

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

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**Monday, August 27, 2018**

**2:00 PM**

**AGENDA**

- 1. CALL TO ORDER, ROLL CALL**
- 2. INTRODUCTION OF NEW STAFF**
- 3. 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.*)
- 4. 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 July 23, 2018 Regular Board Meeting
  - b. Investment of Funds
    - Financial Reports
    - Investment Reports
  - c. Review of Paid Claims
- 5. VERBAL REPORTS FROM BOARD COMMITTEES**  
Receive verbal information regarding the following committee meetings:
  - Lake Cachuma Oak Tree Committee Meeting – August 1, 2018
  - Public Outreach Committee Meeting – August 9, 2018
- 6. CHANGE TO BOARD COMMITTEE APPOINTMENTS FOR FISCAL YEAR 2018-19**  
Action: President of the Board consider a change to Committee appointments for FY 2018-19
  1. Administrative Committee
- 7. FINANCIAL REVIEW – 4TH QUARTER FISCAL YEAR 2017-18**  
Receive information regarding the Operating Budget for the 4<sup>th</sup> Quarter - Fiscal Year 2017-18
- 8. PRESENTATION OF NEW WEBSITE PLATFORM**  
Receive information regarding a new website platform

**9. GENERAL MANAGER REPORT**

Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:

- Meetings
- Administration
- Operations/Engineering Activities
- Fisheries Division Activities

**10. WATER RESOURCES ENGINEER REPORT**

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

- ESRI Conference Presentation
- Forecasted Lake Elevations
- Climate Conditions
- Grant Funding Activities
- Infrastructure Improvement Project Status

**11. OPERATIONS DIVISION REPORT**

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

- Lake Cachuma Operations
- Operation and Maintenance Activities

**12. UPDATE ON FISH PASSAGE IMPROVEMENT PROJECT – QUIOTA CREEK CROSSING 5**

Receive information regarding the status of the Fish Passage Improvement Project

**13. FISHERIES DIVISION REPORT**

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

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

**14. 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

**15. 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

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

- 17. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION**
  - a. [Government Code Section 54956.9(d)(4)]  
Name of matter: Protest of Member Agency re: Payment of Quarterly Assessments
- 18. RECONVENE INTO OPEN SESSION**

[Government Code Section 54957.7]  
Disclosure of actions taken in closed session, as applicable  
[Government Code Section 54957.1]
- 19. MEETING SCHEDULE**
  - **September 24, 2018 at 2:00 PM, COMB Office**
  - **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**
- 20. 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.

**MINUTES OF A REGULAR MEETING**  
**of the**  
**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**held at**  
3301 Laurel Canyon Road, Santa Barbara, CA  
**Monday, July 23, 2018**

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**1. Call to Order, Roll Call**

The meeting was called to order at 2:00 PM by President Morgan who chaired the meeting. Those in attendance were:

**Directors Present:**

W. Douglas Morgan, Montecito Water District  
Kristen Sneddon, City of Santa Barbara  
Lauren Hanson, Goleta Water District

**Staff Present:**

Janet Gingras, General Manager	Tim Robinson, Fisheries Division Manager
Edward Lyons, Administrative Manager/CFO	Adriane Passani, Administrative Assistant III
David Flora, Water Service Worker III	Dorothy Turner, Administrative Assistant
William Carter, General Counsel	

**Others Present:**

Fray Crease, SB County Water Agency	Philip Walker, Santa Barbara resident
Robert McDonald, Carpinteria Water District	Mark Preston, Santa Ynez WE Watch

**2. Public Comment**

Mr. Walker shared with the Board information on changing capacity levels of various neighboring reservoirs, receipt of water allotments and the resulting impacts.

**3. Consent Agenda**

- a. Minutes of June 11, 2018 Special Board Meeting
- b. Minutes of June 25, 2018 Regular Board Meeting
- c. Investment of Funds
  - Financial Reports
  - Investment Reports
- d. Review of Paid Claims

Ms. Gingras presented the Consent Agenda as provided in the board packet. Director Sneddon made a motion to approve the Consent Agenda as presented; seconded by Director Hanson, the motion passed by 5/0/2/0 vote:

**Ayes:** Sneddon, Hanson, Morgan

**Nayes:**

**Absent:** Holcombe, Walsh

**Abstain:**

**4. Verbal Reports From Board Committees**

- *Administrative Committee Meeting – July 18, 2018:* Director Morgan presented the items and noted that the items will be discussed separately within staff reports.

**5. Board Committee Appointments for Fiscal Year 2018-2019**

Ms. Gingras presented the staff memorandum as provided in the board packet. President Morgan stated that the standing committees will remain the same for fiscal year 2018-2019 as they were for fiscal year 2017-2018. Director Hanson commented that it is the belief of the Goleta Water District that Goleta should be represented on either the Operations Committee or the Administrative Committee. President Morgan noted the comment and confirmed the following appointments of chair, member and alternate to each standing committee of the Board:

<b>COMMITTEE NAME</b>	<b>COMMITTEE CHAIR</b>	<b>COMMITTEE MEMBER</b>	<b>ALTERNATE MEMBER</b>
<b>ADMINISTRATIVE (FINANCE, PERSONNEL, LEGAL)</b>	Director Morgan	Director Sneddon	Director Holcombe
<b>OPERATIONS</b>	Director Sneddon	Director Morgan	Director Holcombe
<b>FISHERIES</b>	Director Holcombe	Director Hanson	Director Morgan
<b>LAKE CACHUMA OAK TREE</b>	Director Sneddon	Director Morgan	Director Holcombe
<b>PUBLIC OUTREACH</b>	Director Hanson	Director Holcombe	Director Morgan

## 6. **Proposed Annual Resolutions**

- Resolution No. 664 Adopting Annual Statement of Investment Policy
- Resolution No. 665 Authorizing Investment of Monies in the Local Agency Investment Fund
- Resolution No. 666 Establishing a Supplemental Account Agreement for Telephone Transfers
- Resolution No. 667 Establishing a Check Signing Policy for General Fund Account Payment of Claims
- Resolution No. 668 Authorizing Signatories for General Fund Account at American Riviera Bank
- Resolution No. 669 Authorizing Signatories for Revolving Fund Account at American Riviera Bank
- Resolution No. 670 Establishing a Check Signing Policy for Cachuma Project Trust Fund and Master Contract Renewal Fund Accounts for Payment of Claims
- Resolution No. 671 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at American Riviera Bank
- Resolution No. 672 Establishing a Time and Place for Board Meetings

Ms. Gingras presented Resolutions No. 664 through No. 672, as presented in the Board packet. Director Hanson made a motion to adopt Resolutions No. 664 through No. 672 by roll call, seconded by Director; the motion passed by 5/0/2/0 vote:

**Ayes:** Sneddon, Hanson, Morgan

**Nayes:**

**Absent:** Holcombe, Walsh

**Abstain:**

## 7. **Selection of Auditor for Independent Financial Auditing Services - Fiscal Years 2018-2020**

As presented in the Board packet, Mr. Lyons summarized the Request for Proposal (RFP) process that was undertaken to secure cost proposals for a three year annual Comprehensive Annual Financial Report (CAFR) audit. Two proposals were received. Mr. Lyons indicated that Bartlett, Pringle & Wolf LLP submitted the lowest cost proposal which was significantly lower than the second proposal received. Accordingly, Director Sneddon made a motion that Bartlett, Pringle & Wolf LLP be selected to provide independent auditing services for fiscal years 2018-2020; motion seconded by Director Hanson; motion passed by 5/0/2/0 vote.

**Ayes:** Sneddon, Hanson, Morgan

**Nayes:**

**Absent:** Holcombe, Walsh

**Abstain:**

## 8. **General Manager Report**

- Meetings
- Administration
- Operations / Engineer Activities
- Fisheries Division Activities

Ms. Gingras highlighted topics within her report, including that staff met with Turenchalk Networking Services, COMB's information technology consultants; staff attended a PG&E Community Wildfire Safety Program, hosted by Santa Barbara County Office of Emergency Services. Presented within the report were contracts executed by the General Manager pursuant to COMB's procurement policy; the Arroyo Paredon bridge project; and Bradbury Dam outlet works valve testing. Ms. Gingras fielded questions from the board, in particular questions regarding the valve testing, downstream water release and impacts on Hilton Creek.

## 9. **Water Resources Engineer Report**

- Climate Conditions
- Lake Cachuma Evaporation Update
- Grant Funding Activities
- Infrastructure Improvement Planning

In Mr. Degner's absence, Ms. Gingras presented the monthly Water Resources Engineer Report as provided in the board packet highlighting climate conditions; the Lake Cachuma evaporation update; grant funding activities; and the status of infrastructure improvement projects. Ms. Gingras fielded questions from the Board, in particular, concerns about the Central Coast Water Authority (CCWA) plans for shutdown, followed by a Board suggestion that CCWA be asked to shorten or defer any planned shutdown for this year.

## 10. **Operations Division Report**

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Flora presented the report on behalf of Operations Division Manager, Mr. Stewart, and gave a detailed summary of the Divisions tasks and objectives for the month, highlighting the monitoring of both the conduit passing through the recent Holiday fire burn area; and the work on the bridge at Arroyo Paredon. He noted that flows were higher due to the recent heat waves. Mr. Flora fielded questions from the Board.

## 11. **Fisheries Division Report**

- LSYR Steelhead Monitoring Elements
- Tributary Project Updates
- Surcharge Water Accounting

- Reporting/Outreach/Training

Mr. Robinson presented topics within his report as provided in the board packet, noting that he and Mr. Degner attended the Environmental Systems Research Institute (ESRI) conference where Mr. Degner presented a session. He also noted that Quiota Creek Crossing No. 5 work had begun as of today's date. Mr. Robinson fielded questions from the Board, including a request that Mr. Degner prepare a summary of his presentation at the ESRI conference to present to the Board at the next meeting.

**12. Progress Report on Lake Cachuma Oak Tree Program**

- Maintenance and Monitoring

Mr. Robinson presented topics within his report as provided in the board packet highlighting staff's ongoing mitigation efforts for the Oak Tree Program. There were no questions from the Board, other than noting that an Oak Tree Committee meeting should be scheduled for early August.

**13. Monthly Cachuma Project Reports**

- Cachuma Water Reports
- Cachuma Reservoir Current Conditions
- Lake Cachuma Quagga Survey

Ms. Gingras reviewed the monthly water reports as incorporated in the board packet. There were no questions from the Board.

**14. Directors' Request for Agenda Items for Future Meeting**

- There were no agenda item requests.

**15. [CLOSED SESSION]: Conference with Legal Counsel: Existing and Potential Litigation**

The Board went into closed session at 3:30 PM.

- a. [Government Code Section 54956.9(d)(4)]  
Name of matter: Protest of Member Agency re: Payment of Quarterly Assessments

**16. [CLOSED SESSION]: Conference with Labor Negotiators**

- a. [Government Code Section 54957.6(a)]  
Agency designated representatives: Board President  
Unrepresented Employee: General Manager



**17. RECONVENE INTO OPEN SESSION**

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

The Board came out of closed session at 5:11 PM.

Item #15a – There was no reportable action.

Item #16a – Board gave direction to the President regarding General Manager, Janet Gingras' compensation.

**18. Modification of General Manager's Compensation**

The Board voted to approve a three percent increase in compensation for the General Manager, Janet Gingras, retroactive to her anniversary date of April 1<sup>st</sup>.

**Ayes:** Sneddon, Hanson, Morgan

**Nayes:**

**Absent:** Holcombe, Walsh

**Abstain:**

**19. Meeting Schedule**

- **August 27, 2018 at 2:00 PM, COMB Office**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**20. COMB Adjournment**

There being no further business, the meeting adjourned at 5:20 PM.

Respectfully submitted,

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

**APPROVED:**

\_\_\_\_\_  
Doug Morgan, President of the Board

	<i>Approved</i>
✓	<i>Unapproved</i>

Cachuma Operation & Maintenance Board

Statement of Net Position

As of July 31, 2018

UNAUDITED FINANCIALS

ASSETS

Current Assets

Checking/Savings

Trust Funds

1210 · Warren Act Trust Fund 909,054.72

1220 · Renewal Fund 10,215.61

Total Trust Funds 919,270.33

1050 · General Fund 398,244.44

1100 · Revolving Fund 146,208.05

Total Checking/Savings 1,463,722.82

Accounts Receivable

1320 · Quarterly Assessments Receivable 1,380,060.00

Total Accounts Receivable 1,380,060.00

Other Current Assets

1010 · Petty Cash 500.00

1200 · LAIF 1,793,774.22

1303 · Bradbury SOD Act Assmnts Receivable 190,101.00

1304 · Lauro Dam SOD Assesmnt Receivable 29,472.92

1400 · Prepaid Insurance 19,432.72

Total Other Current Assets 2,033,280.86

Total Current Assets 4,877,063.68

Fixed Assets

1500 · Vehicles 411,918.76

1505 · Office Furniture & Equipment 443,923.41

1510 · Mobile Offices 97,803.34

1515 · Field Equipment 563,100.87

1525 · Paving 38,351.00

1550 · Accumulated Depreciation -1,407,786.02

Total Fixed Assets 147,311.36

Other Assets

1910 · LT Bradbury SOD Act Assess Receivable 4,875,720.07

1920 · LT Lauro SOD Act Assess Receivable 865,427.91

1922 · Deferred Outflow of Resources (GASB 68) 422,161.00

Total Other Assets 6,163,308.98

TOTAL ASSETS 11,187,684.02

**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of July 31, 2018  
**UNAUDITED FINANCIALS**

**LIABILITIES & NET POSITION**

**Liabilities**

**Current Liabilities**

**Accounts Payable**

2200 · Accounts Payable 162,061.19

**Total Accounts Payable** 162,061.19

**Other Current Liabilities**

2550 · Vacation/Sick 143,385.84

2561 · Bradbury Dam SOD Act 190,111.66

2563 · Laura Dam SOD Act 29,472.92

2565 · Accrued Interest SOD Act 66,595.00

2567 · Loan Payable Current EPFP 402,389.08

2590 · Deferred Revenue 919,270.33

**Total Other Current Liabilities** 1,751,224.83

**Total Current Liabilities** 1,913,286.02

**Long Term Liabilities**

2602 · LT SOD Act Liability-Bradbury 4,875,710.07

2603 · LT SOD Act Liability - Lauro 865,427.91

2604 · OPEB LT Liability 1,054,948.00

2605 · Loan Payable Principal - EPFP 902,997.33

2610 · Net Pension Liability (GASB 68) 1,527,915.00

2611 · Deferred Inflow of Resources (GASB 68) 149,427.00

**Total Long Term Liabilities** 9,376,425.31

**Total Liabilities** 11,289,711.33

**Net Position**

3000 · Opening Balance Net Position -1,356,592.05

3901 · Retained Net Assets 363,840.09

**Net Position** 890,724.65

**Total Net Position** -102,027.31

**TOTAL LIABILITIES & NET POSITION** 11,187,684.02

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul 18	Budget	\$ Over Budget	% of Budget	Jul 18	Budget	\$ Over Budget	% of Budget	Jul 18	Budget	\$ Over Budget	% of Budget
<b>Revenue</b>												
<b>3000 REVENUE</b>												
3039 · Grant-QC Crossing #9	0.00	993,121.00	-993,121.00	0.0%	0.00				0.00	993,121.00	-993,121.00	0.0%
3001 · O&M Budget (Qtrly Assessments)	236,627.00	946,511.00	-709,884.00	25.0%	891,449.00	3,565,791.00	-2,674,342.00	25.0%	1,128,076.00	4,512,302.00	-3,384,226.00	25.0%
3006 · Warren Act	0.00	539,521.00	-539,521.00	0.0%	0.00				0.00	539,521.00	-539,521.00	0.0%
3010 · Interest Income	0.00				5,869.17				5,869.17	0.00	5,869.17	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%
3037 · Grant-QC Crossing #5	0.00	893,287.00	-893,287.00	0.0%	0.00				0.00	893,287.00	-893,287.00	0.0%
<b>Total 3000 REVENUE</b>	<b>236,627.00</b>	<b>3,462,440.00</b>	<b>-3,225,813.00</b>	<b>6.83%</b>	<b>897,318.17</b>	<b>3,565,791.00</b>	<b>-2,668,472.83</b>	<b>25.17%</b>	<b>1,133,945.17</b>	<b>7,028,231.00</b>	<b>-5,894,285.83</b>	<b>16.13%</b>
<b>Total Revenue</b>	<b>236,627.00</b>	<b>3,462,440.00</b>	<b>-3,225,813.00</b>	<b>6.83%</b>	<b>897,318.17</b>	<b>3,565,791.00</b>	<b>-2,668,472.83</b>	<b>25.17%</b>	<b>1,133,945.17</b>	<b>7,028,231.00</b>	<b>-5,894,285.83</b>	<b>16.13%</b>
<b>Gross Profit</b>	<b>236,627.00</b>	<b>3,462,440.00</b>	<b>-3,225,813.00</b>	<b>6.83%</b>	<b>897,318.17</b>	<b>3,565,791.00</b>	<b>-2,668,472.83</b>	<b>25.17%</b>	<b>1,133,945.17</b>	<b>7,028,231.00</b>	<b>-5,894,285.83</b>	<b>16.13%</b>
<b>Expense</b>												
<b>3100 · LABOR - OPERATIONS</b>	0.00				55,193.35	813,247.00	-758,053.65	6.79%	55,193.35	813,247.00	-758,053.65	6.79%
<b>3200 VEH &amp; EQUIPMENT</b>												
3201 · Vehicle/Equip Mtce	0.00				6,705.71	30,000.00	-23,294.29	22.35%	6,705.71	30,000.00	-23,294.29	22.35%
3202 · Fixed Capital	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3203 · Equipment Rental	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
3204 · Miscellaneous	0.00				119.91	5,000.00	-4,880.09	2.4%	119.91	5,000.00	-4,880.09	2.4%
<b>Total 3200 VEH &amp; EQUIPMENT</b>	<b>0.00</b>				<b>6,825.62</b>	<b>70,000.00</b>	<b>-63,174.38</b>	<b>9.75%</b>	<b>6,825.62</b>	<b>70,000.00</b>	<b>-63,174.38</b>	<b>9.75%</b>
<b>3300 · CONTRACT LABOR</b>												
3301 · Conduit, Meter, Valve & Misc	0.00				1,862.42	20,000.00	-18,137.58	9.31%	1,862.42	20,000.00	-18,137.58	9.31%
3302 · Buildings & Roads	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
3303 · Reservoirs	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3304 · Engineering, Misc Services	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
<b>Total 3300 · CONTRACT LABOR</b>	<b>0.00</b>				<b>1,862.42</b>	<b>95,000.00</b>	<b>-93,137.58</b>	<b>1.96%</b>	<b>1,862.42</b>	<b>95,000.00</b>	<b>-93,137.58</b>	<b>1.96%</b>
<b>3400 · MATERIALS &amp; SUPPLIES</b>												
3401 · Conduit, Meter, Valve & Misc	0.00				0.00	65,000.00	-65,000.00	0.0%	0.00	65,000.00	-65,000.00	0.0%
3402 · Buildings & Roads	0.00				582.26	8,000.00	-7,417.74	7.28%	582.26	8,000.00	-7,417.74	7.28%
3403 · Reservoirs	0.00				85.74	5,000.00	-4,914.26	1.72%	85.74	5,000.00	-4,914.26	1.72%
<b>Total 3400 · MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>				<b>668.00</b>	<b>78,000.00</b>	<b>-77,332.00</b>	<b>0.86%</b>	<b>668.00</b>	<b>78,000.00</b>	<b>-77,332.00</b>	<b>0.86%</b>
<b>3500 · OTHER EXPENSES</b>												
3501 · Utilities	0.00				391.84	7,000.00	-6,608.16	5.6%	391.84	7,000.00	-6,608.16	5.6%
3502 · Uniforms	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
3503 · Communications	0.00				1,355.12	18,500.00	-17,144.88	7.33%	1,355.12	18,500.00	-17,144.88	7.33%
3504 · USA & Other Services	0.00				82.50	4,000.00	-3,917.50	2.06%	82.50	4,000.00	-3,917.50	2.06%
3505 · Miscellaneous	0.00				646.73	8,000.00	-7,353.27	8.08%	646.73	8,000.00	-7,353.27	8.08%
3506 · Training	0.00				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
<b>Total 3500 · OTHER EXPENSES</b>	<b>0.00</b>				<b>2,476.19</b>	<b>45,500.00</b>	<b>-43,023.81</b>	<b>5.44%</b>	<b>2,476.19</b>	<b>45,500.00</b>	<b>-43,023.81</b>	<b>5.44%</b>
<b>4100 · LABOR - FISHERIES</b>	52,867.22	692,409.00	-639,541.78	7.64%	0.00				52,867.22	692,409.00	-639,541.78	7.64%
<b>4200 · VEHICLES &amp; EQUIP - FISHERIES</b>												
4270 · Vehicle/Equip Mtce	1,832.07	15,000.00	-13,167.93	12.21%	0.00				1,832.07	15,000.00	-13,167.93	12.21%
4280 · Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 · Miscellaneous	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
<b>Total 4200 · VEHICLES &amp; EQUIP - FISHERIES</b>	<b>1,832.07</b>	<b>32,500.00</b>	<b>-30,667.93</b>	<b>5.64%</b>	<b>0.00</b>				<b>1,832.07</b>	<b>32,500.00</b>	<b>-30,667.93</b>	<b>5.64%</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul 18	Budget	\$ Over Budget	% of Budget	Jul 18	Budget	\$ Over Budget	% of Budget	Jul 18	Budget	\$ Over Budget	% of Budget
<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	43.29	7,000.00	-6,956.71	0.62%	0.00				43.29	7,000.00	-6,956.71	0.62%
<b>Total 4300 · MATERIALS/SUPPLIES - FISHERIES</b>	<b>43.29</b>	<b>7,000.00</b>	<b>-6,956.71</b>	<b>0.62%</b>	<b>0.00</b>				<b>43.29</b>	<b>7,000.00</b>	<b>-6,956.71</b>	<b>0.62%</b>
<b>4500 · OTHER EXPENSES - FISHERIES</b>												
4502 · Uniforms	0.00	3,500.00	-3,500.00	0.0%	0.00				0.00	3,500.00	-3,500.00	0.0%
<b>Total 4500 · OTHER EXPENSES - FISHERIES</b>	<b>0.00</b>	<b>3,500.00</b>	<b>-3,500.00</b>	<b>0.0%</b>	<b>0.00</b>				<b>0.00</b>	<b>3,500.00</b>	<b>-3,500.00</b>	<b>0.0%</b>
<b>4999 · GENERAL &amp; ADMINISTRATIVE</b>												
5000 · Director Fees	0.00				487.50	12,000.00	-11,512.50	4.06%	487.50	12,000.00	-11,512.50	4.06%
5001 · Director Mileage	0.00				23.59	1,000.00	-976.41	2.36%	23.59	1,000.00	-976.41	2.36%
5100 · Legal	0.00				0.00	75,000.00	-75,000.00	0.0%	0.00	75,000.00	-75,000.00	0.0%
5101 · Audit	0.00				0.00	22,750.00	-22,750.00	0.0%	0.00	22,750.00	-22,750.00	0.0%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				0.00	50,551.00	-50,551.00	0.0%	0.00	50,551.00	-50,551.00	0.0%
5310 · Postage/Office Exp	0.00				556.28	5,000.00	-4,443.72	11.13%	556.28	5,000.00	-4,443.72	11.13%
5311 · Office Equip/Leases	0.00				451.30	9,200.00	-8,748.70	4.91%	451.30	9,200.00	-8,748.70	4.91%
5312 · Misc Admin Expenses	0.00				950.76	11,500.00	-10,549.24	8.27%	950.76	11,500.00	-10,549.24	8.27%
5313 · Communications	0.00				548.93	8,500.00	-7,951.07	6.46%	548.93	8,500.00	-7,951.07	6.46%
5314 · Utilities	0.00				971.62	9,737.00	-8,765.38	9.98%	971.62	9,737.00	-8,765.38	9.98%
5315 · Membership Dues	0.00				135.85	9,345.00	-9,209.15	1.45%	135.85	9,345.00	-9,209.15	1.45%
5316 · Admin Fixed Assets	0.00				894.38	3,000.00	-2,105.62	29.81%	894.38	3,000.00	-2,105.62	29.81%
5318 · Computer Consultant	0.00				347.43	15,000.00	-14,652.57	2.32%	347.43	15,000.00	-14,652.57	2.32%
5325 · Emp Training/Subscriptions	0.00				0.00	2,000.00	-2,000.00	0.0%	0.00	2,000.00	-2,000.00	0.0%
5330 · Admin Travel/Conferences	0.00				0.00	2,000.00	-2,000.00	0.0%	0.00	2,000.00	-2,000.00	0.0%
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%
5317 · Admin Contract Labor	0.00				4,591.12	4,680.00	-88.88	98.1%	4,591.12	4,680.00	-88.88	98.1%
<b>Total 4999 · GENERAL &amp; ADMINISTRATIVE</b>	<b>0.00</b>				<b>9,958.76</b>	<b>249,763.00</b>	<b>-239,804.24</b>	<b>3.99%</b>	<b>9,958.76</b>	<b>249,763.00</b>	<b>-239,804.24</b>	<b>3.99%</b>
<b>5299 · ADMIN LABOR</b>	<b>0.00</b>				<b>58,850.40</b>	<b>592,881.00</b>	<b>-534,030.60</b>	<b>9.93%</b>	<b>58,850.40</b>	<b>592,881.00</b>	<b>-534,030.60</b>	<b>9.93%</b>
<b>5400 · GENERAL &amp; ADMIN - FISHERIES</b>												
5407 · Legal - FD	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
5410 · Postage / Office Supplies	282.97	4,000.00	-3,717.03	7.07%	0.00				282.97	4,000.00	-3,717.03	7.07%
5411 · Office Equipment / Leases	243.00	5,418.00	-5,175.00	4.49%	0.00				243.00	5,418.00	-5,175.00	4.49%
5412 · Misc. Admin Expense	511.95	7,500.00	-6,988.05	6.83%	0.00				511.95	7,500.00	-6,988.05	6.83%
5413 · Communications	348.57	5,805.00	-5,456.43	6.01%	0.00				348.57	5,805.00	-5,456.43	6.01%
5414 · Utilities	523.20	5,243.00	-4,719.80	9.98%	0.00				523.20	5,243.00	-4,719.80	9.98%
5415 · Membership Dues	73.15	5,955.00	-5,881.85	1.23%	0.00				73.15	5,955.00	-5,881.85	1.23%
5416 · Admin Fixed Assets	481.59	3,000.00	-2,518.41	16.05%	0.00				481.59	3,000.00	-2,518.41	16.05%
5417 · Admin Contract Labor	2,472.15	2,520.00	-47.85	98.1%	0.00				2,472.15	2,520.00	-47.85	98.1%
5418 · Computer Consultant	187.07	7,000.00	-6,812.93	2.67%	0.00				187.07	7,000.00	-6,812.93	2.67%
5425 · Employee Education/Subsription	695.00	2,500.00	-1,805.00	27.8%	0.00				695.00	2,500.00	-1,805.00	27.8%
5426 · Director Fees	262.50	6,500.00	-6,237.50	4.04%	0.00				262.50	6,500.00	-6,237.50	4.04%
5427 · Director Mileage	12.70	500.00	-487.30	2.54%	0.00				12.70	500.00	-487.30	2.54%

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2018 - Jun 2019

	Fisheries				Operations				TOTAL			
	Jul 18	Budget	\$ Over Budget	% of Budget	Jul 18	Budget	\$ Over Budget	% of Budget	Jul 18	Budget	\$ Over Budget	% of Budget
5430 · Travel	1,240.05	2,500.00	-1,259.95	49.6%	0.00				1,240.05	2,500.00	-1,259.95	49.6%
5431 · Public Information	0.00	1,500.00	-1,500.00	0.0%	0.00				0.00	1,500.00	-1,500.00	0.0%
5441 · Audit	0.00	12,250.00	-12,250.00	0.0%	0.00				0.00	12,250.00	-12,250.00	0.0%
5443 · Liab & Property Ins	0.00	24,745.00	-24,745.00	0.0%	0.00				0.00	24,745.00	-24,745.00	0.0%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	<b>7,333.90</b>	<b>116,936.00</b>	<b>-109,602.10</b>	<b>6.27%</b>	<b>0.00</b>				<b>7,333.90</b>	<b>116,936.00</b>	<b>-109,602.10</b>	<b>6.27%</b>
5499 · ADMIN LABOR-FISHERIES	18,063.39	232,099.00	-214,035.61	7.78%	0.00				18,063.39	232,099.00	-214,035.61	7.78%
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				297.73	20,000.00	-19,702.27	1.49%	297.73	20,000.00	-19,702.27	1.49%
6090 · COMB Office Building	0.00				0.00	200,000.00	-200,000.00	0.0%	0.00	200,000.00	-200,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00				0.00	484,400.00	-484,400.00	0.0%	0.00	484,400.00	-484,400.00	0.0%
6096-2 · SCC Str Rehab Thomas DebrisFlow	0.00				4,683.27				4,683.27	0.00	4,683.27	100.0%
6097 · GIS and Mapping	0.00				0.00	10,000.00	-10,000.00	0.0%	0.00	10,000.00	-10,000.00	0.0%
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%
6118 · Repair Lateral 3 Structure	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6120 · Emergency Pumping Fac Project	0.00				4,666.67	230,000.00	-225,333.33	2.03%	4,666.67	230,000.00	-225,333.33	2.03%
6122 · Rehab San Antonio Crk Blow-off	0.00				0.00	60,000.00	-60,000.00	0.0%	0.00	60,000.00	-60,000.00	0.0%
6132 · Sycamore Canyon Slope Stabiliz	0.00				0.00	500,000.00	-500,000.00	0.0%	0.00	500,000.00	-500,000.00	0.0%
6132-1 · SycCynSlopeStab-CO Funds FY201	0.00				0.00	-500,000.00	500,000.00	0.0%	0.00	-500,000.00	500,000.00	0.0%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				0.00	50,000.00	-50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6138 · Cachuma Watershed Mgmt Study	0.00				0.00	417,000.00	-417,000.00	0.0%	0.00	417,000.00	-417,000.00	0.0%
<b>Total 6000 · SPECIAL PROJECTS</b>	<b>0.00</b>				<b>9,647.67</b>	<b>1,616,400.00</b>	<b>-1,606,752.33</b>	<b>0.6%</b>	<b>9,647.67</b>	<b>1,616,400.00</b>	<b>-1,606,752.33</b>	<b>0.6%</b>
<b>6200 · FISHERIES ACTIVITIES</b>												
6201 · FMP Implementation	0.00	45,000.00	-45,000.00	0.0%	0.00				0.00	45,000.00	-45,000.00	0.0%
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	7,813.18	100,000.00	-92,186.82	7.81%	0.00				7,813.18	100,000.00	-92,186.82	7.81%
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	932.59	40,000.00	-39,067.41	2.33%	0.00				932.59	40,000.00	-39,067.41	2.33%
<b>Total 6200 · FISHERIES ACTIVITIES</b>	<b>8,745.77</b>	<b>216,000.00</b>	<b>-207,254.23</b>	<b>4.05%</b>	<b>0.00</b>				<b>8,745.77</b>	<b>216,000.00</b>	<b>-207,254.23</b>	<b>4.05%</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	0.00	30,000.00	-30,000.00	0.0%	0.00				0.00	30,000.00	-30,000.00	0.0%
6316 · Quiota Creek Crossing 5	4,198.46	960,000.00	-955,801.54	0.44%	0.00				4,198.46	960,000.00	-955,801.54	0.44%
6317 · Salsipuedes Fish Ladder Repair	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6318 · Quiota Creek Crossing 9	467.52	1,115,996.00	-1,115,528.48	0.04%	0.00				467.52	1,115,996.00	-1,115,528.48	0.04%
<b>Total 6300 · HABITAT ENHANCEMENT</b>	<b>4,665.98</b>	<b>2,133,996.00</b>	<b>-2,129,330.02</b>	<b>0.22%</b>	<b>0.00</b>				<b>4,665.98</b>	<b>2,133,996.00</b>	<b>-2,129,330.02</b>	<b>0.22%</b>
7007 · INTEREST EXPENSE-EPPF	0.00				4,186.49				4,186.49	0.00	4,186.49	100.0%
<b>Total Expense</b>	<b>93,551.62</b>	<b>3,462,440.00</b>	<b>-3,368,888.38</b>	<b>2.7%</b>	<b>149,668.90</b>	<b>3,565,791.00</b>	<b>-3,416,122.10</b>	<b>4.2%</b>	<b>243,220.52</b>	<b>7,028,231.00</b>	<b>-6,785,010.48</b>	<b>3.46%</b>
<b>Net Surplus/(Deficit)</b>	<b>143,075.38</b>	<b>0.00</b>	<b>143,075.38</b>	<b>100.0%</b>	<b>747,649.27</b>	<b>0.00</b>	<b>747,649.27</b>	<b>100.0%</b>	<b>890,724.65</b>	<b>0.00</b>	<b>890,724.65</b>	<b>100.0%</b>

# AMERICAN RIVIERA BANK

P.O. Box 329, Santa Barbara, California 93102  
805-965-5942 www.americanrivierabank.com



CACHUMA OPERATION AND MAINTENANCE BOARD  
WARREN ACCT TRUST FUND  
3301 LAUREL CANYON RD  
SANTA BARBARA CA 93105-2017

Page 1

ACCOUNT ANALYSIS CHECKING

Account No 705011543  
Statement Date 07/31/2018  
Last Statement Date 06/29/2018

1	Statement Period		
Previous Balance	860,274.32	# Of Days-Stmt Period	32
1 Deposits/Credits	156,090.00	Average Balance	837,716.57
1 Checks/Withdrawals	107,309.60	YTD Interest	0.00
Ending Balance	909,054.72		
Total Srv Chg Today	0.00		

Deposits

Date	Description	Amount
07/16/18	MERCHANT CAPTURE DEPOSIT	156,090.00

Withdrawals

Date	Description	Amount
07/02/18	TO XXXXXXXX1514 Warren Act Trust Fund Reimb. Mar thru Ju	107,309.60

Daily Balance Summary

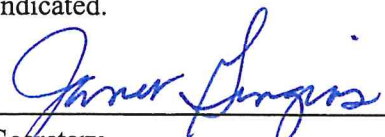
Date	Amount	Date	Amount
07/02/2018	752,964.72	07/16/2018	909,054.72

**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board

**FROM:** Janet Gingras, Secretary

**SUBJECT:** COMB INVESTMENT POLICY

The above statement of investment activity for the month of July, 2018, complies with legal requirements for investment policy of government agencies, AB 1078. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.

  
Secretary

# AMERICAN RIVIERA BANK

P.O. Box 329, Santa Barbara, California 93102  
805-965-5942 www.americanrivierabank.com



CACHUMA OPERATION AND MAINTENANCE BOARD  
RENEWAL ACCOUNT  
3301 LAUREL CANYON RD  
SANTA BARBARA CA 93105-2017

Page 1

ACCOUNT ANALYSIS CHECKING

Account No 705011530  
Statement Date 07/31/2018  
Last Statement Date 06/29/2018

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0	Statement Period		
Previous Balance	10,215.61	# Of Days-Stmt Period	32
0 Deposits/Credits	0.00		
0 Checks/Withdrawals	0.00	Average Balance	10,215.61
Ending Balance	10,215.61		
Total Srv Chg Today	0.00	YTD Interest	0.00


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**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board

**FROM:** Janet Gingras, Secretary

**SUBJECT: COMB INVESTMENT POLICY**

The above statement of investment activity for the month of July, 2018, 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 investments of this agency for the period indicated.

  
Secretary



Local Agency Investment Fund  
 P.O. Box 942809  
 Sacramento, CA 94209-0001  
 (916) 653-3001

[www.treasurer.ca.gov/pmia-laif/laif.asp](http://www.treasurer.ca.gov/pmia-laif/laif.asp)  
 August 16, 2018

CACHUMA OPERATION AND MAINTENANCE BOARD

GENERAL MANAGER  
 3301 LAUREL CANYON ROAD  
 SANTA BARBARA, CA 93105-2017

PMIA Average Monthly Yields

Account Number:  
 70-42-001

Tran Type Definitions

July 2018 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
7/12/2018	7/12/2018	RW	1574727	EDWARD LYONS	-240,000.00
7/13/2018	7/12/2018	QRD	1578681	SYSTEM	5,869.17

Account Summary

Total Deposit:	5,869.17	Beginning Balance:	2,027,905.05
Total Withdrawal:	-240,000.00	Ending Balance:	1,793,774.22

MEMO TO: Board of Directors  
 Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of July, 2018, 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 LAIF investments of this agency for the period indicated.

  
 \_\_\_\_\_  
 Secretary

**Cachuma Operation & Maintenance Board  
Paid Claims  
As of July 31, 2018**

Date	Num	Name	Memo	Amount
<b>1050 - General Fund</b>				
07/05/2018	26149	Accountemps	Temp Ofc Admin Labor W/E 6/22/18 (Admin)	-1,457.32
07/05/2018	26150	Association of Ca Water Agencies/JPIA	Group Health Premiums - July	-33,997.83
07/05/2018	26151	Buena Tool Co.	Lubricants (Ops)	-85.77
07/05/2018	26152	City of Santa-Barbara	Trash /Recycle - June	-223.05
07/05/2018	26153	Draganchuk Alarm Systems	Alarm Monitoring 7/1-9/30/18	-82.50
07/05/2018	26154	ECHO Communications	Message Service - June	-63.25
07/05/2018	26155	Employee Relations, Inc.	Background Verification (Fish)	-30.00
07/05/2018	26156	Federal Express	Return Ship Non-functioning barologger (Fish)	-94.04
07/05/2018	26157	Flowers & Associates, Inc.	Canyon Slide Repair (\$18.5k) thru 05/31/18	-21,424.86
07/05/2018	26158	Harrison Hardware	Supplies (Ops & Fish)	-162.32
07/05/2018	26159	J&C Services	Office Cleaning Service - June 2018	-600.00
07/05/2018	26160	Kristen Sneddon	Director Fees June 2018	-463.55
07/05/2018	26161	Lauren W. Hanson	Director Fees June 2018	-310.90
07/05/2018	26162	Nestle Pure Life Direct	Operations - Safety	-71.30
07/05/2018	26163	Perry Ford	2015 Ford F-150 (Brakes & Battery)	-836.46
07/05/2018	26164	Polly Holcombe	Director Fees June 2018	-430.25
07/05/2018	26165	SB Home Improvement Center	Supplies (Ops)	-129.03
07/05/2018	26166	Southern California Edison	Main Office & Outlying Stations	-1,447.91
07/05/2018	26167	Underground Service Alert of So. Calif.	111 Ticket Charges & Database Fee (Ops)	-193.15
07/05/2018	26168	W. Douglas Morgan	Director Fees June 2018	-321.80
07/05/2018	26169	Wright Express Fleet Services	Fleet Fuel - June	-3,344.24
07/12/2018	26170	Frontier Communications	Carpinteria Outlying Station Phone Service - June	-55.90
07/12/2018	26171	Frontier Communications	Ortega Outlying Station Phone Service - June	-5.91
07/12/2018	26172	Frontier Communications	Main Office, Outlying Stations, North Portal Phone Service - June	-491.41
07/12/2018	26173	Frontier Communications	SCADA - June	-571.87
07/12/2018	26174	Verizon Wireless	Operations Cell Phones May & June	-1,147.45
07/12/2018	26175	Verizon Wireless	Wireless Modems May & June (Ops)	-617.15
07/12/2018	26176	Verizon Wireless	Fisheries Cell Phones (May & June)	-3.63
07/19/2018	26177	Carinna A. Butler	Final Pay - Wages through 07/17/18	-418.67
07/19/2018	26178	Carinna A. Butler	Final Pay - Accrued Vacation through 07/17/18	-366.56
07/25/2018	26179	Accountemps	Temp Ofc Admin Labor Ws/E 7/6/18 & 7/13/18 (Admin)	-2,636.20
07/25/2018	26180	Association of Ca Water Agencies/JPIA	Group Health Premiums - August	-33,997.83
07/25/2018	26181	AT&T	Long Distance Charges - June	-829.43
07/25/2018	26182	Cabela's Inc.	Waders & Accessories (Fish)	-349.62
07/25/2018	26183	Coastal Copy, LP	Maintenance for Kyocera 3051ci & TaskAlfa 6052ci	-453.85
07/25/2018	26184	COM3 Consulting Inc.	Project Management Svcs Quiota Creek Crossing 8 through 6/30/18	-680.00
07/25/2018	26185	County of Santa Barbara Water Agency Dept	IRWMP Dues 1/1/18-6/30/18 (Integrated Regional Water Mgmt Prog)	-1,864.17
07/25/2018	26186	Cox Communications Santa Barbara	Business Internet - July	-140.00
07/25/2018	26187	Cushman Contracting Corp.	Construction Svcs -Thomas Debris Flow (Ops)	-114,080.55
07/25/2018	26188	Flowers & Associates, Inc.	Engineering Svcs - San Antonio Creek Blow Off through 6/30/18 (Ops)	-5,568.00
07/25/2018	26189	HDR Engineering, Inc.	SCC Struct Rehab - Engineering Design	-2,559.62
07/25/2018	26190	Home Depot Credit Services	Supplies, Ladder, rat traps, gloves, misc (Ops)	-181.81
07/25/2018	26191	Integra Chemical Company	Chlorinator Kit & Supplies (Ops)	-1,463.60
07/25/2018	26192	MarBorg Industries	Portable Facilities - Outlying Stations	-241.40
07/25/2018	26193	Musick, Peeler & Garrett LLP	Legal Services - May	-22,241.00
07/25/2018	26194	Powell Garage	2003 Ford F-150 Oil change, maintenance, Brake pads & rotors	-607.32
07/25/2018	26195	SHRM	SHRM Membership E.Lyons - 10/1/18 - 9/30/19	-209.00
07/25/2018	26196	Southern California Edison	Electricity - Main Office & Outlying Stations	-74.72
07/25/2018	26197	Spatial Wave	Field mapplet Software Maintenance Jul-Sept 2018	-900.00
07/25/2018	26198	Staples Credit Plan	Office Supplies (Ops & Fish)	-406.43
07/25/2018	26199	Storrer Environmental Services	Nesting Bird Survey - Quiota Creek #5 7/1-7/31/18	-810.00
07/25/2018	26200	SWRCB	Permit Application Fee for Quiota Creek Crossing 5 & 9	-442.00
07/25/2018	26201	Tim Robinson	Reimburse ESRI Conference (Fees & Expenses)	-1,935.05
07/25/2018	26202	Tri-Co Reprographics	Printing & Collating - Quiota Creek Crossings 5 & 9	-346.23
07/25/2018	26203	ULINE	50 Gallon Mobile Spill Kit with Bags (Ops)	-678.07
07/25/2018	26204	United States Geological Survey	USGS Quarterly Joint Stream Guage Agreement 5/1/18-7/31/18	-23,187.50
07/25/2018	26205	Flowers & Associates, Inc.	Engineering Svcs - SYC Slide Repair through 6/30/18	-9,970.34

**Cachuma Operation & Maintenance Board  
Paid Claims  
As of July 31, 2018**

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
07/25/2018	26206	HDR Engineering, Inc.	Engineering Svcs - FMP Implementation, Engineering Design, QC Xings 5&9	-17,796.89
07/25/2018	ACH072518A	American Riviera Bank (ARB)	EPFP - Loan Pmt	-28,123.75
07/25/2018	ACH072518B	American Riviera Bank (ARB)	EPFP - Loan Pmt	-10,354.21
Total 1050 - General Fund				<u>-352,576.67</u>
<b>TOTAL</b>				<b><u>-352,576.67</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

**Wednesday, August 1, 2018**

**3:00 PM**

### AGENDA

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. 2017 Annual Report of the Lake Cachuma Oak Tree Restoration Program (*for review and possible recommendation*)
5. Program Action Items for Fiscal Year 2018-19 (*for information and possible recommendation*)
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.]

# CACHUMA OPERATION & MAINTENANCE BOARD

## Public Outreach Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

**Thursday, August 9, 2018**  
**2:00 PM**

### AGENDA

*Chair: Director Hanson*  
*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. Presentation of Proposed New Website Platform - Streamline (*for information and possible recommendation*)
4. 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 569-1391 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.]

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	August 27, 2018
Submitted by:	Janet Gingras

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**SUBJECT:** Change to Board Committee Appointments for Fiscal Year 2018-19

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**RECOMMENDATION:**

The President of the Board announce a change to members of the Administrative Committee for Fiscal Year 2018-19.

**SUMMARY:**

At the July 23, 2018 Regular Board meeting, the President of the Board made committee appointments for each of the five standing committees; Administrative, Operations, Fisheries, Lake Cachuma Oak Tree, and Public Outreach. The committee appointments remained the same as the previous fiscal year which are displayed in the exhibit below. Per the Board Governance Policy, the President of the Board has discretion to consider a change to committee appointments. At this time, the President of the Board has elected to make a change to the members of the Administrative Committee for the remainder of Fiscal Year 2018-19.

**LIST OF EXHIBITS:**

1. Current COMB Committee appointments for Fiscal Year 2018-19

COMMITTEE NAME	COMMITTEE CHAIR	COMMITTEE MEMBER	ALTERNATE MEMBER
<b>Administrative (Finance, Personnel, Legal)</b>	Director Morgan	Director Sneddon	Director Holcombe
<b>Operations</b>	Director Sneddon	Director Morgan	Director Holcombe
<b>Fisheries</b>	Director Holcombe	Director Hanson	Director Morgan
<b>Lake Cachuma Oak Tree</b>	Director Sneddon	Director Morgan	Director Holcombe
<b>Public Outreach</b>	Director Hanson	Director Holcombe	Director Morgan

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	August 27, 2018
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

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**SUBJECT:** Financial Review – 4<sup>TH</sup> Quarter Fiscal Year 2017-18

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**RECOMMENDATION:**

The Board of Directors receive and file the 4<sup>th</sup> Quarter Fiscal Year 2017-18 Financial Review and exhibit.

**DISCUSSION:**

The Board of Directors approves the Cachuma Operation and Maintenance Board (COMB) Budget each fiscal year. Unaudited financial statements are received and ratified by the Board on a monthly basis. Staff provides, on a quarterly basis, a fiscal year-to-date financial review of the unaudited interim financial reports to the Board of Directors, comparing fiscal performance to the Budget.

**FISCAL ANALYSIS:**

**Revenues Assessed and Collected**

- COMB assessed \$906.2K and collected \$884K in quarterly O&M Budget Assessments for the period April – June 2018. Year-to-date assessments for Santa Ynez River Water Conservation District, ID No. 1 in the amount of \$85.0K are outstanding.
- COMB collected \$107.3K from the Warren Act Trust Fund for Fisheries and Oak Tree Program related expenses incurred for the period March 2018 – June 2018.
- COMB collected \$90k from the County of Santa Barbara for its annual contribution to the Cachuma Project Betterment Fund.
- COMB assessed \$115.8K in quarterly EPFP Loan Assessments related to loan repayments made on behalf of Goleta Water District and Montecito Water District pertaining to the Emergency Pumping Facility for the period April – June 2018. Payments were collected in July 2018.
- COMB received notification of approval from FEMA/CalOES for two claims submitted in response to the Thomas Fire and Debris Flow event. The claims represented costs for Debris Removal and Permanent Repair Work (\$107k). COMB collected \$102.1K in July.
- In April, COMB collected \$35K in grant funds from the US Bureau of Reclamation related to the Cachuma Project Log Boom Installation Project.
- COMB collected \$3.0K in interest income for funds held with LAIF.

**Expenditures**

### **General and Administrative (Combined)**

- General and Administrative Expenses include costs for support of all administrative functions of COMB such as: Director fees, legal expenditures, general liability and property insurance, audit fees, utilities, IT and communications, postage and office supplies, training, education and subscriptions and miscellaneous expenses. Costs are generally allocated between Operations and Maintenance (65%) and Fisheries Division (35%). General and Administrative expenses of \$330.1K (89.83%) were within the apportioned budget.
- General and Administrative Labor includes salaries, employer taxes, health insurance and retirement benefit costs for the COMB General Manager and Administrative staff. General and Administrative Labor expense of \$689.6K (89.29%) was within the apportioned budget. COMB had one administrative position on leave of absence during the fourth quarter. This position was filled by a part-time, temporary staff person. No additional hires are projected at this time.
- **The total combined General and Administrative expenses and labor of \$1.02M (89.46%) thru June are within the apportioned budget.**

### **Operations Division**

- Operation and Maintenance Labor includes salaries, employer taxes, health insurance and retirement benefit costs. Personnel costs of \$654.5K (82.95%) are lower than the apportioned budget due to staff vacancies.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Year to date actual costs of \$42.9K (78.02%) are within the apportioned budget. Unanticipated costs include repairs to Hydraulic System Posi-Track Tractor (\$4k) and fuel costs (\$1.5K) incurred during December to operate emergency generators at the COMB office during an electrical outage resulting from the Thomas Fire.
- Contract Labor contains funds for outside services and labor that cannot be supported by COMB staff which may include elevator maintenance or repair, tree trimming and removal services, heavy equipment and operators' labor costs for various small projects including meter calibration and meter repair. Projects and staff assignments are reviewed by the General Manager and Operations Division Manager to control costs in this category. Actual costs of \$21.3K (22.45%) are within the apportioned budget.
- Materials and Supplies covers costs related to the operation and maintenance of the conduit, reservoirs, and outlying buildings and roads. Actual costs of \$14.2K (18.19%) are within the apportioned budget.
- Other Expenses includes utilities, uniforms, hazardous waste disposal, communications (phones at facilities, and cell phones for operations and maintenance), Underground Service Alerts, and employee training and certifications. Actual costs of \$41.5K (92.32%) are within the apportioned budget.
- Special Projects - Board policy requires that all infrastructure improvement projects are to be approved thru Committee and by the Board prior to commencement. Actual costs thru June were \$617.6k. This amount is attributed to the following projects: South Coast Conduit Structure Rehabilitation Project (\$198K), Sycamore Canyon Slope Stabilization (\$125K), North Portal Debris Log Boom Installation (\$71.5K), North Portal Slope Stabilization Project (\$69K), storage of key components of the pumping barge (\$84K), and Lateral 3A engineering services (\$14K).
- **The total Operations Division expenses of \$2.2M (75.7%) thru June are within the apportioned budget.**



## Fisheries Division

- Fisheries Division Labor includes salaries, employer taxes, health insurance and retirement benefit costs for the Fisheries Division Manager, two Senior Field Biologists, a Biologist Aide position, and four part-time seasonal positions. Personnel costs of \$676.5K (99.0%) were within the apportioned budget.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Year to date actual costs of \$62.8K (193.3%) were higher than the apportioned budget. Notable expenses include the replacement of a vehicle (\$33.8k) that was damaged in a vehicle accident. COMB received \$14.7k of insurance proceeds to offset the replacement cost. COMB also incurred unexpected repairs to its International 4300 Water Truck (\$4.7k) to repair its rear axle and replace the water pump.
- Contract Labor contains funds for outside services/labor to support equipment calibration on flow meters, and funds for technical assistance corresponding to the operation, maintenance and performance review of completed fish passage projects. Actual costs of \$7.7K (27.5%) are within the apportioned budget.
- Materials and Supplies includes costs for the purchase of items needed for the Fisheries Monitoring Program specifically for migration, spawning and over-summering; constructing and repairing fish migration traps and the equipment necessary to conduct snorkel and redds surveys. Actual costs of \$4.6K (66.4%) are within the apportioned budget.
- Other Expenses include funds to pay for uniforms and gear for the fisheries division employees. Actual costs of \$4.2K (169.2%) are higher than the apportioned budget. Current year expenditures are high due to the purchase of new uniforms and wading boots for staff.
- Fisheries Division Activities includes funding for special activities related to ongoing Cachuma Project Biological Opinion (BO) compliance efforts, the implementation of the Lower Santa Ynez River Fisheries Monitoring Program, GIS mapping, grants technical support, USGS Stream Gauge Program and the Oak Tree Restoration Program. Actual costs of \$184K (79.0%) are within the apportioned budget.
- Fisheries Habitat Improvement - Board policy requires that all habitat improvement projects are to be approved thru Committee and by the Board prior to commencement. Costs of \$323.1K thru June include the following fish passage projects: COMB Quiota Creek Crossing 5 (\$165.0K) and Quiota Creek Crossing 9 (\$134.2k) and Tributary Projects Support (\$20.0k).
- **The total Fisheries Division expenses of \$1.5M (63.7%) thru June are within the apportioned budget.**

## Restricted Funds and Obligations

- **Warren Act Trust Fund (Restricted Fund)** - The Warren Act Trust Fund is a requirement of the Cachuma Project Warren Act Contract negotiated between the Central Coast Water Authority (CCWA) and the Bureau of Reclamation for delivery and transport of State Water Project water through the Cachuma Project facilities. A 1995 memorandum of understanding executed in conjunction with the Warren Act Contract established a charge of \$43 per acre foot (AF) (\$58 initially with a \$15 service charge by Reclamation), which is not indexed. Payments are required upon delivery of SWP water to Cachuma Reservoir. CCWA makes quarterly payments to COMB based on the prior quarter's water deliveries to the lake.

The balance in the restricted account as of June 30th in the amount of \$750K and is comprised of funds collected in calendar year 2017 of \$539K. These funds were reviewed by the Cachuma Project Warren Act Trust Funds Advisory Committee at their meeting in May 2018 and appropriated towards eligible FY 2018-19 fisheries activities.

COMB has collected an additional \$146K of Warren Act Trust Fund payments from CCWA in calendar year 2018. These funds along with future funds deposited in calendar year 2018 will be reviewed by the committee in April 2019 for use in FY 2019-20.

- **Renewal Funds (Restricted Fund)** - The Renewal Fund is a requirement of the 1995 Renewal Master Contract (executed in 1996) entered into for water conveyance from the Cachuma Project to the five Cachuma Project Member Units, which are the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District, and the Santa Ynez River Water Conservation District, Improvement District No. 1 (ID No. 1).

The Renewal Master Contract requires the payment of \$10 per acre foot of water made available by the Cachuma Project. The Renewal Fund itself is capped at \$257,100, which is related to the current annual operational yield of 25,714 AF. The aggregate amount to be deposited in the Renewal Fund at the start of each Water year by the Cachuma Member Units is not to exceed an amount which bears a ratio to \$257,100, which is inverse to the ratio which the aggregate amount paid into the Warrant Act Trust Fund during the immediately preceding Calendar Year bears to \$300,000.

For WY 2017-18 and projected WY 2018-19, the amount required to be deposited into the Renewal Fund by the Cachuma Member Units is zero based on the fact that the amount of funds deposited into the Warren Act Trust Fund exceeded the calculation threshold.

- **EPFP Bank Loan Obligation** – During fiscal year ending 2015, COMB contracted for the construction of the Emergency Pumping Facilities Project (EPFP) to provide continued delivery of water from Lake Cachuma to the Member Agencies until sufficient inflow occurred and the reservoir levels returned to normal operating condition. In order to implement this large scale project, three of the four South Cost Member agencies agreed to finance their proportionate share through a commercial financing arrangement with the Bank of Santa Barbara, which merged with American Riviera Bank during 2016.

The Districts participating in the financing included Goleta Water District, Montecito Water District and Carpinteria Valley Water District. The City of Santa Barbara chose to fund their portion through quarterly assessments.

While COMB secured the financing of the project, the three districts participating in the debt obligation provided the guarantee for repayment of their allocated percentage.

The financing arrangement was converted to a sixty (60) month repayment loan as of July 25, 2016. Carpinteria Valley Water District opted to pay off their obligation in-full on or about the conversion date.

COMB assesses the remaining member agencies at the end of each quarter, for the monthly loan payments made on their behalf during that period. As of June 30, 2018, the total combined principal outstanding for the EPFP loan obligation is approximately \$977.7K.

- **Bradbury/Lauro SOD Contracts** - Under the terms and conditions of a repayment contract executed in 2002, COMB is responsible for payment to the United States of fifteen percent (15%) of the total amount of Safety of Dams (SOD) Act funds expended by the United States for structural stability and related work at Bradbury Dam.

The fifteen percent obligation under the Bradbury SOD contract is \$7,605,739 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY

2018-19 is \$261,647 and assesses the Member in accordance with each Member Agencies' Cachuma Project entitlement percentages.

The fifteen percent obligation under the Lauro SOD contract is \$1,009,737 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2018-19 is \$44,404.66 and assesses the South Coast Member Agencies (only) in accordance with each Member Agencies' pro-rata Cachuma Project entitlement percentages.

**LIST OF EXHIBITS:**

- 1) Fiscal Year 2017-18 Statement of Revenue and Expenditures

**Cachuma Operation & Maintenance Board  
Statement of Revenues and Expenditures  
Budget vs. Actuals July 2017 - Jun 2018**

	Fisheries				Operations				TOTAL			
	Jul - Jun 18	Budget	\$ Over Budget	% of Budget	Jul - Jun 18	Budget	\$ Over Budget	% of Budget	Jul - Jun 18	Budget	\$ Over Budget	% of Budget
<b>Income</b>												
<b>Revenue</b>	1,483,834.54	2,425,140.00	-941,305.46	61.19%	3,474,739.10	2,893,190.00	581,549.10	120.1%	4,958,573.64	5,318,330.00	-359,756.36	93.24%
<b>Total Income</b>	1,483,834.54	2,425,140.00	-941,305.46	61.19%	3,474,739.10	2,893,190.00	581,549.10	120.1%	4,958,573.64	5,318,330.00	-359,756.36	93.24%
<b>Gross Profit</b>	1,483,834.54	2,425,140.00	-941,305.46	61.19%	3,474,739.10	2,893,190.00	581,549.10	120.1%	4,958,573.64	5,318,330.00	-359,756.36	93.24%
<b>Expense</b>												
<b>General and Admin Expenses</b>	93,276.61	110,796.00	-17,519.39	84.19%	236,844.54	256,713.00	-19,868.46	92.26%	330,121.15	367,509.00	-37,387.85	89.83%
<b>General and Admin Labor</b>	188,511.75	217,970.00	-29,458.25	86.49%	501,098.58	554,370.00	-53,271.42	90.39%	689,610.33	772,340.00	-82,729.67	89.29%
<b>O&amp;M Labor</b>	0.00				654,542.19	789,107.00	-134,564.81	82.95%	654,542.19	789,107.00	-134,564.81	82.95%
<b>O&amp;M Vehicle &amp; Equip</b>	0.00				42,909.06	55,000.00	-12,090.94	78.02%	42,909.06	55,000.00	-12,090.94	78.02%
<b>O&amp;M Contract Labor</b>	0.00				21,331.56	95,000.00	-73,668.44	22.45%	21,331.56	95,000.00	-73,668.44	22.45%
<b>O&amp;M Material and Supplies</b>	0.00				14,185.96	78,000.00	-63,814.04	18.19%	14,185.96	78,000.00	-63,814.04	18.19%
<b>O&amp;M Other Expenses</b>	0.00				41,542.39	45,000.00	-3,457.61	92.32%	41,542.39	45,000.00	-3,457.61	92.32%
<b>O&amp;M Special Projects</b>	0.00				617,571.58	1,020,000.00	-402,428.42	60.55%	617,571.58	1,020,000.00	-402,428.42	60.55%
<b>Fisheries Labor</b>	676,476.69	683,374.00	-6,897.31	98.99%	0.00				676,476.69	683,374.00	-6,897.31	98.99%
<b>Fisheries Vehicle &amp; Equip</b>	62,818.34	32,500.00	30,318.34	193.29%	0.00				62,818.34	32,500.00	30,318.34	193.29%
<b>Fisheries Contract Labor</b>	7,706.99	28,000.00	-20,293.01	27.53%	0.00				7,706.99	28,000.00	-20,293.01	27.53%
<b>Fisheries Material and Supplies</b>	4,649.97	7,000.00	-2,350.03	66.43%	0.00				4,649.97	7,000.00	-2,350.03	66.43%
<b>Fisheries Other Expenses</b>	4,230.98	2,500.00	1,730.98	169.24%	0.00				4,230.98	2,500.00	1,730.98	169.24%
<b>Fisheries Activities</b>	184,008.40	233,000.00	-48,991.60	78.97%	0.00				184,008.40	233,000.00	-48,991.60	78.97%
<b>Fisheries Habitat Enhancement</b>	323,069.48	1,110,000.00	-786,930.52	29.11%	0.00				323,069.48	1,110,000.00	-786,930.52	29.11%
<b>Other Interest Expense - EPFP</b>	0.00				59,275.97				59,275.97	0.00	59,275.97	100.0%
<b>Total Expense</b>	1,544,749.21	2,425,140.00	-880,390.79	63.7%	2,189,301.83	2,893,190.00	-703,888.17	75.67%	3,734,051.04	5,318,330.00	-1,584,278.96	70.21%
<b>Net Income</b>	<b>-60,914.67</b>	<b>0.00</b>	<b>-60,914.67</b>	<b>100.0%</b>	<b>1,285,437.27</b>	<b>0.00</b>	<b>1,285,437.27</b>	<b>100.0%</b>	<b>1,224,522.60</b>	<b>0.00</b>	<b>1,224,522.60</b>	<b>100.0%</b>

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	August 27, 2018
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

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**SUBJECT:** Presentation on New Website Platform - Streamline

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**RECOMMENDATION:**

The Board of Directors receive a presentation on updating the COMB website to a new website platform, Streamline.

**BACKGROUND:**

The current Cachuma Operation and Maintenance Board website is operated on a MODX platform which has become outdated and has limited capabilities for internal staff to implement changes. Technical support from outside consultants is necessary to make changes or update content, which requires additional costs and delays in completion. In addition, there have been recent changes in regulatory compliance protocols in reference to website content for special districts.

Staff solicited and received quotes from two web design firms in accordance with COMB's procurement policy. The proposals were reviewed to compare the costs associated with updating and/or re-organizing our current website and content to comply with new regulations.

The first quotation was based on a custom web redesign approach where staff would contract with a web developer to design and develop a new website from conception to completion. This approach was quoted as a fixed price (approximately \$12,000, in addition to COMB staff time) and would take an estimated three to six months to complete. Under this scenario, COMB would also incur ongoing hosting and maintenance fees (approximately \$1,000 per year). Further, costs would be incurred for consultant time associated with additions, changes and maintenance charges related to maintaining compliance with changes in legislation.

The second quotation was pricing for contracting with a software licensing company (Streamline) that offered a pre-designed website template focusing on special districts. This approach allows the customer the ability to customize the website design to suit individual district needs and requirements. The fee for this approach (\$450 per month) is calculated on a sliding scale according to a districts' annual operating budget. Additional discounts are provided for members of California Special Districts Association (CSDA), Local Agency Formation Commission (LAFCO) and OpenGov which would reduce COMB's license fee to \$300 per month.

Staff reviewed the features of Streamline Web Services (Streamline) and decided to move forward based on cost, security and reliability, compliance features, ease of use and customer feedback. Streamline is a web hosted "Software as a Service" (SaaS) solution. SaaS is a software licensing and delivery model in which software is licensed on a subscription basis and is centrally hosted. SaaS is a common delivery

model for many business applications, including accounting, payroll processing, customer relationship management (CRM), Management Information Systems (MIS), enterprise resource planning (ERP), human resource management (HRM), talent acquisition and content management (CM). Streamline specializes in web design for public agencies and special districts. The company has been in business since 2014 with their parent company, Digital Deployment, having established in 2004. Streamline has over 150 clients. The company charges a monthly subscription fee which includes access to their program and platform, as well as, receiving all feature releases, theming enhancements and security updates automatically. No additional costs are incurred for new themes, updated tools or navigation management enhancements.

Streamline Web contains the following compliance and transparency features:

- A meeting dashboard for setting up regular Board meeting schedules with the ability to see at a glance when agendas and minutes have been uploaded. The site will automatically notify staff about approaching deadlines in compliance with the Brown Act.
- A transparency dashboard which assists the user in understanding the requirements of transparency compliance, checks progress and publishes required content. The user can easily add documentation from within the dashboard to complete requirements and verify status against the State of California requisites and recommended disclosures per the Special District Leadership Foundation's Transparency Certificate of Excellence program.
- A web tool that ensures Section 508 compliance (ADA), making the site available to people with disabilities. A 508 compliant website is compatible with assistive technology such as screen readers.
- Regular updates, at no additional cost, for changes in legislation and compliance. For example, the main homepage screen has been updated for California Assembly Bill 2257 which goes into effect in January 2019. AB 2257 amends the Brown Act for new website and agenda requirements and requires agencies with websites to post a prominent, direct link on their primary webpages to the current agenda for all meetings.

Streamline content management system allows the users to add new content, delete old content and create new pages. The program also allows the user to upload and manage assets like images, file attachments and videos. Once an asset is updated, the change is automatically reflected on all connected pages. The system also allows links to external 3<sup>rd</sup>-party solutions such as on-line bill pay, social media, etc.

The Streamline infrastructure is built on Amazon Web Services (AWS) and includes security features such as multi-factor authentication for developer access, security groups, restricted firewall, access control lists, virtual private networking, and SSH public/private key authentication. The framework provides protection against cross-site request forgeries and SQL injection. The platform is hosted on Amazon's virtual servers in Oregon, with planned failover to their servers in Virginia. Site files are stored on Amazon S3, which is designed for a data integrity reliability of 99.999999999%.

Staff reviewed the Streamline framework and platform with its external IT consultant, Turenchalk Network Service and concluded the main application and infrastructure to be reliable with respect to uptime. It was also determined that the risk for footprinting (i.e. cyberattack) or other forms of security breach to be low, based on the security protocols in place by the web host, coupled with the fact that COMB does not store any sensitive agency or customer information on its website.

Staff also requested and received four client references. Those contacted were asked the following questions:

- How many years has your agency used Streamline Web Services?

- Has your agency incurred any additional (or unanticipated) costs outside the monthly subscription fee to maintain a website through Streamline?
- Has your website experienced any downtime related to Streamline hosted servers?
- Has your website experienced any security breaches/hackers?
- What other 3rd party solutions/software, does your agency utilize through its website (i.e. online bill pay/customer accounts, Google Analytics, social media, etc?)
- Is there any 3rd party solution/software that your agency is unable to connect with your website?
- On a scale of 1 – 10, (1=Extremely Dissatisfied; 10 – Extremely Satisfied), how satisfied are you with the following:
  - Streamline Product/Web Services
  - Streamline Compliance Features
  - Ease of Website Maintenance / Customization
  - Streamline Customer Service / Support

Feedback was received from the four clients and was extremely positive with each agency recommending Streamline for their web services. There were no reported occurrence of downtime or security breach. In addition, each agency confirmed no additional fees outside the monthly subscription cost.

**FISCAL IMPACT:**

The price for this service for COMB is \$450 per month (based on annual operating budget). An additional discount is provided to members of CSDA, LAFCO and OpenGov of \$150 per month, netting the cost for COMB to \$300 per month. The Fiscal Year 2018-19 adopted budget contains funding for this expenditure.

**COMMITTEE STATUS:**

The Public Outreach Committee has received a presentation on updating the COMB website to the Streamline website platform product.



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.”*

August 27, 2018

**General Manager Report**

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

Meetings

- Bureau of Reclamation – Water Rates Administration

Staff met with the Bureau of Reclamation’s rate-setting staff on Monday, August 6<sup>th</sup> to review a proposed methodology and a schedule for repayment of previous fiscal year deficits and extraordinary costs. Reclamation staff provided information explaining the formulation of rates to recover the deficits over a five year period. COMB staff subsequently provided corrected information to Reclamation regarding previous payments made by the Member Agencies through the melded rate structure. Reclamation is working through the development of water rates for water year 2019 and will be meeting with the County and the Member Agencies in early September to explain the methodology.

- Integrated Regional Water Management Plan (IRWMP)

The Cooperating Partners met on July 30<sup>th</sup> to review and approve new projects that were submitted to the Santa Barbara County IRWM Plan. COMB submitted the Lake Cachuma Water Quality and Sediment Study as a new project and currently has three projects previously listed; the Lake Cachuma Drought Emergency Pumping Facility project, the Glen Annie Dam Seismic Retrofit Project, and the Upper Reach Reliability Project. The IRWM Plan will be available for Cooperating Partners’ review and comment in September. Public review will occur in October and the Plan will go to the Board of Supervisors for adoption in December.

Administration

- Hazard Mitigation Plan

Staff is in the process of developing a Hazard Mitigation Plan which will become an annex to the 2017 Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan. Once a draft plan is completed, staff will present the draft plan to the Member Agencies for review and discussion prior to submitting to the Operations Committee. The process for approving the plan as an annex to the County’s plan has several layers of review including the County Office of Emergency Services (OES), the State of California OES, and then the Federal Emergency Management Agency (FEMA). Once reviewed by FEMA and if conditionally approved, COMB would then receive a conditional approval letter addressed to the Board of Directors. The Board would be required to adopt the plan through a resolution and submit the resolution to FEMA for final approval.

- Fiscal Policy

Staff is working on development of a fiscal policy for submission to the Administrative Committee for review and recommendation to the Board of Directors. The scope of the policy will span accounting, auditing, financial reporting, internal controls, operating and capital budgeting, revenue management, cash and investment management, asset management, and debt management. The fiscal policy will represent long standing principles and practices, formalize internal protocols, provide a guideline for administration in planning for various financial matters, and set forth a framework for overall fiscal management of COMB.



### Operations / Engineer Activities

- Arroyo Paredon Bridge Replacement Project - Caltrans

CalTrans is currently working under emergency status with respect to replacement of the Arroyo Paredon Bridge on Highway 192 in the Carpinteria area. The bridge suffered damage during the debris flow event in January. A high pressure gas line was installed during the past few weeks and work continues on the construction project. Caltrans' sent to Reclamation proposed plans for installation of rock slope protection and stream erosion stabilization measures within Reclamation's easement. Reclamation approved the plans and sent a letter of non-objection to CalTrans with terms and conditions related to key design components to protect the South Coast Conduit and plans for site monitoring after project implementation.

- Sycamore Canyon Slope Stabilization Project

The final engineering designs have been received from Flowers and Associates. A bid package has been prepared and needs review by General Counsel. Since a potential for FEMA hazard mitigation grant funding exists, staff is considering postponement of the project construction until after the winter season. The operations crew will winterize the site prior to commencement of the rainy season. Contractor bids will be solicited during late spring 2019.

- Water Quality and Sedimentation Management Study

Technical staff, comprised of personnel from the Member Agencies, met and reviewed the request for proposals prior to the released solicitation. Proposals are due before the end of August with an evaluation of proposals taking place in early September. The results of the evaluation and recommended consultant will be presented to the Operations Committee in September prior to submission to the Board of Directors.

### Fisheries Division Activities

All routine 2000 BiOp compliance monitoring has been conducted as required and requested by Reclamation. Monitoring tasks include snorkel surveys, streamflow and water quality monitoring, habitat mapping, lake profiles, target flow compliance, and RPM 6 activities for downstream releases. Staff continues to maintain all trees planted as part of the Lake Cachuma Oak Tree Restoration Program with the Annual Report completed last month. Progress is being made on all Annual Monitoring Summaries and Annual Monitoring Reports (2015 through 2018).

Construction of the Quiota Creek Crossing 5 Project began on July 23<sup>rd</sup> and the contractor is making good progress. The Quiota Creek Crossing 9 Project should begin at the beginning of September pending final permit acquisition. Staff conducts all the required biological monitoring for permit compliance and works closely with the contractor and project oversight engineer (Resident Engineer).

As requested, the COMB Fisheries Division staff also assisted Reclamation during their testing efforts for the Hilton Creek Watering System (lake) and HC Emergency Backup System prior to and during the initial WR 89-18 releases in regards to Lake Cachuma water delivery to Hilton Creek. Currently, the HCWS is delivering flows to the upper release point, allowing CCWA to deliver state project water through the penstock.

Respectfully Submitted,

*Janet Gingras*

General Manager

# CACHUMA OPERATION AND MAINTENANCE BOARD

## MEMORANDUM

**DATE:** August 27, 2018  
**TO:** Janet Gingras, General Manager  
**FROM:** Joel Degner, Water Resources Engineer  
**RE: MONTHLY ENGINEERING REPORT**

The following summary provides the Board with information and an overview of progress by engineering staff.

### ESRI CONFERENCE PRESENTATION

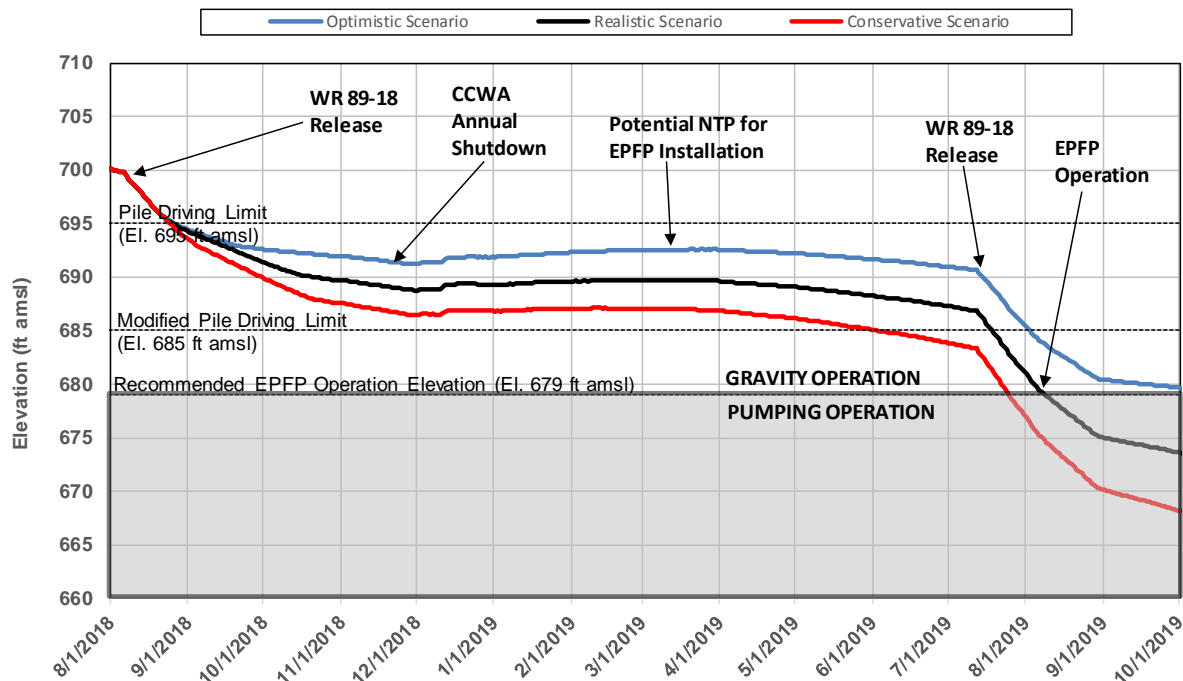
COMB staff provided a presentation at the ESRI users conference on July 11<sup>th</sup>.

### FORECASTED LAKE ELEVATIONS

Engineering staff continues to monitor and model lake elevations (Figure 1). The Lake Elevation Projection Model has been updated with data through August 20, 2018. The current forecast tracks with previous modeling efforts. If drought conditions continue in 2018-2019, the Notice to Proceed for the installation of the Emergency Pumping Facility would be needed in mid-March 2019 to have the EPFP operational by August/September 2019.

**Table 1. Lake Elevation Projection Scenarios**

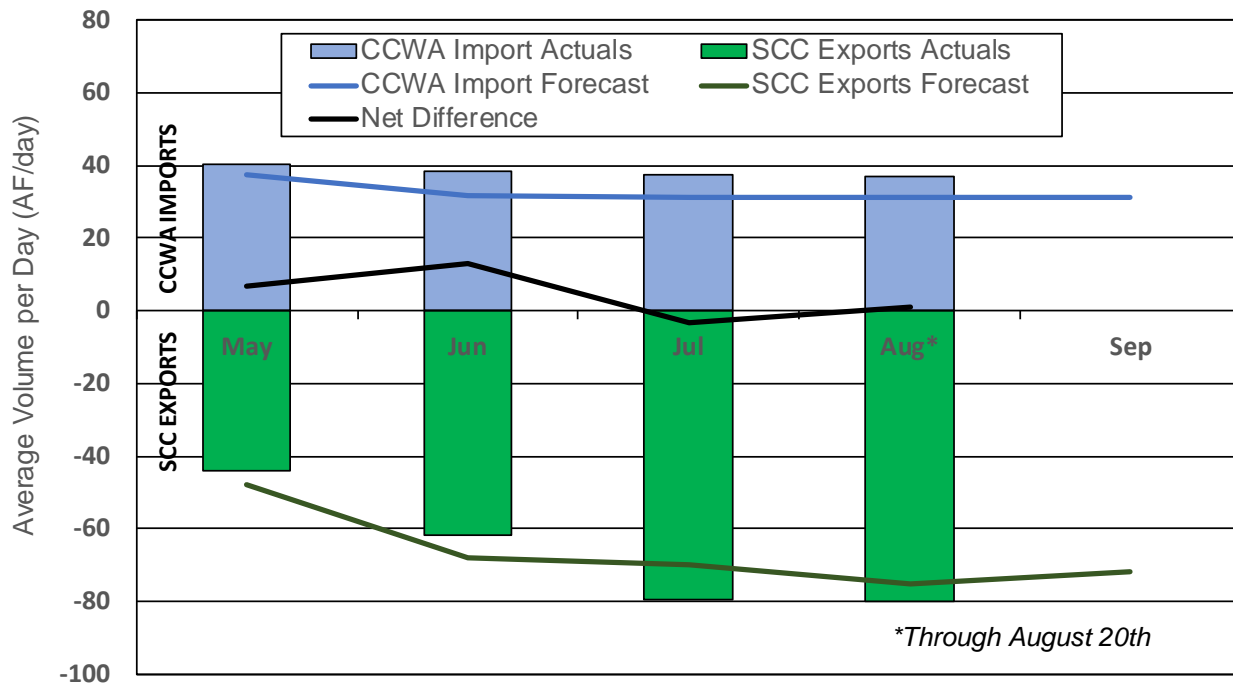
Parameter	Optimistic	Realistic	Conservative
SCC Exports	80% of Forecast	Forecast	120% of Forecast
CCWA Inflow	Full Capacity	Forecast (80% Full)	Forecast (80% Full)
WR 89-18 Release	8,000 AF	10,000 AF	12,000 AF



**Figure 1. Lake Cachuma Elevation Forecast (as of 8/20/2018) using 2015 Dry Year Hydrology**

The downstream water rights release began as scheduled on August 6th, 2018. As of August 23rd , approximately 5,800 acre-feet of water has been released from Lake Cachuma as part of the downstream release. Water was initially released at 180 cubic feet per second. Santa Ynez River Water Conservation District expects approximately 10,000 acre-feet to be released downstream.

The Member Agencies provided forecasts for imports/exports from Lake Cachuma in May 2018. Figure 2 compares the forecasts and actual usage in average volume per day . Overall, the forecasts have been reliable. From May 1, 2018 to August 20<sup>th</sup>, the Member Agencies have imported 600 AF more water than forecasted and utilized approximately 100 AF less water for a net impact of 700 AF more water in the lake than expected based on May 2018 forecasts. Updated forecasts will be requested from the Member Agencies and updated accordingly.



**Figure 2. Lake Cachuma Import-Export Forecast vs Actuals Comparison for 2018**

**CLIMATE CONDITIONS**

Santa Barbara County is in severe drought (D2) as of August 14, 2018 according to the United States Drought Monitor. The National Weather Service Climate Prediction Center predicts a ~ 60 percent chance for El Niño conditions in the Northern hemisphere fall 2018 (September to November) increasing to ~70 percent during the winter of 2018-2019. (Note: Previously predicted El Niño conditions during the last several years [2012-2018] did not result in above average rainfall for Santa Barbara County).

**GRANT FUNDING ACTIVITIES**

COMB received a letter of support from the Santa Barbara County Office of Emergency Services to prepare an Annex that would be included in the County’s Multi-jurisdictional Hazard Mitigation Plan which would improve eligibility for FEMA Hazard Mitigation Grant Program (HGMP) funding. COMB received notification from CalOES that the Notice Of Interest for the Sycamore Canyon Slope Stabilization was an eligible activity and confirmed a formal invitation to prepare a subapplication for HGMP grant funding. COMB staff is in the process of preparing

the subapplication. COMB staff continues to track Integrated Water Management Plan Proposition 1 Funding and re-occurring Bureau of Reclamation grant opportunities.

**INFRASTRUCTURE IMPROVEMENT PROJECT STATUS**

Table 2 provides a summary of the FY 2018-2019 Infrastructure Improvement Projects. The table has been updated according to COMB's 2018-2019 Operating Budget.

**Table 2. Infrastructure Improvement Projects Status**

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
<b>Infrastructure Improvement Projects</b>			
Sycamore Canyon Slope Stabilization	Final designs prepared for COMB's approval. Reclamation is completing NEPA analysis.	First phase of the repair in FY 18-19 will focus on stabilizing the eroded slope and fixing the drainage issues. A second phase may be needed in the future to stabilize the overall slope. Work will remain in easement. Bid timing under review. Several components could delay project to Spring 2019 (permitting, contract availability, and grant funding).	TBD
SCC Structure Rehabilitation (AVAR/BO)	Schedule A, B, C work to be completed in FY 2018-2019 (Cater WTP to Barker Pass). Next step is to complete the work plans for Sch. A and B with contractor in preparation for shutdown.	Work to be completed in low demand months. Two 3-day shutdowns required which need to be coordinated with Member Agencies demands.	May 2019 (Sch. A, B, C)
Lateral 3 Repair	Construction contract in place, parts ordered, repair scheduled for winter months of FY 2018-2019.	Requires 10-day shutdown in upper reach of the system.	February 2019
Rehabilitate San Antonio Creek Blow-off	Draft design complete. Quotes requested for valves. Next step is to finalize design and bid project. Repair planned to be timed with Lateral 3 shutdown in FY 2018-2019.	The repair requires shutdown in upper reach of the system and is planned to occur during Lateral 3 shutdown.	February 2019
SCC Line Valves for Shutdown	Pre-project planning. Determine if installation can be completed with shutdown or if bypass will be required. Next step is RFP preparation.	Additional line valves in the SCC could better facilitate planned maintenance activities.	Design by June 2019
SCC Structure Rehabilitation : Lower Reach Laterals	Staff started work with CVWD and CVWD contractor on lateral shutdowns requirements for each lateral. This project will involve a condition assessment and rehabilitation plan for the portions of the Lower Reach laterals under COMB's responsibility.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves may need replacement.	Design by June 2019
<b>Special Projects</b>			
Emergency Pumping Facility Project	Contract and permits in place for re-deployment if necessary. Board approved delay option until the Spring (March/April). Monitoring forecasts and lake levels closely.	Need highly dependent on lake levels and actual downstream releases. Current design requires long lead time in installation before the barge is utilized.	TBD
Lake Cachuma Water Quality and Sediment Management Study	RFP issued end of July. Proposals due end of August. Study will be overseen by technical review committee of Member Agency staff.	Recent wildfires will likely result in decreased water quality and increased sedimentation into Lake Cachuma.	March 2020

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**CACHUMA OPERATION AND MAINTENANCE BOARD**

**MEMORANDUM**

**DATE:** August 27, 2018

**TO:** Janet Gingras, General Manager

**FROM:** David Flora, Operations Division Lead

**RE:** MONTHLY OPERATIONS DIVISION REPORT

**Operations** – Report Attached

# MONTHLY OPERATIONS DIVISION REPORT

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AUGUST 27, 2018

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CACHUMA OPERATION  
& MAINTENANCE BOARD  
*DAVID FLORA*



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# Monthly Operations Division Report

## Introduction

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.
- Prompt response to Underground Service Alerts (USA's) within the USBR right-of-way.

## Operations staff regularly performs the following duties:

- Weekly off site inspections of major facilities
- Structure maintenance on all air vent, blow off and turnouts
- Dam inspection and instrumentation reports (all reservoirs)
- Annual exercising of control valves
- Quarterly meter calibrations
- Weekly safety meetings
- Weekly rodent bait (all reservoirs)
- Weekly toe drain and piezometer reads at Ortega (L23)
- USA Dig Alerts – Respond as necessary to alerts
- Pesticide report to County of Santa Barbara
- Operational tests of generators at the North Portal and at Lauro Yard
- Inspection of fire extinguishers
- Read anodes and rectifier data
- Water samples taken at Lake Cachuma
- Clean up, inspection and tool inventory of all vehicles
- Clean up and organize service yard and all buildings

***“Our mission is to provide a reliable source of water to our member agencies in an efficient and cost effective manner for the betterment of our community.”***

## Lake Cachuma Operations

The total flow from Lake Cachuma into the Tecolote Tunnel for July was 2469.7 acre-feet, for an average daily flow of 79.66 acre-feet. Lake elevation was 701.67 feet at the beginning of July and 700.12 feet at the end of July. Storage change decreased 2497 acre-feet. CCWA wheeled 1158.6 acre-feet of water to Cachuma Project facilities.

## South Coast Conduit Operations

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

- Staff has been on site monitoring several ongoing projects throughout the area, working closely with the construction and engineering contractors to ensure that:
  - Pipeline easements and the right-of-way remain accessible to Operations staff for possible emergencies and ongoing facility maintenance.
  - All projects are following the COMB and USBR approved plans.
  - No damage occurs to the SCC during the construction process.
- Continued daily monitoring of the Arroyo Paredon bridge replacement project located in Carpinteria. Cal Trans / Lash Construction began work June 4<sup>th</sup> removing the bridge which was damaged during the January 9<sup>th</sup> debris flows.
- Completed the annual Periodic Facility Reviews at all USBR dams along the South Coast Conduit.
- Completed repairs to the Toro Canyon creek blow off Sta. # 592+80 that was damaged during the January 9<sup>th</sup> mudslides.
- Completed repairs to the Lateral 29 structure in Carpinteria that was damaged during the January 9<sup>th</sup> mudslides.
- Completed the South Reach structure maintenance program at the last 44 sites. Included in



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this program is the exercising of all valves servicing of air vents, repainting of signage, cleaning and reestablishing site access.

- Oversight on the trenching and excavation for the installation of replacement electrical connection for Randal Rd. in Montecito.
- Attended the SCE Public Safety Power Shutdown meeting.
- Obtained the Lake Cachuma monthly water sampling for the City of Santa Barbara staff.
- The Operations department continually inspects all sites, reservoirs and the SCC for items to add to the IIP for future projects.

## Current Infrastructure Improvement projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation and Replacement - Executed contract with the lowest responsible bidder, Cushman Contracting Corporation.
- North Portal Slope Stabilization - The slope stabilization work is complete and road paving is slated for FY 2018-19.
- Sycamore Canyon Slide Repair – Final design provided by engineer and bid package is pending.
- Lateral #3 Replacement – The contractor is in place and the parts are acquired. Construction is delayed until next winter due to drought and lack of alternative sources of water.

# OPERATIONS PROJECT PHOTOS

Toro Canyon Blow Off Station # 592+80



**Lateral #29 Carpinteria**



**Structure Maintenance**



**On Going Projects & Monitoring**

**LAT 3A**



**Remove abandoned turnout and reconfigure blow off structure.**

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**PATTERSON AVE.**



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**Patterson Oaks subdivision**

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## **BOULDERS PROJECT**



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**Boulders subdivision**

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## Arroyo Paredon Bridge Replacement





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**Information  
on**

**Southern California Edison**

**Public Safety Power Shutoff**



# Public Safety Power Shutoff Frequently Asked Questions



**1. Q: What is a Public Safety Power Shutoff event?**

A. A Public Safety Power Shutoff (PSPS) is a practice that Southern California Edison (SCE) may use to preemptively shut off power in high fire risk areas to reduce fire risk during extreme and potentially dangerous weather conditions. The company's priority with the implementation of PSPS is the safety of the public, its customers and its employees. SCE prides itself on service reliability, and turning off the power to its customers is not something the company takes lightly. PSPS events are the option of last resort in a line of operational procedures SCE employs to mitigate fire risk when conditions warrant.

**2. Q: What is the methodology used by SCE to determine High Fire Risk Areas?**

A. SCE considers customers located in High Fire Risk Areas as those within the California Public Utilities Commission's (CPUC) Tier 2 (elevated risk) and Tier 3 (extreme risk) Fire-Threat Areas. The CPUC Fire-Threat Map was developed with input from the U.S. Forest Service, California Department of Forestry and Fire Protection (CAL FIRE) and the state's Investor-Owned Utilities (IOU), including SCE. To learn more about the CPUC Fire-Threat map, please visit the [CPUC's Fire-Threat Map webpage](#).

**3. Q: What are the benefits of a PSPS in regards to community safety?**

A. Debris and tree limbs/palm fronds can be blown into power lines during wind events, which could cause a service interruption (e.g. an electric wire to fall). Depending on the situation, these interruptions may have the potential to generate sparks that could ignite a fire. This is especially concerning when strong winds coupled with abundant fuel, dry conditions, and difficult to access terrain can increase the difficulty in fighting fires.

While SCE has operational practices that seek to limit the effects of debris when it contacts overhead electrical equipment, we cannot stop every instance.

Preemptively shutting off power is a last resort in our prevention and mitigation strategy. Although disruptive for our customers, preemptively shutting off power to our lines may be necessary to ensure the safety of our communities and employees when extreme weather conditions present a clear and imminent danger.

**4. Q What are the factors and criteria for PSPS?**

A. In considering whether to shut off power to lines in affected areas, SCE considers a wide variety of factors which may include, but are not limited to, the following:

- The National Weather Service has issued Red Flag Warnings\* for counties that contain SCE circuits in High Fire Risk Areas
- Ongoing assessments from the SCE in-house meteorologists regarding the local conditions related to wind speed, humidity, and temperature informed by strategically deployed weather stations

- Real-time situational awareness information from highly trained personnel positioned locally in High Fire Risk Areas identified as at risk for extreme weather conditions
- Input from our Fire Management experts co-located with the Office of Emergency Management regarding any ongoing firefighting efforts
- Specific concerns from local and state fire authorities regarding the potential consequences of wildfires in select locations
- Awareness of mandatory or voluntary evacuation orders in place
- Expected impact of de-energizing circuits on essential services such as public safety agencies, water pumps, traffic controls, etc.
- Other operational considerations to minimize potential wildfire ignitions

**5. Q: How will SCE communicate to customers before and after a PSPS event?**

- A. SCE plans to begin notifying customers approximately 48 hours in advance of a potential PSPS event, and will attempt to notify customers again approximately 24 hours before power is shut off. Additional notifications will be made throughout the outage, when power has been shut off and when it has been restored. There may be situations which prevent SCE from providing advance notice. The actual onset of extreme weather conditions and other circumstances beyond our control may impact coordination and notification efforts.

Notifications may occur via a combination of phone call, text, [sce.com](http://sce.com), email, and social media etc.

**6. Q: How will SCE coordinate with local governments, emergency operations of the local governments and first responders before and during a PSPS event?**

- A.
- In advance of PSPS events, SCE will meet with local governments to inform them about the PSPS protocol, including the location of circuits in their jurisdictions which may be shut off during a PSPS event
  - SCE will activate an Incident Management Team (IMT) when a PSPS event is a possibility.
    - The IMT will manage both the operational and communication tasks associated with an event, which includes interfacing with local governments' emergency operations, first responders such as police and fire agencies, with other government agencies, and essential customers such as hospitals
  - When feasible, notifications to local governments and other agencies will:
    - be made approximately two hours before customers are notified so they have visibility to impacted circuits
    - include key SCE contact information for the agency to use around-the-clock during the PSPS event
    - include when circuits are shut off and when they are restored

- advise that SCE personnel will be available 24 hours a day during the PSPS event to interface with local governments.

- Notifications to essential customers will be made in advance, when feasible, as well

**7. Q: What is SCE doing to ensure accurate customer contact information?**

- A. SCE leverages various communications channels, including media advertising to encourage customers to update their contact information on [sce.com/ONI](http://sce.com/ONI) or via MyAccount.
- SCE is conducting a direct outreach to essential, critical, and major customers in high fire risk areas in order to validate contact information
  - We will have representatives available at community meetings to update accounts real-time in addition to the regular practice of verifying and updating customer information during interactions with the contact center during regular inquiries and service requests
  - Leveraging customer-facing communications such as “Dear Neighbor” letters and SCE.com.
    - i. “Dear Neighbor” letters are mailed to customers about infrastructure projects in their area. We will be utilizing this existing process to communicate with customers in PSPS areas
    - ii. SCE.com will launch a dedicated webpage for customers to visit for information regarding PSPS

**8. Q: How long can a PSPS event last?**

- A. A PSPS event will last as long as the extreme and potentially dangerous weather conditions exist, along with additional time to inspect/repair our equipment in the affected area(s) to ensure safe and reliable power restoration.

**9. Q: How is it determined if it is safe to restore power?**

- A. First, the extreme weather conditions that triggered the shutoff must subside to safe levels before restoration is considered. Second, ground and aerial patrols will be conducted to ensure that power can be safely restored to our customers.

**10. Q: Is there a claims process for loss of goods (i.e. food)?**

- A. SCE has a process to evaluate claims related to PSPS. Each claim will be evaluated on a case-by-case basis and will be done so through the IMT activated during the incident. Please go through the standard SCE claims process -> [Direct Link](#). To navigate here go to <https://www.sce.com> Click on menu in the upper left-hand corner, click on customer support, click on claims & support forms, click on Overview – Claims & Support Forms.

**11. Q: Will SCE provide generators to customers during a PSPS?**

A. SCE does not provide generators to customers, except in limited cases where the need is coordinated in advance between SCE and local agencies for critical life and safety reasons, or for first responders. For customers with personal medical equipment and other critical personal devices, SCE urges customers to explore safe, alternative power sources, such as Uninterruptible Power Supplies (UPS), that can be used safely indoors to power medical equipment during a potential extended power shutoff. You can learn more about UPS systems on [EnergyStar's UPS webpage](#).

**12. Q: What other steps is SCE doing to reduce fire risk?**

A. We apply robust design and construction standards, aggressive tree trimming and other vegetation management activities, various operational practices (e.g. we will not automatically re-energize powerlines in high fire risk areas after a circuit interruption), and collaborative partnerships with fire agencies to maintain public safety. In addition, SCE is evaluating a variety of additional tools and technologies to advance fire safety throughout our system, including the use of drones, weather stations and cameras, to supplement our current capabilities and improve situational awareness.

**13. Q: Will this be the new normal during high fire/wind events?**

A. Yes. Although PSPS events are the last resort in a line of operational procedures SCE employs to mitigate fire risk, it must be part of our strategy as climate change increases the severity and duration of heat waves and other extreme weather events.

**14. Q: How often will PSPS events occur?**

A. A PSPS event is a last resort when we are faced with extreme weather conditions, and it is impossible to anticipate their frequency. Actual frequency of events will depend on various weather and environmental factors, and the decision will be made with the most accurate assessment of real-time information and situational awareness data available at the time.

**15. Q: Does SCE have the legal authority to shut off my power when deemed necessary?**

A. California Public Utilities Code § 399.2 and § 451 give SCE the authority to shut off power in emergency situations when necessary to protect public safety.

**16. Q: Will customers with solar panels installed still be shut off?**

A. Yes, when utility power is shut off, your solar energy system is designed to immediately shut down for safety reasons (to avoid "backfeeding" the grid; refer to Rule 21). A grid-tied solar electric system does not provide power during outages unless it includes a battery storage system and transfer switch. Your power will typically be reinstated moments after grid power is restored. However, you may need to manually reset your solar system's inverter back to service after your power is reinstated (most systems automatically reset after power is restored).

**17. Q: What are some preparedness tips for communities before, during, and after a PSPS event?**

- A. Ensuring you are prepared for wildfires will enable you to be more resilient and ready for a PSPS event. The California Department of Forestry and Fire Protection, or CAL FIRE, has a website focused on wildfire preparedness: <http://www.readyforwildfire.org/> To prepare specifically for a power outage, please visit our webpage ([on.SCE.com/outages](http://on.SCE.com/outages)) which contains great information for dealing with various issues before, during, and after an extended power outage.

**18. Q: Do other utilities have similar PSPS protocols?**

- A. Yes. San Diego Gas & Electric, for example, has utilized a similar protocol for a number of years.

*\* **Red Flag Warning Definition:** A red flag warning is a forecast warning issued by the United States National Weather Service to inform area firefighting and land management agencies that conditions are ideal for wildland fire combustion and rapid spread.*

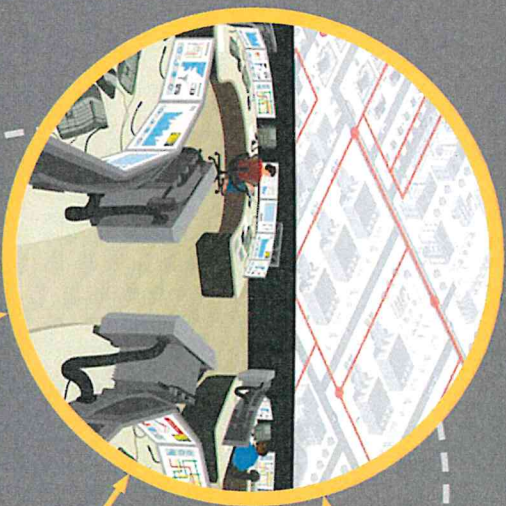
# | SITUATIONAL AWARENESS: FIRE AND SEVERE WEATHER MONITORING

## Situational Awareness Center

24/7 weather and situational awareness monitoring

Co-located with SCE's Emergency Operations Center and Watch Office

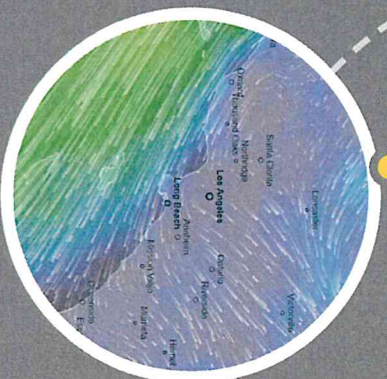
SCE meteorologists with electrical system and power delivery expertise



## High Resolution Weather Data Visualization

Visualization shows weather conditions at the circuit level

Alerts notify meteorologists and incident response teams when conditions reach pre-identified thresholds



## Weather Stations

Strategically deployed to collect high-resolution weather data

Enables more accurate forecasting at the circuit level



## Fire Monitoring Cameras

New, high-definition cameras installed on SCE telecom tower to monitor wildfire activity

Remote-controlled pan-tilt-zoom help to pinpoint wildfire locations and improve response times

# SCE HAS BEEN ADDRESSING THE NEW NORMAL

## OPERATIONAL PRACTICES

Restrict certain types of work and patrol lines in high fire risk areas after a circuit interruption during a Red Flag event. Reduce fire risk via a Public Safety Power Shutoff, where power is shut off in high fire risk areas during the most extreme weather conditions.

## SYSTEM HARDENING

Increase the use of fire-resistant poles, composite cross-arms, and covered conductor in high fire risk areas.

## ENGINEERING ADVANCES

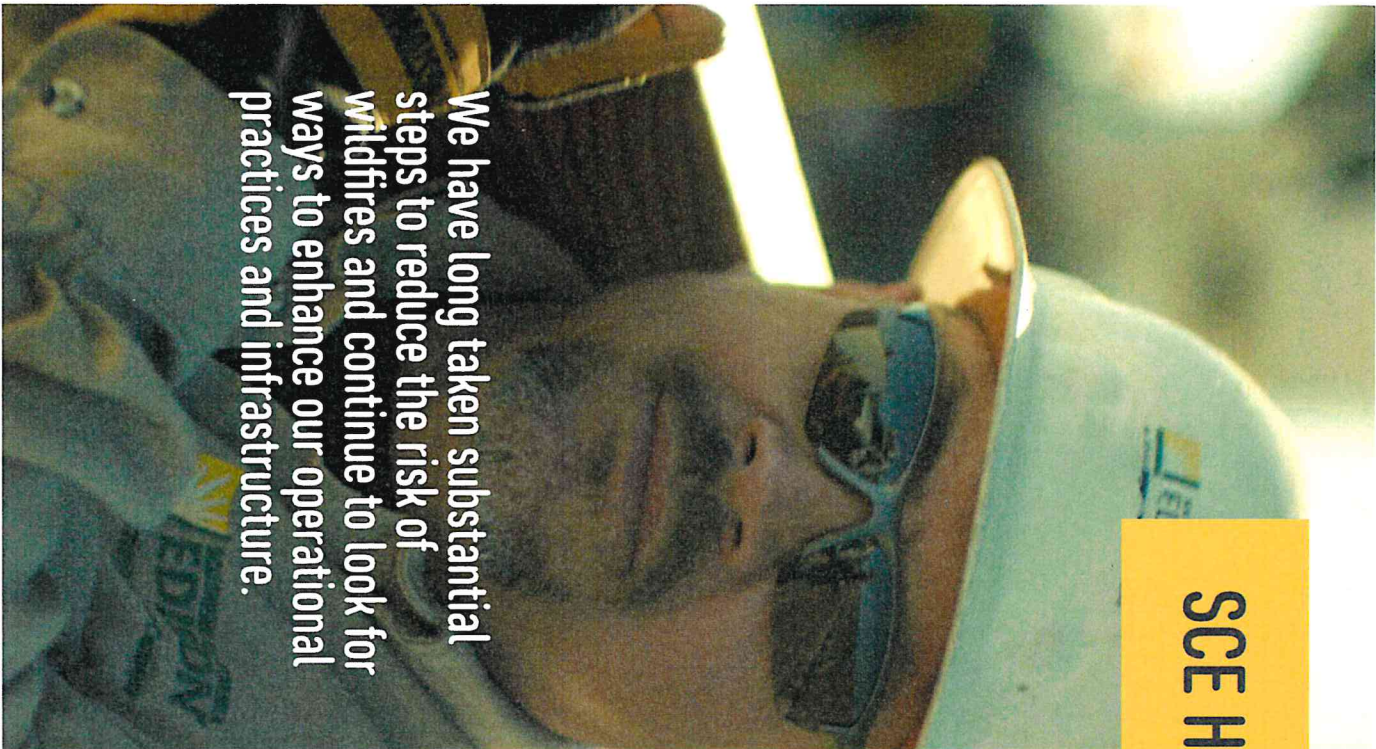
Evaluate design approaches and next-generation engineering technology to further enhance public safety.

## VEGETATION MANAGEMENT

Increase trimming and removal of trees may further mitigate safety risks posed by trees or debris.

## SITUATIONAL AWARENESS

Expand meteorological monitoring and forecasting capabilities by installing additional weather stations and high-definition cameras to help SCE and fire agencies to better prepare, mitigate, and respond to reported fires.



We have long taken substantial steps to reduce the risk of wildfires and continue to look for ways to enhance our operational practices and infrastructure.



# PUBLIC SAFETY POWER SHUTOFF

Last resort public safety measure to mitigate wildfire risk

4-7 DAYS AHEAD



When forecasts indicate extreme weather, SCE will begin predictive modeling to assess potential impact.

3 DAYS AHEAD



SCE monitors fire weather watch alerts from the National Weather Service (NWS) and continues to refine predictive models.

2 DAYS AHEAD



Extreme fire weather conditions forecasted and NWS Red Flag Warning issued. Coordinate with local government and agencies (e.g. emergency responders) first. Initiate customer notifications on possible power shutoff.

1 DAY AHEAD



Extreme fire weather conditions imminent; continued modeling and more accurate forecasts determine affected areas. Continue to coordinate and communicate with local government, agencies and customers of possible power shutoff.

POWER SHUTOFF



Extreme fire weather present and dangerous conditions validated by field resources; notify local government, agencies and customers of power shutoff.

POWER RESTORATION



Extreme fire weather subsides to safe levels and conditions validated by field resources; inspections and patrols of equipment begin, then power is restored to affected communities; agencies and customers notified of power restoration.

## PLANNING AND MONITORING

## OUTAGE

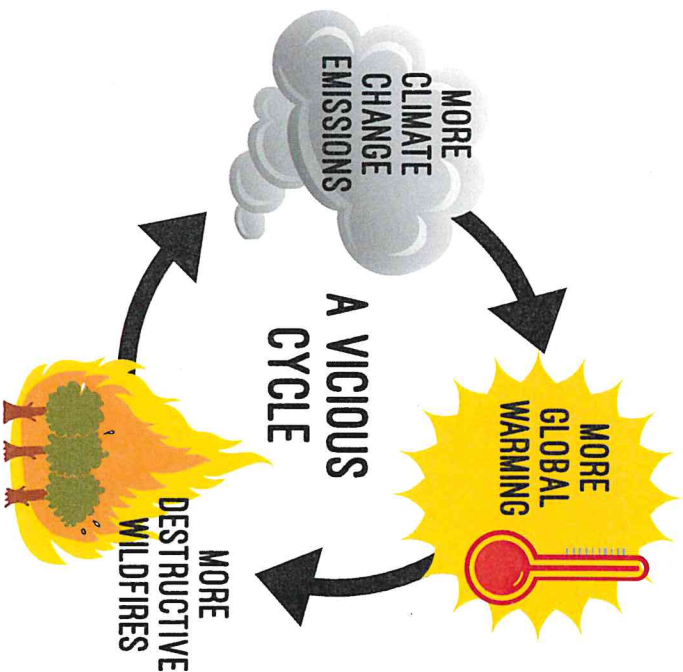
NOTE: Actual onset of weather conditions and other circumstances beyond our control may impact coordination and notification efforts

# THE NEW NORMAL: INCREASED WILDFIRE RISK IN THE FACE OF CLIMATE CHANGE

The 2017 wildfire season demonstrated the increasing threat of wildfires to California.

Wildfires threaten not only our homes, our lives and our economy, but also our fight against climate change.

Without action, things will only get worse: A hotter, drier California. A year-round fire season. A vicious cycle of increased climate change emissions. The new normal.



**CLIMATE CHANGE  
IS INCREASING THE  
SEVERITY AND DURATION  
OF HEAT WAVES AND  
OTHER EXTREME  
WEATHER EVENTS**

By mid-century, average temperatures in the Los Angeles region could rise by 4.3°F from the average recorded temperature between 1981 and 2000.

In that same timeframe, the acreage burned in Los Angeles area wildfires could increase 64 to 77 percent from the average of 1981 and 2000.

Decreased humidity means drier air and more dangerous Santa Ana winds which can now occur outside of the typical Santa Ana wind season.

In December 2017, the relative humidity near Southern California beaches fell as low as 1 to 9 percent—at or near record lows for many weather stations in this area.

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	August 27, 2018
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT:** Update on Fish Passage Improvement Project – Quiota Creek Crossing 5

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**RECOMMENDATION:**

The Board of Directors receive and file an update on the Fish Passage Improvement Project at Quiota Creek Crossing 5.

**SUMMARY:**

***Project Description:*** A 59-foot prefabricated bottomless arched culvert with four wing walls is planned to replace the current concrete low flow crossing at Quiota Creek Crossing 5. The project will remove a fish passage barrier and provide for unimpeded juvenile and adult fish passage for the endangered southern steelhead to NMFS designated critical habitat upstream. The project will also improve road safety and accessibility for the landowners and the public along S. Refugio Road.

***Project Location:*** The nearest town is Santa Ynez. Quiota Creek Crossing 5 is located off of Hwy 246 via Refugio Road 4.7 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 \$649,950, was issued a Notice to Proceed on 6/11/18.

***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, Bert Johnson, and Jemmi Irabon.

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

Status	Time
Notice to Proceed	6/11/2018
Construction start	7/23/2018
Refugio Road closure	7/23/2018
Contract Time (approximate to complete all work)*	4 months
Completion Date and Refugio Road reopened	12/5/2018
Number of construction work days (WD**) (expected)	42
Elapsed Time (WD to the Board mtg)	14
Remaining Time (WDs to complete all work)	28
Time Elapsed (WD) to Date (%)	33%
*Long construction period due to being tied to the QC X9 Project.	
**WD: Working Days.	

**Work Performed to Date:** PLC has completed all of the clearing and grubbing at the site, completely removed the low flow concrete crossing and damaged culvert, excavated both foundations, formed and poured both foundations and has begun stream grading and installing rock slope protections around the bridge foundations. ConTech has fabricated the arch-bridge system at Bethlehem Construction in Wasco, CA; product delivery and installation are expected on 8/28/18. The COMB consultant engineer and County engineers have been overseeing the project during all phases of the construction. The pre-project condition (Figure 1) and current construction efforts (Figures 2-9) are presented as Exhibits. The bridge was successfully fabricated in the fall of 2017 and has been stored at the pre-cast location since that time at no cost to COMB.

**Work Projected for Next Month:** Install the bridge, finish all streambed construction, and backfill the arch and wing-walls to allow for road construction.

**FINANCIAL IMPACT:**

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.

	<b>FY 2017-19</b>
Estimated Construction Cost	
Construction Estimate (*)	\$ 836,162
Project Management and Oversight	66,196
Operating Expenses	99,755
<b>Sub Total:</b>	<b>\$ 1,002,113</b>
Available Funding	
CDFW Grant (Operating and Construction)	\$ 893,287
Warren Act Trust Fund FY 2017-18	36,604
Warren Act Trust Fund FY 2018-19	52,500
<b>Sub Total:</b>	<b>\$ 982,391</b>
<b>Balance to be Funded by Member Agencies</b>	<b>\$ 19,722</b>
(*) Includes ConTech Invoice for Bridge System.	

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

<b>Estimated Project Costs (all):</b>	\$1,002,113	
<b>Available Funding (all):</b>	\$ 982,391	
<b>Total Expenditure to Date:</b>	<b>FY19</b>	<b>FY17+FY18</b>
ConTech Bridge (delivered + tax):		\$ 82,783
Geotechnical Services (Fugro) - Invoice all:		\$ 658
Resident Engineer - AECOM (fabrication) - Invoices all:		\$ 8,253
Materials Testing - Krazan (fabrication) - Invoices all:		\$ 5,970
PLC - Invoice 1:	\$ 158,850	
Resident Engineer - Gino Filippin (site construction) - Invoice 1:	\$ 1,556	
Arborist Services (Ken Knight) - Invoice 1:	\$ 1,300	
Bird Survey (Storror Environmental Services) - Invoice 1:	\$ 810	
Agua-Flo - Invoice 1:	\$ 312	
Tri-Co Reproduction - all invoices:	\$ 100	\$ 473
SWRCB SWPPP Fee:	\$ 221	
Project Site Surveying (Prober Land Surveying):		\$ 1,450
SB County Encroachment Permit Fee:		\$ 25,303
CDFW 1600 Permit Fee:		\$ 4,912
<b>Total Paid:</b>	<b>\$ 163,148</b>	<b>\$ 129,804</b>
<b>Summary:</b>		
<b>% Project Expenditures through 7/31/2018:</b>	29.2%	

**LEGAL CONCURRENCE:**

COMB legal counsel has reviewed and approved the project.

