• What is Pure Water Monterey?
• How did we get here?
• Components of Pure Water Monterey
• Overview of the Processes
• What’s Happening Today
• Surprise(s)!!
• Advanced purified recycled water project to address water supply needs

• Provide 3,500 acre feet/year (AFY) of advanced purified recycled water for injection into the Seaside Groundwater Basin

• Utilize unused water for beneficial use (agriculture & urban)
How Did We Get Here?

APRIL 2012

• Cal Am submits Application to CPUC for a Water Supply Project
  • Pure Water Monterey listed as a Project Variant
  • CPUC to PWM - Need to Complete 9 Criteria in order to be deemed a viable project

Criterion 1: Final EIR
Criterion 2: Permits
Criterion 3: Source Waters
Criterion 4: Water Quality and Regulatory Approvals
Criterion 5: PWM Project Schedule Compared to Desalination Schedule
Criterion 6: Status of PWM Project Engineering
Criterion 7: PWM Project Funding
Criterion 8: Reasonableness of WPA Terms
Criterion 9: Reasonableness of the PWM Project Revenue Requirement
How Did We Get Here?

MAY 2013
• Pure Water Monterey Notice of Preparation for Environmental Impact Report (EIR)

OCTOBER 2015
• Certified EIR

SEPTEMBER 2016
• Water Purchase Agreement with Cal Am and MPWMD

NOVEMBER 2016
• Division of Drinking Water Approved Engineering Report

MARCH 2017
• Secure a loan with State Revolving Fund (1% for 30 years plus $15M in grant)

OCTOBER 2017
• Started project construction
Advanced Water Purification Facility

Source Water Diversion Structures

4 Components to PWM

Conveyance Pipeline

Injection Wells & Appurtenances
PWM Source Waters

Proposed Daily Source Water Percentages

- Wastewater – 67%
- Ag Wash Water – 17% *
- Blanco Drain – 12.5% *
- Rec Ditch – 4% *

* As Needed
Blending of Sources then Primary & Secondary Treatment

- Urban Storm/Runoff
- Salinas Industrial Waste Water
- Ag. Drainage

**M1W Wastewater**

**Primary Treatment**
- Screening
- Primary Sedimentation
- Biological Trickling Filters
- Bio-flocculation

**Secondary Clarification**

**Secondary Effluent**

- To existing tertiary treatment
- To Advanced Water Purification Facility (AWPF)
- Unused water to Ocean Outfall
Advanced Purification Treatment Processes

- Treated Source Waters
- Ozone Treatment
- Membrane Filtration
- Reverse Osmosis
- UV Disinfection and Hydrogen Peroxide
Injection into the Seaside Basin

- M1W Regional Treatment Plant
- AWPF & PWPS
- Purified Water Reservoir
- Purified Water Injection Facilities
- Ocean Outfall
- Marina, CA
- Seaside Groundwater Basin

Flow diagram showing water treatment and injection processes.
What is Happening Today!
Construction Progress

Conveyance Pipeline
MCWD lead

Blanco Drain
Pump Station

Seaside Groundwater Basin
Injection Wells
Construction Progress

Reclamation Ditch
Pump Station

Advanced Water
Purification Facility
Surprises – (Not the Good Kind)

- Cash Flow
- Turnover
- Contingencies
- PWM Expansion Feasibility Inquiry
Questions