

**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)

NOTE: Time and Place of Meeting has changed, see attached sheet for directions

{Car Pool from Agency Office (893 Blanco Circle) will leave at 8:15 AM, Thursday June 2. Committee Members – please call Germán Criollo at 831.755.4860 by Noon on Tuesday, May 31st to RSVP a seat in the car pool.}

RESERVOIR OPERATIONS COMMITTEE MEETING

TIME: 10:00 AM
DATE: Thursday, June 2, 2016
PLACE: Dragon Lake Grill @ Lake Nacimiento Resort

TOUR OF NACIMIENTO RESERVOIR

Committee Members will tour Nacimiento Reservoir and view Agency leases in the Running Deer Area.

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 MAY 5, 2016**

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

4. REVIEW THE STATUS OF BOTH RESERVOIRS; AND 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, and 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 SLO ACTIVITIES**

9. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The Committee will discuss and determine details for its next meeting.

10. ADJOURN MEETING TO TOUR NACIMIENTO RESERVOIR

The Committee will adjourn meeting for a boat tour of Nacimiento Reservoir.

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TIME: 1:30 PM
DATE: Thursday, May 5, 2016
PLACE: Monterey County Water Resources Agency
Board Room
890 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. **Call to Order at 1:30 P.M. by Chair David Hart and a quorum was established.**
Members present: David Hart, Ken Ekelund, Richard Ortiz, Bill Capps (for Mark Nielsen), John Baillie, Benny Jefferson, Mark Sandoval
Members absent: David Pozzi, Mark Gonzalez, Dean Benedix, Michael Tozzi

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

2. **Public Comments:**
Bob Martin, Rio Farms, asked for clarification about the 400 cfs maximum releases from the Low Level Outlet Works at Nacimiento.

Director Ortiz expressed concern about the impact on the water supply from the pipeline project currently underway in San Ardo.

3. **Approve the Minutes of the Reservoir Operations Committee Meeting held on April 7, 2016**

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

VOTE: Motion carried unanimously by those members present.

4. **Review the status of both reservoirs and current releases**
Jason Demers, Hydrologist, reported on this item. Since the seasonal low of January 2016, the net increase for San Antonio is 14,500 acre-feet of storage and 68,700 for Nacimiento.

There is a flow of 57 cfs in the Salinas River near the Bradley gage. End of flow in the Salinas River is at river mile 73.5 about five miles from King City.

Nacimiento Reservoir elevation is 742.95 feet and 128,398 acre-feet of storage, 34% of capacity, and current release is 60 cfs.

San Antonio Reservoir elevation is 668.00 feet and 24,750 acre-feet of storage, 7% of capacity, and current release is 3 cfs.

5. **Consider recommending that the Monterey County Water Resources Agency Board of Directors adopt a release schedule for Nacimiento and San Antonio reservoirs for 2016**
Germán Criollo, Associate Hydrologist, reported on this item.

Public Comments: Nancy Isakson, Salinas Valley Water Coalition; Bill Stevens, NMFS.

ACTION: On motion and second of Committee members Ekelund and Baillie, the Committee approved the release schedule.

VOTE: Yes: Hart, Ekelund, Ortiz, Capps, Baillie, Sandoval
No: Jefferson
Absent: Pozzi, Gonzalez, Benedix, Tozzi

6. **Receive report on the status of the Operations Policy Manual for San Antonio and Nacimiento Reservoirs**
Germán Criollo reported on this item. The next meeting of the Operations Policy Committee is scheduled for June 22, 2016.
7. **Receive report regarding Operations and Maintenance activities at the Reservoirs**
Brent Buche, Deputy General Manager, and Chris Moss, Senior Water Resources Engineer, reported on this item. A handout was provided.
8. **Receive report regarding Interlake Tunnel Project**
Dave Chardavoyne, General Manager, reported on this item.

