

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

COMMITTEE MEMBERS

Ken Ekelund, Chair
Richard Ortiz
Glen Dupree
John Baillie
Benny Jefferson
Jon Anthony
Kevin Pearcy

Eric Morgan
Bill Lipe
Mark Sandoval
Jill Ogren
Don Bullard
Matthew Simis
Vacant

TIME: 1:30 p.m.
DATE: Thursday, January 25, 2018
PLACE: Monterey County Water Resources Agency
Saffron Conference Room (1st Floor)
1441 Schilling Place, South Building
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 Advisory Committee Meeting held on November 30, 2017**
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, and 3a).

- 5. Review and discussion of release schedule**
Staff will review the release schedule (Attachment 4) and present environmental compliance reservoir operation requirements for this winter.
- 6. Status of the Operation Policy Manual for Nacimiento Dam**
Staff will provide a verbal report of the status of the Operation Policy Manual for Nacimiento Dam.
- 7. Report regarding Operations and Maintenance activities at the Reservoirs**
Staff will present a verbal report discussing the Operations and Maintenance activities at both reservoirs over the last month.
- 8. Report regarding Interlake Tunnel Project**
Staff will report on current activities regarding the Interlake Tunnel Project.
- 9. 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**
- 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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BOARD OF DIRECTORS
RESERVOIR OPERATIONS ADVISORY COMMITTEE**

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NOTE: Place of meeting has changed due to Agency's move to Schilling Place

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- 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 Advisory Committee Meeting held on November 2, 2017**
The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).
- 4. Review the status of both reservoirs, current 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. Consider receiving the Draft Nacimiento Dam Operation Policy and providing direction to staff**
Staff will present a summary of the changes made to the Draft Nacimiento Dam Operation Policy since the August Committee meeting.
- 6. Report regarding Operations and Maintenance activities at the Reservoirs**
Staff will present a verbal report discussing the Operations and Maintenance activities at both reservoirs over the last month.
- 7. Report regarding Interlake Tunnel Project**
Staff will report on current activities regarding the Interlake Tunnel Project.
- 8. Status reports on:**
 - A. Lake recreation by Concessionaire and Parks Department**
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 - C. Quagga / Zebra Mussel Plan**
 - D. San Luis Obispo County Activities**
 - E. National Marine Fisheries Service**
 - F. Cloud Seeding**
 - G. Legislative items**
- 9. Set next meeting date and discuss future Agenda items**
The Committee will discuss and determine details for its next meeting.
- 10. Adjournment**

**AMONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS – RESERVOIR OPERATIONS ADVISORY COMMITTEE**

MEETING DATE:	January 25, 2018	AGENDA ITEM:
Consent () Action () Information (X)		
DEADLINE FOR BOARD ACTION:	January 25, 2018	

..Title

Reservoir Release Update

..Report

RECOMMENDATION:

None – item presented for informational purposes.

SUMMARY/DISCUSSION:

The Reservoir Operations Advisory Committee receives monthly updates on the status of Agency reservoirs.

RESERVOIR ELEVATION / STORAGE: As of January 18, 2018 San Antonio Reservoir is at an elevation of approximately 720.45 feet mean sea level (msl), 104,953 acre-feet of storage. Nacimiento Reservoir is at elevation 751.8 feet msl, 157,160 acre-feet of storage. San Antonio Reservoir is currently at 31% of storage capacity and Nacimiento Reservoir is at 42% of capacity.

The Salinas River mouth is currently closed to the ocean.

RESERVOIR RELEASES: Minimum fisheries releases of 60 cfs from Nacimiento Reservoir and 10 cfs from San Antonio Reservoir are currently being made in accordance with the Salinas Valley Water Project Biological Opinion.

Minor fluctuations in release rates are not presented in this report but are documented in the Salinas Valley Water Project Annual Flow Reports.

Releases as of January 18, 2018:

- Nacimiento Reservoir: 60 cfs
- San Antonio Reservoir: 10 cfs

Total releases from both reservoirs to the Salinas River are approximately 70 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 at Soledad: 0 cfs
- Salinas River near Bradley: 75 cfs (steady)

OTHER AGENCY INVOLVEMENT:

None

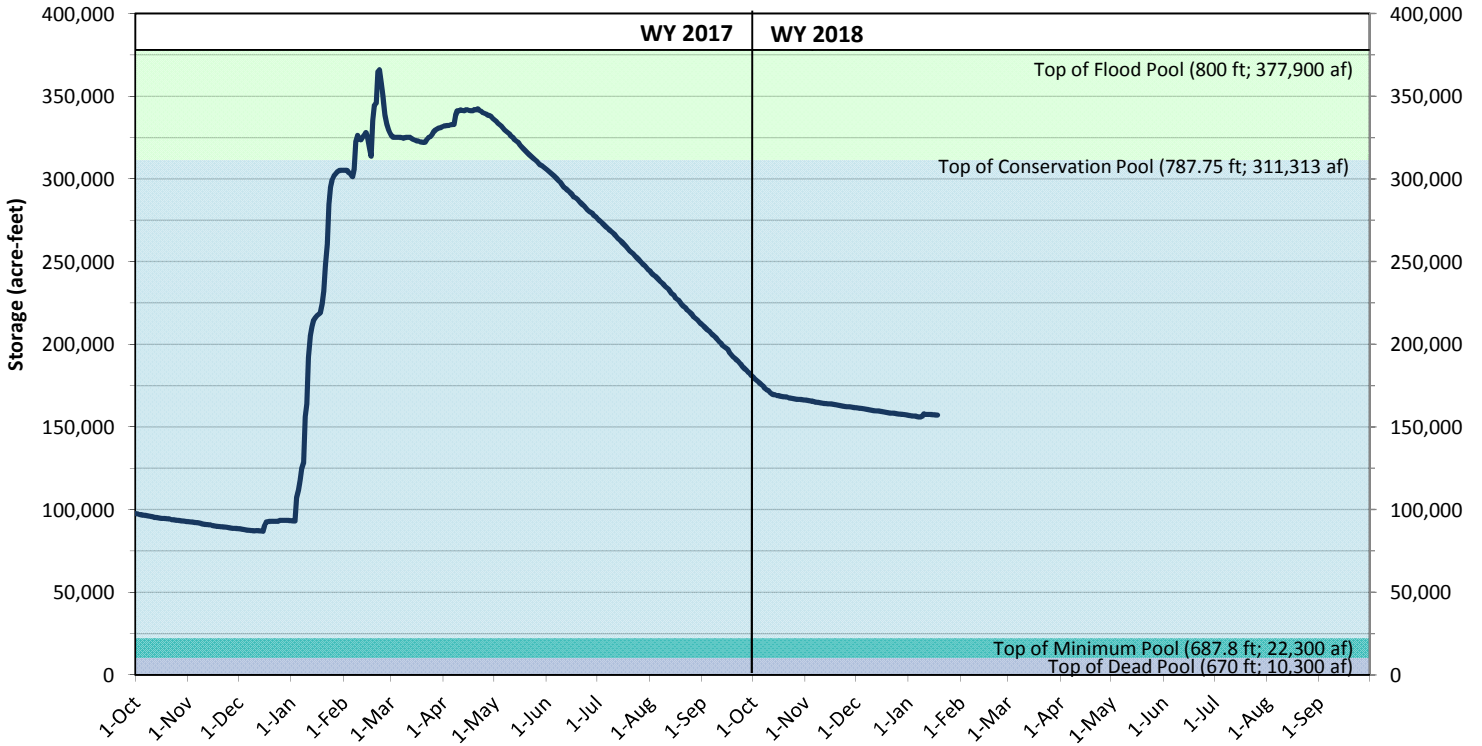
FINANCING:

None

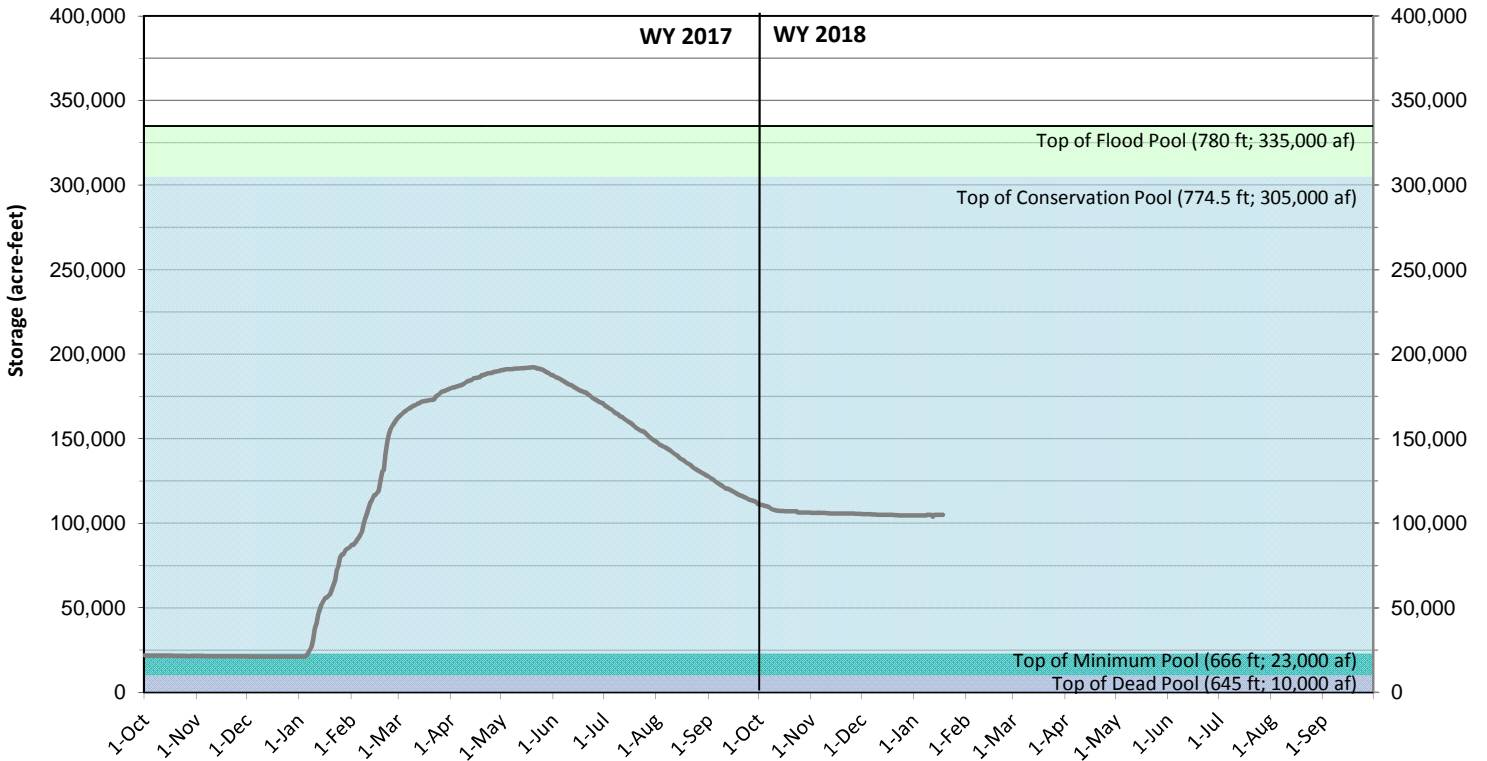
Prepared by: Germán Criollo, Associate Hydrologist, (831) 755-4860
Jason Demers, Hydrologist, (831) 755-4860

