



CARPINTERIA
Sanitary District

Fall 2023

NEWSLETTER

Environmental leadership in Carpinteria since 1928



GREETINGS from Craig Murray

General Manager,
Carpinteria Sanitary District

We are excited to update you on recent and ongoing activities here at the Carpinteria Sanitary District, and also to take a look back at our proud 95-year history. The District started its public service journey in 1928, when the town's population was under 2,000 people. Sewer pipelines were first installed concurrent with construction of the core downtown business and residential areas. A lot has changed since then, particularly in the light years of advancement in wastewater treatment technology. However, our core mission remains the same. We provide reliable and cost effective wastewater collection, treatment and disposal for the Carpinteria community.

As we look to the future, our agency is focused on sustaining our award-winning services for the next 95 years. We will soon begin construction on the Carpinteria Advanced Purification Project (CAPP) in order to supply Carpinteria Valley with a new local, drought-proof water source. Our headquarters on 6th Street is energy neutral and built to 21st Century environmental standards. We recently deployed an all-electric van equipped with a robotic sewer inspection system that allows us to inspect our buried pipelines while generating zero emissions.

Cheers to the next 95 years!

CAPP

CARPINTERIA ADVANCED PURIFICATION PROJECT

CSD Prepares to Build Advanced Water Purification Facility

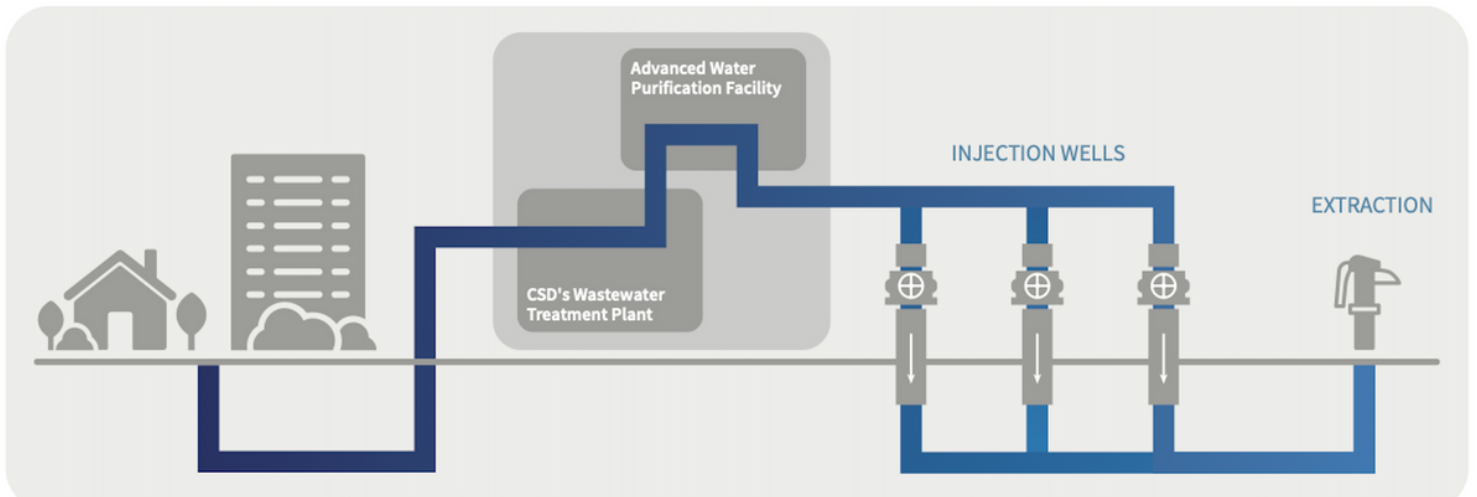
Since 2016, the Carpinteria Sanitary District has worked in partnership with the Carpinteria Valley Water District (CVWD) on development of the Carpinteria Advanced Purification Project (CAPP). This important project will generate over 1 million gallons of purified water every day to safeguard our local groundwater supplies, regardless of what Mother Nature delivers in the form of rainfall in a changing climate. The Advanced Water Purification Facility, or AWPF, that will produce the purified water for CAPP, will be designed to meet all State regulatory requirements and will mirror other facilities that are successfully and safely producing purified water for potable reuse throughout California.

