MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

Public Hearing Item 13:

Consider Adoption of October – December 2012 Quarterly Water Supply Strategy and Budget for California American Water

September 17, 2012, Regular Meeting
Staff Contacts: Kevan Urquhart & Jonathan Lear

CALIFORNIA AMERICAN WATER QUARTERLY WATER SUPPLY BUDGET: October - December 2012

- Applies to California American Water (Cal-Am) reservoir and well operations in the Carmel River and Seaside Groundwater Basins.
- Consistent with SWRCB Orders 95-10, 98-04, 2002-02, and 2009-0060, the National Marine Fisheries Service (NMFS) Conservation and Settlement Agreements, DWR San Clemente Reservoir Drawdown Project, and Seaside Groundwater Basin adjudication decision.
- Stored a total of 131 AF in Water Projects 1 & 2 (ASR) for Water Year 2012, during March – April 2012, which will be recovered in Water Year 2013, during October 2012.
- Includes the third set of reductions in Cal-Am's diversions from the Carmel River specified in SWRCB Order WR 2009-0060. Next reductions due in Water Year 2014.

CALIFORNIA AMERICAN WATER
QUARTERLY WATER SUPPLY BUDGET:
October - December 2012

- Continues the second set of reductions in Cal-Am's diversions from Seaside Groundwater Basin made in Water Year 2012 as specified in the adjudication, through formal action taken by the Water Master Board. Next reductions due in Water Year 2015.
- Assumes monthly inflow conditions characteristic of a Dry Water Year Type for the rest of 2012, using monthly inflow patterns from 1991.
- Developed cooperatively by staff from MPWMD, Cal-Am, NMFS, California Department of Fish and Game, and the United States Fish and Wildlife Service.
- Assumes no carry-over of any unused native Seaside groundwater from Water Year 2012 into Water Year 2013.

CAL-AM QUARTERLY WATER SUPPLY BUDGET: MAIN SYSTEM PRODUCTION TARGETS

October - December 2012

Proposed Production Targets by Source in Acre-Feet

SOURCE/USE	MONTH		
	Oct-12	Nov-12	Dec-12
Source			
Carmel Valley Aquifer			
Upper Subunits	0	0	0
Lower Subunits (95-10)	628	558	560
Lower Subunits (ASR)	0	0	145
Seaside Groundwater Basin			
Coastal Subareas	369	350	250
Phase 1 ASR Recovery	131	0	0
Sand City Desalination	25	25	25
Total	**1153**	**933**	**980**
Use			
Customer Service	1153	933	835
Phase 1 ASR Injection	0	0	145
Total	**1153**	**933**	**980**

CAL-AM QUARTERLY WATER SUPPLY BUDGET: LAGUNA SECA SUBAREA SYSTEMS PRODUCTION TARGETS

October 2012 - December 2012

Proposed Production Targets in Acre-Feet

SOURCE/USE	**MONTH**		
	Oct-12	**Nov-12**	**Dec-12**
Source			
Seaside Groundwater Basin			
Laguna Seca Subarea	14	10	8
Other	0	0	0
Total	**14**	**10**	**8**
Use			
Customer Service	14	10	8

CALIFORNIA AMERICAN WATER
QUARTERLY WATER SUPPLY BUDGET:
October - December 2012

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 2013, the October - December 2012 period.

REVISED 2012 LOW FLOW SEASON TARGETS

EXHIBIT 17C, TABLE 1 [Version 8]

2012 [Draft] Low Flow Memorandum of Agreement & Quarterly Water Budget

Carmel River Reservoirs: Diversion and Release Schedule (All Values in Acre-Feet, except as indicated)

Assuming Dry Water Year Inflow Conditions For June-December 2012 That Parallel 1991 & LPR Drawdown to 995' Elevation = 315 AF

	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	WY 2012
Los Padres Reservoir																
Inflow	780	889	749	2,091	1,189	2,848	3,986	1,428	720	406	190	96	112	209	669	15,372
Outflow																
Evaporation	9	6	2	18	13	30	31	55	77	81	71	44	19	11	5	437
Spillage	0	0	0	792	617	2,144	3,360	758	48	0	0	0	0	0	0	7,719
Release (Fish Ladder)	615	595	615	615	575	615	595	615	595	517	531	422	405	372	474	6,903
Release (Outlet)	433	253	216	0	0	0	0	0	0	0	0	0	0	0	0	902
Release (Notch)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Storage																
Beginning of Month	1,390	1,114	1,149	1,065	1,731	1,716	1,775	1,775	1,775	1,775	1,583	1,171	801	489	315	
End of Month	1,114	1,149	1,065	1,731	1,716	1,775	1,775	1,775	1,775	1,583	1,171	801	489	315	505	
Between Reservoirs																
Inflow	143	325	292	588	513	1,015	1,506	558	207	0	0	0	0	0	184	5,147
Outflow																
Evapotranspiration	37	21	16	21	20	21	21	37	63	38	58	53	37	21	16	405
Private Usage	5	2	2	2	2	2	2	5	8	8	8	6	5	2	2	53
San Clemente Reservoir																
Inflow	1,149	1,150	1,105	1,972	1,683	3,751	5,438	1,889	779	471	465	364	363	349	640	20,214
Outflow																
Evaporation	4	0	2	4	2	5	7	15	15	13	12	9	4	3	4	88
Spillage	0	0	426	1,278	996	3,070	4,777	1,198	424	0	0	0	0	0	0	**12,169**
Diversion (Filter Plant)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Valve)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Six Ports)	1,084	1,091	0	0	0	0	0	0	308	435	391	295	298	286	574	3,604
Release (Fish Ladder)	0	0	615	615	575	615	595	615	0	0	0	0	0	0	0	3,629
Leakage	61	59	61	61	58	61	59	61	59	61	61	59	61	59	61	726
Total Storage																
Beginning of Month	71	71	71	71	85	137	137	137	137	109	71	71	71	71	71	
End of Month	71	71	71	85	137	137	137	137	109	71	71	71	71	71	71	
Total Release	1,146	1,150	1,103	1,954	1,629	3,746	5,431	1,874	791	496	452	354	359	346	635	**20,127**
Mean Daily Release in cfs	18.6	19.3	17.9	31.8	28.3	60.9	91.3	30.5	13.3	8.1	7.4	6.0	5.8	5.8	10.3	
Mean Daily Diversion in cfs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Mean Daily Diversion in cfs (Russell Wells)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	