



# PRESENTATION

## Castroville Seawater Intrusion Project (CSIP) Water Supply Status





# Discussion

- CSIP Supplemental Well Status
- Salinas Valley Recycling Project (SVRP) Status
- Current Water Demand
- Scheduled Irrigation

## CSIP Supplemental Well Status (as of May 23, 2016)

Well No.	Available	Out	Well No.	Design GPM	Actual GPM	Actual ac*ft/day	Comments	
01C1		√	01C1	2400	850	3.8	Cavitating due to low water levels	
02A2	√		02A2	2300	2200	9.7		
02C3	√		02C3	2000	1700	7.5		
03H1	√		03H1	4000	3800	16.8		
03R50	√		03R50	1700	1100	4.9		Sand Separator installed
10E2		√	10E2	2700	1500	6.6		High Chlorides. Holes in casing. Gravel plugging pump inlet.
10H	√		10H	3500	2900	12.8		Obstruction/collapse of casing at 460'. Plan is to abandon.
11B1	√		11B1	1700	1400	6.2		
11M3	√		11M3	1500	1400	6.2		
14A1		√	14A1	2800	1200	5.3		Chlorides 574 mg/L.
15A1	√		15A1	1600	1400	6.2		
15C2		√	15C2	2200	2000	8.8		Chlorides 556 mg/L.
22B1	√		22B1	3000	2400	10.6		
22L	√		22L	2000	1900	8.4		
NEW 2	√		NEW 2	4800	2300	10.2		Clean up pumping cost ±\$61k
NEW 1		√	NEW 1	4800			Destroyed June 2012.	
New 4		√	New 4	4800			To be destroyed.	
14L3		√	14L3	2800			To be destroyed.	
NEW 5		√	NEW 5	4800			Out of service due to regional seawater intrusion.	
01P50		√	01P50	2400			Out of service due to poor regional water quality.	
NEW 3		√	NEW 3	4800			Out of service due to regional seawater intrusion.	
<b>Total:</b>	<b>21</b>	<b>11</b>		<b>62,600</b>	<b>22,500</b>	<b>99</b>		





# Discussion

- SVRP
  - RTP typical inflow =  $\pm$  50 acre feet (16.6 MGD)
  - Salinas industrial inflow =  $\pm$  10 acre feet (3.5 MGD)
    - Industrial water taken offline 05/16/16. Biologic processes at plant affected by industrial water.
    - No crop safety issues.



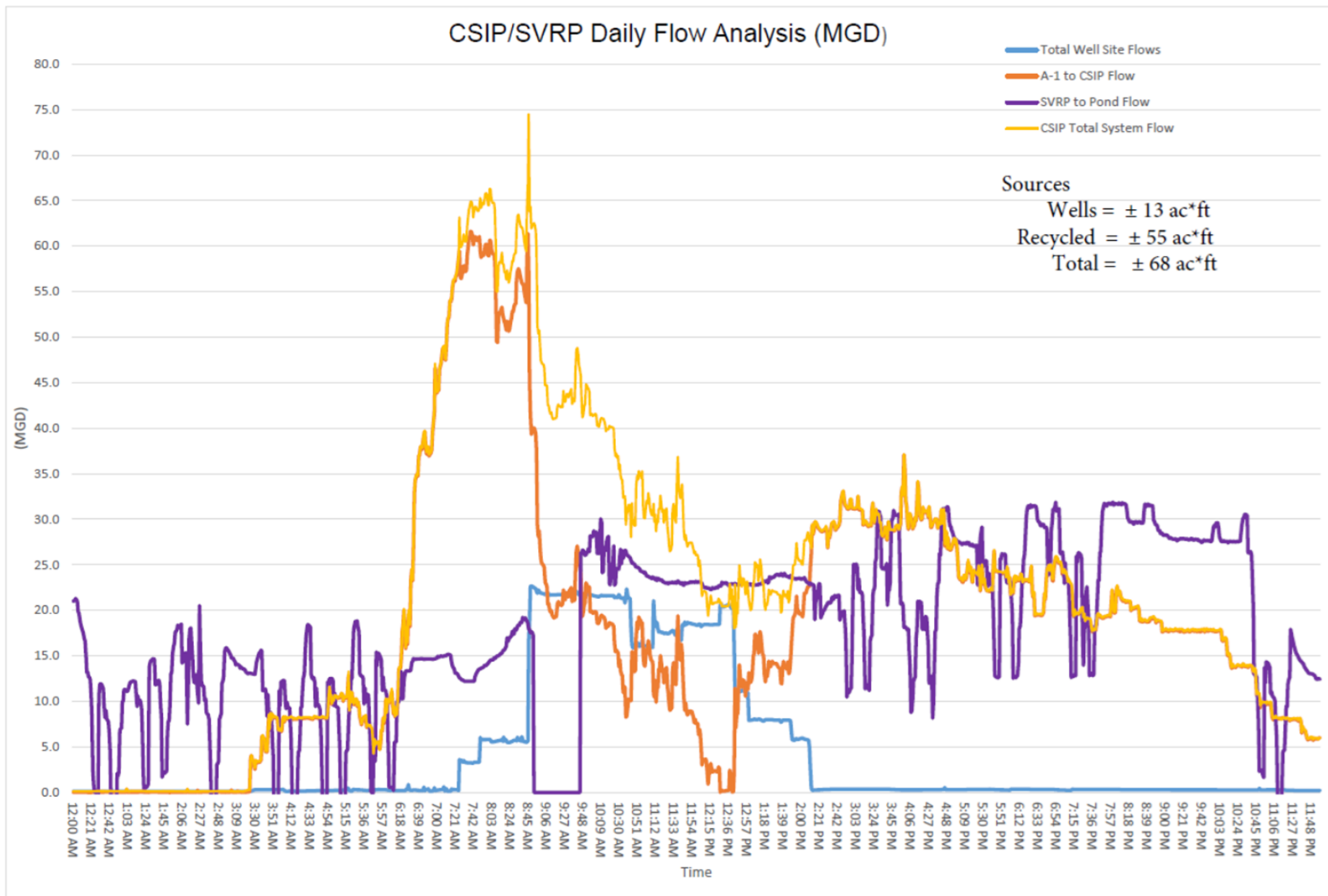
# Discussion (cont.)

