

**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, May 5, 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 April 7, 2016**
The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).
- 4. Review the status of both reservoirs and current releases**
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).
- 5. Consider recommending that the Monterey County Water Resources Agency Board of Directors adopts a release schedule for Nacimiento and San Antonio reservoirs for 2016**

The proposed reservoir release schedule (Attachment 4) for the 2016 release season will be discussed and evaluated. The Committee will review the schedule and develop a motion for the Agency Board of Directors.

- 6. 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.
- 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 and multi-year maintenance plans for the Nacimiento and San Antonio dams.
- 8. Receive report regarding Interlake Tunnel Project**
Staff will report on current activities regarding the Interlake Tunnel Project.
- 9. Receive status reports on:**
 - A. Lake recreation by Concessionaire and Parks Department**
 - B. Easements and Agency Leases**
 - C. Quagga / Zebra Mussel Plan**
 - D. San Luis Obispo County Activities**
 - E. National Marine Fisheries Service**
 - F. 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**

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TIME: 1:30 PM
DATE: Thursday, April 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, John Baillie, Benny Jefferson, Dean Benedix, and Mark Sandoval
Members absent: Mark Nielsen, Mark Gonzalez, and Michael Tozzi

(NOAA National Marine Fisheries Service did not participate in this meeting.)

2. **PUBLIC COMMENT - none**
3. **APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON MARCH 3, 2016**

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

YES: Hart, Ekelund, Ortiz, Pozzi, Baillie, Jefferson, and Benedix

ABSENT: Nielsen, Gonzalez, Tozzi

ABSTAIN: Sandoval

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

Jason Demers, Hydrologist, and Germán Criollo, Associate Hydrologist, reported on this item. Since January 2016, the net increase for San Antonio is 13,900 acre-feet of storage (or 22 feet in elevation) and for Nacimiento is 68,700 acre-feet of storage (or 27 feet in elevation). There is a flow of 63 cfs in the Salinas River near the Bradley gage. End of flow in the Salinas River is estimated to be between river mile 71 and 72. The release schedule was reviewed.

Nacimiento Reservoir elevation is 743.70 feet and 130,685 acre-feet of storage, 35% of capacity, and current release is 60 cfs.

San Antonio Reservoir elevation is 667.20 feet and 24,110 acre-feet of storage, 7% 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

Germán Criollo, Associate Hydrologist reported on this item. The Reservoir Operations Policy Subcommittee met on March 17, 2016. The next meeting is scheduled for April 20, 2016.

6. 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.

7. RECEIVE REPORT REGARDING NACIMIENTO HYDROELECTRIC PLANT IMPROVEMENTS

Chris Moss, Senior Water Resources Engineer, reported on this item.

8. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT

Brent Buche, Deputy General Manager, reported on this item. The Project Labor Agreement is scheduled to be presented for approval to the Joint Board of Directors/Board of Supervisors on April 12, 2016.

9. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

Mark Sandoval, CalParks, reported on this item.

Public Comment: Jeff Taylor

B. EASEMENTS AND AGENCY LEASES

Brent Buche reported on this item.

C. QUAGGA / ZEBRA MUSSEL PLAN

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

D. SAN LUIS OBISPO COUNTY ACTIVITIES

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

E. NATIONAL MARINE FISHERIES SERVICE

No report provided.

F. CLOUD SEEDING

Dean Benedix, 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 May 5, 2016 at the Agency.
11. **ADJOURNMENT BY CHAIR DAVID HART AT 3:24 P.M.**

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	May 5, 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:	May 5, 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 April 27, 2016, San Antonio Reservoir is at an elevation of approximately 668.0 feet mean sea level (msl), 24,750 acre-feet of storage. Nacimiento Reservoir is at elevation 743.3 feet msl, 129,465 acre-feet of storage. San Antonio Reservoir is currently at 7% of storage capacity and Nacimiento Reservoir is at 34% of capacity.

From the Seasonal low in early January, San Antonio Reservoir has received a net increase of approximately 14,500 acre-feet of storage with inflow still matching or exceeding outflow. As of April 14th Nacimiento Reservoir reached its seasonal peak storage volume of 130,685 acre-feet, a net increase of approximately 68,700 acre-feet from the low in early January. Nacimiento reservoir storage has been in decline since that time.

RESERVOIR RELEASES: Minimum fisheries releases continue from both reservoirs.

