



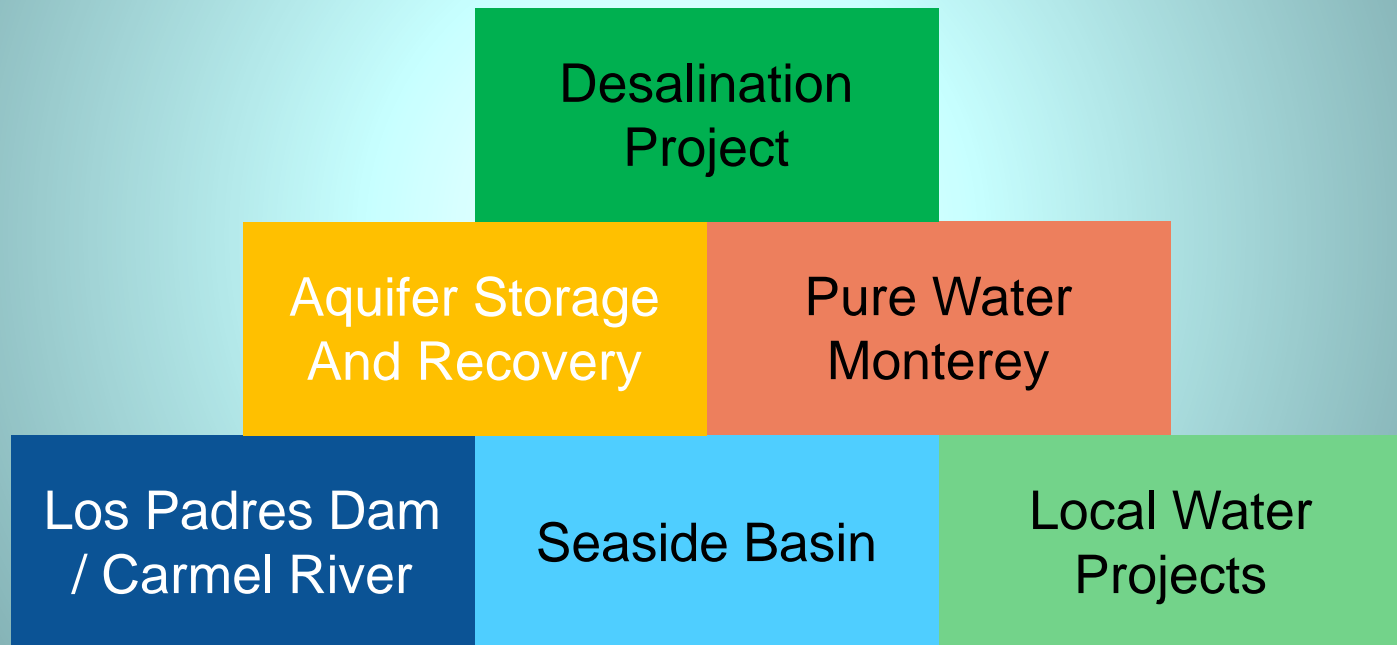
# General Manager's Report

## Item 14:

### Update on Development of Water Supply Projects

*April 16, 2018*  
*David J. Stoldt*

# The Water Supply Portfolio



# Project Sizing

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

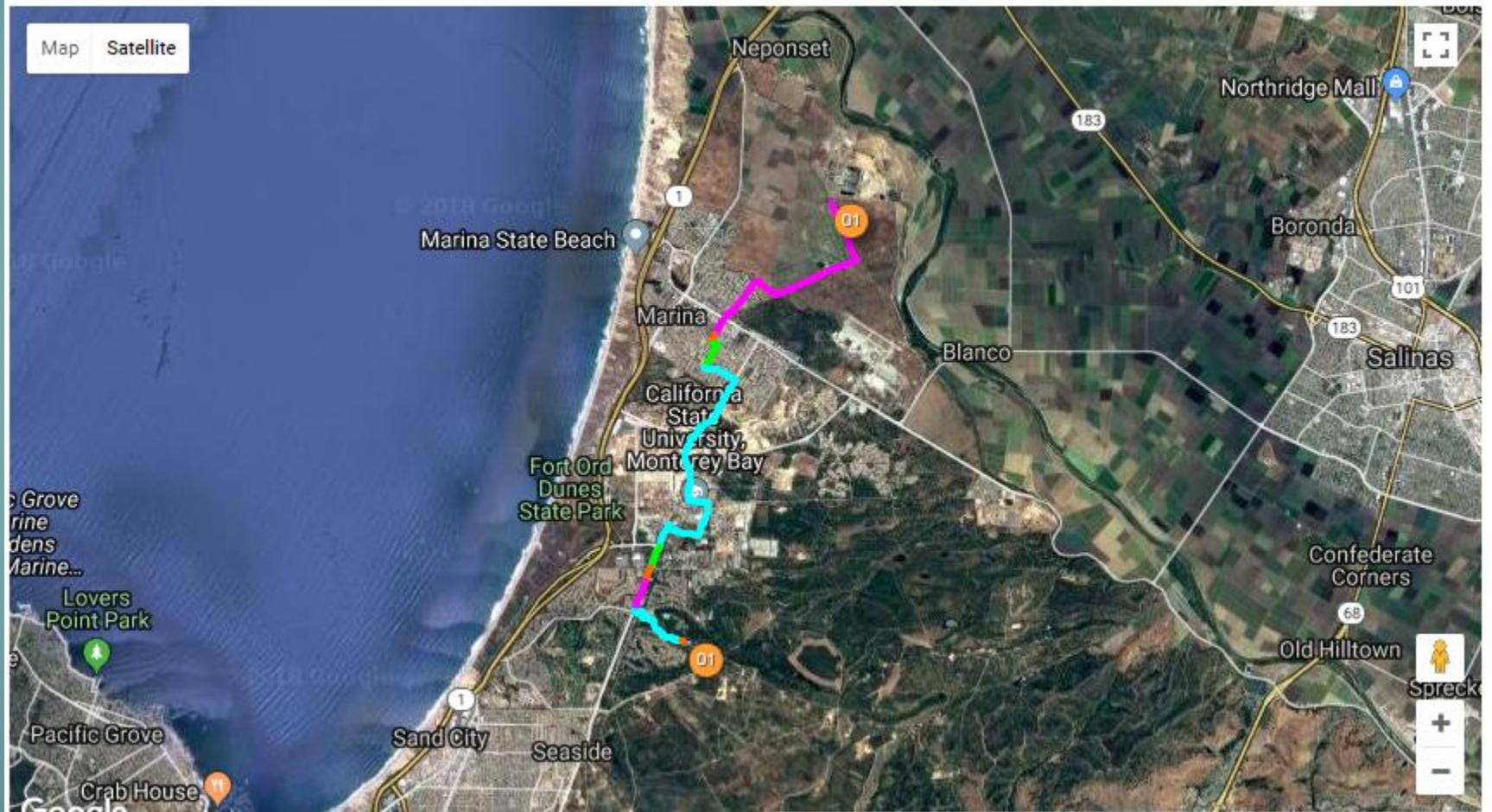
# Pure Water Monterey

- All source water projects and easements in process
- Advanced Water Purification Facility under construction
- Conveyance pipeline (see next page)
- Injection wells: Phase 1 complete; Phase 2 bid awarded
- Change orders and budget remain a concern



# Pure Water Monterey Pipeline

– Prior to construction – 2 Weeks look ahead – Under Active/Ongoing Construction – Complete



## Pure Water Monterey Expenditures

	<b>Expenditures from 2006 - FY 16/17</b>	<b>FY 2017/18 Approved Budget</b>	<b>Costs to Date FY2017/18</b>	<b>FY 2017/18 Costs during February 2018</b>
Combined Categories	\$23,100,108			