- Current Water Demand
  - 124 ac\*ft (05/21/16)
    - All available wells run 13-20 hours
    - Wells delivered 63 ac\*ft
    - SVRP 61 ac\*ft
- System Capacity
  - SVRP + Wells = 150 ac\*ft (46.5 MGD)
  - SVRP + Wells + Industrial = 160 ac\*ft (52 MGD)



# Discussion (cont.)

- Scheduled Irrigation
  - Implementation of scheduled irrigation may be necessary if daily demand exceeds 130 ac\*<sup>3</sup>ft/day (43 MGD), SVRP goes offline, supplemental well loss.
  - System pressure becomes limiting factor.
  - A grower designed scheduling procedure has been discussed at WQ&Ops (05/19/16).
    - The goal of scheduled irrigation would be to reduce system flows and flatten irrigation demand peaks.
    - Example- 40,000 gpm \* 16 hrs. = 115 ac\*<sup>3</sup>ft (38 MGD).



May 9<sup>th</sup>, 2016





# Castroville Seawater Intrusion Project (CSIP) Water Supply Status









# PRESENTATION

## Illegal Encampments and Its Impact on Waterways Managed by Monterey County Water Resources Agency





# Discussion

- The purpose of this presentation is to identify the magnitude of the situation being experienced by the MCWRA Maintenance Crew
- As fast as the sites are being cleaned, people are coming right back in
- There needs to be a plan established
- MCWRA staff is essentially a “maid service” We go in and clean it up and then it gets “trashed” again



## Discussion (cont.)

- Bedding, furniture, clothes, shopping carts, bikes, appliances, human waste, needles, personnel belongings