**ENVIRONMENTAL COMPLIANCE:**

All permits have been obtained and are being followed.

**LIST OF EXHIBITS:**

Construction photos:



**Figure 1:** Pre-project condition looking upstream.



**Figure 2:** Removal of the concrete low flow crossing along S. Refugio Road.



**Figure 3:** Excavations for the bridge foundations.



**Figure 4:** Forming the bridge foundations.



**Figure 5:** Foundation rebar placement.



**Figure 6:** Pouring the foundations.



**Figure 7:** Completed foundation under water for better curing.





**Figure 8:** Streambed work, installing the upstream riffle.



**Figure 9:** Streambed work, installing the rock slope protection under the bridge.

# CACHUMA OPERATION AND MAINTENANCE BOARD

## BOARD MEMORANDUM

**DATE:** August 27, 2018  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE: MONTHLY FISHERIES DIVISION REPORT**

### HIGHLIGHTS:

- Reclamation continued to deliver approximately 2 cfs to Hilton Creek at the Lower Release Point (HCEBS, gravity flow) until August 1<sup>st</sup> then switched to the Upper Release Point (HCWS, pumped flow) flow at 3.5 cfs which is sustaining the *O. mykiss* population in the creek.
- The 2018 WR 89-18 releases started on 8/6/18 and RPM 6 monitoring is being conducted accordingly.
- Construction for the Quiota Creek Crossing 9 will start soon.

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 Cachuma Project Biology Staff (CPBS) 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 CPBS 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 Report.

***Snorkel surveys:*** Snorkel surveys for *O. mykiss* and non-native fish are conducted three times a year. The first survey at the end of the spring has been completed. 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.

**WR 89-18 Release Monitoring:** BiOp required monitoring for the WR 89-18 releases (RPM 6) started prior to the release as requested by USBR and will continue until after the releases are stopped. WR 89-18 releases began on 8/6/18 at approximately 8 AM and are conducted by the Santa Ynez River Water Conservation District in collaboration with USBR. As requested by USBR and approved by NMFS, migrant trapping is being conducted at one location (just downstream of the Long Pool of the Lower Santa Ynez River mainstem) for the first approximately two weeks of the release. As of 8/21/18, no *O. mykiss* have been caught in the trap.

### **Tributary Project Updates:**

**Quiota Creek Crossing 4:** This project was successfully completed on 12/21/16. The project was featured in the Pacific Coastal Salmon Recovery Fund FY2017 Report to Congress (Exhibit 1). The Report summarizes restoration projects across the nation.

**Quiota Creek Crossing 5:** As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. COMB was awarded the grant and the COMB Board accepted the grant by resolution on 5/22/17. The Board approved by resolution expenditures of funds for the project on 6/26/17. All permits and final designs for the project have been obtained and approved. The construction of the project was solicited for competitive bidding in conjunction with the Quiota Creek Crossing 9 Project. A contract has been awarded to Peter Lapidus Construction and construction began on 7/23/18. A separate Board memo is provided with details of the ongoing project.

**Quiota Creek Crossing 8:** Funding for this project have been applied for through three separate grant programs. The initial grant was submitted by the County to Caltrans that required a Cooperative Agreement between the County and COMB. The agreement was discussed at the 5/4/16 Fisheries Committee meeting with approval by the Board on 5/23/16 to move forward with the project and the Cooperative Agreement. The County Board of Supervisors approved the Cooperative Agreement on 7/12/16. With a fully executed Cooperative Agreement, the County submitted a CalTrans Federal Highway Administration (CT-FHWA) grant application to fund the project and CalTrans approved the funding for a full bridge replacement. SBCAG approved the project on 11/17/16. A Professional Service Agreement (PSA) for COMB with the County to manage the project was approved by the Board during the 3/27/17 Board meeting and was fully executed on 5/16/17. The Request for Authorization (RFA) has been sent by the County to Caltrans to begin grant expenditures with no response. Caltrans has informed the County that the Federal prioritization for rural bridge replacement projects (the County's pending grant funding) has been stalled due to being 100% oversubscribed with no additional federal allocation, hence the list of truly awarded projects will not be addressed until 2020, suggesting this funding opportunity is on hold.

The second funding opportunity is through a CDFW-FRGP grant application 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. On 5/15/18, the CDFW-FRGP Technical Grant Review Team visited the site. They evaluated the technical aspects of the project, scored it, and then will provide their recommendations to the Director of CDFW. The grant award notices will be given during February 2019.

Finally, a third funding opportunity is through a CDFW-Prop 1 grant application that was submitted on 6/12/18 for the exact same project and same amount of money and construction match. If a CDFW sponsored grant is received, the other application will be withdrawn. The Prop-1 grant award notice is expected sometime around the beginning of the year.

**Quiota Creek Crossing 9:** COMB was awarded a CDFW-FRGP grant for the Crossing 9 Project for \$993,121 with a \$50,000 COMB construction match. The project is tentatively scheduled for construction in the fall of this year pending permit acquisition and design approval. All permits application for this project have been submitted and are anticipated no later than August. Design approval has been received from CDFW and the County. We are awaiting issuance of the project's Encroachment Permit from the County and the USACE 404 Permit, expected soon. A contract was awarded to Peter Lapidus Construction and construction is tentatively scheduled to begin on 9/3/18, pending final permit acquisition. Once construction begins, a separate Board memo will be provided each month throughout the construction of the project.

**Salsipuedes Creek – Jalama Road Fish Ladder:** There has been no action on the suggested repairs to this project.

**El Jaro Creek – Cross Creek Ranch Fish Passage Facility:** There has been no action on the suggested repairs to this project.

### **Hilton Creek Watering System (HCWS) and Emergency Backup System (HCWBS) Repairs and Upgrades plus the Hilton Creek:**

**HCEBS:** The HCWS and HCEBS are owned, operated and maintained by Reclamation. The HCEBS was completed at the end of January 2016. With this system fully operational, Reclamation has now been working on needed repairs to the HCWS with success on getting the pumping system operational and the HCEBS connected to the HCWS to operate if the HCWS shuts down. The HCWS was primed and started by Reclamation and has continually been operational since 8/2/18 discharging water initially to the Upper Release Point (URP), then the Lower Release Point (LRP) and then finally back to the URP at approximately 3.5 cfs. Work is still needed on the HCEBS to meet complete operational design.

**Testing of the HCEBS in Association with the HCWS:** USBR performed improvements to the HCEBS (programming and electrical) then tested the system on 8/7/18 and 8/8/18 to assure functionality as a backup water delivery system to Hilton Creek if the HCWS shut off for whatever reason. USBR was satisfied with the test results and is moderately confident that there will be uninterrupted flow delivered to Hilton Creek at the URP using the diesel pumps of the HCEBS if the HCWS turns off.

### **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 Reclamation'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 Reclamation 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, and the most recent release 8/21/17 - 11/8/17. 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. There have been no releases from the Fish Passage Supplementation Account (FPSA). Determination of critical drought and the associated accounting and possible usage of the AMA and FPSA during that period have not been finalized and approved (or if those accounts are now replenished from WY2017's runoff) by NMFS and USBR. Therefore they are not reflected in Table 1.

**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	0	3,200
<b>Adaptive Management</b>	500	149	351
<b>Fish Rearing***</b>	5,484	5,484	0
<b>Project Yield</b>		17,761	
<b>Total:</b>	<b>9,184</b>	<b>23,394</b>	<b>3,551</b>
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 7/31/18.			
*** 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 Reclamation report) and the Annual Monitoring Summaries (the COMB report). Staff has been providing information to Reclamation as requested in support of re-consultation and other operational requests.

**Outreach and Training:** Staff continues to work 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.

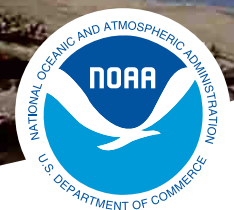
**Consultant Activity Summary:**

**HDR Fisheries Design Center** (Mike Garelo) – Design, reporting and oversight work for the Quiota Creek Crossings 5, 8 and 9 projects.

**List of Exhibits:**

**Exhibit 1:** Pacific Coastal Salmonid Recovery Fund FY 2017 Report to Congress.

# Pacific Coastal Salmon Recovery Fund FY 2017 Report to Congress



# An introduction to the Pacific Coast Salmon Recovery Fund

Today, 28 salmon species<sup>1</sup> face extinction on the West Coast and are protected under the Endangered Species Act (ESA). Others have seen drastic reductions in their populations. Many of these species are of profound cultural importance to West Coast Native American Tribes, and their recovery is critical to meeting Federal obligations as stewards of Tribal treaty and trust resources.



Chinook salmon. Photo: NOAA Fisheries

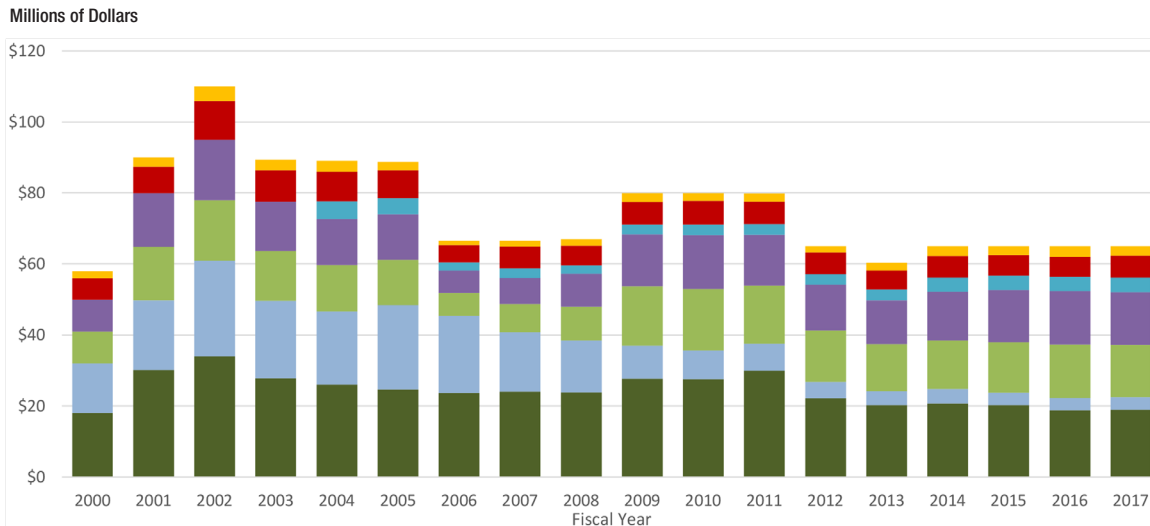
<sup>1</sup>In this report, the 28 “species” includes evolutionarily significant units and distinct population segments and the term “salmon” is inclusive of both salmon and steelhead.

In 2000, Congress established the Pacific Coastal Salmon Recovery Fund (PCSRF) to reverse the decline of West Coast salmon populations in California, Oregon, Washington, Alaska, and Idaho. PCSRF is a competitive grants program through which the National Oceanic and Atmospheric Administration’s (NOAA’s) National Marine Fisheries Service (NMFS) administers funding to States and Tribes to protect, conserve, and restore these populations. In addition to these efforts, the program plays a vital role in supporting Tribal treaty fishing rights and subsistence fishing traditions.

PCSRF has awarded an average of \$75 million annually since 2000 (Exhibit 1). With this funding, States and Tribes have leveraged additional resources to collectively implement more than 13,200 projects to conserve West Coast salmon. Projects have restored and improved access to important spawning and rearing habitats. PCSRF-funded activities also include robust planning and monitoring programs that inform strategic prioritization of projects and track salmon conservation accomplishments.

## SINCE 2000, PCSRF HAS:

- Restored, created, or protected over 1,090,000 acres of salmon habitat
- Opened over 10,550 miles of streams to spawning fish
- Received \$1.35 billion in Congressionally appropriated funds
- Leveraged over \$1.69 billion in non-PCSRF contributions



State/Tribe	Total Awards
Columbia River Tribes	\$44.1
Pacific Coastal Tribes	\$119.9
Idaho	\$48.2
Oregon	\$231.2
California	\$240.5
Alaska	\$227.9
Washington	\$438.8
<b>Total (rounded to the nearest \$0.1M)</b>	<b>\$1,350.6</b>

Exhibit 1: PCSRF Awards to States and Tribes (\$Millions)

# Measuring Progress & Tracking Funding

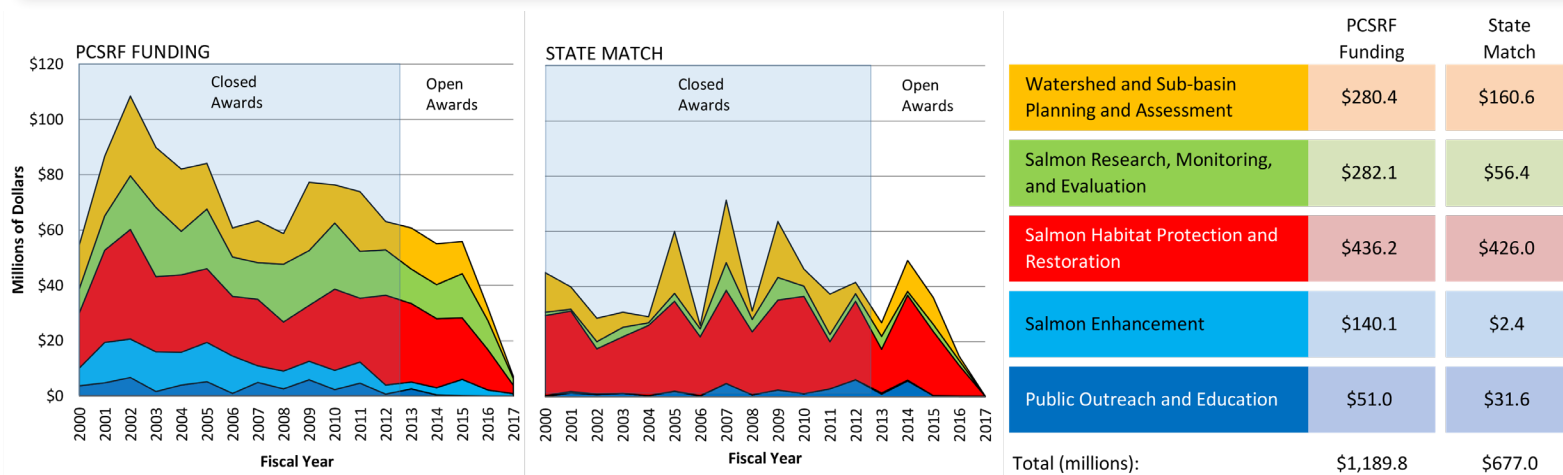
All PCSRF recipients report on a standard list of metrics for all projects (Exhibit 2). In aggregate, these metrics provide estimates of program-wide accomplishments funded with PCSRF, State-matching, and other partner funds. PCSRF's project and performance metrics database is available online at: [www.webapps.nwfsc.noaa.gov/pcsrp](http://www.webapps.nwfsc.noaa.gov/pcsrp)

Output	Performance Measure	FY2017	FY2000-FY2017
Instream Habitat Projects	Stream Miles Treated	253	2,737
Wetland Habitat Projects	Acres Created	0	2,115
	Acres Treated	243	29,921
Estuarine Habitat Projects	Acres Created	0	2,353
	Acres Treated	10	5,392
Land Acquisition Projects	Acres Acquired or Protected	1,879	270,769
	Stream Bank Miles Acquired or Protected	33	5,211
Riparian Habitat Projects	Stream Miles Treated	202	11,135
	Acres Treated	2,064	122,981
Upland Habitat Projects	Acres Treated	2,510	645,409
Fish Passage Projects	Number of Barriers Removed	159	3,357
	Stream Miles Opened	1,004	10,554
	Number of Fish Screens Installed	36	1,962
Hatchery Fish Enhancement Projects	Number of Fish Marked for Management Strategies	22,082,668	362,414,796
Research, Monitoring & Evaluation Projects	Miles of Stream Monitored	16,820	507,525

**Exhibit 2: Summary of PCSRF Program-wide Performance Measures, FY 2000-2017†**

†Reflects annual and accumulated totals at the time database queried for report (December 6, 2017).

**Exhibit 3 highlights funding allocations by project category. Throughout the PCSRF Program's existence, habitat restoration and critical monitoring have remained the central emphasis of the program. While other project categories contribute to PCSRF goals, implementing on-the-ground restoration actions is vital to salmon recovery, and consistent monitoring ensures PCSRF investments are effectively meeting the needs of listing species.**



**Exhibit 3: PCSRF and State Funding Allocations by Project Type††**

†† The sum of total funding allocated across project types does not equal the total of PCSRF awards presented in Exhibit 1. Not all awarded funds have been allocated to projects for the more recent fiscal years.



# PCSRF at Work

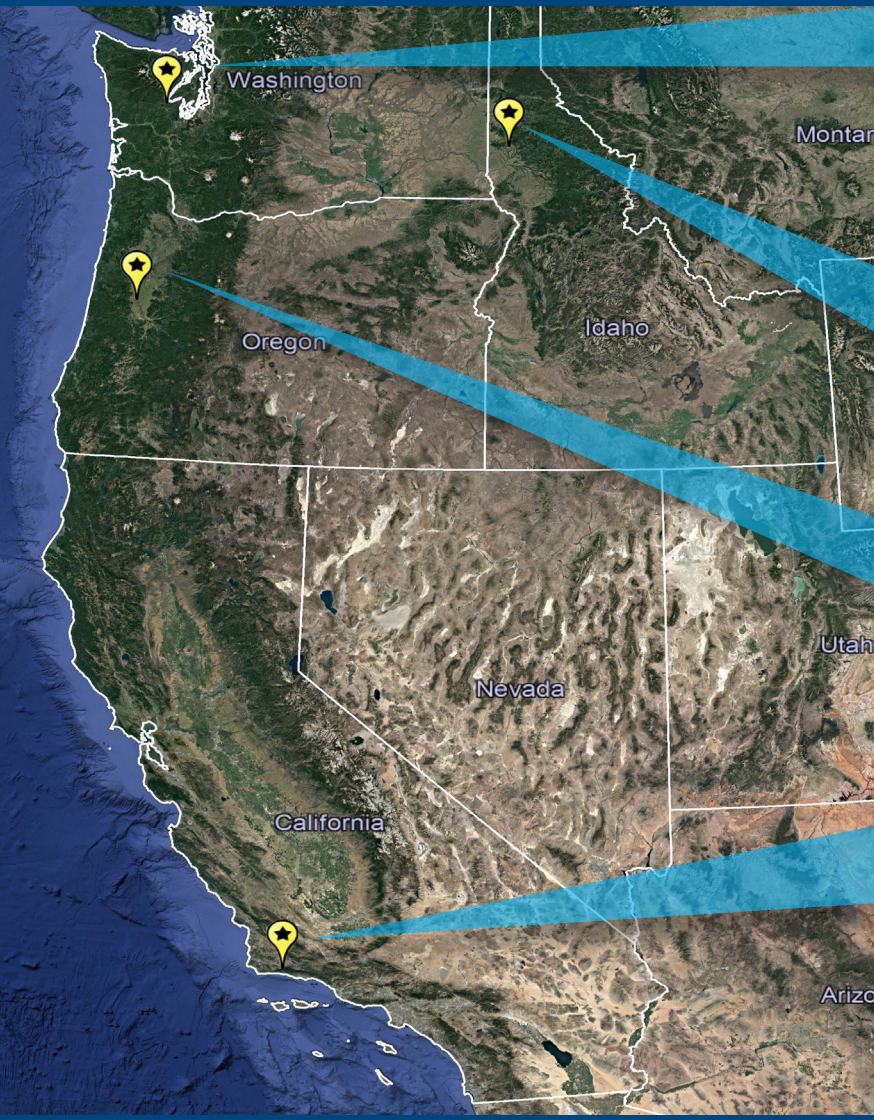


**For additional project information:**

[www.westcoast.fisheries.noaa.gov/protected-species/salmon-steelhead/recovery-planning-and-implementation/pacific-coastal-salmon-recovery-fund.html](http://www.westcoast.fisheries.noaa.gov/protected-species/salmon-steelhead/recovery-planning-and-implementation/pacific-coastal-salmon-recovery-fund.html)

**ALASKA**

**Project:** Restoring Logged Watersheds in SE Alaska  
**PCSRF Funds:** \$442,602  
**Matching & Other Funds:** \$932,043  
**Targeted Species:** Un-listed Coho, Chum, Pink, Steelhead



**WASHINGTON**

**Project:** Skokomish Estuary Restoration  
**PCSRF Funds:** \$130,439  
**Matching & Other Funds:** \$8,065,026  
**Targeted Species:** Threatened Hood Canal Chum, Puget Sound Chinook, Puget Sound Steelhead

**IDAHO**

**Project:** Mason Meadow Restoration  
**PCSRF Funds:** \$75,000  
**Matching & Other Funds:** \$150,000  
**Targeted Species:** Threatened Snake River Steelhead

**OREGON**

**Project:** Harkens Lake Restoration - Phase 2  
**PCSRF Funds:** \$227,974  
**Matching & Other Funds:** \$185,277  
**Targeted Species:** Threatened Upper Willamette River Chinook

**CALIFORNIA**

**Project:** Fish Passage Improvement at Crossing 4, Quiota Creek  
**PCSRF Funds:** \$937,839  
**Matching & Other Funds:** \$178,201  
**Targeted Species:** Endangered Southern California Steelhead

# Reversing species' declines

Of the 20 salmon species with sufficient monitoring data to evaluate trends and based on the most recent species status reviews completed in 2016, two species continue to exhibit a declining trend. Of the others, 13 are exhibiting stable trends in abundance and five are exhibiting increasing trends. Nearly all of these species were listed during the 1990s, in part, due to alarming declines in abundance. While most species remain below their recovery goals, the sustained stable and increasing trends represent noteworthy successes in preventing extinctions and dramatic turnarounds from the numbers we witnessed in the 1990s. Changes in ocean conditions, harvest management, hatchery practices, hydropower dam operations, and habitat restoration efforts have all contributed to the improvements in status.

## Investing in salmon restoration spurs economic growth for local communities

Salmon restoration benefits fish populations and their habitats, but the value of these investments goes far beyond recovering threatened and endangered species. The financial investments in habitat restoration contribute to local communities and their economies. In fact, the “restoration economy” in the United States employs approximately 126,000 workers and annually generates approximately \$9.5 billion in economic output.<sup>i</sup> This activity indirectly “supports an additional 95,000 jobs and \$15.0 billion in economic output through indirect (business-to-business) linkages and increased household spending.”<sup>i</sup>



Photo: Mason Conservation District

Several studies indicate that a \$1.0 million investment in watershed restoration, of which PCSRF and State matching funds play a significant role, creates between 13 and 32 jobs and \$2.2 and \$3.4 million in economic activity (Exhibit 4).<sup>ii, iii, iv</sup>

Every dollar invested in salmon restoration travels through the economy in several ways. PCSRF State and Tribal grantees contract with local watershed groups, conservation agencies, land trusts, and other entities to manage habitat restoration projects. In turn, those agencies contract with local businesses and suppliers to carry out the work.

Investing in restoration also provides communities with longer-term economic stability, including future job creation in rebuilt fisheries and coastal tourism and higher property values.<sup>ii</sup> In fact, an analysis of three NOAA-funded coastal restoration projects found that each dollar invested returns more than \$15 in long-term net economic benefit.<sup>v</sup>

The jobs and economic benefits of salmon restoration activities are largely realized in the local and rural communities, many of which face economic challenges. The vast majority of habitat restoration investments are spent in the state in which the project sponsor is located (approximately 90 percent), and in non-metropolitan counties over 60 percent is spent within the county.<sup>iii, vi</sup> These economic benefits are often localized and provide important stability to economically distressed communities.<sup>iii, vi</sup>

Selected Project Types	Definition	Jobs/\$1M <sup>ii</sup>	Jobs/\$1M <sup>iii</sup>	Economic Output/\$1M <sup>iii</sup>
<b>In-stream</b>	Enhancing stream habitat and function	-	14.7	\$2,203,851
<b>Riparian</b>	Restoring riparian habitat function, enhancing and restoring native riparian vegetation	19.0	23.1	\$2,310,128
<b>Wetland</b>	Restoring wetland and estuarine habitat	-	17.6	\$2,259,422
<b>Reconnection</b>	Restoring the flow of water to coastal systems and floodplains	14.6	-	-
<b>Fish Passage</b>	Removing barriers to fish passage (culverts and dams), screening to protect fish from water withdrawals	18.2	15.2	\$2,240,281
<b>Upland</b>	Managing agricultural water, juniper, and noxious weeds	-	15.0	\$2,476,290
<b>Others</b>	Undertaking multiple activities in one comprehensive restoration project	-	14.7	\$2,270,862
	<b>Estimated Average Across All Project Types</b>	<b>17.0</b>	<b>16.3</b>	<b>\$2,311,468</b>

Exhibit 4: Economic Effects per \$1.0 Million Invested in Forest and Watershed Restoration Projects

# References

- <sup>i</sup> BenDor T, Lester TW, Livengood A, Davis A, Yonavjak L. 2015. Estimating the Size and Impact of the Ecological Restoration Economy. PLoS ONE 10(6): e0128339. doi:10.1371/journal.pone.0128339.
- <sup>ii</sup> Edwards, P.E.T., A.E. Sutton-Grier and C.E. Coyle. 2013. Investing in nature: Restoring coastal habitat blue infrastructure and green job creation. Marine Policy 38:65-71.
- <sup>iii</sup> Nielsen-Pincus, M., and C. Moseley. 2013. The Economic and Employment Impacts of Forests and Watershed Restoration. Restoration Ecology 21 (2), 207-214.
- <sup>iv</sup> Cullinane Thomas, Catherine; Huber, Christopher; Skrabis, Kristin; and Sidon, Joshua. 2016. Estimating the economic impacts of ecosystem restoration—Methods and case studies. U.S. Geological Survey Open-File Report 2016–1016, 98 p. <http://dx.doi.org/10.3133/ofr20161016>.
- <sup>v</sup> Conathan, M., J. Buchanan, and S. Polefka. 2014. The economic case for restoring coastal ecosystems. Center for American Progress and Oxfam America. April.
- <sup>vi</sup> Bonner, K., and M. Hibbard. 2002. The economic and community effects of Oregon Watershed Enhancement Board Investments in Watershed Restoration. University of Oregon, Institute for a Sustainable Environment, Ecosystem Workforce Program, Briefing Papers.

Cover photo: Mason Conservation District.



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**An online version of this Report is available at: <http://www.westcoast.fisheries.noaa.gov>**

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	August 27, 2018
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

**SUBJECT:**                    **Lake Cachuma Oak Tree Restoration Program**

**SUMMARY:**

***Maintenance***

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2018 to the present (1/1/18 – 8/27/18, Table 1). Labor and expenses for the entire fiscal year (July 2017 - June 2018) 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, which sets the mitigation number for the program. The 2017 Annual Inventory and Fiscal Year 2017-2018 Financial Report has been reviewed and approved by the Lake Cachuma Oak Tree Committee with suggested recommendations for the upcoming fiscal year.

**Table 1:** Cachuma Oak Tree Program completed tasks since January, 2018.

	Jan 2018	Feb 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018
<b>Year 9 Oaks (2016-2017)</b>	Irrigated Weeded	Mulched			Irrigated Weeded	Weeded Roads	Irrigated Weeded	
<b>Year 8 Oaks (2015-2016)</b>		Mulched	Mulched	Mulched Weeded	Irrigated Weeded	Weeded Roads	Irrigated Weeded	Irrigated Weeded
<b>Year 7 Oaks (2014-2015)</b>			Mulched Deer Cages	Mulched Weeded		Irrigated Weeded Weeded Roads	Irrigated Weeded	Irrigated Weeded
<b>Year 6 Oaks (2010-2011)</b>	Deer Cages	Deer Cages				Weeded Roads	Irrigated*	
<b>Year 5 Oaks (2009-2010)</b>						Weeded Roads	Irrigated*	
<b>Year 4 Oaks (2008-2009)</b>					Deer Cages	Weeded Roads	Irrigated*	
<b>Year 3 Oaks (2007-2008)</b>					Deer Cages	Weeded Roads	Irrigated*	
<b>Year 2 Oaks (2006-2007)</b>						Weeded Roads	Irrigated*	
<b>Year 1 Oaks (2005-2006)</b>						Weeded Roads	Irrigated*	
*Stressed trees irrigated								

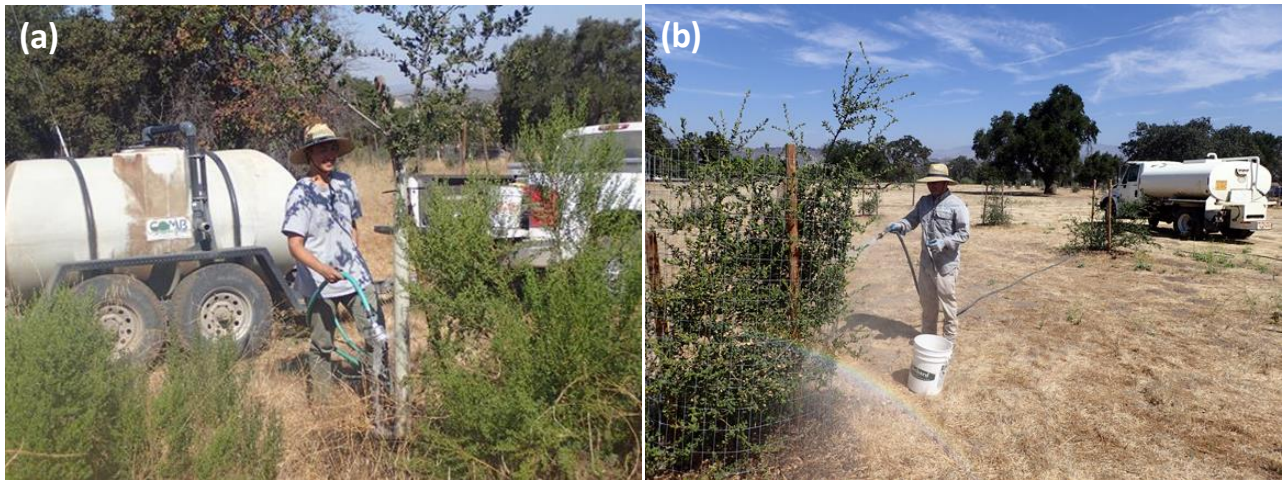
The Fisheries Division staff continues to use two teams to irrigate in order to keep pace with the watering regimen (see photos in Exhibit 1). The Year 7 and Year 8 trees at Bradbury Dam and Storke Flat have been irrigated. Hand weeding is still occurring but to a lesser extent since weed growth is minimal during this time of year. Another round of irrigation has begun on the Year 9 trees at Bradbury Dam and the Santa Barbara County Park.

**RECOMMENDATION:**

For Board information only.

**LIST OF EXHIBITS:**

**1. Photos of oak tree irrigation.**



**Exhibit 1:** Lake Cachuma Oak Tree Restoration Program showing (a) irrigation of Year 7 trees using the small water trailer truck near Bradbury Dam and (b) irrigation of Year 9 trees using the large water truck at the Lake Cachuma SB County Park.

**CACHUMA OPERATION AND MAINTENANCE BOARD**

**METERED USE REPORT FOR JULY 2018**

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		242.13	18+62	G. WEST	155.68
Boundary Meter - West		(2.99)	78+00	Corona Del Mar FILTER Plant	957.78
			122+20	STOW RANCH	0.00
				Raytheon (SWP) (Warren Act Contract)	(3.00)
				Morehart (SWP) (Warren Act Contract)	(5.00)
				SWP CREDIT (Warren Act Contract)	(949.78)
			<b>TOTAL</b>		<b>155.68</b>
			<b>MONTECITO WATER DISTRICT</b>		
			260+79	BARKER PASS	96.87
			386+65	MWD YARD	89.86
			487+07	VALLEY CLUB	5.76
			499+65	E. VALLEY-ROMERO PUMP	206.47
			510+95	MWD PUMP (SWD)	15.06
			510+95	ORTEGA CONTROL	4.35
			526+43	ASEGRA RD	7.09
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	0.00
				SWP CREDIT (Warren Act Contract)	(425.47)
			<b>TOTAL</b>		<b>0.00</b>
			<b>CITY OF SANTA BARBARA</b>		
			CATER	INFLOW	1651.35
			Gibraltar	PENSTOCK	(178.06)
			CATER	SO. FLOW	(890.56)
			Sheffield	SHEF.LIFT	190.03
				SWP (Warren Act)	(681.72)
				La Cumbre Mutual SWP (Warren Act)	(91.04)
			<b>TOTAL</b>		<b>0.00</b>
			<b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b>		
			COUNTY PARK, ETC		3.05
			<b>TOTAL</b>		<b>3.05</b>
			<b>BREAKDOWN OF DELIVERIES BY TYPE:</b>		
			STATE WATER DELIVERED TO LAKE		1160.00
			STATE WATER TO SOUTH COAST (including from storage)		(2395.15)
			<b>METERED DIVERSION</b>		<b>158.73</b>
<b>SWP CREDIT (Warren Act Contract)</b>		<b>(239.14)</b>			
<b>TOTAL</b>		<b>(0.00)</b>			
Note:					
	Meter reads were taken on:	7/31/2018			

**17-18 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF JULY 2018 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

	<b>MONTH</b>	<b>WYTD</b>
<b>SCC WATER PRODUCTION:</b>		
Cachuma Lake (Tec. Diversion)	2,529.4	14,561.8
Tecolote Tunnel Infiltration	46.7	926.8
Cachuma Lake (County Park)	3.1	17.3
<b>Subtotal - Water Production</b>	<b>2,579.2</b>	<b>15,505.9</b>
<b>SCC WATER DELIVERIES:</b>		
State Water Diversion	2,395.2	12,176.1
Cachuma Diversion	158.7	2,777.4
So. Coast Storage gain/(loss)	53.9	20.7
<b>Subtotal - Water Deliveries</b>	<b>2,607.8</b>	<b>14,974.2</b>
<b>Total Water Production</b>	<b>2,579.2</b>	<b>15,505.9</b>
<b>Total Water Deliveries</b>	<b>2,607.8</b>	<b>14,974.2</b>
<b>Difference = Apparent Water Loss <sup>(9)</sup></b>	<b>(28.6)</b>	<b>531.6</b>
% Apparent Water Loss	-1.11%	3.43%

**SCC APPARENT WATER LOSS ALLOCATION <sup>(2)</sup>**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>TOTAL</b>
<b>CURRENT MONTH CHARGE / (ADJUSTMENT) <sup>(2)</sup></b>					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	(0.4)	0.0	0.0	0.0	(0.4)
Subtotal Cachuma Project <sup>(9)</sup>	<b>(0.4)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>(0.4)</b>
(+) State Water Project <sup>(9)</sup>	(2.2)	(8.8)	(11.2)	(6.0)	(28.2)
<b>Total <sup>(9)</sup></b>	<b>(2.6)</b>	<b>(8.8)</b>	<b>(11.2)</b>	<b>(6.0)</b>	<b>(28.6)</b>
<b>WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)</b>					
M&I	9.9	0.0	0.0	37.0	46.9
Agriculture	7.0	0.0	0.0	49.1	56.2
Subtotal Cachuma Project	<b>17.0</b>	<b>0.0</b>	<b>0.0</b>	<b>86.1</b>	<b>103.1</b>
(+) State Water Project	18.1	174.5	206.9	29.3	428.8
<b>Total</b>	<b>35.1</b>	<b>174.5</b>	<b>206.9</b>	<b>115.4</b>	<b>531.8</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	0.0	0.0	0.0	0.0	3.1	3.1
Agricultural	155.7	0.0	0.0	0.0	N/A	155.7
<b>Subtotal Project Water Use</b>	<b>155.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3.1</b>	<b>158.7</b>
(+) Apparent Water Loss	(0.4)	0.0	0.0	0.0	N/A	(0.4)
(+) Evaporative Loss <sup>(3)</sup>	21.4	83.3	21.1	0.4	0.0	126.3
<b>Total Project Water Charge</b>	<b>176.7</b>	<b>83.3</b>	<b>21.1</b>	<b>0.4</b>	<b>3.1</b>	<b>284.7</b>
<b>WATER YEAR-TO-DATE</b>						
Water Usage						
M&I	1,097.3	0.0	0.0	289.3	17.3	1,403.9
Agricultural	989.9	0.0	0.0	385.7	N/A	1,375.6
<b>Subtotal Project Water Use</b>	<b>2,087.2</b>	<b>0.0</b>	<b>0.0</b>	<b>675.1</b>	<b>17.3</b>	<b>2,779.5</b>
(+) Apparent Water Loss	17.0	0.0	0.0	86.1	N/A	103.1
(+) Evaporative Loss <sup>(3)</sup>	183.0	456.7	115.8	20.0	0.8	776.3
<b>Total Project Water Charge (*)</b>	<b>2,287.1</b>	<b>456.7</b>	<b>115.8</b>	<b>781.1</b>	<b>18.1</b>	<b>3,658.8</b>

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

**17-18 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF JULY 2018 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 - 10/1/2017</b>	3,088.0	3,988.0	1,011.0	800.0	16.0	8,903.0
Transfers/Adjustment <sup>(4)</sup>	30.0	0.0	0.0	0.0	0.0	30.0
<b>(-) Project Water Charge (WYTD)</b>	<b>2,287.1</b>	<b>456.7</b>	<b>115.8</b>	<b>781.1</b>	<b>16.0</b>	<b>3,656.7</b>
<b>Balance Carryover Water</b>	<b>830.9</b>	<b>3,531.3</b>	<b>895.2</b>	<b>18.9</b>	<b>0.0</b>	<b>5,276.3</b>
<b>Current Year Allocation <sup>(5)</sup></b>	<b>3,728.0</b>	<b>3,311.0</b>	<b>1,060.0</b>	<b>1,125.0</b>	<b>1,060.0</b>	<b>10,284.0</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>2.1</b>	<b>2.1</b>
<b>Net Allocation Available Before Adjustments</b>	<b>3,728.0</b>	<b>3,311.0</b>	<b>1,060.0</b>	<b>1,125.0</b>	<b>1,057.9</b>	<b>10,281.9</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>	264.0	176.0	176.0	118.0	(734.0)	0.0
Transfers/Adjustment <sup>(7)</sup>	100.0	0.0	0.0	0.0	0.0	100.0
<b>Balance Current Year Allocation</b>	<b>4,092.0</b>	<b>3,487.0</b>	<b>1,236.0</b>	<b>1,243.0</b>	<b>323.9</b>	<b>10,381.9</b>
<b>Total Cachuma Project Water Available</b>	<b>4,922.9</b>	<b>7,018.3</b>	<b>2,131.2</b>	<b>1,261.9</b>	<b>323.9</b>	<b>15,658.2</b>

**Footnotes**

- (1) Water Year = October 1 through September 30
- (2) Based on an correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted-for water loss based on lake conditions
- (3) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (4) Adjustment for GWD November/December 2016 Evaporation Amount charged in error (+30AF).
- (5) Per USBR, 40% Allocation to Member Agencies, effective 10/1/17
- (6) Per SWP Exchange Agrmt GWD received 134 AF; City of SB received 89 AF; MWD received 89 AF and CVWD received 60 AF from ID#1 in July 2018.
- (7) Transfer per Contract for Exchange Water with Thomas B. Bishop Company and GWD (100 AF)
- (8) Memo only - State Water Deliveries to Lake Cachuma for July 2018 (Total =1160 AF): MWD 256 AF; CVWD 170 AF GWD 384 AF (Morehart 5 AF); City of S.B. 256 AF; and LaCumbre 86 AF: (Raytheon 3 AF)
- (9) July 2018 - Includes a credit adjustment to Apparent Water Loss (AWL). AWL is attributed to system loss, meter discrepancies and change in water storage. COMB staff monitors trends for potential corrective action or accounting adjustment.



**SUMMARY: APPARENT WATER LOSS ALLOCATION**  
**July 2018**

	<b>Lauro &amp; Cater Loss (LE + CTPL)</b>	<b>Ortega Toe Drain (OTD)</b>	<b>Use Area 1</b>	<b>Use Area 2</b>	<b>Use Area 3</b>	<b>Use Area 4</b>	<b>Total (AF)</b>	<b>Rounded Total (AF)</b>
<b>GWD</b>	0.6	0.0	-1.7	-1.6	0.0	0.0	-2.6	<b>-2.6</b>
<b>City of SB</b>	4.4	0.0	-0.9	-11.8	-0.4	0.0	-8.8	<b>-8.8</b>
<b>MWD</b>	2.8	0.5	-0.6	-7.4	-1.0	-5.5	-11.2	<b>-11.2</b>
<b>CVWD</b>	1.6	0.5	-0.3	-4.1	-0.5	-3.1	-6.0	<b>-6.0</b>
<b>Total</b>	9.3	1.0	-3.5	-24.9	-1.9	-8.6	-28.6	<b>-28.6</b>

July 2018 - Includes a credit adjustment to Apparent Water Loss (AWL). UWL is attributed to system loss, meter discrepancies and change in water storage. COMB staff monitors trends for potential corrective action or accounting adjustment.



**COMB STATE WATER PROJECT ACCOUNTING - SOUTH COAST ONLY (Does not include SYRWCD, ID#1 or exchange water)**

Month	Total Delivered to Lake per CCWA	CVWD						MWD						CITY OF SB						GWD						LCMWC				RSYS			MLC									
		Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake					
<b>2017</b>																																										
Bal. Frwd						504						809						2098						747						0						11						1
January	1437	219	0	1	2	0	720	357	58	3	3	0	1102	357	273	4	8	10	2179	467	58	0	3	(10)	1144	35	10	2	23	0	0	0	11	2	2	2	1					
February	1250	196	96	4	7	0	809	296	25	2	10	0	1361	296	197	5	21	0	2252	445	50	0	11	0	1528	15	29	2	7	0	0	11	2	2	1							
March	990	135	180	4	7	0	753	226	76	2	12	0	1498	226	112	7	20	0	2340	339	190	0	13	0	1664	59	34	0	33	4	4	11	1	1	1							
April	634	96	134	17	11	0	686	144	180	23	22	0	1417	144	210	21	35	0	2218	217	567	3	25	0	1286	29	55	1	6	3	3	11	1	1	1							
May	1165	168	372	39	14	0	429	258	229	24	29	0	1392	258	80	49	46	0	2301	388	520	3	27	0	1124	86	63	0	29	4	3	12	3	4	0							
June	1026	153	377	13	10	0	182	230	293	10	33	0	1286	230	252	17	55	0	2208	345	958	2	27	0	483	60	34	1	54	4	4	12	4	4	0							
July	1151	165	327	12	5	0	3	254	321	12	34	0	1174	255	247	24	58	0	2134	383	850	3	13	0	0	84	74	1	62	4	4	12	6	6	0							
August	1006	144	232	0	0	85	0	223	333	0	37	71	1098	223	210		67	119	2199	334	345	0	0	11	0	74	92	2	42	4	4	12	4	4	0							
September	1190	175	153	22	0	0	0	263	288	36	39	0	997	263	187	16	78	0	2181	395	392	3	0	0	0	88	21	1	108	0	0	12	6	6	0							
October	1048	147	139	8	0	0	0	244	348	19	15	0	860	244	352	13	32	0	2028	367	365	2	0	0	0	46	81	2	71	0	0	12	0	0	0							
November	369	0	0	0	(0)	0	0	96	265	32	7	0	652	96	391	29	16	0	1688	145	143	2	(0)	0	0	32	96	1	7	0	0	12	0	0	0							
December	1281	0	0	0	(0)	0	0	354	310	61	4	0	630	298	273	36	10	0	1667	532	526	6	0	0	0	68	12	0	62	22	22	12	7	7	0							
<b>Total</b>	<b>12547</b>	<b>1598</b>	<b>2010</b>	<b>120</b>	<b>56</b>	<b>85</b>	<b>0</b>	<b>2945</b>	<b>2726</b>	<b>225</b>	<b>244</b>	<b>71</b>	<b>630</b>	<b>2890</b>	<b>2783</b>	<b>222</b>	<b>445</b>	<b>129</b>	<b>1667</b>	<b>4357</b>	<b>4964</b>	<b>24</b>	<b>117</b>	<b>1</b>	<b>0</b>	<b>676</b>	<b>601</b>	<b>13</b>	<b>62</b>	<b>45</b>	<b>44</b>	<b>12</b>	<b>36</b>	<b>37</b>	<b>0</b>							

(\*) Adj / Notes:

January 2017 - GWD transferred 18.12 AF SWP water to City of SB per overlap agreement

August 2017 - Includes credit adjustment for water loss charged to South Coast Member Units (Mar - Jul) based email from Michael Jackson, dated 09/15/17, which revised the approach to the assess for unaccounted-for water loss based on lake conditions.

