



**REGULAR MEETING  
OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD**

**Monday, June 28, 2021  
1:00 P.M.**

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**BY TELECONFERENCE**

**NOTICE:** Pursuant to State of California Executive Orders N-29-20 and N-07-21, members of the Cachuma Operation & Maintenance Board (COMB) Board of Directors and members of the public will participate in this meeting electronically by video and/or teleconference, as described below.

**HOW TO OBSERVE THE MEETING**

Members of the public may observe the meeting as set forth below.

**Join via video conference:**

<https://us02web.zoom.us/j/86321912744?pwd=cjlaZjh3cjdCUkRIN1lTUXlIdHp4Zz09>

Passcode: 313587

**Join via teleconference:**

US: +1 669 900 6833 Conference ID: 863 2191 2744 Passcode: 313587

**HOW TO MAKE A PUBLIC COMMENT**

Any member of the public may address the Board on any subject within the jurisdiction of the Board of Directors. 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.

**By Video:** Those observing the meeting by video may make comments during designated public comment periods using the “raise hand” feature. Commenters will be required to unmute their respective microphone when providing comments.

**By Telephone:** Those observing the meeting by telephone may make comments during the designated public comment periods by pressing \*9 on the key pad to indicate such interest. Commenters will be prompted to press \*6 to unmute their respective telephone when called upon to speak.

**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.

**REGULAR MEETING  
OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD**

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**Monday, June 28, 2021**

**1:00 PM**

**AGENDA**

**NOTICE:** This Meeting shall be conducted through remote access as authorized and in accordance with Government Code section 54953 and the California Governor's Executive Order N-29-20 and N-07-21.

- 1. CALL TO ORDER, ROLL CALL**
- 2. PUBLIC COMMENT** (*Public may address the Board on any subject matter within the Board's jurisdiction. See "Notice to the Public" below.*)
- 3. CONSENT AGENDA** (*All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.*)  
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
  - a. Minutes of May 13, 2021 Special Board Meeting
  - b. Minutes of May 24, 2021 Regular Board Meeting
  - c. Investment of Funds
    - Financial Reports
    - Investment Reports
  - d. Review of Paid Claims
- 4. VERBAL REPORTS FROM BOARD COMMITTEES**  
Receive verbal information regarding the following committee meetings:
  - Fisheries Committee Meeting – June 9, 2021
  - Operations Committee Meeting – June 10, 2021
- 5. FISCAL YEAR 2021-22 ELECTIONS AND APPOINTMENTS OF CACHUMA OPERATION AND MAINTENANCE BOARD**  
Action: Elections for President and Vice-President by nomination and roll call vote of the Board:
  - a. Election of President
  - b. Election of Vice-President  
Action: Appointment by motion and roll call vote of the Board for each appointment:
  - c. Appointment of ACWA/JPIA Representative and Alternate
  - d. Appointment of General Counsel
  - e. Appointment of Secretary of the Board
  - f. Appointment of Treasurer /Auditor-Controller

6. **SCOPES OF WORK (SOW) AND SAMPLE PROFESSIONAL SERVICES AGREEMENT FOR FISCAL YEAR 2021-22 FOR FISHERIES DIVISION CONSULTANTS**  
Action: Receive and file information related to the Scopes of Work for Fisheries Division Consultants
  
7. **CACHUMA PROJECT WARREN ACT TRUST FUND / RENEWAL FUND 2021-22 ANNUAL AND LONG TERM PLAN; SANTA BARBARA COUNTY BETTERMENT FUND USE OF FUNDS**  
Action: Receive and file the Annual and Long Term Plan (once approved by the Funds Committee) and Recommend approval of related expenditures by motion and roll call vote of the Board
  
8. **ESRI CONFERENCE WATER QUALITY PRESENTATION**  
Action: Receive information to be presented by staff at the virtual annual ESRI Conference
  
9. **GENERAL MANAGER REPORT**  
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
  - Administration
  - Virtual Meetings
  - Staff Professional Development
  
10. **ENGINEER'S REPORT**  
Receive information from the COMB Engineer, including but not limited to the following:
  - Climate Conditions
  - Vegetation Recovery Following Wildfires
  - Lake Elevation Projections
  - CalTrans Highway 192 Paving
  - Infrastructure Improvement Projects
  
11. **OPERATIONS DIVISION REPORT**  
Received information regarding the Operations Division, including but not limited to the following:
  - Lake Cachuma Operations
  - Operation and Maintenance Activities
  
12. **FISHERIES DIVISION REPORT**  
Receive information from the Fisheries Division Manager, including, but not limited to the following:
  - LSYR Steelhead Monitoring Elements
  - Tributary Project Updates
  - Surcharge Water Accounting
  - Reporting/Outreach/Training
  
13. **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

**14. 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

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

**16. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: POTENTIAL LITIGATION**

- a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647  
– Request for Declaratory and Injunctive Relief

**17. RECONVENE INTO OPEN SESSION**

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

- 16a. Name of matter: *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647  
– Request for Declaratory and Injunctive Relief

**18. MEETING SCHEDULE**

- **July 26, 2021 at 1:00 PM**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**19. 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. 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 SPECIAL MEETING  
OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD**

**by Teleconference Call ONLY**

**Thursday, May 13, 2021  
1:00 PM**

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

The meeting was called to order by President Holcombe at 1:06 PM

All attendees participated telephonically pursuant to California Governor Gavin Newsom's Executive Orders N-25-20 and N-29-20.

**Directors Present:**

Polly Holcombe, Carpinteria Valley Water District  
Kristen Sneddon, City of Santa Barbara  
Lauren Hanson, Goleta Water District  
Tobe Plough, Montecito Water District Alternate

**General Counsel Present:**

William Carter, Musick, Peeler, Garrett, LLP

**Staff Present:**

Janet Gingras, General Manager	Timothy Robinson, Fisheries Division Manager
Edward Lyons, Administrative Manager/CFO	Dorothy Turner, Administrative Assistant II
Joel Degner, Engineer/Operations Division Manager	

**Others Present:**

None

**2. PUBLIC COMMENT**

There was no public comment.

**3. VERBAL REPORTS FROM BOARD COMMITTEES**

- *Administrative Committee Meeting April 29, 2021* – Director Holcombe briefed the Board regarding the committee members' review of the proposed draft budget presented in this agenda as item number four. She noted that members and district managements supported the draft budget as presented and had not recommended any cuts to the already tightly crafted document.

**4. COMB PROPOSED DRAFT FISCAL YEAR 2021-22 OPERATING BUDGET**

Ms. Gingras introduced the agenda item and asked Mr. Lyons to present the draft budget to the Board. Mr. Lyons referred to the powerpoint presentation included in the Board packet. He provided an overview of various components of the draft budget, including a recap of the budget process, projected managed

revenues and net budget changes over the prior year. Further he detailed the anticipated expenses for each division, including projected salaries.

Mr. Lyons invited Mr. Degner to discuss the Infrastructure Improvement Projects and other Special Projects planned for the upcoming fiscal year. Mr. Degner provided comment regarding the status and timeline of each of the planned projects.

Mr. Lyons then asked Mr. Robinson to review the Habitat Improvement Projects and Fisheries Support Services. Mr. Robinson provided detail regarding the projected expenses comprising each line item.

Mr. Lyons fielded questions and comments from the Board, including a request to illustrate the budget variance over the prior year, as allocated by each Member Unit's percentage of support.

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

Ms. Gingras proposed to include a discussion of video webinar meetings on the next Board meeting agenda. The proposal garnered approval from Board members.

**6. MEETING SCHEDULE**

- **May 24, 2021 Regular Board Meeting (by teleconference only) at 1:00 P.M.**
- **Board Packages Available on COMB Website**  
[www.cachuma-board.org](http://www.cachuma-board.org)

**7. COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 1:56 PM.

Respectfully submitted,

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Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

**APPROVED:**

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Polly Holcombe, President of the Board

**MINUTES OF REGULAR MEETING  
OF  
CACHUMA OPERATION AND MAINTENANCE BOARD**

by Teleconference Call ONLY

**Monday, May 24, 2021**

**1:00 PM**

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

The meeting was called to order by President Holcombe at 1:03 PM

All attendees participated telephonically pursuant to California Governor Gavin Newsom's Executive Orders N-25-20 and N-29-20.

**Directors Present:**

Polly Holcombe, Carpinteria Valley Water District

Kristen Sneddon, City of Santa Barbara

Lauren Hanson, Goleta Water District

Cori Hayman, Montecito Water District

**General Counsel Present:**

William Carter, Musick, Peeler, Garrett, LLP

**Staff Present:**

Janet Gingras, General Manager

Edward Lyons, Administrative Manager/CFO

Joel Degner, Engineer/Operations Division Manager

Timothy Robinson, Fisheries Division Manager

Shane King, Operations Supervisor

Dorothy Turner, Administrative Assistant II

**Others Present:**

Matt Young, County of Santa Barbara

**2. PUBLIC COMMENT**

There was no public comment.

**3. CONSENT AGENDA**

- a. Minutes of April 26, 2021 Regular Board Meeting
- b. Investment of Funds
  - Financial Reports
  - Investment Reports
- c. Review of Paid Claims

Ms. Gingras presented the Minutes of the last Board meeting and asked Mr. Lyons to comment on the remaining Consent Agenda items. Mr. Lyons reviewed revenues received and highlighted various expenditures. He fielded questions from the Board.

Director Hanson put forth a motion to approve the Consent Agenda items which was seconded by Director Sneddon. The motion passed unanimously with a vote of six in favor.

**Ayes:** Sneddon, Hayman, Hanson, Holcombe  
**Nays:**  
**Absent:**  
**Abstain:**

#### **4. VIRTUAL ACCESS FOR BOARD AND COMMITTEE MEETINGS**

Ms. Gingras introduced virtual meeting access for Board discussion. She asked Ms. Turner to provide a summary of the proposed platform for virtual meetings. Ms. Turner presented Zoom Professional and Zoom Video Webinar products for the Board's review, summarizing the background and research undertaken by staff during the last year. Additionally she provided a general outline for a public meeting that would meet current Brown Act requirements. Ms. Gingras and Mr. Lyons fielded questions and comments from the Board, which approved virtual access for meetings when and as allowed by the Brown Act and any upcoming legislation.

#### **5. RESOLUTION NO. 725 – COMB FISCAL YEAR 2021-22 ANNUAL OPERATING BUDGET**

Mr. Lyons presented the Fiscal Year 2021-22 Annual Operating Budget to the Board for adoption. He reviewed the projected operating expenditures for the 2021-22 budget in comparison to those of 2020-21, noting percent and dollar amount of change. Mr. Lyons provided itemization of the cost increases and decreases that comprised the change between the two years. As well, he drew the Board's attention to the enhanced schedule of Cachuma Project Member Unit Obligation, year over year. Mr. Lyons fielded various comments from the Board. Directors noted that new regulations for zero emission standards for vehicles are forthcoming from the State of California which will impact new vehicle purchases as well as future budgets.

Director Hanson made a motion to adopt Fiscal Year 2021-22 Operating Budget via approval and adoption of Resolution No. 725. Director Sneddon seconded the motion which carried unanimously with a vote of six in favor.

**Ayes:** Sneddon, Hayman, Hanson, Holcombe  
**Nays:**  
**Absent:**  
**Abstain:**

#### **6. GENERAL MANAGER REPORT**

- Administration
- Meetings
- Staff Training
- Engineering / Operations Division

Ms. Gingras presented the General Manager Report highlighting the onset of preliminary 2020-21 audit field work and COMB's upgraded phone system. She updated the Board regarding action taken by COMB in light of the recent Colonial Pipeline cyber-attack. Ms. Gingras reported extensively about the recent Integrated Regional Water Management Program (IRWMP) meeting, in particular the Local Government Commission's presentation on fire management and the Department of Water Resources' (DWR) newly created database to track water-related sustainability. She touched briefly on IRWMP funding opportunities and staff Emergency Action Plan (EAP) training. Finally, Ms. Gingras provided a legislative update of bills currently in appropriations. She fielded comments from the Board, including a request for further information, as available, regarding EAP training.



## **7. ENGINEER'S REPORT**

- Climate Conditions
- Lake Cachuma Water Quality Update
- SCADA System Improvements
- Comprehensive Facility Reviews
- Vehicle Condition Assessment
- CalTrans Highway 192 Paving Project
- Infrastructure Improvement Projects

Mr. Degner presented the Engineer's report. He reviewed climate conditions and lake hydrology data, noting continued lack of rain has the area on track for being the fifth driest year on record. He provided updates on the anticipated downstream water rights releases planned for Summer 2021 and the projected deployment of the Emergency Pumping Facility based on current hydrology. Additionally, Mr. Degner reported that staff is monitoring lake water quality closely in light of recent non-toxic algal blooms. Updates were provided for the ongoing SCADA System improvements and actions taken to address Reclamation's site inspection recommendations. Mr. Degner advised that staff is investigating options to replace an existing undersized vehicle with a heavy-duty Ford F350. Finally, he reviewed CalTrans' planned July 2021 re-pavement of a portion of Highway 192, the completion of which will require COMB to bring valve cans up to grade.

## **8. OPERATIONS DIVISION REPORT**

- Operation and Maintenance Activities

Mr. King presented the Operations Division report, reviewing routine operations and the completed quarterly Venturi meter calibrations. He detailed Reclamation-requested work undertaken at the Lauro outlet works and reported that the Operations crew had collaborated with Fisheries crew to assist Reclamation with valve replacements for the Hilton Creek Emergency Backup System. Mr. King advised that a minor vehicle collision with an Air Vacuum Air Release (AVAR) structure required that the AVAR lid be repaired and repositioned but no other damage was sustained by the structure from the impact.

## **9. FISHERIES DIVISION REPORT**

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

Mr. Robinson presented the Fisheries Division report, noting that Reclamation has met or exceeded minimum target flows to Hilton Creek and the Highway 154 bridge. Normal Biological Opinion monitoring has been ongoing. Mr. Robinson reported that the National Marine Fisheries Service (NMFS) and California Department of Fish and Wildlife (CDFW) had approved the rescue and relocation of eleven fish from a deteriorating habitat to a more sustainable habitat. Further, he advised that another such rescue operation was planned upon receipt of NMFS's and CDFW's approvals. Mr. Robinson provided an in-depth report of Reclamation's replacement of two inoperable valves in the Hilton Creek Emergency Backup System. Fisheries and Operations staff's assistance resulted in maintenance of downstream flow while the outlet works were shut down for the repair and hence, no impact to the downstream fishery.

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

- Maintenance and Monitoring

Mr. Robinson presented the Lake Cachuma Oak Tree Program report. He reported that staff had continued to irrigate, hand-weed around the oak trees and maintain or remove deer cages as needed. Mr. Robinson reported that the 2020 Annual Report would be ready early in the new fiscal year. Finally he advised that the arborist consultant had visited the planted areas and provided some suggestions for maintenance of the trees.

**11. MONTHLY CACHUMA PROJECT REPORTS**

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

Ms. Gingras presented the Cachuma Project reports, noting that there was nothing imperative to report other than disappointment at the continued lack of rain.

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

There were no requests from Directors.

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

The Board entered into Closed Session at 2:39 PM

- a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647 – Request for Declaratory and Injunctive Relief

**14. [CLOSED SESSION]: CONFERENCE WITH LABOR NEGOTIATORS**

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

**15. 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 reconvened into Open Session at 2:54 PM.

- 13a. *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647 – Request for Declaratory and Injunctive Relief

There was no reportable action

- 14a. Conference with Labor Negotiators

The Board gave direction to the President regarding the proposed Employment Agreement of General Manager, Janet Gingras.

**16. MODIFICATION OF GENERAL MANAGER’S COMPENSATION**

The Board unanimously approved the proposed employment agreement between COMB and Ms. Gingras.

**17. MEETING SCHEDULE**

- **June 28, 2021 at 1:00 PM**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**18. COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 3:00 PM.