Advanced Water Purification		\$31,197,000	\$8,348,473	\$4,304,963
Source Water Facilities		7,068,655	3,059,544	826,143
Injection Wells-Phase I		1,371,000	1,389,122	18,820
Injection Wells-Phase II		3,101,000	452,258	27,930
Pipeline Conveyance System		26,083,000	5,258	0
<b>TOTALS</b>	\$23,100,108	\$68,820,655	\$13,254,655	\$5,177,856

# Pure Water Monterey Funding

## Funding and Reimbursements

Organization	Funding 2006 – FY 16/17	FY17/18 Approved Budget	FY17/18 Amounts Billed <sup>(1)</sup>	FY 17/18 Amounts Received
General Fund	7,204,996	-	-	-
Watermaster	100,000	-	-	-
MPWMD	12,233,955	-	-	-
SRF Facilities Grant	74,883	-	-	-
SRF Loan <sup>(1)</sup>	3,336,483	56,187,655	25,922,966	17,874,800
Prop. 1 Grant - GWR	-	6,711,000	-	-
Prop. 1 Grant - Stormwater	-	1,569,000	276,654	251,801
MCWD <sup>(2)</sup>	-	4,353,000	-	-
BOR Title 16 Feasibility Water SMART Grant / Other Resource	149,791	-	-	-
<b>TOTALS</b>	<b>\$23,100,108</b>	<b>\$68,820,655</b>		

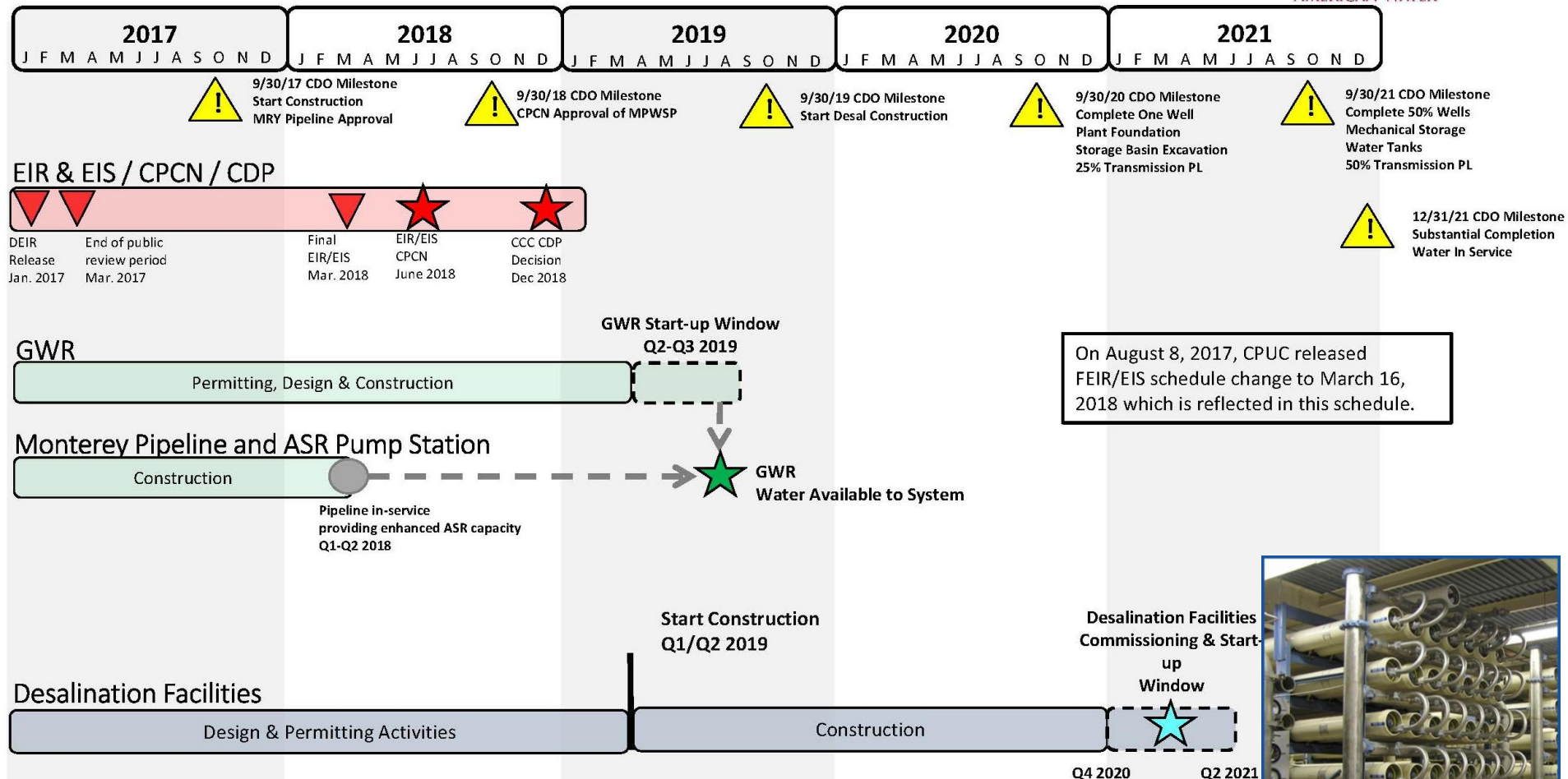


# Pure Water Monterey

- New “Fact Sheets” on Constituents of Emerging Concern (CECs) and Pesticides about to be posted



# Desalination Plant and Pipeline



## Cal-Am Monterey Pipeline





# Pure Water Monterey



----- ~5.5 miles of 36" pipe installed

# Monterey Pipeline

- Installation of the 36-inch pipeline on **Mark Thomas** in front of Monterey Hyatt
- Work on the **Highway 68** pipe bridge will continue at **Old Salinas Highway** and **Fairgrounds Road**
- Pipe bridge side abutments and center column 40-foot deep footing with rebar and concrete have been constructed
- Pair of 125-foot long concrete pre-engineered girders on their way



# Local Water Projects

Project	Status
<b>Pacific Grove</b> <b>\$200,000</b>	Local Water Project complete – Will save 88 AFY / Stormwater study complete – All grants fully utilized;
<b>Old Del Monte Golf Course</b> <b>\$80,000</b>	Two wells completed; Pebble Beach Company put storage project on temporary hold
<b>Monterey Regional Airport</b> <b>\$30,000</b>	Completed study; Identified 104 AFY of non-potable supply; Will attempt to find users in FY 2017-18
<b>City of Monterey</b> <b>\$85,000</b>	Storm water capture study under way
<b>City of Seaside</b> <b>\$106,900</b>	Laguna Grande non-potable well; No expenditures to date; Requests Extension

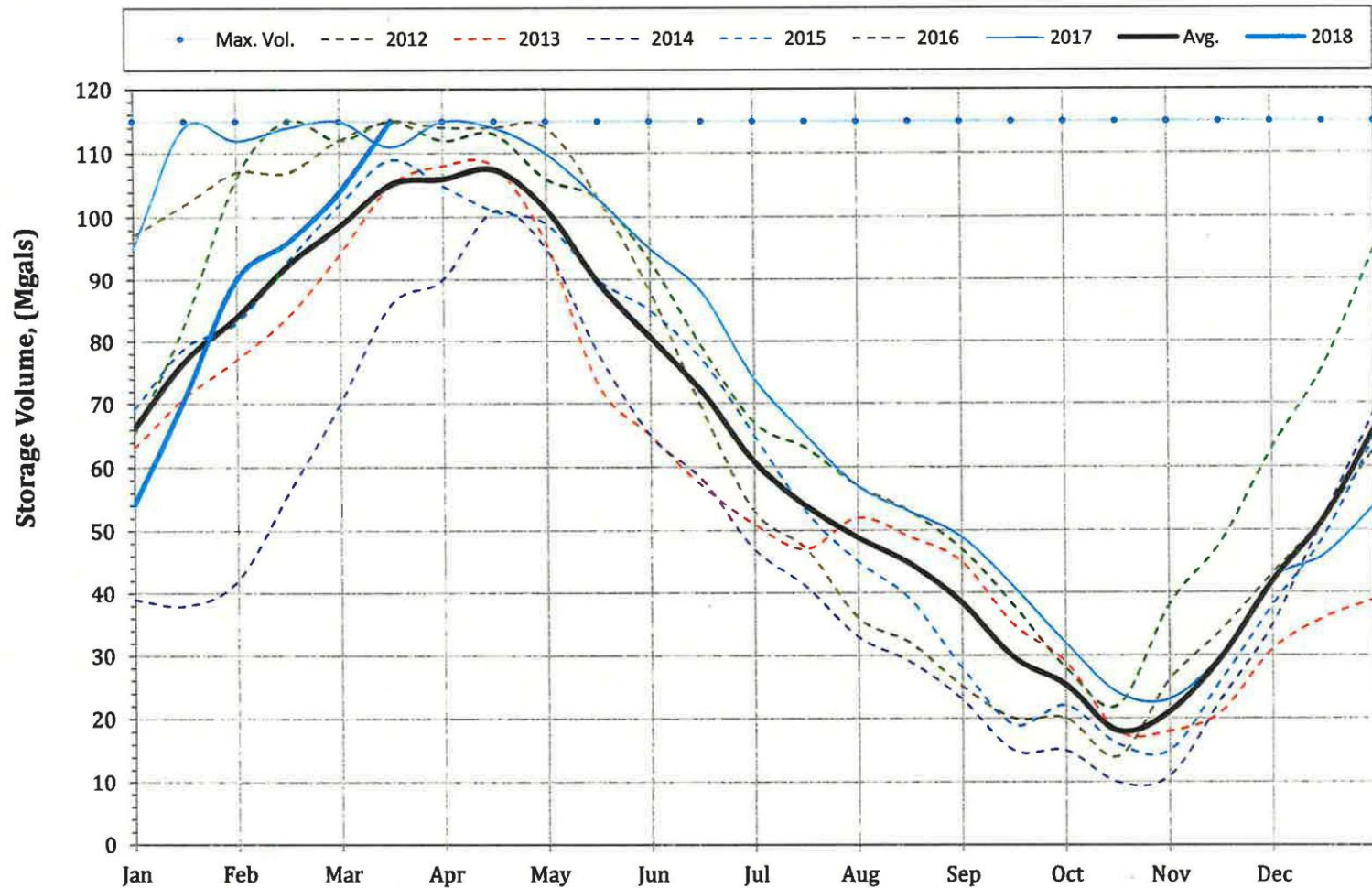
# Malpaso (Odello) Water Thru 12-31-17

Assignments	Water Use Permits	Water Permits
An assignment is the evidence of sale of the water entitlement from Malpaso LLC to the property owner. It is recorded on title to the property.	A water use permit issued by the District acknowledges the entitlement and is filed with the District's property file. Not all entitlement holders execute this step.	When building plans are ready, the District will issue a water permit based on the water available from the entitlement.
To date: 55.81 AF	27.48 AF	8.423 AF
Remaining: 24.19 AF		
Total #: 295	129	63
Residential #: 267		
Non-Residential or Mixed #: 28		

# Reclamation Project

## Forest Lake Reservoir Storage Volume Current vs Historic

Current Volume: 115



## Reclamation Project – Recycled Water Deliveries Potable Water Savings

2017 Calendar Year	5 Year Average	22 Year Average
996 AF	973 AF	950 AF

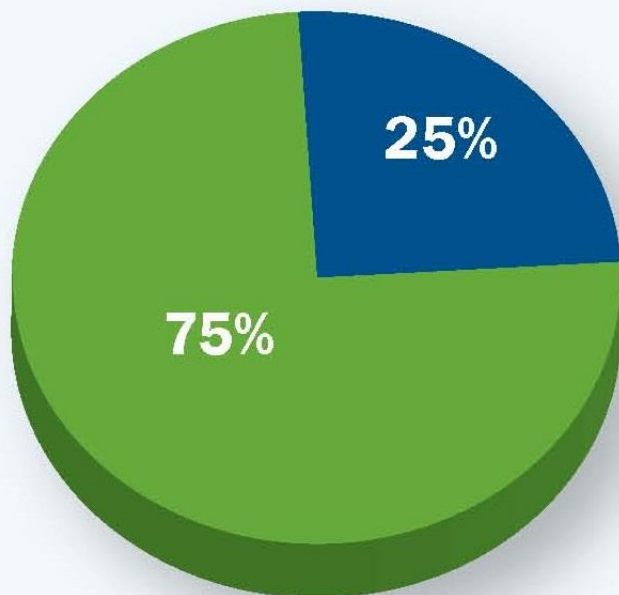


## Other

- ASR covered in previous report
- DeepWater Desal still in negotiation with potential equity partner

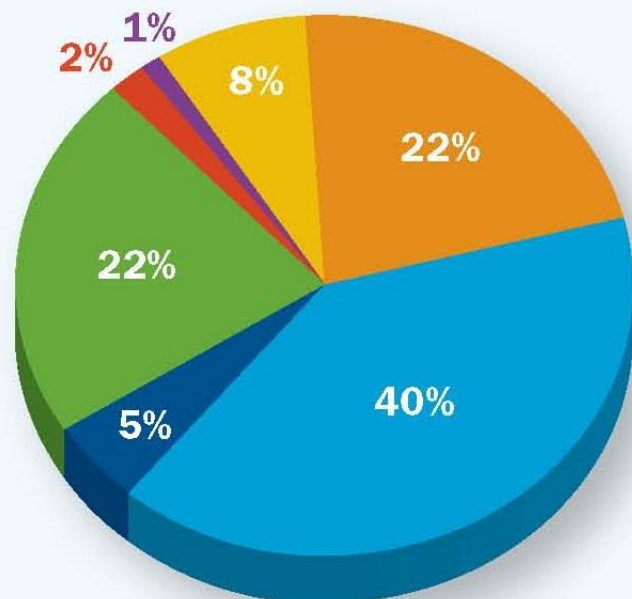
# Changing Sources of Supply on the Monterey Peninsula

## Traditional Sources



■ Seaside Basin  
■ Carmel River

## Proposed Water Sources



■ Groundwater Replenishment  
■ Desalination  
■ Seaside Basin  
■ Carmel River  
■ Sand City  
■ Pacific Grove  
■ Aquifer Storage Recovery

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.