## AMONTEREY COUNTY WATER RESOURCES AGENCY BOARD OF DIRECTORS – RESERVOIR OPERATIONS ADVISORY COMMITTEE

MEETING DATE:	August 31, 2017				AGENDA ITEM:	PHTH
	Consent ( )	Actio	n ( )	Inform	nation (X)	1
DEADLINE FOR BOARD ACTION:			August 3		4,120	

### .. Title

Reservoir Release Update

### ..Report

### **RECOMMENDATION:**

None – item presented for informational purposes.

### SUMMARY/DISCUSSION:

The Reservoir Operations Advisory Committee receives monthly updates on the status of Agency reservoirs.

**RESERVOIR ELEVATION / STORAGE**: As of August 31, 2017, San Antonio Reservoir is at an elevation of approximately 729.2 feet mean sea level (msl), 128,120 acre-feet of storage. Nacimiento Reservoir is at elevation 766.45 feet msl, 212,495 acre-feet of storage. San Antonio Reservoir is currently at 38% of storage capacity and Nacimiento Reservoir is at 56% of capacity.

The Salinas River mouth opened to the ocean on January 12<sup>th</sup> as a result of sandbar management activities in response to flow from the Arroyo Seco River. As of August 29<sup>th</sup> the Salinas River lagoon remains open to the ocean.

**RESERVOIR RELEASES:** Reservoir releases are currently being made to meet Salinas River Diversion Facility (SRDF) pumping demands and bypass requirements in accordance with the Salinas Valley Water Project Biological Opinion.

Minor fluctuations in release rates are not presented in this report but are documented in the Salinas Valley Water Project Annual Flow Reports.

Releases as of August 31, 2017:

Nacimiento Reservoir: 500 cfs
San Antonio Reservoir: 275 cfs

Total releases from both reservoirs to the Salinas River are approximately 775 cfs. The following "provisional" flows have been recorded by the USGS:

Salinas River near Spreckels: 26 cfs (decreasing)
Salinas River near Chualar: 74 cfs (decreasing)
Salinas River at Soledad: 331 cfs (decreasing)
Salinas River near Bradley: 727 cfs (steady)

### OTHER AGENCY INVOLVEMENT:

None

### FINANCING:

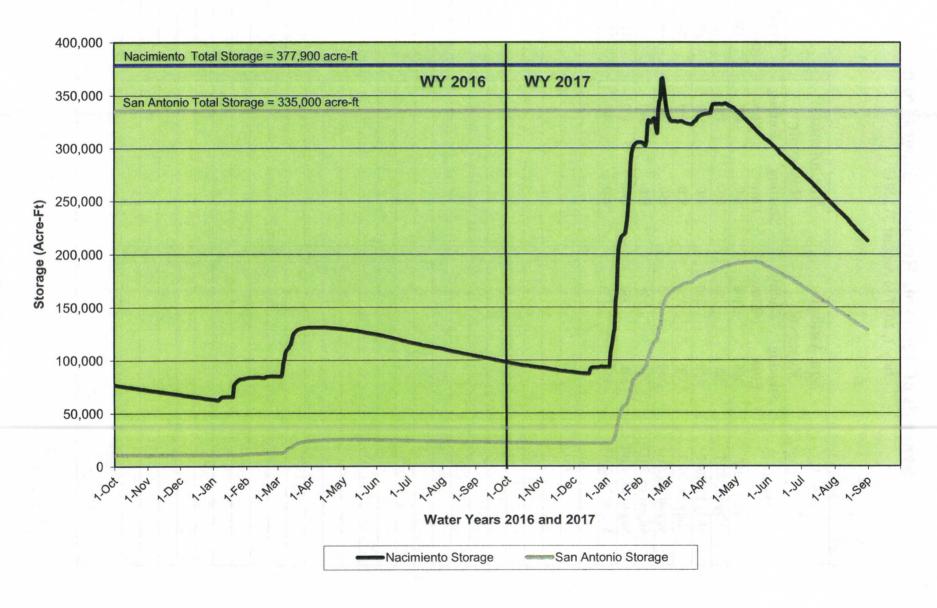
None

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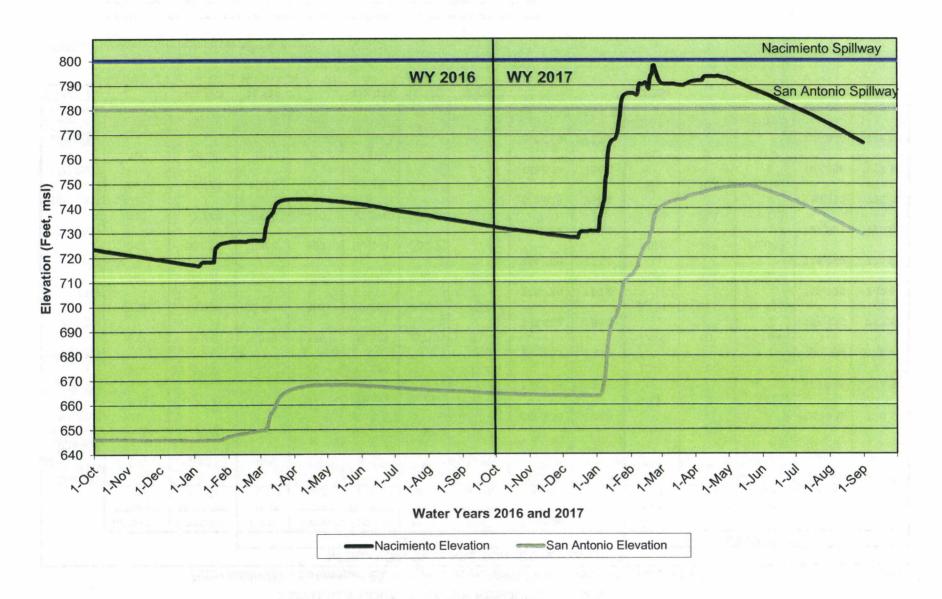
# Synopsis of Reservoir Release Changes from July 1, 2017 to August 31, 2017

	San An Reser	1.00%	Nacimi Reser			
Date	Starting Flow	Ending Flow	Starting Flow	Ending Flow	Total Release	
July 1, 2017	300	300	460	450	750	
July 11, 2017	300	350	450	450	800	
July 17, 2017	350	350	450	520	870	
July 19, 2017	350	350	520	450	800	
August 11, 2017	350	350	450	510	860	
August 16, 2017	350	325	510	510	835	
August 21, 2017	325	350	510	460	810	
August 24, 2017	350	275	460	500	775	

# Reservoir Storage



# **Reservoir Elevation**



### MONTEREY COUNTY WATER RESOURCES AGENCY

# PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after August 1 st

8/31/2017

				RE	SERVOI	R RELE	ASE SCH	EDULE FO	OR 2017						
			NACIMIENTO							SAN ANTONIO					
	Combined	Combined	Evap.	Reservoir	Reservoir	NWP	NWP	Storage	Elev.	Evap.	Reservoir	Reservoir	Storage	Elev.	
	Releases	Releases	Losses	Releases	Releases	Orders	Diversions	Manager Co.	-	Losses	Releases	Releases			
	(cfs)*	(ac-ft)	(ac-ft)**	(cfs)*	(ac-ft)	(ac-ft)	(ac-ft)	(ac-ft)	(ft)	(ac-ft)**	(cfs)*	(ac-ft)	(ac-ft)	(ft)	
1/1/2017								93,275	730.5		3.5		21,150	663.4	
	159	9,804	494	156	9,620	386	330			161	3	184			
2/1/2017	THE PARTY OF THE P	100 000	F00	0.400	100.055	700	404	305,178	786.6	101			87,205	712.7	
01410047	3,403	189,022	566	3,400	188,855	760	101	200 200	700.0	404	3	167	400 000	740.0	
3/1/2017	200	40 700	4.404	247	40 500	704	200	326,230	790.6	747		404	162,993	740.6	
41410047	320	19,706	1,161	317	19,522	784	332	204 200	-04-	747	3	184	470.040		
4/1/2017	040	40 407	4 000	007	40.050	004	404	331,828	791.7	4.400			179,848	745.5	
5/4/0047	310	18,437	1,338	307	18,258	881	434	205 570	700.4	1,122	3	179	400 400		
5/1/2017	047	07.005	4.070	500	20.057	0.040	400	335,573	792.4	4.000	0.4	5.500	190,460	748.4	
0/4/0047	617	37,925	1,879	526	32,357	2,012	483	205 602	700 7	1,629	91	5,568	407.475	747.5	
6/1/2017	739	43,974	2,780	458	27,263	2,206	534	305,683	786.7	2,121	281	16,711	187,175	747.5	
7/1/2017		43,974	2,700	450	21,203	2,200	334	275,780	780.6	2,121	201	10,711	169,920	742.6	
11112011	787	48,382	3,057	453	27,852	2,221	547	213,100	700.0	2,083	334	20,529	103,320	742.0	
8/1/2017	707	40,302	3,037	400	21,002	2,221	547	244,160	773.8	2,003	334	20,329	148,040	735.9	
0/1/2011	817	50,226	2,858	490	30,143	2,221		211,100	770.0	1,926	327	20,083	140,040	100.0	
9/1/2017	017	00,220	2,000	400	00,140	2,221		211,354	766.2	1,020	021	20,000	127,521	729.0	
0/1/2011	718	42,744	2,196	460	27,372	2,106		2.1,00		1,424	258	15,372	121,021	120.0	
10/1/2017		7,			Like Street Street	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		179,679	758.1	100		10,012	110,713	722.8	
	500	30,724	1,430	398	24,447	1,189				922	102	6,278			
11/1/2017				11.13				152,613	750.5				103,506	719.9	
Ven H	63	3,749	701	60	3,570	631				483	3	179			
12/1/2017				175				147,710	749.0				102,840	719.6	
	63	3,874	430	60	3,689	354				301	3	184			
1/1/2018			and the same					143,237	747.7		tudi de la companya d		102,352	719.4	
TOTALS:		498,567	18,889		412,949	15,750	2,760			13,324		85,618	Hadama.		

<sup>\*</sup> Mean daily flow for the month in cubic feet per second.

- NOTES: 1. Nacimiento Reservoir storage capacity 377,900 acre feet.
  - 2. San Antonio Reservoir storage capacity 335,000 acre feet.
  - 3. Reservoir Operations Committee may make release considerations for fish spawn and holiday periods to benefit recreation.
  - 4. Shaded areas represent periods when elevations are influenced by inflow/runoff; releases may include flood control releases.
  - 5. Preliminary Schedule assumes no inflow to reservoirs after June 1st.
  - 6. "NWP Diversions" are San Luis Obispo County Nacimiento Water Project conveyance facilities diversions. Max. allowable diversions for water year (Oct. 1 Sept. 30) are 15,750 ac-ft.
  - 7. NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.
  - 8. NACIMIENTO "NWP Orders" after 9/1/17 are estimated and will be replaced with actual orders once they are received.

<sup>\*\*</sup> Future Evap. Losses estimated from long term pan evaporation data at Nacimiento and San Antonio Reservoirs and replaced with calculated values once available.