



## ZONE 3 ADVISORY COMMITTEE

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San Luis Obispo County Flood Control and Water Conservation District

MAY 16, 2019

## ZONE 3 ADVISORY COMMITTEE

**CANCELLED**

UPDATES ON THE FOLLOWING ITEMS ARE ATTACHED

- I. DRAFT MINUTES - March 21, 2019 - [See Attachment](#)
- II. OPERATIONS REPORT
  - A. Projected Reservoir Levels – [See Attachment](#)
  - B. March & April Monthly Operations Report – [See Attachment](#)
- III. INFORMATION ITEMS
  - A. 3rd Quarter FY 2018/19 Budget Status – [See Attachment](#)
- IV. CAPITAL PROJECTS UPDATE
  - A. Bi-Monthly Update – [See Attachment](#)

*If you have any questions please call Jill Ogren 805-781-5263 or [jogren@co.slo.ca.us](mailto:jogren@co.slo.ca.us)*

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Next Regular Meeting is Tentatively Scheduled for  
**July 18, 2019 at 6:30 PM** at Oceano Community  
Services District

Agendas and documents accessible online at [www.slocounty.ca.gov/pw/zone3](http://www.slocounty.ca.gov/pw/zone3)

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**SAN LUIS OBISPO COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT  
ZONE 3 ADVISORY COMMITTEE  
DRAFT MEETING MINUTES  
THURSDAY MARCH 21, 2019**

- I. **Call to Order and Roll Call** -- The Zone 3 Advisory Committee Meeting was called to order at 6:30 PM at the City of Arroyo Grande Council Chambers by Committee Chair and Member at Large Representative, Jim Garing.

County Public Works Utilities Division Program Manager and Secretary to the Advisory Committee, Andrea Montes, called roll. Members in attendance were:

- Kristen Barneich, City of Arroyo Grande
- Marcia Guthrie, City of Pismo Beach
- Jim Garing, Member at Large
- Shirley Gibson, Oceano Community Services District
- Desire Lance, City of Grover Beach

- II. **Public Comment** -- No public comment given

- III. **Approval of Meeting Minutes**

A. **January 17, 2019** -- Member Barneich motioned approval; Member Gibson second. *All approved; quorum was met, and motion passed.*

- IV. **Operations Report**

A. **Water Plant Operations, Reservoir Storage, Downstream Releases** -- Ms. Montes indicated: Lopez Lake elevation was 495.88 feet; storage was 28,551 acre-feet (AF), which is 58% capacity; rainfall to date, since July 1, 2018, was 26.04 inches; plant production was 3.0 million gallons per day (MGD); downstream release was 1.9 MGD; and State Water was 0.7 MGD.

B. **Projected Reservoir Levels** -- Jill Ogren, Senior Engineer with the Public Works Utilities Division, referring to the Lopez Reservoir Projections Chart, indicated that Lopez reservoir was above what was projected. Reservoir is still slowly rising from water runoff as the water shed is currently saturated. Member Barneich asked if all other reservoirs in the County are full as well. Ms. Ogren responded they are close to being full; Salinas Reservoir is currently spilling, Nacimiento is estimated at 75% capacity and Whale Rock Reservoir is above 50% capacity. Ms. Ogren noted that she has received numerous inquiries into why Lopez Reservoir is not gaining in elevation, the watershed characteristics, such as soil type and slopes, and overall rainfall patterns for the area compared to other areas in the County have an effect on amount of runoff and therefore the level of the reservoir. Ms. Ogren assured the Advisory Committee the required minimum downstream releases of 1.9 MGD are not significantly affecting the elevation levels. No public comment was given.

C. **January & February Monthly Operations Report** -- Ms. Ogren, reviewed the monthly operations reports with the committee. Total deliveries including State Water

for January were 320 AF and February was 350 acre-fee (AF). As of March 1st, three of the agencies are on target to use all of their annual entitlement. Oceano and Pismo have also begun using their Surplus water allocation. Grover Beach is anticipated to use all its entitlement by the end of the year.

Downstream releases year-to-date are at 3,600 AF, which is on target for what was planned, allowed maximum annual release is 4,200 AF, downstream releases are being kept to a minimum of 1.9 MGD to satisfy environmental mitigations related to the Rodriguez Bridge site.

No public comment was given.

## **V. Information Items**

**A. Climate Update** -- Ms. Montes reported that according to the United States Drought Monitor, the County is not in a drought. Ms. Montes cautioned against assuming water conservation is no longer needed as conditions may change. According to National Oceanic and Atmospheric Administration, the temperature forecast for the month of March is 40% below average temperatures when compared to the month of March in prior years. The rainfall forecasted for March was 50% above average for the month.

No public comment was given.

**B. 2<sup>nd</sup> Quarter FY 2018/19 Budget Status** -- Kristi Smith, Public Works Finance, reviewed her staff report on the 2<sup>nd</sup> quarter budget status. She indicated agency total expenses at the end of the 2<sup>nd</sup> Quarter (50% of the year) were 34% of the annual budget. Routine O&M expenses were 45% of the budget leaving \$2.1 million available. Non-Routine O&M expenses were 16% of the budget leaving \$643,000 available, roughly half of the amount is for the HCP efforts and any unspent funds will be carried over into the following year. Some projects had savings and will be presented in the 3<sup>rd</sup> quarter budget update those savings will be credited back to the agencies. Capital Outlay Projects (CIP) expenses were \$0, leaving \$752,000 available, a 3<sup>rd</sup> of the budget had been carried over from the prior year and savings from completed projects will be credited back to the agencies. Ms. Smith noted all agencies are current on their payments.

No public comment was given.

## **VI. Capital Projects Update**

**A. Lopez Spillway Assessment Update** -- Ms. Ogren gave an update of the Department of Water Resources (DWR) Division Safety of Dams' (DSOD) required assessment of the Lopez Spillway, in response to the Oroville Dam failure. Action Plan will be submitted to DSOD for review the week of March 25<sup>th</sup>. Once Action Plan is approved, the next step is physical destructive testing that will provide additional information for analysis as only a visual and desk top inspection has taken place. Testing may encompass core sampling, underdrain flushing, underdrain video, etc. Ms. Ogren noted the funding for the testing is not included in the 19/20 budget as estimated costs cannot be determined until after DSOD reviews and approves our recommendations for the next phase of testing. Member Guthrie requested

clarification on if the Destructive Testing will be related to previously reported vulnerabilities of the Spillway. Ms. Ogren confirmed the testing will be related to those reported vulnerabilities and added that if during testing further concerns of other vulnerabilities appear, that will trigger another Action Plan and DSOD would need to review for approval.

**B. Floating Solar at Terminal Reservoir** -- Ms. Ogren referenced the staff report in the agenda packet that discussed an option to help battle algae growth and associated odor issues at the Lopez Terminal Reservoir. Three alternatives were presented to resolve the issue; 1) Aerators, 2) Armor Balls and 3) Floating Solar. Of these alternatives, an acre of Floating Solar at the Terminal Reservoir would reduce algae growth by minimizing sunlight and provide a power saving alternative to offset costs for the Lopez Treatment Plant. Ms. Ogren explained the power purchase agreement being offered and any shortage of power would be supplemented through the current PG&E contract. Floating Solar will be discussed in further detail, once more is known about the program and needed approvals.

Member Guthrie requested clarification regarding who would maintain the Floating Solar System. Ms. Ogren confirmed the company would manage and maintain the solar once installed at the site.

Member Lance questioned if the Floating Solar would be done in addition to the current algae treatment. Ms. Ogren confirmed that the chemical treatment for algae would continue while the Floating Solar would reduce the volume of algae growth in the Reservoir. The hope would be to scale back treatment compared to what is being done presently. Member Lance requested clarification that the energy savings with Floating Solar would be strictly for the Lopez Treatment Plant. Ms. Ogren confirmed it would only be used to offset energy costs related to the plant.

Member Barneich requested clarification on how large of an area would be used for the Floating Solar, referencing an illustration included in the Agenda Packet. Ms. Ogren stated only one (1) acre of the 4-acre Terminal Reservoir surface would be covered near the intake structure.

Member Gibson requested clarification on the percentage of power to be received from Solar and PG&E, 85% Solar and 15% PG&E. Ms. Ogren confirmed those percentages.

Member Garing questioned if this option would be considered as a Net Metering System. Ms. Ogren stated that the contract with the solar energy company would be set to receive a certain amount of generated energy to avoid cases of lost energy from generating too much energy that would never be used.

No Public comment was given.

**C. Bi-Monthly Update** – Ms. Ogren, referencing the staff report on Capital Improvement Project Updates, presented the current list of projects to be completed and a brief discussion of the status of each project. Since the January meeting, there has not been much change in project status.

No Public comment was given.

## VII. Action Items (No Subsequent Board of Supervisors Action Required)

No Action Items discussed.

## VIII. Action Items (Board of Supervisors Action is Subsequently Required)

### A. Fiscal Year 2019/20 Budget Presentation and Recommended Endorsement

– Ms. Smith reviewed the 19/20 Proposed Budget covering the budget review process and budget overview. Overall billings will increase 3.1% from prior year's budget. Routine O&M will drop by 2.5% due to reduction in budgeted hours for Utilities Division Engineer. Non-Routine O&M & Capital Outlay will increase 54.3% from prior year's budget. Over the last decade the average budget for both categories combined equaled \$750,000. This year would have been \$686,000 if not for the \$300,000 Cloud Seeding item. \$15,000 was budgeted to Contractor Funded Reserves. TAC suggested that up to \$110,000 in savings from not proceeding with Cloud Seeding in 18/19 could be used to increase the reserves instead of being credited back at the end of FY 19/20. Debt Service will drop by -0.9% as costs should remain level until the bonds are paid off in 2030 or refinanced.

Ms. Smith reviewed the labor hours, noting since the start-up of the Lopez Treatment Plant 07/08 hours had decreased. Hours increased again in 16/17 and 17/18. In 16/17, operations staff battled scaling of equipment. In 17/18, removal of wastewater duties allowed staff to concentrate on plant. A decrease is expected for 18/19 from several staff taking an extended leave due to health issues or family leave.

***Endorsement for Fiscal Year 2019/20 Budget - Member Barneich motioned approval; Member Gibson seconded. Member Lance abstained; quorum was met, and motion passed***

B. **Estimated Surplus Water for Water Year 19/20** – Ms. Ogren referred to the staff report for the agenda item and noted that there is an estimated 786 AF at this time. Clarification was given that the term Surplus does not mean “extra” water, but the difference between the agencies entitlement versus what they actually had delivered and the difference between the 4,200 AF downstream releases allotted vs what was actually released downstream. Actual Surplus Water amounts for Water Year 19/20 will be presented to the Board of Supervisors on May 14<sup>th</sup> for approval. Once approved, the Surplus Water will appear on the Monthly Operations Report under the Surplus Water column for the next water year. Ms. Ogren requested endorsement for recommending the Board of Supervisors declare Surplus Water as described in the Water Supply Contracts in an estimated amount of 786 AF.

***Endorsement for Declaring Estimated Surplus Water for Water Year 19/20 – Member Barneich motioned approval; Member Gibson second. All approved; quorum was met, and motion passed.***

No Public comment was given.

**IX. Future Agenda Items**

**A. Contract Changes**

**B. Cloud Seeding**

**C. Low Reservoir Response Plan (LRRP)**

**X. Committee Member Comments -- No comments made.**

**Meeting Adjourned at 8:01 PM**

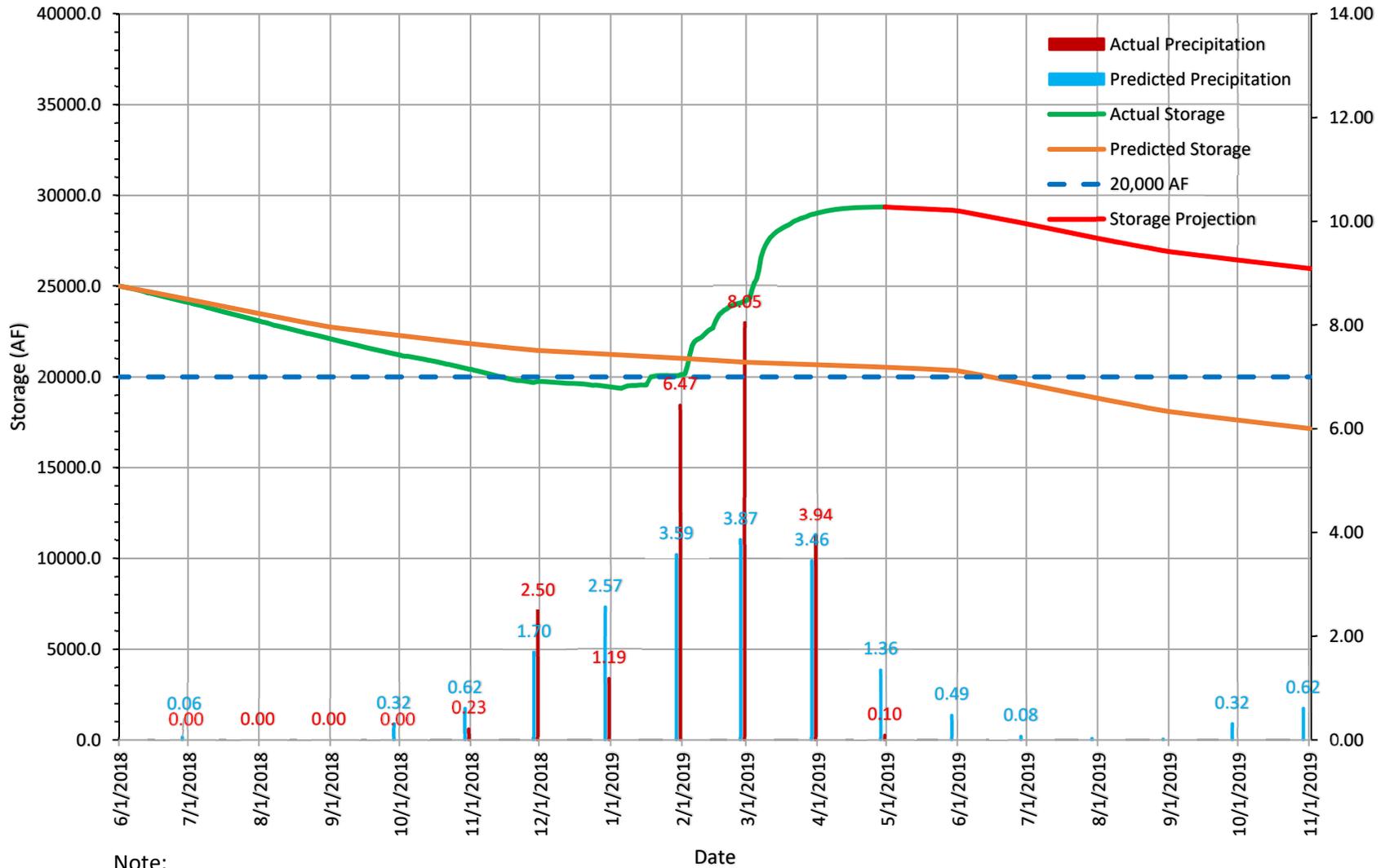
Respectfully Submitted,

Jenny Williamson

County of San Luis Obispo Public Works Department

DRAFT

## LOPEZ RESERVOIR STORAGE PROJECTION

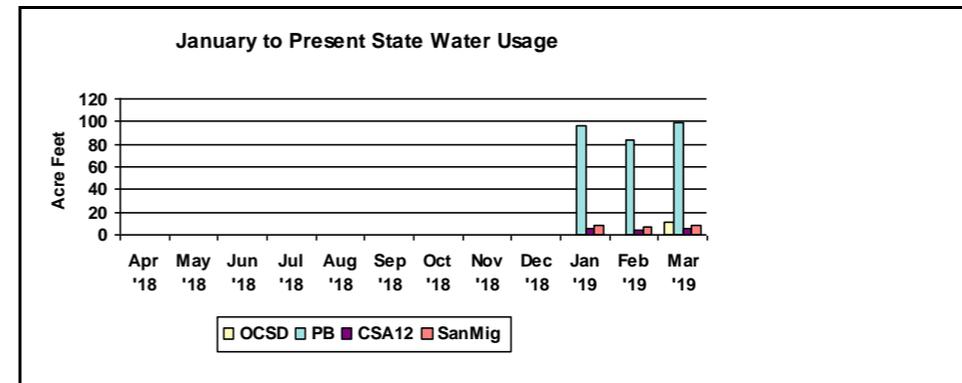
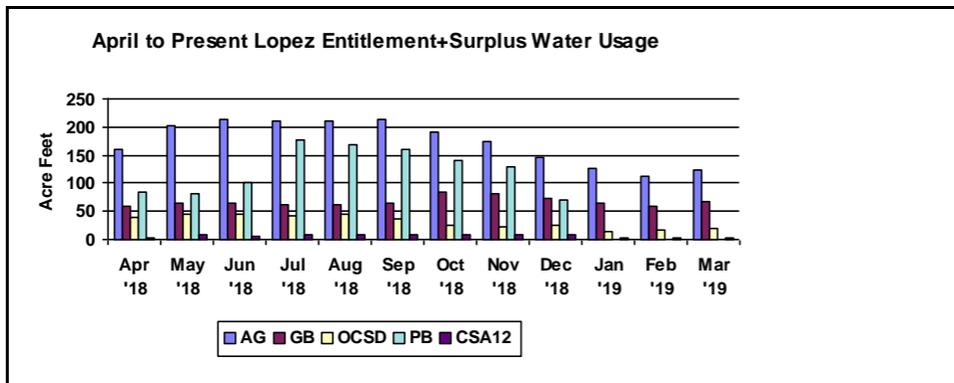


**Note:**

1. Storage projection is based on predicted rainfall from longrangeweather.com, historic inflow based on predicted rainfall, 18-19 downstream release requests, and municipal usage.
2. Municipal Usage is based on 2010-2017 average monthly deliveries.

## San Luis Obispo County Flood Control and Water District Zone 3 - Lopez Project - Monthly Operations Report March, 2019

Contractor	Lopez Water Deliveries											State Water Deliveries						Total Water Deliveries This Month					
	Entl.	Surplus	Total	This Month				April to Present				Annual Request	This Month			January to Present							
				Entitlement		Surplus		Entitlement		Surplus			Usage	% of Annual Request	SWP Deliveries	Change in Storage	Usage		% of Annual Request	SWP Deliveries			
				Usage	%	Usage	%	Usage	%	Usage	%												
Arroyo Grande	2290	564.00	2854.00	124.37	5.4%	0.00	0.0%	2084.03	91.0%	0.00	0.0%	2084.03	73.0%									124.37	
Oceano CSD	303	75.00	378.00	0.00	0.0%	19.62	26.2%	303.00	100.0%	75.00	100.0%	378.00	100.0%	227	10.98	4.8%				10.98	4.8%		30.6
Grover Beach	800	197.00	997.00	57.71	7.2%	9.04	4.6%	800.00	100.0%	9.04	4.6%	809.04	81.1%									66.75	
Pismo Beach	892	220.00	1112.00	0.00	0.0%	0.00	0.0%	892.00	100.0%	220.00	100.0%	1112.00	100.0%	1120	98.50	8.8%				278.55	24.9%		98.5
CSA 12	245	60.00	305.00	2.80	1.1%	0.00	0.0%	74.13	30.3%	0.00	0.0%	74.13	24.3%	27	5.55	20.6%				15.78	58.4%		8.35
San Miguelito														127	7.77	6.1%				22.50	17.7%		7.77
<b>Total</b>	<b>4530</b>	<b>1116.00</b>	<b>5646.00</b>	<b>184.88</b>	<b>4.1%</b>	<b>28.66</b>	<b>2.6%</b>	<b>4153.16</b>	<b>91.7%</b>	<b>304.04</b>	<b>27.2%</b>	<b>4457.20</b>	<b>78.9%</b>	<b>1501</b>	<b>122.80</b>	<b>8.2%</b>	<b>76</b>	<b>-46.80</b>	<b>327.81</b>	<b>21.8%</b>	<b>205.00</b>		<b>336.34</b>
														Last Month Stored State Water		<b>1311.51</b>			This Month Stored State Water		<b>1264.71</b>		



Note: Deliveries are in acre feet. One acre foot = 325, 850 gallons or 43, 560 cubic feet. Safe yield is 8,730 acre feet.

"Year to Date" is January to present for State water, April to present for Lopez deliveries, and July to present for rainfall.

Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	496.59		Difference (feet)	-25.78
Storage (full at 49200 acre feet)	29008		% Full	59.0%
Rainfall	5.19	26.11		
Downstream Release (4200 acre feet/year)	196.41	3830.12		
Spillage (acre feet)	0	0.00		

Comments: Surplus water shown is as designated per BOS May 15, 2018 Declaration of Surplus Water.

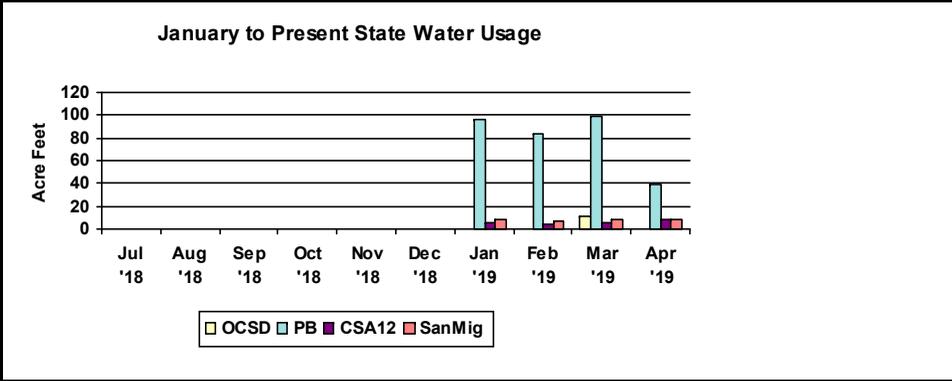
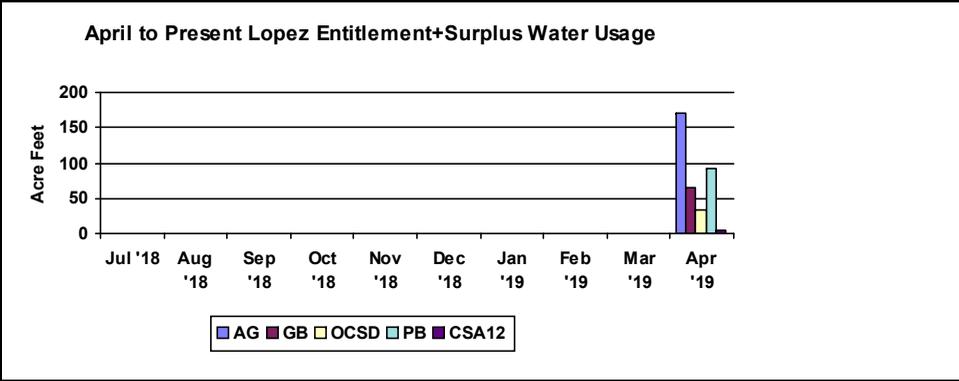
1) Oceano supplied State Water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 1.1 AF delivered to Canyon Crest was added to Oceano's State Water usage this month and 1.1 AF was subtracted from Arroyo Grande's usage this month.

# San Luis Obispo County Flood Control and Water District

## Zone 3 - Lopez Project - Monthly Operations Report

### April, 2019

Contractor	Lopez Water Deliveries											State Water Deliveries						Total Water Deliveries This Month					
	Entl.	Surplus	Total	This Month				April to Present				Annual Request	This Month			January to Present							
				Entitlement		Surplus		Entitlement		Surplus			Usage	% of Annual Request	SWP Deliveries	Change in Storage	Usage		% of Annual Request	SWP Deliveries			
				Usage	%	Usage	%	Usage	%	Usage	%												
Arroyo Grande	2290	378.00	2668.00	169.75	7.4%	0.00	0.0%	169.75	7.4%	0.00	0.0%	169.75	6.4%									169.75	
Oceano CSD	303	50.00	353.00	33.79	11.2%	0.00	0.0%	33.79	11.2%	0.00	0.0%	33.79	9.6%	227	0.00	0.0%			10.98	4.8%			33.79
Grover Beach	800	132.00	932.00	64.13	8.0%	0.00	0.0%	64.13	8.0%	0.00	0.0%	64.13	6.9%										64.13
Pismo Beach	892	147.00	1039.00	91.50	10.3%	0.00	0.0%	91.50	10.3%	0.00	0.0%	91.50	8.8%	1120	39.00	3.5%			317.55	28.4%			130.5
CSA 12	245	40.00	285.00	4.41	1.8%	0.00	0.0%	4.41	1.8%	0.00	0.0%	4.41	1.5%	27	8.20	30.4%			23.98	88.8%			12.61
San Miguelito														127	8.47	6.7%			30.97	24.4%			8.47
<b>Total</b>	<b>4530</b>	<b>747.00</b>	<b>5277.00</b>	<b>363.58</b>	<b>8.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>363.58</b>	<b>8.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>363.58</b>	<b>6.9%</b>	<b>1501</b>	<b>55.67</b>	<b>3.7%</b>			<b>383.48</b>	<b>25.5%</b>	<b>205.00</b>		<b>419.25</b>
											Last Month Stored State Water			This Month Stored State Water			<b>1209.04</b>						



Note: Deliveries are in acre feet. One acre foot = 325, 850 gallons or 43, 560 cubic feet. Safe yield is 8,730 acre feet.

"Year to Date" is January to present for State water, April to present for Lopez deliveries, and July to present for rainfall.

Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	497.12		Difference (feet)	-25.25
Storage (full at 49200 acre feet)	29366		% Full	59.7%
Rainfall	0.16	26.27		
Downstream Release (4200 acre feet/year)	173.39	173.39		
Spillage (acre feet)	0	0.00		

Comments: Surplus water shown is pending BOS May 14, 2019 Declaration of Surplus Water.

1) Oceano supplied State Water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 1.76 AF delivered to Canyon Crest was added to Oceano's State Water usage this month and 1.76 AF was subtracted from Arroyo Grande's usage this month.



**May 16, 2019**

**MEMORANDUM**

**TO:** Flood Control Zone 3 Advisory Committee

**FROM:** Kristi Smith, Accountant

**SUBJECT:** Flood Control Zone 3, Third Quarter Budget Status, Fiscal Year 2018-19

**Recommendation**

The item to be received and filed.

**Summary**

Attached please find the comparison of the budget to actual expenses for the third quarter of fiscal year 2018-19. The \$5.4M budget is broken into three categories: Routine Operations & Maintenance, Non-Routine Operations & Maintenance, and Capital Outlay. At the end of the third quarter, 52% of the annual budget has been expended.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
5,476,793	2,855,048	2,621,745	52%

**Routine O&M:** This category has a budget of just under \$4M dollars. At the end of the third quarter, 67% of the annual budget has been expended, resulting in approximately \$1.3M available for the remainder of the year. Expenses in this category are slightly under budgeted levels.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
3,961,768	2,660,358	1,301,410	67%

**Non-Routine O&M:** This category has a budget of \$762,377. At the end of the third quarter, 22% of the annual budget has been expended, resulting in an available balance of \$597,296 for the remainder of the year. Over half of the available balance is for the Lopez Water Rights/Habitat Conservation Plan (HCP). For most of the efforts in this category unspent budget at the end of the year will be carried forward into next year to allow the continuation of work. A couple of efforts have already been completed and have savings that will be credited back to the agencies during the FY 18/19 true-up.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
762,377	165,081	597,296	22%

**Capital Outlay:** This category has a budget of \$752,648. At the end of the third quarter, 4% of the annual budget has been expended, resulting in \$723,039 available for the remainder of the year. At the end of the year, unspent budget will be carried forward into next year to continue the projects through completion, however, several projects have already been completed and have savings that will be credited back to the agencies.

Total Budget	Expenses through Q3	Balance Available	% of Budget Expended
752,648	29,609	723,039	4%

**Other Agency Involvement/Impact**

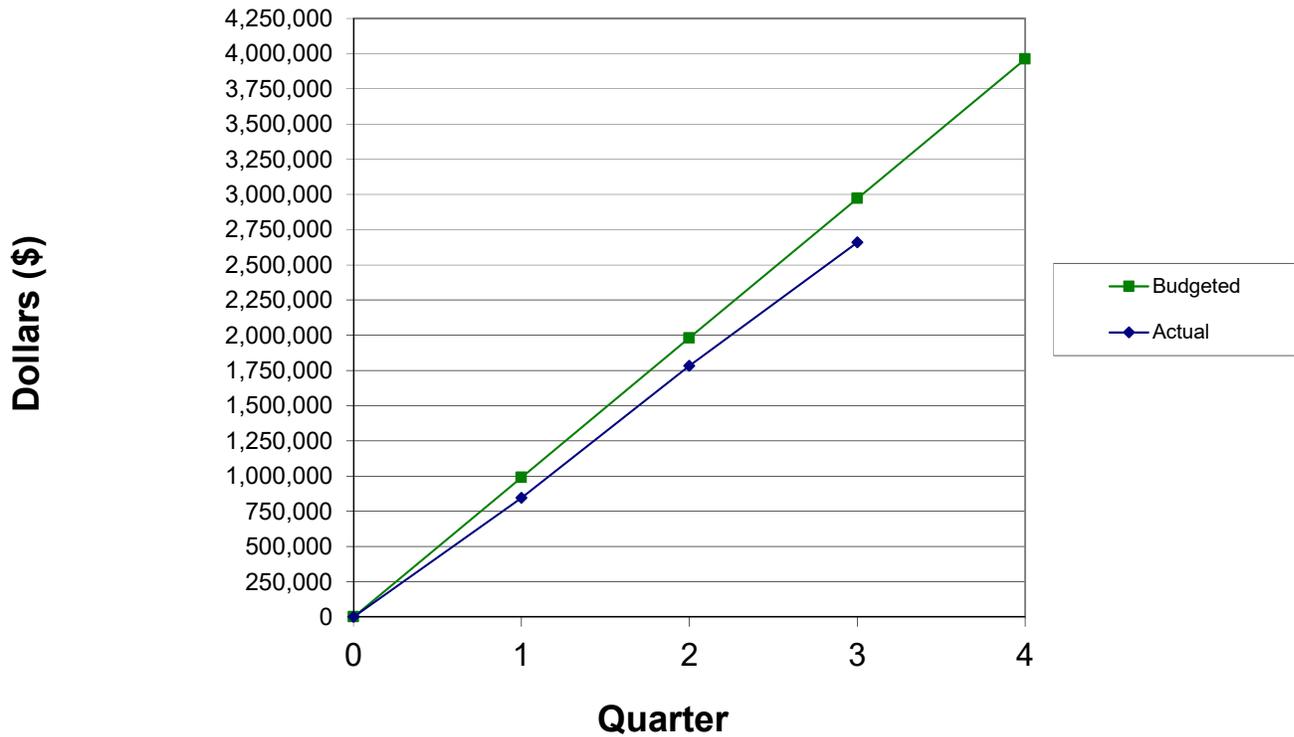
The agencies involved are: City of Arroyo Grande, City of Grover Beach, City of Pismo Beach, Oceano Community Services District, and County Service Area 12. Subcontractors of CSA 12 include Port San Luis Harbor District and Avila Beach Community Services District.

**Financial Consideration**

All agencies are current on their payments. The 1<sup>st</sup> installment billings for FY 2019-20 will be mailed this month, and payments are due July 1, 2019.

Zone 3 Budget Status  
3rd Quarter FY18/19

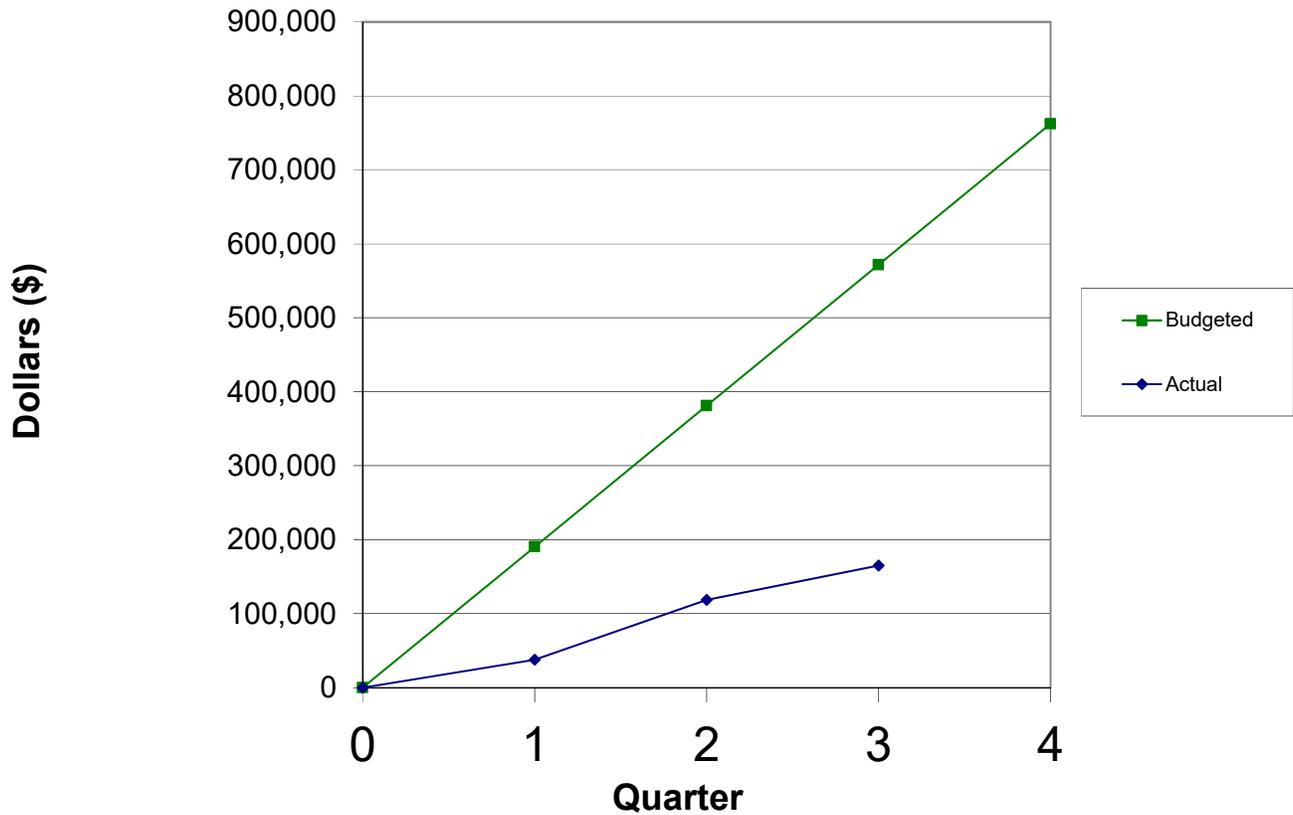
## Routine Operation and Maintenance



O&M Routine Category	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Labor Hours	24,926	4,902	4,853	5,848	-	15,603	63%	
Chemicals - Water Treatment Plant	\$ 232,174	\$ 104,864	\$ 128,785	\$ 76,741	\$ -	\$ 310,389	134%	\$ (78,215)
Water Quality Testing - Treatment Plant	56,120	12,439	17,525	17,602	-	47,566	85%	8,554
Electricity - Water Treatment Plant	128,898	83,921	66,369	42,554	-	192,844	150%	(63,946)
All Other Costs - Water Treatment Plant	2,019,164	388,885	494,076	473,055	-	1,356,016	67%	663,148
Terminal	156,872	37,295	27,148	26,579	-	91,022	58%	65,850
Main Dam	301,828	60,538	38,527	63,583	-	162,648	54%	139,180
Other	1,066,712	157,459	165,793	176,621	-	499,873	47%	566,839
<b>Expenses</b>		<b>845,401</b>	<b>938,222</b>	<b>876,735</b>	<b>-</b>	<b>2,660,358</b>	<b>67%</b>	<b>1,301,410</b>
<b>Budget</b>	<b>3,961,768</b>	<b>990,442</b>	<b>990,442</b>	<b>990,442</b>	<b>990,442</b>	<b>3,961,772</b>		
<b>Variance (over)/under</b>		<b>145,041</b>	<b>52,220</b>	<b>113,707</b>	<b>990,442</b>	<b>1,301,410</b>		
<b>% Variance</b>		<b>15%</b>	<b>5%</b>	<b>11%</b>	<b>100%</b>			

Zone 3 Budget Status  
3rd Quarter FY18/19

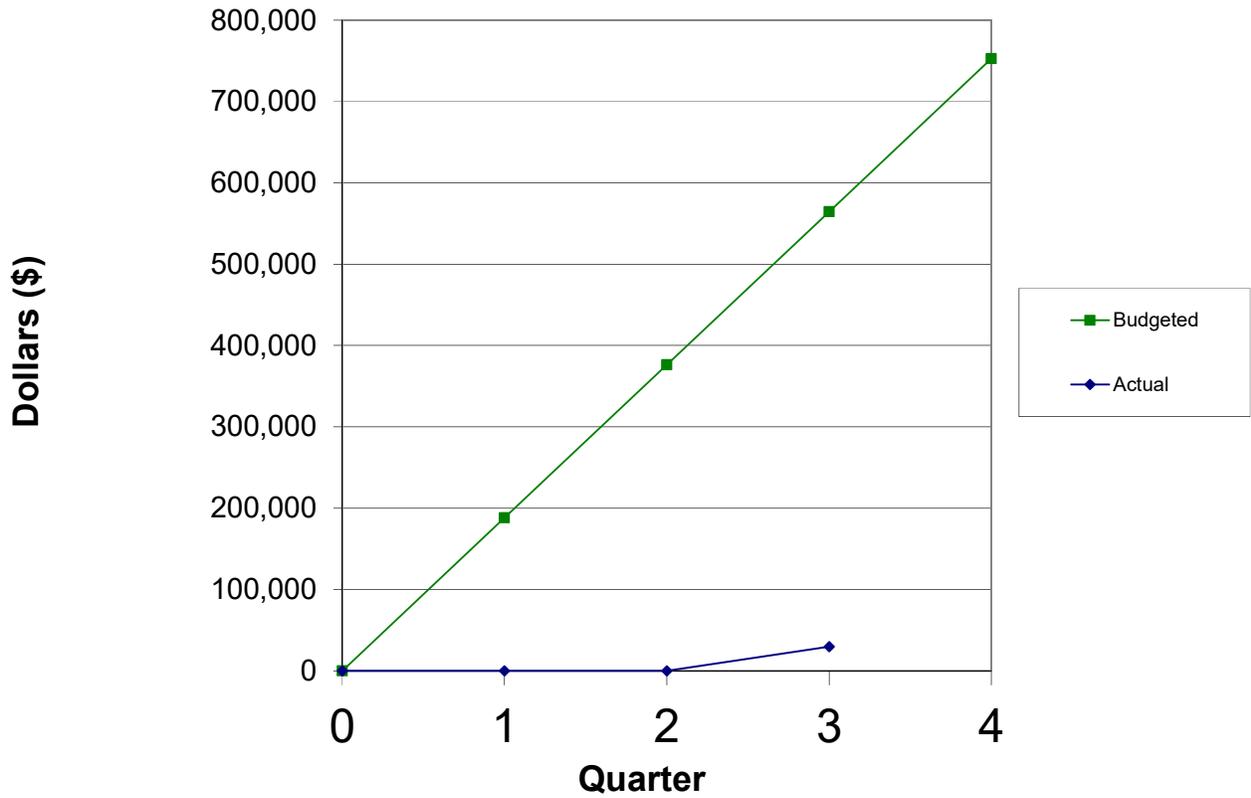
## Non-Routine Operation and Maintenance



O&M Non Routine Category	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Lopez Water Rights /HCP	\$ 324,482	\$ 864	\$ 6,010	\$ 410	\$ -	\$ 7,285	2%	\$ 317,197
Pigging-Unit B <span style="color: red;">completed</span>	89,503	-	-	-	-	-	0%	89,503
Contribution to ISF for Shared New Equip	23,867	-	9,961	(358)	-	9,603	40%	14,264
Santa Maria Groundwater Basin Modeling	70,311	-	-	-	-	-	0%	70,311
Spill Prevention Valve #5 & #11 Replc <span style="color: red;">completed</span>	40,000	-	-	-	-	-	0%	40,000
5 Cities Stormwater Resource Plan	99,875	-	-	-	-	-	0%	99,875
Other	114,339	37,061	64,665	46,466	-	148,193	130%	(33,854)
<b>Expenses</b>		<b>37,925</b>	<b>80,637</b>	<b>46,519</b>	<b>-</b>	<b>165,081</b>	<b>22%</b>	<b>597,296</b>
<b>Budget</b>	<b>762,377</b>	<b>190,594</b>	<b>190,594</b>	<b>190,594</b>	<b>190,594</b>	<b>762,377</b>		
<b>Variance (over)/under</b>		<b>152,669</b>	<b>109,957</b>	<b>144,076</b>	<b>190,594</b>	<b>597,296</b>		
<b>% Variance</b>		<b>80%</b>	<b>58%</b>	<b>76%</b>	<b>100%</b>			

Zone 3 Budget Status  
3rd Quarter FY18/19

### Capital Outlay



Capital Outlay Projects	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Cathodic Protection Maint	154,172	-	-	-	-	-	0%	154,172
Dam Intake Fac & Op Assessment <span style="color:red">completed</span>	20,899	-	-	-	-	-	0%	20,899
Pressure Transducers <span style="color:red">completed</span>	1,250	107	-	-	-	107	9%	1,143
Geologic Assessment Fault Zn Lft Abtmt <span style="color:red">complt'd</span>	12,691	-	-	-	-	-	0%	12,691
Domestic & Fireflow Tank Assessment	48,114	-	-	3,631	-	3,631	8%	44,483
Safety Upgrades to WTP	30,000	-	-	25,871	-	25,871	86%	4,129
Rebuild Membrane Feed Pumps	44,064	-	-	-	-	-	0%	44,064
Power Monitoring <span style="color:red">completed</span>	30,000	-	-	-	-	-	0%	30,000
Improved Boat Access at Term Res	50,000	-	-	-	-	-	0%	50,000
Ammonia Analyzer Equip Repl	36,609	-	-	-	-	-	0%	36,609
Repair Fault Zone Left Dam Abutment	180,000	-	-	-	-	-	0%	180,000
Equip Storage Bldg 4-Bay Prefab	89,849	-	-	-	-	-	0%	89,849
Various Equipment Replacement	55,000	-	-	-	-	-	0%	55,000
<b>Expenses</b>		107	-	29,502	-	29,609	4%	723,039
<b>Budget</b>	752,648	188,162	188,162	188,162	188,162	752,648		
<b>Variance (over)/under</b>		188,055	188,162	158,660	188,162	723,039		
<b>% Variance</b>		100%	100%	84%	100%			



## ZONE 3 Lopez Project

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San Luis Obispo County Flood Control and Water Conservation District

**TO:** Zone 3 Advisory Committee

**FROM:** David Spiegel, PE

**DATE:** May 16, 2019

**SUBJECT:** Zone 3 Projects Update

### **Project Updates:**

- Spillway Assessment
  - GEI's Assessment Report sent to DSOD (May 6, 2019)
- Lopez Dam and Terminal Dam Hazard Classification
  - Inundation maps and changes memo in progress
  - Emergency Action Plans in preparation for submittal by 5/31/19
- Structural Assessment of Terminal Reservoir Dam – (No Change)
  - Geological testing budgeted for 19/20
  - Quotes being obtained
- Floating Solar at Terminal Reservoir
  - Requested the State Water Resources Control Board make determination if solar can be installed
- Fault Zone Risk Assessment for Dam Left Abutment
  - TAC requested a risk assessment after initial study
  - Budgeted for 19/20
- Lopez WTP Safety Upgrades
  - Membrane building upgrades budgeted in 19/20
- Domestic and Fire Tank
  - Domestic Tank Repairs to be completed first
  - Options and costs for alternatives for Fire tank repair in preparation
- Rebuild Membrane Feed Pumps (1 per year) (No Change)
  - Scheduled for removal and rebuilding in the Fall after high demands subside
- Lopez Leach Field Replacement
  - Contract to be awarded before end of fiscal year ~ \$ 40,000



## ZONE 3 Lopez Project

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San Luis Obispo County Flood Control and Water Conservation District

### Upcoming Projects (Requested FY 2018/19):

- Cathodic Protection Survey – Need additional quote
- Ammonia Analyzer installation – moved to next FY, getting new vendor
- Improved Boat Access
- Equipment Storage – (No Change)
  - On hold pending Terminal Reservoir Dam geotechnical investigation

### Completed Projects

- Existing Bypass Pipeline Condition Assessment
- Sludge Bed Cleanout Repair – 4 total
- Turnout SCADA Project
- Sludge Repair on Bed 4A
- Pressure Transducers
- Turnout Flow Meters
- Static Mixer
- Lopez WTP Safety Upgrades
  - Safety Railings and Catwalks installed