canyon Reservoir Expansion

- Planning and Design
 - Existing Sand Canyon Reservoir storage capacity is 7 million gallons.
 - Construct new reservoir to increase water storage at the Sand Canyon Reservoir site.
 - New reservoir storage capacity is being identified as part of the planning work that started in FY 2022/23.



Los Angeles Residential Community (LARC) Pipeline Project

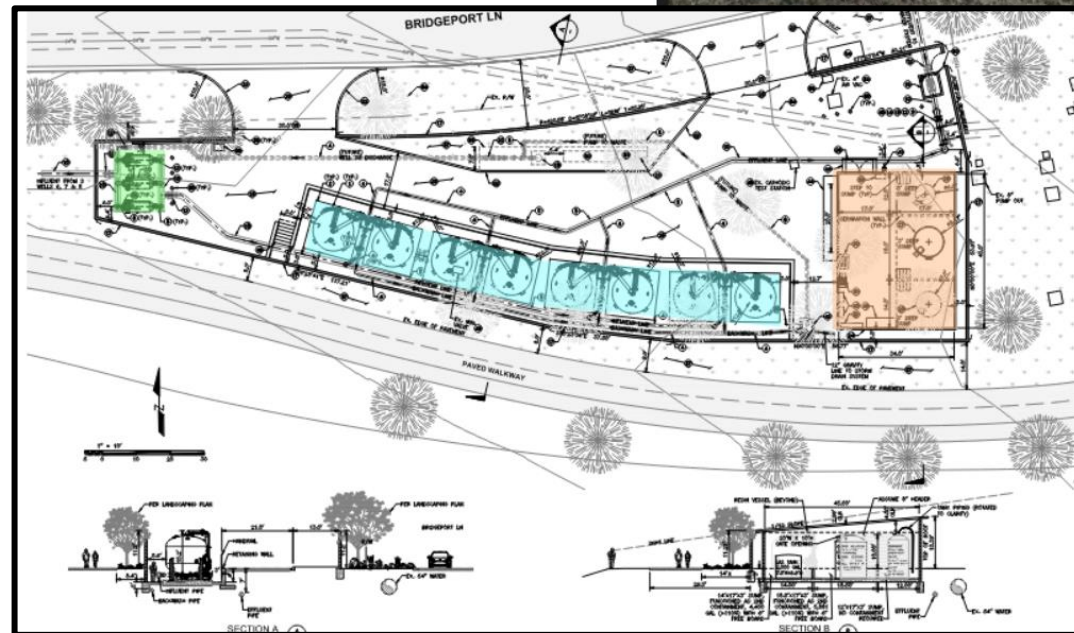
- Funding
 - \$3.9M Grant for 8-inch pipeline
 - \$1.5M FY23 to upsize to 12-inch pipeline for existing residents
- Construction
 - 12-inch ductile iron pipeline extends 9,600 feet to LARC
 - Master Meters will serve LARC & Lily of the Valley
 - Onsite Pump Station at LARC



S WELLS PFAS TREATMENT AND DISINFECTION FACILITY

Construction

- Groundwater Treatment for existing S Wells 6, 7 and 8
- New Disinfection Building
- Off-site pipeline improvements and landscaping
- Location for future S9 Well



Grant Funding

- \$5 m from the Bureau of Reclamation's DRP Funds

