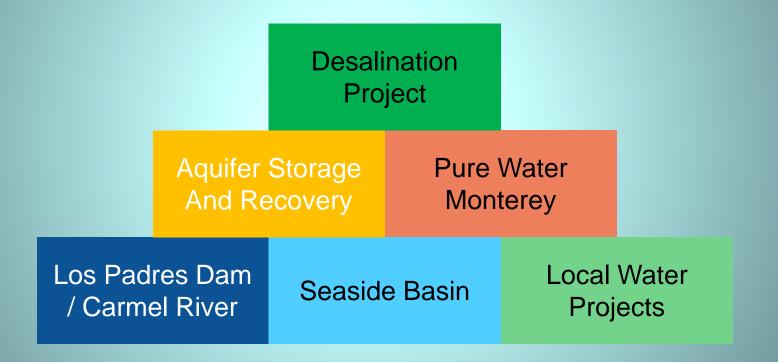




General Manager's Report Item 6:

Update on Development of Water Supply Projects

September 17, 2018 David J. Stoldt **The Water Supply Portfolio**



Project Sizing

Demand	Supply
500 AF for economic recovery1,47325 AF for Pebble Beach buildout(700 Basin1,181 AF for legal lots of record94 A15,296 AF total demand1,303,503,506,25	 76 AF legally from Carmel River (2017) 74 AF legally from Seaside Basin (2021) 74 AF Cal-Am intends to leave in the Seaside n for recharge for 25 years 75 AF available from Sand City long term 70 AF assumed available from ASR 70 AF from Pure Water Monterey 72 AF from Desalination Plant 73 AF total supply

Pure Water Monterey Schedule

Pure Water Monterey Executive Schedule for 9-13-18 RWC Meeting					
ID	Task Name	Duration	Start	Finish	2017 2019 2019 2019 2019 2019 2019 2019 2019
1	Blanco Drain and Reclamatio	n Ditch 448 days	Mon 5/1/17	Thu 1/31/19	· · · · · · · · · · · · · · · · · · ·
2	Blanco Drain Diversion	448 days	Mon 5/1/17	Thu 1/31/19	Blanco
3	Blanco Drain tie-in to RTP F	leadworks 0 days	Wed 11/21/18	Wed 11/21/18	Blanco Drain tie-in to RTP Headworks 🔶 11/21
4	Reclamation Ditch	143 days	Fri 6/29/18	Sat 1/19/19	Reclamation Ditch
5	Rec Ditch tie-in to Salinas S	ystem 0 days	Sun 9/30/18	Sun 9/30/18	Rec Ditch tie-in to Salinas System 🖕 9/30
6	AWPF	492 days	Tue 8/29/17	Sat 8/3/19	AWPF 📮 🔍
7	Construction	462 days	Tue 8/29/17	Thu 6/20/19	Construction
8	AWPF tie-in to Conveyance	Pipeline 0 days	Tue 4/10/18	Tue 4/10/18	AWPF tie-in to Conveyance Pipeline 💊 4/10
9	30-Day Plant Acceptance T	est 30 days	Fri 6/21/19	Fri 8/2/19	30-Day Plant Acceptance Test
10	AWPF Completion	1 day	Sat 8/3/19	Sat 8/3/19	
11	Conveyance Pipeline and Res	ervoir 175 days	Tue 1/9/18	Fri 9/14/18	Conveyance Pipeline and Reservoir
12	Construction	136 days	Tue 1/9/18	Fri 7/20/18	Construction
13	System Hydrotesting	30 days	Mon 7/23/18	Fri 8/31/18	System Hydrotesting
14	Flush and Disinfection	9 days	Tue 9/4/18	Fri 9/14/18	💾 Flush and Disinfection
15	Conveyance System Ready	0 days	Fri 9/14/18	Fri 9/14/18	*9/14
16	Injection Wells Phase 1	170 days	Mon 5/29/17	Fri 1/26/18	Vigitation Wells Phase 1
17	Wells Drilling	129 days	Mon 5/29/17	Sat 11/25/17	Wells Drilling
18	Wells Development & Test	ing 16 days	Sat 11/25/17	Fri 12/15/17	Kells Development & Testing
19	Acceptance Testing	13 days	Fri 12/15/17	Thu 1/4/18	Acceptance Testing
20	IW Ph 1 Completion	1 day	Fri 1/26/18	Fri 1/26/18	TWPh1Completion
21	Injection Wells Phase 2	294 days	Fri 12/22/17	Tue 2/19/19	Injection Wells Phase 2 🐙 🗸 🗸 🗸 🗸 🗸
22	IW Ph 2 Bid and Award	98 days	Fri 12/22/17	Fri 5/11/18	WPh 2 Bid and Award
23	Wells Drilling	175 days	Mon 5/14/18	Fri 1/18/19	Wells Drilling
24	IW's tie-in to Conveyance P	ipeline 0 days	Fri 12/7/18	Fri 12/7/18	IW's tie-in to Conveyance Pipeline 🔶 12/7
25	Wells Development & Test	ing 16 days	Mon 1/21/19	Mon 2/11/19	Kells Development & Testing
26	Acceptance Testing	4 days	Tue 2/12/19	Fri 2/15/19	K Acceptance Testing
27	IWs ready for service	1 day	Tue 2/19/19	Tue 2/19/19	Ws ready for service
	Bla	nco Drain and Reclamation Dit	ch l	Injection	Well Ph 2 Injection Well Ph 1 Summary Conveyance Pipeline Milestone
		VPF		Blanco Dr	ain and Reclamation Ditch Summary 🔻 🔻 Injection Well Ph 2 Summary 🗸 🗸 Injection Well Ph 2 Milestones 🔶 🖤
Date:	Wed 9/5/18 Co	nveyance Pipeline and Reservoi	ir 🛛	AWPF Sur	nmary 🔻 🔻 Blanco Drain and Rec Ditch Milestones 🔶
	Inj	ection Well Ph 1		Conveyan	ce Pipeline and Reservoir Summary 🔻 AWPF Milestones 🔶 +
	Page 1				

Pure Water Monterey Expenditures

	Expenditures from 2006 - FY 17/18	FY 2018/19 Approved Budget	Costs to Date FY2018/19	Change Orders to Date	FY 2018/19 Costs during July 2018
Combined Categories	\$57,619,343				
Advanced Water Purification		\$33,802,728	\$4,477,269	\$580,955.95	\$4,430,055
Source Water Facilities		5,852,953	99,460	\$68,438.23	39,595
Injection Wells-Phase I				\$36,399.02	
Injection Wells-Phase II		11,286,428	173,882	-	124,257
Pipeline Conveyance System		3,325,650	3,092,807	\$103,953.67	3,092,257
TOTALS	\$57,619,343	\$54,267,759	\$7,843,418	\$789,746.87	\$7,686,164

Pure Water Monterey Funding

Funding and Reimbursements				
Organization	Funding 2006 - FY 17/18	FY18/19 Approved Budget	FY18/19 Amounts Billed ⁽¹⁾	FY 18/19 Amounts Received
General Fund	7,204,996	-	-	-
Watermaster	100,000	-	-	-
MPWMD	12,233,955	-	-	-
SRF Facilities Grant	74,883	-	-	-
SRF Loan(1)	31,394,188	\$37,927,666	13,167,679	6,763,972
Prop. 1 Grant - GWR ⁽²⁾	6,098,846	\$8,901,154	-	-
Prop. 1 Grant - Stormwater	362,684	\$2,084,316		
MCWD (3)	-	\$5,354,623	-	-
BOR Title 16 Feasibility Water SMART Grant / Other Resource	149,791	-	-	-
TOTALS	\$57,619,343	\$54,267,759		6,763,972

Desalination Plant and Pipeline



Desalination Plant Schedule

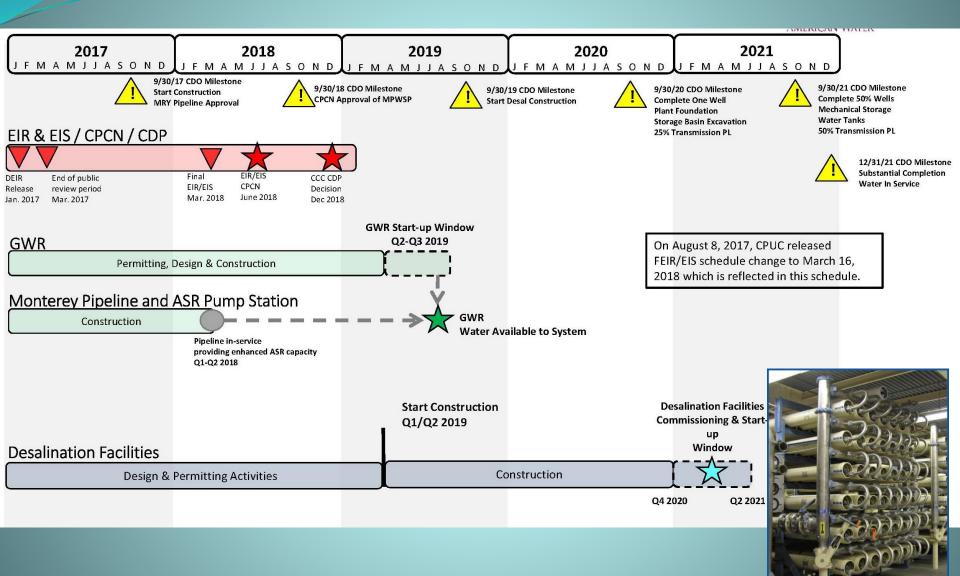
	Item		
August 13	Proposed Decision Issued		
August 22	Oral Arguments		
September 4	Written Comments submitted		
September 13	CPUC adopts Decision		
September 14th or so	CPUC files Notice of Determination (NOD)		
September 30	State Water Board milestone – Issuance of CPCN		
30 Days from NOD	CEQA lawsuit filing period closes		

Cal-Am Monterey Pipeline

7 MILES OF PIPE INSTALLATION OF 36-INCH MAIN UNDERWAY

Pipeline Celebration October 1, 10:00am Eardley Roundabout Pacific Grove

Desalination Plant and Pipeline



Cal-Am MPWSP Expenditures thru June 30, 2018

	Total	Percent	Expended
Project Component	<u>Cost Est</u>	<u>to Date</u>	to Date
Intake and Supply Return	\$ 80,000,000	31%	\$ 24,800,000
Desal Plant	\$ 132,000,000	19%	\$ 23,760,000
Pipelines	\$ 117,000,000	63%	\$ 73,710,000
Pre-Construction	\$ 8,000,000	100%	<u>\$ 8,000,000</u>
	\$ 337,000,000		\$ 130,270,000

Milestones for Potential 1,000 AF Reduction in Limit

- **2016.** CPUC Approves Pure Water Monterey
- 2017. Start Construction of Cal-Am Pipeline

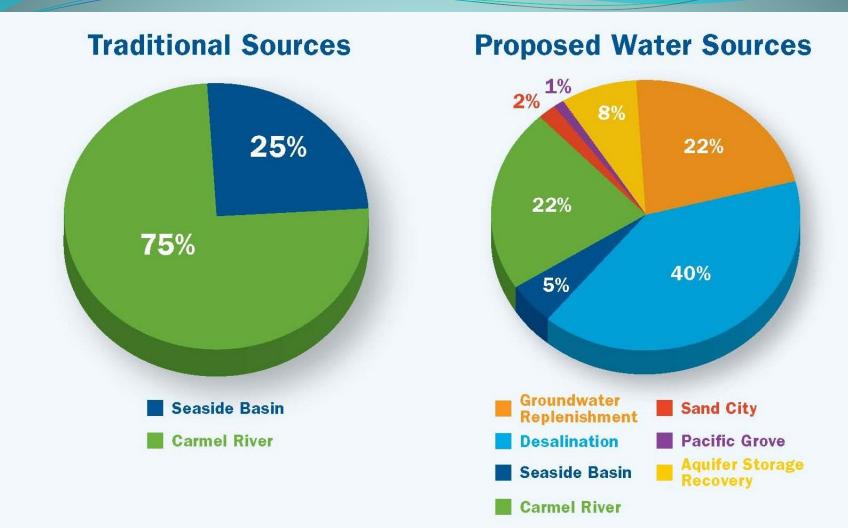
2018. CPUC Approves Desalination Plant

- 2019. Start Construction of Desalination Plant
- 2020. Drill Source Wells
- 2021. Substantial Completion

Malpaso (Odello) Water Thru 7-31-18

Assignments	Water Use Permits	Water Permits
An assignment is the evidence of	A water use permit issued by the	When building plans are ready, the
sale of the water entitlement from	District acknowledges the	District will issue a water permit
Malpaso LLC to the property owner.	entitlement and is filed with the	based on the water available from
It is recorded on title to the	District's property file. Not all	the entitlement.
property.	entitlement holders execute this	
	step.	
To date: 70.05 AF	38.97 AF	9.737 AF
Remaining: 9.95 AF		
Total #: 367	149	85
Residential #: 334		
Non-Residential or Mixed #: 33		

Changing Sources of Supply on the Monterey Peninsula



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.