

**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, April 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 March 3, 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 and a multi-year maintenance plan for the Nacimiento Dam.
- 7. Receive report regarding Nacimiento Hydroelectric Plant Improvements.**
Staff will present a verbal report discussing Nacimiento Hydroelectric Plant operations and planned improvements.
- 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, March 3, 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, Mark Nielsen, Mark Gonzalez, John Baillie, Benny Jefferson, Dean Benedix, Michael Tozzi,
Members absent: David Pozzi, Mark Sandoval

Bill Stevens and Joel Casagrande, 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 FEBRUARY 4, 2016**

ACTION: On motion and second of Committee members Jefferson and Ortiz, 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 63 cfs in the Salinas River near the Bradley gage. End of flow in the Salinas River is at river mile 71.3, approximately 3 miles upstream of King City. For this year, Nacimiento Reservoir has received a net increase of 22,007 acre-feet of storage and San Antonio has received a net increase of 2,001 acre-feet of storage. Rainfall amounts expected the weekend of March 6th

and 7th are in the range of one to three inches in the Salinas Valley and five inches in the Santa Lucia Mountains.

Nacimiento Reservoir elevation is 726.95 feet and 84,680 acre-feet of storage, 22% of capacity, and current release is 60 cfs.

San Antonio Reservoir elevation is 649.65 feet and 12,358 acre-feet of storage, 4% of capacity, and current release is 3 cfs.

Public Comment: Nancy Isakson, Salinas River Channel Coalition

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 Operations Policy Subcommittee met on February 17, 2016, and will meet every two months. The next meeting is scheduled for April 20, 2016, at 10:00 a.m.

Public Comment: Bob Martin, Rio Farms

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 list of maintenance items for San Antonio was distributed.

7. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT

Brent Buche, Deputy General Manager, reported on this item. A meeting is scheduled with Nacimiento Regional Water Management Advisory Committee (NRWMAC) on March 18, 2016.

8. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

Michael Tozzi, Parks Department reported on this item.

B. EASEMENTS AND AGENCY LEASES

Chair David Hart reported on this item. Director Ekelund requested an update on illegal dumping.

C. UPDATE ON SAN LUIS OBISPO COUNTY ACTIVITIES

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

D. NATIONAL MARINE FISHERIES SERVICE

Bill Stevens and Joel Casagrande voiced concerns relating to the Interlake Tunnel Project. Elizabeth Krafft, Senior Hydrologist, stated a workshop is scheduled for March 8, 2016, to discuss reservoir and interlake tunnel operations criteria.

E. CLOUD SEEDING

Committee member John Baillie provided a statement.

9. **SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**
Items for discussion will include a Quagga Mussel report, and an update from staff about potential sources of funding increase. The next meeting is scheduled for Thursday April 7, 2016 at the Agency.
10. **ADJOURNMENT BY CHAIR DAVID HART AT 3:26 P.M.**

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	April 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:	April 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 March 31, 2016, San Antonio Reservoir is at an elevation of approximately 666.5 feet mean sea level (msl), 23,550 acre-feet of storage. Nacimiento Reservoir is at elevation 743.7 feet msl, 130,685 acre-feet of storage. San Antonio Reservoir is currently at 7% of storage capacity and Nacimiento Reservoir is at 35% of capacity.

From the Seasonal low in early January, San Antonio Reservoir has received a net increase of approximately 13,300 acre-feet of storage while Nacimiento Reservoir has received a net increase of approximately 68,700 acre-feet of storage.

RESERVOIR RELEASES: Minimum fisheries releases continue from both reservoirs.

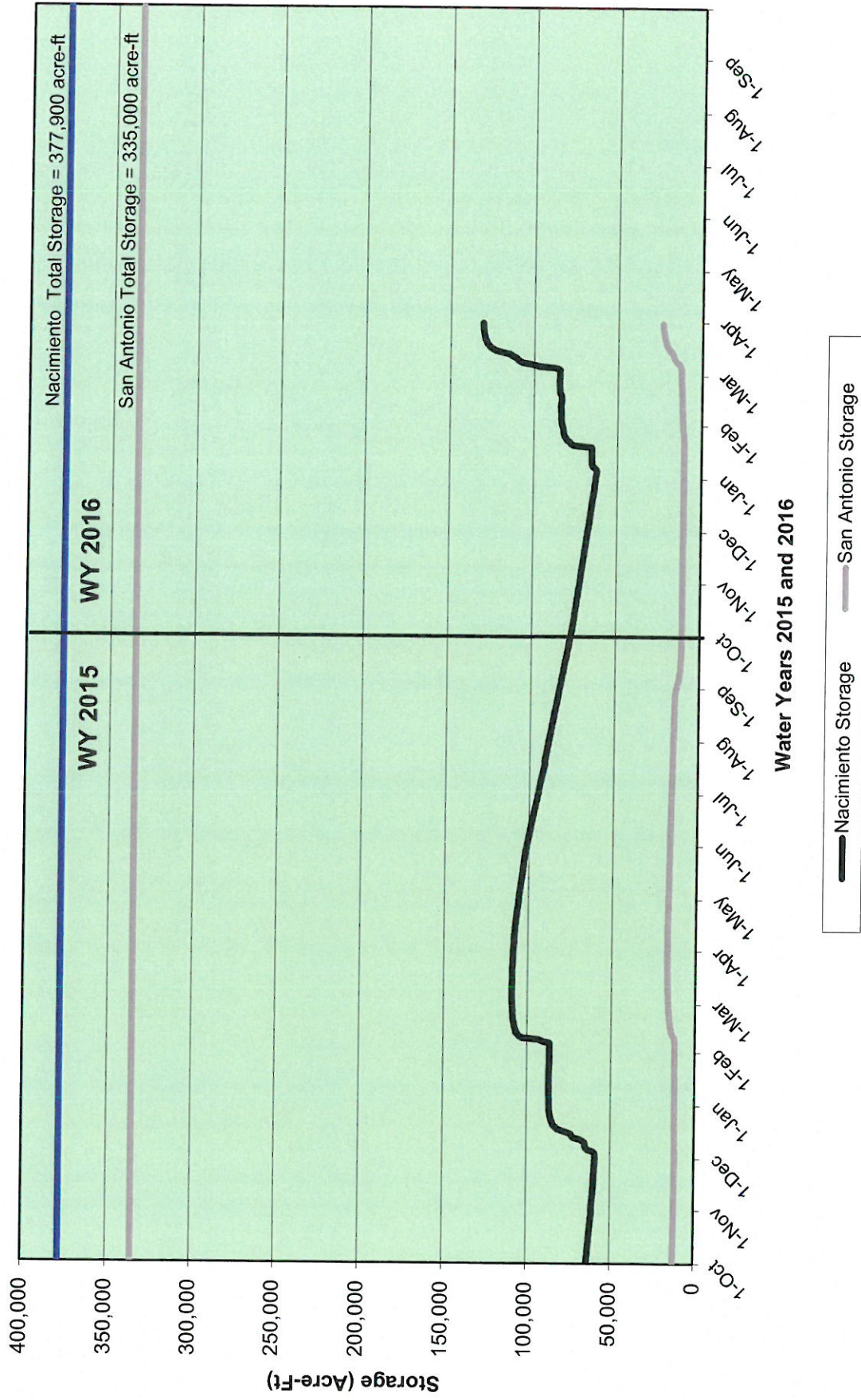
Releases as of March 31, 2016:

