

**CAPITAL IMPROVEMENT PLAN (CIP) PROJECTS
QUARTERLY PROGRESS REPORT
FIRST AND SECOND QUARTERS – FISCAL YEAR 2024-25**

Purpose and Scope of Report

This report summarizes the activities and milestones involved with the delivery of the Authority's Capital Improvements Program (CIP) during the first and second quarters of Fiscal Year (FY) 2025, and also provides an overview of the CIP, highlighting significant projects, CIP process improvements, accomplishments, and a discussion of significant areas driving change to CIP project delivery.

Capital Improvement Program Overview

The Authority's CIP is a compilation of individual capital improvement projects, funded by an annually adopted budget and available local, state and federal grants. Summary pages of Major Projects and projects of interest are included below.

The Authority's assets include approximately 394 miles of transmission and distribution pipelines, 2 dams, 2 reservoirs, 2 treatment plants, 14 production wells, 19 monitoring wells, 21 pump stations, 35 potable and non-potable water tanks, 93 vehicles and equipment, and 3 buildings.

CIP Projects are identified through several guiding documents (Master Plans, Feasibility Studies, Regulatory Compliance, Board direction and Strategic Plan, etc), which inform the 5-year CIP outlook effort developed each budget cycle.

Executing the CIP portfolio, which includes refurbishing or rehabilitating existing structures as well as constructing new facilities, is complex due to the asset types, environmental consideration, and highly specialized work required for some of the projects. The CIP directly supports the operations of most of the Authority's Departments across a range of functions, including safety, environmental, distribution, recreation facilities and utilities projects. The table below identifies projects by asset type.

Asset Type	Number of Projects
Reservoirs	5
Dams	2
Wells	1
Treatment Plant	7
Pipelines, Services and Meters	5
Storage Tanks	4
Buildings (Improvements)	2
Other	2
TOTAL	28

The Other Asset Type category above relates to projects that do not correlate to a specific asset type. These projects are:

- Laboratory Information Management System
- Authority-wide Electronic Content Management System

As it pertains to the Recycled Water Analysis, recommendations provided or to be provided on those plans could tie to multiple assets or none at all if implementation of specific projects evaluated in those plans does not proceed. As it pertains to the other CIP Projects in the bullet points above, those projects are software upgrades not tied to a specific asset.

CIP Project Schedules

The schedule for each CIP Project is included as Attachment 1. Since the last CIP Update in May 2024, several projects have been removed from the CIP schedule because they have either been completed or have been defunded for FY 2024-25. Several new projects have also been added to the schedule because they received funding through the FY 2024-25 Budget. The section below titled “Notable CIP Project Updates Since Last Update in May 2024” provides more detailed information on the removals and additions of projects from the CIP Schedule, in addition to updates to noteworthy projects.

The table below shows the project phase for each funded and active CIP project.

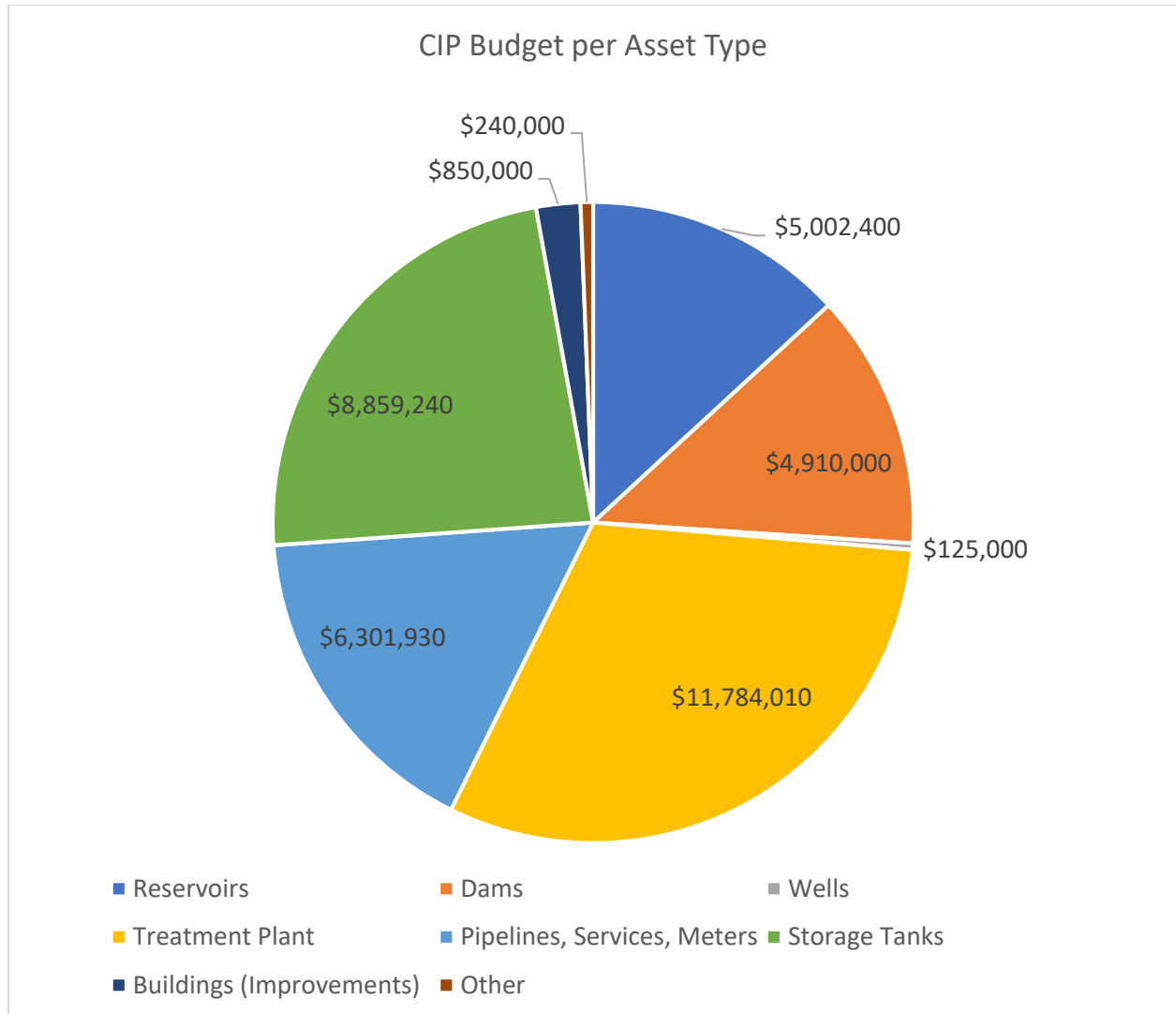
Project Phase	Number of Projects
Construction	5
Design/Environmental/Permitting	14
Planning/Study	5
Street Improvements	2
Software Upgrades	2
TOTAL	28

From the table above, all Street Improvement CIP Projects are projects from land use agencies within the Authority’s service area, which require relocation of water Authority facilities such as pipelines. Project schedules are driven by the land use agencies and not within the control of the Authority.

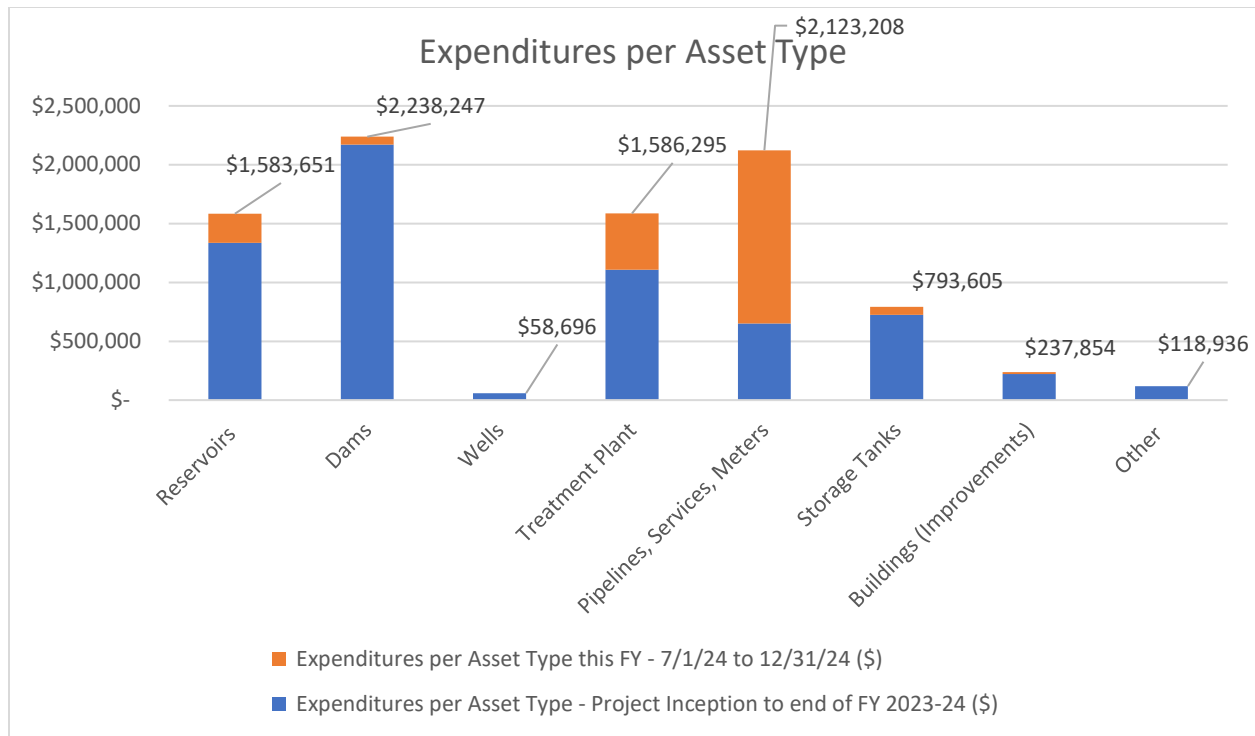
Locations of CIP Projects can be found on the Authority’s website at the following address: <https://www.sweetwater.org/148/Current-Projects>

CIP Budget and Expenditures per Asset Type

The Budget for each CIP Project is allocated by the Board as part of the annual budgeting process. The pie chart below shows allocated budget per asset type.



CIP Project expenditures per asset type can be seen in the bar graph below, where the lower part of the bars in the graph represent expenditures from project inception to the end of FY 2023-24, and the upper part of the bars in the graph represent expenditures for FY 2024-25. The combination of the lower and upper parts of the bars in the graph represent total expenditures per asset type.



Data from the pie chart and expenditures bar graph above is consolidated in the table below. The fourth column from the left, on the table below, is inclusive of expenditures shown on the fifth column from the right.

Asset Type	Budget per Asset Type (\$)	Budget Balance	Expenditures per Asset Type - Project Inception to 12/31/24 (\$)	Expenditures per Asset Type this FY - 7/1/24 to 12/31/24 (\$)
Reservoirs	\$5,002,400	\$3,418,749	\$1,583,651	\$246,043
Dams	\$4,910,000	\$2,671,753	\$2,238,247	\$67,992
Wells	\$125,000	\$66,304	\$58,696	\$-
Treatment Plant	\$11,784,010	\$10,197,715	\$1,586,295	\$478,338
Pipelines, Services, Meters	\$6,301,930	\$4,178,722	\$2,123,208	\$1,472,986
Storage Tanks	\$8,859,240	\$8,065,635	\$793,605	\$68,330
Buildings (Improvements)	\$850,000	\$612,146	\$237,854	\$15,965
Other^	\$240,000	\$121,064	\$118,936	\$-
TOTAL	\$38,072,580*	\$29,332,088	\$8,740,492	\$2,349,654

*Completed projects and ongoing programs where budgeted amounts do not carry over to the next fiscal year, like the Valve Replacement Program, are not included in the budget total. Vehicle Replacement Program also not included.

^Projects under Other Asset category above do not lead to a construction effort.

Relationship of CIP Projects to Strategic Plan Work Plan

The table below correlates CIP Projects to a specific Strategic Plan Work Plan Goal, Objective, and Task. All funded CIP Projects are listed in the Strategic Plan Work Plan for FY 2024-25. The Strategic Plan goals adopted by the Board are:

- Goal No. 1 – Water Quality (WQ): Provide high water quality water that meets regulatory requirements.
- Goal No. 2 – System and Water Supply Reliability (SR): Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation, and development of local water resources.
- Goal No. 3 – Financial Viability (FV): Ensure long-term financial viability of the agency through best practices, operational efficiency, and maximizing assets.
- Goal No. 4 – Customer Service, Citizen Engagement and Community Relations (CS): Provide high-quality customer service based on customer feedback and serve the community through education, outreach, and partnerships.
- Goal No. 5 – Workforce Development and Constructive Labor Relations (WD): Attract, retain and develop a highly skilled workforce; equip employees to effectively and safely perform their jobs and prepare for career advancement; promote constructive labor relations.
- Goal No. 6 – Administrative Effectiveness (AE) – Provide efficient and effective administrative systems and procedures in accordance with best management practices.
- Goal No. 7 – Environmental Stewardship (ES) – Provide core services while maintaining a balanced approach to human and environmental needs.

As an example, a Strategic Plan Work Plan designation such as ES3-2 stands for Goal No. 7 – Environmental Stewardship, Objective No. 3, Task 2.

For reference, the FY 2024-25 Strategic Plan Work Plan can be found on the Authority's website at the following location:

<https://www.sweetwater.org/DocumentCenter/View/3824/Strategic-Plan-FY-2024-25-Work-Plan-PDF>

CIP Projects that are included in the FY 2024-25 Budget but have been completed are not included in the table below.

Strategic Plan Work Plan Reference	CIP Project
FV5-1	Clearwell Effluent Meter Replacement
SR1-2	FY 2022-23 Pipeline Replacement Program
ES3-1	Sweetwater Wetlands Habitat Recovery
WQ7-1	National City Wells Iron and Manganese Removal
SR1-1	Central-Wheeler Tank
WQ6-2	Aeration/Destratification System for Sweetwater Reservoir
SR2-3, SR2-4	Tank Rehabilitation Program
n/a	Laboratory Instrument Replacement
SR2-15	Raw Water Pump Variable Frequency Drive
n/a	Sodium Hydroxide and Sodium Hypochlorite Tank Replacement
WQ7-2	Bonita Valley Reservoir Residual Control System
SR2-9	Fire Tank Replacement at Loveland Reservoir
SR2-7	Bonita Valley Reservoir Control Building Roof Replacement
SR5-1 and SR5-3	Stairway and Valve Replacement at Loveland Dam
CS8-3	Loveland Reservoir Trails Master Plan
SR2-2	Deep Well Anode Bed for 30-Inch Second Avenue Pipeline Rectifier
SR1-3	FY 2024-25 Pipeline Replacement Program
WQ5-1	Desal Programmable Logic Controller Replacement
WQ7-3	Sodium Hypochlorite Chlorination System
WQ6-1	Sweetwater Reservoir Capacity Restoration
SR2-6	Facilities Master Plan
SR5-2	Sweetwater Dam and South Dike Improvements
SR11-1 and SR11-2	Programmatic Permitting of Property O&M Plan (NCCP/HCP)
CS5-1	Aesthetic Enhancements to Various Well Facilities
SR6-1	Street Improvement – Third Avenue Sidewalk Gap
SR6-1	Street Improvement - Alpine Avenue
WQ8-2	Laboratory Information Management System
AE3-1	Authority-wide Electronic Content Management System

Delivery of CIP Projects

Per the CIP Gantt Chart included in Attachment 1, staff anticipates completing CIP projects as follows:

Quarter	No. of Projects
FY25 – Q3	5
FY25 – Q4	17
FY26 – Q3	3
FY26 – Q4	1
FY27 – Q4	1
FY28 – Q4	1

Previous CIP Project Reporting

This current CIP Projects Progress Report and future quarterly progress reports in this format are intended to replace the format in which Quarterly Capital-Expense Reports were previously provided to the Board.

Notable CIP Project Updates Since Last Update in May 2024

Since the last CIP Update in May 2024, staff has the following notable CIP updates to report, including the completion of twelve CIP Projects:

Construction Phase Projects

1. *Cathodic Protection at Three Storage Tanks Project (Project No. 20214008)* – The project has been completed and has been removed from the Gantt Chart.
2. *San Miguel Road Pipeline (Project No. 20244011)* – The project has been completed and has been removed from the Gantt Chart.
3. *Clearwell Effluent Meter Replacement at Perdue (Project No. 20224011)* – Replacement of the meter was completed in December 2024 and the new production meter at Perdue is now active. Minor project items are pending with project completion expected in February 2025. See row 2 of Gantt Chart for project schedule.
4. *FY 2023 Pipeline Replacement Program (Project No. 20234003)* – Construction of pipelines in National City and Lincoln Acres is in progress and expected to be completed in Q3 of this fiscal year. See row 13 of Gantt Chart for project schedule.
5. *Naples Street Large Meter Improvements (Project No. 20204009)* – The project has been completed and has been removed from the Gantt Chart.

6. *Sweetwater Wetlands Recovery Project (Project No. 20168005)* – Removal of invasive species within Sweetwater Reservoir's Habitat Management Area was completed in December 2024. Project closeout for grant purposes is expected in February 2025. See row 31 of Gantt Chart.
7. *Hazardous Tree Removal Defensible Space at Perdue Project (Project No. 20248005)* – Selective removal of eucalyptus trees was completed in October 2024. Project has been completed and has been removed from the Gantt Chart.
8. *Fire Tank Replacement at Loveland Reservoir (Project No. 20224004)* – The Board awarded a construction contract in October 2024. A pre-construction meeting with the contractor was held in early January 2025. See row 34 of Gantt Chart for project schedule.
9. *National City Wells Iron and Manganese Removal System (Project No. 20218003)* – The Board awarded a construction contract in October 2024 to SCW Contracting. A groundbreaking ceremony is being planned for Q3 in FY 2025. See row 40 of Gantt Chart for project schedule.

Design/Environmental/Permitting Phase Projects

10. *Customer Water Bill Payment Kiosk (Project No. 20241005)* – The payment kiosk in the lobby of the Authority's Administration Building has been installed and it is operational. The payment kiosk planned outside of the building will now be funded through the General Fund. Because this project is no longer funded through the CIP Fund, it has been removed from the Gantt Chart.
11. *Central Wheeler Tank (Project No. 20014016)* – The project was advertised for construction in November 2024. Bids are due on January 17, 2025 and staff anticipates making a construction contract award recommendation to the Board in February 2025. See row 52 of Gantt Chart for project schedule.
12. *Aeration/Destratification System for Sweetwater Reservoir (Aeration System) (Project No. 20228002)* – At the August 26, 2024 Board meeting, the Board adopted Addendum No. 1 to the Environmental Impact Report (EIR) for the Perdue Water Treatment Plant, to add the proposed Aeration System to the EIR. Staff has submitted permit applications to the permitting agencies, to have the project permitted before advertising it for construction. See row 64 of Gantt Chart for project schedule.
13. *SDF Well Pump Control Valve Modification (Project No. 20248008)* – The project has been completed and has been removed from the Gantt Chart.

14. *Sodium Hydroxide and Sodium Hypochlorite Tank Replacement (Project No. 20258004)* – New CIP Project listed in Gantt Chart; project added to FY 2024-25 Budget. See row 93 of Gantt Chart for project schedule.
15. *Bonita Valley Reservoir Residual Control System (Project No. 20258005)* - New CIP Project listed in Gantt Chart; project added to FY 2024-25 Budget. See row 95 of Gantt Chart for project schedule.
16. *Pipeline on H Street, Claire Avenue to 750 feet east, in Chula Vista (Project No. 20244004)* – Project removed from Gantt Chart because it was defunded for FY 2025-25. Staff will propose to fund the project once pavement moratorium expires.
17. *Loveland Residence Roof Replacement & Photovoltaic Installation (Project No. 20194007)* – Project removed from Gantt Chart because it was defunded for FY 2024-25. Project is no longer cost effective based on new regulations from the California Public Utilities Commission.
18. *Stairway and Valve Replacement at Loveland Dam (Project No. 20214011)* – Staff is performing a constructability review of the Stairway Replacement design that was prepared by GEI Consultants, Inc. Design for the Valve Replacement is in progress. See row 99 of Gantt Chart for project schedule.
19. *Loveland Reservoir Trails Master Plan (Project No. 20254001)* – A grant agreement for the \$750,000 State grant has been executed and funding has been received. Staff is coordinating design details and environmental considerations for the project with on-call consultants. See row 109 of Gantt Chart for project schedule.
20. *Deep Well Anode Bed for a 30-inch Second Avenue Pipeline Rectifier (Project No. 20254002)* - New CIP Project listed in Gantt Chart; project added to FY 2024-25 Budget. Design has been completed and the project is anticipated to be advertised in early January 2025. See row 120 of Gantt Chart for project schedule.
21. *FY 2025 Pipeline Replacement Program (Project No. 20254004)* - New CIP Project listed in Gantt Chart; project added to FY 2024-25 Budget and design is near the 50% level of completion. See row 131 of Gantt Chart for project schedule.
22. *Desal Programmable Logic Controller Replacement (Project No. 20258001)* - New CIP Project listed in Gantt Chart; project added to FY 2024-25 Budget. See row 142 of Gantt Chart for project schedule.

Plan/Study Phase Projects

23. *Water Resources Master Plan (Project No. 20224000)* – The project has been completed and has been removed from the Gantt Chart.
24. *New SDF Well in National City (Project No. 20234001)* – The project has been completed and has been removed from the Gantt Chart.
25. *Lead and Copper Service Line Inventory (Project No. 20248002)* – The project has been completed and has been removed from the Gantt Chart.
26. *Automatic Metering Infrastructure Feasibility Study (Project No. 20241003)* - The project has been completed and has been removed from the Gantt Chart.
27. *Board Room Technology Upgrade (Project No. 20236002)* – The project has been completed and has been removed from the Gantt Chart.
28. *Sweetwater Reservoir Capacity Restoration (Project No. 20224003)* – The consultant for the project is finalizing a Project Description and updating sediment estimates within the revised project footprint in the area of the reservoir's outlet tower, to feed that information into the Preliminary Environmental Impact Assessment. See row 156 of Gantt Chart for project schedule.
29. *Sweetwater Dam and South Dike Improvements (Project No. 20114012)* – Staff provided a status update to the Board on this project during the September 25, 2024 Board meeting. Based on the Division of Safety of Dams' (DSOD) review of reports submitted to date for the Comprehensive Assessment of Sweetwater Dam, DSOD provided a response letter in August 2024 requesting additional analyses for the dam and an updated Probable Maximum Flood (PMF) Analysis to support one of the alternatives to be selected for addressing deficiencies with the South Spillway. The Board approved a new task order for DSOD for an amount not-to-exceed \$89,582. The new scope of work for GEI, to be incorporated into the Comprehensive Assessment, consists of the following:
- Analysis for risk of failure of the North Spillway concrete apron
 - Stability analysis of the rockfill ballast above the North Spillway
 - Hydraulic analysis of the North and Center Spillways, including an updated PMF analysis
- For more detail information on the update to this project, please refer to Item 8.1 of the Board agenda from September 25, 2024. See row 161 of Gantt Chart for project schedule.
30. *GIS Assessment, Plan, and Expansion of Portal (Project No. 20226000)* – The project has been completed and has been removed from the Gantt Chart.

31. *City of San Diego Second Pipeline Interconnection Replacement (Project No. 20224001)* – Project removed from Gantt Chart because it was defunded for FY 2024-25. Staff will propose to fund the project once it is ready to proceed. The City of San Diego controls the schedule on this project.

Street Improvements

32. *Paradise Creek Water Quality Enhancements Phase II (Project No. 20214018)* – Water main relocation in National City to accommodate National City stormwater improvements has been completed. The project has been removed from the Gantt Chart.

Software Projects

33. *Customer Service Information System Replacement (Project No. 20241006)* – Project removed from Gantt Chart because it was defunded for FY 2024-25.

Additional CIP Project updates and schedules for each CIP Project can be viewed on the Authority's website at the following location:

<https://www.sweetwater.org/148/Current-Projects>

In addition, the website above includes project update sheets for several CIP Projects. An example is included as Attachment 2.

Projects funded through the General Fund

1. *Watershed Model:* At its October 9, 2024 meeting, the Board approved a contract with River Focus Water Resource Consultants for the development of Hydrologic and Hydraulic Models (Watershed Model) of the Sweetwater River Watershed. The project has initiated and it is planned for completion by June 30, 2025.
2. *Seismic Stability Study for Sweetwater Reservoir Outlet Tower:* A Request for Proposals for consultant selection was advertised in December 2024. Proposals are due on January 16, 2025. The Study is planned to be completed by June 30, 2025.
3. *Destruction of Well SDF-2:* At its December 11, 2024 meeting, the Board awarded a construction contract for the destruction of San Diego Formation Well No. 2 to Layne Christensen Company, for a not-to-exceed amount of \$219,565. The construction contract is in the process for execution. The contractor has 45 calendar days to complete the project once a Notice to Proceed is provided after contract execution.
4. *Recycled Water Analysis:* In conjunction with Otay Water District (Otay), Carollo Engineers was selected as a consultant. The project received a \$350,000 grant

from the State Water Resources Control Board. Per Agreement with Otay, project costs will be shared equally. The consultant for the project had a change in Project Manager, which has caused project delays. Project completion is still planned for Q4 of FY 2024-25. This project was previously funded through the CIP Fund in FY 2023-24.

5. *Clearwell Assessment Study*: During the Perdue Treatment Plant shutdown period in December 2024, to install the new production meter for the treatment plant, an inspection of the inside of the Perdue Clearwell was conducted by Ardurra, one of the Authority's on-call consultants. The Study is planned to be completed by June 30, 2025.
6. *Urban Runoff Diversion System Master Plan*: At its December 11, 2024 meeting, the Board approved a contract with CWE for the development of the URDS Master Plan. The contract has been executed and a project kick-off meeting is planned for mid-January, with anticipated project completion by June 30, 2025.

Programs in Support of Operational Activities

The Authority manages several programs that support the Authority's operational activities. Some of these programs have been funded through the CIP, while others have been funded through the General Fund. These programs are:

- Pipeline Replacement and Master Plan Programs
- No-Discharge Flushing
- Valve Replacements

The No-Discharge Flushing Program is funded through the General Fund, while the other programs above are managed through the CIP Fund.

The sections below provide information on the programs listed above that support the Authority's operations. Each section below about each program contains information about budget and expenditures.

Pipeline Replacement Program

The Pipeline Replacement Program consists of replacing pipelines that are near the end of their service life and have a history of leaks. The Program also involves installing new pipelines to provide service redundancy and mitigate the risk of customer outages or loss of pressure due to pipeline failures or shutdowns.

Through the last update to the Water Distribution System Master Plan (WDSMP), completed in December 2021, a likelihood of failure and consequence of failure analysis was performed to develop a list that prioritizes which pipelines should be replaced first, and provided recommendations for new pipelines based on a hydraulic model analysis. The WDSMP also provided recommendations for annual investment levels, by comparing pipe break rates from Authority pipes with pipe break rates in San Diego County and with the national average break rate. In order to keep levels of service on par with San Diego County averages, the Board opted to select an investment level as shown below. The table below, copied from the WDSMP, refers to "Master Plan Pipeline Improvements" to those pipes that would be new to provide service redundancy and mitigate the risk of customer outages or loss of pressure due to pipeline failures or shutdowns.

Investment Type	FY21/22 ¹	FY22/23	FY23/24	FY24/25	FY25/26	FY26/27 ³	FY27/28 ³	FY28/29 ³	FY29/30 ³	FY30/31 ³	Total
Pipeline Condition Improvements ¹	\$1,429,000	\$2,657,000	\$3,947,000	\$4,065,000	\$4,187,000	\$4,579,000	\$4,579,000	\$4,579,000	\$4,579,000	\$4,579,000	\$39,180,000
Master Plan Pipeline Improvements ¹	\$2,620,000	\$936,000	\$964,000	\$993,000	\$1,023,000	\$1,119,000	\$1,119,000	\$1,119,000	\$1,119,000	\$1,119,000	\$12,131,000

In December 2023, the Board awarded a construction contract to Cass Arrieta for the Pipeline Replacement Program, for approximately 4,153 linear feet of pipeline replacements in National City and Lincoln Acres, varying in sizes from 8- to 20-inch PVC. This project is in construction with anticipated completion in February 2025. For FY 2024-25, the pipelines budgeted for replacement were at the top of the remaining pipes in the priority listing, and were grouped together to closely match the investment levels desired by the Board. These pipelines to be replaced are in design, and consist of replacing approximately 1,766 linear feet of 8-inch asbestos cement pipelines in Chula Vista, National City and Bonita with PVC pipelines of the same diameter.

As part of leaks and repairs in the distribution system as they are identified, and as part of development driven projects, approximately 1.8 miles of pipeline have been installed or replaced, in addition to pipelines that were awarded for construction to Cass Arrieta as part of the Pipeline Replacement Program.

Budget for pipelines in construction (Project No. 20234003): \$3,825,800
Expenditures: \$2,123,118

Budget for FY 2024-25 (Project No. 20254004): \$1,900,000
Expenditures: \$0

The budget and expenditures above are only for the Pipeline Replacement Program, and not inclusive of development driven projects or sections of water main replaced due to leak repairs.

For the next five fiscal years, based on the recommendations and pipe priority listing from the WDSMP, staff anticipates needing to install the amounts of water main pipeline listed in the table blow. However, given budget constraints established by the 2023 Rate Study and new water rates adopted, a lesser amount of pipelines was approved though the FY 2024-25 Budget.

	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	Approximate Pipeline Amount in Linear Feet				
Pipelines to Replace	6,300	7,280	5,520	5,755	3,725
New Pipelines*	2,175	1,900	3,150	3,850	3,150

*Referred to as "Master Plan Pipeline Improvements" in previous table copied from WDSMP.

No-Discharge Flushing Program

Over time, natural sediments can accumulate in water mains. While these sediments are completely safe, they may affect water color, taste and odor. Water main flushing is the process of cleaning the interior of water mains and removing any accumulated sediment by sending a rapid flow of water through the mains.

Traditional flushing methods “flush out” sediments by releasing water from fire hydrants into the streets and storm drains. While the Authority still performs quarterly traditional flushing through hydrants in certain areas, the majority of the distribution system is now flushed through water-efficient technology through a method called No-Discharge Flushing, which helps to significantly reduce water waste.

A No-Discharge Flushing Pilot Program was conducted in 2021 and the Authority’s Board decided to implement it long-term by authorizing the purchase of its own equipment to conduct the program. On February 13, 2023, the Authority began the No-Discharge Flushing Program with the purchased equipment. Since that date and until December 31, 2024, the Authority has flushed 247.6 miles out of 353.2 miles of water main in National City, Lincoln Acres, and Chula Vista that have a diameter size of 12-inches or smaller. Based on the first and second quarters of Fiscal Year (FY) 2024-25 alone, 47.2 miles of pipe were flushed.

The table below shows costs incurred to date and for the first and second quarters of FY 2024-25:

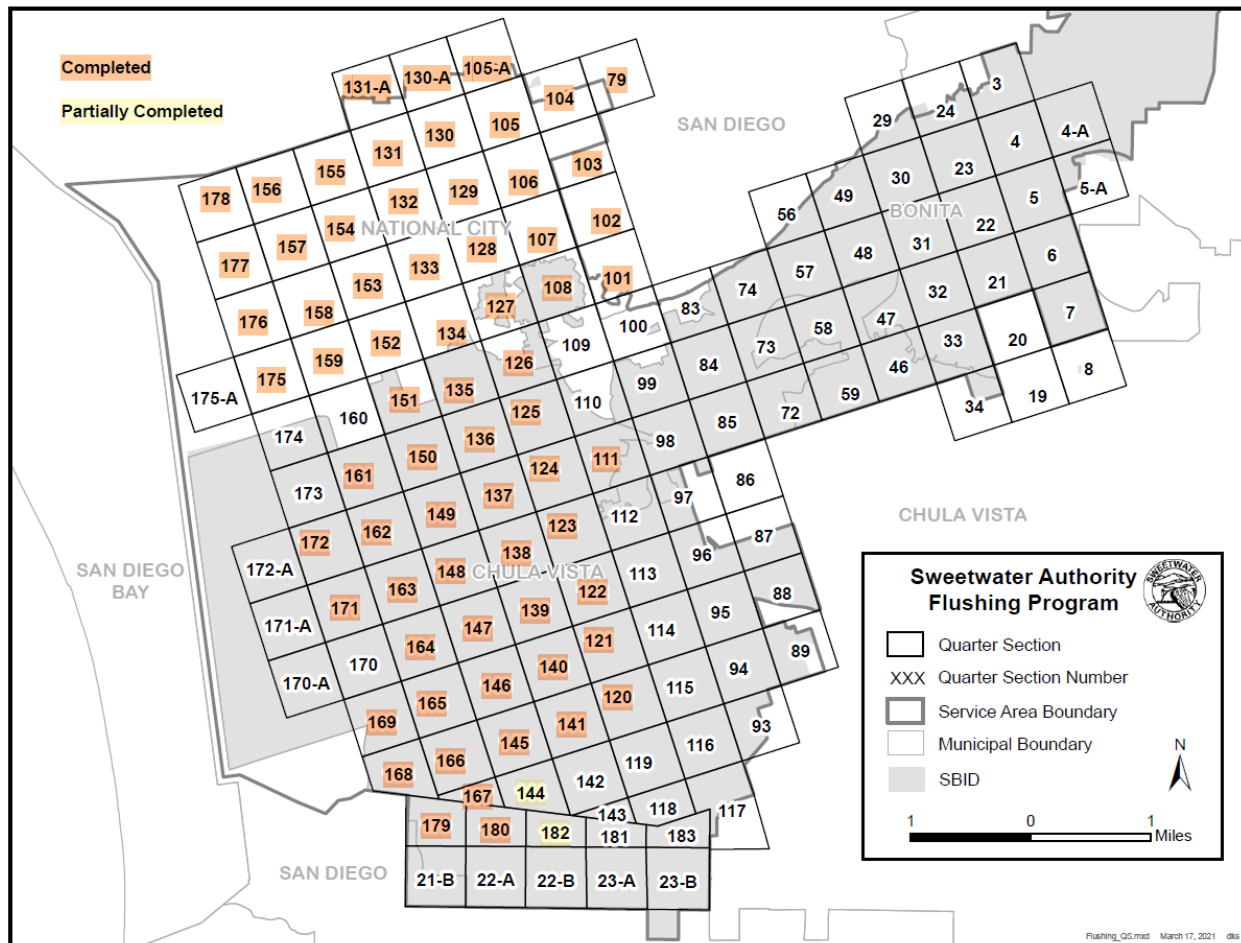
TYPE OF EXPENDITURE	EXPENDITURES TO DATE (12/31/2024)	FY 2024-25 – 1 st and 2nd QUARTER EXPENDITURES
1220 NSF61 filters	\$54,472.60	\$0
Two flushing hoses and hose ramps	\$5,817.22	\$2,147.83
Water quality turbidity meter	\$2,445.79	\$0
O-ring replacements for filter pressure vessels	\$1,983.36	\$0
Fuel cost to date for no discharge flushing truck	\$3,587.31	\$1,423
Blind caps for flushing hoses	\$861.30	\$0
Subtotal for flushing materials	\$69,167.58	\$3,570.83
Labor cost	\$340,144.43	\$90,087.09
TOTAL	\$409,312.01	\$93,657.92

The average cost to flush the distribution system has been \$1,653.18 per mile including labor (no fringe benefits) and materials. This cost is lower than the \$3,278 cost per mile projected in 2021, including labor (no fringe benefits) and materials.

The table below shows additional program metrics such as valves exercised and gallons of water saved:

	SINCE PROGRAM INCEPTION TO 12/31/2024	1st and 2 nd QUARTERS OF FY 2024-25
Valves exercised	1,123	275
Water saved (gallons)	11,859,736	2,722,097
Water saved equates to water used by this many households for one complete year (assuming 299 gallons/household/day)	109	25

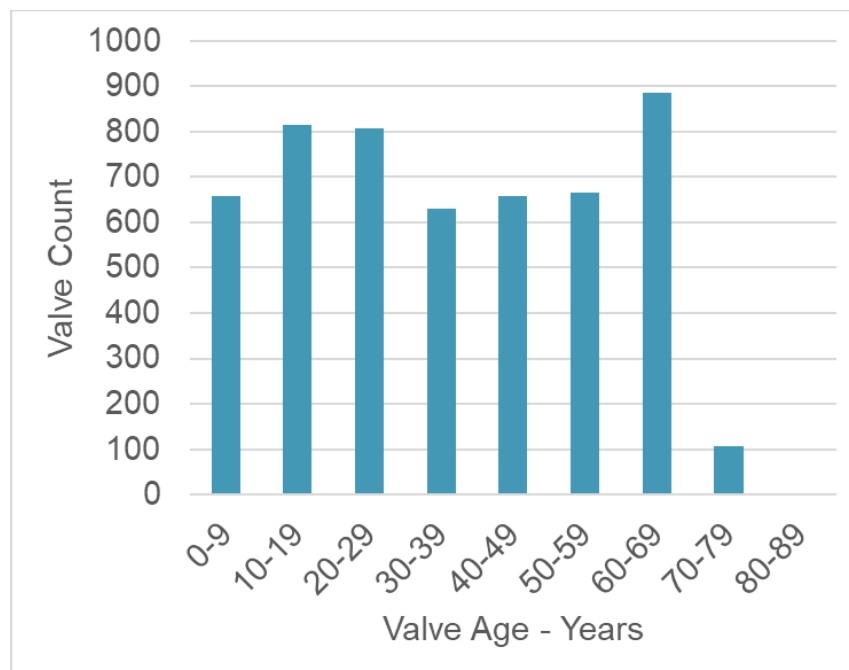
Areas flushed to date can be seen on the map below.



Valve Replacement Program

The ability of an isolation valve to stop the flow of water in a pipe is important in limiting the impact or consequence of failure during planned and unplanned water shutdowns. For pipe of similar diameter and material, a 2007 Analysis of Total Cost of Large Diameter Pipe Failures from the Water Research Foundation, shows that the cost of pipe failure can vary by more than three orders of magnitude and is most influenced by the time required to find and close functional valves.

The Authority's Water Distribution System Master Plan (WDSMP), updated every 5 years and last updated in 2021, provides recommendations for valve replacements and new valves to maintain levels of service. Per the WDSMP, the Authority manages approximately 6,000 distribution system isolation valves. The table below provides number of valves per age.



Based on the recommendations of the WDSMP, the FY 2024-25 Budget includes funds of \$700,000 to replace 57 non-functioning valves and install 3 new valves to improve system reliability. Several of the Authority's older valves, typically 50 years and older, need replacement. Authority staff keeps a list of valves needing replacement and they are prioritized for replacement based on levels of impacts caused by not replacing them and based on available funding. As of the end of Q2 in FY 2024-25, staff has replaced 33 out of 57 non-functioning valves that were budgeted and has installed 0 out of 3 new valves that were budgeted. Staff is on track to replace and install all new valves that were targeted and budgeted for FY 2024-25.

Budget: \$700,000

Expenditures: \$306,755

Local Business Outreach

The Authority performs several outreach efforts to engage local businesses in conducting businesses with the Authority, and then tracks local business engagement and reports it to the Board on a quarterly basis.

For this FY, the Authority has performed the following outreach to engage local businesses:

- Staff maintains a vendor database that local vendors are encouraged to sign up for. Staff reviews the vendor database prior to procurements, to see if any vendors on the database should be included in outreach efforts for the procurement process based on the type of procurement.
- Staff has included the following statements on all Requests for Qualifications, Requests for Quotes, and Requests for Proposals: "Sweetwater Authority encourages participation from small, local and/or disadvantaged businesses." Businesses submitting statements of qualifications, quotes, and proposals list their office(s) locations and oftentimes highlight their involvement of subconsultants located in San Diego County and/or the Authority's service area and any certifications from their firm or subconsultants for small business enterprise, disadvantaged business enterprise, or women owned business.

From July 2024 through December 2024, the Authority has conducted business with the following local businesses to the Authority's service area:

- Specialty Seals & Accessories
- Roman's Truck Body & Paint
- Fastsigns
- California Auto Body & Frame
- South Bay Fence, Inc.
- California Smog Test Only
- Bear Garden Investments, LLC
- Acme Safety & Supply Corporation
- Vista Palms Car Wash, Inc.
- Copy Link Inc.
- F.J. Willert Contracting Co., Inc.
- Ortiz Corporation
- Blinds 4 Less, Inc.
- Wepa Commercial Cleaning
- GC Fence Corp
- CET Electric
- DC&M Inc.
- Next Day Printed Tees, Inc.
- Stanford Sign and Awning Inc

One of the methods used by the Engineering and Operations Department to procure consulting and contractor services is through PlanetBids. This online platform offers private businesses a centralized location to gain access to bid opportunities from public agencies. Through PlanetBids, the Authority has the ability to perform audits on procurement efforts. For FY 2024-25, the Authority advertised several projects for construction, and Requests for Proposals and Qualifications through PlanetBids and other methods. Audit reports from PlanetBids show the following views and/or engagement from local businesses to the Authority's service area:

- Able Heating & Air Conditioning, Inc.
- Best Glass, Inc.
- Bonita Pipeline, Inc.
- DC&M, Inc.
- Gaskill Painting Company
- Hammers Down Construction LLC
- Kearns & West
- Legacy Reinforcing Steel LLC
- Megla Manufacturing, Inc.
- Motion and Flow Control Products, Inc.
- OT Electrical
- Kearns & West
- Megla Manufacturing, Inc.
- SoCal Demolition Company
- T&B Painting
- TB High Performance Construction, Inc.
- Willkompany, Inc.

CIP Process Improvements

This CIP Projects Quarterly Progress Report and future reports in this format are intended to provide more information than previous reporting efforts on the status of CIP Projects. Staff will continue to make reporting improvements in an effort to provide more information. CIP Process Improvements already undertaken by staff are:

- Updated project estimates to account for inflation and account for more realistic timelines on projects.
- Well defined project scope to avoid scope creep.
- Deliberate coordination with municipalities and County on pipeline projects to avoid issues with pavement moratoriums.
- Explore grants to offset project costs.

- Change requirements from physical bid submittals to digital bid submittals through PlanetBids. This change would encourage more contractor participation by making it easier for them to submit bids.
- Continue to leverage the Authority's GIS Platform to provide more information on the CIP Dashboard across all funded CIP Projects.

Attachments

1. CIP Project Schedules – Gantt Chart
2. Example CIP Project Update Sheet



ATTACHMENT 1

Fiscal Year 2024-25
2nd Quarter

Sweetwater Authority Capital Project Schedule

ID	Task Name	Start	Finish	CEQA (Estimated)	Enviro Permits	Budget (12/31/24)	Expended (12/31/24)	3																																											
								'24				2024				'25				2025				'26				2026				'27				2027				'28				2028				'29			
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1										
0	CAPITAL PROJECT SCHEDULE	Mon 7/3/23	Fri 6/30/28																																																
1	CONSTRUCTION/IMPLEMENTATION PHASE																																																		
2	20224011 Clearwell Effluent Meter Replacement	Mon 7/3/23	Fri 2/28/25	NOE	N/A	\$1,201,310	\$669,508																																												
13	20234003 FY2022-23 Pipeline Replacement Project	Mon 8/28/23	Fri 2/28/25	NOE	R/W	\$3,825,800	\$2,123,118																																												
31	20168005,6,7; 20178007, 20208003, 20228007,8,9; 20248009,10 Sweetwater Wetlands Habitat Recovery Project	Fri 9/1/23	Fri 2/28/25	MND 2014 Add. 2020	401, 404, LSA	\$2,067,800†	\$562,334																																												
34	20224004 Fire Tank Replacement at Loveland Reservoir	Mon 9/4/23	Mon 6/30/25	(NOE)	N/A	\$214,240	\$7,065																																												
40	20218003 National City Wells Iron & Manganese Removal System	Tue 1/30/24	Thu 1/8/26	(NOE)	DDW	\$9,182,800	\$783,860																																												
51	DESIGN/ENVIRONMENTAL/PERMITTING PHASE																																																		
52	20014016 New Central Wheeler Tank	Mon 7/3/23	Tue 3/31/26	MND 2021	DDW	\$6,416,000	\$773,936																																												
64	20228002 Aeration/Destratification System for Sweetwater Reservoir	Mon 7/3/23	Thu 4/16/26	EIR 2006 Addendum	401, 404, LSA	\$632,000	\$344,238																																												
79	Tank Rehabilitation Program FY23-24	Mon 12/11/23	Mon 6/30/25	(NOE)	N/A	\$1,629,000	\$8,409																																												
89	20248001 Laboratory Instrument Replacement	Mon 12/4/23	Mon 6/30/25	N/A	N/A	\$275,000	\$21,694																																												
91	20248004 Raw Water Pump Variable Frequency Drive	Mon 12/4/23	Mon 6/30/25	N/A	N/A	\$438,000	\$23,292																																												
93	20258004 Sodium Hydroxide and Sodium Hypochlorite Tank Replacement	Mon 7/1/24	Mon 6/30/25	N/A	N/A	\$220,000	\$0																																												
95	20258005 Bonita Valley Reservoir Residual Control System	Mon 12/4/23	Mon 6/30/25	N/A	N/A	\$600,000	\$4,195																																												
97	20194018 Bonita Valley Reservoir Control Building Roof Replacement	Mon 7/3/23	Mon 6/30/25	N/A (EIR 1982 usable)	N/A	\$150,000	\$300																																												
99	20214011 Stairway Replacement at Loveland Dam	Mon 8/14/23	Wed 1/7/26	(MND)	401, 404, LSA	\$2,165,000	\$265,229																																												
109	20254001 Loveland Reservoir Trails Master Plan	Mon 7/1/24	Mon 6/30/25	(MND)	401, 404, LSA	\$750,000	\$8,125																																												
120	20254002 Deep Well Anode Bed for 30-inch Second Avenue Pipeline Rectifier	Mon 7/1/24	Mon 6/30/25	(NOE)		\$105,000	\$0																																												
131	20254004 FY 2024-25 Pipeline Replacement Projects	Mon 7/1/24	Mon 6/30/25	(NOE)		\$1,900,000	\$0																																												
142	20258001 Desal Programmable Logic Controller Replacement	Mon 7/1/24	Mon 6/30/25	(NOE)		\$208,900	\$87,945																																												
144	20258002 Sodium Hypochlorite Chlorination System	Mon 8/14/23	Fri 12/26/25	(NOE)		\$258,000	\$0																																												
155	PLAN/STUDY PHASE																																																		
156	20224003 Sweetwater Reservoir Capacity Restoration Project	Thu 3/28/24	Wed 6/30/27	N/A	N/A	\$660,000	\$291,735																																												
159	20241002 Facilities Master Plan	Wed 11/1/23	Wed 4/30/25	N/A	N/A	\$700,000	\$237,554																																												
161	20114012 Sweetwater Dam and South Dike Improvements	Mon 7/3/23	Fri 3/28/25	MND 2018	401, 404, LSA	\$2,745,000	\$1,973,018																																												
164	20214019 Programmatic Permitting of Property O&M Plan (NCCP/HCP)	Mon 7/3/23	Fri 6/30/28	(EIR)	NCCP/HCP, 401, 404	\$892,600	\$377,218																																												
172	20211002 Aesthetic Enhancements to Various Well Facilities	Tue 7/2/24	Mon 6/30/25	(NOE)	N/A	\$125,000	\$58,696																																												

