

**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, February 4, 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 JANUARY 7, 2016**
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. **CONSIDER RECOMMENDING CHANGES TO THE 2015 LEGISLATIVE PRIORITIES FOR AQUATIC INVASIVE SPECIES**
Staff will present a verbal report discussing the 2015 Monterey County legislative priorities for aquatic invasive species and the Committee will consider recommending any changes for 2016 to the Board of Directors.
9. **RECEIVE REPORTS ON STATUS OF:**
 - A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT
 - B. EASEMENTS AND AGENCY LEASES
 - C. UPDATE ON SAN LUIS OBISPO COUNTY ACTIVITIES
 - D. NATIONAL MARINE FISHERIES SERVICE
 - E. CLOUD SEEDING
10. **SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**
The Committee will discuss and determine details for its next meeting.
11. **ADJOURNMENT**

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

David Hart, Chair
Ken Ekelund
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Mark Nielsen
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John Baillie
Benny Jefferson
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Michael Tozzi (Parks)
Mark Sandoval (CalParks)

TIME: 1:30 PM
DATE: Thursday, January 7, 2016
PLACE: Monterey County Water Resources Agency
Board Room
890 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. **CALL TO ORDER @ 1:30 P.M. by Chair David Hart and a quorum was established.**
Members present: David Hart, Ken Ekelund, Richard Ortiz, David Pozzi, Mark Gonzalez, John Baillie, Dean Benedix, Michael Tozzi, Mark Sandoval
Members absent: Mark Nielsen, Benny Jefferson

Bill Stevens, NOAA National Marine Fisheries Service (NMFS), participated in the meeting via Conference Call.

2. **PUBLIC COMMENT - none**
3. **APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON DECEMBER 3, 2015**

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

VOTE: Motion carried unanimously by those members present.

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

Jason Demers, Hydrologist, reported on this item. There is a flow of 76 cfs in the Salinas River at the Bradley gage. End of flow in the Salinas River is estimated to be between river miles 69 and 74. Nacimiento Reservoir received 0.6 feet (or 1600 acre-feet) of inflow from the recent rains. No inflow has been received for San Antonio except from the direct rainfall. Salinas has received about 1.50 inches of rain so far this month. South Salinas has

received 8 inches this season. The mountains have received 4-6 inches in the past seven days. At the dams there's been over 1 inch, and about 2 inches in the upper part of the valleys above the reservoirs.

Nacimiento Reservoir elevation is 717.40 feet and 63,650 acre-feet of storage, 17% of capacity, and current release is 60 cfs.

San Antonio Reservoir elevation is 645.50 feet and 10,254 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, and Germán Criollo, Associate Hydrologist, reported on this item. An update on the December 16, 2015 Reservoir Operations Policy Subcommittee meeting was provided. The next meeting of the Subcommittee is scheduled for February 17, 2016. Due to questions about public attendance at the Subcommittee meetings, County Counsel has advised that Subcommittee meetings are not subject to Brown Act regulations and only Subcommittee members should attend. Updates will be provided at the Reservoir Operations Committee meetings. Keith Roberts, a South County grape grower, will be added to the Subcommittee.

ACTION: On motion and second of Committee members Baillie and Pozzi, the Committee approved the addition of Keith Roberts, representative for the South portion of Monterey County, to the Subcommittee and approved to keep it as a Subcommittee.

VOTE: Motion carried unanimously by those members present.

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

Brent Buche, Deputy General Manager, reported on this item.

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

Mark Sandoval, CalParks, and Michael Tozzi, Parks Department reported on this item.

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 SAN LUIS OBISPO COUNTY ACTIVITIES

Dean Benedix, San Luis Obispo County Public Works, reported on this item.

E. NATIONAL MARINE FISHERIES SERVICE

Bill Stevens, NOAA National Marine Fisheries Service (NMFS), reported on this item.

F. CLOUD SEEDING

No report provided

9. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The next meeting is scheduled for Thursday February 4, 2016 at the Agency.

10. ADJOURNMENT BY CHAIR DAVID HART AT 3:06 P.M.

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	February 4, 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:	February 4, 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 January 27, 2016, San Antonio Reservoir is at an elevation of approximately 646.3 feet mean sea level (msl), 10,659 acre-feet of storage. Nacimiento Reservoir is at elevation 725.9 feet msl, 82,165 acre-feet of storage. San Antonio Reservoir is currently at 3% of storage capacity and Nacimiento Reservoir is at 22% of capacity.

From the Seasonal low in early January, San Antonio Reservoir has received a net increase of approximately 400 acre-feet of storage while Nacimiento Reservoir has received a net increase of approximately 20,000 acre-feet of storage.

RESERVOIR RELEASES: Minimum fisheries releases continue from both reservoirs.

Releases as of January 27, 2016:

- San Antonio Reservoir: 3 cfs
- Nacimiento Reservoir: 60 cfs

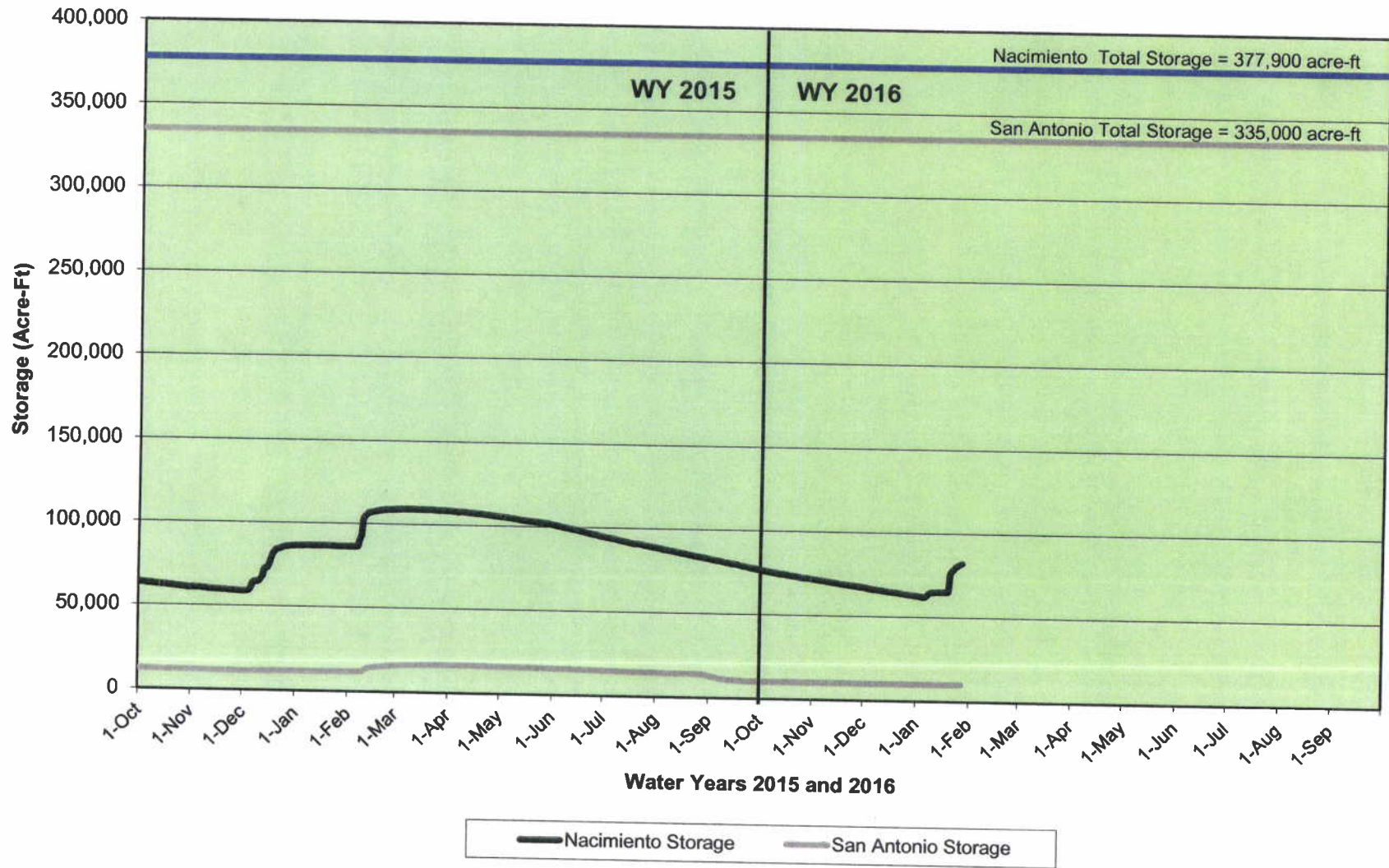
Total releases from both reservoirs to the Salinas River are approximately 63 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 70 cfs (steady)

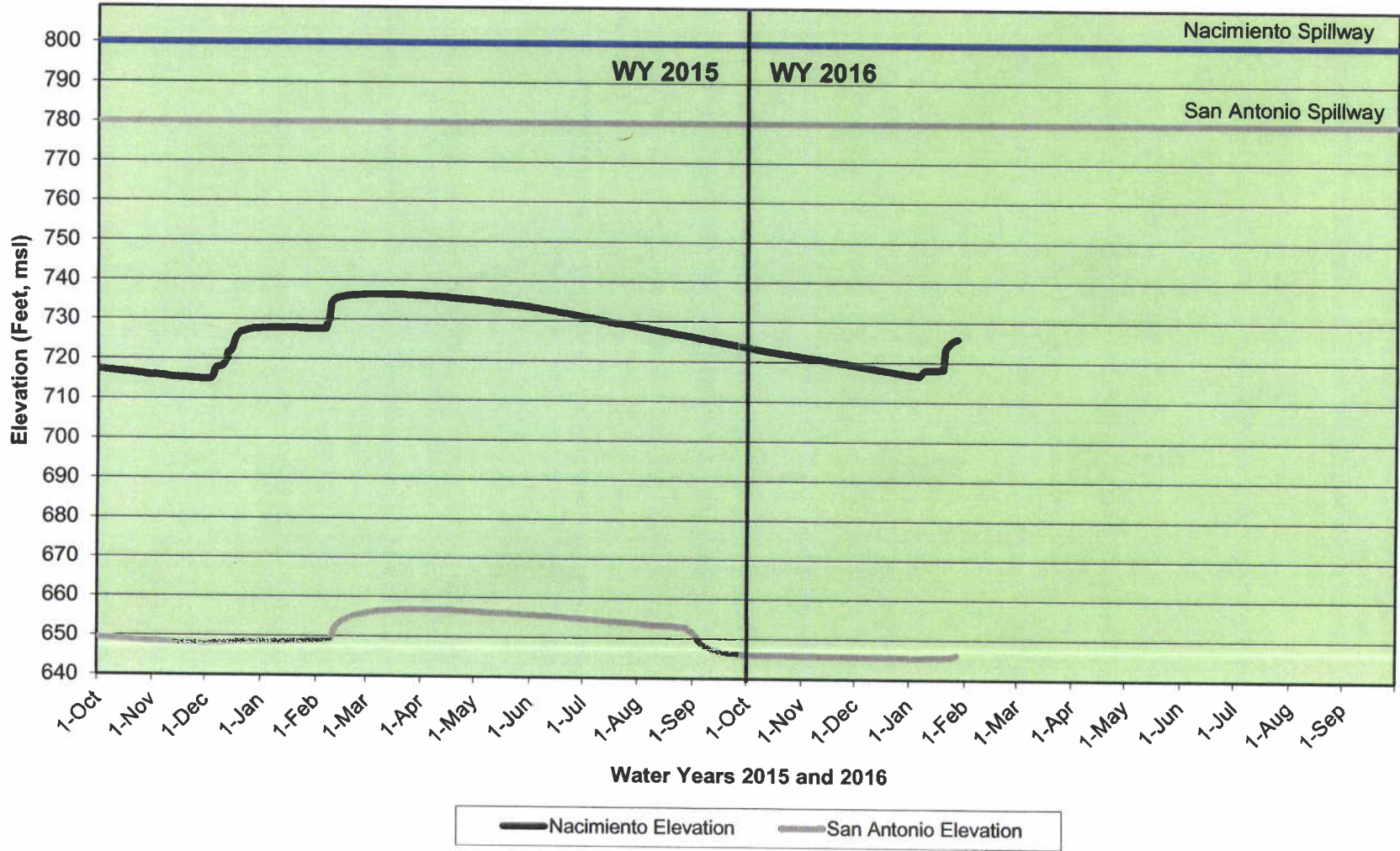
**Synopsis of Reservoir Release Changes from
September 1, 2015 to January 27, 2016**

Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
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
December 18, 2015	2	3	60	60	63

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY
2016 Elevation/Storage/NWP Diversions

1/28/2016

RESERVOIR RELEASE SCHEDULE FOR 2016

	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)
1/1/2016	35	2,152	263	30	1,845	348	TBR	62,755	716.95	67	5	307	10,254	645.50
2/1/2016						620								
3/1/2016						931								
4/1/2016						1,031								
5/1/2016						1,259								
6/1/2016						2,159								
7/1/2016						2,156								
8/1/2016						2,175								
9/1/2016						2,175								
10/1/2016						2,156								
11/1/2016														
12/1/2016														
1/1/2017														
TOTALS:		2,152	263		1,845	15,010	0			67		307		

* 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.

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 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.