Public Comment: Nancy Isakson

9. **Receive status reports on:**
 - A. **Lake Recreation by Concessionaire and Parks Department**
Mark Sandoval, CalParks, reported on this item.
 - B. **Easement and Agency Leases**
Brent Buche reported on this item.
 - C. **Quagga / Zebra Mussel Plan**
Mark Sandoval reported on this item.
 - D. **San Luis Obispo County Activities**
No report on this item.

E. National Marine Fisheries Service

Bill Stevens reported on this item.

F. Cloud Seeding

Brent Buche reported on this item on behalf of Dean Benedix.

ACTION: On motion and second of Committee members Baillie and Jefferson, the Committee recommends the Board of Directors approve the Agency utilize \$15,000 from the cloud seeding reserve fund for participation in a Regional Cloud Seeding feasibility study with San Luis Obispo County.

VOTE: Motion carried unanimously by those members present.

10. Set next meeting date and discuss future Agenda items

The next meeting is scheduled for Thursday June 2, 2016 at the reservoirs.

11. Adjournment by Chair David Hart at 3:57 P.M.

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	June 2, 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:	June 2, 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 May 23, 2016, San Antonio Reservoir is at an elevation of approximately 667.9 feet mean sea level (msl), 24,670 acre-feet of storage. Nacimiento Reservoir is at elevation 742.0 feet msl, 125,500 acre-feet of storage. San Antonio Reservoir is currently at 7% of storage capacity and Nacimiento Reservoir is at 33% of capacity.

From the Seasonal low in early January to the peak storage of 24,750 acre-feet of storage on May 19th, San Antonio Reservoir received a net increase of approximately 14,500 acre-feet. Nacimiento Reservoir reached its seasonal peak storage volume of 130,685 acre-feet on April 14th, a net increase of approximately 68,700 acre-feet from the low in early January. Storage volume in both reservoirs is currently in decline.

RESERVOIR RELEASES: Minimum fisheries releases continue from both reservoirs.

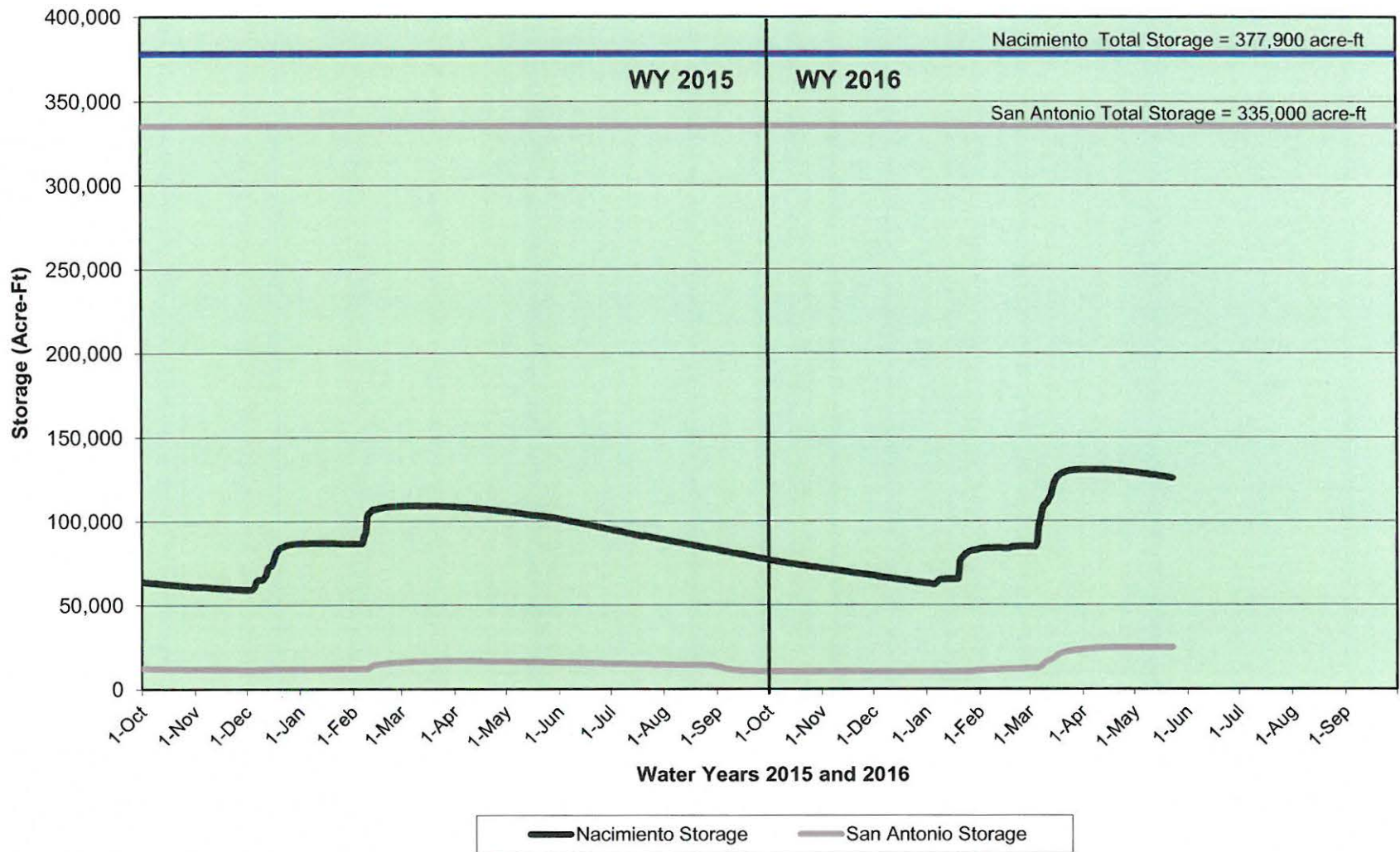
Releases as of May 23, 2016:

