

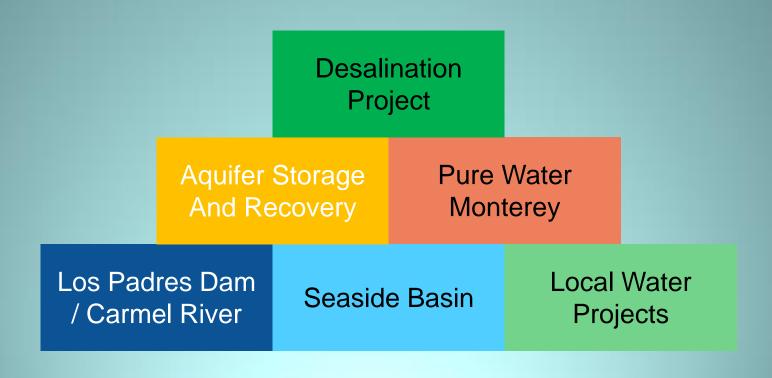


General Manager's Report Item 14:

Update on Development of Water Supply Projects

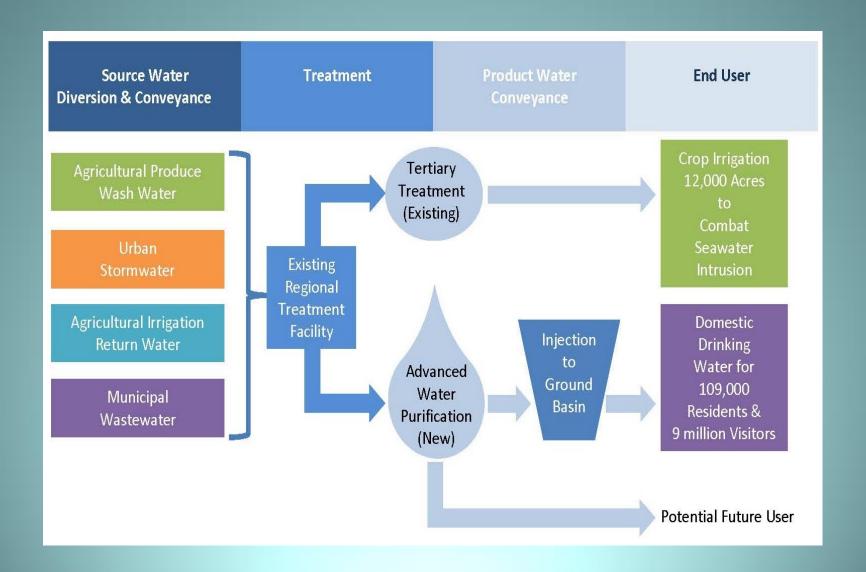
February 22, 2017 David J. Stoldt

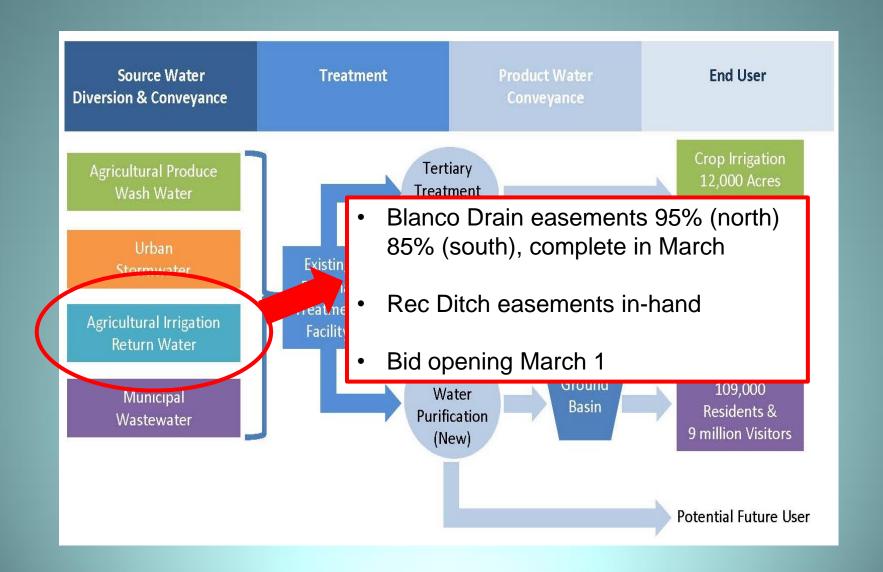
The Water Supply Portfolio

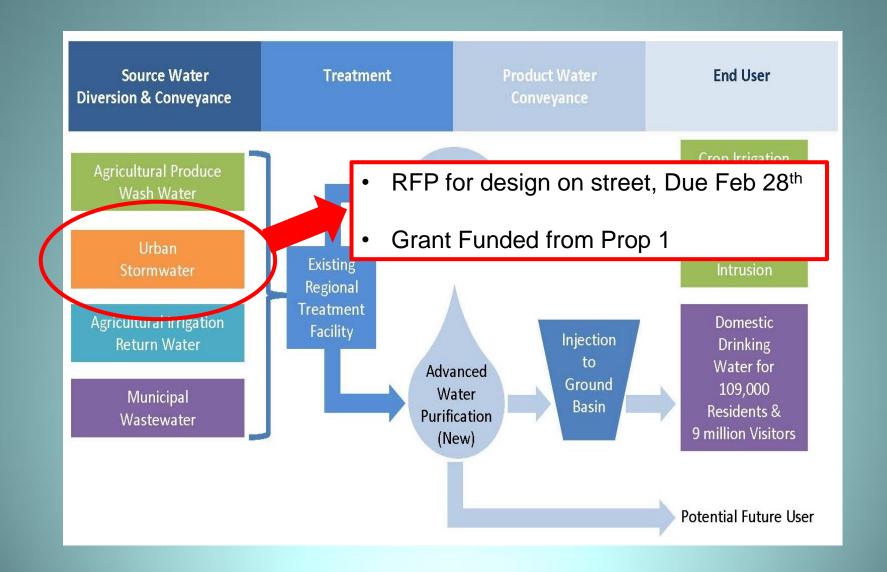


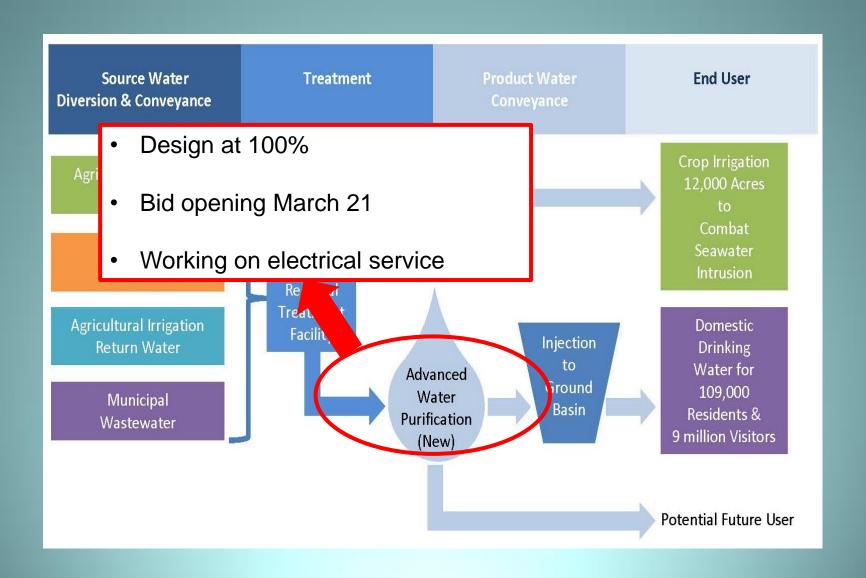
Project Sizing

