

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS
RESERVOIR OPERATIONS COMMITTEE**

COMMITTEE MEMBERS

David Hart, Chair
Ken Ekelund
Richard Ortiz
Mark Nielsen
David Pozzi
Mark Gonzalez

John Baillie
Benny Jefferson
Dean Benedix
Michael Tozzi (Parks)
Mark Sandoval (CalParks)

TIME: 1:30 p.m.
DATE: Thursday, January 7, 2016
PLACE: Monterey County Water Resources Agency
Board Room
893 Blanco Circle
Salinas, CA 93901

AGENDA

1. CALL TO ORDER

2. PUBLIC COMMENT

(Limited to three (3) minutes per speaker on matters within the jurisdiction of the Agency not listed on this agenda. The public will have the opportunity to ask questions and make statements on agenda items as the Committee considers them.)

3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON DECEMBER 3, 2015

The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).

4. REVIEW THE STATUS OF BOTH RESERVOIRS; REVIEW RELEASES AND RELEASE SCHEDULE

Staff will present a summary of current conditions at both reservoirs, as well as provide a synopsis of release changes that have occurred since the last meeting (Attachments 2, 2a, 3, 3a, 4).

5. RECEIVE REPORT ON THE STATUS OF THE OPERATIONS POLICY MANUAL FOR SAN ANTONIO AND NACIMIENTO RESERVOIRS

Staff will report on the work being done to update the San Antonio and Nacimiento Reservoirs Operations Policy manual.

- 6. RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS**
Staff will present a verbal report discussing the various Operations and Maintenance activities at both reservoirs that have occurred over the last month.
- 7. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT**
Staff will report on current activities regarding the Interlake Tunnel Project.
- 8. RECEIVE REPORTS ON STATUS OF:**
 - A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT**
 - B. EASEMENTS AND AGENCY LEASES**
 - C. QUAGGA / ZEBRA MUSSEL PLAN**
 - D. UPDATE ON SAN LUIS OBISPO COUNTY ACTIVITIES**
 - E. NATIONAL MARINE FISHERIES SERVICE**
 - F. CLOUD SEEDING**
- 9. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**
The Committee will discuss and determine details for its next meeting.
- 10. ADJOURNMENT**

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TIME: 1:30 PM
DATE: Thursday, December 3, 2015
PLACE: Monterey County Water Resources Agency
Board Room
890 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. **CALL TO ORDER @ 1:34 p.m. by Chair David Hart and a quorum was established.**
Members present: David Hart, Ken Ekelund, Richard Ortiz, Mark Nielsen, John Baillie, Scott Duffield (*Rep for SLO County*), Nate Merkle (*Rep for CalParks*)
Members absent: David Pozzi, Mark Gonzalez, Benny Jefferson, Michael Tozzi

Bill Stephens and Joel Casagrande, NOAA National Marine Fisheries Service (NMFS), did not participate in the meeting.

2. **PUBLIC COMMENT**
None

3. **APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON NOVEMBER 5, 2015**

ACTION: On motion and second of Committee members Baillie and Ortiz, the Committee approved the minutes.

VOTE: YES: Hart, Ortiz, Nielsen, Baillie, Duffield, Merkle
NO: none
ABSTAIN: Ekelund
ABSENT: Pozzi, Gonzalez, Jefferson, Tozzi

4. **REVIEW THE STATUS OF BOTH RESERVOIRS; REVIEW RELEASES AND RELEASE SCHEDULE**

Jason Demers, Hydrologist, reported on this item. There is flow of approximately 77 cfs in the Salinas River at the Bradley gage. End of flow in the Salinas River is at river mile 73.9.

Nacimiento Reservoir elevation is 718.95 feet and 66,798 acre-feet of storage, 18% of capacity, and current release is 60 cfs. San Antonio Reservoir elevation is 645.70 feet and 10,355 acre-feet of storage, 3% of capacity, and current release is 3 cfs.

5. RECEIVE REPORT ON THE STATUS OF THE OPERATIONS POLICY MANUAL FOR SAN ANTONIO AND NACIMIENTO RESERVOIRS

Brent Buche, Deputy General Manager, reported on this item. A meeting of the Operations Policy Manual Subcommittee is scheduled for 10:00 a.m. Wednesday, December 16, 2015 at the Agency.

6. RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS

Brent Buche, Deputy General Manager, reported on this item. A PowerPoint presentation with photos of the repair work being conducted at San Antonio Reservoir was part of the report.

7. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT

Dave Chardavoyne, General Manager, reported on this item.

8. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

Nate Merkle, CalParks, reported on this item. There was no representative from Parks Department present to provide a report.

