

**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 October 1, 2015
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 SEPTEMBER 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 status of the current San Antonio and Nacimiento Reservoirs Operations Policy manual and discuss incorporating reservoir operational requirements implemented with the construction of the Salinas Valley Water Project.

- 6. RECEIVE REPORT ON CLOUD-SEEDING**
Staff will report on and discuss possible options for cloud-seeding opportunities.
- 7. 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.
- 8. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT**
Staff will report on current activities regarding the Interlake Tunnel Project.
- 9. 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**
- 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
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TIME: 1:30 P.M.
DATE: Thursday, September 3, 2015
PLACE: Monterey County Water Resources Agency
Board Room
890 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. CALL TO ORDER

The meeting was called to order @ 1:35 P.M. by Chair David Hart and a quorum was established.

Members Present: Hart, Ekelund, Nielsen, Pozzi, Gonzalez, Baillie, Jefferson, Benedix
Members Absent: Ortiz, Tozzi and Sandoval

2. PUBLIC COMMENT

None

3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON AUGUST 6, 2015

A request was made for a correction to Rodney Braga's name under the comments in Item 5.

ACTION: On motion and second of Directors Baillie and Nielsen, the Committee approved the minutes with the correction mentioned above.

VOTE: Unanimous by those Directors present.

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

Jason Demers, Hydrologist, presented this item for review. Releases from San Antonio Reservoir were gradually increased at San Antonio from 5 cfs on August 28, 2015, to 200 cfs on September 3, 2015.

Currently, flow of approximately 234 cfs is reaching the Salinas River near Bradley USGS gage and continues to rise. The end of continuous flow in the Salinas River was observed at approximately river mile 86.

Nacimiento Reservoir elevation is 726.00 feet and 82,400 acre-feet of storage, 22% of capacity, and current release is 60 cfs.

San Antonio Reservoir elevation is 650.95 feet and 13,018 acre-feet of storage, 4% of capacity, and current release is 200 cfs.

Information regarding El Niño weather conditions for the 2015-16 season was presented. The Committee also reviewed a forecasted inflow chart for the reservoirs based on a 140% of normal rainfall season.

Germán Criollo, Associate Hydrologist, provided an update on release option actions for the reservoirs and action taken at a Special Board of Directors meeting on August 11, 2015.

Bill Stevens and Joel Casagrande, NOAA Fisheries (on conference call), provided input on the weather forecast.

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

There was no report provided on this item.

6. RECEIVE REPORT ON CLOUD SEEDING

Dean Benedix, SLO County, provided an update on this item. San Luis Obispo County has funding to do a reconnaissance assessment to determine what would need to be done to implement a regional program including San Luis Obispo County, Santa Barbara County and Monterey County.

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

Brent Buche, Deputy General Manager, presented this item. The Committee reviewed the list of maintenance items to be performed at San Antonio Reservoir when the elevation reaches dead pool.

8. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT

Dave Chardavoyne, General Manager, presented this item. Negotiations of contracts for engineering and environmental work for this project are taking place and the Agency expects to present a recommendation to the Board of Directors at the end of September 2015.

9. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

David Hart provided an update on this item based on information he received via e-mail from Mark Sandoval. Business at Nacimiento for the summer was approximately 20-25% above last year.

B. EASEMENTS AND AGENCY LEASES

Brent Buche provided an update on this item. The Agency has hired Tom Shepherd for work relating to the Nacimiento and San Antonio Grazing Leases.

C. QUAGGA / ZEBRA MUSSEL PLAN

Elizabeth Krafft, Senior Hydrologist, provided an update on this item. The Agency met with San Luis Obispo County and Parks Department to discuss plans for inspection training.

D. UPDATE ON SLO COUNTY ACTIVITIES

Dean Benedix, San Luis Obispo County, provided an update on this item. At the request of the five participants who paid for the Nacimiento Water Project, San Luis Obispo County is preparing an amendment for the use of the remaining reserve water allocated to San Luis Obispo County. This amendment could be in place this calendar year.

10. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The next meeting is scheduled for Thursday October 1, 2015 at 1:30 P.M. the Agency.

11. ADJOURNMENT BY CHAIR DAVID HART AT 3:00 P.M.

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	October 1, 2015	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:		October 1, 2015	

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 September 23, 2015, San Antonio Reservoir is at an elevation of approximately 646.25 feet mean sea level (msl), 10,634 acre-feet of storage. Nacimiento Reservoir is at elevation 724.2 feet msl, 78,210 acre-feet of storage. San Antonio Reservoir is currently at 3% of storage capacity and Nacimiento Reservoir is at 21% of capacity.

RESERVOIR RELEASES: Beginning Friday, August 28, 2015, releases from San Antonio Reservoir were gradually increased from a rate of 5 cubic feet per second (cfs) up to a maximum rate of 191 cfs on September 4, 2015. Since that time, releases from San Antonio gradually reduced due to head loss until September 21, 2015 when bypass pumping of 3 cfs began. Releases from Nacimiento Reservoir remain at 60 cfs.

Releases as of September 23, 2015:

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

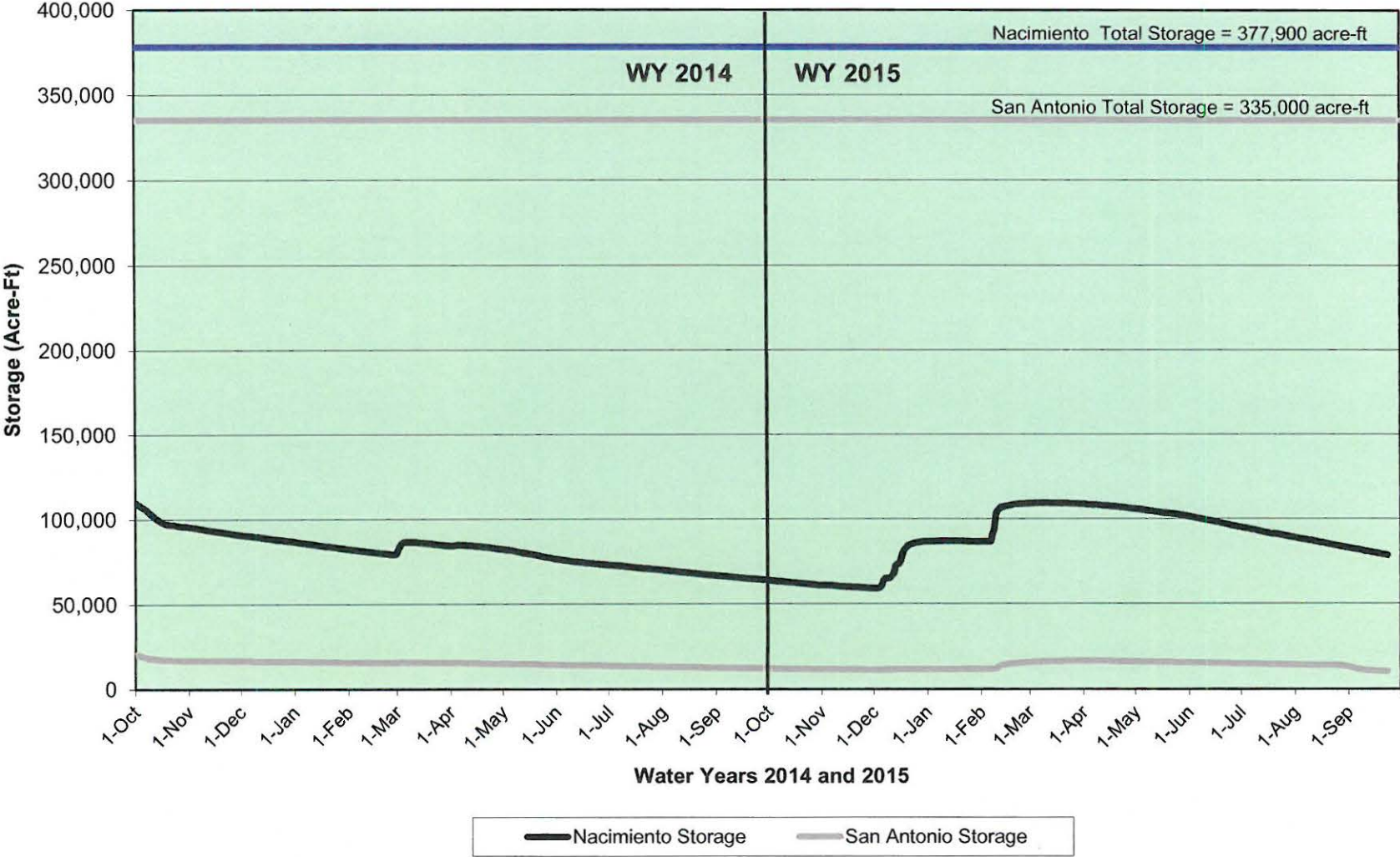
Total releases from both reservoirs to the Salinas River are approximately 63 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 48 cfs (decreasing)

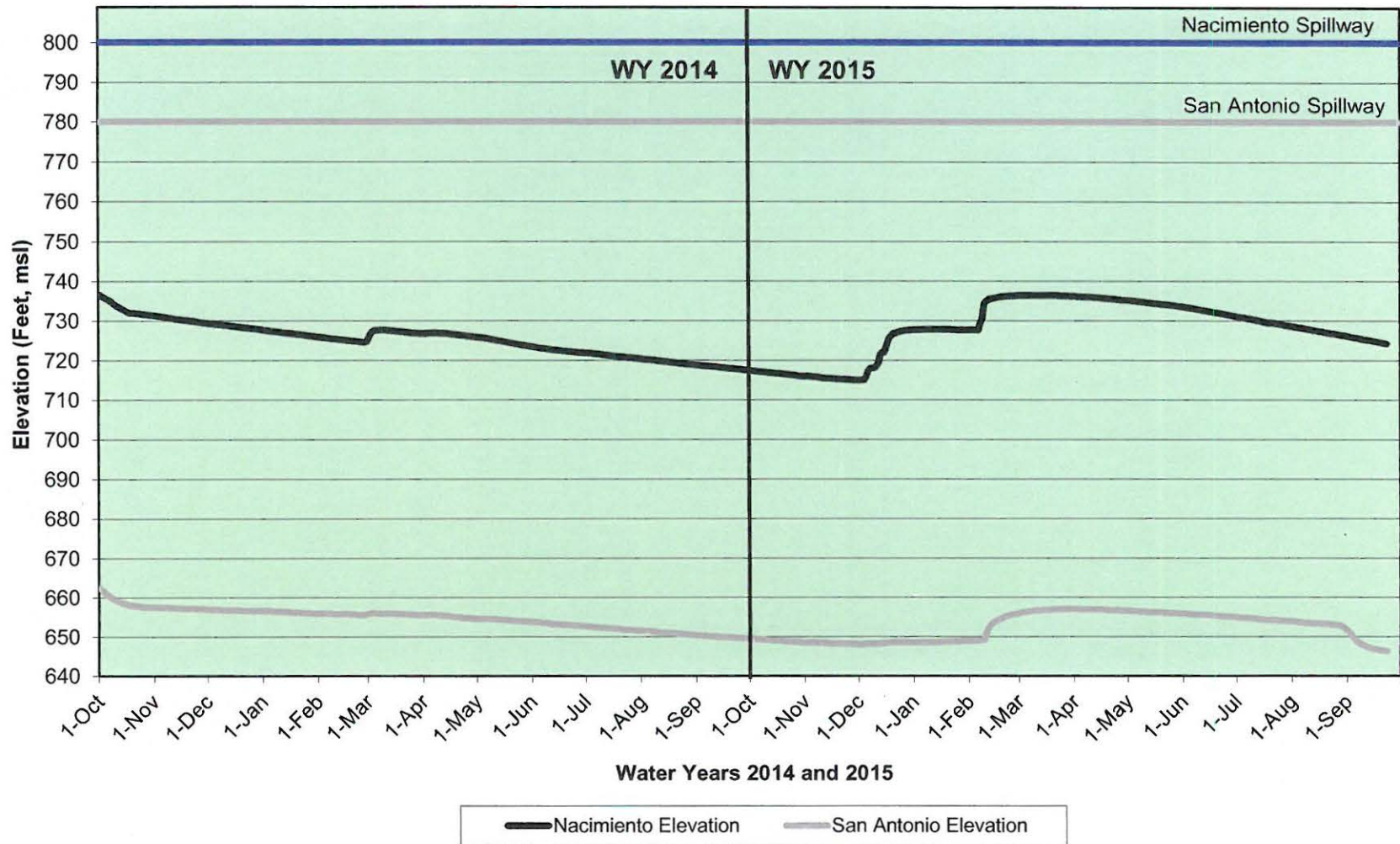
**Synopsis of Reservoir Release Changes from
August 28, 2015 to September 23, 2015**

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

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY

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

9/23/2015

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	1,268	60	3,570	2,175	TBR	82,640	726.1	311	52	3,081	13,220	651.3
10/1/2015							TBR	75,627	723.1				9,828	644.2
11/1/2015						1,436	TBR							
12/1/2015						951	TBR							
1/1/2016						512	TBR							
TOTALS:		30,058	8,166		23,901	17,040	5,769			2,009		6,157		

* 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:

- Nacimiento Reservoir storage capacity 377,900 acre feet.
- San Antonio Reservoir storage capacity 335,000 acre feet.
- Reservoir Operations Committee may make release considerations for fish spawn and holiday periods to benefit recreation.
- Shaded areas represent periods when elevations are influenced by inflow/runoff; releases may include flood control releases.
- Preliminary Schedule assumes no inflow to reservoirs after May 1st.
- "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)
- NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.