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

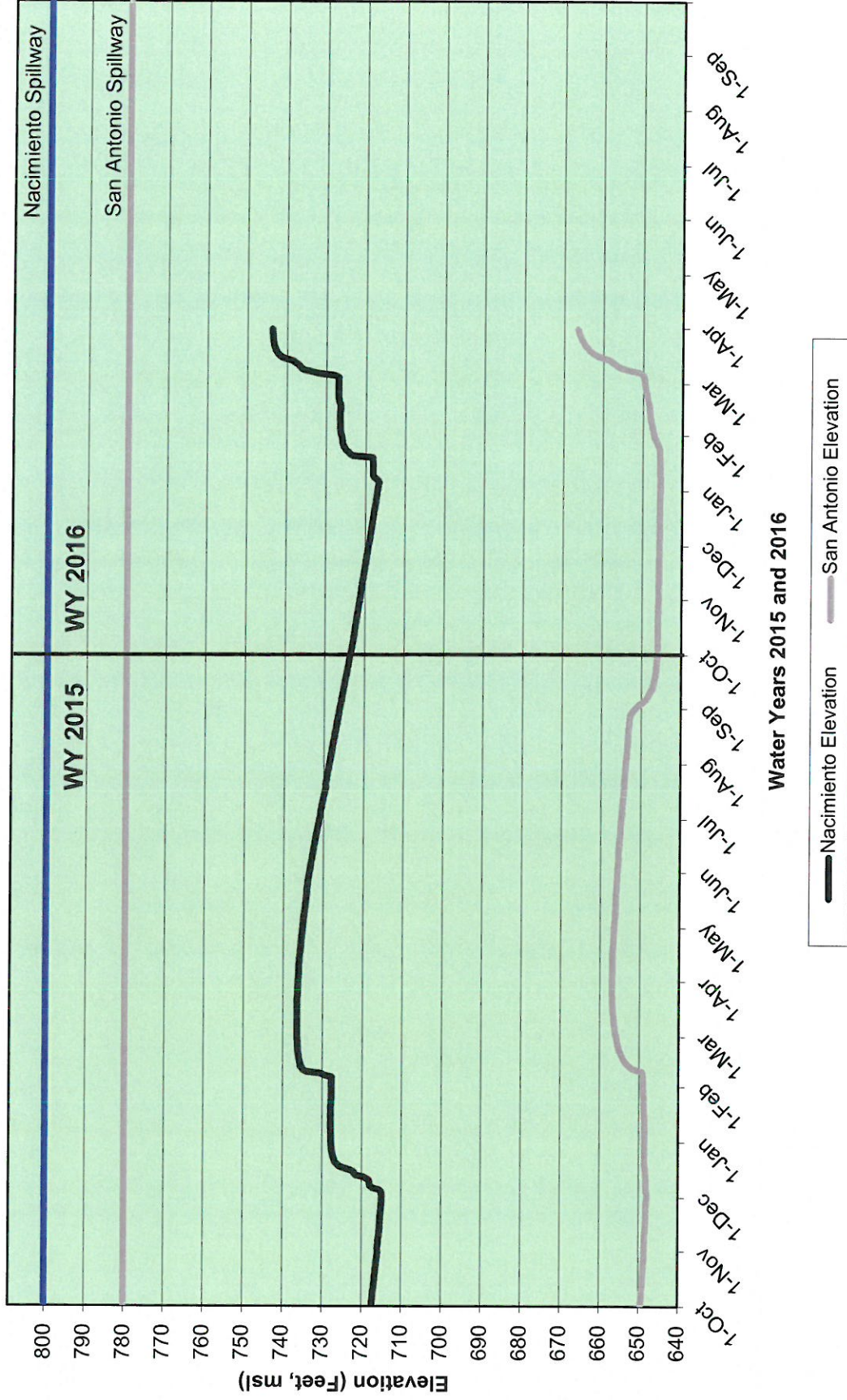
Total releases from both reservoirs to the Salinas River are approximately 63 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 50 cfs (steady)

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY

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

3/31/2016

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	263	60	3,689	348	247	62,755	717.0	67	3	184	10,254	645.5
2/1/2016	63	3,624	282	60	3,451	620	309	83,120	726.3	70	3	173	11,065	647.1
3/1/2016	63	3,874	600	60	3,689	931	931	84,680	727.0	141	3	184	12,282	649.5
4/1/2016	63	3,749	1,242	60	3,570	1,031		84,680	743.7	301	3	179	12,282	666.6
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														
TOTALS:		15,120	2,387		14,400	15,010	1,487			579		720		

* 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: