

**REGULAR MEETING  
OF  
CACHUMA OPERATION AND MAINTENANCE BOARD**  
*held at*  
**3301 Laurel Canyon Road  
Santa Barbara, CA 93105**

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**Monday, November 18, 2019**

**1:00 PM**

**AGENDA**

1. **CALL TO ORDER, ROLL CALL**
2. **PUBLIC COMMENT** (*Public may address the Board on any subject matter not on the agenda and within the Board's jurisdiction. See "Notice to the Public" below. Please make your comments from the podium once acknowledged by the President of the Board.*)
3. **CONSENT AGENDA** (*All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.*)  
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
  - a. Minutes of October 3, 2019 Special Board Meeting
  - b. Minutes of October 28, 2019 Regular Board Meeting
  - c. Investment of Funds
    - Financial Reports
    - Investment Reports
  - d. Review of Paid Claims
4. **VERBAL REPORTS FROM BOARD COMMITTEES**  
Receive verbal information regarding the following committee meetings:
  - Lake Cachuma Oak Tree Committee Meeting – November 1, 2019
  - Operations Committee Meeting – November 11, 2019
5. **PROFESSIONAL SERVICES AGREEMENT - SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) PROGRAMMABLE LOGIC CONTROLLERS (PLC) REPLACEMENT**  
Action: Recommend approval by motion and roll call vote of the Board
6. **GENERAL MANAGER REPORT**  
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
  - Personnel
  - Administration
  - Engineering / Operations

7. **ENGINEER / OPERATIONS REPORT**

Receive information from the Water Resources Engineer, including but not limited to the following:

- Climate Conditions
- Lake Cachuma Water Quality and Sediment Management Study
- Infrastructure Improvement Project Status
- Lake Cachuma Operations
- Operation and Maintenance Activities

8. **QUIOTA CREEK CROSSING 8 FISH PASSAGE IMPROVEMENT PROJECT UPDATE**

Receive information regarding Quiota Creek Crossing 8 Fish Passage Improvement Project

9. **FISHERIES DIVISION REPORT**

Receive information regarding Fisheries Division, including but not limited to the following:

- LSYR Steelhead Monitoring Elements
- Tributary Project Updates
- Surcharge Water Accounting
- Reporting/Outreach/Training

10. **PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**

Receive information regarding the Lake Cachuma Oak Tree Program including but not limited to the following:

- Maintenance and Monitoring

11. **MONTHLY CACHUMA PROJECT REPORTS**

Receive information regarding the Cachuma Project, including but not limited to the following:

- a. Cachuma Water Reports
- b. Cachuma Reservoir Current Conditions
- c. Lake Cachuma Quagga Survey

12. **DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

13. **[CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION**

- a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

14. **RECONVENE INTO OPEN SESSION**

[Government Code Section 54957.7]  
Disclosure of actions taken in closed session, as applicable  
[Government Code Section 54957.1]

- 13a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

**15. MEETING SCHEDULE**

- **December 16, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**16. COMB ADJOURNMENT**

**NOTICE TO PUBLIC**

**Posting of Agenda:** This agenda was posted at COMB's offices, located at 3301 Laurel Canyon Road, Santa Barbara, California, 93105 and on COMB's website, in accordance with Government Code Section 54954.2. The agenda contains a brief general description of each item to be considered by the Governing Board. The Board reserves the right to modify the order in which agenda items are heard. Copies of staff reports or other written documents relating to each item of business are on file at the COMB offices and are available for public inspection during normal business hours. A person with a question concerning any of the agenda items may call COMB's General Manager at (805) 687-4011.

**Written materials:** In accordance with Government Code Section 54957.5, written materials relating to an item on this agenda which are distributed to the Governing Board less than 72 hours (for a regular meeting) or 24 hours (for a special meeting) will be made available for public inspection at the COMB offices during normal business hours. The written materials may also be posted on COMB's website subject to staff's ability to post the documents before the scheduled meeting.

**Public Comment:** Any member of the public may address the Board on any subject within the jurisdiction of the Board that is not scheduled for as an agenda item before the Board. The total time for this item will be limited by the President of the Board. The Board is not responsible for the content or accuracy of statements made by members of the public. No action will be taken by the Board on any Public Comment item.

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to review agenda materials or participate in this meeting, please contact the Cachuma Operation and Maintenance Board office at (805) 687-4011 at least 48 hours prior to the meeting to enable the Board to make reasonable arrangements.

**Note:** If you challenge in court any of the Board's decisions related to the listed agenda items you may be limited to raising only those issues you or someone else raised at any public hearing described in this notice or in written correspondence to the Governing Board prior to the public hearing.

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**MINUTES OF A SPECIAL MEETING  
OF  
CACHUMA OPERATION AND MAINTENANCE BOARD**

**held at**  
3301 Laurel Canyon Road, Santa Barbara, CA 93105

**Thursday, October 3, 2019  
8:30 AM**

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**1. CALL TO ORDER, ROLL CALL**

The meeting was called to order by President Holcombe at 8:30 AM

**Directors Present:**

Polly Holcombe, Carpinteria Valley Water District  
Kristen Sneddon, City of Santa Barbara  
Lauren Hanson, Goleta Water District  
Cori Hayman, Montecito Water District

**Staff Present:**

Janet Gingras, General Manager	Joel Degner, Water Resources Engineer
Edward Lyons, Administrative Manager/CFO	Dorothy Turner, Administrative Assistant II

**2. PUBLIC COMMENT**

There was no public comment.

**3. RESOLUTION NO. 702 – SOUTH COAST CONDUIT (SCC) SAN JOSE CREEK CROSSING PIPELINE PROTECTION MEASURES**

Mr. Degner presented the staff memorandum, illustrating the current status of the pipe at San Jose Creek crossing and providing a cogent assessment of the need to take immediate action to mitigate storm event damage to the pipeline. He highlighted the CEQA Notice of Exemption to be filed with Santa Barbara County and the requirements to maintain the flood plain and fish passage. Mr. Degner fielded questions from the Board. After discussion, Director Hanson motioned to approve the construction award and expenditures and authorize the General Manager to execute a contract with Tierra Contracting, Inc. in an amount not to exceed \$139,500. Director Sneddon seconded the motion which carried unanimously with a vote of six in favor.

**Ayes: Sneddon, Hayman, Hanson, Holcombe**

**Nays:**

**Absent:**

**Abstain:**

**4. REGULAR BOARD MEETING SCHEDULE**

- **October 28, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 8:52 AM.

Respectfully submitted,

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Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

**APPROVED:**

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Polly Holcombe, President of the Board

**MINUTES OF A REGULAR MEETING  
OF  
CACHUMA OPERATION AND MAINTENANCE BOARD  
held at**

3301 Laurel Canyon Road, Santa Barbara, CA 93105

**Monday, October 28, 2019  
1:00 PM**

---

**1. CALL TO ORDER, ROLL CALL**

The meeting was called to order by President Holcombe at 1:00 PM

**Directors Present:**

Polly Holcombe, Carpinteria Valley Water District  
Kristen Sneddon, City of Santa Barbara  
Lauren Hanson, Goleta Water District  
Cori Hayman, Montecito Water District

**General Counsel Present:**

William Carter, Musick, Peeler & Garrett, LLP

**Staff Present:**

Janet Gingras, General Manager

Elijah Papen, Program Analyst

Edward Lyons, Administrative Manager/CFO

Tim Robinson, Fisheries Division Manager

Joel Degner, Water Resources Engineer

Dorothy Turner, Administrative Assistant II

**Others Present:**

Fray Crease, County Water Agency

Kevin Walsh, SYRWCD

Cathy Taylor, City of Santa Barbara

**2. PUBLIC COMMENT**

There was no public comment.

**3. CONSENT AGENDA**

- a. Minutes of September 3, 2019 Special Board Meeting
- b. Minutes of September 23, 2019 Regular Board Meeting
- c. Investment of Funds
  - Financial Reports
  - Investment Reports
- d. Review of Paid Claims

Ms. Gingras presented the Consent Agenda items as contained in the Board packet. She reviewed revenues briefly and noted periodic obligations paid to Reclamation, as well as final payment to the contractor for Sycamore Canyon Slope Stabilization, to be partially offset by FEMA reimbursement. Ms. Gingras fielded questions from the Board. Director Hanson motioned to approve the Consent Agenda items. Seconded by Director Sneddon, the motion passed unanimously with a vote of six in favor.

**Ayes:** Sneddon, Hayman, Hanson, Holcombe

**Nays:**

**Absent:**

**Abstain:**

**4. VERBAL REPORTS FROM BOARD COMMITTEES**

- *Operations Committee Meeting – October 22, 2019* – Director Sneddon reported on behalf of the Operations Committee, noting that the item is presented within this agenda for Board discussion and possible approval.

**5. FINANCIAL REVIEW – 1<sup>ST</sup> QUARTER FISCAL YEAR 2019-20**

Mr. Lyons presented the Financial Review for the first quarter of Fiscal Year 2019-20 to the Board for receipt and filing. He highlighted total revenues and their sources as well as expenditures accounted for by division. Mr. Lyons reviewed budgetary variances generated by timing differences or expenditures in advance of expected reimbursements.

**6. RESOLUTION NO. 703 – LAKE CACHUMA SECURED PIPELINE ENGINEERING DESIGN SUPPORT**

Ms. Gingras introduced the agenda item and invited Mr. Degner to present Resolution No. 703 to the Board for possible approval. Mr. Degner provided background on the project and reviewed the proposed steps to move forward with the secured pipeline. He fielded questions from the Board. After discussion, Director Sneddon motioned to approve the resolution once the modifications requested by the Board have been made. Director Hayman seconded the motion which passed unanimously with a vote of six in favor.

**Ayes:** Sneddon, Hayman, Hanson, Holcombe

**Nays:**

**Absent:**

**Abstain:**

**7. GENERAL MANAGER REPORT**

- Meetings
- Personnel
- Administration

Ms. Gingras presented the General Manager report as contained in the Board packet, highlighting the status of Round I funding through Integrated Regional Water Management Program (IRWMP). She noted COMB's participation in conference calls hosted by the County Office of Emergency Management. Additionally she reported that staff had participated in OSHA mandated Confined Space Entry training, provided by ACWA JPIA. Ms. Gingras congratulated the Administrative Manager/CFO and staff on the receipt of the Certificate of Achievement awarded for the Fiscal Year 2017-18 CAFR Audit Report. Ms. Gingras reported that the cost for COMB's liability insurance is significantly less this year due to COMB's very low claims loss ratio.

**8. ENGINEER / OPERATIONS REPORT**

- Climate Conditions
- Infrastructure Improvement Project Updates



- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Degner presented the Engineer / Operations reports as contained in the Board packet, reviewing in detail the Sycamore Canyon Slope Stabilization and San Jose Creek Pipe Stabilization projects, both now completed. He provided a summary of other ongoing projects and noted that Operations is now fully staffed and efficiently addressing tasks.

**9. QUIOTA CREEK CROSSING 8 FISH PASSAGE IMPROVEMENT PROJECT UPDATE**

Mr. Robinson provided a comprehensive update of the fish passage project at Quiota Creek Crossing 8, noting that the project, which began on September 30<sup>th</sup>, has made great progress with the new bridge being installed on the 29<sup>th</sup> of November. He updated the Board on the various tasks and challenges surrounding the project and reviewed the financial status of the project. Mr. Robinson advised that a complete summary will be provided upon completion of the project.

**10. FISHERIES DIVISION REPORT**

- LSYR Steelhead Monitoring Elements
- Tributary Project Updates
- Surcharge Water Accounting
- Reporting/Outreach/Training

Mr. Robinson presented the Fisheries Division report, highlighting the status of repairs to the Hilton Creek Watering System. He noted progress in infrastructure updates and repairs. Additionally, Mr. Robinson reported that field monitoring is ongoing per the Biological Opinion but the Annual Reports were delayed due to staff support provided to Operations at the San Jose Creek project.

**11. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree report, noting that staff continues normal maintenance operations. Additionally, he reported that the annual Oak Tree committee meeting is scheduled.

**12. MONTHLY CACHUMA PROJECT REPORTS**

- a. Cachuma Water Reports
- b. Cachuma Reservoir Current Conditions
- c. Lake Cachuma Quagga Survey

Ms. Gingras presented the Cachuma Project water reports. She noted nothing unusual within the reports other than that they represent the final month of the water year with totals to be carried over to the new water year.

**13. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

There were no requests for future meeting agenda items.

**14. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION**

- a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

The Board entered into Closed Session at 2:48 PM

**15. RECONVENE INTO OPEN SESSION**

[Government Code Section 54957.7]  
Disclosure of actions taken in closed session, as applicable  
[Government Code Section 54957.1]

- 14a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

The Board came out of Closed Session at 3:22 PM. There was no reportable action.

**16. MEETING SCHEDULE**

- **November 18, 2019 at 1:00 PM, COMB Office**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**17. COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 3:22 PM.