# Discussion (cont.)



# Discussion (cont.)





# Discussion (cont.)



# Discussion (cont.)





# Discussion (cont.)



# Discussion (cont.)



# Discussion (cont.)





# Discussion (cont.)





# Discussion (cont.)



# Discussion (cont.)





# Discussion (cont.)





# Discussion (cont.)







# Discussion (cont.)





# Discussion (cont.)





# Discussion (cont.)





# Discussion (cont.)

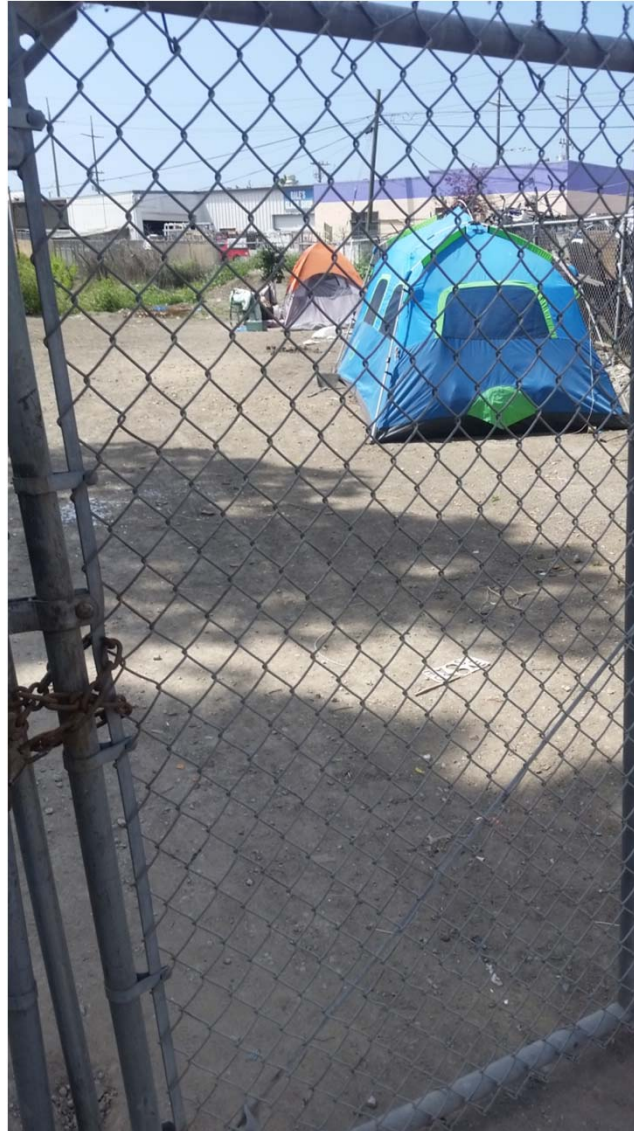




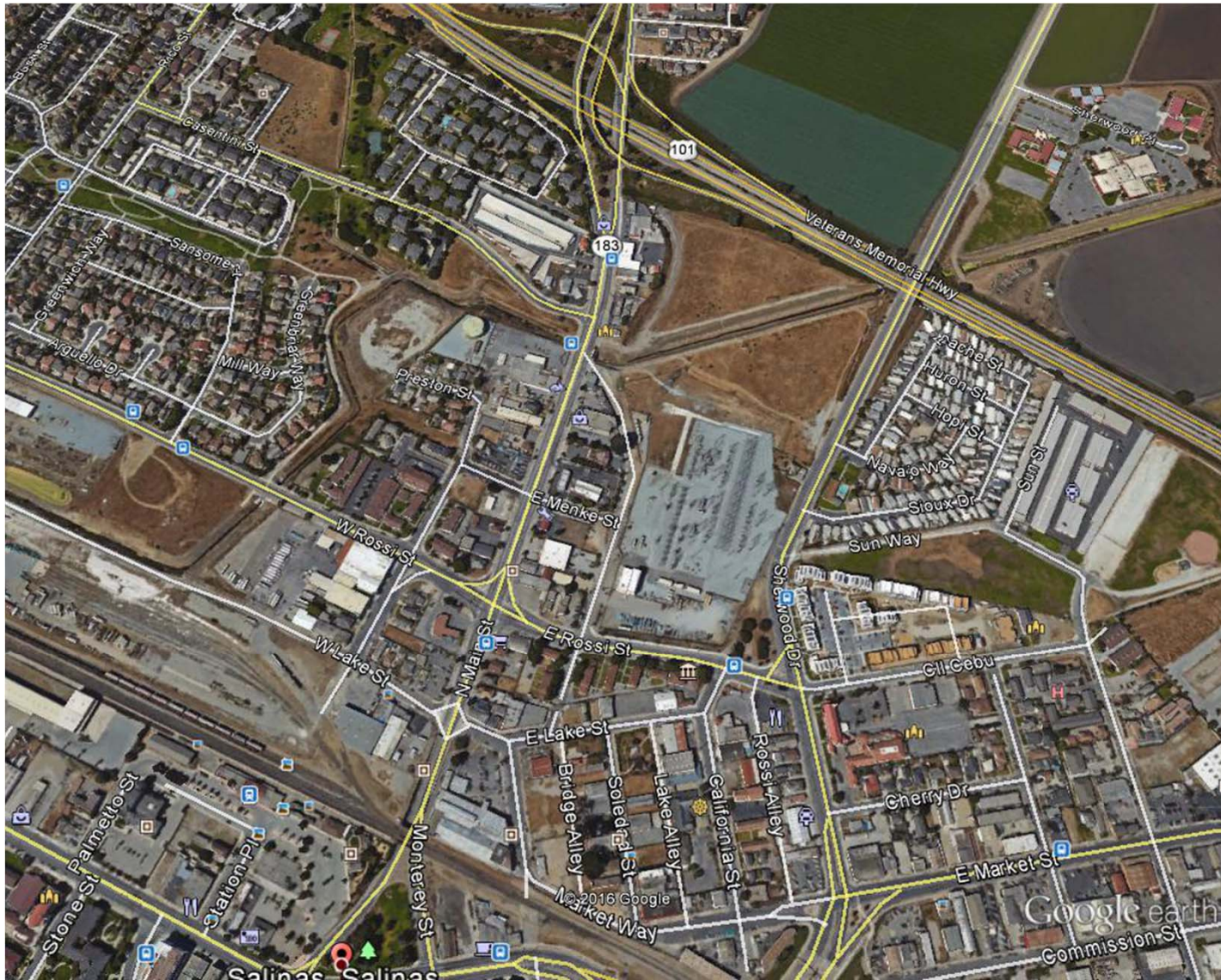
# Discussion (cont.)



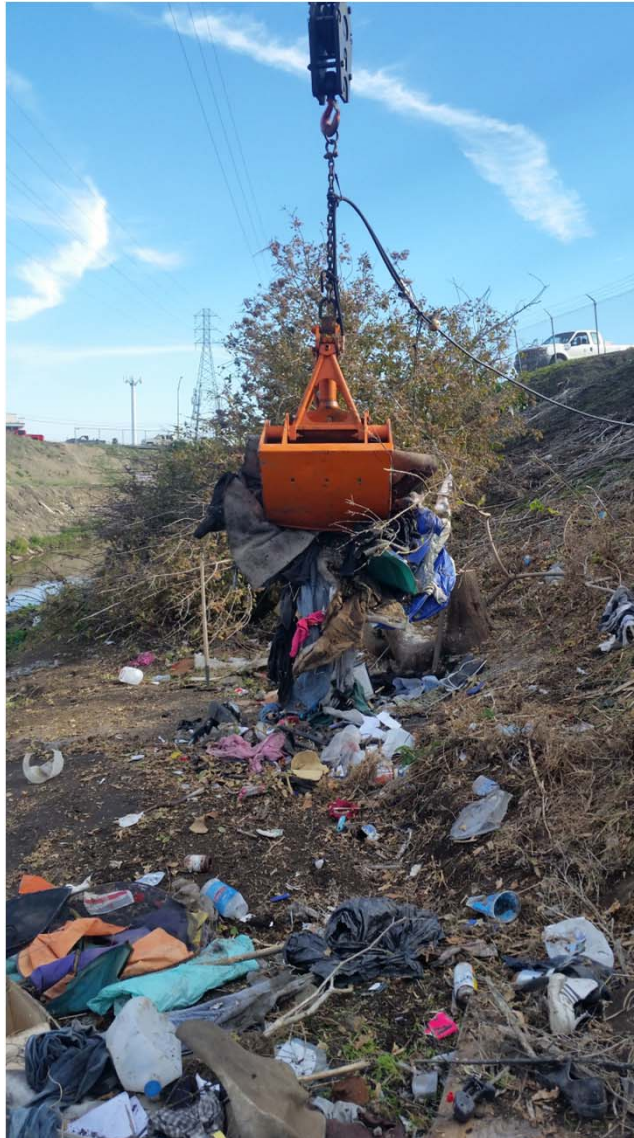
# Discussion (cont.)



