



Public Hearing Item 12:

Consider Adoption of Oct – Dec 2019
Quarterly Water Supply Strategy and
Budget for California American Water

September 16, 2019, Regular Meeting
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CALIFORNIA AMERICAN WATER

QUARTERLY WATER SUPPLY BUDGET:

Oct – Dec 2019

Quarterly Water Budgets are developed in accordance with:

- SWRCB Orders 95-10, 98-04, 2002-02, and 2016-0016, Seaside Groundwater Basin Adjudication Decision, and District Rule 160 targets.
- ASR Plan – ASR injection is permitted beginning December 1st if in stream flow requirements are met.
- Table 13 Diversion is permitted beginning December 1st if in stream flow requirements are met.
- Pure Water Monterey Operations - will begin to build up operational reserve with the first water available for recovery beginning in the 2nd quarter of WY 2020.

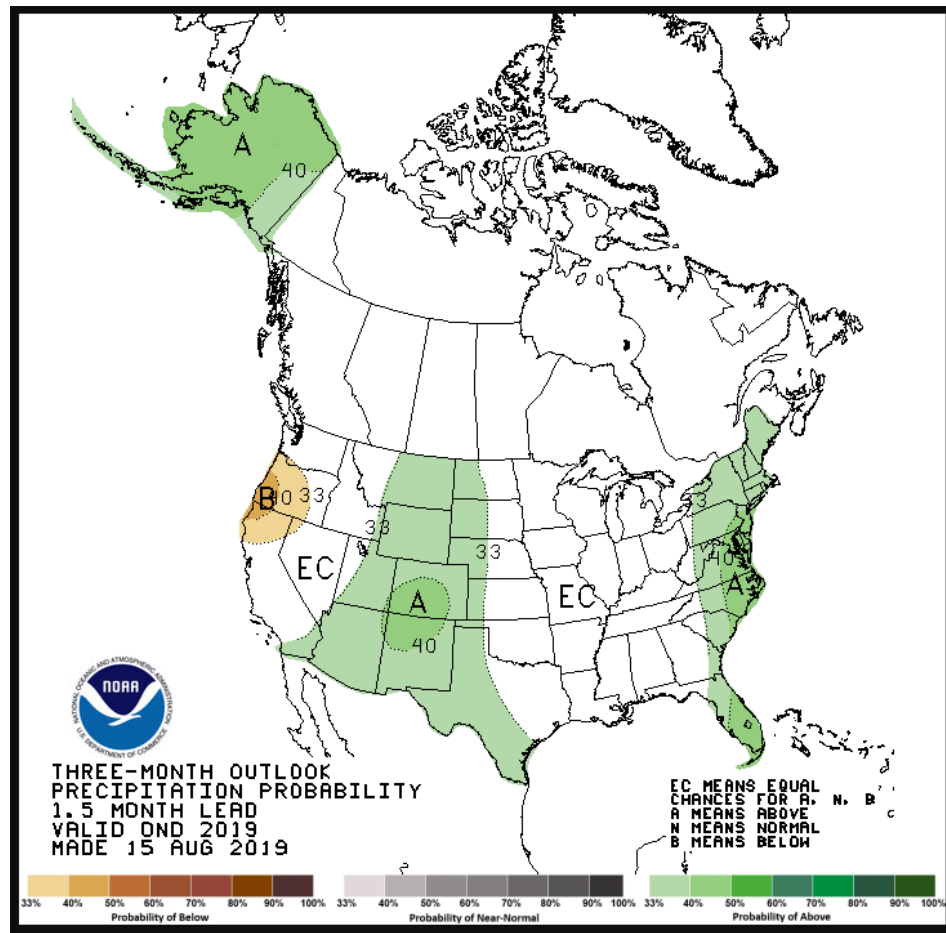
CALIFORNIA AMERICAN WATER QUARTERLY WATER SUPPLY BUDGET: Oct – Dec 2019

- Assumes full utilization of all Seaside Basin Costal Sub-Areas native groundwater during Water Year 2020.
- Assumes Seaside Native production as long as flow remains below 20 cubic feet per second at Don Juan Bridge (Low Flow Period – SBO 2002-02.)
- Assumes ASR injection and Table 13 diversions beginning in December if storms raise flows in the Carmel River above threshold values.
- Developed on September 5, 2019 by Quarterly Water Budget Group. MPWMD, CalAm, the California Department of Fish and Wildlife, and the United States Fish and Wildlife Service the National Marine Fisheries Service.

Rule 160 Monthly Targets to meet Customer Demand

Month	Monthly Target	Year-to-Date at Month-End Target
October	925	925
November	756	1,681
December	700	2,381
January	766	3,147
February	686	3,833
March	799	4,632
April	803	5,435
May	915	6,350
June	913	7,263
July	979	8,242
August	981	9,223
September	907	10,130
TOTAL	10,130	---

Oct to Dec 2019 Precipitation



CALAM QUARTERLY WATER SUPPLY BUDGET: MAIN SYSTEM PRODUCTION TARGETS

Oct – Dec 2019 Proposed Production Targets for the Main System in Acre Feet

SOURCE/USE	MONTH		
	Oct-19	Nov-19	Dec-19
<u>Source</u>	Low Flow	ASR	
<u>Carmel Valley Aquifer</u>			
Upper Subunits (95-10)	0	0	0
Lower Subunits (95-10)	550	380	576
Lower Subunits (ASR)	0	0	145
Upper and Lower (Table 13)	0	0	24
Total	550	380	745
Total to count against CDO	550	380	745
<u>Seaside Groundwater Basin</u>			
Coastal Subareas	350	350	100
ASR Recovery	0	0	0
Sand City Desalination	25	25	25
Total	375	375	125
<u>Use</u>			
Customer Service (95-10 & SGB)	925	755	701
ASR Injection	0	0	145
Customer Service (Table 13)	0	0	24
Total	925	755	870

CALAM QUARTERLY WATER SUPPLY BUDGET: LAGUNA SECA SUBAREA SYSTEMS PRODUCTION TARGETS

Oct – Dec 2019 Proposed Production Targets for the Satellite Systems in Acre Feet

- Allocation for the Hidden Hills, Ryan Ranch, and Bishop systems was reduced to 0 AFY in WY 2018 as required by the Adjudication Decision. CalAm has plans to intertie the Laguna Seca Systems to the Main System and is currently seeking a moratorium on new meters and intensification of use in Laguna Seca.
- Water use in the Laguna Seca Sub-Area for WY 2020 is forecast to be 300 AF. It should be noted that CAW will supply water to the customers of these systems. Accordingly, actual production beyond these production targets will be subject to replenishment assessment by the Seaside Basin Watermaster.

SOURCE/USE	MONTH		
	Oct-19	Nov-19	Dec-19
<u>Source</u>			
Seaside Groundwater Basin			
Laguna Seca Subarea	0	0	0
Other	0	0	0
<u>Use</u>			
Customer Service	30	30	24

CALIFORNIA AMERICAN WATER QUARTERLY WATER SUPPLY BUDGET: Oct – Dec 2019

Recommendation

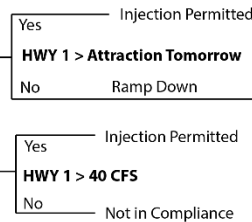
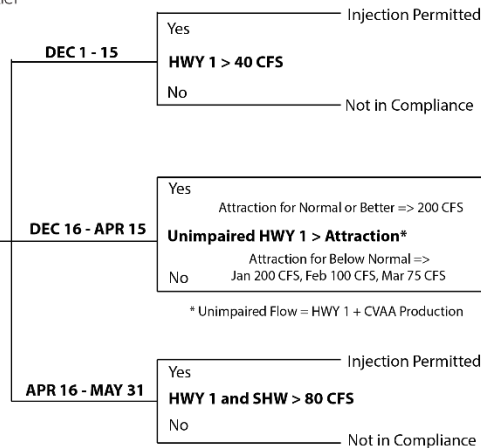
- Adopt proposed Water Supply Strategy and Budget for Cal-Am's Main and Laguna Seca water distribution systems for the first quarter of Water Year 2020, the Oct – Dec 2019 period.

ASR Water Rights Flow Limits

ASR Water Rights and Water Quality Sampling Rules

20808 A

3007 GPM
13.3 AFD
ASR 1 and 2



Normal or Better

Dry or Critically Dry

Ramp Down Tables

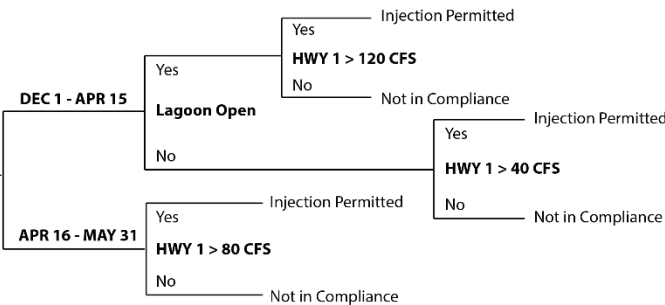
Day	SHW	HWY 1
1	200	200
2	175	175
3	150	150
4	125	125
5	90	100
6	90	80
7	90	60

Day	SHW	HWY 1
1	150	150
2	125	125
3	100	100
4	90	80
5	90	60
6	90	60
7	90	60

**After Ramp Down
Continue Injection
Until Flows Drop Below
SHW 90 CFS or HWY 1 60 CFS**

20808 C

3590 GPM
15.9 AFD
ASR 1 and 2
ASR 3 and 4



INJECTION PERIOD (active injection)								
Analyte Group	Injectate			SM MW-1	SMS Deep MW	PCA East (deep)		
F-1	Bi-Weekly			Bi-Weekly	Bi-Weekly	Semiannually		
DBP	Monthly			Quarterly	Quarterly	Semiannually		
G-1	Quarterly			Quarterly	Quarterly	Semiannually		
S-1	Quarterly			Quarterly	Quarterly	Semiannually		
STORAGE PERIOD (one month duration or longer)								
Analyte Group	SM ASR-1	SM ASR-2	SMS ASR-3	SMS ASR-4	SM MW-1	SMS Deep MW	PCA East (deep)	
F-1	Monthly	Monthly	Monthly	Monthly	Quarterly	Quarterly	Semiannually	
DBP	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Semiannually	
G-1	Quarterly	Quarterly	Quarterly	Quarterly	Semiannually	Semiannually	Semiannually	
S-1	Quarterly	Quarterly	Quarterly	Quarterly	Semiannually	Semiannually	Semiannually	
RECOVERY PERIOD								
Analyte Group	SM ASR-1	SM ASR-2	SMS ASR-3	SMS ASR-4	SM MW-1	SMS Deep MW	Paralta	PCA East (deep)
F-1	Bi-Weekly	Monthly	Monthly	Monthly	Quarterly	Quarterly	Semiannually ²	Semiannually
DBP	Quarterly	Quarterly	Quarterly	Quarterly	Semiannually	Semiannually	Semiannually ²	Semiannually
G-1	Quarterly	Quarterly	Quarterly	Quarterly	Semiannually	Semiannually	Semiannually ²	Semiannually
S-1	Quarterly	Quarterly	Quarterly	Quarterly	Semiannually	Semiannually	Semiannually ²	Semiannually