Respectfully submitted,

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

	<i>Approved</i>
√	<i>Unapproved</i>

**APPROVED:**

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

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**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of May 31, 2021  
**UNAUDITED**

	<b>May 31, 21</b>
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
<b>Trust Funds</b>	
1210 · Warren Act Trust Fund	80,630.72
1220 · Renewal Fund	44,783.30
<b>Total Trust Funds</b>	125,414.02
1050 · General Fund	661,918.09
1100 · Revolving Fund	55,109.28
<b>Total Checking/Savings</b>	842,441.39
<b>Accounts Receivable</b>	
1301 · Accounts Receivable	16,570.00
1320 · Quarterly Assessments Receivable	154,997.00
<b>Total Accounts Receivable</b>	171,567.00
<b>Other Current Assets</b>	
1010 · Petty Cash	500.00
1200 · LAIF	1,592,779.14
1303 · Bradbury SOD Act Assessments Receivable	207,474.00
1304 · Lauro Dam SOD Assessments Receivable	31,939.08
1400 · Prepaid Insurance	10,178.72
<b>Total Other Current Assets</b>	1,842,870.94
<b>Total Current Assets</b>	2,856,879.33
<b>Fixed Assets</b>	
1500 · Vehicles	468,728.36
1505 · Office Furniture & Equipment	306,053.41
1510 · Mobile Offices	97,803.34
1515 · Field Equipment	550,152.72
1525 · Paving	38,351.00
1550 · Accumulated Depreciation	(1,276,895.81)
<b>Total Fixed Assets</b>	184,193.02
<b>Other Assets</b>	
1923 · Deferred Outflow (GASB 75)	886,927.00
1910 · Long Term Bradbury SOD Act Assessments Receivable	4,271,329.07
1920 · Long Term Lauro SOD Act Assessments Receivable	772,150.06
1922 · Deferred Outflow of Resources (GASB 68)	336,263.00
<b>Total Other Assets</b>	6,266,669.13
<b>TOTAL ASSETS</b>	<b>9,307,741.48</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of May 31, 2021  
UNAUDITED

	<b>May 31, 21</b>
<b>LIABILITIES &amp; NET POSITION</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Accounts Payable</b>	
2200 · Accounts Payable	17,981.32
<b>Total Accounts Payable</b>	17,981.32
<b>Other Current Liabilities</b>	
2505 · Accrued Wages	11,794.50
2550 · Vacation/Sick	183,338.51
2561 · Bradbury Dam SOD Act	207,473.99
2563 · Lauro Dam SOD Act	31,939.08
2565 · Accrued Interest SOD Act	52,227.00
2567 · Loan Payable Current EPFP	74,937.63
2590 · Deferred Revenue	125,414.02
2594 · Deferred Revenue - Assessments	3,707.50
<b>Total Other Current Liabilities</b>	690,832.23
<b>Total Current Liabilities</b>	708,813.55
<b>Long Term Liabilities</b>	
2602 · Long Term SOD Act Liability-Bradbury	4,271,319.07
2603 · Long Term SOD Act Liability - Lauro	772,150.06
2604 · OPEB Long Term Liability	5,565,697.00
2610 · Net Pension Liability (GASB 68)	1,893,141.00
2611 · Deferred Inflow of Resources (GASB 68)	802,348.00
<b>Total Long Term Liabilities</b>	13,304,655.13
<b>Total Liabilities</b>	14,013,468.68
<b>Net Position</b>	
3000 · Opening Balance Net Position	(5,296,580.05)
3901 · Retained Net Assets	(812,284.12)
<b>Net Income</b>	1,403,136.97
<b>Total Net Position</b>	(4,705,727.20)
<b>TOTAL LIABILITIES &amp; NET POSITION</b>	<b>9,307,741.48</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2020 - June 2021

	Fisheries				Operations				TOTAL			
	Jul '20 - May 21	Budget	\$ Over / (Under) Budget	% of Budget	Jul '20 - May 21	Budget	\$ Over / (Under) Budget	% of Budget	Jul '20 - May 21	Budget	\$ Over / (Under) Budget	% of Budget
	<b>Revenue</b>											
<b>3000 REVENUE</b>												
3001 · O&M Budget (Qtrly Assessments)	\$ 1,001,522.00	\$ 1,001,522.00	\$ -	100.0%	\$ 3,084,540.00	\$ 3,806,921.00	\$ (722,381.00)	81.03%	\$ 4,086,062.00	\$ 4,808,443.00	\$ (722,381.00)	84.98%
3006 · Warren Act	77,780.00	62,780.00	15,000.00	123.89%	0.00				77,780.00	62,780.00	15,000.00	123.89%
3007 · Renewal Fund	168,730.31	203,298.00	-34,567.69	83.0%	0.00				168,730.31	203,298.00	-34,567.69	83.0%
3009 · EPFP Loan (Qtrly Assessments)	0.00				347,587.64	0.00	347,587.64	100.0%	347,587.64	0.00	347,587.64	100.0%
3010 · Interest Income	0.00				7,124.55	0.00	7,124.55	100.0%	7,124.55	0.00	7,124.55	100.0%
3014 · Non-Member Agency Revenue	39,040.00	0.00	39,040.00	100.0%	0.00				39,040.00	0.00	39,040.00	100.0%
3020 · Misc Income	0.00				500.00	0.00	500.00	100.0%	500.00	0.00	500.00	100.0%
3035 · Cachuma Project Betterment Fund	90,000.00	90,000.00	0.00	100.0%	0.00				90,000.00	90,000.00	0.00	100.0%
3042 · Sycamore Cnyn Slope Stabln Reim	0.00				3,736.60	0.00	3,736.60	100.0%	3,736.60	0.00	3,736.60	100.0%
3043 · Grant-QC Crossing #8	43,280.29	0.00	43,280.29	100.0%	0.00				43,280.29	0.00	43,280.29	100.0%
<b>Total 3000 REVENUE</b>	<b>\$ 1,420,352.60</b>	<b>\$ 1,357,600.00</b>	<b>\$ 62,752.60</b>	<b>104.62%</b>	<b>\$ 3,443,488.79</b>	<b>\$ 3,806,921.00</b>	<b>\$ (363,432.21)</b>	<b>90.45%</b>	<b>\$ 4,863,841.39</b>	<b>\$ 5,164,521.00</b>	<b>\$ (300,679.61)</b>	<b>94.18%</b>
<b>Expense</b>												
3100 · LABOR - OPERATIONS	\$ -	\$ -	\$ -	0.0%	\$ 741,157.71	\$ 1,010,140.00	\$ (268,982.29)	73.37%	\$ 741,157.71	\$ 1,010,140.00	\$ (268,982.29)	73.37%
<b>3200 VEH &amp; EQUIPMENT</b>												
3201 · Vehicle/Equip Mtce	0.00				22,263.76	35,000.00	-12,736.24	63.61%	22,263.76	35,000.00	-12,736.24	63.61%
3202 · Fixed Capital	0.00				527.55	25,000.00	-24,472.45	2.11%	527.55	25,000.00	-24,472.45	2.11%
3203 · Equipment Rental	0.00				690.96	5,000.00	-4,309.04	13.82%	690.96	5,000.00	-4,309.04	13.82%
3204 · Miscellaneous	0.00				11,045.78	10,000.00	1,045.78	110.46%	11,045.78	10,000.00	1,045.78	110.46%
<b>Total 3200 VEH &amp; EQUIPMENT</b>	<b>0.00</b>				<b>34,528.05</b>	<b>75,000.00</b>	<b>-40,471.95</b>	<b>46.04%</b>	<b>34,528.05</b>	<b>75,000.00</b>	<b>-40,471.95</b>	<b>46.04%</b>
<b>3300 · CONTRACT LABOR</b>												
3301 · Conduit, Meter, Valve & Misc	0.00				15,726.09	20,000.00	-4,273.91	78.63%	15,726.09	20,000.00	-4,273.91	78.63%
3302 · Buildings & Roads	0.00				31,089.68	20,000.00	11,089.68	155.45%	31,089.68	20,000.00	11,089.68	155.45%
3303 · Reservoirs	0.00				24,258.27	60,000.00	-35,741.73	40.43%	24,258.27	60,000.00	-35,741.73	40.43%
3304 · Engineering, Misc Services	0.00				9,682.50	30,000.00	-20,317.50	32.28%	9,682.50	30,000.00	-20,317.50	32.28%
<b>Total 3300 · CONTRACT LABOR</b>	<b>0.00</b>				<b>80,756.54</b>	<b>130,000.00</b>	<b>-49,243.46</b>	<b>62.12%</b>	<b>80,756.54</b>	<b>130,000.00</b>	<b>-49,243.46</b>	<b>62.12%</b>
<b>3400 · MATERIALS &amp; SUPPLIES</b>												
3401 · Conduit, Meter, Valve & Misc	0.00				42,461.51	65,000.00	-22,538.49	65.33%	42,461.51	65,000.00	-22,538.49	65.33%
3402 · Buildings & Roads	0.00				8,663.29	8,000.00	663.29	108.29%	8,663.29	8,000.00	663.29	108.29%
3403 · Reservoirs	0.00				3,501.43	5,000.00	-1,498.57	70.03%	3,501.43	5,000.00	-1,498.57	70.03%
<b>Total 3400 · MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>				<b>54,626.23</b>	<b>78,000.00</b>	<b>-23,373.77</b>	<b>70.03%</b>	<b>54,626.23</b>	<b>78,000.00</b>	<b>-23,373.77</b>	<b>70.03%</b>
<b>3500 · OTHER EXPENSES</b>												
3501 · Utilities	0.00				5,969.47	7,000.00	-1,030.53	85.28%	5,969.47	7,000.00	-1,030.53	85.28%
3502 · Uniforms	0.00				4,159.02	5,000.00	-840.98	83.18%	4,159.02	5,000.00	-840.98	83.18%
3503 · Communications	0.00				11,035.75	15,800.00	-4,764.25	69.85%	11,035.75	15,800.00	-4,764.25	69.85%
3504 · USA & Other Services	0.00				3,207.16	4,000.00	-792.84	80.18%	3,207.16	4,000.00	-792.84	80.18%
3505 · Miscellaneous	0.00				10,474.39	11,200.00	-725.61	93.52%	10,474.39	11,200.00	-725.61	93.52%
3506 · Training	0.00				669.98	3,000.00	-2,330.02	22.33%	669.98	3,000.00	-2,330.02	22.33%
<b>Total 3500 · OTHER EXPENSES</b>	<b>0.00</b>				<b>35,515.77</b>	<b>46,000.00</b>	<b>-10,484.23</b>	<b>77.21%</b>	<b>35,515.77</b>	<b>46,000.00</b>	<b>-10,484.23</b>	<b>77.21%</b>
4100 · LABOR - FISHERIES	654,303.10	729,413.00	-75,109.90	89.7%	0.00				654,303.10	729,413.00	-75,109.90	89.7%
<b>4200 · VEHICLES &amp; EQUIP - FISHERIES</b>												
4270 · Vehicle/Equip Mtce	18,570.90	30,000.00	-11,429.10	61.9%	0.00				18,570.90	30,000.00	-11,429.10	61.9%

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2020 - June 2021

	Fisheries				Operations				TOTAL			
	Jul '20 - May 21	Budget	\$ Over / (Under)		Jul '20 - May 21	Budget	\$ Over / (Under)		Jul '20 - May 21	Budget	\$ Over / (Under)	
			Budget	% of Budget			Budget	% of Budget			Budget	% of Budget
4280 · Fixed Capital	2,221.03	15,000.00	-12,778.97	14.81%	0.00				2,221.03	15,000.00	-12,778.97	14.81%
4290 · Miscellaneous	0.02	2,500.00	-2,499.98	0.0%	0.00				0.02	2,500.00	-2,499.98	0.0%
<b>Total 4200 · VEHICLES &amp; EQUIP - FISHERIES</b>	<b>20,791.95</b>	<b>47,500.00</b>	<b>-26,708.05</b>	<b>43.77%</b>	<b>0.00</b>				<b>20,791.95</b>	<b>47,500.00</b>	<b>-26,708.05</b>	<b>43.77%</b>
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	1,943.85	3,000.00	-1,056.15	64.8%	0.00				1,943.85	3,000.00	-1,056.15	64.8%
4222 · Fish Projects Maintenance	7,669.16	20,000.00	-12,330.84	38.35%	0.00				7,669.16	20,000.00	-12,330.84	38.35%
<b>Total 4220 · CONTRACT LABOR - FISHERIES</b>	<b>9,613.01</b>	<b>23,000.00</b>	<b>-13,386.99</b>	<b>41.8%</b>	<b>0.00</b>				<b>9,613.01</b>	<b>23,000.00</b>	<b>-13,386.99</b>	<b>41.8%</b>
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	3,418.95	7,000.00	-3,581.05	48.84%	0.00				3,418.95	7,000.00	-3,581.05	48.84%
<b>Total 4300 · MATERIALS/SUPPLIES - FISHERIES</b>	<b>3,418.95</b>	<b>7,000.00</b>	<b>-3,581.05</b>	<b>48.84%</b>	<b>0.00</b>				<b>3,418.95</b>	<b>7,000.00</b>	<b>-3,581.05</b>	<b>48.84%</b>
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	3,010.18	3,500.00	-489.82	86.01%	0.00				3,010.18	3,500.00	-489.82	86.01%
<b>Total 4500 · OTHER EXPENSES - FISHERIES</b>	<b>3,010.18</b>	<b>3,500.00</b>	<b>-489.82</b>	<b>86.01%</b>	<b>0.00</b>				<b>3,010.18</b>	<b>3,500.00</b>	<b>-489.82</b>	<b>86.01%</b>
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				6,412.90	12,400.00	-5,987.10	51.72%	6,412.90	12,400.00	-5,987.10	51.72%
5001 · Director Mileage	0.00				16.37	600.00	-583.63	2.73%	16.37	600.00	-583.63	2.73%
5100 · Legal	0.00				63,144.45	75,000.00	-11,855.55	84.19%	63,144.45	75,000.00	-11,855.55	84.19%
5101 · Audit	0.00				22,364.88	22,750.00	-385.12	98.31%	22,364.88	22,750.00	-385.12	98.31%
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				18,244.55	33,326.00	-15,081.45	54.75%	18,244.55	33,326.00	-15,081.45	54.75%
5310 · Postage/Office Exp	0.00				6,003.70	5,000.00	1,003.70	120.07%	6,003.70	5,000.00	1,003.70	120.07%
5311 · Office Equip/Leases	0.00				7,084.55	9,700.00	-2,615.45	73.04%	7,084.55	9,700.00	-2,615.45	73.04%
5312 · Misc Admin Expenses	0.00				10,921.38	14,000.00	-3,078.62	78.01%	10,921.38	14,000.00	-3,078.62	78.01%
5313 · Communications	0.00				7,815.92	6,500.00	1,315.92	120.25%	7,815.92	6,500.00	1,315.92	120.25%
5314 · Utilities	0.00				8,265.89	9,737.00	-1,471.11	84.89%	8,265.89	9,737.00	-1,471.11	84.89%
5315 · Membership Dues	0.00				10,251.65	9,700.00	551.65	105.69%	10,251.65	9,700.00	551.65	105.69%
5316 · Admin Fixed Assets	0.00				2,986.29	3,000.00	-13.71	99.54%	2,986.29	3,000.00	-13.71	99.54%
5318 · Computer Consultant	0.00				16,750.21	16,500.00	250.21	101.52%	16,750.21	16,500.00	250.21	101.52%
5325 · Emp Training/Subscriptions	0.00				321.75	2,000.00	-1,678.25	16.09%	321.75	2,000.00	-1,678.25	16.09%
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				2,243.11	3,500.00	-1,256.89	64.09%	2,243.11	3,500.00	-1,256.89	64.09%
<b>Total 4999 · GENERAL &amp; ADMINISTRATIVE</b>	<b>0.00</b>				<b>182,827.60</b>	<b>230,713.00</b>	<b>-47,885.40</b>	<b>79.25%</b>	<b>182,827.60</b>	<b>230,713.00</b>	<b>-47,885.40</b>	<b>79.25%</b>
5299 · ADMIN LABOR	0.00				527,362.14	602,068.00	-74,705.86	87.59%	527,362.14	602,068.00	-74,705.86	87.59%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	6,629.75	25,000.00	-18,370.25	26.52%	0.00				6,629.75	25,000.00	-18,370.25	26.52%
5410 · Postage / Office Supplies	3,296.14	4,000.00	-703.86	82.4%	0.00				3,296.14	4,000.00	-703.86	82.4%
5411 · Office Equipment / Leases	3,909.06	6,518.00	-2,608.94	59.97%	0.00				3,909.06	6,518.00	-2,608.94	59.97%
5412 · Misc. Admin Expense	4,183.93	7,500.00	-3,316.07	55.79%	0.00				4,183.93	7,500.00	-3,316.07	55.79%
5413 · Communications	4,208.56	4,455.00	-246.44	94.47%	0.00				4,208.56	4,455.00	-246.44	94.47%
5414 · Utilities	4,450.84	5,243.00	-792.16	84.89%	0.00				4,450.84	5,243.00	-792.16	84.89%
5415 · Membership Dues	6,133.35	6,200.00	-66.65	98.93%	0.00				6,133.35	6,200.00	-66.65	98.93%
5416 · Admin Fixed Assets	1,606.99	3,000.00	-1,393.01	53.57%	0.00				1,606.99	3,000.00	-1,393.01	53.57%
5418 · Computer Consultant	9,020.34	9,000.00	20.34	100.23%	0.00				9,020.34	9,000.00	20.34	100.23%
5425 · Employee Education/Subscription	223.25	2,500.00	-2,276.75	8.93%	0.00				223.25	2,500.00	-2,276.75	8.93%



**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2020 - June 2021

	Fisheries				Operations				TOTAL			
	Jul '20 - May 21	Budget	\$ Over / (Under) Budget	% of Budget	Jul '20 - May 21	Budget	\$ Over / (Under) Budget	% of Budget	Jul '20 - May 21	Budget	\$ Over / (Under) Budget	% of Budget
5426 · Director Fees	3,453.10	6,700.00	-3,246.90	51.54%	0.00				3,453.10	6,700.00	-3,246.90	51.54%
5427 · Director Mileage	0.00	300.00	-300.00	0.0%	0.00				0.00	300.00	-300.00	0.0%
5430 · Travel	8.82	2,500.00	-2,491.18	0.35%	0.00				8.82	2,500.00	-2,491.18	0.35%
5431 · Public Information	1,312.83	1,500.00	-187.17	87.52%	0.00				1,312.83	1,500.00	-187.17	87.52%
5441 · Audit	12,042.62	12,250.00	-207.38	98.31%	0.00				12,042.62	12,250.00	-207.38	98.31%
5443 · Liab & Property Ins	9,823.99	17,745.00	-7,921.01	55.36%	0.00				9,823.99	17,745.00	-7,921.01	55.36%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	<b>70,303.57</b>	<b>114,411.00</b>	<b>-44,107.43</b>	<b>61.45%</b>	<b>0.00</b>				<b>70,303.57</b>	<b>114,411.00</b>	<b>-44,107.43</b>	<b>61.45%</b>
5499 · ADMIN LABOR-FISHERIES	208,441.17	247,776.00	-39,334.83	84.13%	0.00				208,441.17	247,776.00	-39,334.83	84.13%
5510 · Integrated Reg. Water Mgt Plan	0.00				2,113.99	5,000.00	-2,886.01	42.28%	2,113.99	5,000.00	-2,886.01	42.28%
<b>6000 · SPECIAL PROJECTS</b>												
6062 · SCADA	0.00				111,571.44	150,000.00	-38,428.56	74.38%	111,571.44	150,000.00	-38,428.56	74.38%
6090 · COMB Office Building	0.00				160,517.96	300,000.00	-139,482.04	53.51%	160,517.96	300,000.00	-139,482.04	53.51%
6096 · SCC Structure Rehabilitation	0.00				257,752.60	440,000.00	-182,247.40	58.58%	257,752.60	440,000.00	-182,247.40	58.58%
6097 · GIS and Mapping	0.00				6,325.00	10,000.00	-3,675.00	63.25%	6,325.00	10,000.00	-3,675.00	63.25%
6100 · Watershed Sanitary Survey	0.00				13,432.49	70,000.00	-56,567.51	19.19%	13,432.49	70,000.00	-56,567.51	19.19%
6105 · ROW Management Program	0.00				355.66	20,000.00	-19,644.34	1.78%	355.66	20,000.00	-19,644.34	1.78%
6120 · Lake Cachuma Secured Pipeline	0.00				105,621.99	300,000.00	-194,378.01	35.21%	105,621.99	300,000.00	-194,378.01	35.21%
6135 · SCC San Jose Creek Pipe Stabili	0.00				1,736.00	0.00	1,736.00	100.0%	1,736.00	0.00	1,736.00	100.0%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	190,000.00	-190,000.00	0.0%	0.00	190,000.00	-190,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				10,814.50	150,000.00	-139,185.50	7.21%	10,814.50	150,000.00	-139,185.50	7.21%
6138 · Cachuma Watershed Mgmt Study	0.00				15,396.99	0.00	15,396.99	100.0%	15,396.99	0.00	15,396.99	100.0%
<b>Total 6000 · SPECIAL PROJECTS</b>	<b>0.00</b>				<b>683,524.63</b>	<b>1,630,000.00</b>	<b>-946,475.37</b>	<b>41.93%</b>	<b>683,524.63</b>	<b>1,630,000.00</b>	<b>-946,475.37</b>	<b>41.93%</b>
<b>6200 · FISHERIES ACTIVITIES</b>												
6201 · FMP Implementation	29,967.43	35,000.00	-5,032.57	85.62%	0.00				29,967.43	35,000.00	-5,032.57	85.62%
6202 · GIS and Mapping	4,520.00	10,000.00	-5,480.00	45.2%	0.00				4,520.00	10,000.00	-5,480.00	45.2%
6205 · USGS Stream Gauge Program	53,713.62	105,000.00	-51,286.38	51.16%	0.00				53,713.62	105,000.00	-51,286.38	51.16%
6207 · Oak Tree Restoration Program	13,580.74	25,000.00	-11,419.26	54.32%	0.00				13,580.74	25,000.00	-11,419.26	54.32%
<b>Total 6200 · FISHERIES ACTIVITIES</b>	<b>101,781.79</b>	<b>175,000.00</b>	<b>-73,218.21</b>	<b>58.16%</b>	<b>0.00</b>				<b>101,781.79</b>	<b>175,000.00</b>	<b>-73,218.21</b>	<b>58.16%</b>
<b>6300 · HABITAT ENHANCEMENT</b>												
6303 · Tributary Projects Support	137.92	10,000.00	-9,862.08	1.38%	0.00				137.92	10,000.00	-9,862.08	1.38%
6315 · Quiota Creek Crossing 8	36,640.16	0.00	36,640.16	100.0%	0.00				36,640.16	0.00	36,640.16	100.0%
<b>Total 6300 · HABITAT ENHANCEMENT</b>	<b>36,778.08</b>	<b>10,000.00</b>	<b>26,778.08</b>	<b>367.78%</b>	<b>0.00</b>				<b>36,778.08</b>	<b>10,000.00</b>	<b>26,778.08</b>	<b>367.78%</b>
7007 · INTEREST EXPENSE-EPFP	0.00				10,611.34	0.00	10,611.34	100.0%	10,611.34	0.00	10,611.34	100.0%
<b>Total Expense</b>	<b>\$ 1,108,441.80</b>	<b>\$ 1,357,600.00</b>	<b>\$ (249,158.20)</b>	<b>81.65%</b>	<b>\$ 2,353,024.00</b>	<b>\$ 3,806,921.00</b>	<b>\$ (1,453,897.00)</b>	<b>61.81%</b>	<b>\$ 3,461,465.80</b>	<b>\$ 5,164,521.00</b>	<b>\$ (1,703,055.20)</b>	<b>67.02%</b>
<b>Net Surplus / Deficit</b>	<b>\$ 311,910.80</b>	<b>\$ -</b>	<b>\$ 311,910.80</b>	<b>100.0%</b>	<b>\$ 1,090,464.79</b>	<b>\$ -</b>	<b>\$ 1,090,464.79</b>	<b>100.0%</b>	<b>\$ 1,402,375.59</b>	<b>\$ -</b>	<b>\$ 1,402,375.59</b>	<b>100.0%</b>

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	June 28, 2021
Submitted by:	Janet Gingras

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**SUBJECT:** Investment Report – May 31, 2021

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### **RECOMMENDATION**

The Board of Directors receive and file the Cachuma Operation & Maintenance Board Investment Report as of May 31, 2021.

### **DISCUSSION**

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

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

#### Unrestricted Cash

Unrestricted cash exceeding current operating needs is invested in LAIF to generate interest income. The average effective yield rate, as of May 2021, is reported at 0.315%.

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

Table 1			
Unrestricted Reserve Funds			
Local Agency Investment Fund (LAIF)			
Previous Balance	4/30/2021	\$	1,592,779.14
(+) Deposits/Credits			-
(-) Checks/Withdrawals			-
Statement Balance	5/31/2021	\$	1,592,779.14

#### Restricted Cash


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

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

Table 2			
Restricted Reserve Funds			
American Riviera Bank Renewal Account			
Previous Balance	4/30/2021	\$	44,783.30
(+) Deposits/Credits			-
(-) Checks/Withdrawals			-
Statement Balance	5/31/2021	\$	44,783.30
American Riviera Bank Warren Act Trust Fund			
Previous Balance	4/30/2021	\$	80,630.72
(+) Deposits/Credits			-
(-) Checks/Withdrawals			-
Statement Balance	5/31/2021	\$	80,630.72

**STATEMENT**

The above statement of investment activity for the month of May 2021, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank and LAIF investments of this agency for the period indicated.

  
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 Secretary

Cachuma Operation & Maintenance Board

**Paid Claims**

As of May 31, 2021

Date	Num	Name	Memo	Amount
<b>1050 - General Fund</b>				
05/10/2021	28499	Aqua-Flo Supply	Supplies (Ops)	-48.47
05/10/2021	28500	Association of Ca Water Agencies/JPIA	June Health Benefits Premium	-30,783.05
05/10/2021	28501	AT&T	Long Distance 3/26-04/27/21	-38.24
05/10/2021	28502	Coastal Copy, LP	Copier Maintenance - Kyocera Taskalfa 3253ci & 6052ci	-342.95
05/10/2021	28503	Cori Hayman	Director Meeting Fees April 2021	-150.00
05/10/2021	28504	Culligan of Sylmar	RO Rental April 2021	-30.85
05/10/2021	28505	Earth Systems	Glen Annie Road - Concrete Testing (Ops)	-687.00
05/10/2021	28506	Farm Supply Company	Supplies & Oak Tree Restoration Program (Fisheries)	-476.07
05/10/2021	28507	Federal Express	Shipping (Ops)	-229.62
05/10/2021	28508	Home Depot Credit Services	Supplies (Ops & Fisheries)	-869.02
05/10/2021	28509	Kristen Shedd	Director Meeting Fees April 2021	-300.00
05/10/2021	28510	Lauren W. Hanson	Director Meeting Fees April 2021	-450.00
05/10/2021	28511	Levi H. Miller	Santa Ynez River Berm Monitoring	-1,764.00
05/10/2021	28512	MarBorg Industries	Portable Facilities (Ops)	-220.04
05/10/2021	28513	Olympus America Inc	Digital Thickness Gage & Software (Ops)	-2,865.56
05/10/2021	28514	Polly Holcombe	Director Meeting Fees April 2021	-512.00
05/10/2021	28515	Powell Garage	2018 Ford F-150 Service (Fisheries)	-93.04
05/10/2021	28516	Premiere Global Services	Conference Calls April 2021	-26.62
05/10/2021	28517	Southern California Edison	Electricity - Outlying Stations (Ops)	-14.67
05/10/2021	28518	Sun Coast Rentals	Equipment Rental (Ops)	-348.00
05/10/2021	28519	Trenchalk Network Services, Inc.	Network Support Billing 4/01/20-4/30/21	-3,415.35
05/10/2021	28520	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-171.70
05/10/2021	28521	Wright Express Fleet Services	Fleet Fuel April 2021	-2,898.13
05/17/2021	28522	Cox Communications Santa Barbara	Business Internet May 2021	-155.41
05/17/2021	28523	Farm Supply Company	Equipment (Fisheries)	-172.39
05/17/2021	28524	Milpas Rental	Ortega Maintenance (Ops)	-181.44
05/17/2021	28525	Southern California Edison	Electricity - Outlying Stations (Ops)	-14.17
05/17/2021	28526	Sparkletts	Operations Safety	-150.60
05/17/2021	28527	SWRCB - DWOCP	Waller, Justin D2 Certification	-80.00
05/17/2021	28528	Verizon Wireless	Cell Phones, Modems & iPads (Ops)	-1,028.01
05/24/2021	28529	Aqua-Flo Supply	Supplies (Ops)	-154.22
05/24/2021	28530	Bend Genetics, LLC	Lake Cachuma Water Quality Sampling	-590.00
05/24/2021	28531	Big Brand Tire Company	2005 Ford F-550 Tire Replacement (Ops)	-323.29
05/24/2021	28532	Carpinteria Valley Lumber Company	Supplies (Ops)	-15.34
05/24/2021	28533	Cushman Contracting Corp.	EPFP Pumping System - Pay Req #85	-3,500.00
05/24/2021	28534	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Sampling	-2,000.00
05/24/2021	28535	Farm Supply Company	Oak Tree Restoration Program - Tree Stakes	-308.81
05/24/2021	28536	Federal Express	Shipping (Ops)	-114.64
05/24/2021	28537	Geosyntec Consultants	Watershed Sanitary Survey Project	-5,128.37
05/24/2021	28538	Illumina, Inc.	O. mykiss Genotyping Kits (Fisheries)	-14,729.21
05/24/2021	28539	Impulse Advanced Communications	Impulse Switch Install and Phone Service - Main Office	-4,453.65
05/24/2021	28540	Kenneth A. Knight, Consulting	Oak Tree Restoration Program - Arborist Services	-300.00
05/24/2021	28541	PG&E	Electricity - North Portal & Tecolote Tunnel	-375.50
05/24/2021	28542	Wells Fargo Vendor Fin Serv	Copier Lease - Kyocera Taskalfa 6052ci	-276.23
05/24/2021	28543	American Riviera Bank - Card Service	Staff Gauges, Submersible and Trash Pumps, SCADA Supplies, Annual Uniform Purchase (All Staff)	-9,746.64
05/26/2021	052621A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
05/26/2021	052621B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
Total 1050 - General Fund				<u>-129,010.26</u>
<b>TOTAL</b>				<b><u>-129,010.26</u></b>

**Approved for Payment**

Director \_\_\_\_\_

Director \_\_\_\_\_

Director \_\_\_\_\_

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# CACHUMA OPERATION & MAINTENANCE BOARD

## Fisheries Committee Meeting

Wednesday, June 9, 2021

11:00 am

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### AGENDA

Chair: Director Hanson

Member: Director Hayman

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter on the agenda and within the Committee's jurisdiction*)
3. Consultant Scopes of Work (SOW) and Draft Professional Services Agreements for Fiscal Year 2021-22 (*for information and possible recommendation*)
4. Draft Cachuma Project Master Contract Renewal Fund and Warren Act Trust Fund – Long Term and Annual Plan / Santa Barbara County Betterment Fund (*for information and possible recommendation*)
5. Update on Recent Fisheries Division Activities (*for information and possible recommendation*)
  - Field Observations
  - Coordination with Reclamation
6. Adjournment

#### NOTICE TO THE PUBLIC

**Public Comment:** The public is welcome to attend and observe the meeting via remote access. 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 805 / 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

## Operations Committee Meeting Thursday, June 10, 2021 10:00 am

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### AGENDA

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

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Post-Wildfire Watershed Recovery - Drone Reforestation Technology (*for information and possible recommendation*)
4. Engineering / Operations Division Infrastructure Improvement Projects (IIP) Update (*for information and possible recommendation*)
  - Lake Cachuma Water Quality Activities / Presentation
  - Lake Cachuma Elevation Projections
  - Secured Pipeline Project
  - Isolation Valve / Lower Reach Lateral Rehabilitation Project
  - SCADA PLC Replacement Project
5. Adjournment

#### NOTICE TO THE PUBLIC

**Public Comment:** The public is welcome to attend and observe the meeting via remote access. A public comment period will be included at the meeting where any member of the public may address the Committee on any subject matter 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

## BOARD MEMORANDUM

Date:	June 28, 2021
Submitted by:	Janet Gingras

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**SUBJECT:** Fiscal Year 2021-22 Elections and Appointments of Cachuma Operation and Maintenance Board

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### **SUMMARY:**

Each year during this time, the Board of Directors conducts the annual election of new officers and votes on appointed positions to serve the Board for the upcoming fiscal year. The newly elected officers and appointed positions will become effective July 1, 2021 and will remain in effect until June 30, 2022. The list below outlines the Officers to be elected and the appointments to be made at this time, as well as the current holders of each office and the slate of current appointees.

- a. Election of President  
Currently Director Holcombe
  - b. Election of Vice-President  
Currently Director Sneddon
- 
- c. Appointment of ACWA/JPIA Representative and Alternate  
Currently Director Sneddon and Janet Gingras
  - d. Appointment of General Counsel  
Currently William Carter - Musick, Peeler & Garrett LLP
  - e. Appointment of Secretary of the Board  
Currently General Manager, Janet Gingras
  - f. Appointment of Treasurer and Auditor-Controller  
Currently Administrative Manager/CFO, Edward Lyons

### **RECOMMENDATION:**

The Board shall elect by nomination and roll call vote one of its members to serve as President and one of its members to serve as Vice President.

The Board shall make each appointment by a motion and roll call vote of the Board.

### **LIST OF EXHIBITS:**

N/A

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	June 28, 2021
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT:**    **Scopes of Work and Sample Professional Services Agreement for Fiscal Year 2021-22 for Fisheries Division Consultants**

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**RECOMMENDATION:**

The Board of Directors receive and file the Fiscal Year 2021-22 Scopes of Work and sole-source justifications supporting execution of the corresponding Professional Services Agreements for Fisheries Division Consultants.

**SUMMARY:**

Annually, Scopes of Work for Fisheries Division consultants are drafted and reviewed prior to execution of the corresponding Professional Services Agreements. Consultants assist COMB staff in implementation of compliance measures affiliated with the Cachuma Project Biological Opinion (2000), Lower Santa Ynez River Fish Management Plan (2000), Biological Assessment (1999 and 2000), and EIR/EIS (2004). Consultant tasks are developed within the Scopes of Work and carefully managed to assure timely delivery of the requested work product. Scopes of Work for Fiscal Year 2021-22 are attached for review; the associated financial obligation has been incorporated in the approved COMB budget for this fiscal year.

Specified consultants were chosen due to their expertise, legacy knowledge of the Cachuma Project and associated Biological Opinion, long-term and excellent service, completed engineering and design work where annual monitoring and reporting are required, or in-depth project specific design knowledge. Per the established COMB procurement policy, consultant sole-source justifications have been provided as supporting documentations.

**FINANCIAL IMPACT:**

Projected expenditures for the proposed Scopes of Work are reflected in the adopted Fiscal Year 2021-22 COMB budget.

**COMMITTEE STATUS:**

The Fisheries Committee reviewed on 6/9/21 the Fiscal Year 2021-22 Scopes of Work and sole-source justifications supporting execution of the corresponding Professional Services Agreements for Fisheries Division Consultants and forwards to the Board with a recommendation to receive and file.