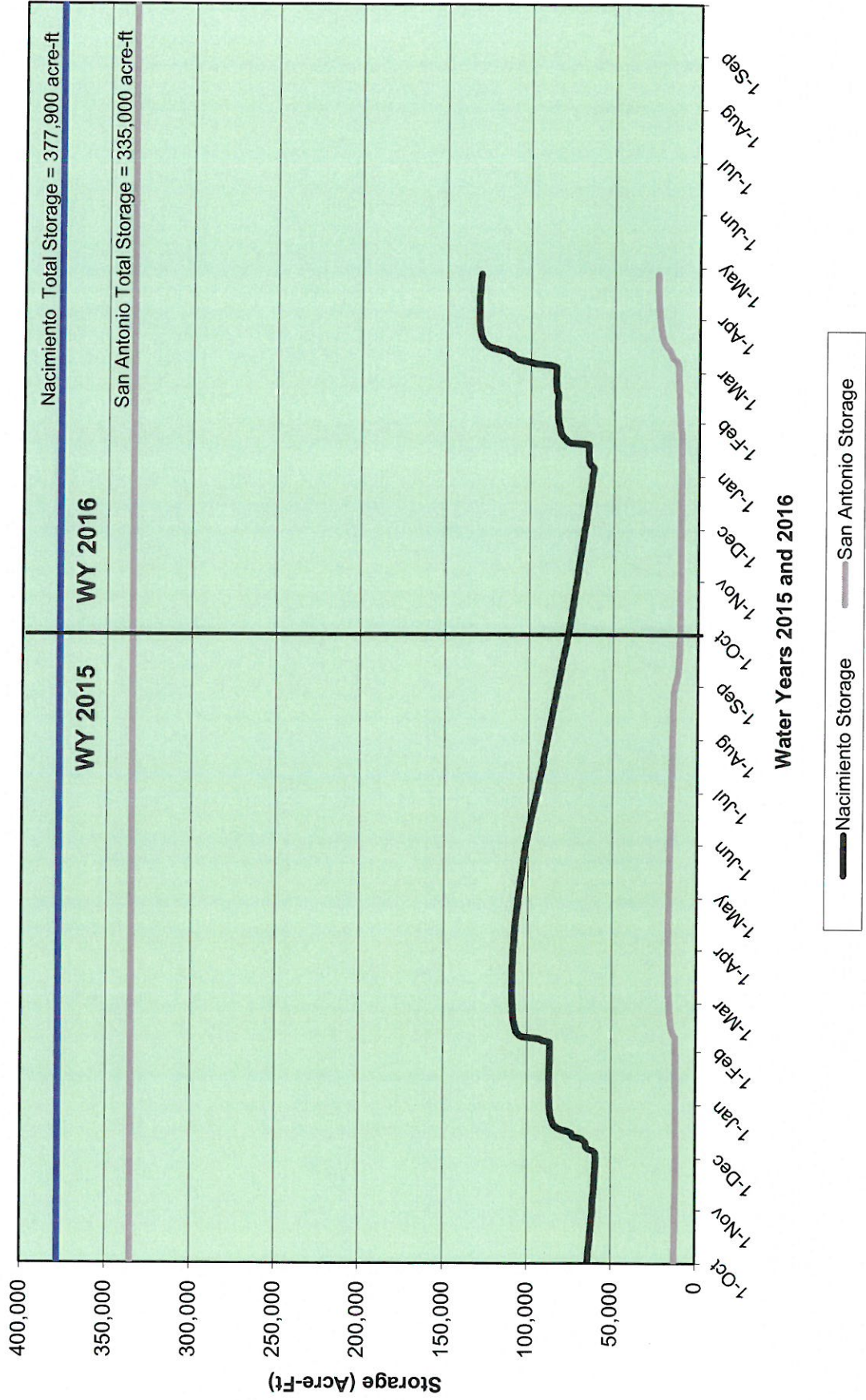
Releases as of April 27, 2016:

