

# ACCOMPLISHMENTS IN NUMBERS

**\$14M**

saved on the upgrades of our solids handling facilities by piloting new wet scrubber technology

**\$8.2M**

potential savings on interest costs through 2029 by refinancing debt

**\$297K**

saved through negotiated rate decreases from medical and dental providers

**\$50K**

saved on plant control systems hardware through early-bird pricing

**\$16K**

saved by performing repair of collection system trucks' rodder assemblies in house

**\$9K**

saved on smog-related costs by submitting data from our vehicle diagnostic software

**1,700**

requirements compiled for selection of enterprise resource planning software

**70**

risks inventoried for inclusion in monitoring and tracking program

**20**

facilities evaluated in Security/ Vulnerability Study

## ABOUT CENTRAL SAN

We are a special district responsible for the collection and treatment of wastewater in a 182-square-mile service area in central Contra Costa County.

Our 274 employees strive to provide the best service at responsible rates.

We are governed by a five-member Board of Directors.

- Founded July 15, 1946
- 488,900 residents and 3,000+ businesses served
- 1,500 miles of pipe maintained
- 44M gallons of wastewater treated daily
- 600M gallons of recycled water produced annually
- 20 years of 100% compliance with our wastewater discharge permit
- 3.96/4.0 average customer service rating for sewer system emergency calls
- >2M pounds of household hazardous waste collected and kept out of landfills and waterways each year

## FOR MORE INFORMATION

please visit us at  
[www.centrialsan.org](http://www.centrialsan.org)



**FY 2017-18  
SUMMARY OF  
OPTIMIZATIONS**



# BUSINESS PROCESS IMPROVEMENTS

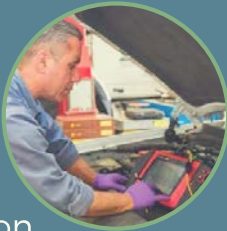
## COMPLETED

- Documented business process to identify opportunities for efficiency.
- Introduced electronic timekeeping for employee payroll.
- Launched new and enhanced customer website.
- Established Internal Audit Program.
- Completed audits on payroll, petty cash, and procurement cards.
- Implemented locating software to improve ability to dispatch field crews.



## ONGOING

- Replace enterprise resource planning software at the foundation of our operations.
- Use project management information system for tracking capital projects.
- Group pipeline cleaning schedules by location for increased productivity.



**CityWorks® Excellence in Departmental Practice Award Winner** for creative use of our maintenance management software and our suggestions to improve the program.



# INFRASTRUCTURE UPGRADES



Reliabilityweb.com® **Best Reliability Engineering for Maintenance Program Uptime Award Winner** for excellence and leadership in reliability and asset management.

## COMPLETED

- Installed new bar screens to improve inorganic material removal at the first stage of treatment.
- Completed Vulnerability/Security Study and established Security Coordination Committee.



## ONGOING

- Replace steam system for more effective energy recovery to prepare for future regulatory requirements and expanded use of recycled water.

## DON'T JUST FIX IT; IMPROVE IT

Our Plant Maintenance staff is constantly rehabilitating our assets to extend their useful life and optimize their performance, going beyond the preventive maintenance (PM) or repair to execute "DJFIs," such as the following done this year:

- Replaced Furnace No. 2 center shaft drive for increased system control.
- Replaced fiberglass conduit with stainless steel for greater reliability.
- Added hatch for operators to more easily access a three-way valve at the pre-aeration basin.



# EFFICIENCIES

## COMPLETED

- Confirmed wet scrubber technology performance and design criteria, resulting in \$14M estimated savings for solids handling facility project.
- Sent automatic vehicle locating data to CA Bureau of Automotive Repair in lieu of having vehicles smogged.



CA Water Environment Association Engineering and Research - **Research Achievement of the Year Award Winner** for our Wet Scrubber Pilot

## ONGOING

- Upgrade Solids Handling equipment to increase resiliency and decrease O&M costs for operating the facility.
- Analyze our sludge aging to ultimately achieve the necessary wet weather capacity using our existing selector infrastructure.
- Test use of lime in solids processing for potential reduction in chemical costs.
- Adoption of Uniform Public Construction Cost Accounting Act to reduce administrative costs of bidding and expedite project completion.