# Discussion (cont.)



# Discussion (cont.)







# Discussion (cont.)

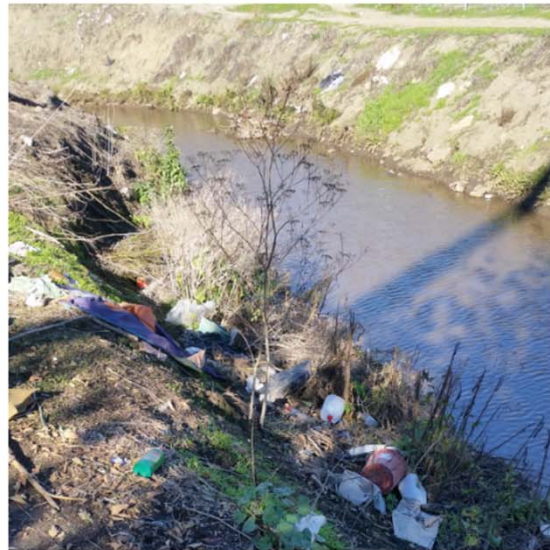
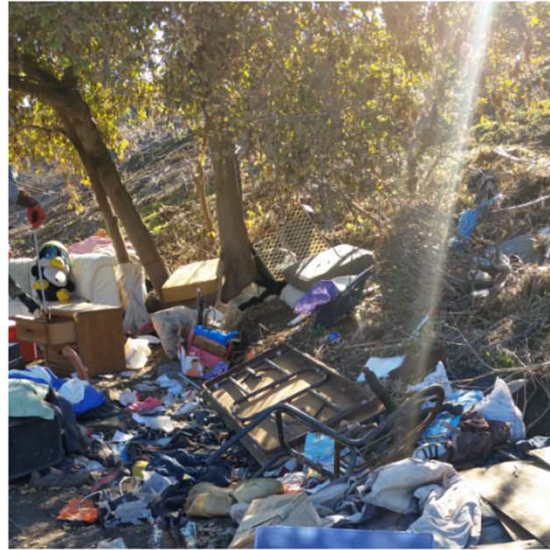
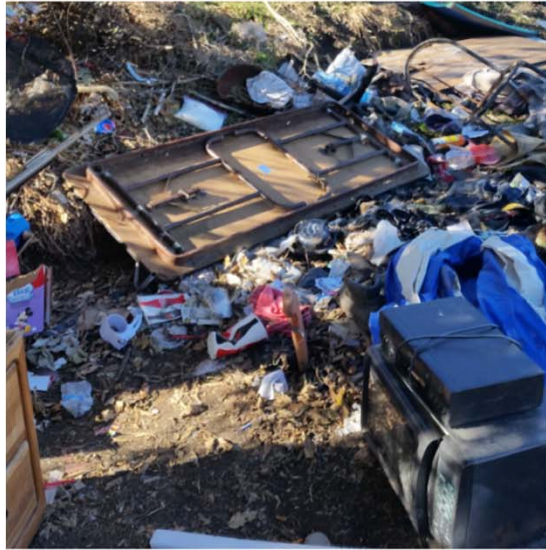




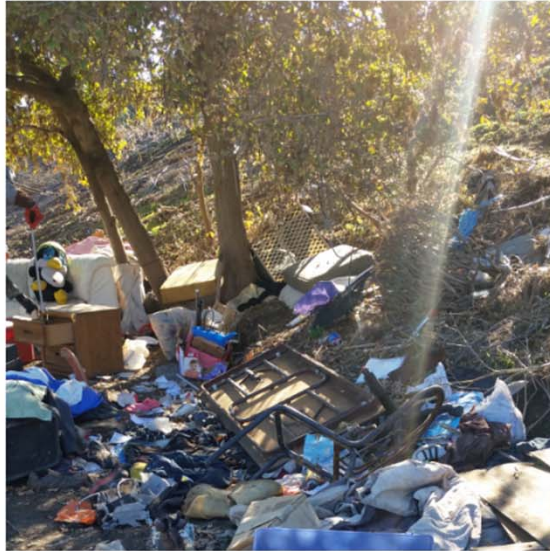
# Discussion (cont.)



# Discussion (cont.)



# Discussion (cont.)





# **Illegal Encampments and Its Impact on Waterways Managed by Monterey County Water Resources Agency**







# TODAY'S ACTION

A. Consider Approving and Recommending that the Monterey County Water Resources Agency Board of Supervisors Approve a Professional Services Agreement with Raftelis Financial Consultants, Inc., in the Amount of \$110,360 to:

- a. Conduct a Review and Analysis of the Agency's Assessments and Benefits for Zones 2B, 2Y, 2Z Including Water Delivery/Service Charges;
- b. Provide an Updated Assessment Methodology and Analysis, and a Cost of Service Approach to be Considered by these Taxpayers; and
- c. Authorize the General Manager to Execute the Agreement, Substantially in the Form Attached, and Subject to Approval by County Counsel.





# Discussion

- On February 29, 2106, the Agency Board of Directors approved the Raftelis Financial Consultants, Inc. proposal.
- At the Finance Committee Meeting on March 11, 2016 prior to the proposal being scheduled for the WRA BOS March 15, 2016 meeting, the Agency Finance Committee raised concerns about the Raftelis scope of work being too broad and requested that it be narrowed to the current concerns regarding the benefit assessments in Zones, 2B, Y, Z and water delivery/service charges.
- The Agency received a letter from Mr. Thomas Versik, Law Offices of Patrick J. Maloney, outlining some concerns regarding the Raftelis proposal scope of work not recognizing the Orradre settlement and other events when analyzing either past or potential future benefits.





## Discussion (cont.)

- On March 28, 2016 at the Agency's FY 2016-17 Budget Workshop, several Board Director's requested that the Agency limit the Raftelis scope of work to Zones 2B, 2Y, 2Z and address the imbalance in revenue for the CSIP/SVRP/SRDF projects including water delivery/service fees while the SRDF continues to remain shut down.
- It was decided that for the FY 2016-17 Requested Budget that the Agency expeditiously work to correct the revenue imbalance for the water delivery/service charges collected for the SRDF and CSIP.



## Discussion (cont.)

- Mr. Habib Isaac, Raftelis Project Manager, constructed the revised scope of work focusing exclusively on the immediate financial concerns regarding the benefits and assessments collected for Zones 2B, 2Y, and 2Z including water delivery/services charged in these zones.
- The revised scope of work is comprised of three major tasks: Review of Agency Benefit Assessments and Ongoing Project Management, Updated Assessment Methodology/Analysis, and Cost of Service Approach.



# TODAY'S ACTION

A. Approve and Recommend that the Monterey County Water Resources Agency Board of Supervisors Approve a Professional Services Agreement with Raftelis Financial Consultants, Inc., in the Amount of \$110,360 to:

- a. Conduct a Review and Analysis of the Agency's Assessments and Benefits for Zones 2B, 2Y, 2Z Including Water Delivery/Service Charges;
- b. Provide an Updated Assessment Methodology and Analysis, and a Cost of Service Approach to be Considered by these Taxpayers; and
- c. Authorize the General Manager to Execute the Agreement, Substantially in the Form Attached, and Subject to Approval by County Counsel.