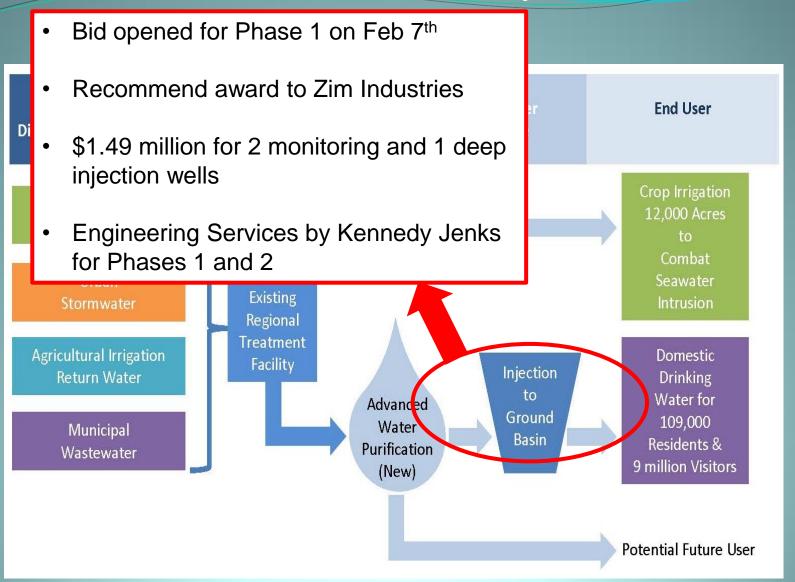
Demand	Supply
13,290 AF average customer demand 500 AF for economic recovery 325 AF for Pebble Beach buildout 1,181 AF for legal lots of record 15,296 AF total demand	3,376 AF legally from Carmel River (2017) 1,474 AF legally from Seaside Basin (2021) (700) AF Cal-Am intends to leave in the Seaside Basin for recharge for 25 years 94 AF available from