Latest Steps: Pilot Testing and System Design

The AWPF is currently in its final design phase. This summer, we brought in a pilot treatment system to optimize the design of the facility's ultrafiltration membrane and to provide additional water quality data for use in the final design. The pilot plant also allows us to compare the performance of membrane filters from various manufacturers. The on-site pilot plant provided our operators first-hand experience operating a membrane-based treatment process. A team of engineers specializing in advanced water purification facilities will use data from the pilot treatment facility to inform the final system design in Carpinteria.

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CAPP CLOSES THE LOOP ON WATER CONSERVATION



Wastewater from homes and businesses travels to the Carpinteria Sanitary District's wastewater treatment plant. Currently, this valuable water is treated and then discharged to the ocean.

With the proposed Advanced Water Purification Facility, this water will be purified for beneficial reuse.

It then travels along a new pipeline to several injection wells, where it is injected into the groundwater basin.

After several months, the water is then extracted using existing CVWD wells for drinking water purposes.

CAPP FREQUENTLY ASKED QUESTIONS

How does advanced treatment work to purify water?

There are three main steps in the advanced treatment process: ultrafiltration, reverse osmosis, and ultraviolet light/advanced oxidation. Combined, these purification processes remove salts, bacteria, viruses and micro-constituents like pharmaceuticals and personal care products to produce water of a quality that is proven to exceed drinking water standards.

How does purified water get delivered to homes and businesses?

The purified water will not be directly delivered to homes and businesses. Instead, the water will be purified, tested and pumped through an injection well into the Carpinteria Groundwater Basin. Carpinteria Valley Water District draws from the basin as needed, treats the water again and then delivers it to customers in the same way potable water from all sources is currently delivered to Carpinteria homes and businesses.

Have similar systems been used in other areas?

The multi-barrier advanced purification process designed for CAPP mirrors systems used in Orange County, California to produce over 130 million gallons of purified water each day. Monterey, San Diego, Los Angeles, Oceanside and many other communities are operating similar treatment systems to produce purified recycled water to augment their groundwater supplies.

How do we know advanced purification is safe?

The California State Water Resources Control Board has established requirements for public water purification systems and operations that are among the most stringent in the world. The water must undergo continuous monitoring and is connected to an automatic shut off if a problem is detected with water quality. Designs must meet all standards before operating permits are issued.

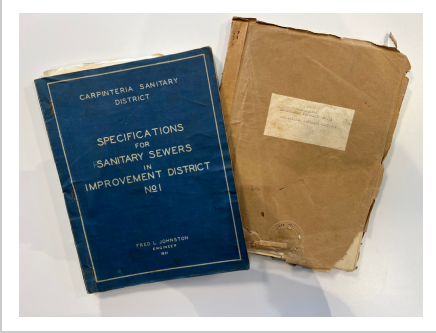
How much water will CAPP produce?

CAPP will produce approximately 1 million gallons of water each day. This new source of local water will be used to replenish the groundwater aquifer even when drought makes water scarce. CAPP will meet a quarter of Carpinteria's demand for potable water as part of a multipronged local approach to water resilience.

Learn complete project details from Carpinteria Valley Water District at <https://cvwd.net/capp/>

HAPPY BIRTHDAY TO US!

CSD Looks Back on 95 Years of Service!



1928 — The District is formed by a vote of area residents to provide wastewater collection and disposal for the downtown area.

1930s-1940s — The sewer system expands as the community grows. Wastewater is collected and receives minimal treatment prior to discharge to the Pacific Ocean.

1951 — CSD constructs its first wastewater treatment plant with a 500,000-gallon daily treatment capacity at a location on 6th Street previously used to grow lima beans.



1961 — CSD upgrades and expands its treatment plant to a capacity of 2 million gallons per day, including a new, longer outfall pipe, primary clarification, trickling filters, final clarification and anaerobic sludge digestion. This facility served the community well for over 30 years.

1993 — The wastewater treatment plant undergoes a major upgrade involving replacement of the majority of the process infrastructure that is used today. Treatment includes preliminary screening and grit removal, primary clarification, extended aeration biological treatment, final clarification, chemical disinfection, aerobic digestion and odor control systems.



2016 — CSD begins planning for the Carpinteria Advanced Purification Project in partnership with Carpinteria Valley Water District to develop a new water supply.



2022 — CSD opens its first permanent headquarters building with new construction that is energy neutral and sustainable.



IS YOUR NEXT CAREER AT Carpinteria Sanitary District?

Carpinteria Sanitary District regularly has opportunities available for rewarding careers. The local need for qualified water professionals will only grow as the CAPP project is implemented. Qualified professionals are needed across the state as public agencies work to secure a clean, safe and reliable water supply. Currently, we are recruiting for a certified Treatment Plant Operator at the Grade II or higher level. These experienced operator positions are in high demand and short supply. Indeed, the job market for certified water professionals is hot.

Learn more by visiting our website at <https://carpsan.com>

REMEMBER: Flushing Wipes Clogs Pipes!



EMPLOYEE SPOTLIGHT: EDDIE SAENZ, LEAD COLLECTIONS OPERATOR

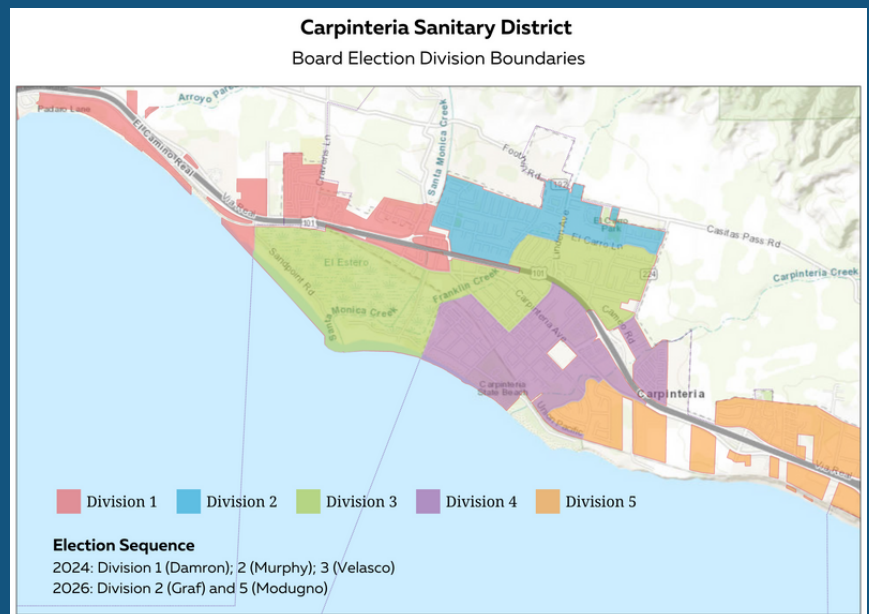


Born and raised in Carpinteria, Edward “Eddie” Saenz has a 27-year tenure with Carpinteria Sanitary District and an encyclopedic knowledge of our nearly 50 miles of buried sewer pipelines. Our Lead Collections Operator deploys his sewer skills daily while upholding safety and environmental standards and keeping the District’s collection system functioning and flowing 24 hours a day, seven days a week. Collection System Supervisor Tim Gallup credits Eddie’s extensive knowledge and dedication to the District for helping to quickly resolve any issues that arise. In Eddie’s spare time, you might catch him at a CaliVibes concert or enjoying a pint at Island Brewing Company. If you bump into him, let him know you appreciate all the thought you don’t have to put into your wastewater’s trip from home to the treatment plant.

DIVISION-BASED ELECTIONS BEGIN IN 2024

For the November 2024 General Election and beyond, Carpinteria Sanitary District Board of Directors members will be elected to represent five discrete electoral divisions within the Carpinteria Sanitary District boundary. Over many months, the Board worked with the public and consultants, using census data to generate a number of potential map configurations. Ultimately, the Board approved the electoral division map pictured at right in June of 2023.

Starting in 2024, voters will only be able to select candidates for the Board seat representing the division in which they reside. Agencies throughout the State of California, including the City of Carpinteria, Carpinteria Unified School District and the other independent special districts in Carpinteria, have moved to district or division based elections to better comply with numerous court rulings related to the California Fair Voting Rights Act.



Court findings have roundly determined that public agencies better comply with the CFVRA through district elections. If you have questions about the new election districts or the process, please visit our website or email us at info@carpsan.com.

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Sanitary District


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