**LIST OF EXHIBITS:**

1. Scopes of Work for Fisheries Division Consultants - Fiscal Year 2021-22
2. Sample Professional Services Agreement
3. Consultant Sole-Source Justifications

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**HDR Engineering, Inc.**  
**Cachuma Project Fisheries Assistance**

**Exhibit A**

**Period of Performance and Scope of Work**  
**Fiscal Year 2021-2022**  
**July 1, 2021 through June 30, 2022**

**I. Period of Performance**

The following scope of work is to be completed by HDR Engineering within the Fiscal Year beginning July 1, 2021 and ending June 30, 2022 (FY 2021-2022, or FY22).

**II. Scope of Work FY 2021-2022**

**TASK 1: BO/FMP implementation and technical support      Task Estimated Cost: \$ 4,000**

This task provides support for actions outlined in the Cachuma Project Biological Opinion (BO) and Lower Santa Ynez River Fish Management Plan (FMP).

Task 1.1 BO/FMP Compliance Tasks and Support *Estimated Cost: \$ 1,000*

HDR Engineering will provide assists as needed with the ongoing BO/FMP compliance and implementation efforts. This may include technical and analytical support and review of the fisheries monitoring programs and any proposed study plans.

Task 1.2 Fisheries monitoring program support *Estimated Cost: \$ 3,000*

HDR Engineering will review, evaluate, and develop technical elements of fish passage and fisheries related monitoring programs being implemented by COMB. Activities are anticipated to include: background research; program monitoring and design descriptions; and concept schematics. Data review, synthesis, and meeting attendance will be performed as directed by COMB.

**TASK 2: Project Operation and Maintenance      Task Estimated Cost: \$ 6,100**

This task provides technical assistance with operation, maintenance and performance reporting of completed tributary fish passage projects designed by HDR.

Task 2.1 Quiota Creek Crossing 3 – O&M technical *Estimated Cost: \$ 700*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 3 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and

instream elements; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.2 Quiota Creek Crossing 4 – O&M technical

*Estimated Cost: \$ 700*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 4 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and instream elements; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.3 Quiota Creek Crossing 0A – O&M technical

*Estimated Cost: \$ 1,400*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 0A restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and instream elements; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.4 Quiota Creek Crossing 5 – O&M technical

*Estimated Cost: \$ 700*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 5 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and instream elements; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.5 Quiota Creek Crossing 9 – O&M technical

*Estimated Cost: \$ 700*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 9 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and instream elements; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.6 Quiota Creek Crossing 8 – O&M technical

*Estimated Cost: \$ 1,400*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the Quiota Creek Crossing 8 restoration project. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and instream elements; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

Task 2.7 South Side Erosion at QC Crossing 8 – O&M technical

*Estimated Cost: \$ 500*

HDR Engineering will provide technical assistance to COMB corresponding to the performance evaluation of the South Side Erosion Control and Reforestation Project at Quiota Creek Crossing 8. Tasks are anticipated to include: one site visit per year to survey the facility; refinement of monitoring methods and procedures; hydraulic review of the grade control structures and instream elements; review of technical data collected by COMB; and assistance in preparation of an annual performance evaluation (engineering and fisheries) report. Activities will be performed by an Engineer as directed by COMB.

**TASK 3: Habitat Improvements**

**Task Estimated Cost: \$ 10,000**

This task provides design support and engineering oversight for specific proposed or in construction tributary fish passage projects designed by HDR.

Task 3.1 Tributary Projects – technical support

*Estimated Cost: \$ 10,000*

HDR Engineering will support COMB in the implementation of fish passage projects along Quiota creek synonymous with the results presented in the Quiota Creek Watershed Fish Passage Enhancement Plan. Activities conducted under this task and as directed by COMB shall include: support of grant proposal development; preparation of concept level Engineer’s construction drawings and cost opinions; preparation of project descriptions and development of technical data; and coordination with agencies and local governments in regards to fish passage guidelines.

**TOTAL ESTIMATED TASK ORDER COST:**

**\$ 20,100**

**Kenneth A. Knight Consulting, LLC  
Oak Tree Restoration Specialist  
Cachuma Project Fisheries Assistance**

**Exhibit A**

**Period of Performance and Scope of Work  
Fiscal Year 2021-2022  
July 1, 2021 through June 30, 2022**

**I. Period of Performance**

The following scope of work is to be completed by Kenneth A. Knight Consulting LLC, within the Fiscal Year beginning July 1, 2021 and ending June 30, 2022 (FY 2021-2022, or FY22).

**II. Scope of Work FY 2021-2022**

Cachuma Operation and Maintenance Board (COMB) with assistance from the U.S. Bureau of Reclamation (Reclamation) Bradbury Dam staff will perform all of the irrigation, maintenance, monitoring, mapping and surveying of oak trees in and around Lake Cachuma that were planted for mitigation due to the Lake Surcharge Project. Oak trees have been planted at three locations: Storke Flats and four locations below Bradbury Dam. Guidance with this effort will be conducted by Kenneth Knight, a registered consulting Arborist with a specialization in oak trees, who will assure that the maintenance, monitoring, and reporting are carried out to the best of our collective abilities and knowledge. The consultant will be required to visit the site as needed and participate in site visits with COMB management and Reclamation personnel. Specific tasks are as follows:

**Task 1: Cachuma Oak Tree Restoration Program Plan** **Task Estimated Cost: \$500**  
Assist the COMB staff and COMB Board Lake Cachuma Oak Tree Program Committee in developing the Cachuma Lake Oak Tree Restoration Program 5-Year Plan that will take us to the end of the program in 2025 and will evolve with time, experience, and identified tasks.

**Task 2: Oak Tree General Maintenance** **Task Estimated Cost: \$1,000**  
Continue to guide as needed the COMB staff on general maintenance tasks for the mitigated oak trees at Bradbury Dam and Storke Flats that includes watering (irrigation), weeding, cage maintenance, mulching, base of tree maintenance, and predator management.

**Task 3: Oak Tree Inventory, Mapping and Reporting** **Task Estimated Cost: \$1,500**  
Continue to give guidance on inventory and mapping of the planted oak trees at all locations. Also, the consultant will co-author the Annual Progress Report for the Lake Cachuma Oak Tree Restoration Program



**Task 4: Additional Oak Tree Planting Plan**

**Task Estimated Cost: \$500**

Assist in developing and implementing a plan for planting of additional oak trees within designated restoration areas as prescribed by the COMB Lake Cachuma Oak Tree Program Committee and described in the 2-Year Plan that would be planted in the Fiscal Year 2021-2022 and Fiscal Year 2022-2023, depending on the direction of the COMB Board Lake Cachuma Oak Tree Program Committee, weather conditions, and availability of funds.

**Task 5: General Arborist Services**

**Task Estimated Cost: \$1,500**

Perform general arborist services associated with restoration, maintenance and cleanup projects.

**TOTAL ESTIMATED TASK ORDER COST:**

**\$ 5,000**

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# PROFESSIONAL SERVICES AGREEMENT

## CACHUMA OPERATION & MAINTENANCE BOARD

3301 Laurel Canyon Road  
Santa Barbara, CA 93105-2017  
Telephone (805) 687-4011 - FAX (805) 569-5825

Important terms of this **Professional Services Agreement** are printed on the following pages. For your protection, make sure that you read and understand all provisions before signing. The terms and conditions are incorporated in this document and will constitute a part of the contract between the parties when signed.

**TO:** **Kenneth A. Knight Consulting, LLC**                      **DATE:** **July 01, 2021**  
69 Calaveras Avenue                                              **PSA #**                      21-22-01  
Goleta, CA 93117  
**Email:** kennethknight@cox.net  
**Phone:** (805) 968-8523

Project: **Lake Cachuma Oak Tree Restoration Program - Fiscal Year 2021-22 Scope of Work**

Cachuma Operation & Maintenance Board (“COMB”) retains **Kenneth A. Knight Consulting, LLC**, (Consultant), and Consultant agrees to provide services per COMB’s attached Scope of Work (incorporated herein) dated July 01, 2021.

Contract Price:           \$5,000.00           (Time and Materials, Maximum Not-to-Exceed)  
Completion Date:           June 30, 2022          

**Instructions:** Please sign and return along with the appropriate insurance documentation. Upon acceptance by the Cachuma Operation & Maintenance Board, a copy will be signed by its authorized representative, and promptly returned to you. Insert below the names of your authorized representatives.

**Accepted:**  
**Cachuma Operation & Maintenance Board,**  
**a Joint Powers Agency**

**Consultant:**  
**Kenneth A. Knight Consulting, LLC**

By: \_\_\_\_\_  
Print  
Name: Janet L. Gingras  
Title: General Manager  
Date: \_\_\_\_\_

By: \_\_\_\_\_  
Print  
Name: Kenneth A. Knight  
Title: Consultant  
Date: \_\_\_\_\_

Other authorized representatives:  
Timothy Robinson, Fisheries Division  
Manager  
\_\_\_\_\_

On-site representatives:  
\_\_\_\_\_  
\_\_\_\_\_

# CACHUMA OPERATION & MAINTENANCE BOARD

## PROFESSIONAL SERVICES AGREEMENT

### TERMS AND CONDITIONS

**Scope of Services** - Consultant shall provide professional services to COMB, in accordance with COMB's attached Scope of Work, in a diligent and professional manner. Consultant warrants that its services shall be performed, within the limits prescribed by COMB, in a manner consistent with the level of care and skill ordinarily exercised by other professionals in similar circumstances at the time its services are performed.

**Task Orders** - If Consultant proposes to engage in one or more separate Task Orders, then the parties shall approve each such Task Order with a mutually-agreed upon Scope of Work attached as Exhibit "A" thereto. Each Task Order shall include a description of the services to be performed by Consultant, a maximum not-to-exceed cost to complete the services, the schedule for performance, and other terms and conditions the parties deem appropriate. No Task Order shall be binding or enforceable unless and until it has been properly approved and executed by both parties. Each properly executed Task Order shall become a separate supplemental agreement to this Agreement, and subject to all of the terms of this Agreement unless otherwise noted in the Task Order. It is agreed that the parties are not required pursuant to this Agreement to enter into a minimum number of, or any, Task Orders.

**Term of Agreement** - Unless otherwise earlier terminated as specified elsewhere herein, this Agreement shall commence on the date first set forth above, and shall expire on the completion date set forth above.

**Authorized Representatives** - Consultant shall not accept direction or orders from any person other than COMB's General Manager or any COMB authorized representative(s) listed on the signature page hereto.

#### **Payment Terms -**

A. Consultant shall provide professional services on a time and materials basis, in accordance with COMB's fees and costs schedule attached to COMB's Scope of Work or Task Order, if any, for the maximum not-to-exceed amount stated herein or in the Task Order. The maximum not-to-exceed amount shall include all fees, costs and expenses to be paid to Consultant.

B. Invoices shall be submitted to COMB on a monthly basis. Invoices shall include the categories of Consultant's employees who perform services, the number of hours spent performing services, a description of the services, the hourly rate for each employee and the total compensation earned for that month. Upon COMB's request, Consultant shall include with the invoice a detailed verification, including accounting records and employee time records, of the work actually performed and costs incurred.

C. COMB shall pay Consultant within thirty (30) days after receipt of Consultant's invoices, with the exception of any disputed amount(s) which may be withheld until resolution of the dispute. If COMB has reasonable grounds for believing that Consultant will be unable to materially perform the services under this Agreement or any Task Order, or there exists or may exist a claim against Consultant or COMB arising out of the negligence or intentional acts of Consultant or Consultant's material breach of any provision of this Agreement, then COMB may withhold payment of any amount payable to Consultant which is directly related to such negligence or breach.

D. No payment made pursuant to this Agreement shall be conclusive evidence of Consultant's performance of the Agreement, either wholly or in part, and no payment shall be construed to be an acceptance of Consultant's work.

**Changes To Work, Method, Cost, etc.** - Any change in the Scope of Work, method of performance, nature of materials or price thereof, or any other matter materially affecting the performance or nature of the work, will not be paid for or accepted unless such change, deletion or addition is approved in advance, in writing, or by a supplemental or amended Task Order executed by COMB's General Manager or authorized representative listed hereto.

**Independent Contractor** - The parties, in the performance of services under this Agreement, will be acting in an independent contractor relationship and not as agents, employees, or partners of one another. It is the express intention of the parties that Consultant is an independent contractor and not COMB's employee; and that the employees of Consultant, and any of Consultant's sub-consultants and their respective employees, are not COMB employees and are not entitled to any of the rights, benefits or privileges attributable to COMB employees. Consultant shall have control of the means, methods and details of performance of its work and services and shall only be subject to the general direction and supervision of COMB's General Manager or other authorized representative as set forth above to ensure the results contracted for are achieved.

**Writings And Reports** - Consultant agrees that no drafts, writings, reports, records, notes, data, work product, graphics, lists, images, information or communications (collectively "writings") developed, prepared or assembled by Consultant pursuant to this Agreement, or any information made available to Consultant by COMB, shall be revealed, disseminated, or made available by Consultant to any third party without the prior written consent of COMB, unless otherwise required by subpoena or applicable law.

**Termination of Agreement -**

A. Termination Without Cause. COMB at any time may terminate this Agreement or any Task Order for any reason, without cause and without penalty, upon providing to Consultant thirty (30) days' prior written notice of such termination. Such termination shall not relieve COMB from responsibility for payment for services rendered by Consultant prior to the date of termination, but shall relieve COMB of its obligations for full payment of compensation due under this Agreement or a Task Order for Consultant's services rendered after the notice of termination.

B. Termination With Cause. COMB may terminate this Agreement or any Task Order for cause, effective immediately upon providing written notice to Consultant, based upon the occurrence of any of the following events: (1) material breach of this Agreement, Task Order or Task by Consultant; (2) abandonment or lack of diligence in performance of the work by Consultant; (3) cessation, revocation or expiration of any license needed by Consultant to provide services hereunder; (4) failure of Consultant to substantially comply with any federal, state or local law or regulation applicable to the work hereunder; (5) filing by or against Consultant of any petition under any law for relief of debtors; and (6) conviction of Consultant or its principal representative or personnel of any crime other than minor traffic offenses.

C. Reletting of Work. In the event of termination as provided in this section, COMB without penalty may relet the work to another Consultant or perform such work itself.

**Completed Work** - In the event of completion or early termination of this Agreement, Consultant shall at COMB's request promptly surrender and turn over to COMB all completed work, work in progress, and all writings (as defined in the preceding paragraph) developed, prepared, assembled or acquired by Consultant during the performance of its services hereunder. Consultant may retain copies of its work product as a part of Consultant's record of professional activity. COMB acknowledges that its use of any incomplete work shall be at its own risk.

**Examination of Records** - Consultant agrees that COMB shall have access to and the right to examine at any reasonable time and on reasonable notice Consultant's writings, documents, papers and records,

including accounting records, relating to or involving this Agreement.

**Indemnification** - To the fullest extent permitted by law, Consultant shall defend, indemnify and hold COMB and its Governing Board members, officers, employees and agents from and against:

A. All claims, damages, lawsuits, actions, costs, expenses, losses or liabilities (including reasonable attorneys' fees and costs incurred in litigation) (hereinafter collectively "claims") of any persons which arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or its sub-consultants or others for whom Consultant is legally liable, in the performance (or actual or alleged nonperformance) of professional services under this Agreement. Consultant's obligations regarding COMB's defense under this paragraph shall include only the reimbursement of COMB's reasonable defense costs incurred to the extent of Consultant's judicially determined negligence.

B. Other than in the performance of professional services, all claims arising out of the performance of services or furnishing of materials, including but not limited to claims by the Consultant or its employees or sub-consultants or their employees for damages to persons or property, to the extent and in proportion of Consultant's negligence, recklessness or willful misconduct related to services under this Agreement.

C. All actions, proceedings, damages, costs, expenses, penalties, fines, or liabilities, in law or equity, of every kind and nature whatsoever, arising out of, resulting from, or on account of any violation by Consultant of any applicable federal, state or local governmental law or regulation related to services under this Agreement.

D. Submission of insurance certificates or other proof of insurance shall not relieve Consultant from liability under these provisions. Consultant's indemnification obligations herein shall apply whether or not Consultant's insurance policies shall have been determined to apply to any such claims. These indemnification obligations shall survive the expiration or termination of this Agreement or any Task Order.

**Laws, Regulations and Permits** – Consultant, at its expense, shall give all notices and obtain all permits required by law and comply with all laws, ordinances, rules and regulations pertaining to the conduct of the work. Consultant shall be liable for all violations of the law in connection with work furnished by Consultant. If Consultant observes that the drawings or specifications are at variance with any law or ordinance, rule or regulation, he/she shall promptly notify the COMB engineer in writing and any necessary changes shall be made by written instruction or change order. If Consultant performs any work knowing it to be contrary to such laws, ordinances, rules or regulations and without giving notice to COMB, Consultant shall bear all costs arising therefrom.

**Safety** - Consultant shall execute and maintain his/her work so as to avoid injury or damage to any person or property. In carrying out his/her work, Consultant shall at all times exercise all necessary precautions for the safety of employees appropriate to the nature of the work and the conditions or requirements under which the work is to be performed, and shall be in compliance with all applicable federal, state and local statutory and regulatory requirements including California Department of Industrial Relations (Cal/OSHA) regulations.

**Liability Insurance** - Consultant shall provide and maintain at all times during the performance of the services under this agreement, the following commercial general liability, professional liability and automobile liability insurance:

**Coverage** - Coverage shall be at least as broad as the following:

- a. Coverage for Professional Liability appropriate to the Consultant's profession

covering Consultant's negligent actions, errors or omissions. The retroactive date (if any) is to be no later than the effective date of this agreement.