Respectfully submitted,

\_\_\_\_\_  
Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

**APPROVED:**

\_\_\_\_\_  
Polly Holcombe, President of the Board

**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of October 31, 2019  
**UNAUDITED FINANCIALS**

	<u>Oct 31, 19</u>
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
<b>Trust Funds</b>	
1210 - Warren Act Trust Fund	\$ 691,617.72
1220 - Renewal Fund	<u>10,215.61</u>
<b>Total Trust Funds</b>	\$ 701,833.33
1050 - General Fund	340,660.01
1100 - Revolving Fund	<u>274,487.27</u>
<b>Total Checking/Savings</b>	<u>1,316,980.61</u>
<b>Accounts Receivable</b>	
1301 - Accounts Receivable	126,571.43
1320 - Quarterly Assessments Receivable	882,113.00
1325 - Bank Loan Receivable - EPPF	<u>90,115.31</u>
<b>Total Accounts Receivable</b>	<u>1,098,799.74</u>
<b>Other Current Assets</b>	
1010 - Petty Cash	500.00
1200 - LAIF	1,028,250.03
1303 - Bradbury SOD Act Assessments Receivable	201,351.00
1304 - Lauro Dam SOD Assessment Receivable	31,080.14
1400 - Prepaid Insurance	<u>14,764.72</u>
<b>Total Other Current Assets</b>	<u>1,275,945.89</u>
<b>Total Current Assets</b>	<u>3,691,726.24</u>
<b>Fixed Assets</b>	
1500 - Vehicles	475,733.27
1505 - Office Furniture & Equipment	355,185.56
1510 - Mobile Offices	97,803.34
1515 - Field Equipment	537,803.92
1525 - Paving	38,351.00
1550 - Accumulated Depreciation	<u>(1,341,093.60)</u>
<b>Total Fixed Assets</b>	<u>163,783.49</u>
<b>Other Assets</b>	
1923 - Deferred Outflow (GASB 75)	214,063.00
1910 - Long Term Bradbury SOD Act Assessment Receivable	4,478,803.07
1920 - Long Term Lauro SOD Act Assessment Receivable	804,089.14
1922 - Deferred Out Flow of Resources (GASB 68)	<u>497,820.00</u>
<b>Total Other Assets</b>	<u>5,994,775.21</u>
<b>TOTAL ASSETS</b>	<u><u>\$ 9,850,284.94</u></u>

**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of October 31, 2019  
**UNAUDITED FINANCIALS**

	<b>Oct 31, 19</b>
<b>LIABILITIES &amp; NET POSITION</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Accounts Payable</b>	
2200 - Accounts Payable	\$ 28,760.69
<b>Total Accounts Payable</b>	28,760.69
<b>Other Current Liabilities</b>	
2550 - Vacation/Sick	182,133.24
2561 - Bradbury Dam SOD Act	201,351.00
2563 - Lauro Dam SOD Act	31,080.14
2565 - Accrued Interest SOD Act	57,465.00
2567 - Loan Payable Current EPFP	434,126.11
2590 - Deferred Revenue	701,833.33
<b>Total Other Current Liabilities</b>	1,607,988.82
<b>Total Current Liabilities</b>	1,636,749.51
<b>Long Term Liabilities</b>	
2602 - Long Term SOD Act Liability-Bradbury	4,478,793.07
2603 - Long Term SOD Act Liability - Lauro	804,089.14
2604 - OPEB Long Term Liability	5,384,212.00
2605 - Loan Payable Principal - EPFP	344,682.92
2610 - Net Pension Liability (GASB 68)	1,732,868.00
2611 - Deferred In Flow of Resources (GASB 68)	141,294.00
<b>Total Long Term Liabilities</b>	12,885,939.13
<b>Total Liabilities</b>	14,522,688.64
<b>Net Position</b>	
3000 - Opening Balance Net Position	(5,296,580.05)
3901 - Retained Net Assets	(437,125.81)
<b>Net Income</b>	1,061,302.16
<b>Total Net Position</b>	(4,672,403.70)
<b>TOTAL LIABILITIES &amp; NET POSITION</b>	<b>\$ 9,850,284.94</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2019 - June 2020

	Fisheries				Operations				TOTAL			
	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget
<b>Revenue</b>												
<b>3000 REVENUE</b>												
3001 - O&M Budget (Qtrly Assessments)	\$ 468,318.00	\$ 936,631.00	\$ (468,313.00)	50.0%	\$ 1,843,684.00	\$ 3,687,371.00	\$ (1,843,687.00)	50.0%	\$ 2,312,002.00	\$ 4,624,002.00	\$ (2,312,000.00)	50.0%
3006 - Warren Act	0.00	591,523.00	-591,523.00	0.0%	0.00				0.00	591,523.00	-591,523.00	0.0%
3009 - EPPF Loan (Qtrly Assessments)	0.00				115,862.54				115,862.54	0.00	115,862.54	100.0%
3020 - Misc Revenue	0.00				250.00				250.00	0.00	250.00	100.0%
3021 - Grant Revenue	0.00				448.00				448.00	0.00	448.00	100.0%
3035 - Cachuma Project Betterment Fund	0.00	90,000.00	-90,000.00	0.0%	0.00				0.00	90,000.00	-90,000.00	0.0%
3042 - Sycamore Cnyn Slope Stablin Reim	0.00				381,270.00	450,752.00	-69,482.00	84.59%	381,270.00	450,752.00	-69,482.00	84.59%
3043 - Grant-QC Crossing #8	0.00	1,010,700.00	-1,010,700.00	0.0%	0.00				0.00	1,010,700.00	-1,010,700.00	0.0%
<b>Total 3000 REVENUE</b>	<b>468,318.00</b>	<b>2,628,854.00</b>	<b>-2,160,536.00</b>	<b>17.82%</b>	<b>2,341,514.54</b>	<b>4,138,123.00</b>	<b>-1,796,608.46</b>	<b>56.58%</b>	<b>2,809,832.54</b>	<b>6,766,977.00</b>	<b>-3,957,144.46</b>	<b>41.52%</b>
<b>Total Revenue</b>	<b>468,318.00</b>	<b>2,628,854.00</b>	<b>-2,160,536.00</b>	<b>17.82%</b>	<b>2,341,514.54</b>	<b>4,138,123.00</b>	<b>-1,796,608.46</b>	<b>56.58%</b>	<b>2,809,832.54</b>	<b>6,766,977.00</b>	<b>-3,957,144.46</b>	<b>41.52%</b>
<b>Gross Profit</b>	<b>\$ 468,318.00</b>	<b>\$ 2,628,854.00</b>	<b>\$ (2,160,536.00)</b>	<b>17.82%</b>	<b>\$ 2,341,514.54</b>	<b>\$ 4,138,123.00</b>	<b>\$ (1,796,608.46)</b>	<b>56.58%</b>	<b>\$ 2,809,832.54</b>	<b>\$ 6,766,977.00</b>	<b>\$ (3,957,144.46)</b>	<b>41.52%</b>
<b>Expense</b>												
<b>3100 - LABOR - OPERATIONS</b>	<b>\$ -</b>				<b>\$ 288,975.98</b>	<b>\$ 952,164.00</b>	<b>\$ (663,188.02)</b>	<b>30.35%</b>	<b>\$ 288,975.98</b>	<b>\$ 952,164.00</b>	<b>\$ (663,188.02)</b>	<b>30.35%</b>
<b>3200 VEH &amp; EQUIPMENT</b>												
3201 - Vehicle/Equip Mtce	0.00				11,386.49	30,000.00	-18,613.51	37.96%	11,386.49	30,000.00	-18,613.51	37.96%
3202 - Fixed Capital	0.00				0.00	15,000.00	-15,000.00	0.0%	0.00	15,000.00	-15,000.00	0.0%
3203 - Equipment Rental	0.00				520.36	5,000.00	-4,479.64	10.41%	520.36	5,000.00	-4,479.64	10.41%
3204 - Miscellaneous	0.00				786.28	5,000.00	-4,213.72	15.73%	786.28	5,000.00	-4,213.72	15.73%
<b>Total 3200 VEH &amp; EQUIPMENT</b>	<b>0.00</b>				<b>12,693.13</b>	<b>55,000.00</b>	<b>-42,306.87</b>	<b>23.08%</b>	<b>12,693.13</b>	<b>55,000.00</b>	<b>-42,306.87</b>	<b>23.08%</b>
<b>3300 - CONTRACT LABOR</b>												
3301 - Conduit, Meter, Valve & Misc	0.00				3,858.53	20,000.00	-16,141.47	19.29%	3,858.53	20,000.00	-16,141.47	19.29%
3302 - Buildings & Roads	0.00				2,984.96	20,000.00	-17,015.04	14.93%	2,984.96	20,000.00	-17,015.04	14.93%
3303 - Reservoirs	0.00				1,935.69	30,000.00	-28,064.31	6.45%	1,935.69	30,000.00	-28,064.31	6.45%
3304 - Engineering, Misc Services	0.00				35,913.20	25,000.00	10,913.20	143.65%	35,913.20	25,000.00	10,913.20	143.65%
<b>Total 3300 - CONTRACT LABOR</b>	<b>0.00</b>				<b>44,692.38</b>	<b>95,000.00</b>	<b>-50,307.62</b>	<b>47.05%</b>	<b>44,692.38</b>	<b>95,000.00</b>	<b>-50,307.62</b>	<b>47.05%</b>
<b>3400 - MATERIALS &amp; SUPPLIES</b>												
3401 - Conduit, Meter, Valve & Misc	0.00				11,296.67	65,000.00	-53,703.33	17.38%	11,296.67	65,000.00	-53,703.33	17.38%
3402 - Buildings & Roads	0.00				1,488.69	8,000.00	-6,511.31	18.61%	1,488.69	8,000.00	-6,511.31	18.61%
3403 - Reservoirs	0.00				60.91	5,000.00	-4,939.09	1.22%	60.91	5,000.00	-4,939.09	1.22%
<b>Total 3400 - MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>				<b>12,846.27</b>	<b>78,000.00</b>	<b>-65,153.73</b>	<b>16.47%</b>	<b>12,846.27</b>	<b>78,000.00</b>	<b>-65,153.73</b>	<b>16.47%</b>
<b>3500 - OTHER EXPENSES</b>												
3501 - Utilities	0.00				1,985.72	7,000.00	-5,014.28	28.37%	1,985.72	7,000.00	-5,014.28	28.37%
3502 - Uniforms	0.00				1,141.63	5,000.00	-3,858.37	22.83%	1,141.63	5,000.00	-3,858.37	22.83%
3503 - Communications	0.00				4,956.13	20,500.00	-15,543.87	24.18%	4,956.13	20,500.00	-15,543.87	24.18%
3504 - USA & Other Services	0.00				845.10	4,000.00	-3,154.90	21.13%	845.10	4,000.00	-3,154.90	21.13%
3505 - Miscellaneous	0.00				2,994.14	8,000.00	-5,005.86	37.43%	2,994.14	8,000.00	-5,005.86	37.43%
3506 - Training	0.00				130.00	3,000.00	-2,870.00	4.33%	130.00	3,000.00	-2,870.00	4.33%
<b>Total 3500 - OTHER EXPENSES</b>	<b>0.00</b>				<b>12,052.72</b>	<b>47,500.00</b>	<b>-35,447.28</b>	<b>25.37%</b>	<b>12,052.72</b>	<b>47,500.00</b>	<b>-35,447.28</b>	<b>25.37%</b>
<b>4100 - LABOR - FISHERIES</b>	<b>219,813.96</b>	<b>704,515.00</b>	<b>-484,701.04</b>	<b>31.2%</b>	<b>0.00</b>				<b>219,813.96</b>	<b>704,515.00</b>	<b>-484,701.04</b>	<b>31.2%</b>
<b>4200 - VEHICLES &amp; EQUIP - FISHERIES</b>												
4270 - Vehicle/Equip Mtce	9,589.14	20,000.00	-10,410.86	47.95%	0.00				9,589.14	20,000.00	-10,410.86	47.95%
4280 - Fixed Capital	28,941.74	35,000.00	-6,058.26	82.69%	0.00				28,941.74	35,000.00	-6,058.26	82.69%

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2019 - June 2020

	Fisheries				Operations				TOTAL			
	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget
4290 - Miscellaneous	132.84	2,500.00	-2,367.16	5.31%	0.00				132.84	2,500.00	-2,367.16	5.31%
<b>Total 4200 - VEHICLES &amp; EQUIP - FISHERIES</b>	<b>38,663.72</b>	<b>57,500.00</b>	<b>-18,836.28</b>	<b>67.24%</b>	<b>0.00</b>				<b>38,663.72</b>	<b>57,500.00</b>	<b>-18,836.28</b>	<b>67.24%</b>
<b>4220 - CONTRACT LABOR - FISHERIES</b>												
4221 - Meters & Valves	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
4222 - Fish Projects Maintenance	0.00	25,000.00	-25,000.00	0.0%	0.00				0.00	25,000.00	-25,000.00	0.0%
<b>Total 4220 - CONTRACT LABOR - FISHERIES</b>	<b>0.00</b>	<b>28,000.00</b>	<b>-28,000.00</b>	<b>0.0%</b>	<b>0.00</b>				<b>0.00</b>	<b>28,000.00</b>	<b>-28,000.00</b>	<b>0.0%</b>
<b>4300 - MATERIALS/SUPPLIES - FISHERIES</b>												
4390 - Miscellaneous	1,223.25	7,000.00	-5,776.75	17.48%	0.00				1,223.25	7,000.00	-5,776.75	17.48%
<b>Total 4300 - MATERIALS/SUPPLIES - FISHERIES</b>	<b>1,223.25</b>	<b>7,000.00</b>	<b>-5,776.75</b>	<b>17.48%</b>	<b>0.00</b>				<b>1,223.25</b>	<b>7,000.00</b>	<b>-5,776.75</b>	<b>17.48%</b>
<b>4500 - OTHER EXPENSES - FISHERIES</b>												
4502 - Uniforms	782.21	3,500.00	-2,717.79	22.35%	0.00				782.21	3,500.00	-2,717.79	22.35%
<b>Total 4500 - OTHER EXPENSES - FISHERIES</b>	<b>782.21</b>	<b>3,500.00</b>	<b>-2,717.79</b>	<b>22.35%</b>	<b>0.00</b>				<b>782.21</b>	<b>3,500.00</b>	<b>-2,717.79</b>	<b>22.35%</b>
<b>4999 - GENERAL &amp; ADMINISTRATIVE</b>												
5000 - Director Fees	0.00				3,338.40	12,500.00	-9,161.60	26.71%	3,338.40	12,500.00	-9,161.60	26.71%
5001 - Director Mileage	0.00				235.29	500.00	-264.71	47.06%	235.29	500.00	-264.71	47.06%
5100 - Legal	0.00				6,629.07	75,000.00	-68,370.93	8.84%	6,629.07	75,000.00	-68,370.93	8.84%
5101 - Audit	0.00				8,281.32	22,750.00	-14,468.68	36.4%	8,281.32	22,750.00	-14,468.68	36.4%
5150 - Unemployment Tax	0.00				4,949.89	5,000.00	-50.11	99.0%	4,949.89	5,000.00	-50.11	99.0%
5200 - Liability Insurance	0.00				29,024.00	50,551.00	-21,527.00	57.42%	29,024.00	50,551.00	-21,527.00	57.42%
5310 - Postage/Office Exp	0.00				2,053.82	5,000.00	-2,946.18	41.08%	2,053.82	5,000.00	-2,946.18	41.08%
5311 - Office Equip/Leases	0.00				2,636.73	9,200.00	-6,563.27	28.66%	2,636.73	9,200.00	-6,563.27	28.66%
5312 - Misc Admin Expenses	0.00				2,914.23	14,000.00	-11,085.77	20.82%	2,914.23	14,000.00	-11,085.77	20.82%
5313 - Communications	0.00				2,967.72	8,500.00	-5,532.28	34.91%	2,967.72	8,500.00	-5,532.28	34.91%
5314 - Utilities	0.00				2,954.41	9,737.00	-6,782.59	30.34%	2,954.41	9,737.00	-6,782.59	30.34%
5315 - Membership Dues	0.00				8,765.25	9,410.00	-644.75	93.15%	8,765.25	9,410.00	-644.75	93.15%
5316 - Admin Fixed Assets	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
5318 - Computer Consultant	0.00				6,134.09	16,500.00	-10,365.91	37.18%	6,134.09	16,500.00	-10,365.91	37.18%
5325 - Emp Training/Subscriptions	0.00				894.00	2,000.00	-1,106.00	44.7%	894.00	2,000.00	-1,106.00	44.7%
5330 - Admin Travel/Conferences	0.00				1,042.95	2,000.00	-957.05	52.15%	1,042.95	2,000.00	-957.05	52.15%
5331 - Public Information	0.00				0.00	3,500.00	-3,500.00	0.0%	0.00	3,500.00	-3,500.00	0.0%
<b>Total 4999 - GENERAL &amp; ADMINISTRATIVE</b>	<b>0.00</b>				<b>82,821.17</b>	<b>249,148.00</b>	<b>-166,326.83</b>	<b>33.24%</b>	<b>82,821.17</b>	<b>249,148.00</b>	<b>-166,326.83</b>	<b>33.24%</b>
<b>5299 - ADMIN LABOR</b>	<b>0.00</b>				<b>185,390.57</b>	<b>610,984.00</b>	<b>-425,593.43</b>	<b>30.34%</b>	<b>185,390.57</b>	<b>610,984.00</b>	<b>-425,593.43</b>	<b>30.34%</b>
<b>5400 - GENERAL &amp; ADMIN - FISHERIES</b>												
5407 - Legal - FD	5,451.00	100,000.00	-94,549.00	5.45%	0.00				5,451.00	100,000.00	-94,549.00	5.45%
5410 - Postage / Office Supplies	948.34	4,000.00	-3,051.66	23.71%	0.00				948.34	4,000.00	-3,051.66	23.71%
5411 - Office Equipment / Leases	1,389.76	6,518.00	-5,128.24	21.32%	0.00				1,389.76	6,518.00	-5,128.24	21.32%
5412 - Misc. Admin Expense	1,498.84	7,500.00	-6,001.16	19.99%	0.00				1,498.84	7,500.00	-6,001.16	19.99%
5413 - Communications	1,698.45	5,805.00	-4,106.55	29.26%	0.00				1,698.45	5,805.00	-4,106.55	29.26%
5414 - Utilities	1,589.29	5,243.00	-3,653.71	30.31%	0.00				1,589.29	5,243.00	-3,653.71	30.31%
5415 - Membership Dues	4,824.75	5,955.00	-1,130.25	81.02%	0.00				4,824.75	5,955.00	-1,130.25	81.02%
5416 - Admin Fixed Assets	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
5418 - Computer Consultant	3,302.97	9,000.00	-5,697.03	36.7%	0.00				3,302.97	9,000.00	-5,697.03	36.7%
5425 - Employee Education/Subscription	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5426 - Director Fees	1,797.60	6,700.00	-4,902.40	26.83%	0.00				1,797.60	6,700.00	-4,902.40	26.83%

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2019 - June 2020

	Fisheries				Operations				TOTAL			
	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget	Jul - Oct 19	Budget	\$ Over/(Under) Budget	% of Budget
5427 · Director Mileage	126.68	300.00	-173.32	42.23%	0.00				126.68	300.00	-173.32	42.23%
5430 · Travel	197.89	2,500.00	-2,302.11	7.92%	0.00				197.89	2,500.00	-2,302.11	7.92%
5431 · Public Information	1,000.00	1,500.00	-500.00	66.67%	0.00				1,000.00	1,500.00	-500.00	66.67%
5441 · Audit	7,884.18	12,250.00	-4,365.82	64.36%	0.00				7,884.18	12,250.00	-4,365.82	64.36%
5443 · Liab & Property Ins	15,628.30	24,745.00	-9,116.70	63.16%	0.00				15,628.30	24,745.00	-9,116.70	63.16%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	<b>47,338.05</b>	<b>197,516.00</b>	<b>-150,177.95</b>	<b>23.97%</b>	<b>0.00</b>				<b>47,338.05</b>	<b>197,516.00</b>	<b>-150,177.95</b>	<b>23.97%</b>
5499 · ADMIN LABOR-FISHERIES	65,183.60	240,823.00	-175,639.40	27.07%	0.00				65,183.60	240,823.00	-175,639.40	27.07%
5510 · Integrated Reg. Water Mgt Plan	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
<b>6000 · SPECIAL PROJECTS</b>												
6062 · SCADA	0.00				114.83	35,000.00	-34,885.17	0.33%	114.83	35,000.00	-34,885.17	0.33%
6090 · COMB Office Building	0.00				1,456.40	25,000.00	-23,543.60	5.83%	1,456.40	25,000.00	-23,543.60	5.83%
6096 · SCC Structure Rehabilitation	0.00				0.00	400,000.00	-400,000.00	0.0%	0.00	400,000.00	-400,000.00	0.0%
6097 · GIS and Mapping	0.00				925.00	10,000.00	-9,075.00	9.25%	925.00	10,000.00	-9,075.00	9.25%
6105 · ROW Management Program	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6120 · Emergency Pumping Fac Project	0.00				14,000.00	225,000.00	-211,000.00	6.22%	14,000.00	225,000.00	-211,000.00	6.22%
6132 · Sycamore Canyon Slope Stabiliz	0.00				573,359.49	605,242.00	-31,882.51	94.73%	573,359.49	605,242.00	-31,882.51	94.73%
6135 · SCC San Jose Creek Pipe Stabili	0.00				47,285.61	150,000.00	-102,714.39	31.52%	47,285.61	150,000.00	-102,714.39	31.52%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	150,000.00	-150,000.00	0.0%	0.00	150,000.00	-150,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				12,491.00	150,000.00	-137,509.00	8.33%	12,491.00	150,000.00	-137,509.00	8.33%
6138 · Cachuma Watershed Mgmt Study	0.00				34,695.50	275,085.00	-240,389.50	12.61%	34,695.50	275,085.00	-240,389.50	12.61%
<b>Total 6000 · SPECIAL PROJECTS</b>	<b>0.00</b>				<b>684,327.83</b>	<b>2,045,327.00</b>	<b>-1,360,999.17</b>	<b>33.46%</b>	<b>684,327.83</b>	<b>2,045,327.00</b>	<b>-1,360,999.17</b>	<b>33.46%</b>
<b>6200 · FISHERIES ACTIVITIES</b>												
6201 · FMP Implementation	3,417.82	33,000.00	-29,582.18	10.36%	0.00				3,417.82	33,000.00	-29,582.18	10.36%
6202 · GIS and Mapping	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6203 · Grants Technical Support	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	6,000.00	-6,000.00	0.0%	0.00				0.00	6,000.00	-6,000.00	0.0%
6205 · USGS Stream Gauge Program	7,936.65	100,000.00	-92,063.35	7.94%	0.00				7,936.65	100,000.00	-92,063.35	7.94%
6206 · Tri County Fish Team Funding	0.00	5,000.00	-5,000.00	0.0%	0.00				0.00	5,000.00	-5,000.00	0.0%
6207 · Oak Tree Restoration Program	1,372.07	30,000.00	-28,627.93	4.57%	0.00				1,372.07	30,000.00	-28,627.93	4.57%
<b>Total 6200 · FISHERIES ACTIVITIES</b>	<b>12,726.54</b>	<b>194,000.00</b>	<b>-181,273.46</b>	<b>6.56%</b>	<b>0.00</b>				<b>12,726.54</b>	<b>194,000.00</b>	<b>-181,273.46</b>	<b>6.56%</b>
<b>6300 · HABITAT ENHANCEMENT</b>												
6303 · Tributary Projects Support	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
6315 · Quiota Creek Crossing 8	27,961.34	1,176,000.00	-1,148,038.66	2.38%	0.00				27,961.34	1,176,000.00	-1,148,038.66	2.38%
<b>Total 6300 · HABITAT ENHANCEMENT</b>	<b>27,961.34</b>	<b>1,196,000.00</b>	<b>-1,168,038.66</b>	<b>2.34%</b>	<b>0.00</b>				<b>27,961.34</b>	<b>1,196,000.00</b>	<b>-1,168,038.66</b>	<b>2.34%</b>
7007 · INTEREST EXPENSE-EPPP	0.00				11,037.66				11,037.66	0.00	11,037.66	100.0%
<b>Total Expense</b>	<b>413,692.67</b>	<b>2,628,854.00</b>	<b>-2,215,161.33</b>	<b>15.74%</b>	<b>1,334,837.71</b>	<b>4,138,123.00</b>	<b>-2,803,285.29</b>	<b>32.26%</b>	<b>1,748,530.38</b>	<b>6,766,977.00</b>	<b>-5,018,446.62</b>	<b>25.84%</b>
<b>Net Surplus/Deficit</b>	<b>\$ 54,625.33</b>	<b>\$ -</b>	<b>\$ 54,625.33</b>	<b>100.0%</b>	<b>\$ 1,006,676.83</b>	<b>\$ -</b>	<b>\$ 1,006,676.83</b>	<b>100.0%</b>	<b>\$ 1,061,302.16</b>	<b>\$ -</b>	<b>\$ 1,061,302.16</b>	<b>100.0%</b>

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	November 18, 2019
Submitted by:	Janet Gingras

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**SUBJECT:** Investment Report – October 31, 2019

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### **RECOMMENDATION**

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of October 31, 2019.

### **DISCUSSION**

Cash and investment programs are maintained in accordance with California Government Code Section 53600 et seq. and COMB's adopted investment policy. These policies ensure proper control and safeguards are maintained throughout the financial transaction process. Pursuant to State law, the COMB Board adopts a detailed investment policy through a Board resolution on an annual basis.

Reports on COMB's investment portfolio and cash position are developed and presented to the COMB Board on a monthly basis, in conformity with the California Government Code.

#### Unrestricted Cash

Unrestricted cash exceeding current operating needs is invested in LAIF to generate interest income. The average monthly effective yield rate, as of October 2019, is reported at 2.190%.

See Table 1 below for a summary of balances held in unrestricted accounts.

TABLE 1			
Unrestricted Reserve Funds		Date	Principal
Local Agency Investment Fund (LAIF)			
Previous Balance		09/30/2019	\$ 820,250.03
(+) Deposits/Credits			-
(-) Checks/Withdrawals			-
Statement Balance		10/31/2019	\$ 820,250.03

#### Restricted Cash

The Cachuma Project Warren Act Trust Fund (Trust Fund) and Cachuma Project Master Contract Renewal Fund (Renewal Fund) are two separate funds that have been established through contracts with the U.S. Bureau of Reclamation (Reclamation). The Trust Fund and the Renewal Fund require annual and five-year plans which are used to inform the Funds Committee in making decisions on expenditures for betterment of the Cachuma Project.

See Table 2 below for a summary of balances held in restricted accounts.

TABLE 2			
Restricted Reserve Funds		Date	Principal
American Riviera Bank Renewal Account			
	Previous Balance	09/30/2019	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	10/31/2019	\$ 10,215.61
American Riviera Bank Warren Acct Trust Fund			
	Previous Balance	09/30/2019	\$ 691,617.72
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	10/31/2019	\$ 691,617.72

**STATEMENT**

The above statement of investment activity for the month of October, 2019, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank and LAIF investments of this agency for the period indicated.