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

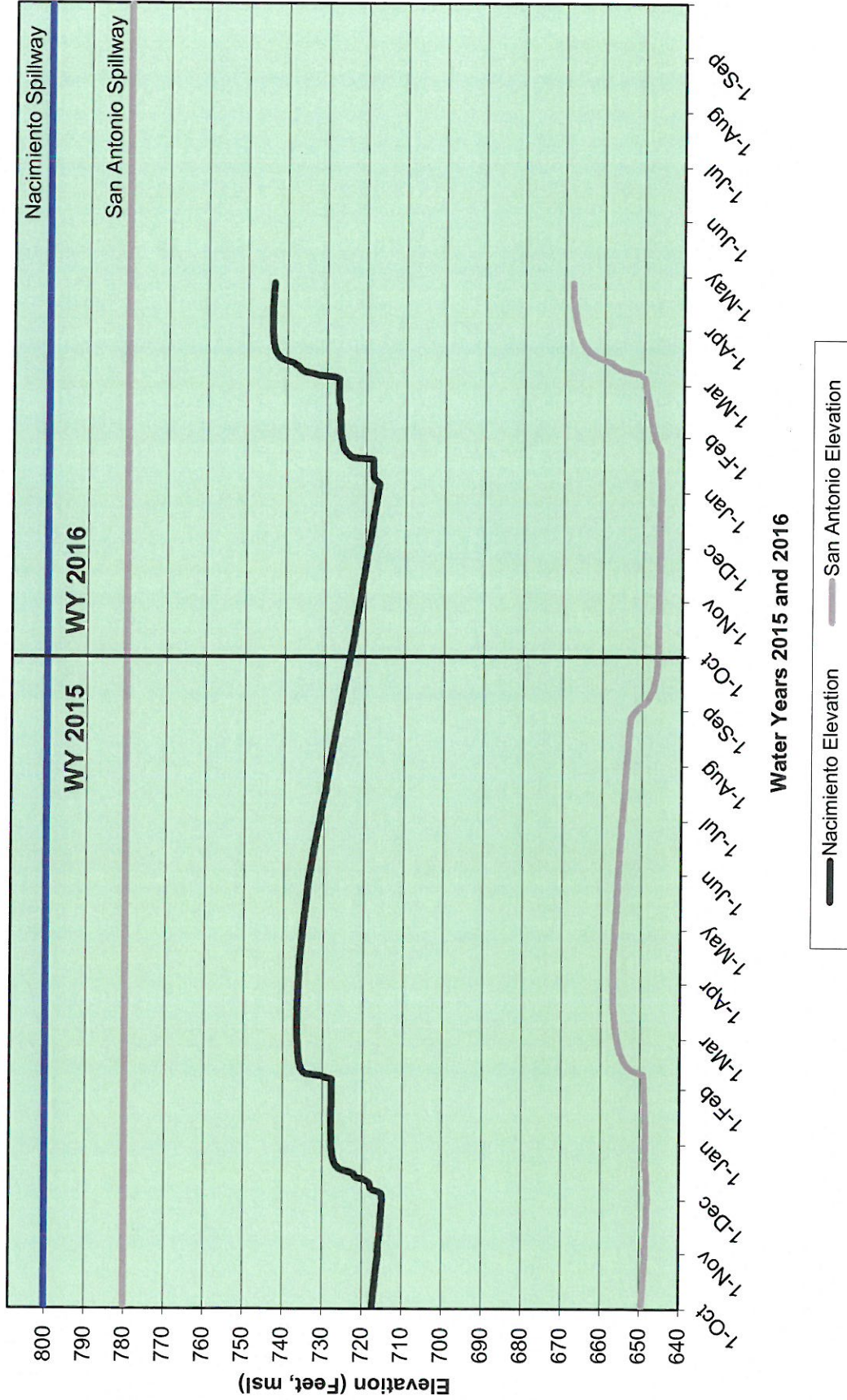
Total releases from both reservoirs to the Salinas River are approximately 63 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 56 cfs (steady)

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY

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

4/27/2016

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	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	TBR	130,685	743.7	222	3	179	23,630	666.6
5/1/2016	63	3,874	1,407	60	3,689	1,112	TBR	128,856	743.1	393	3	184	24,696	667.9
6/1/2016	63	3,749	1,895	60	3,570	2,106	TBR	122,648	741.1	532	3	179	24,119	667.2
7/1/2016	63	3,874	1,994	60	3,689	2,121	TBR	115,077	738.5	565	3	184	23,408	666.3
8/1/2016	63	3,874	1,821	60	3,689	2,121	TBR	107,273	735.7	515	3	184	22,659	665.4
9/1/2016	63	3,749	1,459	60	3,570	1,686	TBR	99,642	732.9	416	3	179	21,960	664.5
10/1/2016	63	3,874	1,022	60	3,689	1,189	TBR	92,926	730.3	296	3	184	21,365	663.7
11/1/2016	63	3,749	501	60	3,570	631	TBR	87,026	727.9	157	3	179	20,885	663.0
12/1/2016	63	3,874	309	60	3,689	354	TBR	82,324	726.0	96	3	184	20,549	662.6
1/1/2017								77,972	724.1				20,268	662.2
TOTALS:		45,736	12,184		43,558	14,724	968			3,454		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.

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: