



Treatment Plant Capital Project Summaries



Photo: New Sludge Tank Under Construction

Project Number:	18-01	
Project Name:	Wastewater Treatment Plant (WWTP) – Elec/Mech Rehab & Sludge Holding Tank Replacement Project	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Trenor	
Status:	Substantial Completion	
Project Description:	This project is a multi-area project at the WWTP aimed at mitigating risk of failure in the Influent Pump Station, Headworks, 3W/Chlorine Analyzer Building, Effluent Building and Sludge Storage Tank. Most of the work involves replacing aged electrical and mechanical equipment in existing buildings.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$9,137,431	\$9,9,627,934
Financial:	FY Budget:	FY Spent:
	\$4,820,750	\$1,856,802
Reclamation Share:	Estimated at 2.7% of project cost.	
Other Entities:	Pebble Beach Community Services District, CAWD/PBCSD Reclamation Project	
Permits Required:	Coastal Commission Notification	
Challenges:	Electrical Equipment Supply Chains	
Schedule:	<ul style="list-style-type: none"> Construction anticipated for FY2021/2022 into FY2022/2023 	
Consultants:	Design: Kennedy/Jenks Consultants Construction Management: Currie Engineers	
Contractor:	Clark Bros. Inc.	



Photo: Eucalyptus trees on South Side of Treatment Plant

Project Number:	18-28	
Project Name:	Perimeter Tree Plan and Implementation	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Bandy	
Status:	Planning Stakeholder Meeting	
Project Description:	Planning and landscaping around the treatment plant. This will include looking into possibly replacing the non-native eucalyptus trees around the perimeter of the treatment plant with native tree species. The project will start with a study and a plan to determine costs, sequencing schedule, and visual impacts. The Eucalyptus trees around the plant have ongoing maintenance costs, which may be offset in the long term with a different type of tree screening. The purpose is to improve security around plant perimeter.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$130,020	\$5,020
Financial:	FY Budget:	FY Spent:
	\$75,000	\$0
Reclamation:	N/A	
Other Entities:	N/A	
Permits Required:	Currently unknown (In Study Phase)	
Challenges:	Time it will take for new trees to grow up that will fully screen treatment plant from view	
Schedule:	<ul style="list-style-type: none"> Study moved to 2024; anticipate completion 06-30-26 	
Consultants:	Scott Hall Landscape Design	
Contractor:	TBD	



Photo: Existing Dilapidated Fence

Project Number:	19-18	
Project Name:	Perimeter Fencing	
Project Location:	Wastewater Treatment Plant (WWTP)	
Project Manager:	Bandy	
Status:	Design/CEQA	
Project Description:	Install a new fence around the perimeter of the WWTP.	
Department:	Treatment	
Financial:	Cumulative Budget: \$275,000	Cumulative Spent: \$49,801
	FY Budget: \$275,000	FY Spent: \$945
Reclamation Share:	N/A	
Other Entities:	N/A	
Permits Required:	California Environmental Quality Act (CEQA) Mitigated Negative Declaration (MND), Coastal Developmental Permit (CDP) Notification	
Challenges:	Environmental Mitigations	
Schedule:	<ul style="list-style-type: none"> Design in FY2022-2023 Construction in FY2024-2025 	
Consultants:	Kennedy Jenks	
Contractor:	TBD	



Photo: Gas Meter on North Side of River

Project Number:	22-03	
Project Name:	WWTP Gas and Water Main Replacement	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Bandy	
Status:	30% Design	
Project Description:	The WWTP natural gas and water utility service exists on the opposite side of the Carmel River from the WWTP. CAWD owns the piping under the river for these utilities. The water line and gas line are PVC and identified as having a high risk of failure. The gas line is needed for plant operations to provide supplementary heating to the digesters for thermophilic digestion.	
Department:	Treatment	
Financial:	Cumulative Budget: \$300,000	Cumulative Spent: \$167,799
	FY Budget: \$100,000	FY Spent: \$124,335
Reclamation Share:	N/A	
Other Entities:	Cost Share w/ Collections @ 5.5%	
Permits Required:	TBD	
Challenges:	Underground work in riparian area	
Schedule:	<ul style="list-style-type: none"> Currently undergoing alternatives analysis study Design in FY2022-2023 Construction in FY2024-2025 	
Consultants:	Kennedy Jenks	
Contractor:	N/A	



Photo: Conceptual Rendering of Public Use and Bridge

Project Number:	22-04	
Project Name:	CAWD Bridge and Trail Project	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Trenor	
Status:	Funding Strategy	
Project Description:	Construct a new bridge at the location of the existing CAWD bridge over the Carmel River. The Bridge would be open for public use and would allow for new walking trails to connect the City of Carmel-by-the-Sea (Mission Trail) to the Regional Parks (Palo Corona).	
Department:	Treatment	
Financial:	Cumulative Budget: \$550	Cumulative Spent: \$12,257
	FY Budget: \$0	FY Spent: \$11,289
**No budget. Funding potential via Carmel River settlement grants.		
Reclamation Share:	N/A	
Other Entities:	State Parks, Diocese of Monterey, City of Carmel-by-the-Sea, Regional Parks District	
Permits Required:	TBD	
Challenges:	Obtaining Funding and Community Support	
Schedule:	Currently working on video and marketing outreach effort	
Consultants:	TBD	
Contractor:	TBD	



Photo: CAWD Vactor Truck

Project Number:	22-06	
Project Name:	Vactor Receiving Station	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Bandy	
Status:	Bid Phase	
Project Description:	Construct a new Vactor Receiving Station for the Collections Department and the disposal of waste collected in the vactor truck.	
Department:	Treatment	
Financial:	Cumulative Budget: \$354,950	Cumulative Spent: \$100,933
	FY Budget: \$104,950	FY Spent: \$14,265
Reclamation Share:	N/A	
Other Entities:	N/A	
Permits Required:	Coastal Developmental Permit (CDP) Notification	
Challenges:	Design for ultimate user satisfaction.	
Schedule:	Construction starts in June 2024	
Consultants:	Kennedy Jenks	
Contractor:	TBD	

Reclamation Capital Project Summaries



Photo: Exterior of Tertiary Building

Project Number:	22-05	
Project Name:	Reclamation MF/RO and Tertiary System 15-Year Capital Improvement Program (CIP) Master Plan	
Project Location:	Reclamation – Microfiltration (MF)/Reverse Osmosis (RO) and Tertiary Building	
Project Manager:	Treanor/Bandy	
Status:	In Progress	
Project Description:	Asset management condition and risk evaluations, development of projections of capital expenditures, and preliminary engineering planning	
Department:	Treatment	
Financial:	Cumulative Budget: \$300,000	Cumulative Spent: \$91,609
	FY Budget: \$300,000	FY Spent: \$91,609
Reclamation Share:	100%	
Other Entities:	Reclamation Project	
Permits Required:	None	
Challenges:	Complexity	
Schedule:	Planning Process will extend into FY 2023/2024	
Consultants:	Kennedy Jenks Trussell Technologies, Inc	
Contractor:	N/A	

Collections Capital Project Summaries



Photo: View gravity pipe in Carmel easement

Project Number:	19-03	
Project Name:	Carmel Meadows Sewer Replacement	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	Design Update in Progress	
Project Description:	The project will replace 1,300 feet of Ductile Iron Pipe (DIP) on an aerial span and eight manholes by constructing a small pump station at the end of Mariposa Drive. This project is located on an easement parallel to Ribera Road and was originally installed in the early 1960's.	
Department:	Collections	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$2,471,949	\$707,345
Financial:	FY Budget:	FY Spent:
	\$2,000,000	\$92,301
Permits Required:	Coastal Permit and Environmental Review	
Challenges:	Redirecting the sewer to the pump station without requiring ejector pumps.	
Schedule:	Design and Environmental Review completed 6/28/22. Construction on hold for permitting.	
Consultants:	TBD	
Contractor:	TBD	



Photo: Looking at Pump Station Exterior

Project Number:	20-07	
Project Name:	Bay/Scenic Pump Station Rehabilitation	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	On Hold	
Project Description:	Remodel the interior of the pump station and update the SCADA panel to minimize areas prone to flooding.	
Department:	Collections	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$680,892	\$147,243
Financial:	FY Budget:	FY Spent:
	\$650,000	\$70,487
Reclamation Share:	0%	
Other Entities:	Carmel-by-the-Sea, Coastal Commission	
Permits Required:	Exemptions from CEQA and Coastal dependent on panel location requirements.	
Challenges:	Traffic Control, Panel Location away from bluff	
Schedule:	Construct 2023/2024 Fiscal Year	
Consultants:	TBD	
Contractor:	Pending	



Photo: Pipe Bursting Limits on Scenic

Project Number:	20-08	
Project Name:	Scenic Rd Pipe Bursting - Ocean to Bay	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	In Design / CEQA	
Project Description:	Replace approximately 9,525 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation.	
Department:	Collections	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$3,731,786	\$438,883
Reclamation Share:	FY Budget:	FY Spent:
	\$3,500,000	\$104,191
Reclamation Share:	0%	
Other Entities:	Carmel-by-the-Sea, Coastal Commission	
Permits Required:	CEQA & Coastal Development permits from City and County	
Challenges:	Traffic control & poorly mapped underground utilities. Cultural Resources at southern end of project.	
Schedule:	CEQA complete 2/1/2024, Construction 2025	
Consultants:	MNS, Rincon, TBC Communications	
Contractor:	Pending	



Photo: Sewer Line at Pescadero Creek

Project Number:	21-05	
Project Name:	Pescadero Sewer Relocation	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	Environmental Impact Report	
Project Description:	Relocate damaged pipe from creek slope to roadway	
Department:	Collections	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$1,689,236	\$210,602
Reclamation Share:	FY Budget:	FY Spent:
	\$100,000	\$28,347
Reclamation Share:	0%	
Other Entities:	N/A	
Permits Required:	Environmental Review	
Challenges:	Narrow road, depth of manholes, environmentally sensitive area	
Schedule:	Start design, public outreach, & Environmental in Winter 2023.	
Consultants:	MNS, Denise Duffy, TBC Communications & Media	
Contractor:	TBD	

Santa Rita & Guadalupe #23-01



Project Number:	23-01	
Project Name:	Santa Rita & Guadalupe	
Project Location:	Collection System	
Project Manager:	Trenor	
Status:	In Design	
Project Description:	Approx. 5,800 ft of 6" vitrified clay pipe to be replaced with 8" HDP	
Financial:	Cumulative Budget:	Cumulative Spent: \$92,893
	FY Budget: \$3,869,330	FY Spent: \$46,890
Reclamation Share:	0%	
Other Entities:	Carmel-by-the-Sea,	
Permits Required:	None	
Challenges:	Traffic Controls	
Schedule:	Construct Winter 2024. Preliminary Plans Complete.	
Consultants:	MNS Engineers	
Contractor:	TBD	

Photo: LT Capital Schedule

Project Number:	20-06	
Project Name:	Collections 15 -Year CIP	
Project Location:	Collection System	
Project Manager:	Trenor	
Status:	Work in Progress	
Project Description:	Utilize updated sewer line inspection information and flow modeling to develop a 20-year Construction Improvement Plan	
Department:	Collections	
Projection of Total Capital Costs-15-Yr \$63M	Construction Costs: \$63M	Administration Costs: \$10M (20% engineering, legal, admin.)
Financial:	Cumulative 15YR Budget: EST \$63M	Cumulative Spent: N/A
	FY Budget: N/A	FY Spent: N/A
Reclamation Share:	0%	
Other Entities:	River Watch Agreement-see project #20-05	
Permits Required:	none	
Challenges:	Completing all projects near water bodies in time for the February 2024 deadline is unlikely due to lack of public approval.	
Schedule:	2020 - 2040	
Consultants:	West Yost	
Contractor:	N/A	

Collections Non-Capital Project Summaries



Photo: Pipe Repairs

Project Number:	24-01	
Project Name:	2024 Sewer Pipe Repairs	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	Design Phase	
Project Description:	Miscellaneous repairs of existing pipes in the collection system	
Department:	Collections	
Financial:	Cumulative Budget: \$405,000	Cumulative Spent: N/A
	FY Budget: \$405,000	FY Spent: 0
Other Entities:	N/A	
Permits Required:	City and County Encroachment Permits	
Challenges:	Varied site conditions from location to location, as well as various types of deficiencies to repair throughout the collections system.	
Schedule:	2024 thru 2025	
Contractor:	TBD	



Photo: Pipe Repairs

Project Number:	24-02	
Project Name:	2024 Manhole Coating	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	Design Phase	
Project Description:	Coating manholes to extend life span	
Department:	Collections	
Financial:	Cumulative Budget: \$410,000	Cumulative Spent: N/A
	FY Budget: \$410,000	FY Spent: 0
Other Entities:	N/A	
Permits Required:		
Challenges:		
Schedule:		
Contractor:	TBD	

Assessment Districts/Annexations

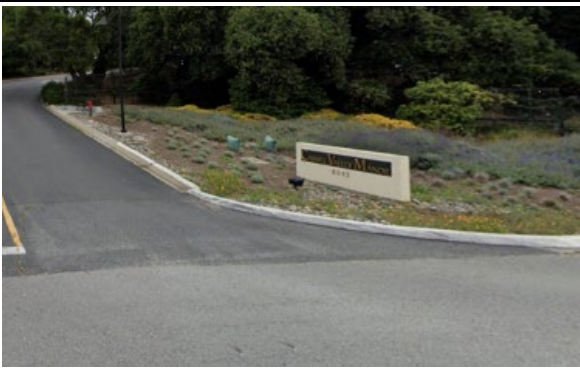


Photo: Entrance to Carmel Valley Manor

Project Number:	19-08	
Project Name:	Carmel Valley Manor Pipeline and Pump Station	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	Startup In April 2024	
Project Description:	Sewer extension project to be completed by the owners of Carmel Valley Manor to connect to CAWD's sewer system.	
Department:	Collections	
Financial: this is an unbudgeted item-under repayment agreement (no funds received)-	Cumulative Budget:	Cumulative Spent:
	\$0	\$180
Other Entities:	FY Budget:	FY Spent:
	\$0	\$0
Permits Required:	Various Private Land Owners	
Challenges:	County Encroachment Permit, Easements through Private Property, Environmental Review	
Schedule:	Funding, Repayment Agreement, easement agreements, Local Agency Formation Council (LAFCO) annexation	
Consultants:	Construction Completion Anticipated in July 2024	
Contractor:	MNS and Rincon are working for Carmel Valley Manor	
	Monterey Peninsula Engineering	

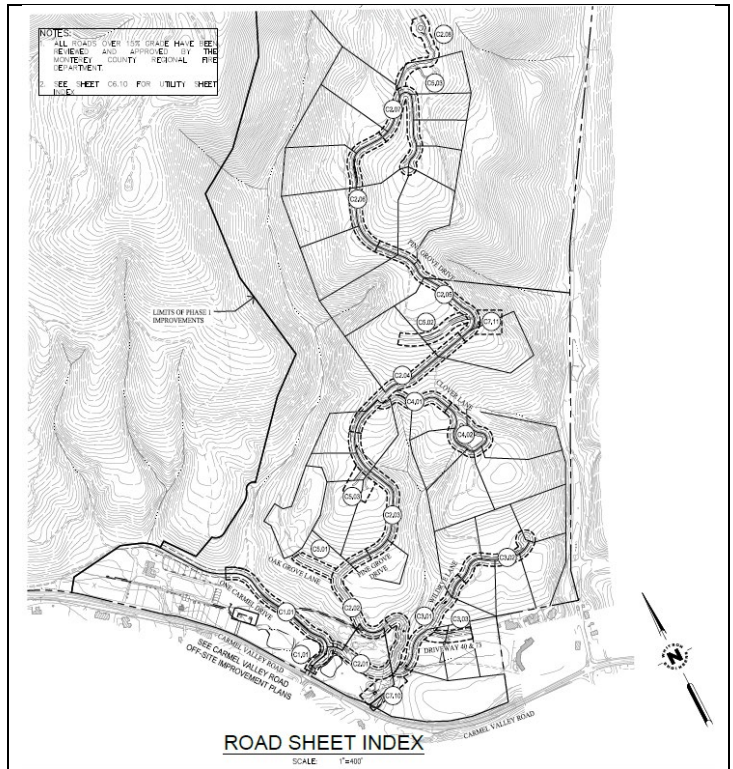


Photo: Map of September Ranch Subdivision

Project Number:	18-29	
Project Name:	September Ranch Subdivision	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	In Construction	
Project Description:	New housing subdivision is being built. Sewer infrastructure is being constructed by developer under jurisdiction of CAWD. Approximately 35 undeveloped lots.	
Department:	Collections	
Financial: this is an unbudgeted item-under repayment agreement	Cumulative Budget:	Cumulative Spent:
	\$0	\$
Other Entities:	FY Budget:	FY Spent:
	\$0	\$0
Permits Required:	N/A	
Challenges:	Developer Obtained Permits	
Schedule:	Construction by developer.	
Consultants:	Construction in 2024	
Contractor:	MNS Engineers, Inc.	
	Don Chapin	

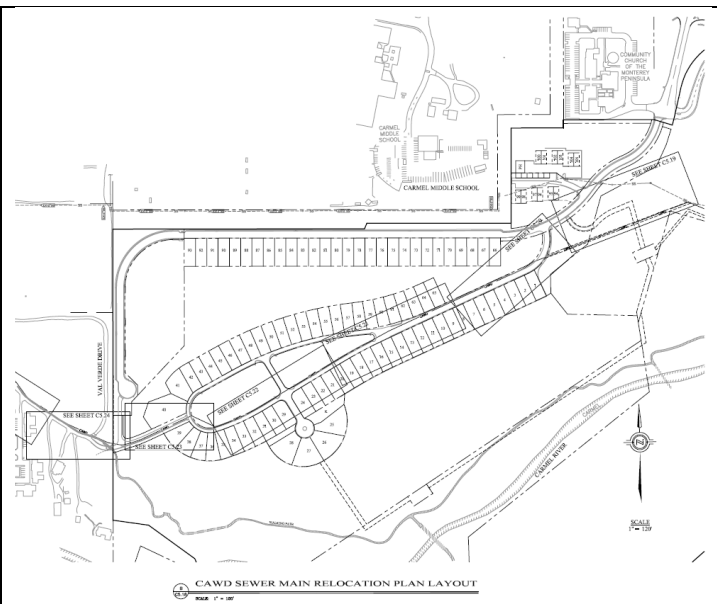


Photo: Location of Rancho Cañada Village Subdivision

Project Number:	23-03	
Project Name:	Rancho Cañada Village Subdivision	
Project Location:	Collection System	
Project Manager:	Trenor	
Status:	Sewer Agreement	
Project Description:	New housing subdivision is being built. Sewer infrastructure is being constructed by developer under jurisdiction of CAWD.	
Department:	Collections	
Financial: this is an unbudgeted item-under repayment agreement	Cumulative Budget:	Cumulative Spent:
	FY Budget:	FY Spent:
Other Entities:	N/A	
Permits Required:	Developer Obtained Permits.	
Challenges:	Construction by developer.	
Schedule:	Construction Pending	
Consultants:	Unknown	
Contractor:	Unknown	

Other Non-Capital Project Summaries



ADP Workforce Now

Photo: ADP Clip Art

Project Number:	N/A	
Project Name:	Workforce Now	
Project Location:	All Supervisor Locations	
Project Manager:	Foley	
Status:	Implementation-Time Card System Pilot	
Project Description:	Implementation of a comprehensive Human Resource (HR) software database for all supervisors and employees to utilize. Modules provide employee development tracking, benefits administration, custom performance review templates, and employee goal management.	
Department:	Administration	
Financial:	Cumulative Budget:	Cumulative Spent: \$2,520 (annual fee)
	FY Budget:	FY Spent: \$2,520 (annual fee)
Challenges:	Technical issues need to be resolved & employee training. Implementation of advanced features for employee development and learning management.	
Schedule:	Implemented in April 2023. HCM Unlocked Consultant hired for specialized implementation services. Currently working on Timesheet component.	
Consultants:	ADP	



Photo: Real Estate Clip Art

Project Number:	N/A	
Project Name:	Real Property Investigation	
Project Location:	Carmel Valley	
Project Manager:	Barbara Buikema	
Status:	Ongoing	
Project Description:	An investigation of a possible new treatment facility site in the mouth of the Carmel Valley, which is in response to the Coastal Commission.	
Department:	Administration	
Financial:	Cumulative Budget:	Cumulative Spent:
	FY Budget:	FY Spent:
	\$75,000	\$0
	\$75,000	\$0
Permits Required:	None – at this time	
Challenges:	Limited land possibilities, regulatory hurdles, and zoning	
Schedule:	open ended	
Consultants:	Mahoney & Associates	



Photo: Cyber Security Clip Art

Project Number:	N/A	
Project Name:	Cyber Security	
Project Location:	District-wide	
Project Manager:	Foley	
Status:	Ongoing	
Project Description:	Internal Cyber Security Incident Response Team (CSIRT) formed, and they are working on a response plan & training. The upgrades to email filtering system have been completed. Stricter geofencing policies have been put in place, and a cold backup system that is sandboxed from the network was installed March 2022.	
Department:	All	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$17,000	\$0
Financial:	FY Budget:	FY Spent:
	\$17,000	\$0
Challenges:	Ongoing training & the need for continual upgrades as skills of hackers grow.	
Schedule:	Continually updating	
Consultant:	Exceedio	

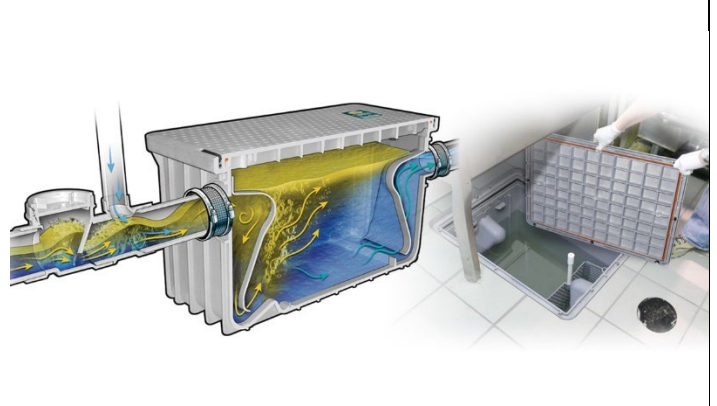


Photo: Grease Trap Graphic

Project Number:	N/A	
Project Name:	Source Control -Environmental Compliance -Six Sigma	
Project Location:	Collection System	
Project Manager:	Treasor	
Status:	Restaurant Plumbing Inspections In Progress	
Project Description:	A Six Sigma project to improve source control for grease laden wastewater being discharged from restaurants. Grease problems are ongoing and require more oversight of restaurants grease control activities.	
Department:	Engineering	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$0	\$2,000
Financial:	FY Budget:	FY Spent:
	\$0	\$0
Permits Required:	None	
Challenges:	Restaurant plumbing.	
Schedule:	Ongoing	
Consultants:	Carmel Fire	



Photo: Futuristic Circuitry

Project Number:	24-03								
Project Name:	Artificial Intelligence Pilot Project								
Project Location:	Treatment Plant								
Project Manager:	Foley								
Status:	Preliminary Evaluation In Progress								
Project Description:	A Pilot Project to test run new artificial intelligence algorithms on time series operating data being gathered in the existing Supervisory Control and Data Acquisition (SCADA) system. The new algorithms will be designed to conduct multivariate analysis of data for Anomaly Detection, and multivariate computations for process control. Initial investment in new computer hardware and software may be necessary as system requirements.								
Department:	Administration								
Financial:	<table border="1"> <tr> <td>Cumulative Budget:</td> <td>\$150,000</td> <td>Cumulative Spent:</td> <td>\$25,923</td> </tr> <tr> <td>FY Budget:</td> <td>\$150,000</td> <td>FY Spent:</td> <td>\$25,293</td> </tr> </table>	Cumulative Budget:	\$150,000	Cumulative Spent:	\$25,923	FY Budget:	\$150,000	FY Spent:	\$25,293
Cumulative Budget:	\$150,000	Cumulative Spent:	\$25,923						
FY Budget:	\$150,000	FY Spent:	\$25,293						
Permits Required:	N/A								
Challenges:	<ul style="list-style-type: none"> Determining Hardware and Software needs to fulfill system requirements to run algorithms. Database restructuring. 								
Schedule:	Work started in March 2024 and is anticipated to continue through end of Fiscal Year (FY) 24-25.								
Consultants:	Enterprise Automation								



Photo: California coastline

Project Number:	22-01								
Project Name:	Long-Term Sea Level Rise Planning								
Project Location:	Treatment Plant								
Project Manager:	Buikema/ Treanor/Bandy								
Status:	2023 Study Complete								
Project Description:	As conditions of Coastal Permit #3-82-199-A8 - the District submitted its Long-Term Coastal Hazards Plan on 03-03-22.								
Department:	Administration								
Financial:	<table border="1"> <tr> <td>Cumulative Budget:</td> <td>\$1,400,00</td> <td>Cumulative Spent:</td> <td>\$219,862</td> </tr> <tr> <td>FY Budget:</td> <td>\$260,000</td> <td>FY Spent:</td> <td>\$219,862</td> </tr> </table>	Cumulative Budget:	\$1,400,00	Cumulative Spent:	\$219,862	FY Budget:	\$260,000	FY Spent:	\$219,862
Cumulative Budget:	\$1,400,00	Cumulative Spent:	\$219,862						
FY Budget:	\$260,000	FY Spent:	\$219,862						
Permits Required:	In response to California Coastal Commission								
Challenges:	Establishing focus on long term objectives and committing to follow through items as outlined.								
Schedule:	Most recent study completed in 2023. Next study to start in 2024 or 2025.								
Consultants:	Greeley & Hansen								



Photo: River Watch logo

Project Number:	20-05	
Project Name:	River Watch Agreement	
Project Location:	Collection System	
Project Manager:	Treanor	
Status:	Work in Progress	
Project Description:	Work to satisfy the milestones in the agreement with River Watch.	
Department:	Collections	
Financial:	Cumulative Budget: N/A	Cumulative Spent: N/A
	FY Budget: N/A	FY Spent: N/A
Reclamation Share:	0%	
Other Entities:	River Watch	
Permits Required:	none	
Challenges:	Completing all projects near water bodies in time is unlikely for the February 2024 deadline due to lack of public approval.	
Schedule:	Due date February 2024	
Consultants:		
Contractor:	N/A	

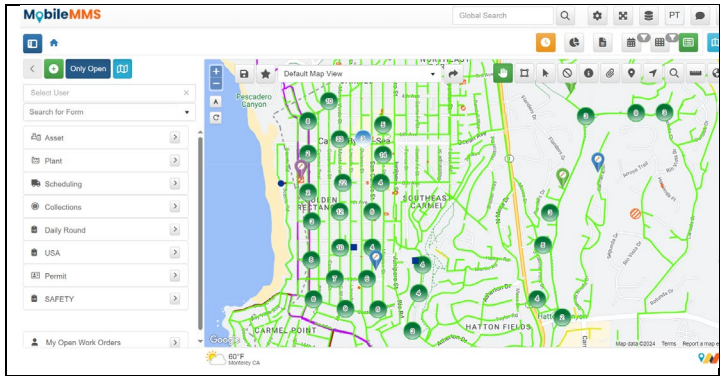


Photo: CMMS System

Project Number:	N/A	
Project Name:	CMMS Upgrade	
Project Location:	District Wide	
Project Manager:	Lauer /Foley/Treanor	
Status:	Systems Setup	
Project Description:	Computerized Maintenance Management System (CMMS) is a workflow tool and work data storage system used for scheduling work and accessing records. CAWD is upgrading this system to better manage information and work in the collection system and operate in the field more effectively.	
Department:	Administration	
Financial:	Cumulative Budget: \$90,000	Cumulative Spent: \$78,000
	FY Budget: \$90,000	FY Spent: \$78,000
Permits Required:	N/A	
Challenges:	Creating custom workflows that fit the specific needs of CAWD	
Schedule:	Development in Progress through FY23/24	
Consultants:	Websoft Developers-Mobile MMS Software	



Photo: Carmel Unified School District and Monterey Peninsula College Logos

Project Number:	N/A	
Project Name:	Summer Internship Program 2024	
Project Location:	District Wide	
Project Manager:	Ed Waggoner	
Status:	Planning	
Project Description:	Hiring local student interns to work at CAWD.	
Department:	All Departments	
Financial:	Cumulative Budget: \$40K	Cumulative Spent: \$0
	FY Budget: \$40K (2024-25)	FY Spent: \$0
Permits Required:	N/A	
Challenges:	Coordination with local schools and finding students.	
Schedule:	The goal is to have interns in the Summer of 2024	
Consultants:	N/A	