Reservoir Storage

Nacimiento Reservoir



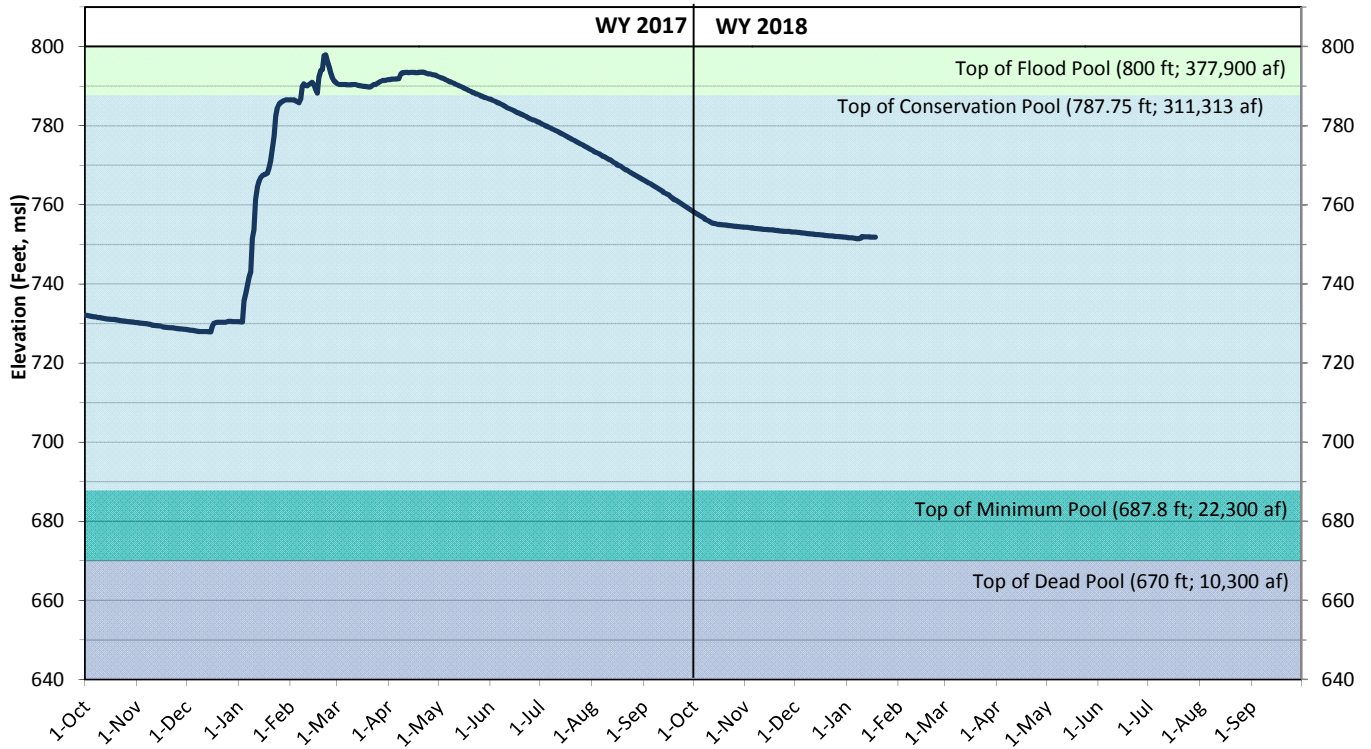
San Antonio Reservoir



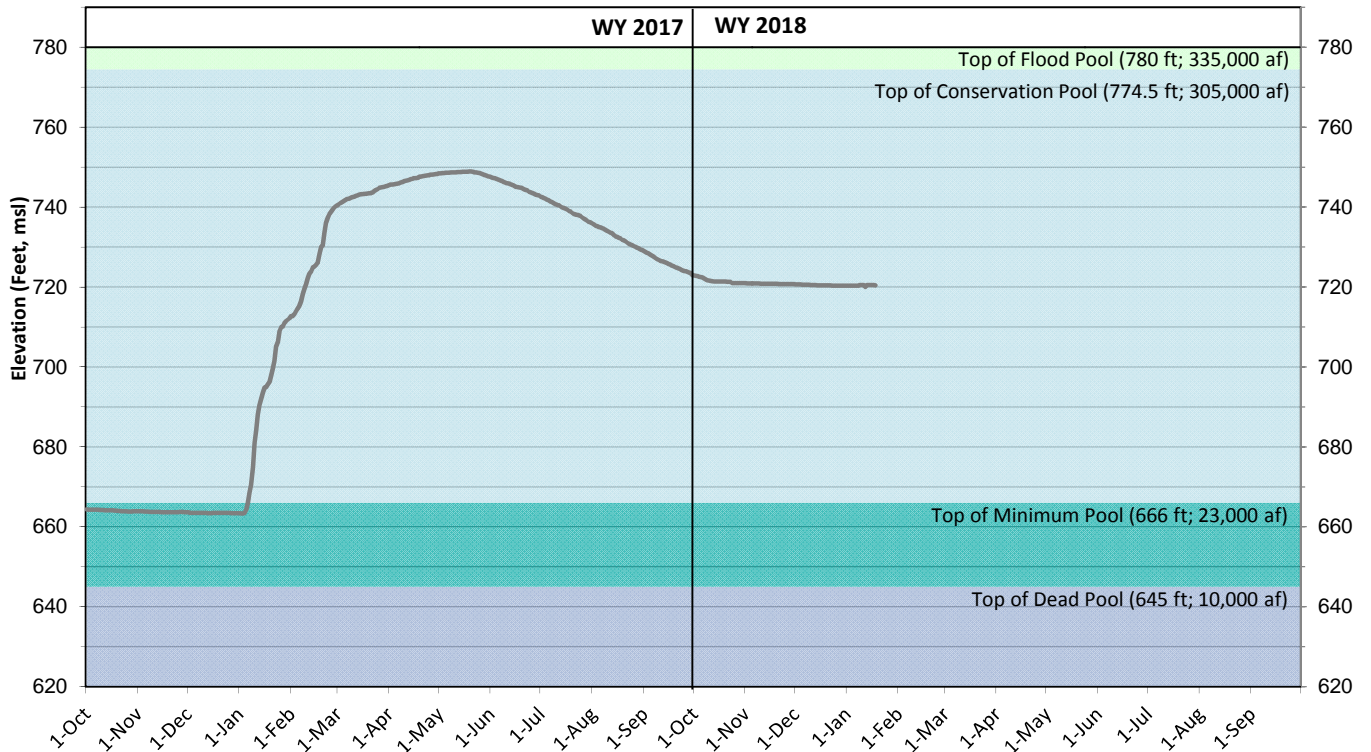
Dead Pool
 Minimum Pool
 Conservation Pool
 Flood Pool
 Spillway

Reservoir Elevation

Nacimiento Reservoir



San Antonio Reservoir



■ Dead pool
 ■ Minimum Pool
 ■ Conservation Pool
 ■ Flood Pool
 — Spillway

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

1/18/2018

	RESERVOIR RELEASE SCHEDULE FOR 2017													
	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)
1/1/2017								93,275	730.5				21,150	663.4
2/1/2017	159	9,804	494	156	9,620	386	330	305,178	786.6	161	3	184	87,205	712.7
3/1/2017	3,403	189,022	566	3,400	188,855	760	101	326,230	790.6	404	3	167	162,993	740.6
4/1/2017	320	19,706	1,161	317	19,522	784	332	331,828	791.7	747	3	184	179,848	745.5
5/1/2017	310	18,437	1,338	307	18,258	881	434	335,573	792.4	1,122	3	179	190,460	748.4
6/1/2017	617	37,925	1,879	526	32,357	2,012	483	305,683	786.7	1,629	91	5,568	187,175	747.5
7/1/2017	739	43,974	2,780	458	27,263	2,206	534	275,780	780.6	2,121	281	16,711	169,920	742.6
8/1/2017	787	48,382	3,057	453	27,852	2,221	547	244,160	773.8	2,083	334	20,529	148,040	735.9
9/1/2017	817	50,226	3,263	490	30,143	2,221	474	211,470	766.2	1,719	327	20,083	127,550	729.0
10/1/2017	760	45,194	1,904	495	29,475	2,106	520	180,100	758.2	1,317	264	15,719	111,095	722.9
11/1/2017	296	18,185	1,427	215	13,246	1,189	568	166,174	754.4	861	80	4,939	106,178	721.0
12/1/2017	70	4,165	632	60	3,570	631	406	161,661	753.1	343	10	595	105,443	720.7
1/1/2018	69	4,243	746	59	3,628	354	408	156,988	751.8	440	10	615	104,585	720.3
TOTALS:		489,262	19,246		403,789	15,750	5,136			12,948		85,473		

* Mean daily flow for the month in cubic feet per second.

** Future Evap. Losses estimated from long term pan evaporation data at Nacimiento and San Antonio Reservoirs and replaced with calculated values once available.

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 June 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.
7. NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.
8. NACIMIENTO "NWP Orders" after 9/1/17 are estimated and will be replaced with actual orders once they are received.