- b. Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 0001) or insurer's equivalent.
- c. Insurance Services Office (ISO) Business Auto Coverage (Form CA 0001), covering Symbol 1 (any auto).

**Limits** - The Consultant shall maintain limits no less than the following:

1. Professional Liability - One million dollars (\$1,000,000) per claim and annual aggregate.
2. General Liability - One million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit or products-completed operations aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2503 or ISO CG 2504, or insurer's equivalent endorsement provided to COMB or the general aggregate limit and products-completed operations aggregate limit shall be twice the required occurrence limit.
3. Automobile Liability - One million dollars (\$1,000,000) for bodily injury and property damage each accident limit.

**Required Provisions** - The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. COMB, its Governing Board members, officers, employees and agents are to be given insured status (via ISO endorsement CG 2010, CG 2033, or insurer's equivalent for general liability coverage) as respects: liability arising out of the activities performed by or on behalf of Consultant; products and completed operations of Consultant; premises owned, occupied or used by the Consultant; and automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to COMB, its Governing Board members, officers, employees, or agents.
2. For any claims related to the project, Consultant's insurance shall be primary insurance as respects COMB, its Governing Board members, officers, employees, or agents. Any insurance, self-insurance, or other coverage maintained by COMB, its Governing Board members, officers, employees, or agents shall not contribute to it.
3. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to COMB, its Governing Board members, officers, employees, or agents.
4. Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
5. Each insurance policy required by this agreement shall state, or be endorsed to state, that coverage shall not be canceled by the insurance carrier or Consultant, except

after thirty (30) days (10 days for non-payment of premium) prior written notice by U.S. mail has been given to COMB.

Such liability insurance shall indemnify Consultant and his/her sub-consultants against loss from liability imposed by law upon, or assumed under contract by, Consultant or his/her sub-consultants for damages on account of such bodily injury (including death), property damage, personal injury, completed operations, and products liability.

The general liability policy shall cover bodily injury and property damage liability, owned and non-owned equipment, blanket contractual liability, completed operations liability, explosion, collapse, underground excavation, and removal of lateral support.

The automobile liability policy shall cover all owned, non-owned, and hired automobiles.

All of the insurance shall be provided on policy forms and through companies satisfactory to COMB.

**Deductibles and Self-Insured Retentions** - Any deductible or self-insured retention must be declared to and approved by COMB.

**Acceptability of Insurers** - Insurance is to be placed with insurers having met current A.M. Best rating of no less than A-:VII or equivalent or as otherwise approved by COMB.

**Workers' Compensation Insurance** - By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and he/she will comply with such provisions before commencing the performance of the work of this agreement.

**Workers' Compensation and Employer's Liability Insurance** - Consultant and all sub-consultants shall cover or insure under the applicable laws relating to workers' compensation insurance, all of their employees employed directly by them or through sub-consultants in carrying out the work contemplated by this Agreement or any Task Order, in accordance with the "*Workers' Compensation and Insurance Act*," Division IV of the Labor Code of the State of California and any Acts amendatory thereof. Consultant shall provide employer's liability insurance in the amount of at least \$1,000,000 per accident, \$1,000,000 disease policy limit, and \$1,000,000 disease each employee.

**Evidences of Insurance** - Prior to execution of the agreement, Consultant shall file with COMB a certificate of insurance (Acord Form 25-S or equivalent) signed by the insurer's representative evidencing the coverage required by this Agreement. Such evidence shall include an additional insured endorsement signed by the insurer's representative and evidence of waiver of rights of subrogation against COMB or its insurers. Such evidence shall also include confirmation that coverage includes or has been modified to include Required Provisions 1-5.

Consultant, upon demand of COMB, shall deliver to COMB such policy or policies of insurance and the receipts for payment of premiums thereon.

**Continuation of Coverage** - If any of the required coverages expire during the term of this Agreement, Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement and evidence of waiver of rights of subrogation against COMB or its insurers to COMB at least ten (10) days prior to the expiration date. Such evidence shall also include confirmation that coverage includes or has been modified to include Required Provisions 1 through 5.



**Sub-consultants** - In the event that Consultant employs other consultants (sub-consultants) as part of the services covered by this Agreement, it shall be Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified herein.

**Notices** - All notices, requests, demands and other communications under this Agreement shall be in writing and shall be deemed to have been duly given on the date of service if personally served or on the second day after mailing if mailed by first-class mail, registered or certified, return receipt requested, postage prepaid and properly addressed to the signatories of the parties as set forth above. Any party may change their address for the purpose of this paragraph by giving the other party written notice of the new address in the above manner.

**Anti-Discrimination** - Consultant shall not exclude from its employment in the performance of this Agreement any person on the grounds of race, creed, color, sex, age, marital status, sexual orientation or place of national origin. Consultant shall comply with all applicable local, state and federal laws relating to equal employment opportunity rights.

**No Assignment** - This Agreement is for personal services. Consultant shall not assign its duties or obligations hereunder without the prior written consent of COMB, which may be withheld by COMB for any reason in its sole discretion.

**No Waiver** - No failure by COMB in asserting any of its rights or remedies as to any default of Consultant shall operate as a waiver of the default, or any subsequent or other default by Consultant, or of any of COMB's rights or remedies. No such delay shall deprive COMB of its right to institute and maintain any actions or proceedings which may be necessary to protect, assert, or enforce any rights or remedies arising out of this Agreement or the performance thereof.

**Partial Invalidity** - If any term, covenant, condition or provision of this Agreement is found by a court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provisions herein shall remain in full force and effect and shall not be affected, impaired or invalidated thereby.

**Integration** - No alteration or variation of the terms of this Agreement shall be valid unless made in writing and signed by the parties. No oral understanding or agreement not incorporated herein shall be binding on any of the parties.

**California Law** - This Agreement shall be interpreted and construed pursuant to the laws of the State of California. Any dispute between the parties shall be filed and heard in a court of competent jurisdiction in the County of Santa Barbara.

**COMB Employees** - Consultant agrees that no employee of COMB shall be employed by Consultant during the period this Agreement is in effect.

**This Professional Services Agreement shall become a valid contract only when accepted by Consultant, and subsequently by COMB, and together with COMB's Scope of Work shall constitute the entire agreement between the parties, with the terms, conditions and definitions set forth in this eight-page document governing and controlling the enforcement of that contract.**

**PROFESSIONAL SERVICES AGREEMENT**  
**CACHUMA OPERATION & MAINTENANCE BOARD**

**EXHIBIT A**

Kenneth A. Knight Consulting, LLC Scope of Work

For

Lake Cachuma Oak Tree Restoration Program - Fiscal Year  
2021-22 Scope of Work

**Sole Source Contract Justification  
Fisheries Division Consultant Work**

**March 22, 2021**

**To:** Cachuma Operation and Maintenance Board

**From:** Janet Gingras (General Manager, COMB) and Timothy H. Robinson (Fisheries Division Manager, COMB)

**Contract:** HDR Fisheries Design Center, Scope of Work

**A. Factors of Consideration**

HDR Fisheries Design Center (HDR, initially Fish Pro) is one of the top fish passage engineering consulting firms in the country with extensive experience particularly on the west coast where they specialize in salmonid species and in our case the endangered Southern California steelhead (*Oncorhynchus, mykiss*). They have provided to the Fisheries Program exemplary fish passage design, data review, and planning assistance since prior to the issuance of the Cachuma Project Biological Opinion in September of 2000.

In 2008, HDR worked with fisheries staff to author the Quiota Creek Watershed Fish Passage Enhancement Plan which was the initial fish passage assessment and design work for all projects along Quiota Creek. Since then, they have amassed extensive local experience in analyzing the watershed hydrology and specific fish passage issues at all known fish passage impediments along the creek at Crossings 0A, 0B, 1, 2, 3, 4, 5, 6, 7, 8 and 9. HDR has successfully completed designs and overseen construction of the following projects at Crossings 0A, 1, 2, 3, 4, 5, 6, 7, 8, and 9. Their cumulative knowledge in design and regulatory compliance for the National Marine Fisheries Service (NMFS), California Department of Fish and Wildlife (CDFW), U. S. Fish and Wildlife Service (USFWS), Santa Barbara County Public Works (County) as well as concerns and requirements of individual landowners has been extremely valuable in facilitating projects both in implementation and cost savings. Learned project elements are applied to the next fish passage enhancement project resulting in a streamlined and efficient design and implementation process for each project.

HDR's lead fish passage engineer, Mike Garelo, is particularly well positioned since he is the current Bioengineering Section President for the American Fisheries Society (AFS) where he interacts with fish passage engineers from across the country and more importantly engineers from regulatory agencies specifically NMFS and CDFW. This provides insights and relationships to those who approve the designs of our projects which enhances and further legitimizes our project designs which reduces the amount of questions and review period by those approving regulatory agencies. Mr. Garelo

regulatory gives talks at professional fisheries conferences and is well known and respected in the industry. Resumes from Mr. Garelo and his second in command, Shaun Bevan, are available upon request.

In addition, HDR successfully designed and assisted in the implementation of the Rancho San Julian Fish Ladder on El Jaro Creek, a tributary of Salsipuedes Creek, in 2009 and is actively involved with the required fix of the fish ladder at the Jalama Road Bridge on Salsipuedes Creek. HDR conducts all performance evaluations for each of their completed fish passage projects which totals 11 projects.

## **B. Price Analysis**

HDR has provided years of valuable consulting services in engineering design, planning and navigating regulatory and County requirements. Their cumulative knowledge provides efficient consulting at a price point that would be difficult to match given their local experience and quantity of conducted fish passage analyses and engineering design work. Their long-term, in-depth and extensive professional experience within the Lower Santa Ynez River drainage continues to be top notch at a cost reflective of the longevity of the relationship.

**Sole Source Contract Justification  
Fisheries Division Consultant Work**

**March 22, 2021**

**To:** Cachuma Operation and Maintenance Board

**From:** Janet Gingras (General Manager, COMB) and Timothy H. Robinson (Fisheries Division Manager, COMB)

**Contract:** Kenneth A. Knight Consulting, Scope of Work

**A. Factors of Consideration**

Kenneth Knight is a registered consulting arborist (License Number 507) who has been working on the Lake Cachuma Oak Tree Restoration Program as the project consultant for COMB since 2014. He has advised the COMB Fisheries Division staff on all facets of the Program from maintenance of trees planted prior to 2014 through newly planted trees and maintenance of all through 2021. His expertise has been instrumental in the success and professionalism of the program and mitigation effort.

Mr. Knight's continued services are sought for Fiscal Year 2021-2022 as a continuation of the ongoing program so that we can maintain the same level of professional care, oversight and future planting.

**B. Price Analysis**

Mr. Knight has served COMB well both in product and price point. He provides a unique case due to his extensive experience with this oak tree restoration project over the past 8 years, professional knowledge, and credentials as a licensed consulting arborist.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	June 28, 2021
Submitted by:	Edward Lyons/ Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT:** Cachuma Project Warren Act Trust Fund / Renewal Fund - Water Year 2021-22 Annual and Long-Term Plan / Santa Barbara County Betterment Fund

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**RECOMMENDATION:**

The Board of Directors receive and file the final Cachuma Project 2021-22 Annual and Long-Term Plan and approve:

- a. Recommended program expenditures of Cachuma Project Warren Act Trust Fund and Renewal Fund monies in the amount of \$263,261 for Fiscal Year 2021-22 as agreed upon by the Funds Committee.
- b. The proposed program expenditures of the Santa Barbara County Betterment Fund monies in the amount of \$90,000 for Fiscal Year 2021-22 as agreed upon by the County and the Cachuma Member Units' representative.

**SUMMARY:**

**Cachuma Project Warren Act Trust Fund (WATF) / Renewal Fund (RF) ("Funds Committee") Meeting**

COMB Resolution No. 249, approved unanimously by the COMB Board in 1997, establishes that the processes for implementation and administration of the Cachuma Project Warren Act Trust Fund and the Master Contract Renewal Fund shall be merged and carried out under the process established by the Cachuma Project Trust Fund, with, a single Committee (the "Funds Committee") directing the preparation and implementation of Long-Term and Annual Work Plans.

The Funds Committee is authorized to prepare and implement a Long Term Plan and Annual Work Plan for expenditure of Trust Fund monies for purposes consistent with the Warren Act Memorandum of Understanding between the Central Coast Water Authority, the Bureau of Reclamation and COMB.

The Committee met on June 17, 2021 to review the Annual and Long Term Plan and proposed expenditures for Water Year 2021-22. The Cachuma Project Warren Act Trust Fund revenues collected for calendar year 2020 total \$43,086 based on 1002 AF of State Water delivered to the lake during that year. In calculating the formula for the two funds, the Renewal Funds to be collected for fiscal year 2021-22 equal \$220,175 for a total of \$263,261 funds available. In accordance with the plan document, the funds will provide revenue for environmental restoration activities (\$25,000), regulatory requirements (\$188,261), and Cachuma Project betterment (\$50,000).

**Santa Barbara County Water Agency Cachuma Betterment Fund meeting**

Article 8 (b) of the Cachuma Project Member Unit contracts with Santa Barbara County Water Agency requires the County Water Agency to provide \$100,000 annually for beneficial purposes consistent with the Water Agency Act and within the Santa Ynez River watershed or the Cachuma Project service area. All decisions relating to the expenditure of such funds must be agreed to by both the County Water Agency and the Cachuma Member Units' Representative, acting by unanimous vote. Consistent with past years, \$90,000 will be used for the stream gauge program. The funds were allocated for the following activities for Fiscal Year 2021-22:

USGS Stream Gauging Program (COMB)	\$ 90,000
USGS Stream Gauging Program (County of SB)	<u>\$ 10,000</u>
Total	<u>\$100,000</u>

**FISCAL IMPACTS:**

The FY 2021-22 COMB Operating Budget reflects the Warren Act Trust Fund / Renewal Fund and Santa Barbara County Betterment Fund revenue offsets for approved activities consistent with the Annual Plan.

**COMMITTEE STATUS**

The Fisheries Committee reviewed the draft 2021-22 Cachuma Project Annual and Long-Term Plan on June 9, 2021 and forwards the following to the Board with a recommendation to approve:

- a. The recommended program expenditures of Cachuma Project Warren Act Trust Fund and Renewal Fund monies in the amount of \$263,261 for Fiscal Year 2021-22 as agreed upon by the Funds Committee.
- b. The proposed program expenditures of the Santa Barbara County Betterment Fund monies in the amount of \$90,000 for Fiscal Year 2021-22 as agreed upon by the County and the Cachuma Member Units' representative.

**LIST OF EXHIBITS:**

- 1) Cachuma Project Water Year 2021-22 Report with Annual and Long-Term Plan
- 2) Santa Barbara County Cachuma Project Betterment Fund Letter



# **CACHUMA PROJECT WARREN ACT TRUST FUND AND CACHUMA PROJECT MASTER CONTRACT RENEWAL FUND**

## **REPORT WITH ANNUAL AND LONG-TERM PLANS FOR WATER YEAR 2021-22**

### **Background**

The Cachuma Project Warren Act Trust Fund (Trust Fund) and Cachuma Project Master Contract Renewal Fund (Renewal Fund) are two separate funds that have been established through contracts with the U.S. Department of the Interior Bureau of Reclamation (Reclamation). These two funds have similar, but not identical purposes which are explained below.

### **Warren Act Trust Fund**

The Warren Act Trust Fund is a requirement of the Cachuma Project Warren Act Contract that the Central Coast Water Authority (CCWA) negotiated with Reclamation for delivery and transport of State Water Project (SWP) water through the Cachuma Project facilities. A 1995 memorandum of understanding (MOU) executed by Reclamation, the Cachuma Project Authority (now COMB<sup>1</sup>), and the Central Coast Water Authority (CCWA), in conjunction with the Warren Act Contract, established a charge of \$43 per acre foot (AF) for State Water Project (SWP) water delivered to the federal facility. The payment is made to CCWA by those participating agencies and passed through to COMB for administration and implementation of controlled activities as outlined in the Warren Act MOU.

Payments are required upon delivery of SWP water to the Cachuma Reservoir. CCWA makes quarterly payments to COMB based on the prior quarter's deliveries. The South Coast CCWA participants (City of Santa Barbara, Goleta Water District, Montecito Water District, and Carpinteria Valley Water District, plus La Cumbre Mutual Water Company, Morehart Land Company, and Santa Barbara Research Center), have a total entitlement of 13,750 AF per year (AFY).

Through a formalized exchange agreement, the South Coast Cachuma Project Member Agencies have an obligation to exchange their SWP water for Santa Ynez River Conservation District, ID No. 1's (ID No. 1) Cachuma Project water on an annual basis. ID No. 1's current Cachuma entitlement is 2,651 AFY. ID No. 1 currently delivers approximately 80 AFY to Cachuma Lake County Park, which reduces the amount available for exchange to approximately 2,571 AFY. This makes the maximum annual amount under normal Cachuma yield conditions to be assessed for the Cachuma Project Trust Fund approximately 11,179 AF.

SWP water was first delivered into Lake Cachuma in June 1997. From calendar year (CY) 1997 through CY 2019, a total of 105,921 AF has been delivered. Because the 1990s experienced an extended wet period, SWP water deliveries were modest. Calendar years 2000 through 2004, 2007 through 2010, and 2013 through 2018 saw an increase in SWP water deliveries due to drought conditions. SWP deliveries to the lake, in general, fluctuate according to weather conditions.

<sup>1</sup> CPA transferred all obligations, rights, and responsibilities to COMB in October 1996

CCWA and the Cachuma Project Authority (CPA<sup>2</sup>) created the Warren Act Trust Fund as agreed to within the 1995 Warren Act MOU. The 1995 MOU established a two person Trust Fund Committee with one representative from Reclamation and one representative from the CPA (now COMB).

Article 3.b. of the MOU provides that the Bureau agrees to contribute its technical expertise and water management experience to assist in administering the Trust Fund by serving as a member of the Trust Fund Committee. In addition, Article 3.c. of the MOU provides that CPA (now COMB) serves on the Trust Fund Committee, manages and administers the Trust Fund, and provides administrative services to the Trust Fund Committee which is further confirmed by COMB Board Resolution No. 249 adopted in 1997.

Article 4 of the MOU provides for the creation and composition of a Trust Fund Committee, which is comprised of one representative each from the Bureau of Reclamation and CPA (now COMB). Article 4.d. provides for the creation of an Advisory Committee comprised of one representative each from the Santa Barbara County Water Agency (Agency), U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, and three public members designated by the Trust Fund Committee. The Advisory Committee shall be authorized to attend and participate in discussions held at meetings of the Trust Fund Committee, but shall have no vote.

The Trust Fund Committee is authorized to prepare and implement a Long-Term Plan and Annual Work Plan for expenditure of Trust Fund monies for purposes consistent with the MOU. CCWA can attend the Trust Fund Committee meetings but has no vote.

The Trust Fund Committee shall only take action by unanimous vote and meetings will be announced with reasonable notice. The Trust Fund Committee determines the use of the funds which shall only be expended consistent with the Long-Term (5-Year) Plan and applicable Annual Plan, and approved by the Committee. Expenditures of the Trust Fund revenues as stated in the MOU are limited to the following:

- a. Environmental Restoration - *The restoration of any riparian and other habitat of the Santa Ynez River and its watershed which has been adversely affected by the Cachuma Project facilities, including (without limitation) restoration of habitat of rare, threatened or endangered species, fish habitat or populations, and plant and animal habitat.*
- b. Wastewater Reclamation - *Projects, whether new or existing, which will promote reclamation of wastewater within the service areas of the Cachuma Member Units.*
- c. Water Conservation - *Projects which will promote water conservation within the service areas of the Cachuma Member Units.*
- d. Innovative Water Management Techniques - *Other sound and innovative water management techniques which will benefit the Cachuma Member Units in assuring their water customers a reliable water supply of high quality and reasonable price.*
- e. Cachuma Project Betterment - *Capital outlays (other than routine repair and maintenance) which contribute to improvement of the Cachuma Project facilities, including project betterment for the purposes of safety or public recreation in the Santa Ynez River or on Lake Cachuma or adjacent federally-owned lands.*

<sup>2</sup> Creation and Management of the Trust Fund and other obligations of CPA were assumed by the Cachuma Operation and Maintenance Board (COMB) when CPA merged into COMB in October 1996.

## Renewal 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 include 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 during the water year which runs from October 1<sup>st</sup> to September 30<sup>th</sup>. The Renewal Fund itself is capped at \$257,100, which is related to the annual operational yield of 25,714 AF as outlined in the Master Contract.

Payments into the Renewal Fund are made prior to the beginning of each water year and are reduced by the prior full CY payments to the Trust Fund. For example in WY2016, the prior calendar year is 2014, because that is the nearest prior full calendar year to WY2016. Payments to the Renewal Fund are reduced *pro rata* based on the formula: 1 minus the ratio of the prior calendar year Trust Fund payment to \$300,000 ( $RF = [1 - \text{prior CY TF payment}/\$300,000] \times \$257,100$ ). For example, if the prior CY Trust Fund payment was \$225,000, the ratio is 0.75; 1 minus 0.75 is 0.25; 0.25 times \$257,100 is \$64,275, which would be the Renewal Fund payment requirement for that water year. The combined total available funds would be the sum of those two amounts, or \$289,275. When the Trust Fund amount in the CY prior to a Cachuma Project water year is greater than \$300,000, the ratio would be greater than 1; 1 minus that amount is less than zero, so no Renewal Fund payment is required. The calculation for a zero Renewal Fund payment has occurred for WY2006, WY2016, WY2018, WY2019, and WY2020 because the amount of SWP water was significant in those years.

The Cachuma Project 1995 Renewal Master Contract states that the contracting officer (Reclamation) and the Cachuma Member Units shall jointly develop a Long-Term (5-year) Plan and an Annual Work Plan. Through COMB Board Resolution No. 249, the Cachuma Project Member Units agreed unanimously to merge the processes for implementation and administration of the Cachuma Project Warren Act Trust Fund and the Cachuma Project Master Contract Renewal Fund under a single committee (referred to as the “Funds Committee”) directing the preparation and implementation of Long-Term and Annual Work Plans. Resolution No. 249, passed unanimously by the COMB Board in 1997, also authorized the COMB Board to appoint a representative to the Funds Committee who would represent the interests of and provide recommendations from the Cachuma Member Units, as well as work with Reclamation’s committee member to develop joint Long-Term and Annual Work Plans for the use of both Funds.

The Cachuma Project Renewal Master Contract specified that five years after adoption of the first Annual Plan, the Contractor (Santa Barbara County) shall be substituted for the Contracting Officer (Reclamation) for the Renewal Fund discussions; this change in representation began in WY2003 and Santa Barbara County has been the representative since that time. The Funds Committee composition dictates that the voting members of the Funds Committee are Reclamation, COMB and Santa Barbara County. COMB manages and administers both the Trust Fund and the Renewal Fund administration and accounts as stipulated in the Cachuma Project Renewal Master Contract and COMB Board Resolution No. 249.

Article 27(a) of the Cachuma Project Renewal Master Contract (MCA 27) describes the purposes of Renewal Fund, which include the following:

- a. *Mitigation activities for the selected alternative in the Master Contract Renewal EIS/EIR. No mitigation activities were identified, so this section does not apply.*
- b. *Activities which may be required of the Contracting Officer by State Water Resources Control Board (SWRCB) orders affecting the Project Water Rights.*
- c. *Studies described in sub-article 7 (b) which are specific to conducting and preparing studies and reports that are required to be submitted by Reclamation to the SWRCB pursuant to Board WR94-5 paragraph 3, including fisheries studies and other related studies under the continuing jurisdiction of the SWRCB.*
- d. *Studies relating to modifications in the Cachuma Project operations pursuant to sub-article 9 (g), including to protect the environment and groundwater quality downstream of Bradbury Dam, conserve Project Water, and promote efficient water management.*
- e. *Restoration of riparian or other habitat of the Santa Ynez River and its watershed which has been adversely affected by the Project.*
- f. *Activities of Reclamation pursuant to sub-article 27 (i) that are required by law to be reimbursed by the Contractor, those shall be included in the Long-Term Plan and Annual Work Plan and reimbursed by the Renewal Fund.*

### **Objectives of the Funds**

Integration of the objectives of the two funds suggests the following categories:

1. Environmental restoration (Biological Opinion and SWRCB Orders).
2. Implementation of regulatory requirements.
3. Water management and conservation by Cachuma Project members.
4. Cachuma Project betterment.

### **Annual and Five-Year Plans**

The contractual documents establishing the Trust Fund and Renewal Fund require preparation of an Annual Work Plan and a Five-Year Plan. Per COMB Resolution No. 249, passed unanimously by the COMB Board in 1997, the Cachuma Operation and Maintenance Board (representing the Cachuma Member Units) shall appoint a representative to the Funds Committee and said representative shall work with the Reclamation to develop joint Long Term and Annual Work Plans for use of the funds.

### **Revenue Estimates**

Trust Fund revenues from Member Unit State Water Project (SWP) deliveries in CY2020 were \$43,086 based on 1,002 AF delivered, and Renewal Fund revenues derived from operational yield of the Cachuma Project deliveries in WY2022 will be \$220,175 for total available revenues of \$263,261 (Table 1). These available revenues are anticipated to be fully utilized during the coming Water Year. A historical record since 1995 and projected revenues through WY2026 for both funds are shown in Table 2. Fund amounts through WY2022 are based on the actual prior calendar year SWP water deliveries; subsequent years' revenues are based on full usage of allotted SWP water deliveries (6,977 AF), thus reaching the Trust fund projected average of \$300,000 (6,977 AF)

without any projected revenues from the Renewal Fund. If at the beginning of any water year the combined balance of the Cachuma Project Trust Fund and Renewal Fund is \$600,000 or more, then contributions to the Renewal Fund are not required for such water year. It is important to remember that SWP water orders can be changed on a monthly basis, so the actual amount delivered in any year may be quite different from projected orders. CY1998 is a good example of how orders can change where 3,888 AF of SWP water was ordered but no actual deliveries were made into the lake because Lake Cachuma was spilling through July. Deliveries were not possible after that time because fish releases were being made through the Bradbury Dam Outlet Works due to release constraints under the BiOp. Typically, advance orders will be greater than actual deliveries. The SWP water orders are first subject to an exchange with ID No. 1 as described above. The SWP water delivery amounts shown in Table 1 are in consideration of the ID No. 1 exchange amount. The Cachuma Project Member Units maximum available supply from the Cachuma Project each year is currently 25,714 AFY.

**Table 1:** Trust Fund and Renewal Fund calculation of contributions and assessments for WY2022.

<b>TRUST FUND (T) (Warren Act) - State Water</b>			
<b>GIVEN:</b>	Q = Acre-Feet of State Water Project Deliveries to Cachuma Reservoir in CY2019		
	Q =	1,002 Acre-Feet used in CY2020	
	T =	Warren Act Trust Fund Contribution = Q x \$43 per Acre-Foot	
<b>THEN:</b>	T =	1,002 x \$43	
	<b>T =</b>	<b>\$43,086</b>	
<b>WARREN ACT TRUST FUND REVENUE FOR CALENDAR YEAR 2020</b>			
	<b>CCWA PARTICIPANTS</b>	<b>USED</b>	<b>AMOUNT DUE</b>
		(af)	(\$)
	GOLETA WATER DISTRICT	0	\$0
	CITY OF SANTA BARBARA	0	\$0
	CARPINTERIA VALLEY WD	0	\$0
	MONTECITO WATER DISTRICT	0	\$0
	LA CUMBRE MUTUAL WATER COMPANY	928	\$39,904
	MOREHART LAND COMPANY	49	\$2,107
	SB RESEARCH CENTER (RAYTHEON)	25	\$1,075
	<b>TOTAL</b>	<b>1,002</b>	<b>\$43,086</b>
<b>RENEWAL FUND (R) - Cachuma Water</b>			
<b>GIVEN:</b>	W = Annual Operations Yield of 25,714 af x \$10 =	\$257,140	
	Renewal Fund cap:	\$257,100	
	R = Renewal Fund Contribution = [1 - (T/\$300,000)] x W		
<b>THEN:</b>	R = [1 - (\$43,086/\$300,000)] x \$257,100		
	<b>R =</b>	<b>\$220,175</b>	
<b>RENEWAL FUND ALLOCATION FOR WATER YEAR 2021 - 2022 (PAYMENT DUE OCTOBER 1, 2021)</b>			
	<b>MEMBER UNIT</b>	<b>COST SHARE*</b>	<b>AMOUNT DUE</b>
		(%)	(\$)
	GOLETA WATER DISTRICT	36.25	\$79,814
	CITY OF SANTA BARBARA	32.19	\$70,874
	CARPINTERIA VALLEY WD	10.94	\$24,087
	MONTECITO WATER DISTRICT	10.31	\$22,700
	SANTA YNEZ RWCD ID#1	10.31	\$22,700
	<b>TOTAL</b>	<b>100.00</b>	<b>\$220,175</b>
	* based on Cachuma Entitlement		
<b>TOTAL FUNDS AVAILABLE FOR WATER YEAR 2021-2022:</b>			<b>\$263,261</b>

**Table 2:** Trust Fund and Renewal Fund revenues based on SWP deliveries and constant Cachuma Project deliveries; the funds were initiated in 1997.

Trust Fund			Renewal Fund			Total Available		Expected Expenditures
Calendar Year	SWP Deliveries (AF)	Funds	Water Year	Cachuma Deliveries (AF)	Funds	Water Year	Funds	Funds
1995	-	\$0	1997	25,714	\$257,100	1997	\$257,100	\$257,100
1996	-	\$0	1998	25,714	\$257,100	1998	\$257,100	\$257,100
1997	1,502	\$64,586	1999	25,714	\$201,750	1999	\$266,336	\$266,336
1998	0	\$0	2000	25,714	\$257,100	2000	\$257,100	\$257,100
1999	505	\$21,715	2001	25,714	\$238,490	2001	\$260,205	\$260,205
2000	2,334	\$100,362	2002	25,714	\$171,090	2002	\$271,452	\$271,452
2001	809	\$34,787	2003	25,714	\$227,288	2003	\$262,075	\$262,075
2002	6,708	\$288,444	2004	25,714	\$9,903	2004	\$298,347	\$298,347
2003	4,568	\$196,424	2005	25,714	\$88,765	2005	\$285,189	\$285,189
2004	8,836	\$379,948	2006	25,714	\$0	2006	\$379,948	\$379,948
2005	506	\$21,758	2007	25,714	\$238,453	2007	\$260,211	\$260,211
2006	759	\$32,637	2008	25,714	\$229,130	2008	\$261,767	\$261,767
2007	6,316	\$271,588	2009	25,714	\$24,349	2009	\$295,937	\$295,937
2008	3,694	\$158,842	2010	25,714	\$120,972	2010	\$279,814	\$279,814
2009	2,537	\$109,091	2011	25,714	\$163,609	2011	\$272,700	\$272,700
2010	1,788	\$76,884	2012	25,714	\$191,210	2012	\$268,094	\$268,094
2011	1,013	\$43,559	2013	25,714	\$219,770	2013	\$263,329	\$263,329
2012	385	\$16,555	2014	25,714	\$242,912	2014	\$259,467	\$259,467
2013	2,638	\$113,434	2015	25,714	\$159,887	2015	\$273,321	\$273,321
2014	13,296	\$571,728	2016	25,714	\$0	2016	\$571,728	\$571,728
2015	5,542	\$238,306	2017	25,714	\$52,872	2017	\$291,178	\$291,178
2016	14,427	\$620,361	2018	25,714	\$0	2018	\$620,361	\$620,361
2017	12,547	\$539,521	2019	25,714	\$0	2019	\$539,521	\$539,521
2018	13,751	\$591,293	2020	25,714	\$0	2020	\$591,293	\$591,293
2019	1,460	\$62,780	2021	25,714	\$203,298	2021	\$266,078	\$266,078
<b>2020</b>	<b>1,002</b>	<b>\$43,086</b>	<b>2022</b>	<b>25,714</b>	<b>\$220,175</b>	<b>2022</b>	<b>\$263,261</b>	<b>\$263,261</b>
2021	6,977	\$300,000	2023	25,714	\$0	2023	\$300,000	?
2022	6,977	\$300,000	2024	25,714	\$0	2024	\$300,000	?
2023	6,977	\$300,000	2025	25,714	\$0	2025	\$300,000	?
2024	6,977	\$300,000	2026	25,714	\$0	2026	\$300,000	?
2025	6,977	\$300,000	2027	25,714	\$0	2027	\$300,000	?
2026	6,977	\$300,000	2028	25,714	\$0	2028	\$300,000	?
<b>106,923</b>			<b>CY1997-2020 total SWP Delivered</b>					
<b>Notes:</b>								
- Calendar Years 1997 through 2020 show actual State Water deliveries to Cachuma Reservoir; following years are requested deliveries.								
- State Water deliveries are based on calendar year.								
- Cachuma Project deliveries are based on water year (October 1 through September 30).								
- Trust Fund charge is \$43 per AF;								
- Renewal fund charge is \$10 per AF (in 1995 dollars).								
- Renewal Fund is reduced by prior full calendar year Trust Fund revenue, for example, 2002 Renewal Fund amount is reduced by 2000 Trust Fund revenue.								
- Total Available is current year Renewal Fund plus full prior year Cachuma Project Trust Fund (for example, 2002 Trust Fund plus 2004 Renewal Fund).								
- Total Available will be increased by any accrued interest in the fund accounts.								

Table 3 provides a summary of the activities for which the Trust Fund and Renewal Fund revenues have been used since 1997. (See Table 2 for the calculation of annual revenues from each of the two funds). Activities are similar year to year and have focused on environmental restoration projects which include the Oak Tree restoration program of work and restoration of riparian habitat of the Santa Ynez River and its watershed including restoration of habitat for endangered species, meeting regulatory requirements outlined in the Cachuma Project Biological Opinion (2000) such as monitoring, trapping, snorkel surveys, redd surveys, reporting and public outreach, and Cachuma Project Betterment projects such as conservation easements and watershed protection efforts, and Hilton Creek channel enhancements efforts.

**Table 3:** Use of the Trust Fund and Renewal Fund revenues from 1998 to 2022 by Fiscal Year.

Fiscal Year	Activities:			Total
	Environmental Restoration	Regulatory Requirements	Cachuma Project Betterment	
1998	\$257,100	\$0	\$0	<b>\$257,100</b>
1999	\$257,100	\$0	\$0	<b>\$257,100</b>
2000	\$266,336	\$0	\$0	<b>\$266,336</b>
2001	\$62,000	\$195,100	\$0	<b>\$257,100</b>
2002	\$123,200	\$99,005	\$38,000	<b>\$260,205</b>
2003	\$48,000	\$215,452	\$8,000	<b>\$271,452</b>
2004	\$75,000	\$187,075	\$0	<b>\$262,075</b>
2005	\$105,000	\$193,347	\$0	<b>\$298,347</b>
2006	\$0	\$263,189	\$22,000	<b>\$285,189</b>
2007	\$50,000	\$317,948	\$12,000	<b>\$379,948</b>
2008	\$50,000	\$198,211	\$12,000	<b>\$260,211</b>
2009	\$50,000	\$198,267	\$13,500	<b>\$261,767</b>
2010	\$42,000	\$241,437	\$12,500	<b>\$295,937</b>
2011	\$45,000	\$227,314	\$7,500	<b>\$279,814</b>
2012	\$45,000	\$222,700	\$5,000	<b>\$272,700</b>
2013	\$171,000	\$97,094	\$0	<b>\$268,094</b>
2014	\$172,000	\$91,329	\$0	<b>\$263,329</b>
2015	\$190,000	\$69,467	\$0	<b>\$259,467</b>
2016	\$425,000	\$146,728	\$0	<b>\$571,728</b>
2017	\$200,000	\$91,178	\$0	<b>\$291,178</b>
2018	\$225,000	\$365,361	\$30,000	<b>\$620,361</b>
2019	\$225,000	\$284,521	\$30,000	<b>\$539,521</b>
2020	\$30,000	\$511,293	\$50,000	<b>\$591,293</b>
2021	\$25,000	\$191,078	\$50,000	<b>\$266,078</b>
2022	\$25,000	\$188,261	\$50,000	<b>\$263,261</b>

## Milestones

Below are important milestones associated with or having an effect on the LSYR Fisheries Program since the issuance of the 2000 Cachuma Project BiOp. Many of these activities have been partially funded by the Trust and Renewal Funds as well as the County's Cachuma Betterment Fund.

### **WY2000 (October 1999 – September 2000)**

December 1999 - Completion of Hilton Creek Water Supply System\* and Fish Management Plan Inaugural Ceremony  
 April 2000 - Lake Cachuma Spilled  
 September 2000 - Steelhead Biological Opinion for Cachuma Project Operations Issued by NMFS

### **WY2001 (October 2000 – September 2001)**

October 2000 - Final LSYR Fish Management Plan  
 February 2001 - Lake Cachuma Spilled  
 November 2000 - SWRCB Hearings on Cachuma Project Water Rights Permits (Phase 1)

### **WY2002 (October 2001 – September 2002)**

January 2002 - Completion of Salsipuedes Creek/Highway 1 Fish Passage Enhancement\*\*  
 June 2002 - Administrative Draft EIR/EIS for Fish Management Plan and Biological Opinion

### **WY2003 (October 2002 – September 2003)**

December 2002 - Cachuma Project Settlement Agreement between CCRB, ID#1, SYRWCD & City of Lompoc  
 April 2003 - Installation of Variable Depth Intake for Hilton Creek Watering System\*  
 May 2003 - Pre-Hearing Conference for SWRCB Hearings on Cachuma Project Water Rights Permits  
 June 2003 - Draft EIR/EIS for Fish Management Plan and Biological Opinion  
 August 2003 - Draft SWRCB EIR on Cachuma Operations

### **WY2004 (October 2003 – September 2004)**

Oct-Nov 2003 - SWRCB Hearings on Cachuma Project Water Rights Permits (Phase 2)  
 January 2004 - Cachuma Park Boat Launch Ramp Raised to Accommodate 1.8 ft Surcharge  
 January 2004 - Completion of Salsipuedes Creek/Jalama Road Fish Passage Enhancement\*  
 February 2004 - Completion of El Jaro Creek Streambank Stabilization Projects\*\*  
 February 2004 - MOU Regarding Surcharge of Lake Cachuma and Protection of Cachuma Park Facilities  
 March 2004 - Completion of Final EIR/EIS for Fish Management Plan and Biological Opinion  
 March 2004 - Reclamation ROD for Final EIS for Fish Management Plan and Biological Opinion  
 April 2004 - Installation of Bradbury Dam Gate Extensions for Cachuma Reservoir Surcharge Project  
 May 2004 - Revised Cachuma Project Fish Passage Supplementation Program (BiOp Term & Condition)  
 June 2004 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
 August 2004 - Upper Basin Analysis - initiated

### **WY2005 (October 2004 – September 2005)**

November 2004 - COMB Certification of Final EIR for Fish Management Plan and Biological Opinion  
 November 2004 - Modeling Protocol for Target Flow Monitoring Approved and Implemented  
 December 2004 - Crawford-Hall Filed CEQA Lawsuit against COMB for Final FMP/BiOp EIR  
 December 2004 - Flow Capacity Modifications for Hilton Creek Watering System and Installation of Pump\*  
 January 2006 - Completion of Year 1 Oak Tree Restoration Program  
 January 2005 - Lake Cachuma Spilled  
 March 2005 - Amended MOU Regarding Surcharge of Lake Cachuma and Protection of Park Facilities  
 April 2005 - Installation of Pumping System for Hilton Creek Watering System\*



April 2005 - Surcharge Lake Cachuma by 2.5 feet (~7700 acre feet) for Steelhead Fishery Downstream  
July 2005 - Summer 2005 (First) Santa Ynez River Fish Management Plan Newsletter  
June 2005 - Completion of Year 1 Cachuma Oak Tree Restoration Program  
September 2005 - Senior Resources Scientist Hired for Fisheries Program

**WY2006 (October 2005 – September 2006)**

October 2005 - Approval Letter from NMFS for Revised Cachuma Project Fish Passage Supplementation Program  
November 2005 - Crawford-Hall Filed NEPA Lawsuit against United States for Final FMP/BiOp EIS  
November 2005 - Fall 2005 Santa Ynez River Fish Management Plan Newsletter  
December 2005 - Construction of Hilton Creek Cascade/Chute Fish Passage Enhancement (Reclamation Project) \*\*  
Oct-Dec 2005 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2006 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2006 - Completion of Year 2 Oak Tree Restoration Program – (375 oak trees planted)  
February 2006 - Conducted passage supplementation during two storms  
February 2006 - Distribution of Fish Projects Brochure  
Feb-April 2006 - Supplemental Passage Flow Releases (from 2005 surcharge)  
April 2006 - Lake Cachuma Spilled  
April 2006 - Interim Agreement with County to Surcharge Lake Cachuma up to 3.0 feet  
June 2006 - Preliminary Redesign of Quiota Creek Fish Passage Projects  
July 2006 - Summer 2006 Santa Ynez River Fish Management Plan Newsletter  
May 2006 - Preliminary Design of El Jaro San Julian Fish Passage  
Sept 2006 - Preliminary Design of El Jaro Cross Creek Fish Passage

**WY2007 (October 2006 – September 2007)**

October 2006 - Development of GIS for Santa Ynez River Fisheries Program  
January 2007 - Winter 2007 Santa Ynez River Fish Management Plan Newsletter  
Oct-Dec 2006 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2007 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2007 - Completion of Year 3 Cachuma Oak Tree Restoration Program (375 oak trees planted)  
February 2007 - Winter 2007 Santa Ynez River Fish Management Plan Newsletter  
March-April 2007 - Crawford-Hall Petition to Add Caltrans to CEQA Lawsuit Against COMB for Final FMP/BiOp EIR and Hearing on Petition (unsuccessful – petition denied)  
May 2007 - Completion of Quiota Creek Watershed Draft Report  
June 2007 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
July 2007 - SWRCB Revised Draft EIR on Cachuma Operation  
September 2007 - Preliminary Design of El Jaro Cross Creek Fish Passage  
September 2007 - Completion of Various AMC Reports to meet BiOp Terms & Conditions

**WY2008 (October 2007 – September 2008)**

December 2007 - Submitted to NMFS the 2006 Fish Passage Supplementation Report  
December 2007 - Final Design of El Jaro San Julian Fish Passage  
Oct-Dec 2007 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2008 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2008 - Completion of Year 4 Cachuma Oak Tree Restoration Program (375 oak trees planted)  
January 2008 - Lake Cachuma Spilled  
March 2008 - Draft Ramp-Down after Spill Protocol  
April 2008 - Agreement with County to Surcharge Lake Cachuma up to 3.0 feet  
June 2008 - Summer 2008 LSYR Fish Management Plan Newsletter  
July 2008 - Construction of El Jaro San Julian Fish Passage Project\*\*  
August 2008 - NMFS Draft Recovery Plan Outline for Southern Steelhead

August 2008 - Completion of the Santa Ynez River Genetics Analysis (NOAA Research Lab at UCSC)  
September 2008 - Draft Resource Management Plan EIS for Cachuma Recreation Area

**WY2009 (October 2008 – September 2009)**

March 2009 - Completion of El Jaro San Julian Fish Passage Project\*\*  
October 2008 - Construction of the Quiota Creek Fish Passage Bottomless Arched-Culvert at Crossing 6\*\*  
December 2008 - Completion of Draft 1993-2004 Santa Ynez River Fisheries Synthesis Report  
Oct-Dec 2008 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2009 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2009 - Completion of Year 5 Cachuma Oak Tree Restoration Program (375 oak trees planted)  
February 2009 - Completion of Management Report for Santa Ynez River Genetics Analysis  
March 2009 - Completion of El Jaro San Julian Fish Passage Project\*\*  
March 2009 - Completion of the Quiota Creek Fish Passage Bottomless Arched-Culvert at Crossing 6\*\*  
August 2009 - Construction of Cross Creek Ranch Fish Passage Enhancement Project on El Jaro Creek  
August 2009 - Negotiations of Conservation Easements on Salsipuedes and El Jaro Creeks  
September 2009 - Completion of Various AMC Reports to meet BiOp Terms & Conditions

**WY2010 (October 2009 – September 2010)**

November 2009 - Completion of Cross Creek Ranch Fish Passage Enhancement Project on El Jaro Creek\*\*  
Oct-Dec 2009 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2010 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2010 - Completion of Year 6 Cachuma Oak Tree Restoration Program (375 oak trees planted)  
February 2010 - Conducted passage supplementation during two storms  
April 2010 - Completion of the Surcharge Operations Protocol  
June 2010 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
May 2010 - Completion of the 1.5 cfs Target Flow Operations Guidelines at Alisal Bridge  
June 2010 - Submitted to NMFS the 2010 Fish Passage Supplementation Report

**WY2011 (October 2010 – September 2011)**

Oct-Dec 2010 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2011 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2011 - Completion of Year 7 of Cachuma Oak Tree Restoration Program (379 oak trees planted)  
January 2011 - Submitted to NMFS the BiOp Compliance Binder  
March 2011 - Winter 2011 LSYR Fish Management Plan Newsletter  
March 2011 - Lake Cachuma Spilled  
May 2011 - Submittal of the 2008 Annual Monitoring Report and Trend Analysis for 2005-2008  
June 2011 - Completion of the Hilton Creek Channel Enhancement Study  
June 2011 - Submitted Compliance Report on Target Flows at Hwy 154 Bridge  
August 2011 - Summer 2011 LSYR Fish Management Plan Newsletter  
August 2011 - Construction of a Fish Passage Project at Crossing 2 on Quiota Creek\*\*

**WY2012 (October 2011 – September 2012)**

Oct-Dec 2011 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2012 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2012 - Completion of Year 8 of Cachuma Oak Tree Restoration Program (377 oak trees planted)  
November 2011 - Completion of a Fish Passage Project at Crossing 2 on Quiota Creek\*\*  
March 2012 - Submittal of the 2009 Annual Monitoring Report  
May 2012 - Submitted Compliance Report on Target Flows at Hwy 154 Bridge  
June 2012 - Submitted Guidance Document on Target Flows at Alisal Bridge  
September 2012 - Construction of a Fish Passage Project at Crossing 7 on Quiota Creek\*\*

**WY2013 (October 2012 – September 2013)**

Oct-Dec 2012 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2013 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2011 - Completion of Year 9 of Cachuma Oak Tree Restoration Program  
November 2012 - Completion of a Fish Passage Project at Crossing 7 on Quiota Creek\*\*  
March 2013 - Preliminary Design of Quiota Creek Crossing 0 Project  
March 2013 - Preliminary Design of Quiota Creek Crossing 3 Project  
June 2013 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
Sept-Dec 2013- Construction of a Fish Passage Project at Crossing 1 on Quiota Creek\*\*  
June 2013 - Submittal of the 2011 Annual Monitoring Report (sent to NMFS 3/20/14)

**WY2014 (October 2013 – September 2014)**

Oct-Dec 2013 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2014 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2014 - Completion of Year 10 of Cachuma Oak Tree Restoration Program  
December 2013 - Completion of a Fish Passage Project at Crossing 1 on Quiota Creek\*\*  
March 2014 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 0 Project  
March 2014 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 3 Project  
June 2014 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)

**WY2015 (October 2014 – September 2015)**

Oct-Dec 2014 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2015 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2015 - Completion of Year 11 of Cachuma Oak Tree Restoration Program (909 oak trees planted)  
March 2015 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 4 Project  
June 2015 - Submittal of the 2012 Annual Monitoring Report for review  
June 2015 - WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
September 2015 - Construction of a Fish Passage Project at Crossing 3 on Quiota Creek\*\*

**WY2016 (October 2015 – September 2016)**

Oct-Dec 2015 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2016 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2016 - Completion of Year 12 of Cachuma Oak Tree Restoration Program (824 oak trees planted)  
January 2016 - Completion of a Fish Passage Project at Crossing 3 on Quiota Creek  
January 2016 – Submitted the WY2016 Migrant Trapping Plan to USBR and NMFS  
February 2016 - Submittal of the 2012 Annual Monitoring Report to NMFS  
March 2016 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 5 Project  
April 2016 - Submittal of the 2013 Annual Monitoring Report for review  
June 2016 - Submittal of CalTrans Grant for Quiota Creek Crossing 8 Project  
June 2016 - Submittal of the 2016 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
September 2016 - Construction of a Fish Passage Project at Crossing 0A on Quiota Creek\*\*  
September 2016 - Construction of a Fish Passage Project at Crossing 4 on Quiota Creek\*\*

**WY2017 (October 2016 – September 2017)**

Oct-Dec 2016 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2017 - Maintenance of the Cachuma Oak Tree Restoration Program  
January 2017 - Completion of Year 13 of Cachuma Oak Tree Restoration Program (301 oak trees planted)  
October 2016 – Submittal of the 2016 WR 89-18 Releases Monitoring Report (BiOp Term & Condition)  
December 2016 - Completion of a Fish Passage Project at Crossing 0A on Quiota Creek  
December 2016 - Completion of a Fish Passage Project at Crossing 4 on Quiota Creek  
March 2017 – Submitted the WY2017 Migrant Trapping Plan to USBR and NMFS  
May 2017 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 9 Project

June 2017 - Submittal of the 2017 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
 September 2017 - Submittal of the 2014 Annual Monitoring Report for review

**WY2018 (October 2017 – September 2018)**

Oct-Dec 2017 - Maintenance of the Cachuma Oak Tree Restoration Program  
 Jan-Sept 2018 - Maintenance of the Cachuma Oak Tree Restoration Program  
 January 2018 - Completion of Year 14 of Cachuma Oak Tree Restoration Program  
 January 2018 – Submitted the WY2018 Migrant Trapping Plan to USBR and NMFS  
 February 2018 – Hilton Creek gravel augmentation, completion of first of two years  
 March 2017 - Submittal of CDFW/FRGP Grant for Quiota Creek Crossing 8 Project  
 April 2018 - Submittal the WY2014 Annual Monitoring Summary and Report  
 May 2018 - Submittal of the WY2015 Annual Monitoring Summary and Report for review  
 June 2018 - Submittal of the WY2016 Annual Monitoring Summary and Report for review  
 June 2018 - Submittal of the 2018 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
 August 2018 – Submittal of the 2017 WR 89-18 Releases Monitoring Report (BiOp Term & Condition)  
 August 2018 - Construction of a Fish Passage Project at Crossing 5 on Quiota Creek\*\*  
 September 2018 - Construction of a Fish Passage Project at Crossing 9 on Quiota Creek\*\*