# TODAY'S ACTION

Consider Adopting a Release Schedule for  
Nacimiento and San Antonio Reservoirs for  
2016





# Financial Impact

- None



# Committee Action

- Reservoir Operations Committee recommended at their May 5, 2016 meeting that the full Board of Directors adopts the proposed Reservoir Release Schedule



# Discussion

- Drought conditions and emergency repairs in the past 5 years have resulted in low reservoir level conditions
- Inability to operate Salinas River Diversion Facility (SRDF) for the last two seasons





# Discussion (cont.)

Winter	Nacimiento Net Inflow (ac-ft)	San Antonio Net Inflow (ac-ft)
2011-2012	14,750	8,350
2012-2013	56,252	19,882
2013-2014	7,500	195
2014-2015	50,513	5,122
2015-2016	68,700	14,500





## Discussion (cont.)

- Current Reservoir Conditions (5/20/16):

	Nacimiento	San Antonio
Percentage of Capacity	33%	7%
Elevation (ft)	742.2	667.9
Storage (ac-ft)	126,110	24,670
Releases (cfs)	60	3



## Discussion (cont.)

- Prior to bringing Release Schedule to the Board (January - April)
  - Reservoir conditions and streamflows were monitored daily to assess operation needs for flood control or compliance of steelhead migration requirements purposes
  - None of the above operations were needed last winter
  - Vaki Weir was installed and removed
  - Update of conditions were presented to Res Ops Committee on a monthly basis



## Discussion (cont.)

- Proposed Reservoir Release Schedule for 2016:
  - Consistent with Salinas Valley Water Project National Marine Fisheries Service Biological Opinion (BO) and water rights held by the Agency.
  - BO and water rights require mean daily flows equal to or greater than 2 cubic feet per second (cfs) at the Salinas River Lagoon if releases are made to operate the SRDF or to recharge the groundwater basin



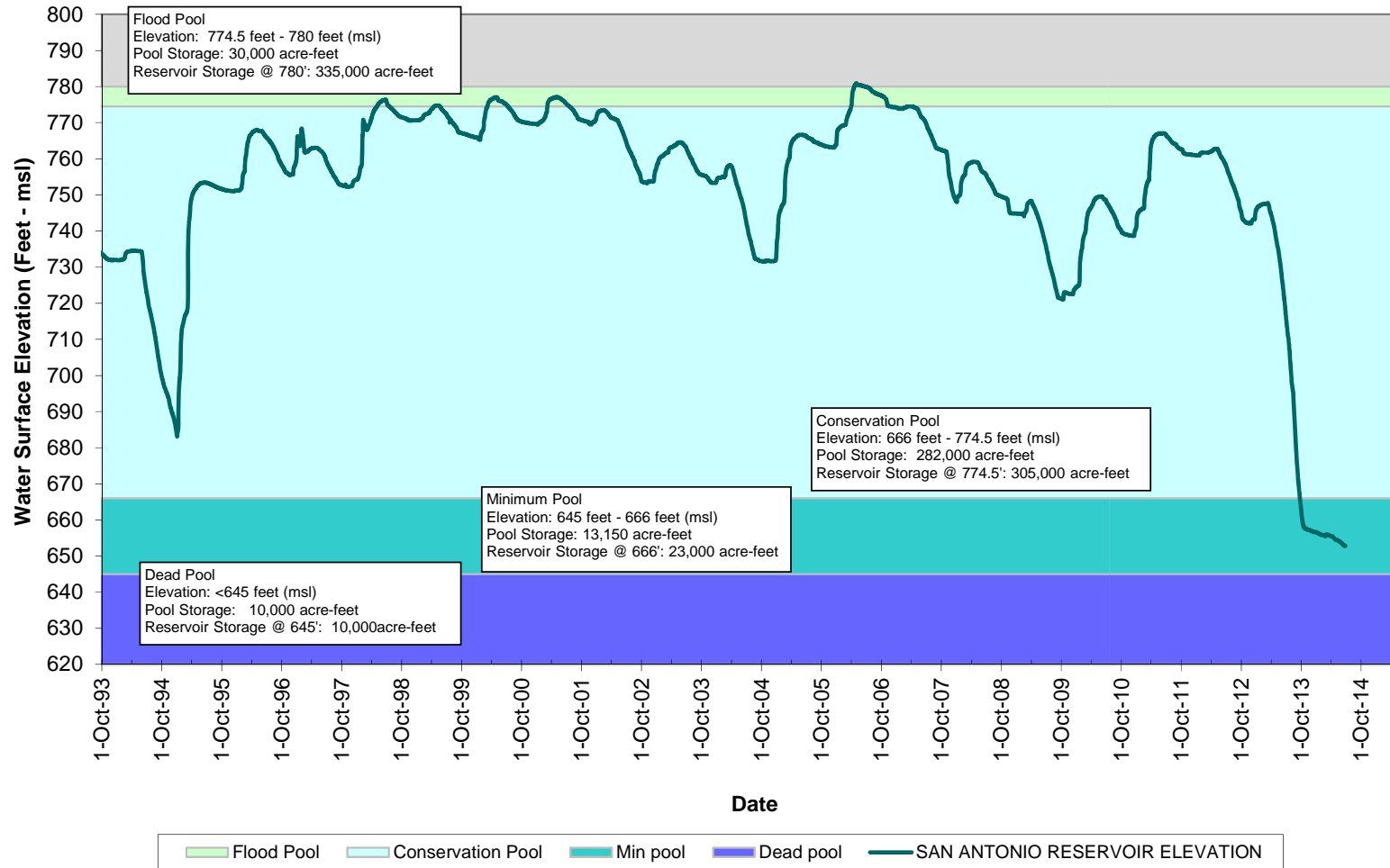
## Discussion (cont.)

- Proposed Reservoir Release Schedule for 2016:
  - Provides no releases to recharge the groundwater basin or to operate the SRDF
    - Dry channel conditions require reservoir releases in excess of 600 cfs to achieve 2 cfs at the lagoon
    - Current reservoir water levels allow a maximum combined release capacity of approximately 400 cfs
  - Provides Minimum Flow for fish habitat below the dams
    - 60 cfs out of Nacimiento and 3 cfs out of San Antonio



# SAN ANTONIO RESERVOIR ELEVATION

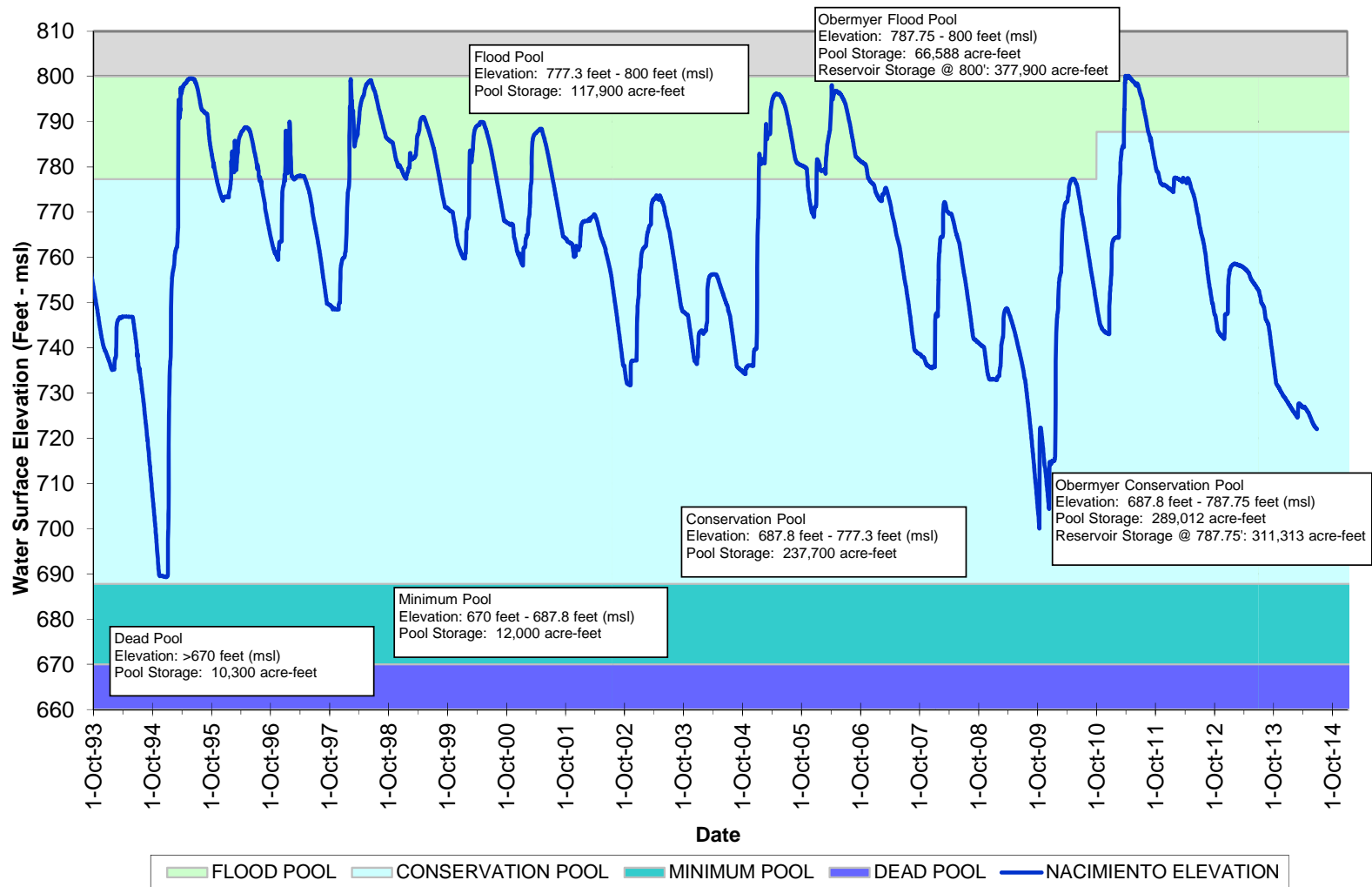
Elevation on: June 27, 2014





### NACIMIENTO RESERVOIR ELEVATION

Elevation on: June 27, 2014



**PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after May 1<sup>st</sup>**

5/5/2016

<b>RESERVOIR RELEASE SCHEDULE FOR 2016</b>														
	<b>NACIMIENTO</b>								<b>SAN ANTONIO</b>					
	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)
<b>1/1/2016</b>								<b>62,755</b>	<b>717.0</b>				<b>10,254</b>	<b>645.5</b>
<b>2/1/2016</b>	63	3,874	208	60	3,689	576	247	<b>83,120</b>	<b>726.3</b>	67	3	184	<b>11,065</b>	<b>647.1</b>
<b>3/1/2016</b>	63	3,624	225	60	3,451	716	309	<b>84,680</b>	<b>727.0</b>	67	3	173	<b>12,282</b>	<b>649.5</b>
<b>4/1/2016</b>	63	3,874	498	60	3,689	1,012	412	<b>130,685</b>	<b>743.7</b>	128	3	184	<b>23,630</b>	<b>666.6</b>
<b>5/1/2016</b>	63	3,749	845	60	3,570	1,101	439	<b>129,008</b>	<b>743.2</b>	222	3	179	<b>24,750</b>	<b>668.0</b>
<b>6/1/2016</b>	63	3,874	1,408	60	3,689	1,112	TBR	<b>122,799</b>	<b>741.1</b>	393	3	184	<b>24,173</b>	<b>667.3</b>
<b>7/1/2016</b>	63	3,749	1,896	60	3,570	2,106	TBR	<b>115,227</b>	<b>738.6</b>	533	3	179	<b>23,461</b>	<b>666.4</b>
<b>8/1/2016</b>	63	3,874	1,995	60	3,689	2,121	TBR	<b>107,422</b>	<b>735.8</b>	566	3	184	<b>22,710</b>	<b>665.5</b>
<b>9/1/2016</b>	63	3,874	1,822	60	3,689	2,121	TBR	<b>99,789</b>	<b>733.0</b>	516	3	184	<b>22,010</b>	<b>664.5</b>
<b>10/1/2016</b>	63	3,749	1,461	60	3,570	1,686	TBR	<b>93,072</b>	<b>730.4</b>	417	3	179	<b>21,415</b>	<b>663.8</b>
<b>11/1/2016</b>	63	3,874	1,023	60	3,689	1,189	TBR	<b>87,171</b>	<b>728.0</b>	296	3	184	<b>20,934</b>	<b>663.1</b>
<b>12/1/2016</b>	63	3,749	501	60	3,570	631	TBR	<b>82,469</b>	<b>726.0</b>	158	3	179	<b>20,598</b>	<b>662.7</b>
<b>1/1/2017</b>	63	3,874	309	60	3,689	354	TBR	<b>78,116</b>	<b>724.2</b>	96	3	184	<b>20,318</b>	<b>662.3</b>
<b>TOTALS:</b>		<b>45,736</b>	<b>12,192</b>		<b>43,558</b>	<b>14,724</b>	<b>1,406</b>			<b>3,459</b>		<b>2,178</b>		