Sand City long term 1,300 AF assumed available from ASR 3,500 AF from Pure Water Monterey 6,252 AF from Desalination Plant 15,296 AF total supply

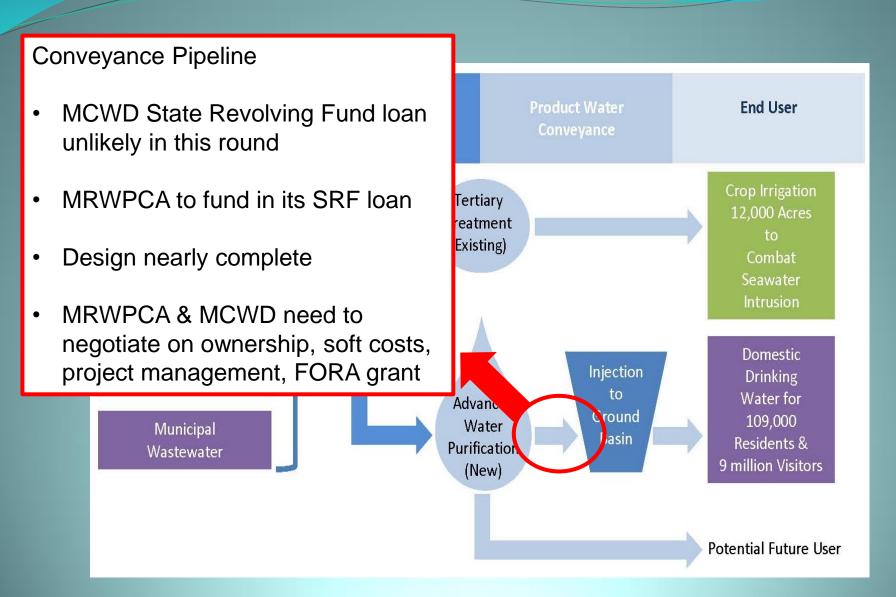












Desalination Plant and Pipeline

- DEIR comments due February 27th
- Addenda to ASR and Pure Water Monterey EIRs for pipeline realignment
- Costs and Expenditures to Date (12-31-16)

Intake System and Return Facilities: \$79M (24% spent)

Desalination Plant: \$115M (14% spent)

Pipeline Facilities: \$128M (13% spent)

Pre-Construction Cost*: \$8M (100% spent)

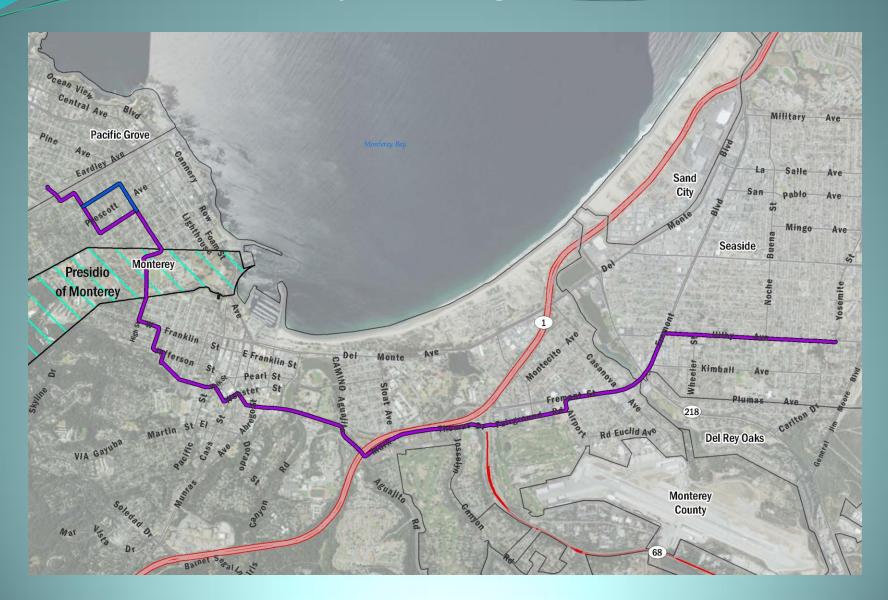
NOTE: These figures are based on a 6.4 MGD desalination facility. Pre-construction costs are included in the \$322-million project total.



Cal-Am Monterey Pipeline



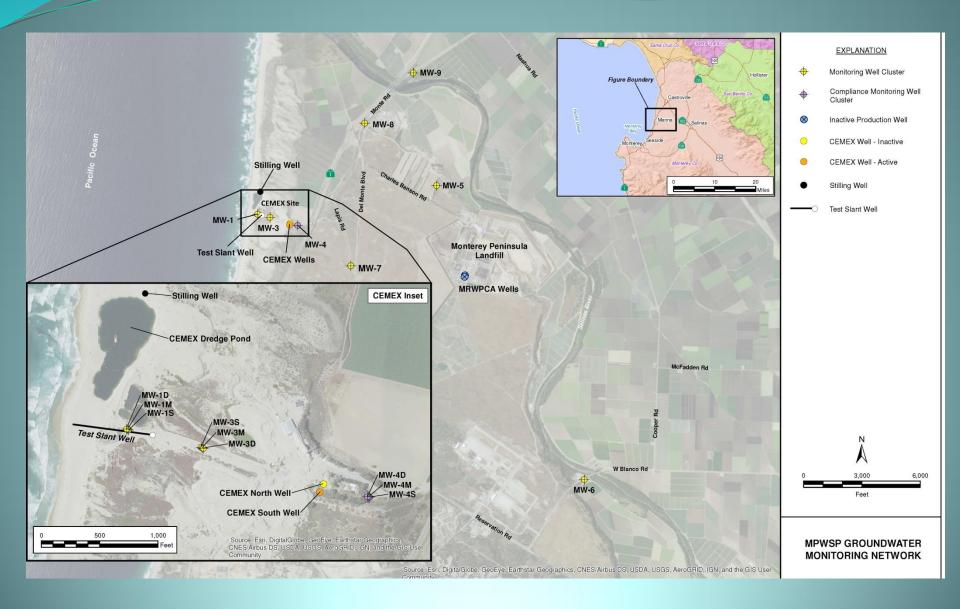
Pipeline Realigment



Pipeline Realignment



Test Slant Well



Test Slant Well

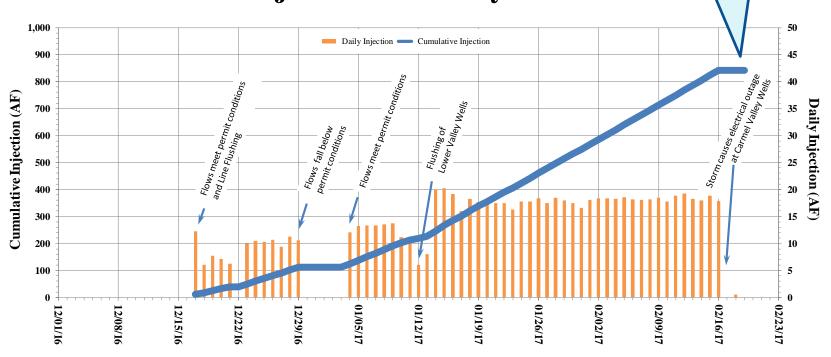
- Groundwater elevation and TDS changes in the compliance well (MW-4S and MW-4M) show no measurable impact that can be attributed to test well pumping
- Well has periodically and unexpectedly stopped pumping due to a PG&E low voltage issues in the immediate area
- The well has been off as a precaution during recent storm events. For example, the well remained off from December 24, 2016 through January 11, 2107
- 6-week rolling average shows 8% fresh water ratio

Aquifer Storage and Recovery



842 AF Thru 2/18/17





Aquifer Storage and Recovery Seaside Middle School Last Storm



Aquifer Storage and Recovery - New Sign Last Fall



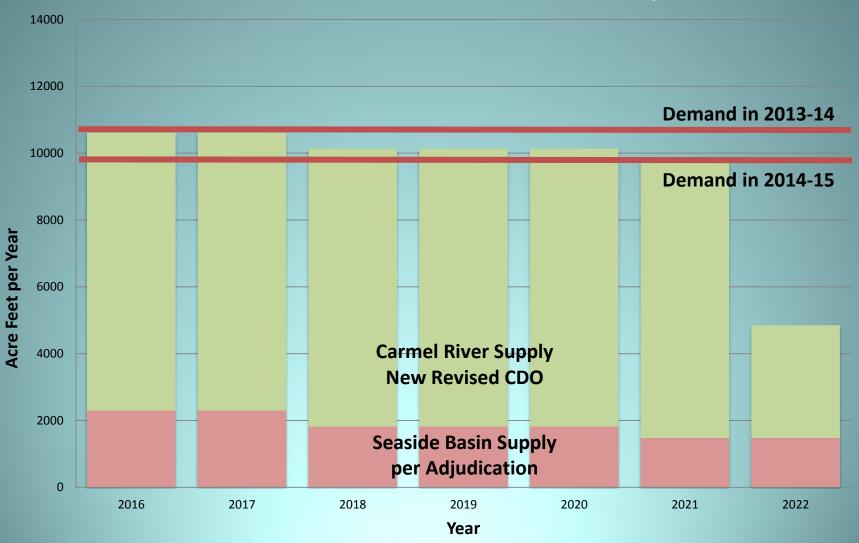
Cease and Desist Order



Legally Available Water Supply in MPWMD Territory

Compared to

Consumer Water Demand in MPWMD Territory



Condition 2 Guidance

Cal-Am shall not divert water from the Carmel River for new service connections or for any increased use of water at existing service addresses resulting from a change in zoning or use.

Meeting held December 13th

Proposal made January 3

Much back-and-forth since

Local Water Projects

Project	Status
Pacific Grove \$200,000	First \$100,000 spent; Anticipate construction start this fall; Will save 88 AFY
Old Del Monte Golf Course \$80,000	Two wells completed; Pebble Beach Company put storage project on temporary hold
Monterey Regional Airport \$30,000	Completed study; Identified 104 AFY of non-potable supply; Will attempt to find users in FY 2016-17
City of Monterey \$85,000	Storm water capture study; No expenditures to date; Trying to obtain state grant moneys
City of Seaside \$106,900	Laguna Grande non-potable well; No expenditures to date
Monterey County Fairgrounds \$75,000	Agreed to forego project

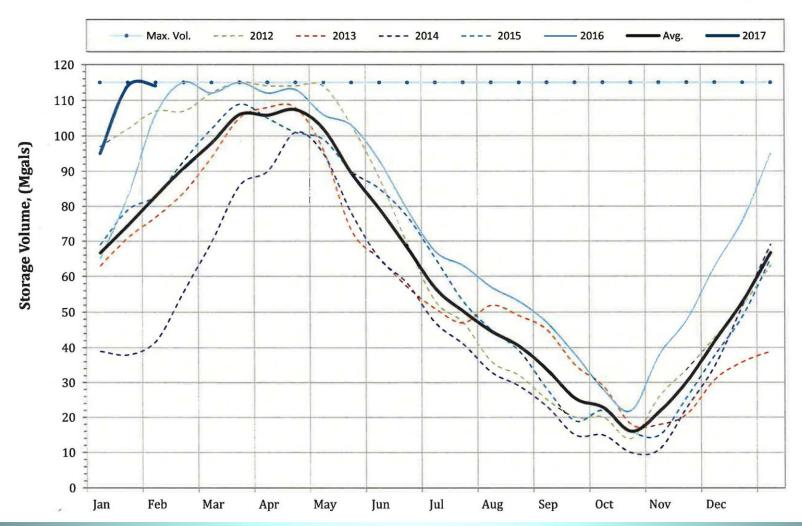
Malpaso (Odello) Water

- 80 AF available
- 22.84 AF sold thru 12/31/17
- 112 separate purchases
- 1.052 AF have come to District for permits

Reclamation Project

Forest Lake Reservoir Storage Volume Current vs Historic

Current Volume: 114

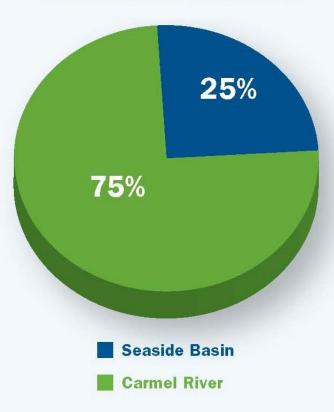


Reclamation Project – Recycled Water Deliveries

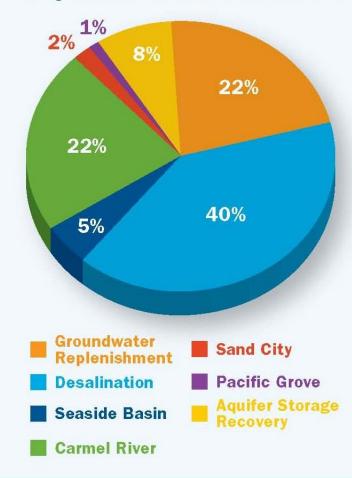
2016 Calendar Year	5 Year Average	21 Year Average
929 AF	978 AF	983 AF

Changing Sources of Supply on the Monterey Peninsula

Traditional Sources



Proposed Water Sources



The Water Supply Project will diversify the Monterey Peninsula's water supply portfolio. These new sources of water will be sustainable and help protect against drought while also protecting the natural resources of the Carmel River.