

Pure Water Monterey Update

Monterey One Water

Nor Cal Chapter WateReuse • August 24, 2018 Mike McCullough, Monterey One Water

Agenda

- 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)!!



Pure Water Monterey

- 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





4 Components to PWM

Conveyance Pipeline

Injection Wells & Appurtenances

Agricultural Drainage Water

Agricultural Wash Water



PWM Source Waters



Secondary Treated Wastewater



Urban Storm Water Runoff

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



Advanced Purification Treatment Processes



Injection into the Seaside Basin



What is Happening Today!



Construction Progress





Pump Station

Injection Wells

Construction Progress



Surprises – (Not the Good Kind)



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

Blanco Drain/Rec Ditch AWPF Conveyance Pipeline WPh 1 WPh 2 Conveyance Total

Questions