  
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 Secretary

## Cachuma Operation &amp; Maintenance Board

## Paid Claims

As of October 31, 2019

Date	Num	Name	Memo	Amount
<b>1050 - General Fund</b>				
10/03/2019	27150	All Around Landscape Supply	Sycamore Canyon Slope Stabilization - Erosion Control Measures	-1,240.29
10/03/2019	27151	Assoc. of California Water Agencies	2020 Annual Agency Dues	-11,780.00
10/03/2019	27152	Boyd & Associates	Alarm Monitoring 10/1/19-12/31/19	-82.50
10/03/2019	27153	Business Card	Website Hosting, Uniforms, Water Pump, Supplies (Ops & Fisheries)	-2,755.71
10/03/2019	27154	CIO Solutions, LP	Phone System Upgrade Preparation for T-1 Connection	-525.00
10/03/2019	27155	Culligan of Sylmar	RO Rental October 2019	-28.95
10/03/2019	27156	Cushman Contracting Corp.	EPFP Pumping System - Pay Req #65	-3,500.00
10/03/2019	27157	Dino's Body Shop	2015 Ford F-150 Repair (Fisheries)	-1,292.20
10/03/2019	27158	ECHO Communications	Message Service October 2019	-67.35
10/03/2019	27159	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-2,025.00
10/03/2019	27160	Farm Supply Company	Quiota Creek Crossing 8 - Supplies	-168.03
10/03/2019	27161	Federal Express	Shipping (Ops & Fisheries)	-387.49
10/03/2019	27162	Giffin Rental & Western Welding	Goleta Reach ROW Maintenance (Ops)	-341.61
10/03/2019	27163	J&C Services	Office Cleaning Service - Weekly 9/6/19-9/27/19	-600.00
10/03/2019	27164	MarBorg Industries	Portable Facilities - Outlying Stations (Ops)	-358.49
10/03/2019	27165	Milpas Rental	Sycamore Canyon Slope Stabilization - Equipment Rental (Ops)	-217.26
10/03/2019	27166	Musick, Peeler & Garrett LLP	General Counsel August 2019	-7,212.65
10/03/2019	27167	Nestle Pure Life Direct	Operations Safety	-99.98
10/03/2019	27168	O'Reilly Automotive, Inc.	2016 Chevy Silverado - Replace Battery (Ops)	-160.03
10/03/2019	27169	OS Systems, Inc.	Dry Suit (Fisheries)	-782.21
10/03/2019	27170	Pacific Coast Jiffy Lube	2019 Ford F-150 Maintenance (Ops)	-117.04
10/03/2019	27171	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 9/6/19 & 9/20/19	-193.50
10/03/2019	27172	PG&E	Electricity - North Portal & Tecolote Tunnel (Ops)	-362.73
10/03/2019	27173	SB Home Improvement Center	Supplies (Ops)	-77.38
10/03/2019	27174	Southern California Edison	Electricity - Main & Outlying Stations	-1,445.89
10/03/2019	27175	Stewart's De-Rooting & Plumbing	Plumbing Services - Administration Trailer	-157.00
10/03/2019	27176	SWRCB - DWOCP	David Flora, Jr. - T2 Renewal (Ops)	-60.00
10/03/2019	27177	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee (Ops)	-227.80
10/03/2019	27178	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalpas 3051ci & 6052ci	-411.08
10/03/2019	27179	Wright Express Fleet Services	Fleet Fuel September 2019 (Ops & Fisheries)	-2,730.34
10/18/2019	27180	ACWA-Joint Powers Insurance Authority	Workers' Compensation Program 7/1/19-9/30/19	-11,170.83
10/18/2019	27181	ACWA/Joint Powers Insurance Authority	Auto & General Liability Deposit Premium 10/1/19-10/1/20	-40,716.00
10/18/2019	27182	All Around Landscape Supply	Sycamore Canyon Slope Stabilization - Supplies	-152.89
10/18/2019	27183	Association of Ca Water Agencies/JPIA	November Health Benefits Coverage	-33,901.64
10/18/2019	27184	AT&T	Long Distance Service 8/28/19-9/27/19	-50.00
10/18/2019	27185	Bartlett, Pringle & Wolf, LLP	Audit Services FY 2018-19	-14,745.50
10/18/2019	27186	California Special Districts Association	2020 CSDA Membership Renewal	-1,446.00
10/18/2019	27187	City of Santa-Barbara	Trash / Recycling September 2019	-285.46
10/18/2019	27188	Coastal Copy, LP	Copier Maintenance Agreement - Taskalpas 3051ci & 6052ci	-664.32
10/18/2019	27189	Cori Hayman	Director Fees September 2019	-323.20
10/18/2019	27190	Cox Communications Santa Barbara	Business Internet October 2019	-140.00
10/18/2019	27191	Esys The Energy Control Company	Purchase & Install of Solenoid Control Valve Coils at Lauro (Ops)	-1,935.69
10/18/2019	27192	Frontier Communications	Phone Service - Alarm/Fax/Modems/Board Room	-185.46
10/18/2019	27193	Frontier Communications	Phone Service - Carpinteria Reservoir	-60.39
10/18/2019	27194	Frontier Communications	Phone Service - North Portal	-60.39
10/18/2019	27195	Frontier Communications	Phone Service - Ortega Reservoir	-60.39
10/18/2019	27196	Harrison Hardware	Supplies (Fisheries)	-532.39
10/18/2019	27197	HDR Engineering, Inc.	FMP Implementation & Quiota Creek Crossing 8 - Engineering Services	-1,602.12
10/18/2019	27198	HDR Engineering, Inc.	San Jose Creek Pipe Stabilization - Engineering Services	-12,630.00
10/18/2019	27199	Home Depot Credit Services	Supplies (Ops & Fisheries)	-339.74
10/18/2019	27200	Impulse Advanced Communications	Phone Service - Main	-447.38
10/18/2019	27201	Krazan & Associates, Inc.	Quiota Creek Crossing 8 - Engineering Services	-371.00
10/18/2019	27202	Kristen Sneddon	Director Fees September 2019	-309.62
10/18/2019	27203	Lauren W. Hanson	Director Fees September 2019	-467.40
10/18/2019	27204	Pacific Coast Jiffy Lube	2015 Silverado - Oil Change (Ops)	-129.68
10/18/2019	27205	Polly Holcombe	Director Fees September 2019	-433.22
10/18/2019	27206	Premiere Global Services	Conference Calls September 2019	-49.00
10/18/2019	27207	Smitty's Towing	Vehicle Maintenance - Water Truck (Fisheries)	-420.00
10/18/2019	27208	Southern California Edison	Electricity - Outlying Stations (Ops)	-29.36
10/18/2019	27209	Staples Credit Plan	Office Supplies (Ops & Fisheries)	-372.50
10/18/2019	27210	Turenchalk Network Services, Inc.	Computer for General Manager	-701.91
10/18/2019	27211	Turenchalk Network Services, Inc.	Network Support	-4,134.35
10/18/2019	27212	Verizon Wireless	Operations Cell Phones, iPads, Modems	-794.23
10/24/2019	27213	American Fisheries Society	American Fisheries Society 2020 Dues	-105.00
10/24/2019	27214	Aqua-Flo Supply	Supplies (Ops)	-16.32
10/24/2019	27215	Cushman Contracting Corp.	EPFP Pumping System - Pay Req #66	-3,500.00
10/24/2019	27216	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-1,500.00
10/24/2019	27217	Famcon Pipe & Supply	Supplies - South Coast Conduit Maintenance (Ops)	-7,525.50

**Cachuma Operation & Maintenance Board**  
**Paid Claims**  
As of October 31, 2019

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
10/24/2019	27218	Federal Express	Shipping (Ops & Fisheries)	-144.65
10/24/2019	27219	Flowers & Associates, Inc.	Sycamore Canyon Slope Stabilization - Engineering Services	-4,968.94
10/24/2019	27220	HDR Engineering, Inc.	In-Line Isolation Valve - Engineering Services (Ops)	-25,149.52
10/24/2019	27221	Instrument & Valve Services Company	Calibration of Equipment (Ops)	-1,918.36
10/24/2019	27222	MarBorg Industries	Portable Facilities - Outlying Stations (Ops)	-358.49
10/24/2019	27223	Musick, Peeler & Garrett LLP	General Counsel September 2019	-2,885.82
10/24/2019	27224	Otis Elevator Company	North Portal Elevator Maintenance - Service 10/1/19-3/31/20 (Ops)	-2,984.96
10/24/2019	27225	PG&E	Electricity - North Portal & Tecolote Tunnel (Ops)	-438.79
10/24/2019	27226	Prober Land Surveying	San Jose Creek Pipe Stabilization - Surveying	-450.00
10/24/2019	27227	Santa Barbara Concrete Cutting	Sycamore Canyon Slope Stabilization - Vault Wall Core Drilling	-300.00
10/24/2019	27228	The Gas Company	Gas - Main Office	-1.03
10/25/2019	102519A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
10/25/2019	102519B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
10/31/2019	27229	All Around Landscape Supply	Erosion Control Supplies (Ops)	-685.64
10/31/2019	27230	Business Card	Website Hosting, Supplies (Ops & Fisheries)	-386.47
10/31/2019	27231	ECHO Communications	Message Service November 2019	-66.00
10/31/2019	27232	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Study - Sampling	-1,220.00
10/31/2019	27233	Jim Vreeland Ford	Purchase of 2019 Ford Ranger (Fisheries)	-28,941.74
10/31/2019	27234	Manzanita Nursery	Habitat Restoration Materials (Ops)	-34.48
10/31/2019	27235	Salmonid Restoration Federation	2020 Co-Sponsorship of 38th Annual SRF Conference (Fisheries)	-1,000.00
10/31/2019	27236	Santa Barbara Natives, Inc.	Habitat Restoration Materials (Ops)	-278.00
10/31/2019	27237	SBCCSDA	Associate Member Dues 2020	-50.00
10/31/2019	27238	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalfas 3051ci & 6052ci	-411.08
Total 1050 - General Fund				-292,868.32
<b>TOTAL</b>				<b><u>-292,868.32</u></b>

**APPROVED FOR PAYMENT**

Director \_\_\_\_\_

Director \_\_\_\_\_

Director \_\_\_\_\_

# CACHUMA OPERATION & MAINTENANCE BOARD

## Lake Cachuma Oak Tree Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

**Friday, November 1, 2019**

**11:30 AM**

### AGENDA

*Chair: Director Hayman*  
*Member: Director Sneddon*

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Lake Cachuma Oak Tree Restoration Program Update (*for information*)
4. 2018 Annual Report of the Lake Cachuma Oak Tree Restoration Program (*for review and discussion*)
5. Fiscal Year 2019-20 Lake Cachuma Oak Tree Restoration Program (*for information and consideration*)
6. Adjournment

#### NOTICE TO THE PUBLIC

**Public Comment:** The public is welcome to attend and observe the meeting. A public comment period will be included at the meeting where any member of the public may address the Committee on any subject within the Committee's jurisdiction. The total time for this item will be limited by the Chair.

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Cachuma Operation & Maintenance Board (COMB) at 687-4011 at least 48 hours prior to the meeting to enable staff to make reasonable arrangements.

[This Agenda was posted at COMB offices, 3301 Laurel Canyon Road, Santa Barbara, CA and Noticed and Delivered in Accordance with Section 54954.1 and .2 of the Government Code.]

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# CACHUMA OPERATION & MAINTENANCE BOARD

## Operations Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

**Monday, November 11, 2019**  
**10:00 a.m.**

### AGENDA

*Chair:* Director Sneddon  
*Member:* Director Holcombe

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Supervisory Control and Data Acquisition System (SCADA) Programmable Logic Controllers Replacement (*for information and possible recommendation*)
4. Engineering / Operations Activities Update (*for information*)
5. Adjournment

#### NOTICE TO THE PUBLIC

**Public Comment:** The public is welcome to attend and observe the meeting. A public comment period will be included at the meeting where any member of the public may address the Committee on any subject within the Committee's jurisdiction. The total time for this item will be limited by the Chair.

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Cachuma Operation & Maintenance Board (COMB) at 687-4011 at least 48 hours prior to the meeting to enable staff to make reasonable arrangements.

[This Agenda was posted at COMB offices, 3301 Laurel Canyon Road, Santa Barbara, CA and Noticed and Delivered in Accordance with Section 54954.1 and .2 of the Government Code.]

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	November 18, 2019
Submitted by:	Joel Degner
Approved by:	Janet Gingras

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**SUBJECT:**     **Supervisory Control and Data Acquisition System (SCADA) Programmable Logic Controllers (PLC) Replacement**

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**RECOMMENDATION:**

The Board of Directors review the staff recommendation and proposed cost for the Supervisory Control and Data Acquisition (SCADA) system upgrade and authorize the General Manager to execute a Professional Services Agreement contract with Aspect Engineering Group in an amount not to exceed \$35,000.

**SUMMARY:**

The “Supervisory Control and Data Acquisition” system (SCADA) serves to collect important monitoring data on flows, reservoir elevations, alarms, communication, turbidity, pH, temperature, and valve positions. The SCADA system increases the efficiency of COMB staff by providing notification alarms for operational staff to investigate, which enhances system reliability.

Installation of the COMB Supervisory Control and Data Acquisition (SCADA) system began in 2003. The programmable logic controllers (PLC) COMB owns and operates are in need of upgrade to maintain system functionality. This first phase project would involve the replacement of one legacy PLC in preparation for a future program to replace all legacy PLCs. The scope of work includes installation and programming of new PLC equipment and sensors and two days of SCADA programming to improve the SCADA system reporting for operational purposes at other sites. This important project will be the model in developing the approach to upgrade COMB’s PLC’s and SCADA system prior to an operational impact occurring due to the failure of a PLC. COMB staff is in the process of developing an outline for a SCADA Master Plan which is intended to identify deficiencies, recommend essential improvements, and provide guidance for eventual implementation of the recommendations.



COMB requested SCADA technical services from three separate SCADA contractors. Aspect Engineering Group was the most qualified. Aspect has worked with COMB’s Member Agencies and provides the requisite knowledge and experience for upgrading the existing SCADA system. On a per day basis, Aspects’ SCADA engineer was 20 percent lower than the nearest competitor. The PLC replacement project would include \$8,422 for materials and \$23,821 for labor based on time & materials (not-to-exceed) for a total of \$32,243. An additional \$2,747 would be reserved for SCADA programming work needed at other PLC sites for a total of \$35,000.

**FISCAL IMPACTS:**

The SCADA budget for fiscal year 2019-20 is \$35,000. The cost proposal is within COMB's current budget for upgrades to the SCADA system.

**ENVIRONMENTAL COMPLIANCE:**

There are no environmental compliance measures required for SCADA system upgrade activities.

**COMMITTEE STATUS:**

The Operations Committee reviewed the staff recommendation and forwards the proposed cost for the SCADA system upgrade to the Board with a recommendation to approve and authorize the General Manager to execute a Professional Services Agreement contract with Aspect Engineering Group in an amount not to exceed \$35,000.



Mission Statement:

*“To provide a reliable source of water to our member agencies in an efficient and cost effective manner for the betterment of life in our communities.”*

November 18, 2019

## **General Manager Report**

The following summary provides the Board with information and an overview of progress on current COMB activities.

### Personnel

- **Reclamation Dam Tender Training**

Staff was invited to participate in Reclamation’s Dam Tender training program which took place in early November. The three day training session included classroom and on-site training to discuss and review facilities, learn about Reclamations’ lessons learned from previous incidents, outline performance and instrumentation monitoring techniques, discuss emergency management protocols, review inspection of Dams and equipment, overview safety and security procedures, and address record keeping. Staff reviewed Bradbury and Lauro Dam standard operating procedures on site and toured Casitas Dam facilities.

- **ACWA JPIA Sexual Harassment Prevention for Managers**

COMB management staff participated in required Sexual Harassment Prevention training sponsored by ACWA/JPIA. The two-hour training program satisfies the California requirement for management training as established by AB 1825, AB 2053, and AB 1661. The course guides managers through the harassment investigation process including interviewing a complainant, alleged harasser, and witnesses. The program also covers the emotional aspects of harassment and the important of creating a safe work environment where employees can report harassment violations without fear of retaliation. Upon completion of the course, managers should understand the California and federal sexual harassment laws, recognize early signs of harassment, investigate and resolve harassment complaints, and meet the requirements of the law.

- **CPR Training**

Staff participated in required biennial hands-on first aid, cardiac-pulmonary resuscitation (CPR) and automated external defibrillator (AED) training. Instructions on preparing to respond properly to a first aid situation as well as cardiac emergencies was reviewed in addition to the proper use of an automated external defibrillator (AED) machine. Staff received a CPR, AED and first aid guideline manual and a certification card that is valid for two years.

### Administration

- **Association of California Water Agencies (ACWA) Presidents Special Recognition Award**

Each year at the Fall Conference hosted by ACWA, the JPIA recognizes members that have a loss ratio of 20% or less in the Liability, Property, or Worker’s Compensation programs. The Member’s with this distinction receive the “President’s Special Recognition Award” certificate for each program in which they qualify. COMB received the award (attached) for achieving a low ratio of paid claims and case reserves in the Liability Program for the period of October 1, 2015 through September 30, 2018.

Engineering / Operations

- **AWIA Risk and Resiliency Plan**

Staff continues work on the Vulnerability Self-Assessment Tool (VSAT) for the Risk and Resiliency Plan and certification required by the America's Water Infrastructure Act (AWIA) of 2018. In addition, staff is in the process of becoming certified with online training courses offered on this subject through our membership in the America Water Works Association. The training courses provide a foundation for supporting water utilities in the development of an all-hazards approach to risk and resilience management. The certificate program is based on several AWWA standards and associated resources that facilitate compliance with provisions of America's Water Infrastructure Act (AWIA) of 2018, which must be met by March 2020. Participants learn about AWIA requirements for risk and resilience assessments and emergency response plans. Course content includes examples of how utilities can apply the various AWWA standards and resources to aid in compliance with AWIA.

- **USBR SCC Inspection**

Reclamation will be conducting a Review of Operation and Maintenance (RO&M) inspection on the South Coast Conduit (SCC) per required Directives and Standards. The RO&M Program was established by Reclamation in 1948 as a periodic review and field examination program of constructed project facilities and systems. The primary objective of the program and related field examinations continues to be the promotion of a preventive maintenance philosophy to identify deficiencies and issues at an early stage, and through recommended actions, avoid more significant concerns such as service interruptions, structural failures, and extraordinary operation and maintenance (O&M) activities. By avoiding such concerns, the service lives of these structures, facilities, and systems can be lengthened, and the need for significant outlays by Reclamation and/or the related operating entity can also be avoided.

Respectfully Submitted,

*Janet Gingras*  
General Manager



YOUR BEST PROTECTION

## ACWA JPIA

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Roseville, CA 95661-9082

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**President**  
E.G. "Jerry" Gladbach

**Vice President**  
Tom Cuquet

**Chief Executive Officer**  
Walter "Andy" Sells

**Executive Committee**  
Fred Bockmiller  
Tom Cuquet  
David Drake  
E.G. "Jerry" Gladbach  
Brent Hastey  
Steven LaMar  
Melody A. McDonald  
J. Bruce Rupp  
Kathleen Tiegs

October 15, 2019

Cachuma Operation and Maintenance Board (C013)  
3301 Laurel Canyon Road  
Santa Barbara, CA 93105-2017

Janet:

Each year at Fall Conference, the JPIA recognizes members that have a Loss Ratio of 20% or less in either of the Liability, Property, or Workers' Compensation programs (loss ratio = total losses / total premiums).

The members with this distinction receive the "**President's Special Recognition Award**" certificate for each Program that they qualify in.

The JPIA is extremely pleased to present Cachuma Operation and Maintenance Board (C013) with this special recognition and commends the District on the hard work in reducing claims.

Congratulations to you, your staff, Board, and District. Keep up the good work!

The JPIA wishes you the best in 2020.

Sincerely,

E.G. "Jerry" Gladbach  
President

Enclosure: President's Special Recognition Award(s)

# *President's Special Recognition Award*

*The President of the  
ACWA JPIA  
hereby gives Special Recognition to*

## *Cachuma Operation and Maintenance Board*

*for achieving a low ratio of "Paid Claims and Case Reserves" to "Deposit Premiums"  
in the Liability Program for the period 10/01/2015 - 09/30/2018  
announced at the Board of Directors' Meeting in San Diego.*



*E. G. "Jerry" Gladbach, President*



*December 02, 2019*

# CACHUMA OPERATION AND MAINTENANCE BOARD

## MEMORANDUM

**DATE:** November 18, 2019  
**TO:** Janet Gingras, General Manager  
**FROM:** Joel Degner, Water Resources Engineer  
**RE: MONTHLY ENGINEERING/OPERATIONS REPORT**

The following summary provides the Board with information and an overview of progress by engineering staff related to on-going studies and infrastructure improvement projects.

### CLIMATE CONDITIONS

Water exports from Lake Cachuma in October continued to be lower than anticipated (approximately 30 percent) despite higher than average reference evapotranspiration rates on the South Coast (Figure 1). Pan evaporation rates at Lake Cachuma were slightly higher than normal in October as well (Figure 2). There was no rain measured in October and watershed conditions are very dry and still at risk for potential wildfires. ENSO-neutral is favored during the Northern Hemisphere fall 2019 (~85% chance), continuing through spring 2020 (55-60% chance) based on the National Weather Service Climate Prediction Center. The three-month seasonal climate outlooks for November, December, and January is for below-normal precipitation for most of California.

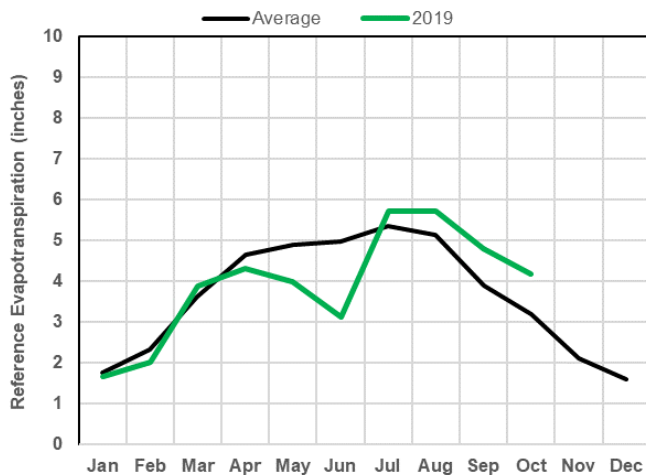


Figure 1. Santa Barbara CIMIS Station 107

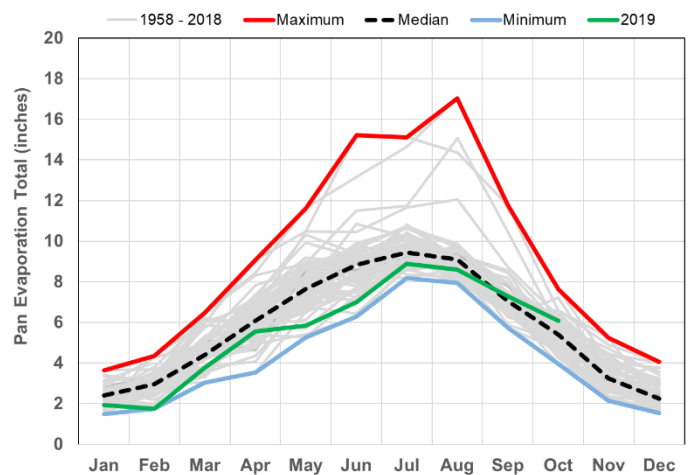


Figure 2. Lake Cachuma Pan Evaporation

### LAKE CACHUMA WATER QUALITY AND SEDIMENT MANAGEMENT STUDY

Member agency technical staff met with Woodard & Curran on October 30<sup>th</sup> to discuss the Phase 1 report and reviewed and provided comments on a draft list of potential solutions that would be evaluated in Phase 2 of the study.

## **INFRASTRUCTURE IMPROVEMENT PROJECT STATUS**

Table 1 provides a summary of the FY 2019-20 Infrastructure Improvement Projects. COMB staff is preparing the draft of the 2021-2025 Infrastructure Improvement Plan and performing a risk and resilience assessment per America's Water Infrastructure Act requirements.

**Table 1. Fiscal Year 2019-2020 Infrastructure Improvement Projects Status**

<b>Infrastructure Improvement Projects</b>	<b>Status / Phase</b>	<b>Complexity / Challenges</b>	<b>Estimated Completion Date</b>
<b>Infrastructure Improvement Projects</b>			
Sycamore Canyon Slope Stabilization	Construction project completed at the end of September 2019.	February 2017 storms exposed the South Coast Conduit on a steep slope in the Sycamore Canyon area. Project designed to stabilize slope and improve drainage to protect the SCC.	Completed (September 2019)
San Jose Creek SCC Stream Protection Measures	Construction project completed at the end of October.	South Coast Conduit was exposed in San Jose Creek and required stream protection measures to prevent damage and water supply disruption.	Completed (October 2019)
SCC Structure Rehabilitation (AVAR/BO)	Construction work planned for January 2019.	Shutdown needs to be closely coordinated with MWD with system tests being performed prior to shutdown.	Schedule D and E planned for Winter 2019-2020.
SCC Line Valves for Shutdown	Engineering plans and specifications are completed. Notice of Interest for Hazard Mitigation Funding accepted. Subapplication due in early December.	Additional line valves in the SCC could better facilitate planned maintenance activities or mitigate pipeline outages.	Grant is being pursued through Hazard Mitigation Grant Program.
SCC Structure Rehabilitation : Lower Reach Laterals	Draft designs have been completed and under review. Project included a high resolution aerial flight and structure survey which improves accuracy of conduit location.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement.	Construction planned for Spring/Summer 2019
<b>Special Projects</b>			
Emergency Pumping Facility Project	Key components of the barge are currently being stored under contract. Design plans and specifications are being prepared. Materials are being prepared for the environmental review process.	With the increase in lake levels in 2019, the lake elevation is projected to remain above 685 until the Summer/Fall 2021.	TBD
Lake Cachuma Water Quality and Sediment Management Study	Technical review meeting conducted on October 30, 2019. Contractor is proceeding with Phase 2 of the study to develop solutions and a long-term monitoring program. Supplemental sampling for nutrient contributions from Lake Cachuma tributaries is planned this winter.	Recent wildfires and subsequent storm events have resulted in decreased water quality and increased sedimentation into Lake Cachuma.	June 2020



## MONTHLY REPORT OF OPERATIONS – OCTOBER 2019

The total flow from Lake Cachuma into the Tecolote Tunnel for October was 1664.8 acre-feet, for an average daily flow of 54 acre-feet. Lake elevation was 735.39 feet at the beginning of October and 734.43 feet at the end of October. Storage decreased by 3,014 acre-feet. CCWA wheeled 0 acre-feet of water to Cachuma Project facilities. The City of Santa Barbara wheeled 580.23 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was tested and placed back in operation on October 30th, 2019 by Reclamation. For most of October water was delivered to Hilton Creek via the dam outlet works through the emergency backup system, which prevents the delivery of CCWA water into the lake.

The Operations Division of the Cachuma Operation and Maintenance Board has the responsibility to operate, repair and maintain all Cachuma Project facilities from the Intake Tower at Lake Cachuma to the Carpinteria Reservoir. The Annual Work Plan sets forth all activities necessary to ensure system reliability. Consistent with the Plan, Operation and Maintenance staff performs routine maintenance on the distribution and storage system. Staff continues to improve the system, address deficiencies and identify items to be included in the Infrastructure Improvement Program of work. Operations Division is responsible for:

- Adequately regulating and maintaining the diversion of water from Lake Cachuma to the South Coast via the Tecolote Tunnel as the primary water source for 5 communities.
- Operation and maintenance of the South Coast Conduit pipeline, which consist of 26.5 miles of pipeline with a combined 124 blow off and air vent structures, 43 turnout structures and 20 meters.
- Operation and maintenance of four regulating reservoirs.

South Coast Conduit - Structure Inventory													
Reach	Endpoints	Linear Length (ft)	Pipe Diameter	Regulating Storage Reservoirs	Meters	Air Vents	Blow-Offs	Turnouts	Open Air Vents	Valves	Valve Size	Slide Gates	Capacity / Volume (gal)
Upper	Glen Annie Turnout (S. Portal) - Cater Water Treatment Plant	64,050	48"	2	5	32	35	18	2	115	4" - 48"	7	6,017,421
Lower	Cater Water Treatment Plant - Carpinteria Reservoir	90,910	27" - 36"	2	15	26	31	42	4	144	4" - 36"	-	3,190,171

Routine operation and maintenance completed during the month of October were as follows:

- Conducted seven flow changes at the North Portal during the month of October (7 surface, no gate chamber)
- Responded to 65 USA Dig alerts
- Reviewed three projects for right of way conflicts
- Performed weekly inspections of major facilities, safety meetings, rodent bait (all reservoirs), toe drain and piezometer reads at Ortega (L23)
- Performed dam inspection and instrumentation reports (all reservoirs)
- Performed equipment and yard maintenance
- Read anodes and rectifier data

In addition regular activities described above, Operations staff performed the following:

- Completed Upper Reach Structure Maintenance
- Began winterization of Upper Reach – checking all drop inlets, culverts, valve pits, flood alarms
- Monitored and watered planted trees at the San Jose Creek project
- Participated in Bureau of Reclamation Dam Tender Training – Bradbury, Lauro, Glen Anne, Ortega & Carpinteria Dams
- Participated in a site tour of Casitas Dam

- Simulated Emergency Action Plan earthquake inspections on all dams operated and maintained by COMB
- Participated in First Aid and CPR training
- Conducted Lake Cachuma water quality monitoring activities
- Performed maintenance and repair of the North Portal Backup Generator

## San Jose Creek Project



*San Jose Creek crossing pre-project*



*San Jose Creek crossing post-project with native hydro-seeding and tree planting and invasive Arundo removed*

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	November 18, 2019
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT:** Quiota Creek Crossing 8 Fish Passage Improvement Project Update

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**RECOMMENDATION:**

The Board of Directors receive and file an update on the Fish Passage Improvement Project at Quiota Creek Crossing 8.

**SUMMARY:**

***Project Description:*** A 54-foot prefabricated bottomless arched culvert with four wing walls is planned to replace a damaged concrete low flow crossing with temporary bridge placed on top at Quiota Creek Crossing 8. The project is being designed to the minimum design standards set by all regulatory agencies. The project construction began on 9/30/19 and will be completed in December of 2019. All funding for this project has been secured from a CDFW-FRGP grant (\$1,010,700) with Member Agency assessments and a COMB construction match. The funding and project were accepted through Resolution No. 682 by the COMB Board on January 28, 2019. The COMB General Manager, through Resolution No. 701, was given Board authorization to pay the County Encroachment Permit, purchase the Contech bridge system, and issue a construction contract to the lowest responsive and responsible bidding contractor, Peter Lapidus Construction. Final design approval and the Notice to Proceed (NTP) from CDFW-NMFS have been received. The County has approved the designs and issued the Encroachment Permit for the project. All permits for the project have been secured. COMB's resident engineer for the project is Gino Filippin of Filippin Engineering who has been approved by the County. The temporary construction Right-of-Entry Agreements from the landowners within the project boundary have been obtained.

***Project Location:*** The nearest town is Santa Ynez. Quiota Creek Crossing 8 is located off of Hwy 246 via Refugio Road 4.9 miles south of Hwy 246. The road is closed at the project site.

***Contractor:*** Peter Lapidus Construction (PLC); the construction contractor who was awarded the competitive bid for \$719,975, was issued a Notice to Proceed on 9/25/19.

***Design Engineer:*** Michael Garelo and Shaun Bevan, HDR Fisheries Design Center.

***Resident Engineer:*** Gino Filippin, Filippin Engineering.

***County Engineers:*** Ron Bensel, Steven Manuel, Eric Pearson, and Jemmi Irabon.

**Project Status and Timetable (as of the Board meeting date):**

Status	Time
Notice to Proceed	9/25/2019
Construction start	9/30/2019
Refugio Road closure	9/30/2019
Contract Time (approximate to complete all work)*	3 months
Completion Date and Refugio Road reopened	12/13/2019
Number of construction work days (WD**) (expected)	52
Elapsed Time (WD to the Board mtg)	36
Remaining Time (WDs to complete all work)	16
Time Elapsed (WD) to Date (%)	69%
**WD: Working Days.	

**Work Performed to Date:** PLC has completed all of the clearing and grubbing at the site, completely removed the small bridge and remains of the concrete crossing below, excavated both foundations, formed and poured both foundations, installed both rock weirs with engineered streambed materials in between plus installed downstream the salvaged rootwad, installed all the rock slope protection around the bridge foundations, and completed all stream work, and is nearing completion of the backfill of the arches. ConTech completed fabrication of the arch-bridge system at Bethlehem Construction in Wasco, CA on 10/25/19. The bridge was shipped to the site on 10/28/19 and installed on 10/29/19. COMB's resident engineer and County engineers have been overseeing the project during all phases of the construction. The pre-project condition (Figures 1-2) and current construction efforts (Figures 3-10) are presented as Exhibits.

**Work Projected for Next Month:** Construct the roadway, stain and graffiti proof the bridge, install the bridge rails and guardrails, pave the road, plant all the mitigation trees, hydro-mulch/seed the disturbed areas within the project footprint, and perform final site cleanup.

**FINANCIAL IMPACT:**

COMB is obligated to a \$50,000 construction match, \$65,727 for staff time (COMB services), and \$121,398 for operations expenses (independent design review, all permit fees, etc.). The COMB budget provides \$1,176,000 for construction for this fiscal year. Revenues will cover the costs to purchase the ConTech arch system, construction of the project, and operating expenses. A summary of the estimated project costs and available funding for the project (Table 1) and the current expenditures (Table 2) are presented below.

**Table 1:** Estimated project cost and available funds for the project.

	FY 2019-20
Estimated Construction Cost	
Construction Estimate (*)	\$ 1,073,575
Project Management and Oversight	65,727
Operating Expenses	121,398
	<b>Sub Total:</b> \$ 1,260,700
Available Funding	
CDFW Grant (Operating and Construction)	\$ 1,010,700
Member Agency Assessments	250,000
	<b>Sub Total:</b> \$ 1,260,700
Balance to be Funded by Member Agencies	\$ -
(*) Includes ConTech Invoice for Bridge System	

**Table 2:** Expenditures to date for the project.

<b>Estimated Project Costs / Available Funds:</b>			<b>\$1,260,700</b>
<b>Total Expenditure to Date:</b>	<b>FY19</b>	<b>FY20</b>	<b>TOTAL</b>
Contech Bridge (delivered + tax) - Invoice 1:		\$309,501	\$309,501
Contech Bridge (delivered + tax) - Invoice 2:		\$2,290	\$2,290
Geotechnical Services (Fugro) - Invoice 1:		\$2,143	\$2,143
Materials Testing - Krazan (fabrication) - Invoice 1:		\$371	\$371
PLC - Invoice 1:		\$371,075	\$371,075
Materials Testing - Krazan (fabrication) - Invoice 1:		\$371	\$371
Materials Testing - Krazan (fabrication) - Invoice 2:		\$5,034	\$5,034
Onsite material Testing (Fugro) - Invoice 1:		\$2,579	\$2,579
Project Engineering Design - HDR - Invoice 1:		\$5,550	\$5,550
Project Engineering Design - HDR - Invoice 2:		\$147	\$147
Project Engineering Design - HDR - Invoice 3:		\$1,333	\$1,333
Project Engineering Design and Oversight - HDR - Invoice 4:		\$11,725	\$11,725
Prober Land Survey:	\$2,340		\$2,340
Farm Supply Company:		\$168	\$168
Tri-Co Reproduction - all invoices:	\$201	\$90	\$290
SB County Encroachment Permit Fee:	\$10,000	\$20,303	\$30,303
CDFW 1600 Permit Fee:	\$5,313		\$5,313
<b>Total Paid:</b>	<b>\$17,854</b>	<b>\$732,678</b>	<b>\$750,532</b>
<b>Summary:</b>			
<b>% Project Expenditures through 11/18/2019:</b>			<b>59.5%</b>
<b>Funds Remaining (Est. Costs minus Total Expenditures)*:</b>			<b>\$510,168</b>
* Funds remaining will be reduced by Project Management and Oversight plus Operating Expenses.			

**LEGAL CONCURRENCE:**

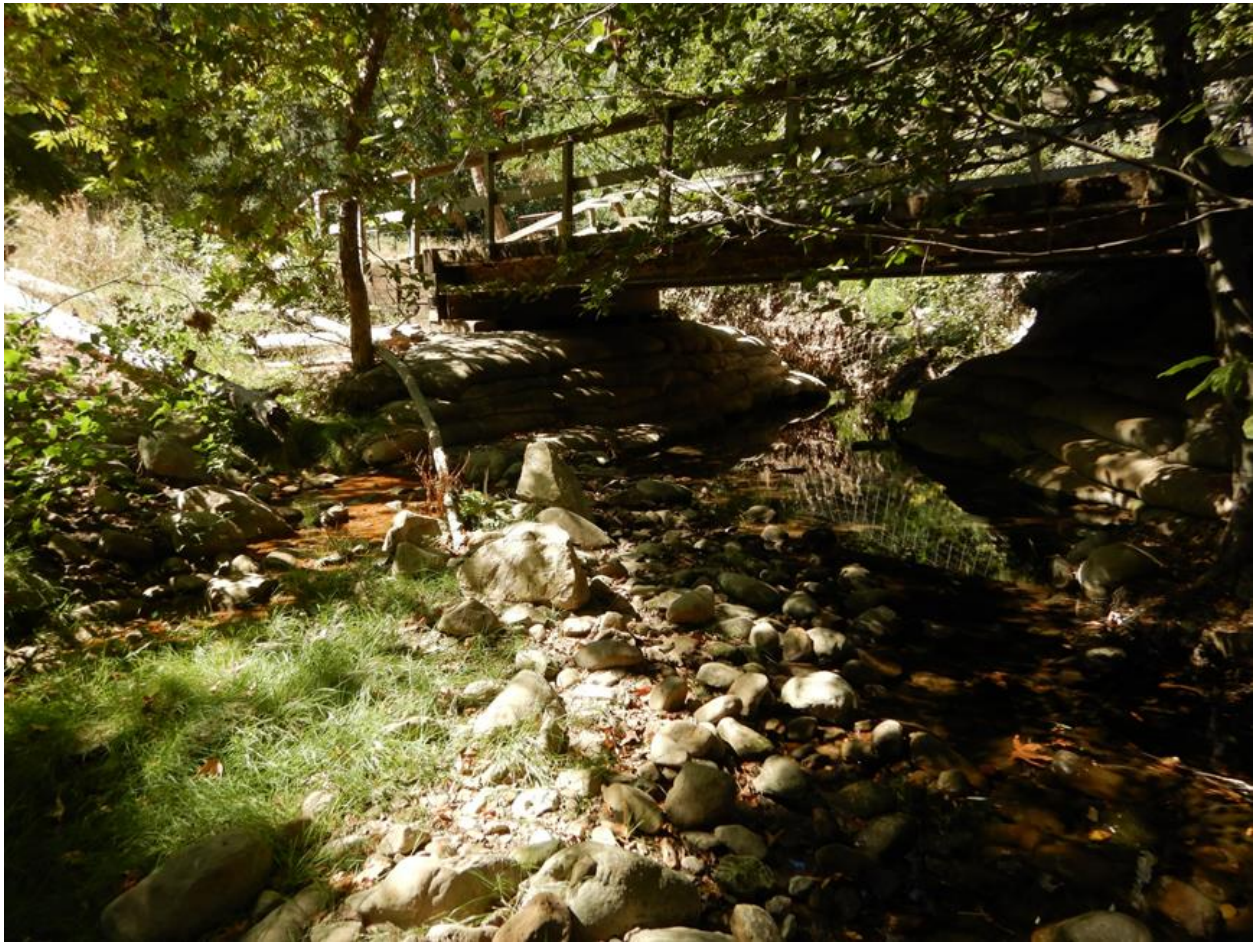
COMB legal counsel has reviewed all contract documents related to the project.

**ENVIRONMENTAL COMPLIANCE:**

All permits have been obtained and are being followed.

**LIST OF EXHIBITS:**

Construction photos:



**Figure 1:** Pre-project condition looking south under the sub-standard temporary bridge with damaged low flow culvert below.





**Figure 2:** Pre-project conditions looking south across the temporary bridge.



**Figure 3:** Bridge delivery to the site.



Figure 4: Bridge install.



Figure 5: Bridge install.



**Figure 6:** Arch piece transfer from low to high trailer.



**Figure 7:** Placing grout under the arches and wing walls.



Figure 8: Backfilling of the bridge.



**Figure 9:** Installing rock slope protection and finalizing the stream channel.



**Figure 10:** Stream bottom with two created step pools looking upstream under the bridge.



# CACHUMA OPERATION AND MAINTENANCE BOARD

## BOARD MEMORANDUM

**DATE:** November 18, 2019  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE: MONTHLY FISHERIES DIVISION REPORT**

### HIGHLIGHTS:

- USBR is now delivering approximately 3.2 cfs of Lake Cachuma water to Hilton Creek by gravity through the Hilton Creek Watering System (HCWS) which is sustaining the *O. mykiss* population in the creek.
- USBR continues to work on the HCWS which is now providing gravity flow to Hilton Creek at the Upper Release Point. The needed parts to repair the control panel on the HCWS pumping barge have been ordered and no specific installation date has been determined. The Hilton Creek Emergency Backup System (HCEBS) is set to operate if the HCWS unexpectedly shuts off.

In compliance with the 2000 Cachuma Project Biological Opinion (BiOp) (NMFS, 2000) and as described in the 2004 Lower Santa Ynez River Fish Management Plan (SYRTAC, 2000) and the Monitoring Program in the 2000 Revised Biological Assessment (BA), the COMB Fisheries Division (FD) staff conducts routine monitoring of steelhead/rainbow trout and their habitat on the Lower Santa Ynez River (LSYR) below Bradbury Dam. The following is a list of activities carried out by COMB-FD staff since the last COMB Board Fisheries Division Report and has been broken out by categories.

### LSYR Steelhead Monitoring Elements:

***Thermograph Network:*** The thermograph network is deployed at the beginning of April and picked up at the end of December to record water temperatures at all designated locations within the LSYR mainstem and several tributaries. The thermograph network has been deployed in the LSYR mainstem and its tributaries. Thermographs are downloaded monthly and the results are summarized in the Annual Monitoring Report.

***Lake Profiles:*** Lake Cachuma water quality measurements (temperature, dissolved oxygen concentration solids and turbidity) at one meter intervals from the surface to the bottom of the lake (Lake Profile) are taken once a month at the Hilton Creek Watering System (HCWS) Intake Barge. This is considered to be near the deepest point in the lake and allows for monitoring of lake stratification, water quality conditions at the intake level for the HCWS and lake-turnover. Due to the drought and the need to carefully monitor Lake Cachuma, lake profiles are being taken monthly throughout the year and are reported in the Annual Monitoring Summary.

***Snorkel surveys:*** Snorkel surveys for *O. mykiss* and non-native fish are conducted three times a year. The third survey at the end of the fall was initiated 2 weeks ago and will wrap up by the end of November. The results are presented in the annual monitoring report.

**Cachuma Lake Oak Tree Restoration Program:** COMB staff, with guidance from a hired professional arborist, continues to implement the Program and has successfully conducted all management actions as required. A project update is provided in a separate Board memo.

**Tributary Project Updates:**

**Quiota Creek Crossing 8:** Funding for this project has been secured through a CDFW-FRGP grant that was submitted on 3/29/18 for \$1,010,700 with a \$50,000 construction match from COMB as approved by the COMB Board during the 2/26/18 Board meeting. COMB was awarded this grant on 12/5/18 and the Board accepted the grant by resolution on 1/28/19. Staff has submitted all permit applications and designs for review by the County and NMFS-CDFW. Project construction started on 9/30/19 after receiving final design approval and obtaining all necessary permits. A separate Board memo is provided that discusses the project status and financials.

**Hilton Creek Watering System (HCWS) and Emergency Backup System (HCEBS) Repairs:**

**HCWS and HCEBS:** The HCWS and HCEBS are owned, operated, and maintained by USBR. The HCEBS was completed at the end of January 2016. USBR technical staff continues to consider improvement options for the HCWS. Currently USBR is delivering water to Hilton Creek through the HCWS by gravity flow to the Upper Release Point. USBR switched from the HCEBS to the HCWS on 10/30/19 and no issues were observed.

Needed parts are on order for the control panel on the HCWS pumping barge, with no date set for installation.

**Surcharge Water Accounting:**

The following table summarizes the amount of surcharge water used to date from each of the three accounts plus project yield at the end of last month (Table 1). All numbers are from USBR's Daily Operations Report. The start time for the use of the Surcharge Water Accounts and Project Yield was 5/27/11, or the day following the last day of full surcharge and end of the last spill event. As of May 2012, all of the fish rearing accounts have been used and USBR is now using Project Yield to meet BiOp target flows. Water Right (WR 89-18) release durations since 2013 are noted as follows: 7/15/13 - 12/2/13, 8/18/14 - 11/11/14, 8/3/15 - 9/26/15, 7/12/16 - 8/29/16, 8/21/17 - 11/8/17, and 8/6/18 - 9/12/18. There was no WR 89-18 releases in WY2019. During these releases, no fish rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. The remaining amount in the AMA is 351 acre-feet. All of the Fish Passage Supplementation Account (FPSA) has been used as explained in previous reports.

**Table 1:** Summary of the surcharge water accounting and use of Project Yield as of the day after the end of the last spill event and full surcharge (5/27/11).

<b>Accounts*</b>	<b>Allocation</b>	<b>Amount Used**</b>	<b>Amount Remaining</b>
<b>Units:</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>
<b>Fish Passage Supplementation</b>	3,200	3,307	-107
<b>Adaptive Management</b>	500	149	351
<b>Fish Rearing***</b>	5,484	5,484	0
<b>Project Yield</b>		19,050	
<b>Total:</b>	9,184	27,990	244
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 10/31/19.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

**Reporting / Outreach / Training:**

**Reporting:** Staff continues to work on the Annual Monitoring Reports (the USBR report) and the Annual Monitoring Summaries (the COMB report) as well as any other BiOp compliance measure as requested by USBR.

**Outreach and Training:** Outreach continues with Quiota Creek and Salsipuedes Creek watershed landowners, interested parties within the Santa Ynez Valley, and the County on a variety of fisheries related issues.

**Consultant Activity Summary:**

**HDR Fisheries Design Center** (Mike Garelo) – Design and reporting work for the Quiota Creek Crossing 8 Project.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	November 18, 2019
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

**SUBJECT:**     **Progress Report on the Lake Cachuma Oak Tree Restoration Program**

**RECOMMENDATION:**

For Board information only.

**SUMMARY:**

***Maintenance***

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2019 to the present (1/1/19 – 11/18/19, Table 1). Labor and expenses for the entire fiscal year (July 2018 - June 2019) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16. The 2018 Annual Inventory and Fiscal Year 2018-19 Financial Report has been reviewed by the Lake Cachuma Oak Tree Committee on 11/1/19 with suggested recommendations for the upcoming fiscal year forthcoming. A Committee meeting has been scheduled 12/13/19 to further review the annual inventory, financials, and recommendations for the year.

**Table 1: Cachuma Oak Tree Program completed tasks since January, 2019.**

	Jan 2019 <sup>1</sup>	Feb 2019 <sup>1</sup>	Mar 2019 <sup>2</sup>	April 2019	May 2019	June 2019	July 2019	Aug 2019	Sept 2019	Oct 2019	Nov 2019
<b>Year 10 Oaks (2018-2019)</b>	Planted			Irrigated Weeded		Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Weeded	
<b>Year 9 Oaks (2016-2017)</b>				Weeded Deer Cages	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Weeded	Irrigated Weeded	Deer Cages
<b>Year 8 Oaks (2015-2016)</b>				Weeded Deer Cages	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Mulched
<b>Year 7 Oaks (2014-2015)</b>					Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Mulched Weeded	Deer Cages
<b>Year 6 Oaks (2010-2011)</b>						Mowed		Deer Cages	Mulched		Deer Cages
<b>Year 5 Oaks (2009-2010)</b>											
<b>Year 4 Oaks (2008-2009)</b>					Deer Cages						
<b>Year 3 Oaks (2007-2008)</b>					Deer Cages						
<b>Year 2 Oaks (2006-2007)</b>											
<b>Year 1 Oaks (2005-2006)</b>											

<sup>1</sup> Oak tree inventory (Year 1-9).

<sup>2</sup> Oak tree inventory (Year 10).

This past month crews have focused on the Year 8 trees at the Santa Barbara County Park at Lake Cachuma and at Bradbury Dam. With the large water tanker truck still in the shop, one crew has been using the small water truck/trailer to irrigate while another crew has been busy mulching trees. The primary mulching effort is occurring at the Long Pool Flat Year 8 trees at Bradbury Dam.

Fisheries Division staff has been removing metal cages from trees that have outgrown their cages and stockpiling them at Bradbury Dam for future planting efforts. The wooden stakes that are holding up the metal cages are also being stockpiled for reuse. When crews come across fallen or leaning wooden stakes on trees that still need cage protection, posts are being replaced or re-pounded into the ground.

Watering the Year 7 through Year 10 trees will continue through the fall (and possibly winter) until several inches of rain fall within the Santa Ynez Valley.

**LIST OF EXHIBITS:**

N/A

**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**METERED USE REPORT FOR OCTOBER 2019**

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
<b>CARPINTERIA WATER DISTRICT</b>			<b>GOLETA WATER DISTRICT</b>		
Boundary Meter - East		370.33	18+62	G. WEST	153.55
Boundary Meter - West		(0.03)	78+00	Corona Del Mar FILTER Plant	841.67
			122+20	STOW RANCH	0.00
				Raytheon (SWP) (Warren Act Contract)	0.00
				Morehart (SWP) (Warren Act Contract)	0.00
				SWP CREDIT (Warren Act Contract)	0.00
			<b>TOTAL</b>		<b>995.22</b>
			<b>MONTECITO WATER DISTRICT</b>		
			260+79	BARKER PASS	69.34
			386+65	MWD YARD	160.66
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	14.77
			510+95	MWD PUMP (SWD)	15.20
			510+95	ORTEGA CONTROL	16.81
			526+43	ASEGRA RD	0.59
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	2.33
				SWP CREDIT (Warren Act Contract)	0.00
			<b>TOTAL</b>		<b>279.71</b>
			<b>CITY OF SANTA BARBARA</b>		
			CATER	INFLOW	1395.51
			Gibraltar	PENSTOCK	(580.23)
			CATER	SO. FLOW	(812.19)
			Sheffield	SHEF.LIFT	176.52
				SWP (Warren Act)	0.00
				La Cumbre Mutual SWP (Warren Act)	(68.65)
			<b>TOTAL</b>		<b>110.96</b>
			<b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b>		
			COUNTY PARK, ETC		1.80
			<b>TOTAL</b>		<b>1.80</b>
			<b>BREAKDOWN OF DELIVERIES BY TYPE:</b>		
			STATE WATER DELIVERED TO LAKE		0.00
			STATE WATER TO SOUTH COAST (including from storage)		(68.65)
			<b>METERED DIVERSION</b>		
					<b>1,757.99</b>
SWP CREDIT (Warren Act Contract) 0.00					
<b>TOTAL</b>		<b>370.30</b>			
Note: Meter reads were taken on: 10/31/2019					

**WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF OCTOBER 2019 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

<b>CACHUMA PROJECT</b>		
<b>WATER PRODUCTION:</b>	<b>MONTH</b>	<b>WYTD</b>
Cachuma Lake (Tec. Diversion)	1,664.8	1,664.8
Tecolote Tunnel Infiltration	114.8	114.8
Cachuma Lake (County Park)	1.8	1.8
<b>Subtotal - Water Production</b>	<b>1,781.4</b>	<b>1,781.4</b>
<b>WATER DELIVERIES:</b>		
State Water Diversion	68.7	68.7
Cachuma Diversion	1,758.0	1,758.0
Storage gain/(loss)	(53.3)	(53.3)
<b>Subtotal - Water Deliveries</b>	<b>1,773.4</b>	<b>1,773.4</b>
<b>Total Water Production</b>	<b>1,781.4</b>	<b>1,781.4</b>
<b>Total Water Deliveries</b>	<b>1,773.4</b>	<b>1,773.4</b>
<b>Difference = Apparent Water Loss</b>	<b>8.1</b>	<b>8.1</b>
% Apparent Water Loss	0.45%	0.45%

**SCC APPARENT WATER LOSS ALLOCATION (AWL) <sup>(4)</sup>**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>TOTAL</b>
<b>CURRENT MONTH CHARGE / (ADJUSTMENT) <sup>(3)</sup></b>					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
<b>Total Current Month</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)</b>					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
<b>Total AWL Charged (WYTD) <sup>(3)</sup></b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total AWL Not Charged (WYTD) <sup>(3)</sup></b>					<b>8.1</b>
<b>Total AWL Incurred (WYTD)</b>					<b>8.1</b>

**CACHUMA PROJECT WATER CHARGE**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRID #1</b>	<b>TOTAL</b>
<b>CURRENT MONTH</b>						
Water Usage						
M&I	746.4	111.0	252.3	166.1	1.8	1,277.6
Agricultural	248.8	0.0	27.4	204.2	N/A	480.4
<b>Subtotal Project Water Use</b>	<b>995.2</b>	<b>111.0</b>	<b>279.7</b>	<b>370.3</b>	<b>1.8</b>	<b>1,758.0</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	59.4	112.7	29.3	18.3	3.6	223.2
<b>Total Project Water Charge</b>	<b>1,054.6</b>	<b>223.7</b>	<b>309.0</b>	<b>388.6</b>	<b>5.4</b>	<b>1,981.2</b>
<b>WATER YEAR-TO-DATE</b>						
Water Usage						
M&I	746.4	111.0	252.3	166.1	1.8	1,277.6
Agricultural	248.8	0.0	27.4	204.2	N/A	480.4
<b>Subtotal Project Water Use</b>	<b>995.2</b>	<b>111.0</b>	<b>279.7</b>	<b>370.3</b>	<b>1.8</b>	<b>1,758.0</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	59.4	112.7	29.3	18.3	3.6	223.2
<b>Total Project Water Charge (*)</b>	<b>1,054.6</b>	<b>223.7</b>	<b>309.0</b>	<b>388.6</b>	<b>5.4</b>	<b>1,981.2</b>

(\*) Project Water Charge is applied first to Carryover Water balance and then to Current Year Water Allocation



**WATER YEAR 18-19 CACHUMA PROJECT ALLOCATION**  
**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**WATER PRODUCTION AND WATER USE REPORT**  
**FOR THE MONTH OF OCTOBER 2019 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

**CACHUMA PROJECT WATER BALANCE**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRID #1</b>	<b>TOTAL</b>
<b>Project Water Carryover - 10/1/2019</b>	7,940.5	14,187.8	3,816.2	2,475.7	452.8	28,873.0
Transfers/Adjustment	0.0	0.0	0.0	0.0	0.0	0.0
<b>(-) Project Water Charge (WYTD)</b>	<b>1,054.6</b>	<b>223.7</b>	<b>309.0</b>	<b>388.6</b>	<b>5.4</b>	<b>1,981.2</b>
<b>Balance Carryover Water</b>	<b>6,885.9</b>	<b>13,964.1</b>	<b>3,507.2</b>	<b>2,087.1</b>	<b>447.4</b>	<b>26,891.8</b>
<b>Current Year Allocation <sup>(5)</sup></b>	<b>9,322.0</b>	<b>8,277.0</b>	<b>2,651.0</b>	<b>2,813.0</b>	<b>2,651.0</b>	<b>25,714.0</b>
<b>(-) Balance of Project Water Charge (WYTD)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Net Allocation Available Before Adjustments</b>	<b>9,322.0</b>	<b>8,277.0</b>	<b>2,651.0</b>	<b>2,813.0</b>	<b>2,651.0</b>	<b>25,714.0</b>
<b><u>Adjustments to Net Allocation (WYTD)</u></b>						
Carryover Balances Spilled	0.0	0.0	0.0	0.0	0.0	0.0
Surplus	0.0	0.0	0.0	0.0	0.0	0.0
State Water Exchange <sup>(6)</sup>	45.0	30.0	30.0	20.0	(125.0)	0.0
Transfers/Adjustment - SB/La Cumbre <sup>(7)</sup>	0.0	(30.0)	0.0	0.0	0.0	(30.0)
Transfers/Adjustment - Bishop Ranch	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - Juncal Transfer	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - GWD/SB Overlap	0.0	0.0	0.0	0.0	0.0	0.0
<b>Balance Current Year Allocation</b>	<b>9,367.0</b>	<b>8,277.0</b>	<b>2,681.0</b>	<b>2,833.0</b>	<b>2,526.0</b>	<b>25,684.0</b>
<b>Total Cachuma Project Water Available</b>	<b>16,252.9</b>	<b>22,241.1</b>	<b>6,188.2</b>	<b>4,920.1</b>	<b>2,973.4</b>	<b>52,575.8</b>

**Footnotes**

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only.
- (3) Based on correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted-for water loss based on lake conditions
- (4) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (5) Per USBR, 100% allocation to Member Agencies, effective 10/1/19.
- (6) Per SWP Exchange Agrmt GWD received 45 AF; City of SB received 30 AF; MWD received 30 AF and CVWD received 20 AF from ID#1 in September 2019.
- (7) Transfer per Santa Ynez Exchange Agreement with City of SB and La Cumbre Mutual Water Agency (30AF) in October 2019.
- (8) Memo only - State Water Deliveries to Lake Cachuma for October 2019 was zero.

