Board of Director’s Special Town Hall Meeting

Veterans Hall
September 7, 2019
10:00 AM – 1:00 PM
Welcome!

Agenda

- Public Comment
- Historical Timeline
- Planning/Engineering
- Cambria Water System
- Next steps – CDP Process
- Questions & Answers
- Concluding Remarks
Public Comment
1990
CCSD closes residential wait list and begins exploring alternative water sources, including groundwater recharge and desalination

2000
Baseline Water Supply Analysis (Kennedy/Jenks)

2001 - 2002
Resolution 02-2002 Adopting Findings Supporting Declaration of Water Code 350 Water Shortage Emergency

2006
Initial Build-out Reduction Plan (subsequently revised)

2008
Army Corps of Engineers partners with CCSD; assists with Water Supply Alternatives Analysis

2010 - 2012
Water Master Plan Environmental Impact Report
HISTORICAL TIMELINE

2013
California records driest year since 1895

2014
CA governor declares State of Emergency and suspends environmental review procedures
CCSD board declares Stage 3 Emergency and authorizes Emergency Water Supply project

2015
Emergency Water Supply project becomes operational
2015 Urban Water Management Plan released

2016
Drought Emergency downgraded to Stage 2
Brine Evaporation Pond stormwater intrusion; RWQCB issues Cease & Desist Order and directs pond closure

2017
Pond closure completed Spring 2019
CCSD board directs modifications to Coastal Development Permit application

2018-2019
CCSD board directs modifications to Coastal Development Permit application
Planning/Engineering

- Baseline Water Supply Analysis (2000)
  - Kennedy/Jenks report determines groundwater supply not adequate to provide a 90-95% level of reliability
  - Projected water demands call for approximately 600 AF in supplemental water
  - MTBE contamination factored into supply analysis

- Water Master Plan (2008)
  - Seawater Desal
  - Recycled Water
  - Water Demand Management

- USACOE Water Supply Alternatives Study (2013)
  - 28 water supply alternatives studied
  - Screened to 4 alternatives with full concepts developed
    - San Simeon Creek Road Brackish Water
    - Whale Rock Reservoir
    - Shamel Park Seawater
    - Morro Bay Shared SWRO

  - Water Shortage Contingency Plan
  - Baselines and Targets
  - Demand Management Measures
Current Water License Allowances

- 799 AFY from San Simeon
  - 370 AFY Dry Season Max
- 218 AFY from Santa Rosa
  - 155.3 AFY Dry Season Max
- 1017 AFY Combined Total
  - 525.3 AFY Dry Season Total

AFY = Acre Feet per Year (325,850 gallons)
San Simeon Creek Well Levels
2019/2020 levels to date, 2013/2014 levels and Historic Min, Max, & Average

Average Levels
Maximum Levels
Minimum Levels
2013
2019

Elevation above Sea Level (Feet)

Month

APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
JAN
FEB
MAR
How Water is Delivered
4,033  Service Connections
66.7  Miles of Water Mains
368  Fire Hydrants
4  Tank Sites
5  Potable Water Production Wells
Cambria's Wastewater Disposal

- 0.5 mgd wastewater treated at WWTP
- Effluent sent to percolation ponds adjacent to San Simeon Creek
- Acts as barrier to seawater intrusion
- All water ultimately ends up in ocean
- Emergency project recovers water for indirect potable reuse
Project Overview

SUPPLY CONCEPT
Advanced Water Treatment

Uses 3-step process like other California Indirect Potable Reuse projects

Built on previous projects for more efficient and flexible facility
Highly treated water flows toward well field with minimum 60 day residence time

Highly treated water recharged to basin

Recharge water flows toward percolation pond to maintain protective gradient

Protective hydraulic divide maintained by recharge well

Lagoon maintenance discharge of ultrafiltered water

9P7 pumps basin water that includes brackish water from downgradient and percolated secondary treated waste water

Basin inflow
Micro Filtration Units

Photo by AzureFire
RO Filtration Units
Next Steps: A Five-Step CDP Process

CCSD Board of Directors Approves Final Project Description

SLO County Planning Commission

California Coastal Commission Substantial Issues?

SLO County Board of Supervisors

California Coastal Commission De-Novo Review
Fiscal & Schedule Considerations

Board Priorities
✓ Accountability
✓ Transparency
✓ Committee Work

Evaluating $\$\$
$13$ million cost to date
$1/3$ grants; $2/3$ loan
Ongoing audit

Bartle Wells Rate Analysis
Budgets
Audits

Staff will be developing a schedule of work for the October Board of Directors meeting.
Concluding Remarks

➢ Today’s Accomplishments
  ➢ Information
  ➢ Understanding

➢ Next Steps
  ➢ Board recommendation – R&I Committee with Consultant & Staff
  ➢ Project Description
  ➢ Possible Board Action in October or November
Questions & Answers
Thank You.

Aerial photography courtesy of AzureFire
www.azurefire.com

❖ https://www.cambriacsd.org/swf
❖ Follow-up Town Hall to be scheduled
❖ Today's Presenters:
  ❖ Board President, David Pierson
dpierson@cambriacsd.org
  ❖ Strategic & Organizational Advisor, Paavo Ogren
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  ❖ Management Analyst, Melissa Bland
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  ❖ Chief Plant Operator, Jim Green
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