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

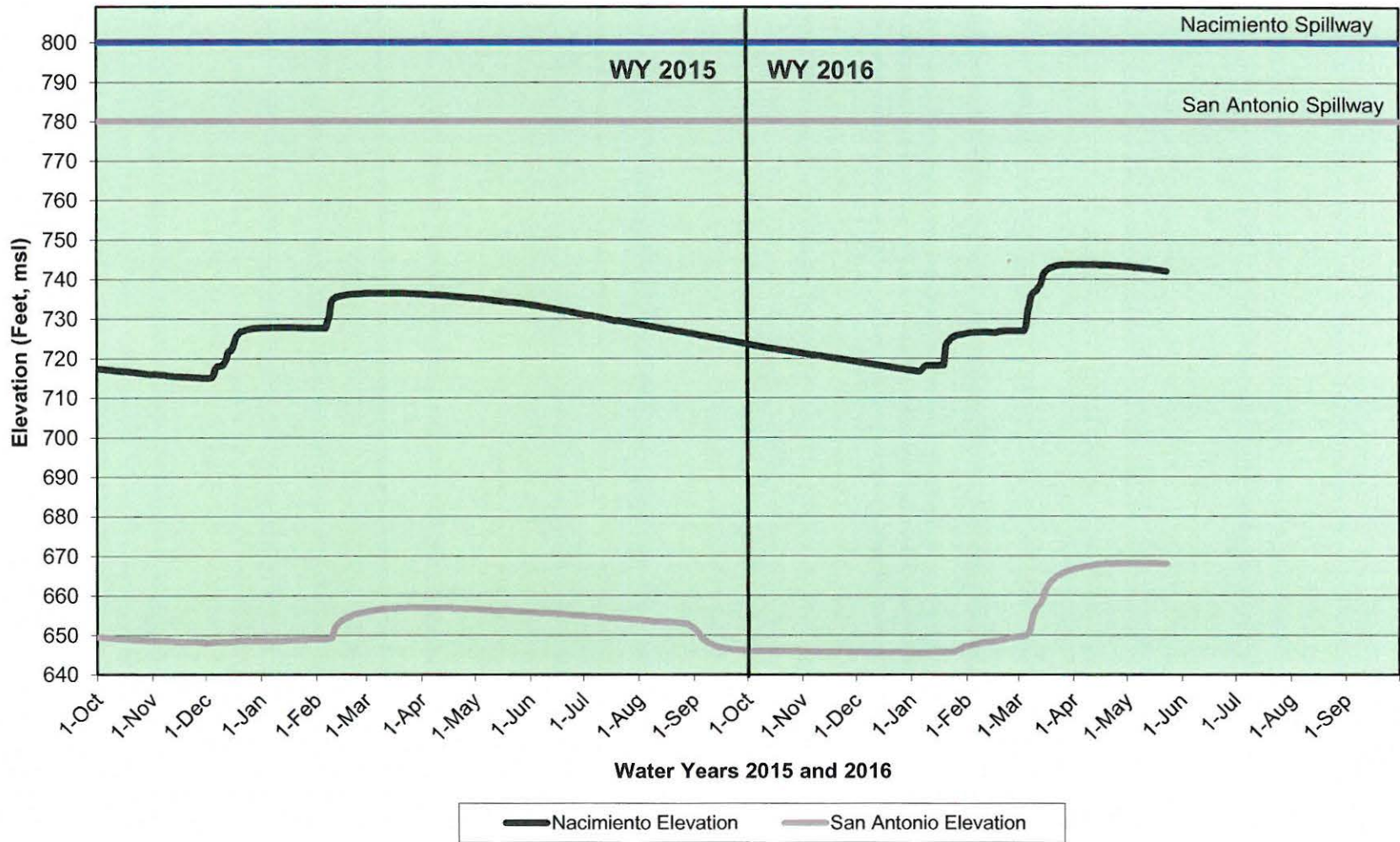
Total releases from both reservoirs to the Salinas River are approximately 63 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 53 cfs (steady)

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY
PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after May 1st

5/5/2016

	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	63	3,874	208	60	3,689	576	247	62,755	717.0	67	3	184	10,254	645.5
2/1/2016	63	3,624	225	60	3,451	716	309	83,120	726.3	67	3	173	11,065	647.1
3/1/2016	63	3,874	498	60	3,689	1,012	412	84,680	727.0	128	3	184	12,282	649.5
4/1/2016	63	3,749	845	60	3,570	1,101	439	130,685	743.7	222	3	179	23,630	666.6
5/1/2016	63	3,874	1,408	60	3,689	1,112	TBR	122,799	741.1	393	3	184	24,750	668.0
6/1/2016	63	3,749	1,896	60	3,570	2,106	TBR	115,227	738.6	533	3	179	24,173	667.3
7/1/2016	63	3,874	1,995	60	3,689	2,121	TBR	107,422	735.8	566	3	184	23,461	666.4
8/1/2016	63	3,874	1,822	60	3,689	2,121	TBR	99,789	733.0	516	3	184	22,710	665.5
9/1/2016	63	3,749	1,461	60	3,570	1,686	TBR	93,072	730.4	417	3	179	22,010	664.5
10/1/2016	63	3,874	1,023	60	3,689	1,189	TBR	87,171	728.0	296	3	184	21,415	663.8
11/1/2016	63	3,749	501	60	3,570	631	TBR	82,469	726.0	158	3	179	20,934	663.1
12/1/2016	63	3,874	309	60	3,689	354	TBR	78,116	724.2	96	3	184	20,598	662.7
1/1/2017	63	3,874	309	60	3,689	354	TBR	78,116	724.2	96	3	184	20,598	662.7
TOTALS:		45,736	12,192		43,558	14,724	1,406			3,459		2,178		

* 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.

Directions from Salinas to the Dragon Lake Grill @ Lake Nacimiento Resort

- Take US-101 South Go 75 miles
- Take exit 252 for Jolon Rd toward Hunter Liggett Go 0.2 miles
- Turn right onto Jolon Rd Go 0.1 miles
- Turn left onto Nacimiento Lake Dr Go 6.9 miles
- Turn left to stay on Nacimiento Lake Dr Go 3.5 miles
- Turn right onto Heritage Rd Go 0.7 miles
- Heritage Rd turns right and becomes Resort Dr Go 0.8 miles