B. EASEMENTS AND AGENCY LEASES

Brent Buche reported on this item.

C. QUAGGA / ZEBRA MUSSEL PLAN

Elizabeth Krafft, Senior Hydrologist, reported on this item.

D. UPDATE ON SLO COUNTY ACTIVITIES

Scott Duffield, San Luis Obispo County Public Works, reported on this item.

E. NATIONAL MARINE FISHERIES SERVICE

There was no report on this item (NOAA representatives not present)

F. CLOUD SEEDING

Scott Duffield, San Luis Obispo County Public Works, reported on this item.

10. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The next meeting is scheduled for Thursday, January 7, 2016 at the Agency. Committee members requested an update from Monterey County on work related to the Nacimiento fuel spill and an update from County Counsel on easements and Agency leases.

11. ADJOURNMENT BY CHAIR DAVID HART AT 3:28 P.M.

SUBMITTED BY: TERESA CAMPA

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS - RESERVOIR OPERATIONS COMMITTEE**

MEETING DATE:	January 7, 2016	AGENDA ITEM:	
AGENDA TITLE:	Reservoir Release Update		
Consent ()		Action ()	
Information (X)			
SUBMITTED BY:	Germán Criollo	PREPARED BY:	Jason Demers
PHONE:	(831) 755-4860	PHONE:	(831) 755-4860
DEADLINE FOR BOARD ACTION:	January 7, 2016		

RECOMMENDED BOARD ACTION:

None – item presented for informational purposes.

SUMMARY:

The Board of Directors receives monthly updates on the status of Agency reservoirs.

DISCUSSION/ANALYSIS:

RESERVOIR ELEVATION / STORAGE: As of December 21, 2015, San Antonio Reservoir is at an elevation of approximately 645.65 feet mean sea level (msl), 10,330 acre-feet of storage. Nacimiento Reservoir is at elevation 717.7 feet msl, 64,250 acre-feet of storage. San Antonio Reservoir is currently at 3% of storage capacity and Nacimiento Reservoir is at 17% of capacity.

RESERVOIR RELEASES: Minimum fisheries releases continue from both reservoirs. Releases are being made from San Antonio Reservoir through a combination of pumping and siphoning at a rate of approximately 2 cfs. Releases from Nacimiento Reservoir remain at 60 cfs.

Releases as of December 21, 2015:

- San Antonio Reservoir: 2 cfs
- Nacimiento Reservoir: 60 cfs

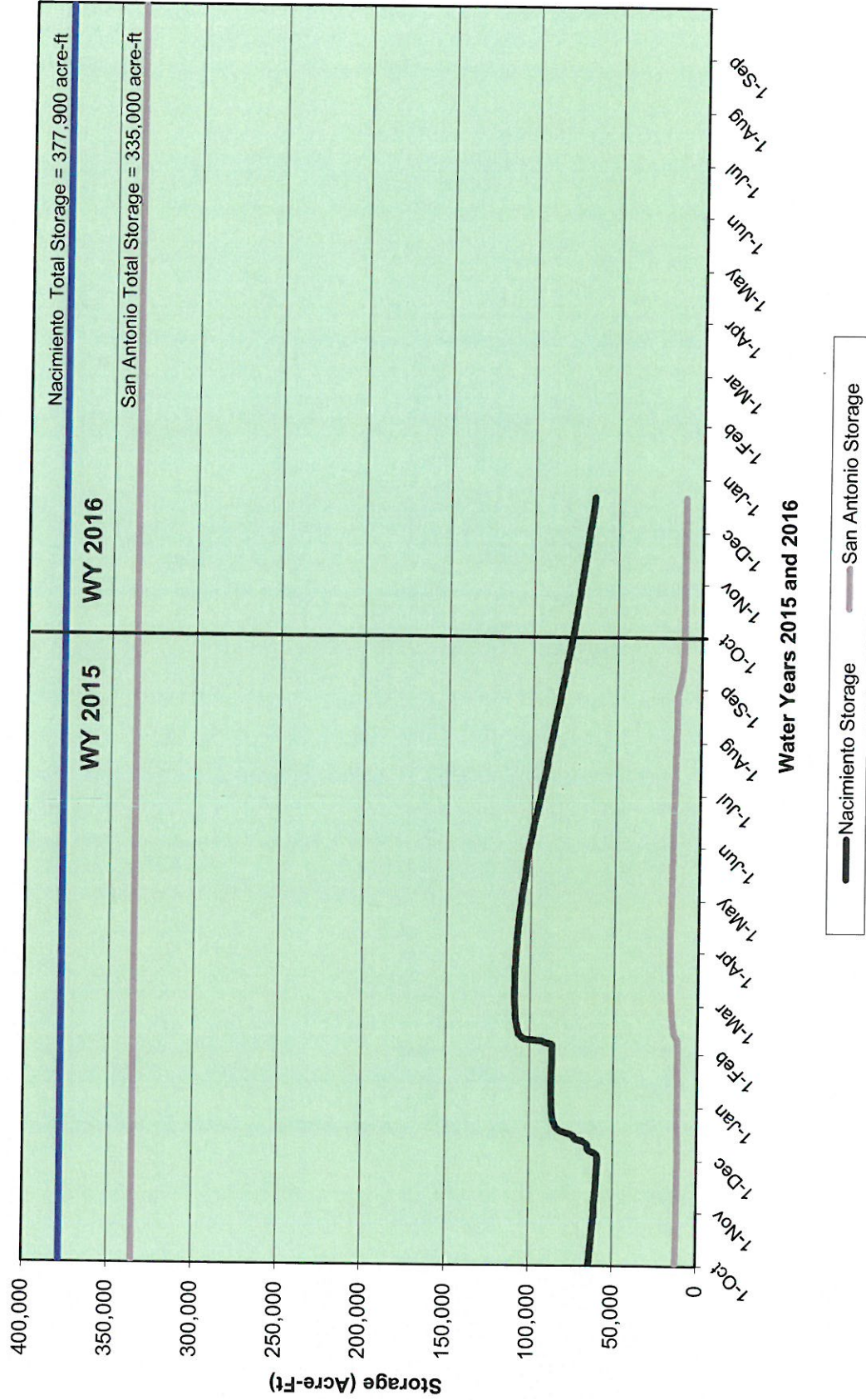
Total releases from both reservoirs to the Salinas River are approximately 62 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 68 cfs (steady)

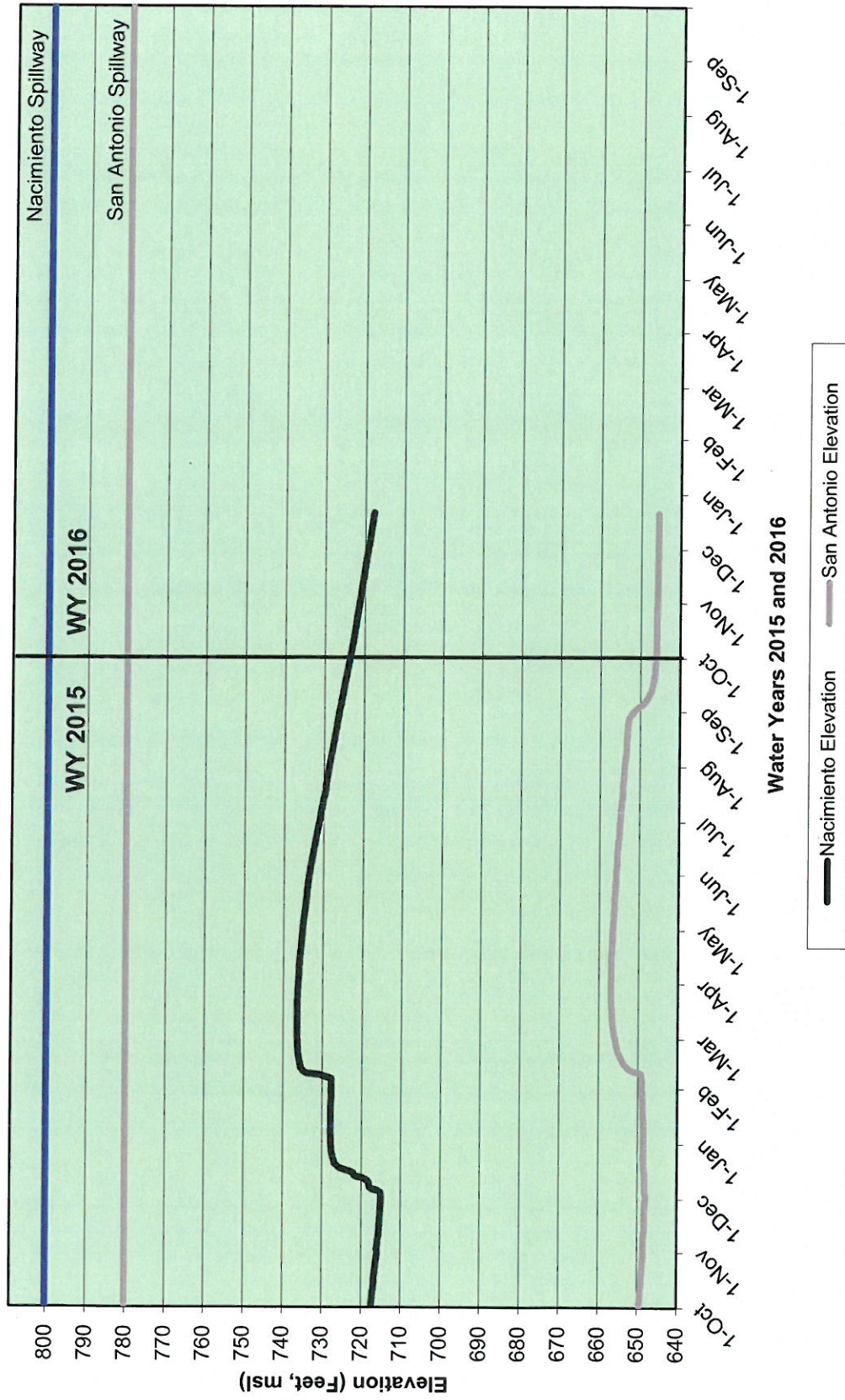
**Synopsis of Reservoir Release Changes from
August 28, 2015 to December 21, 2015**

Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
August 28, 2015	5	56	60	60	116
August 29, 2015	56	100	60	60	160
September 1, 2015	100	113	60	60	173
September 2, 2015	113	138	60	60	198
September 3, 2015	138	175	60	60	235
September 4, 2015	175	191	60	60	251
September 5, 2015	191	145	60	60	205
September 6, 2015	145	115	60	60	175
September 7, 2015	115	97	60	60	157
September 8, 2015	97	84	60	60	144
September 9, 2015	84	75	60	60	135
September 10, 2015	75	55	60	60	115
September 11, 2015	55	50	60	60	110
September 12, 2015	50	45	60	60	105
September 13, 2015	45	40	60	60	100
September 14, 2015	40	37	60	60	97
September 15, 2015	37	35	60	60	95
September 16, 2015	35	32	60	60	92
September 17, 2015	32	28	60	60	88
September 18, 2015	28	25	60	60	85
September 19, 2015	25	23	60	60	83
September 20, 2015	23	20	60	60	80
September 21, 2015	20	3	60	60	63
December 8, 2015	3	2	60	60	62

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY

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

12/21/2015

RESERVOIR RELEASE SCHEDULE FOR 2015

	NACIMIENTO							SAN ANTONIO						
	Combined Releases (cfs)*	Combined Releases (ac-ft)	Evap. Losses (ac-ft)**	Reservoir Releases (cfs)*	Reservoir Releases (ac-ft)	NWP Orders (ac-ft)	NWP Diversions (ac-ft)	Storage (ac-ft)	Elev. (ft)	Evap. Losses (ac-ft)**	Reservoir Releases (cfs)*	Reservoir Releases (ac-ft)	Storage (ac-ft)	Elev. (ft)
1/1/2015	35	2,152	263	30	1,845	175	0	86,638	727.8	67	5	307	11,775	648.6
2/1/2015	35	1,944	282	30	1,666	310	0	86,515	727.7	70	5	278	12,003	649.0
3/1/2015	35	2,152	600	30	1,845	923	0	109,100	736.4	141	5	307	15,903	655.9
4/1/2015	35	2,083	862	30	1,785	1,469	965	108,550	736.2	201	5	298	16,618	657.0
5/1/2015	41	2,549	756	36	2,241	2,009	1,303	105,525	735.1	180	5	307	16,325	656.5
6/1/2015	65	3,868	1,740	60	3,570	2,353	1,264	101,225	733.5	310	5	298	15,838	655.8
7/1/2015	65	3,997	1,070	60	3,689	2,334	1,171	94,650	731.0	293	5	307	15,230	654.8
8/1/2015	76	4,663	1,326	60	3,689	2,393	1,065	88,720	728.6	436	16	974	14,630	653.8
9/1/2015	112	6,651	1,537	60	3,570	2,175	908	82,640	726.1	311	52	3,081	13,220	651.3
10/1/2015	63	3,874	901	60	3,689	1,436	793	76,625	723.5	225	3	184	10,507	646.0
11/1/2015	63	3,749	455	60	3,570	951	486	71,500	721.2	77	3	179	10,456	645.9
12/1/2015							TBR	67,215	719.3					
1/1/2016						512								
TOTALS:		37,681	9,790		31,161	17,040	7,956			2,310		6,520		645.7

* Mean daily flow for the month in cubic feet per second.

** Evap. Losses estimated from long term pan evaporation data at Nacimiento and San Antonio Reservoirs.

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 May 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. To Be Reported (TBR)

7. NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.

NOTES: