Who We Are

- 3,300 acre-feet per year
- 48 employees
- Serve the areas of Aptos, La Selva Beach, Opal Cliffs, Rio Del Mar, Seascape, Soquel, and portions of Capitola
- 100% groundwater conveyed through 165+ miles of pipeline
- Santa Cruz Mid County Groundwater Basin
Our Water Challenge

- **Groundwater** is the only source of water for Soquel Creek Water District and much of the SC Mid-County Region.

- **Critically overdrafted** as identified by the State of California with a mandate to be sustainable by 2040.

- **Contaminated** with seawater intrusion along the coast.
Our Primary Water Solution

• Pure Water Soquel will **replenish the groundwater basin**

• Pure Water Soquel will **create a seawater intrusion barrier**

• Pure Water Soquel will **restore the Groundwater Basin to sustainable levels**
ONCE UPON A TIME
Looking Back…

<table>
<thead>
<tr>
<th>2013-2014</th>
<th>2015</th>
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<tr>
<td><strong>scwd² Desalination Program put on hold</strong></td>
<td><strong>Initiate on-going Public Engagement and Project Evaluation</strong></td>
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<td>• Conducted 13-month public process.</td>
<td>• Develops Community Water Plan</td>
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<td><strong>State Mandate</strong></td>
<td>• Through public process and input, Board directs staff to further evaluate recycled water, in addition to desalination and surface water.</td>
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<td>• California passes Sustainable Groundwater Management Act which requires local Basin to be sustainable by 2040.</td>
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Community Water Plan
Created for Our Community, With Our Community

Conservation + Groundwater Management + New Supplies

New Supplies
- Water Purification
- Pure Water Soquel
- Excess River Water Purchase
- Storm Water Capture
Signs of resistance...
Sewage Treatment Plant in OUR Neighborhood

If We Don’t Act NOW

Industrial installation in a RESIDENTIAL NEIGHBORHOOD
Loss of HOME EQUITY, FOUL ODOR, NOISE, Traffic Impacts
Night Lighting Glare, Ground Borne Vibration, Visual Blight, 3 Years of Construction
Potentially Significant: "SUBSTANTIAL ADVERSE EFFECTS ON HUMAN BEINGS AND ENVIRONMENT"

Sign the Petition @ www.goo.gl/BUfzj7
(case sensitive)

or

Go to www.change.org
And search Soquel

Surface Water Transfer Info
www.waterforsantacruz.com

Sequel Creek Water Dist. Notice of Preparation
(This is their environmental info)
goo.gl/08k1ae (case sensitive)
Customer Petitions

Stop Soquel Creek Water Dist. RAW WASTEWATER TREATMENT PLANTS!!

By signing, you accept Change.org Terms of Service and Privacy Policy, and agree to receive occasional emails about campaigns on Change.org. You can unsubscribe at any time.

Soquel Creek Water District is in the EIR phase of building two treatment plants on the corner of Capitola Ave. and Soquel Dr. in Soquel CA. Raw wastewater and secondary/tertiary water will be pumped from the wastewater treatment plant in Santa Cruz to this site. It will then be processed and injected back into the aquifer to help offset the overdraft condition. We, the undersigned, are concerned citizens who urge our leaders to act now to change the location of the proposed plant. This is a residential neighborhood! We don't want the odor, noise, substantial light & glare at night, ground borne vibration, decline in home equity, decline in living environment. We want to live in a neighborhood not an industrial area! Go to the link to sign the petition. Let them know what we think. Thanks.

goo.gl/BUfzj7
Public Meetings
Phone Message:
“Melanie- I recommend you drink your own sewage water”

WHAT YOU NEED TO KNOW ABOUT SOQUEL CREEK WATER DISTRICT’S PUREWATER SOQUEL PROJECT

1) THE DISTRICT IS RE-STARTING THE ENVIRONMENTAL REVIEW SCOPING PROCESS BECAUSE OF CITIZEN OUTCRY REGARDING FORMER PLANS TO PLACE A SEWAGE TREATMENT PLANT IN THE RESIDENTIAL AREA NEAR THE DISTRICT OFFICE.

2) PUREWATER SOQUEL IS ONLY ONE OF FOUR POSSIBLE SUPPLEMENTAL WATER SUPPLY OPTIONS BUT THE DISTRICT IS ALREADY BUDGETING FOR THAT OPTION ALONE.

WATER RATES ADVISORY COMMITTEE MEETS JULY 17, 3PM-4PM.

3) THE DISTRICT 2018-2019 BUDGET INCLUDES A 17% RATE PAYER INCREASE TO COVER COSTS OF THE PUREWATER SOQUEL PROJECT.

4) DISTRICT CONSULTANTS ADMIT THE PUREWATER SOQUEL TREATMENT PROCESS IS ENERGY-INTENSIVE AND WILL NOT BE ABLE TO COMPLETELY REMOVE CARCINOGENIC CONTAMINANTS, SUCH AS NDMA, DRUG MIXTURES.

LEARN MORE ABOUT CONTAMINANTS ASSOCIATED WITH THE PROPOSED PROJECT: WWW.WATERBOARDS.CA.GOV/DRINKING_WATER/CETRIC/DRINKINGWATER/NDMA.SHTML AND ALSO: WWW.WATERBOARDS.CA.GOV/DRINKING_WATER/CETRIC/DRINKINGWATER/DO
Building Trust
A sustainable and drought-free water supply is essential for preserving and promoting economic vitality throughout Santa Cruz County. For these reasons the business community is deeply supportive of the Pure Water Soquel Project.

Robert Singleton
Executive Director,
Santa Cruz County Business Council

Saltwater intrusion is destroying agricultural land along the coast. I’ve experienced it in my field where we grew broccoli for many years. The well that provided irrigation water became contaminated and the field is no longer suitable for farming. It is now time to address this problem and to begin protecting valuable farmland.

Pete Cartwright
Long Term Resident of La Selva Beach

We are proud to be water stewards of conserving, recycling, and protecting the environment and creating a thriving community.

TwoCastro and Carol Amore
Cayucos Council Chamber of Commerce

The problem of saltwater intrusion and ongoing overdraft must be addressed. I am pleased the water District is responding to this serious issue before it is a full-scale crisis.

Craig Wilson
Public Policy Officer & District Customer

#InTheTogether Campaign
Elected and Key Officials to Attend Tours and Conferences
Convened Independent Technical Advisory Panel
Created a Mobile Education Trailer
SkyTEM and Ramboll took a geophysical survey of the groundwater basin along the shore **to map the freshwater/seawater interface.**
Data and Science: Groundwater Modeling
Data and Science: Economic Impacts Analysis

$903M
Total Economic Benefit

RESIDENTIAL
BUSINESS
ENVIRONMENTAL

HIGHER COST OF WATER TO CUSTOMERS

725 JOB LOSSES

2,100 LESS HOMES BUILT

Dr. Brent Haddad
Associate Dean of Engineering for Technology Management and Professor of Environmental Studies
On average, ~8 million gallons per day of treated wastewater currently goes out into the Monterey Bay National Marine Sanctuary.
We Sought Community Input

Customers are comfortable with purified recycled water

Support investment in infrastructure to ensure a safe, reliable water supply

Support taking strong action now to address the issues of over-drafting and seawater contamination of the local groundwater

Are comfortable with Pure Water Soquel

SqCWD Phone and On-Line Survey, January 2020, performed by FM3
Small but mighty
Agency and Community Support
Program Team Support and Implementation
Regional Benefits of Pure Water Soquel Align with Community Values

Reduces Discharge into the Ocean by 25%

Provides a Seawater Intrusion Barrier

Reliable and Drought-Proof Water Supply

Can be Accomplished Soon

Uses Green Energy

Promotes Economic Vitality

Produces High Quality Water

Can be Scaled-Up
Naming the Project and Creating a Logo

In 2016, the name Pure Water Soquel was selected. In 2020, the Butterfly Logo was designed.

The new PWS logo with the butterfly has many symbolic representations.

Butterflies represent transition, endurance, change, hope, and life.

The PWS Project is like a butterfly.

• The PWS Project will transition and change the District’s sole source of supply from an overdrafted groundwater basin.

• PWS will give the groundwater basin the endurance it needs to prevent further seawater intrusion which in turn gives us hope for a sustainable water supply for future generations. And, of course, water also represents life like a butterfly.

• The butterfly also represents the regional aspect of the PWS Project since they are special here in Santa Cruz County.

• And lastly the middle wing looks like a water drop symbolizing the water we are producing to protect our groundwater basin.
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2019 and Beyond….

2019
Community Input, Furthering Design, and Statewide Funding
• On-going community meetings and input
• Awarded CA $50 million grant funding and ~$36M low-interest loan
• Narrowed pipeline and treatment facility locations

2020
Additional Funding and Begin Construction of Seawater Intrusion Prevention Wells
• Executed up to $88.9M WIFIA low-interest loan
• Three SWIP wells: Monterey Avenue, Willowbrook Lane, and Twin Lakes Church
• Awarded Title XVI Bureau of Reclamation Grant

2021
Begin Construction of Conveyance; Treatment Facilities complete design; Construction anticipated to begin in late Fall for monitoring wells and treatment facilities
• Pipelines Project awarded
• Monitoring wells awarded
• Treatment project presented to Board

2022
Construction underway.

2023
Initiate start-up and commissioning. Project Construction Complete.

Photo by Kevin Painchaud
Pure Water Soquel Overview

1,500 acre-feet per year of purified water to be produced. Expandable in the future to 3,000 acre-feet per year
Seawater Intrusion Prevention (SWIP) Wells Project

Construction: July 2020 – December 2022

24 hour drilling

Filter pack
Conveyance Project

Construction: May 2021-January 2023

Conveyance Project Kick-off 5/24/21

Construction of 8 miles of pipeline to begin May 24

Funds to build the water pipeline are coming out of a $50 million grant from the State Water Resources Control Board. The Pure Water Soquel project is two-tiered: reduce surface contamination and bolster ground water levels in the aquifer.

We are challenged by both drought, and an overdrawn groundwater basin," said Meador Schumacher, communications manager for the Soquel Creek Water District. "We're challenged with the fact that we rely on 100% local water in our county, we're not connected to any state or federal import system," Meador Schumacher said.
Treatment Facilities Project

Construction: Fall 2021-Spring 2023

Tertiary Treatment Facility at Santa Cruz Wastewater Treatment Facility

Water Purification Center At Santa Cruz Wastewater Treatment Facility
Treatment Process Flow Diagram for Both Facility Sites
Water Purification Facility - Artist’s Rendering
Operational Permits related to Groundwater Replenishment

- **Reverse Osmosis Concentrate (ROC) Management**
  Include Pure Water Soquel ROC line flows in City of SC's NPDES Permit

- **SC non-potable reuse**
  Disinfected tertiary recycled water facilities at City of Santa Cruz Wastewater Treatment Facility

- **Groundwater Replenishment**
  WDR/WRR for Seawater Intrusion Prevention (SWIP) well recharge and AWPF facilities

City of SC WWTF existing outfall for treated secondary effluent is one mile offshore.
Financing the Project

Prop 218 Rates
- Approved Rates by our ratepayers

Grants
- Prop 1 Groundwater Grant through State Water Resources Control Board (SWRCB) - Planning and Implementation
- Title XVI Water Smart Grants through US Bureau of Reclamation – Feasibility and Implementation

Low-Interest Loans
- Seawater Intrusion Control Loan through SWRCB
- WIFIA Loan through US EPA

Interim Financing
- Revolving Line of Credit through CoBANK
Recognizing and Overcoming Challenges
Favorite Books

### The Leadership Challenge – by Kouzes and Posner

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<th>The Five Practices of Exemplary Leadership</th>
<th>Ten Commitments</th>
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<td>Model the Way</td>
<td>• Clarify values by finding your voice and affirming shared ideals.</td>
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<tr>
<td></td>
<td>• Set the example by aligning actions with shared values.</td>
</tr>
<tr>
<td>Inspire a Shared Vision</td>
<td>• Envision the future by imagining exciting and ennobling possibilities.</td>
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<td>• Enlist others in a common vision by appealing to shared aspirations.</td>
</tr>
<tr>
<td>Challenge the Process</td>
<td>• Search for opportunities by seizing the initiative and by looking outward for innovative ways to improve.</td>
</tr>
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<td>• Experiment and take risks by constantly generating small wins and learning from experience.</td>
</tr>
<tr>
<td>Enable Others to Act</td>
<td>• Foster collaboration by building trust and facilitating relationships.</td>
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<td></td>
<td>• Strengthen others by increasing self determination and developing competence.</td>
</tr>
<tr>
<td>Encourage the Heart</td>
<td>• Recognize contributions by showing appreciation for individual excellence.</td>
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<td>• Celebrate the values and victories by creating a spirit of community.</td>
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### The Infinite Game – by Simon Sinek

“When we play with a finite mindset in the infinite game, we hurt trust, we hurt cooperation, and we hurt innovation.”

— Simon Sinek

TO LIVE OUR LIVES WITH AN INFINITE MINDSET MEANS THAT WE ARE DRIVEN TO ADVANCE A CAUSE BIGGER THAN OURSELVES.

Simon Sinek
“SURROUND YOURSELF ONLY WITH PEOPLE WHO ARE GOING TO TAKE YOU HIGHER.”
— OPRAH WINFREY

“I would rather have questions that can’t be answered than answers that can’t be questioned.”
— Richard P. Feynman

“IF YOU'RE NOT MAKING MISTAKES, THEN YOU'RE NOT DOING ANYTHING. I'M POSITIVE THAT A DOER MAKES MISTAKES.”
John Wooden
ADDICTED2SUCCESS.COM

ALWAYS PASS ON WHAT YOU HAVE LEARNED.
— YODA
Ways to Stay Informed

• Visit our website
• Sign-up for Email Updates
• Visit Our On-Line Library
• Schedule a Presentation
Thank you.