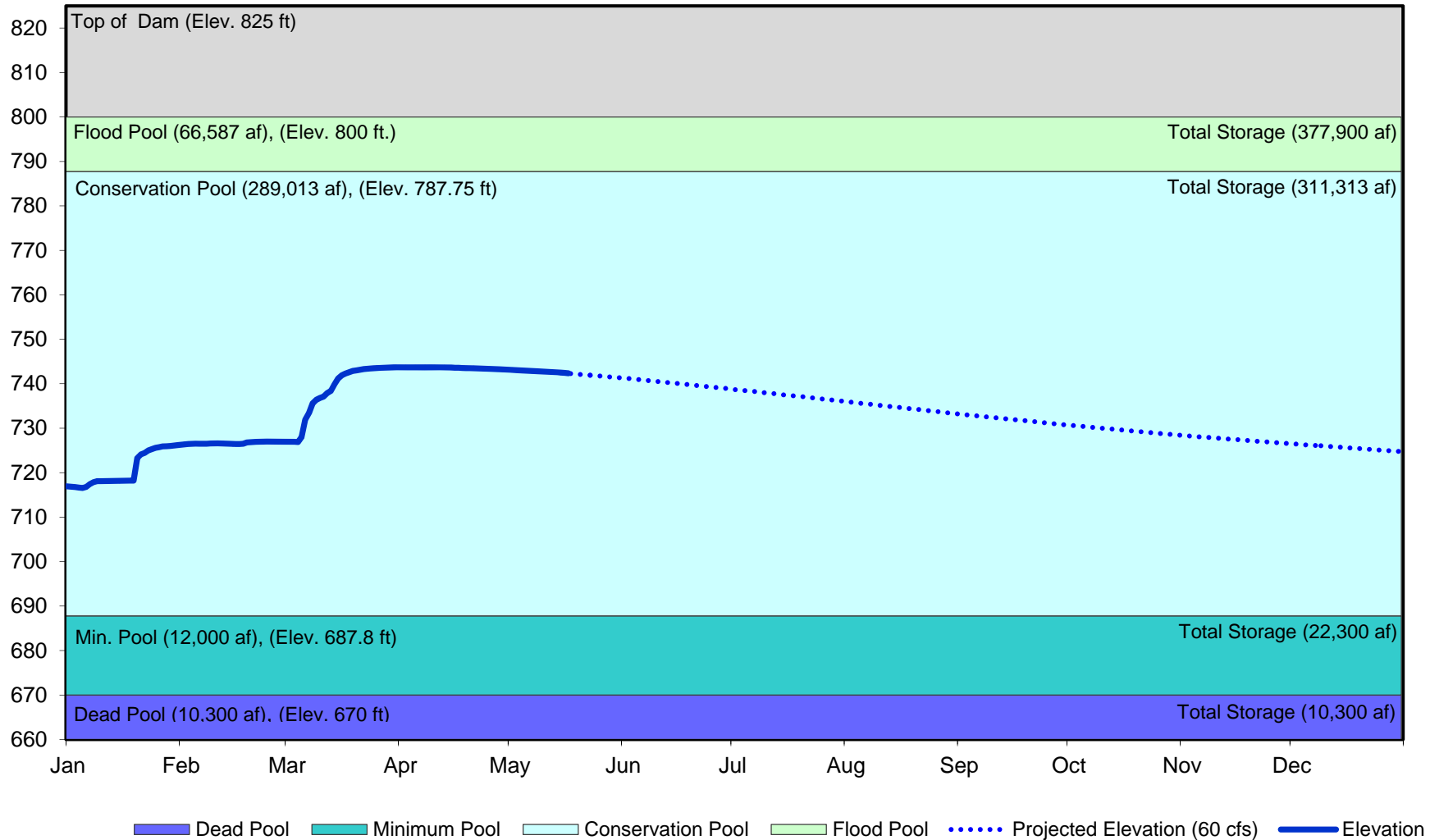






# Projected 2016 Nacimiento Reservoir Elevation

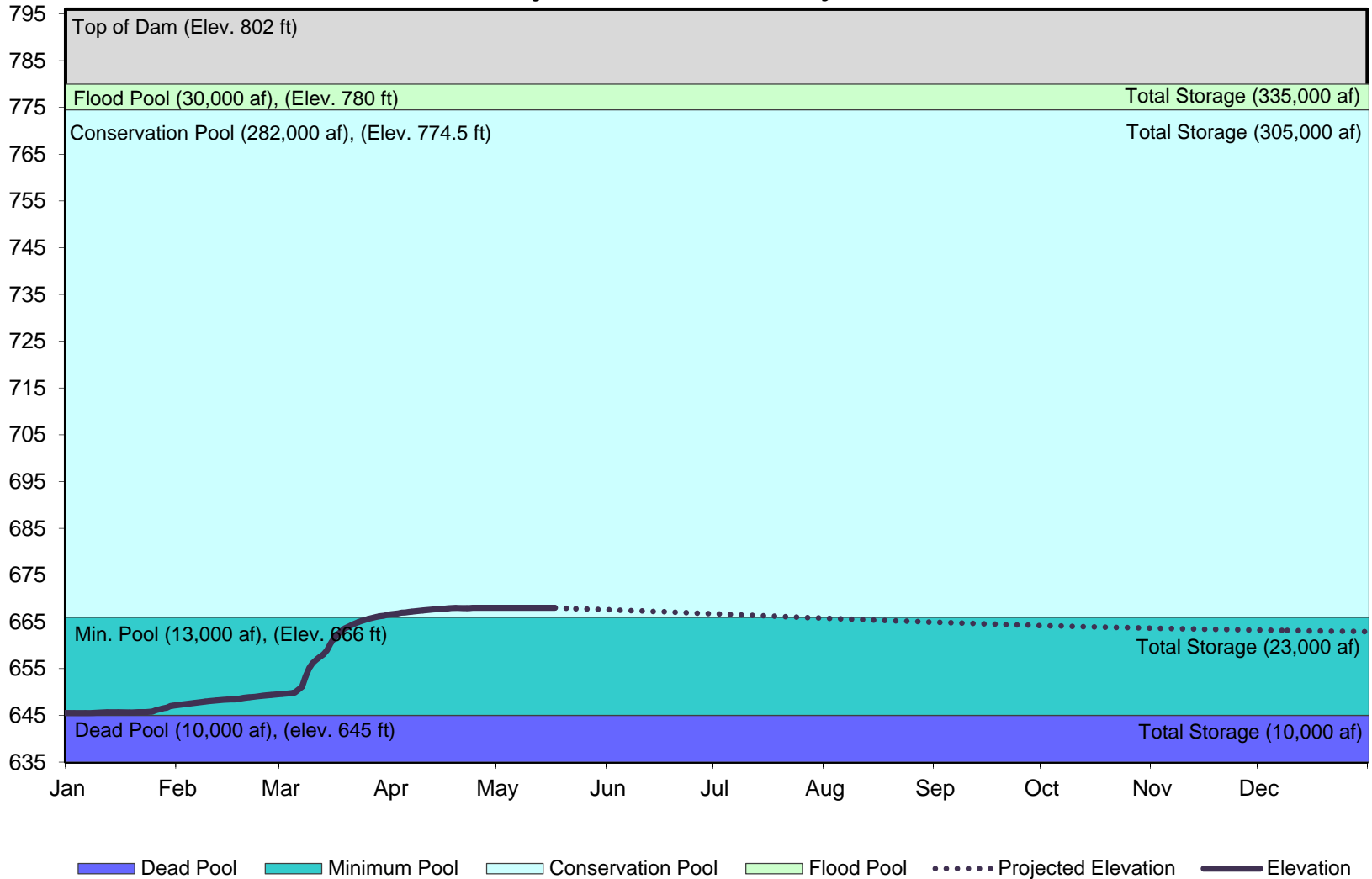
## May 17, 2016 Projection





# Projected 2016 San Antonio Reservoir Elevation

## May 17, 2016 Projection





# TODAY'S ACTION

Adopt a Release Schedule for  
Nacimiento and San Antonio Reservoirs for  
2016







# TODAY'S ACTION

Consider Receiving a Report  
Regarding the Reinstatement of  
the Regional Advisory  
Committee; and Providing  
Direction to Staff





# Committee Action

- None



# Prior BOD/BOS Action

- The Regional Advisory Committee (RAC) provided reports on numerous occasions from February 2013 to April 2014
- Reinstatement of the RAC has been mentioned at recent BOD meetings



# Financial Impact

- None for receiving this report
- Unknown if RAC is reinstated





# Discussion

- SWRCB initiated revocation process against WR Permit #11043, held by the Agency
- Agency passed resolution 13-R01
- Agency developed a strategy to keep the Permit



## Discussion (cont.)

- Strategy involved getting a balanced group of stakeholders to work together to come up with project ideas for WR Permit #11043 water
- RAC held first meeting in February 2013
- RAC met almost monthly from February 2013 to April 2014



# Committee Purpose Statement

The Monterey County Water Resources Agency Regional Advisory Committee's purpose is to:

- update and retain Water Rights Permit #11043; and,
- determine feasibility of utilizing water pursuant to this permit within the context of the original permit; and,