Month	Total Delivered to Lake per CCWA	CVWD						MWD						CITY OF SB						GWD						LCMWC				RSYS			MLC									
		Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap / Spill (-)	Adj (*) (+/-)	Stored in Lake					
<b>2018</b>																																										
Bal. Frwd						0						630						1667						0						62						12						0
January	1275	201	31	3	(0)	0	167	270	219	18	4	0	659	301	346	16	11	0	1595	452	387	2	(0)	0	62	49	30	0	80	0	0	12	2	2	2	0						
February	1142	169	20	3	1	0	311	253	257	35	5	0	614	253	367	29	13	0	1440	380	146	3	1	0	293	85	52	1	113	0	0	12	2	2	0							
March	976	70	6	1	2	0	372	255	98	14	4	0	753	254	291	19	10	0	1373	381	9	1	2	0	663	10	15	1	107	4	4	12	2	2	0							
April	1218	0	47	2	4	0	320	287	225	5	9	0	801	287	496	8	16	0	1140	636	196	0	8	0	1094	0	29	1	77	5	5	12	3	3	0							
May	1255	190	154	12	5	0	338	309	290	23	13	0	784	285	491	23	18	0	892	463	400	2	18	0	1137	0	22	1	54	5	5	12	3	3	0							
June	1157	175	174	6	6	0	327	263	310	10	15	0	713	264	459	10	17	0	671	395	791	2	21	0	719	50	51	1	51	5	5	12	5	5	0							
July <sup>(1)</sup>	1160	170	239	-6	8	0	256	256	425	-11	16	0	538	256	682	-9	15	0	239	384	950	-2	17	0	139	86	91	1	45	3	3	12	5	5	0							
August																																										
September																																										
October																																										
November																																										
December																																										
<b>Total</b>	<b>8183</b>	<b>975</b>	<b>670</b>	<b>21</b>	<b>27</b>	<b>0</b>	<b>256</b>	<b>1893</b>	<b>1824</b>	<b>94</b>	<b>67</b>	<b>0</b>	<b>538</b>	<b>1900</b>	<b>3131</b>	<b>96</b>	<b>101</b>	<b>0</b>	<b>239</b>	<b>3091</b>	<b>2878</b>	<b>8</b>	<b>66</b>	<b>0</b>	<b>139</b>	<b>280</b>	<b>290</b>	<b>7</b>	<b>45</b>	<b>22</b>	<b>22</b>	<b>12</b>	<b>22</b>	<b>22</b>	<b>0</b>							

(\*) Adj / Notes:

July 2018 - Includes a credit adjustment to Apparent Water Loss (AWL). AWL is attributed to system loss, meter discrepancies and change in water storage. COMB staff monitors trends for potential corrective action or accounting adjustment.

Total SC Storage at month end (AF): 1172

Total Storage at month end (AF): 1229

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Goleta Water District**  
 Last updated by C.O.M.B. 07/31/18

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	3,088.0	3,728.0	570.6	170.4	741.1	45.1	741.1	786.2	605.4	180.8	0.0	0.0
Nov			434.3	160.6	595.0	17.8	595.0	612.8	447.3	165.5	0.0	0.0
Dec			102.2	35.9	138.1	11.2	138.1	149.3	110.5	38.8	0.0	0.0
Jan			0.0	42.6	42.6	10.4	42.6	53.0	0.0	53.0	0.0	0.0
Feb			0.0	98.0	98.0	12.2	98.0	110.2	0.0	110.2	0.0	0.0
Mar			0.0	11.6	11.6	9.6	11.6	21.2	0.0	21.2	0.0	0.0
Apr			0.0	79.2	79.2	16.1	79.2	95.2	0.0	95.2	0.0	0.0
May			0.0	126.0	126.0	19.4	126.0	145.4	0.0	145.4	0.0	0.0
Jun			0.0	117.2	117.2	19.9	117.2	137.0	0.0	137.0	0.0	0.0
Jul			0.0	155.3	155.3	21.4	155.3	176.7	0.0	176.7	0.0	0.0
Aug			-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3,088.0</b>	<b>3,728.0</b>	<b>1,107.2</b>	<b>996.9</b>	<b>2,104.1</b>	<b>183.0</b>	<b>2,104.1</b>	<b>2,287.1</b>	<b>1,163.2</b>	<b>1,123.9</b>	<b>0.0</b>	<b>0.0</b>

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	(5.4)	5.4	-	-
Aug	-	-	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,088.0	1,976.0	1,112.0	2,609.0	1,119.0	3,728.0
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	100.0	-	100.0
May	-	-	-	11.2	14.8	26.0
Jun	30.0	23.6	6.4	48.9	55.1	104.0
Jul	-	-	-	61.6	72.4	134.0
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	2,301.8	1,370.6	931.2	2,609.0	1,119.0	3,728.0
Nov	1,689.0	923.3	765.7	2,609.0	1,119.0	3,728.0
Dec	1,539.7	812.8	726.9	2,609.0	1,119.0	3,728.0
Jan	1,486.7	812.8	673.9	2,609.0	1,119.0	3,728.0
Feb	1,376.5	812.8	563.7	2,609.0	1,119.0	3,728.0
Mar	1,355.3	812.8	542.5	2,609.0	1,119.0	3,728.0
Apr	1,260.1	812.8	447.3	2,709.0	1,119.0	3,828.0
May	1,114.7	812.8	301.9	2,720.2	1,133.8	3,854.0
Jun	1,007.7	836.4	171.3	2,769.1	1,188.9	3,958.0
Jul	830.9	830.9	-	2,830.7	1,261.3	4,092.0
Aug						
Sep						

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,922.9**

(1) June Schedules and Revisions includes adjustment for November/December 2016 Evaporation Amount charged in error (+30AF).

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **City of Santa Barbara**  
 Last updated by C.O.M.B. 07/31/18

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	3,988.0	3,311.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>3,988.0</b>	<b>3,311.0</b>

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED			
Acre-feet			Allocation				Allocation			
M & I	Agr	Total	Evap	Used	Total	M & I	----	M & I	----	Total
0.0	0.0	0.0	58.3	0.0	58.3	58.3	0.0	0.0	0.0	0.0
0.0	0.0	0.0	30.4	0.0	30.4	30.4	0.0	0.0	0.0	0.0
0.0	0.0	0.0	25.9	0.0	25.9	25.9	0.0	0.0	0.0	0.0
0.0	0.0	0.0	26.1	0.0	26.1	26.1	0.0	0.0	0.0	0.0
0.0	0.0	0.0	31.5	0.0	31.5	31.5	0.0	0.0	0.0	0.0
0.0	0.0	0.0	26.5	0.0	26.5	26.5	0.0	0.0	0.0	0.0
0.0	0.0	0.0	45.0	0.0	45.0	45.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	60.5	0.0	60.5	60.5	0.0	0.0	0.0	0.0
0.0	0.0	0.0	69.3	0.0	69.3	69.3	0.0	0.0	0.0	0.0
0.0	0.0	-	83.3	0.0	83.3	83.3	0.0	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>456.7</b>	<b>-</b>	<b>456.7</b>	<b>456.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation	
		M & I	----	M & I	----
Begin Bal	3,988.0	3,988.0		3,311.0	3,311.0
					-
					-
					-
					-
ID #1 Exchange (+17AF)				17.0	17.0
ID #1 Exchange (+70AF)				70.0	70.0
ID #1 Exchange (+89AF)				89.0	89.0
					-
					-

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

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
Month	Total	Allocation		Allocation	
		M & I	----	M & I	----
Oct	3,929.7	3,929.7	-	3,311.0	3,311.0
Nov	3,899.3	3,899.3	-	3,311.0	3,311.0
Dec	3,873.4	3,873.4	-	3,311.0	3,311.0
Jan	3,847.4	3,847.4	-	3,311.0	3,311.0
Feb	3,815.8	3,815.8	-	3,311.0	3,311.0
Mar	3,789.3	3,789.3	-	3,311.0	3,311.0
Apr	3,744.4	3,744.4	-	3,311.0	3,311.0
May	3,683.9	3,683.9	-	3,328.0	3,328.0
Jun	3,614.6	3,614.6	-	3,398.0	3,398.0
Jul	3,531.3	3,531.3	-	3,487.0	3,487.0
Aug					
Sep					

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **7,018.3**

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Carpinteria Valley Water District**  
 Last updated by C.O.M.B. 07/31/18

CARRYOVER WATER	CURRENT YEAR ALLOCATION
-----------------	-------------------------

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	800.0	1,125.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>800.0</b>	<b>1,125.0</b>

TOTAL WATER CHARGED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Allocation			Allocation	
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
85.9	121.2	207.1	11.7	207.1	218.8	90.7	128.1	0.0	0.0	0.0
125.0	155.3	280.3	4.5	280.3	284.8	127.0	157.8	0.0	0.0	0.0
115.4	158.4	273.7	2.0	273.7	275.7	116.2	159.5	0.0	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0
0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0
0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0
0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.0
0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.0
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>326.3</b>	<b>434.9</b>	<b>761.1</b>	<b>20.0</b>	<b>761.1</b>	<b>781.1</b>	<b>334.0</b>	<b>447.2</b>	<b>-</b>	<b>-</b>	<b>-</b>

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	800.0	340.0	460.0	518.0	607.0	1,125.0
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	ID #1 Exchange (+12AF)			5.2	6.8	12.0
Jun	ID #1 Exchange (+46AF)			21.6	24.4	46.0
Jul	ID #1 Exchange (+60AF)			27.6	32.4	60.0
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

CONVERSIONS (M&I AND AG SPLIT)				
Month	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
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			
Month	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	581.2	249.3	331.9	518.0	607.0	1,125.0
Nov	296.4	122.2	174.2	518.0	607.0	1,125.0
Dec	20.7	6.0	14.7	518.0	607.0	1,125.0
Jan	20.6	6.0	14.5	518.0	607.0	1,125.0
Feb	20.4	6.0	14.4	518.0	607.0	1,125.0
Mar	20.3	6.0	14.2	518.0	607.0	1,125.0
Apr	20.0	6.0	14.0	518.0	607.0	1,125.0
May	19.7	6.0	13.7	523.2	613.8	1,137.0
Jun	19.3	6.0	13.3	544.8	638.2	1,183.0
Jul	18.9	6.0	12.8	572.4	670.6	1,243.0
Aug						
Sep						

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 1,261.9

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Montecito Water District**  
 Last updated by C.O.M.B. 07/31/18

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	1,011.0	1,060.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>1,011.0</b>	<b>1,060.0</b>

Month	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED			Total	
	Acre-feet			Evap	Used	Total	Allocation		Allocation		
	M & I	Agr	Total				M & I	Agr	M & I		Agr
Oct	0.0	0.0	0.0	14.8	-	14.78	11.6	3.2	0.0	0.0	0.0
Nov	0.0	0.0	0.0	7.7	-	7.7	6.0	1.7	0.0	0.0	0.0
Dec	0.0	0.0	0.0	6.6	-	6.6	5.2	1.4	0.0	0.0	0.0
Jan	0.0	0.0	0.0	6.6	-	6.6	5.2	1.4	0.0	0.0	0.0
Feb	0.0	0.0	0.0	8.0	-	8.0	6.3	1.7	0.0	0.0	0.0
Mar	0.0	0.0	0.0	6.7	-	6.7	5.3	1.4	0.0	0.0	0.0
Apr	0.0	0.0	0.0	11.4	-	11.4	9.0	2.4	0.0	0.0	0.0
May	0.0	0.0	0.0	15.3	-	15.3	12.1	3.3	0.0	0.0	0.0
Jun	0.0	0.0	0.0	17.6	-	17.6	13.8	3.8	0.0	0.0	0.0
Jul	0.0	0.0	0.0	21.1	-	21.1	16.6	4.5	0.0	0.0	0.0
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>115.8</b>	<b>-</b>	<b>115.8</b>	<b>90.9</b>	<b>24.9</b>	<b>-</b>	<b>-</b>	<b>-</b>

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	1,011.0	794.0	217.0	986.0	74.0	1,060.0
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	ID #1 Exchange (+17AF)			7.3	9.7	17.0
Jun	ID #1 Exchange (+70AF)			32.9	37.1	70.0
Jul	ID #1 Exchange (+89AF)			40.9	48.1	89.0
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	996.2	782.4	213.8	986.0	74.0	1,060.0
Nov	988.5	776.3	212.2	986.0	74.0	1,060.0
Dec	982.0	771.2	210.8	986.0	74.0	1,060.0
Jan	975.3	766.0	209.3	986.0	74.0	1,060.0
Feb	967.4	759.7	207.6	986.0	74.0	1,060.0
Mar	960.6	754.4	206.2	986.0	74.0	1,060.0
Apr	949.2	745.5	203.7	986.0	74.0	1,060.0
May	933.9	733.4	200.5	993.3	83.7	1,077.0
Jun	916.3	719.7	196.7	1,026.2	120.8	1,147.0
Jul	895.2	703.1	192.1	1,067.1	168.9	1,236.0
Aug						
Sep						

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION)** **2,131.2**

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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**  
 Last updated by **C.O.M.B. 07/31/18**

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	16.0	1,060.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
<b>Total</b>	<b>16.0</b>	<b>1,060.0</b>

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED				
Month	M & I	Agr	Total	Evap	Used	Total	Allocation		Allocation		Total
							M & I	Agr	M & I	Agr	
Oct	2.4	0.0	2.4	0.2	2.4	2.6	2.6	0.0	0.0	0.0	0.0
Nov	1.2	0.0	1.2	0.1	1.2	1.3	1.3	0.0	0.0	0.0	0.0
Dec	2.4	0.0	2.4	0.1	2.4	2.4	2.4	0.0	0.0	0.0	0.0
Jan	0.9	0.0	0.9	0.1	0.9	1.0	1.0	0.0	0.0	0.0	0.0
Feb	1.3	0.0	1.3	0.1	1.3	1.4	1.4	0.0	0.0	0.0	0.0
Mar	0.2	0.0	0.2	0.1	0.2	0.2	0.2	0.0	0.0	0.0	0.0
Apr	1.9	0.0	1.9	0.1	1.9	2.0	2.0	0.0	0.0	0.0	0.0
May	2.0	0.0	2.0	0.1	2.0	2.1	2.1	0.0	0.0	0.0	0.0
Jun	2.0	0.0	2.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
Jul	3.1	0.0	3.1	0.0	1.0	1.0	1.0	0.0	2.1	0.0	2.1
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>17.3</b>	<b>0.0</b>	<b>17.3</b>	<b>0.8</b>	<b>15.2</b>	<b>16.0</b>	<b>16.0</b>	<b>0.0</b>	<b>2.1</b>	<b>0.0</b>	<b>2.1</b>

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
2.6	(2.6)	-	-
1.3	(1.3)	-	-
2.4	(2.4)	-	-
1.0	(1.0)	-	-
1.4	(1.4)	-	-
0.2	(0.2)	-	-
2.0	(2.0)	-	-
2.1	(2.1)	-	-
2.0	(2.0)	-	-
1.0	(1.0)	(40.7)	40.7
-	-	-	-
-	-	-	-

Month  
 Oct  
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 Mar  
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 May  
 Jun  
 Jul  
 Aug  
 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
Month	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	16.0	0.0	16.0	710.0	350.0	1,060.0
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	ID #1 Exchange (-72AF)			(36.0)	(36.0)	(72.0)
Jun	ID #1 Exchange (-290AF)			(136.3)	(153.7)	(290.0)
Jul	ID #1 Exchange (-372AF)			(171.0)	(201.0)	(372.0)
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

\*NOTE:

Month  
 Oct  
 Nov  
 Dec  
 Jan  
 Feb  
 Mar  
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 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	
Oct	2.4	-	13.4	710.0	350.0	1,060.0
Nov	1.2	-	12.0	710.0	350.0	1,060.0
Dec	2.4	-	9.6	710.0	350.0	1,060.0
Jan	0.9	-	8.6	710.0	350.0	1,060.0
Feb	1.3	-	7.2	710.0	350.0	1,060.0
Mar	0.2	-	7.0	710.0	350.0	1,060.0
Apr	1.9	-	5.1	710.0	350.0	1,060.0
May	2.0	-	3.0	674.0	314.0	988.0
Jun	2.0	-	1.0	537.7	160.3	698.0
Jul	3.1	-	-	323.9	-	323.9
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **323.9**



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

Contract Year: 10/1/17 to: 9/30/18

Contract Entity: **Santa Barbara Co. Water Agency**  
 Last updated by C.O.M.B. 07/31/18

Month	Carryover Balance		Approved Allocation		CARRYOVER WATER				CURRENT YEAR ALLOCATION					
	Prior Yr	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	8,903.0	10,284.0	0.1	658.9	291.7	950.6	130.2	950.6	1,080.8	768.7	312.1	0.0	0.0	0.0
Nov			0.0	560.6	315.9	876.5	60.5	876.5	937.0	612.1	324.9	0.0	0.0	0.0
Dec			0.0	219.9	194.3	414.2	45.7	414.2	459.9	260.1	199.7	0.0	0.0	0.0
Jan			0.0	0.9	0.0	43.5	43.3	43.5	86.8	32.2	54.5	0.0	0.0	0.0
Feb			0.0	1.3	98.0	99.3	52.0	99.3	151.3	39.2	112.1	0.0	0.0	0.0
Mar			0.0	0.2	11.6	11.8	42.9	11.8	54.7	32.0	22.8	0.0	0.0	0.0
Apr			0.0	1.9	79.2	81.0	72.8	81.0	153.8	55.9	97.9	0.0	0.0	0.0
May			0.0	2.0	126.0	128.1	95.6	128.1	223.7	74.7	149.0	0.0	0.0	0.0
Jun			0.0	2.0	117.2	119.1	107.1	119.1	226.2	85.1	141.2	0.0	0.0	0.0
Jul			0.0	3.1	155.3	158.4	126.3	156.3	282.6	100.8	181.7	2.1	-	2.1
Aug			-	-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>8,903.0</b>	<b>10,284.0</b>	<b>0.2</b>	<b>1,450.8</b>	<b>1,431.8</b>	<b>2,882.6</b>	<b>776.3</b>	<b>2,880.5</b>	<b>3,656.7</b>	<b>2,060.9</b>	<b>1,595.9</b>	<b>2.1</b>	<b>0.0</b>	<b>2.1</b>

Month	CONVERSIONS (M&I AND AG)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	2.6	(2.6)	-	-
Nov	1.3	(1.3)	-	-
Dec	2.4	(2.4)	-	-
Jan	1.0	(1.0)	-	-
Feb	1.4	(1.4)	-	-
Mar	0.2	(0.2)	-	-
Apr	2.0	(2.0)	-	-
May	2.1	(2.1)	-	-
Jun	2.0	(2.0)	-	-
Jul	(4.5)	4.5	(40.7)	40.7
Aug	-	-	-	-
Sep	-	-	-	-

Month  
 Oct  
 Nov  
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 May  
 Jun  
 Jul  
 Aug  
 Sep

Month	SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
	Begin Bal	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	100.0	-	100.0
May	-	-	-	-	4.7	(4.7)	-
Jun	30.0	23.6	6.4	-	37.1	(37.1)	-
Jul	-	-	-	-	48.1	(48.1)	-
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	2.4	7,822.2	6,332.0	1,490.3	8,134.0	2,150.0	10,284.0
Nov	1.2	6,885.3	5,721.1	1,164.1	8,134.0	2,150.0	10,284.0
Dec	2.4	6,425.4	5,463.4	961.9	8,134.0	2,150.0	10,284.0
Jan	0.9	6,338.6	5,432.2	906.4	8,134.0	2,150.0	10,284.0
Feb	1.3	6,187.3	5,394.3	792.9	8,134.0	2,150.0	10,284.0
Mar	0.2	6,132.6	5,362.6	770.0	8,134.0	2,150.0	10,284.0
Apr	1.9	5,978.8	5,308.7	670.1	8,234.0	2,150.0	10,384.0
May	2.0	5,755.1	5,236.1	519.0	8,238.7	2,145.4	10,384.0
Jun	2.0	5,558.8	5,176.6	382.2	8,275.8	2,108.3	10,384.0
Jul	3.1	5,276.3	5,071.3	205.0	8,281.0	2,100.9	10,381.9
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION)** 15,658.2





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



**Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: July 2018**

<b>Cachuma Lake Recreation Area Launch Data -- July 2018</b>		
<b>Inspection Data</b>		
Total Vessels entering Park	220	
Total Vessels launched	210	
Total Vessels Quarantined	10	
Returning with Boat Launch Tag	139	66%
New: Removed from Quarantine		
Kayak/Canoe: Inspected, launched	71	34%
4-stroke Engines		
2-strokes, w/CARB star ratings		
2-strokes, NO emissions ratings		
<b>Quarantine Data</b>		
Total Vessels Quarantined	10	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	10	
<b>Quarantine Cause</b>		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	2	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	10	
<b>Demographic Data</b>		
Quarantined from infected county	2	
Quarantined from SB County	8	
Quarantined from uninfected co	0	

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: 2018.07.29; 9:00 11:00 PDT  
 Method: 10 PVC/Cement Sampling Stations; 52 linear feet of line  
 Surveyors: SBCO Parks  
 Lake elevation: Max feet: 753.00, current 700.26; Max acre-feet: 193,305, current: 72,605;  
 Current capacity: 37.6%