

Oral Communications

Questions & Concerns Expressed
At Previous Meeting

Outreach

- Did we do sufficient outreach to inform people regarding the Pure Water Soquel Project?

CEQA Outreach & Notification

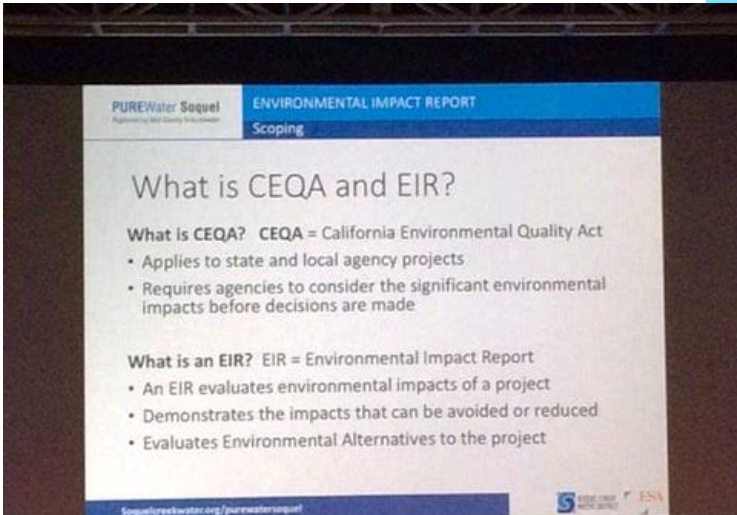
- **Direct Mail of NOP-IS, November 15, 2016** (including State Clearinghouse) and local newspaper – *Met CEQA Guidelines*

Additional Outreach and Notification beyond CEQA Requirements

- **Direct mail of postcard to adjacent property owners/occupants**, November 11, 2016 (over 6,800 mailed), provided at 8 libraries
- **Posting of notice on District's website**, November 16, 2016
- **Email** – Scoping Period Press Release, November 16, 2016 (85 addressees)
- **Email** – Scoping Period Notice, November 17, 2016 (over 7,000 addressees)
- **Email** – Project Update, December 7, 2016 (over 7,000 addressees)
- **Email** – Scoping Period Extension, December 21, 2016 (over 7,000 addressees)
- **Email** – Project Update, January 4, 2016 (over 7,000 addressees)
- **Newspaper advertisements/legal notice:**
 - Aptos Times, November 15, 2016
 - Santa Cruz Sentinel, November 16 and November 30, 2016
 - Aptos Times, December 1, 2016
 - Capitola Soquel Times, December 2016
 - Santa Cruz Sentinel, December 26, 2016
- **Two Scoping Meetings:** December 7, 2016 (afternoon and evening)
- **Extension of Scoping Comment Period** to January 5, 2017 (50 day period)

Further Additional Outreach

- Project Evaluation 2013 at Board Meetings
- Community Water Plan 2014 – mailed to all customers
- Monthly Email Blast (7000 households/people) – often featured or mentioned Pure Water Soquel
- Monthly Aptos/Capitola Times Column – several articles featured or mentioned Pure Water Soquel
- Four SC Sentinel Articles on Pure Water Soquel – Nov. 2016, Dec 6 & 19, 2016, Feb. 22, 2017
- Good Times Paper - April 20, 2016
- Neighborhood Meetings – 4
- Bi-Monthly District Newsletter – featured and mention many issues (all customers)
- Social Media – Facebook, Next-door, SNA
- Board/Commission Presentations (some televised) – to Capitola Council, Co. Supervisors, Co. Water Commission, Co. Sanitation, SC City Water Commission, Mid-County Groundwater Agency
- Discussions with Individual Neighbors
- Door hangers delivered to residents on Rosedale Ave
- Letters to over 100 Neighbors from last meeting with FAQs



Scoping Meetings and Requested Neighborhood Meeting

Water Quality

Is important to us –
central mission.

National Water Research Institute

Expert Panel

for Soquel Creek Water District's

Pure Water Soquel Project

The goal of this Independent Panel review is to ensure that the best science and technology are used for the study and that water management decisions based on the goal of protecting public health and the environment.

National Water Research Institute Panelists



Discipline:
Microbiology

Dr. Channah Rock, Ph.D. (Panel Chair) Channah Rock serves as a Water Quality Extension Specialist and Associate Professor in the Department of Soil, Water, and Environmental Science at the University of Arizona. Her research interests include microbiology, molecular biology, and wastewater treatment. She evaluates water quality for the protection of public health and promotes water reuse as a safe and practical resource. Her background in both microbiology and civil and environmental engineering has focused her work on understanding the factors that influence pathogens' survival through water treatment and their persistence in the environment. Dr. Rock received a B.S. in Microbiology from New Mexico State University and an M.S. and Ph.D. in Civil and Environmental Engineering from Arizona State University. She conducted postdoctoral research at the U.S. Department of Agriculture's Agricultural Research Service.



Discipline:
Toxicology

Michael Dourson, Ph.D., DABT, FATS, FSRA. Michael Dourson is Professor of Environmental Health in the Risk Science Center at University of Cincinnati College of Medicine. Before this position, he founded the Toxicology Excellence for Risk Assessment Center (TERA) in 1995 and served as director and/or president for more than 20 years. He also has held numerous leadership positions during 15 years of service with the U.S. Environmental Protection Agency. He has won several awards including four bronze medals at EPA, the Arnold J. Lehman award from the Society of Toxicology, and the International Achievement Award by the International Society of Regulatory Toxicology and Pharmacology. He has also been elected as a Fellow of the Academy of Toxicological Sciences and as a Fellow for the Society for Risk Analysis. Dr. Dourson has co-published more than 150 papers on risk assessment methods or chemical-specific analyses. He has co-authored well over 100 government risk assessment documents (including guidance texts), delivered more than 150 invited presentations, and chaired more than 150 sessions at scientific meetings and independent peer reviews. He was elected to multiple officer positions in the American Board of Toxicology (including its President), the Society of Toxicology (SOT), and the Society for Risk Analysis, and is the President of the Toxicology Education Foundation. In addition to numerous appointments on government panels, such as EPA's Science Advisory Board, he is also a media resource specialist in risk assessment for the SOT, and a member on the editorial board of several journals. He holds a B.A. from Wittenberg University and a Ph.D. in Toxicology from University of Cincinnati.

National Water Research Institute Panelists



*Discipline:
Chemistry*

Dr. Joseph Cotruvo, Ph.D., BCES. Joe Cotruvo is president of Joseph Cotruvo & Associates, an environmental and public health consulting firm in Washington, DC. He is active in the World Health Organization (WHO)/National Science Foundation (NSF) International Collaborating Centre for Drinking Water Safety and Treatment. Previously, he served as director of the Criteria and Standards Division of the US Environmental Protection Agency (EPA) Office of Drinking Water, where his organization developed the Drinking Water Health Advisory System and numerous National Drinking Water-Quality Standards and Guidelines. He was also director of the EPA's Risk Assessment Division and a former vice president for Environmental Health Sciences at NSF International. He is a member of WHO Drinking Water Guidelines development committees has led studies on bromate metabolism through the American Water Works Association Research Foundation and on recycled water contaminants for the WaterReuse Foundation. He was chairman of the Water Quality and Water Services Committee of the Board of Directors of the District of Columbia Water and Sewer Authority. Dr. Cotruvo is also chair of the WaterReuse Association National Regulatory Committee. He received a B.S. in Chemistry from the University of Toledo and a Ph.D. in Physical Organic Chemistry from Ohio State University.



*Discipline:
Hydrogeology;
groundwater
recharge*

Dr. Gordon Thrupp, Ph.D., PG, CHG. Gordon Thrupp is a senior hydrogeologist at Geosyntec Consultants in San Francisco and has more than 30 years of experience providing hydrogeological consulting services. For numerous projects he has developed groundwater flow models, designed wells and hydraulic testing programs, and directed environmental investigations. Dr. Thrupp has developed, applied, and reviewed groundwater models for many water resources and engineering design applications, including evaluating groundwater resource capacity; assessing hydraulic connection between surface water and groundwater; investigating potential for contaminant migration and sea water intrusion; designing hydraulic containment alternatives; locating and designing municipal supply wells and coastal margin subsurface intakes; designing sewage and groundwater infiltration basins; assessing impact of open-pit mines on groundwater systems; and predicting groundwater seepage rates into excavations for dewatering feasibility studies. He received a B.S. in Geology from Stanford University and a Ph.D. in Earth Sciences from University of California, Santa Cruz.

National Water Research Institute Panelists



Dr. Kara Nelson, Ph.D. Kara Nelson is a Professor in Civil and Environmental Engineering at the University of California, Berkeley. Her research program addresses critical issues at the intersection of public health and the environment, with a focus on reducing the threat posed by waterborne pathogens by improving our engineering infrastructure to make it more effective, affordable, and environmentally beneficial. Specific research areas include mechanisms of pathogen inactivation, molecular techniques for pathogen detection, optimization of treatment processes, water reuse, and challenges with providing safe drinking water and sanitation in the developing world. Dr. Nelson has published over 50 articles in peer-reviewed journals, including two invited reviews, and one book chapter. She is the Director of Graduate Education at the National Science Foundation Engineering Research Center for Reinventing the Nation's Urban Water Infrastructure (ReNUWIt), and the faculty leader of the Research Thrust Area on Safe Water and Sanitation at Berkeley Water Center. Dr. Nelson was awarded the Presidential Early Career Award for Scientists and Engineers (PECASE) at a ceremony at the White House in 2004. This award is the nation's highest honor for scientists in the early stages of their career. She received a B.A. degree in Biophysics from University of California, Berkeley, an M.S.E. degree in Environmental Engineering from the University of Washington, and a Ph.D. in Environmental Engineering from University of California, Davis.

*Discipline: Engineering/
Wastewater Treatment*



Jason Dadakis, PG, CHG. Jason is Director of Health & Regulatory Affairs for Orange County Water District (OCWD) in Fountain Valley, California, where he has worked since 2004. He is responsible for managing regulatory compliance for groundwater recharge activities and recycled water projects, including the Groundwater Replenishment System. He also coordinates and directs water quality monitoring programs and studies for surface water, groundwater, and recycled water. He has experience in the planning, development, and use of groundwater models and tracer tests for resource management and transport analysis. Mr. Dadakis received a B.A. in Earth Sciences from Dartmouth College and an M.S. in Hydrology from the University of Arizona. He is a licensed professional geologist and certified hydrogeologist in the State of California.

*Discipline: Utility Representative
with WQ and Monitoring*

River Water w SC

What about other solutions
people talk about?

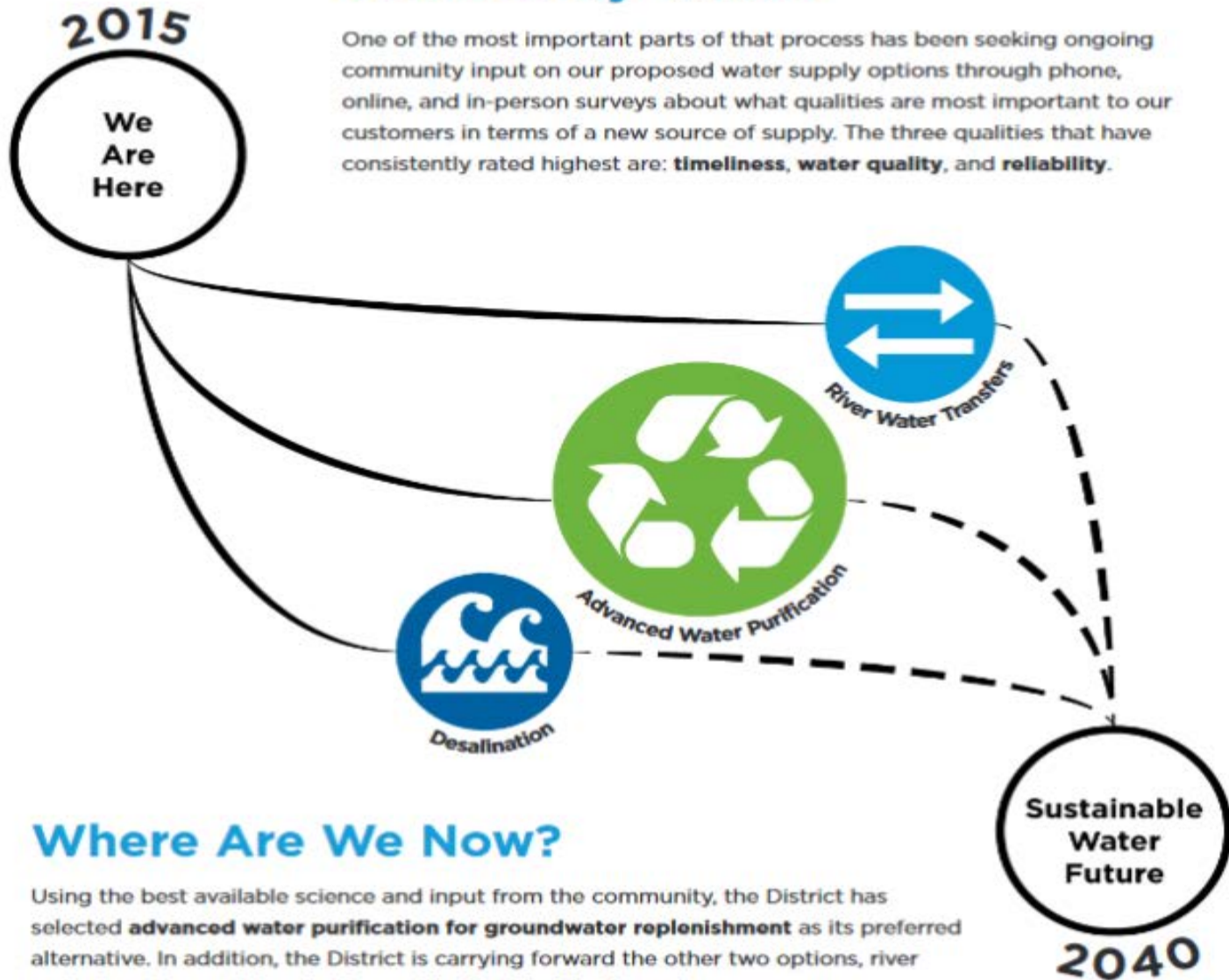


Taking Action Toward Developing New Supplies

In the fall of 2013, after seven years of evaluating and pursuing a joint seawater desalination project, our partner agency, the City of Santa Cruz, decided to step back from the project, which forced the District to restart the process of evaluating supplemental water supply options.

Community Values

One of the most important parts of that process has been seeking ongoing community input on our proposed water supply options through phone, online, and in-person surveys about what qualities are most important to our customers in terms of a new source of supply. The three qualities that have consistently rated highest are: **timeliness**, **water quality**, and **reliability**.



Where Are We Now?

Using the best available science and input from the community, the District has selected **advanced water purification for groundwater replenishment** as its preferred alternative. In addition, the District is carrying forward the other two options, river water transfers and desalination, until a final decision is made.

**COOPERATIVE WATER TRANSFER PILOT PROJECT FOR GROUNDWATER RECHARGE
AND WATER RESOURCE MANAGEMENT
BETWEEN CITY OF SANTA CRUZ AND SOQUEL CREEK WATER DISTRICT**

The parties to this Agreement are the CITY OF SANTA CRUZ, hereafter referred to as "CITY", and the SOQUEL CREEK WATER DISTRICT", hereafter referred to as "DISTRICT".

RECITALS

- A. The CITY of Santa Cruz is a charter city which owns and operates a municipal water system in the City of Santa Cruz and in portions of the County of Santa Cruz adjoining the District water system.
- B. The DISTRICT is a special district which operates a water system, adjacent to the eastern service boundary of the CITY, and provides water service to a significant portion of mid-Santa Cruz County.
- C. A shared groundwater basin that the DISTRICT relies upon for a significant portion of its water supply, and from which the CITY obtains a small portion of its water supply, has been in a state of overdraft since the 1980s and is at risk of additional seawater intrusion.
- D. The DISTRICT and the CITY cooperatively manage groundwater in the over-drafted basin and would benefit from this agreement.
- E. The CITY and the DISTRICT have established three metered interties located at the DISTRICT's O'Neill Ranch well site, at Jade Street and at Bain Street.
- F. During the winter and spring, the CITY may have available surface water from its pre-1914 North Coast water rights that could be treated and delivered to the DISTRICT for purchase.
- G. Purchasing and using this treated surface water to meet some part of the DISTRICT's demand would enable the DISTRICT to reduce its groundwater pumping, reduce the potential for accelerating seawater intrusion, and contribute to the beginnings of a longer term process to ameliorate the overdraft condition of the groundwater basin that impacts both entities and other pumpers of groundwater from the Soquel-Antos basin.



City of Santa Cruz

Water Supply Advisory Committee



On Soquel Drive

(5100 block, southern side of the street)



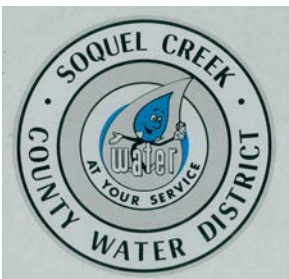
SqCWD
Groundwater Well
and Treatment
Facility (original well pre-
1960)



PG&E Electric
Sub station (not part of
SqCWD)



SqCWD Headquarters Office and Corporation Yard
(Built in 1971)



The Water District has been a responsible neighbor in the area for over 45 years