- identify the water available pursuant to Permit #11043 and work together to identify feasible projects that put those water resources to beneficial use.



## Discussion (cont.)

- SWRCB named this project “SVWP Phase II”
  
- SVWP Phase II components could include:
  - Capture
  - Transmission
  - Treatment (?)
  - Use
    - Inject, or
    - Distribute



## Discussion (cont.)

- Last meeting was April 17, 2014
  
- Work from committee was used to develop an “NOP”
  - NOP released on June 30, 2014
  - Comment period ended August 11, 2014
  - Wide range of comments received
  
- BOS indicated the Interlake Tunnel Project was a higher priority project



## Discussion (cont.)

- No available funding to continue work on subsequent WR #11043 milestones
- Staff has requested an extension in the WR #11043 milestones from the SWRCB due to Interlake Tunnel and funding issues
- Staff and outside counsel working with SWRCB to secure the extension



## Discussion (cont.)

- RAC completed its task
- No funds have been identified in the FY 2016-17 Budget
- If extension granted, Agency can develop funding strategy during that time
- If extension not granted, Agency actions would be determined by SWRCB next steps



# Summary

- Agency implemented Regional Advisory Committee
- RAC worked over a year – work product incorporated into a NOP
- NOP released and comments accepted
- BOS pushed Interlake Tunnel to head of the line
- Staff seeking extension on Permit from SWRCB
- RAC has completed mission / charge
- Next steps will depend on SWRCB Action





# TODAY'S ACTION

Receive a Report Regarding the Reinstatement of the Regional Advisory Committee; and Provide Direction to Staff