**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**WATER STORAGE REPORT**

MONTH: **OCTOBER 2019**

**GLEN ANNIE RESERVOIR <sup>(1)</sup>**

Capacity at 385' elevation:	335	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	<b>333.0</b>	Feet
Water in Storage	21.04	AF

**LAURO RESERVOIR**

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	<b>542.6</b>	Feet
Water in Storage	385.15	AF

**ORTEGA RESERVOIR**

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	<b>448.3</b>	Feet
Water in Storage	23.68	AF

**CARPINTERIA RESERVOIR**

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	<b>370.3</b>	Feet
Water in Storage	13.85	AF

**TOTAL STORAGE IN RESERVOIRS <sup>(1)</sup>**

Change in Storage	422.68	AF
	(70.62)	AF

**CACHUMA RESERVOIR**

Capacity at 750' elevation:	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF
Stage of Reservoir Elevation	<b>734.43</b>	Feet
Water in Storage	<b>141,461</b>	AF
Surface Area	<b>2,470</b>	
Evaporation	<b>945.8</b>	AF
Inflow	<b>-6.4</b>	AF
Downstream Release WR8918	<b>0.0</b>	AF
Fish Release (Hilton Creek)	<b>160.6</b>	AF
Outlet	<b>234.6</b>	AF
Spill/Seismic Release	<b>0</b>	AF
State Water Project Water	<b>0</b>	AF
Change in Storage	<b>-3,014</b>	AF
Tecolote Diversion	<b>1,664.8</b>	AF

**Rainfall:    Month:    0.00                      Season:    0.01                      Percent of Normal:    1%**

(1) The Glen Annie Reservoir is currently offline and is excluded from the Total Storage in Reservoirs amount.



**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #175R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Goleta Water District**  
**Update by COMB 10/31/2019**

Month	CARRYOVER WATER		CURRENT YEAR ALLOCATION										
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Allocation			Allocation				
			M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
Oct	7,940.5	9,322.0	746.4	248.8	995.2	59.4	995.2	1,054.6	783.9	270.6	-	-	-
Nov			-	-	-	-	-	-	-	-	-	-	-
Dec			-	-	-	-	-	-	-	-	-	-	-
Jan			-	-	-	-	-	-	-	-	-	-	-
Feb			-	-	-	-	-	-	-	-	-	-	-
Mar			-	-	-	-	-	-	-	-	-	-	-
Apr			-	-	-	-	-	-	-	-	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-
Total	7,940.5	9,322.0	746.4	248.8	995.2	59.4	995.2	1,054.6	783.9	270.6	-	-	-

Month	CONVERSIONS (M&I AND AG SPLIT)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	7,940.5	5,021.4	2,919.1	6,732.0	2,590.0	9,322.0
Nov						
Dec						
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	6,885.9	4,237.5	2,648.5	6,756.1	2,610.9	9,367.0
Nov						
Dec						
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **16,252.9**

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **City of Santa Barbara**  
 Update by COMB 10/31/2019

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	14,187.8	8,277.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	14,187.8	8,277.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	-----	Total
111.0	-	111.0	112.7	111.0	223.7	223.7	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
111.0	-	111.0	112.7	111.0	223.7	223.7	-	-

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Month  
 Oct  
 Nov  
 Dec  
 Jan  
 Feb  
 Mar  
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 May  
 Jun  
 Jul  
 Aug  
 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
Allocation			Allocation		
Total	M & I	-----	M & I	-----	Total
Begin Bal	14,187.8		8,277.0		8,277.0
LCMWD Trsfr (-30AF) + ID#1 Exch (+30AF)			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-

Month  
 Oct  
 Nov  
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 May  
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 Jul  
 Aug  
 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
Allocation			Allocation		
Total	M & I	-----	M & I	-----	Total
13,964.1	13,964.1	-	8,277.0		8,277.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 22,241.1

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Carpinteria Valley Water District**  
 Update by COMB 10/31/2019

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	2,475.7	2,813.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	2,475.7	2,813.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
166.1	204.2	370.3	18.3	370.3	388.6	174.6	214.0	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
166.1	204.2	370.3	18.3	370.3	388.6	174.6	214.0	-

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Month  
 Oct  
 Nov  
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 Apr  
 May  
 Jun  
 Jul  
 Aug  
 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	2,475.7	1,150.6	1,325.1	1,400.0	1,413.0	2,813.0
ID#1 Exch (+20AF)				10.7	9.3	20.0
Oct				-	-	-
Nov				-	-	-
Dec				-	-	-
Jan				-	-	-
Feb				-	-	-
Mar				-	-	-
Apr				-	-	-
May				-	-	-
Jun				-	-	-
Jul				-	-	-
Aug				-	-	-
Sep				-	-	-

Month  
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 Jul  
 Aug  
 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	2,087.1	976.0	1,111.1	1,410.7	1,422.3	2,833.0
Oct						
Nov						
Dec						
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,920.1

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Montecito Water District**  
 Update by COMB 10/31/2019

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	3,816.2	2,651.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	3,816.2	2,651.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
252.3	27.4	279.7	29.3	279.7	309.0	275.7	33.3	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
252.3	27.4	279.7	29.3	279.7	309.0	275.7	33.3	-

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Month  
 Oct  
 Nov  
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 Jan  
 Feb  
 Mar  
 Apr  
 May  
 Jun  
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 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	3,816.2	3,041.1	775.1	2,244.0	407.0	2,651.0
ID#1 Exch (+30AF)				16.1	13.9	30.0
Oct				-	-	-
Nov				-	-	-
Dec				-	-	-
Jan				-	-	-
Feb				-	-	-
Mar				-	-	-
Apr				-	-	-
May				-	-	-
Jun				-	-	-
Jul				-	-	-
Aug				-	-	-
Sep				-	-	-

Month  
 Oct  
 Nov  
 Dec  
 Jan  
 Feb  
 Mar  
 Apr  
 May  
 Jun  
 Jul  
 Aug  
 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	3,507.2	2,765.4	741.8	2,244.0	420.9	2,681.0
Oct						
Nov						
Dec						
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 6,188.2

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**  
 Update by COMB 10/31/2019

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	452.8	2,651.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	452.8	2,651.0

TOTAL WATER USED				WATER USE CHARGED			WATER USE CHARGED			
Acre-feet				Allocation			Allocation			
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
1.8	-	1.8	3.6	1.8	5.4	1.9	3.5	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1.8	-	1.8	3.6	1.8	5.4	1.9	3.5	-	-	-

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Month  
 Oct  
 Nov  
 Dec  
 Jan  
 Feb  
 Mar  
 Apr  
 May  
 Jun  
 Jul  
 Aug  
 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	452.8	14.8	438.0	935.0	1,716.0	2,651.0
ID#1 Exch (-125AF)				(67.0)	(58.0)	(125.0)
Oct				-	-	-
Nov				-	-	-
Dec				-	-	-
Jan				-	-	-
Feb				-	-	-
Mar				-	-	-
Apr				-	-	-
May				-	-	-
Jun				-	-	-
Jul				-	-	-
Aug				-	-	-
Sep				-	-	-

Month  
 Oct  
 Nov  
 Dec  
 Jan  
 Feb  
 Mar  
 Apr  
 May  
 Jun  
 Jul  
 Aug  
 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
County Parks Usage (AF)	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
1.8	447.4	12.9	434.5	868.0	1,658.0	2,526.0
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,973.4



**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Santa Barbara Co. Water Agency**  
 Update by COMB 10/31/2019

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet				Allocation			Allocation				
			Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	28,873.0	25,714.0	0.0	1,277.6	480.4	1,758.0	223.2	1,758.0	1,981.2	1,459.7	521.5	-	-	-
Nov			-	-	-	-	-	-	-	-	-	-	-	-
Dec			-	-	-	-	-	-	-	-	-	-	-	-
Jan			-	-	-	-	-	-	-	-	-	-	-	-
Feb			-	-	-	-	-	-	-	-	-	-	-	-
Mar			-	-	-	-	-	-	-	-	-	-	-	-
Apr			-	-	-	-	-	-	-	-	-	-	-	-
May			-	-	-	-	-	-	-	-	-	-	-	-
Jun			-	-	-	-	-	-	-	-	-	-	-	-
Jul			-	-	-	-	-	-	-	-	-	-	-	-
Aug			-	-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-	-
Total	28,873.0	25,714.0	0.0	1,277.6	480.4	1,758.0	223.2	1,758.0	1,981.2	1,459.7	521.5	-	-	-

Month	CONVERSIONS (M&I AND AG SPLIT)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	28,873.0	23,415.7	5,457.3	19,588.0	6,126.0	25,714.0
Oct	-	-	-	(16.1)	(13.9)	(30.0)
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	1.8	26,891.8	21,956.0	4,935.8	19,571.9	6,112.1	25,684.0
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **52,575.8**

# CACHUMA DAILY OPERATIONS

Month & Year: November 2019  
 Time of Observations: 0830 Evaporation Pan Factor: 72%

Day	Beginning Storage: 141,461			Surface Area	Rainfall		Evaporation		CCWA Inflow	Releases					Computed Inflow	
	Elevation	Storage	Change		inches	acre-feet	inches	acre-feet		Park Diversion	South Coast	Hilton Creek	WR 89-18	Outlet		Spillway
	ft	acre-feet	acre-feet	acres	inches	acre-feet	inches	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet
1	734.39	141,362	(99)	2,469	-		0.140	20.7	-		44.8	6.6		7.0		(19.9)
2	734.36	141,288	(74)	2,468	-		0.170	25.2	-		39.1	6.6		7.0		3.9
3	734.33	141,214	(74)	2,467	-		0.190	28.1	-		40.3	6.8		8.0		9.2
4	734.29	141,116	(98)	2,466	-		0.170	25.1	-		39.8	6.5		7.0		(19.6)
5	734.26	141,042	(74)	2,465	-		0.120	17.7	-		39.0	6.5		7.0		(3.8)
6	734.21	140,919	(123)	2,463	-		0.130	19.2	-		58.6	6.5		7.0		(31.7)
7	734.18	140,845	(74)	2,462	-		0.060	8.9	-		73.1	6.5		7.0		21.5
8	734.14	140,747	(98)	2,461	-		0.110	16.2	-		47.5	6.5		7.0		(20.8)
9	734.13	140,722	(25)	2,461	-		0.120	17.7	-		46.8	6.5		6.0		52.0
10	734.08	140,574	(148)	2,459	-		0.160	23.6	-		45.7	6.5		7.0		(65.2)
11	734.05	140,525	(49)	2,458	-		0.080	11.8			46.3	6.4		7.0		22.5
12	734.03	140,476	(49)	2,458	-		0.100	14.7			44.5	6.4		7.0		23.6
13	734.00	140,402	(74)	2,457	-		0.120	17.7			44.5	6.4		7.0		1.6
14	733.98	140,353	(49)	2,456	-		0.080	11.8			42.9	6.4		7.0		19.1
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<b>TOTALS</b>		-1108			-	-	1.750	258.6	-	-	-	652.9	91.1	-	98.0	-	(7.4)
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Park Usage  Rain % Yr. Total



**Santa Barbara County Parks Division,  
Cachuma Lake Recreation Area**



**Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: **OCTOBER 2019****

<b>Cachuma Lake Recreation Area Launch Data -- October 2019</b>		
<b>Inspection Data</b>		
Total Vessels entering Park	440	
Total Vessels launched	424	
Total Vessels Quarantined	16	
Returning with Boat Launch Tag	273	64%
New: Removed from Quarantine		
Kayak/Canoe: Inspected, launched	151	36%
4-stroke Engines		
2-strokes, w/CARB star ratings		
2-strokes, NO emissions ratings		
<b>Quarantine Data</b>		
Total Vessels Quarantined	16	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	16	
<b>Quarantine Cause</b>		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	3	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	16	
<b>Demographic Data</b>		
Quarantined from infected county	3	
Quarantined from SB County	12	
Quarantined from uninfected co	1	

Boat Launch Tags: Boats with Cachuma Lake Boat Launch Tags attach boat to trailer.

No mussel species have been located on any vessel entering Cachuma Lake as of the last day of this month.

\* These conditions are no longer being tracked.

**EARLY DETECTION MONITORING PROGRAM SUMMARY**

**Summary:** No Dreissenid mussels were detected  
 Inspection Site: Cachuma Lake, Santa Barbara County, California  
 Inspection Date and Time: 2019.10.30; 10:00 a.m. to 12:00 p.m. PDT  
 Method: 6 PVC/Cement Sampling Stations; 134 linear feet of line  
 Surveyors: SBCO Parks Employees  
 Lake elevation: Max feet: 753.00, current 734.55; Max acre-feet: 193,305, current: 141,756;  
 Current capacity: 73.3%