Project: CAPITAL PROJECT SCH
Date: Fri 1/10/25

Task

Split

Milestone

Summary

◆

◆

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

◆

◆

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

◆

◆

Start-only

Finish-only

External Tasks

External Milestone

◆

◆

Deadline

Progress

Manual Progress

↓



Sweetwater Authority Capital Project Schedule

Fiscal Year 2024-25
2nd Quarter

ID	Task Name	Start	Finish	CEQA (Estimated)	Enviro Permits	Budget (12/31/24)	Expended (12/31/24)																												
								3	2024				2025				2026				2027				2028										
									'24 Q4	'24 Q1	'24 Q2	'24 Q3	'25 Q4	'25 Q1	'25 Q2	'25 Q3	'25 Q4	'26 Q1	'26 Q2	'26 Q3	'26 Q4	'27 Q1	'27 Q2	'27 Q3	'27 Q4	'28 Q1	'28 Q2	'28 Q3	'28 Q4	'29 Q1					
174	STREET IMPROVEMENTS																																		
175	20254007 Street Improvements			N/A	N/A	\$399,897	\$0																												
176	Unallocated to Specific Project																																		
177	20254009 Third Avenue Sidewalk Gap	Wed 11/27/24	Mon 6/30/25	N/A	N/A	\$27,633	\$0																												
179	20234013 Alpine Avenue	Mon 2/5/24	Mon 6/30/25	N/A	N/A	\$43,600	\$90																												
182	SOFTWARE																																		
183	20238001 Laboratory Information Management System	Mon 7/3/23	Sat 2/1/25	N/A	N/A	\$90,000	\$81,824																												
185	20226001 Authority-wide Electronic Content Management System	Mon 7/3/23	Mon 6/30/25	N/A	N/A	\$150,000	\$37,113																												
187	GRANTS					\$3,776,325																													
188	Granting Agency - Grant Name					Amount Reimbursed																													
189	Project					Local Match																													
190	DWR - State Revolving Fund, Prop 84					\$1,500,000	\$333,959																												
191	Sweetwater Wetlands Habitat Recovery Project					25%																													
192	Well Siting Study					25%																													
193	CDFW - Grant Q2250403					\$275,000	\$38,938																												
194	NCCP/HCP Preparation					25%																													
195	State - Legislative Grant - SB 104 (Budget Acts of 2022 and 2023)					\$750,000	\$750,000																												
196	Loveland Recreation Enhancements					0%																													
197	Federal - Legislative Grant - HR 4366 (Further Consolidated Appropriations Act, 2024)					\$959,752																													
198	National City Wells Iron and Manganese Removal System					0%																													
199	JPIA Risk Control Grant Program					\$9,000																													
200	SDF Well Pump Control Davit Arms					0%																													
201	(PENDING) CEC - Energy Infrastructure Incentives for Zero-Emission (EnergIIZE)					\$78,825																													
202	Electric Vehicle Charging Stations					25%																													
203	SWRCB - Water Recycling Funding Program					\$150,000																													
204	Recycled Water Market Study with OWD					50%																													
205	(PENDING) FEMA - Rehabilitation of High Hazard Potential Dams					\$162,500																													
206	Sweetwater Dam Comprehensive Assessment					25%																													
207	(PENDING) SWRCB - Lead and Copper Rule Revisions Program					\$860,000																													
208	Lead and Copper Service Inventory					25%																													

Project: CAPITAL PROJECT SCH
Date: Fri 1/10/25

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress



NATIONAL CITY WELLS IRON & MANGANESE REMOVAL SYSTEM PROJECT



PROJECT BENEFITS

The National City Wells Iron and Manganese Removal System will minimize/prevent accumulation of iron and manganese deposits within Sweetwater Authority's water distribution system in National City, and will alleviate customer complaints due to discolored water.

PROJECT DESCRIPTION

The National City Wells Facility comprises three wells, with one designated as a backup, and only two wells actively utilized for groundwater production. These wells consistently yield high-quality water that meets all State and Federal standards, necessitating only the application of disinfection and fluoridation processes.

Despite the concentrations of iron and manganese in the raw water meeting regulatory standards, these elements tend to precipitate and accumulate within the distribution system over time. The accumulation is exacerbated by variations in flow velocities resulting from operational and maintenance activities, as well as disruptions caused by incidents such as knocked-off fire hydrants or water main breaks. Consequently, the resuspension of iron and manganese within the distribution system has prompted customer complaints about discolored water in National City.

To address this issue, a pilot system was implemented between 2021 and 2022, informing the comprehensive design of a treatment system for the removal of iron and manganese. The design phase was successfully completed in October 2023. Once the treatment system is constructed, the National City Wells Facility aims to consistently deliver aesthetically pleasing drinking water to customers in National City.

PROJECT UPDATE

Value engineering was performed on the project through one of the Authority's on-call engineering design consultants, with the intent of redesigning the proposed system and reduce construction costs. The project was then redesigned by PACE, the firm previously contracted to design the project, and the project was re-advertised for bids on July 29, 2024. Bids were due on September 10, 2024 and the Board awarded a construction contract in October 2024. Notice to Proceed has been issued to contractor.

BUDGET
\$9,182,800

EXPENDITURE
\$783,860

CONTRACT AWARD
2nd Quarter

CONSTRUCTION ESTIMATE
COMPLETION

SCHEDULE



Contact | Erick Del Bosque | Director of Engineering and Operations (619) 409-6750 - edelbosque@sweetwater.org