**WY2019 (October 2018 – September 2019)**

Oct-Dec 2018 - Maintenance of the Cachuma Oak Tree Restoration Program  
 Jan-Sept 2019 - Maintenance of the Cachuma Oak Tree Restoration Program  
 January 2019 - Completion of Year 15 of Cachuma Oak Tree Restoration Program (300 oak trees planted)  
 October 2018 – Submittal the WY2018 Annual Monitoring Summary and Report to USBR and NMFS  
 November 2018 – Hilton Creek gravel augmentation, completion of the second of two years  
 December 2018 – Awarded a CDFW/FRGP Grant for the Quiota Creek Crossing 8 Project  
 December 2018 – Completion of the Fish Passage Project at Crossing 5 on Quiota Creek\*\*  
 December 2018 – Completion of the Fish Passage Project at Crossing 9 on Quiota Creek\*\*  
 January 2019 – Submitted the WY2019 Migrant Trapping Plan to USBR and NMFS  
 February 2019 - Submittal of the 2018 WR 89-18 Releases Monitoring Report (BiOp Term & Condition)  
 February and March 2019 - Conducted passage supplementation during three storms  
 April 2019 - Submittal of the WY2016 Annual Monitoring Summary and Report to USBR and NMFS  
 May 2019 - Submittal of the WY2017 Annual Monitoring Summary and Report for review  
 June 2019 - Submittal of the WY2017 Annual Monitoring Summary and Report to USBR and NMFS  
 September 2019- Submittal of the WY2018 Annual Monitoring Summary and Report for review  
 September 2019- Submittal of the WY2018 Annual Monitoring Summary and Report to USBR and NMFS

**WY2020 (October 2019 – September 2020)**

Oct-Dec 2019 - Maintenance of the Cachuma Oak Tree Restoration Program  
 Jan-Sept 2020 - Maintenance of the Cachuma Oak Tree Restoration Program  
 January 2020 - Completion of Year 16 of Cachuma Oak Tree Restoration Program (311 oak trees planted)  
 December 2019 - Submittal the WY2019 Annual Monitoring Summary and Report for review  
 December 2019 - Completion of the Fish Passage Project at Crossing 8 on Quiota Creek\*\*  
 January 2020 - Submittal of the WY2019 Annual Monitoring Summary and Report to USBR and NMFS  
 January 2020 – Submitted of the WY2020 Migrant Trapping Plan to USBR and NMFS  
 January 2020 – Co-authored and published a paper in the California Fish and Wildlife Journal 106(1) entitled  
 “Occurrences of Steelhead Trout (*Oncorhynchus mykiss*) in southern California, 1994-2018”.  
 February 2020 - Submittal of NFWF Grant for the South Side Erosion Control Project at QC Crossing 8  
 March 2020 - Award of NFWF Grant for the South Side Erosion Control Project at QC Crossing 8  
 April 2020 - Conducted passage supplementation during one storm with a supplemental pulse flow release  
 April 2020 - Submittal of the WY2019 Fish Passage Supplementation Report to USBR and NMFS  
 June and July 2020 – Collaborated with CDFW to successfully conduct fish rescues in the Narrows and  
 upper Refugio Reaches

August 2020 - Submittal of the 2020 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
September 2020 - Completion of the South Side Erosion Control Project at QC Crossing 8  
September 2020- Submittal of the WY2020 Fish Passage Supplementation Report to USBR and NMFS

**WY2021 (October 2020 – September 2021) (dates after June are projected)**

Oct-Dec 2020 - Maintenance of the Cachuma Oak Tree Restoration Program  
Jan-Sept 2021 - Maintenance of the Cachuma Oak Tree Restoration Program  
December 2020 – Submitted of the WY2021 Migrant Trapping Plan to USBR and NMFS  
January 2021 - Completion of Year 17 of Cachuma Oak Tree Restoration Program (325 oak trees planted)  
January 2021 - Submittal of the WY2020 Annual Monitoring Summary and Report for review  
February 2021 - Submittal of the WY2020 Annual Monitoring Summary and Report to USBR and NMFS  
May 2021 – Collaborated with CDFW to successfully conduct fish rescues in the upper Refugio Reach  
July 2021 - Submittal of the 2021 WR 89-18 Releases Monitoring Plan (BiOp Term & Condition)  
December 2021 - Submittal of the WY2021 Annual Monitoring Summary and Report for review

\* Funded from Federal Safety of Dams Program for Bradbury Dam Seismic Retrofit.

\*\* Full or partial grants were/are in place for these projects.

## **FIVE YEAR PLAN WY2022 TO WY2026**

The Funds Committee, with suggestions from the Advisory Committee, develops a long-term or Five-Year Plan for use of the revenues from both the Trust Fund and Renewal Fund. The Five-Year Plan is a dynamic document that is updated annually to reflect revised projected work as projects and monitoring efforts are added that directly benefit the Cachuma Project, the LSYR Fisheries Program, and other obligations of the Cachuma Member Units on behalf of Reclamation. These projected activities are called for in the Cachuma Project Biological Opinion (BiOp) and further described in the LSYR Fish Management Plan (FMP). Projected annual revenues are calculated based on an inverse relationship between the two funds stemming from fees charged for State water deliveries into Lake Cachuma, and have historically ranged from a minimum of \$257,100 to a maximum of \$620,361. The Five-Year Plan is a long-term, forward thinking, planning tool which coordinates the use of Trust and Renewal fund revenues according to their intended uses as outlined in this plan.

Table 4 summarizes activities and expenditures based on actual revenues available for WY2022 and projected revenues and expenses for WY2022-26. Expenditures for environmental restoration efforts include implementation of the Oak Tree Restoration Program, restoration of riparian and other habitat of the Santa Ynez River and its watershed, including (without limitation), restoration of rare, threatened or endangered species, fish habitat or populations, and plant and animal habitat.

Expenditures related to fulfill regulatory requirements as set forth in the Biological Opinion and SWRCB Orders include implementation of ongoing studies along the Santa Ynez River, monitoring and recording changing conditions, genetic analysis, long-term monitoring program, snorkel and redd surveys, trapping activities, and reporting compliance.

A large concern evolving from the recent wildfires in and around the lake is protection of the Cachuma Project watershed (erosion control and lake water quality and sedimentation) across the entire Santa Ynez River watershed which is of particular concern for the *O. mykiss* fishery below Lake Cachuma and water supply in general. These expenditures would be for Cachuma Project betterment.

Year 1 activities are developed in more detail in the WY2022 Annual Plan (Table 4) below because these expenditures are specifically included in the COMB budget for Fiscal Year 2021-22 (July 1, 2021 through June 30, 2022). In Years 1 and 2 (WY2022 and WY2023), the Oak Tree Restoration program will continue maintenance of the trees planted during the previous 16 years, and may plant additional oak trees in the late fall of each year. The Biological Opinion and SWRCB Orders compliance activities will continue with the longstanding monitoring, analysis, reporting and outreach efforts. Cachuma Project betterment (watershed protection in the case of WY2022) across the Santa Ynez River basin will also be addressed. During the remaining years (WY2024-WY2026), a similar level of effort for the estimated use of the funds is outlined in the table.

**Table 4: The Five-Year Plan (WY 2022-2026)\*.**

<b>Year 1: WY2022 (October 2021 - September 2022)</b>		
Funds Available:		<b>\$263,261</b>
Expenditures:		
<b>Environmental Restoration</b>		<b>\$25,000</b>
Oak Tree Restoration Program	\$25,000	
<b>Regulatory Requirements</b>		<b>\$188,261</b>
Monitoring, Analyses and Reporting	\$173,261	
Genetic Analyses	\$15,000	
<b>Cachuma Project Betterment</b>		<b>\$50,000</b>
		<b>\$263,261</b>
<b>Year 2: WY2023 (October 2022 - September 2023)</b>		
Estimated Funds Available:		<b>\$300,000</b>
Possible Expenditures:		
<b>Environmental Restoration</b>		<b>\$25,000</b>
Oak Tree Restoration Program	\$25,000	
<b>Regulatory Requirements</b>		<b>\$225,000</b>
Monitoring, Analyses and Reporting	\$210,000	
Genetic Analyses	\$15,000	
<b>Cachuma Project Betterment</b>		<b>\$50,000</b>
		<b>\$300,000</b>
<b>Year 3: WY2024 (October 2023 - September 2024)</b>		
Estimated Funds Available:		<b>\$300,000</b>
Possible Expenditures:		
<b>Environmental Restoration</b>		<b>\$25,000</b>
Oak Tree Restoration Program	\$25,000	
<b>Regulatory Requirements</b>		<b>\$225,000</b>
Monitoring, Analyses and Reporting	\$210,000	
Genetic Analyses	\$15,000	
<b>Cachuma Project Betterment</b>		<b>\$50,000</b>
		<b>\$300,000</b>
<b>Year 4: WY2025 (October 2024 - September 2025)</b>		
Estimated Funds Available:		<b>\$300,000</b>
Possible Expenditures:		
<b>Environmental Restoration</b>		<b>\$25,000</b>
Oak Tree Restoration Program	\$25,000	
<b>Regulatory Requirements</b>		<b>\$225,000</b>
Monitoring, Analyses and Reporting	\$210,000	
Genetic Analyses	\$15,000	
<b>Cachuma Project Betterment</b>		<b>\$50,000</b>
		<b>\$300,000</b>
<b>Year 5: WY2026 (October 2025 - September 2026)</b>		
Estimated Funds Available:		<b>\$300,000</b>
Possible Expenditures:		
<b>Environmental Restoration</b>		<b>\$25,000</b>
Oak Tree Restoration Program	\$25,000	
<b>Regulatory Requirements</b>		<b>\$225,000</b>
Monitoring, Analyses and Reporting	\$210,000	
Genetic Analyses	\$15,000	
<b>Cachuma Project Betterment</b>		<b>\$50,000</b>
		<b>\$300,000</b>
* Estimated available carryover funds from the previous water year - \$0.		
** For project operating expenses, construction match, and design and technical support.		

**ANNUAL PLAN  
WY2022**

Table 5 lists the activities in the WY2022 Annual Plan that will be funded through the Trust Fund and Renewal Fund revenues. The 2000 Cachuma Project Biological Opinion (BiOp) and associated LSYR Fish Management Plan (FMP) and the SWRCB Orders provide guidance on likely activities or projects for the use of the Trust Fund and Renewal Fund revenues. Even though some of the habitat restoration projects will be grant funded, the sum of these activities is still greater than the funding available from the Trust Fund and Renewal Fund. Tasks listed take into consideration restricted usage of the two Funds as stated in the Cachuma Project Warren Act Contract and Cachuma Project Renewal Master Contract, plus activities funded by the Santa Barbara County Water Agency Cachuma Betterment Fund. All Biological Opinion compliance work includes required monitoring, analyses and reporting.

**Table 5:** The Annual Plan for WY2022.

<b>2022 Revenues:</b>		
Trust Fund (CY2020)	\$43,086	
Renewal Fund (WY2022)	\$220,175	
<b>Total Funds Available:</b>		<b>\$263,261</b>
<b>2022 Expenditures:</b>		
<b>Environmental Restoration</b>		<b>\$25,000</b>
Oak Tree Restoration Program	\$25,000	
<b>Regulatory Requirements</b>		<b>\$188,261</b>
Monitoring, Analyses and Reporting	\$173,261	
Genetic Analyses	\$15,000	
<b>Cachuma Project Betterment</b>		<b>\$50,000</b>
<b>Total Expenditures:</b>		<b>\$263,261</b>

The Biological Opinion and SWRCB Orders compliance implementation program of work encompasses a wide range of field and analytical activities to comply with the 15 Reasonable and Prudent Measures outlined in the 2000 Cachuma Project BiOp and the monitoring plan described in the 2000 Biological Assessment and FMP. These efforts include monitoring steelhead migration throughout the LSYR basin, dry-season snorkel surveys, redd surveys, habitat mapping, water quality monitoring, GIS database development, beaver dam monitoring, stream discharge measurements, integrated multivariate database development, report writing, and public outreach.

The Oak Tree Restoration Program is a multi-year planting and maintenance effort to replace oak tree losses around Cachuma Reservoir due to saturation and inundation of trees near the shore resulting from the fish conservation surcharge pool. The program will continue until the mitigation ratio of 2:1 (planted to lost) has been accomplished after 20 years in 2025. The allocation for the Oak Tree Restoration Program is about half of the actual cost.

Wild fires are a continuous concern throughout the Santa Ynez River watershed and along the South Coast. Funds for Cachuma Project betterment (per Section 5e of the Warren Act MOU) have been dedicated to watershed protection activities (erosion control and Lake Cachuma water quality and



sedimentation). Tasks include but are not limited to prevention of erosion, facility protection from stormflow debris, water quality monitoring, and measures for improvement of general lake water quality. This effort will be of benefit to the *O. mykiss* fishery within the management area as well as water supply.

**BETTERMENT FUND**

For reference only, the Santa Barbara Water Agency shall provide \$100,000 per year into the Cachuma Betterment Fund that must be used for Cachuma Project related activities as specified in the 1996 Cachuma Project Member Unit Contracts between the County of Santa Barbara Water Agency and the Cachuma Project Member Units. The Cachuma Project Member Units and the Water Agency must mutually agree on the use of these funds. Representatives of the Betterment Fund convene an annual meeting not in association with the Trust and Renewal Funds annual meeting. Usage of the Betterment Funds since WY2012 and proposed usage in WY2022 are presented in Table 6. COMB has an annual contract with the U. S. Geological Survey (USGS) to perform the required stream gauging and water quality monitoring.

**Table 6:** Betterment Fund usage since Santa Barbara County Fiscal Year (FY) 2012 (7/1/11-6/30/12) and proposed usage in FY 2022 (7/1/21-6/30/22).

<b>FY2012 (July 2011 - June 2012)</b>		
Carryover from WY2011:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2013 (July 2012 - June 2013)</b>		
Carryover from WY2012:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2014 (July 2013 - June 2014)</b>		
Carryover from WY2013:		\$0
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2015 (July 2014 - June 2015)</b>		
Carryover from WY2014:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2016 (July 2015 - June 2016)</b>		
Carryover from WY2015:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>

<b>FY2017 (July 2016 - June 2017)</b>		
Carryover from WY2016:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$75,000
BiOp and FMP Implementation Activities		\$15,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2018 (July 2017 - June 2018)</b>		
Carryover from WY2017:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2019 (July 2018 - June 2019)</b>		
Carryover from WY2018:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2020 (July 2019 - June 2020)</b>		
Carryover from WY2019:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2021 (July 2020 - June 2021)</b>		
Carryover from WY2020:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>
<b>FY2022 (July 2021 - June 2022)</b>		
Carryover from WY2021:		\$0
Possible Expenditures:		
COMB USGS Santa Ynez River Gauging Program		\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program		\$10,000
		<b>\$100,000</b>

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## Santa Barbara County Public Works Department

Flood Control • Water Agency • Project Clean Water

130 E. Victoria Street, Suite 200, Santa Barbara, CA 93101

PH (805) 568-3440 FAX (805) 568-3434

<http://cosb.countyofsb.org/pwd/water>

**SCOTT D. MCGOLPIN**

Director

**THOMAS D. FAYRAM**

Deputy Director

June 18, 2021

Janet Gingras, General Manager  
Cachuma Operation and Maintenance Board  
3301 Laurel Canyon Road  
Santa Barbara, CA 93105

RE: Expenditure of County Water Agency's Cachuma Project Betterment Fund \$100,000  
Annual Contribution for Fiscal Year 2021-2022

Dear Ms. Gingras,

At the public meeting held on June 17<sup>th</sup> regarding the County Water Agency's \$100,000 Cachuma Betterment Fund, the Cachuma Operation and Maintenance Board (COMB), acting on behalf of the Cachuma Member Units, and the County Water Agency agreed that the funds should be allocated toward the following activities for Fiscal Year 2021-22:

COMB USGS Santa Ynez River Gauging Program	\$90,000
Santa Barbara County USGS Santa Ynez River Gauging Program	\$10,000
Total	\$100,000

COMB will recommend approval of the program expenditures at the Board of Directors meeting on June 28<sup>th</sup>. The Water Agency's FY 2021-22 budget adopted by the Board of Supervisors on June 8<sup>th</sup>, 2021 included the Betterment Funds.

Regards,

A handwritten signature in blue ink, appearing to read "MA", followed by a long, sweeping horizontal stroke.

Matt Young  
Water Agency Manager

cc: Edward Lyons, Cachuma Operation and Maintenance Board  
Tim Robinson, Cachuma Operation and Maintenance Board

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## 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.”*

June 28, 2021

## **General Manager Report**

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

### Administration

- **Comprehensive Annual Financial Report (Audit) - Fiscal Year 2019-20**

COMB's Comprehensive Annual Financial Report (CAFR) for fiscal year ending June 30, 2020 was awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association of the United States and Canada (GFOA). This was the fourth consecutive year that COMB has received this prestigious award. The Certificate of Achievement is the highest form of recognition for excellence in the state and local government financial reporting. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. The report must satisfy both generally accepted accounting principles and applicable legal requirements. Special recognition is conveyed honoring COMB's Administrative Division staff for their meticulous effort and continued achievements on obtaining this prestigious award.

### Virtual Meetings

- **Santa Barbara County Integrated Regional Water Management Plan**

On June 10, 2021, the Cooperating Partners of the Integrated Regional Water Management Program (IRWMP) held its virtual monthly meeting, led by Jane Gray. The Cooperating Partners received a presentation from Michelle Sevilla with Central Coast Climate Justice Network (3CJN). 3CJN is a network of local organizations and leaders working to advance the climate movement through social, economic, and environmental initiatives. The Cooperating Partners also received an update from Cathleen Garnan on changes to the Santa Barbara County Storm Water Resources Plan, in response to feedback received from the State Water Resource Control Board. Jane Gray, consultant with Dudek, reported on various standing items, which included the Disadvantaged Community Involvement (DACI) Assessment and the need for IRWMP subcommittees for Resource Management Strategies to address Climate Resilience, Wildfire Planning, and Regional Coordination. Last, she provided updates for legislation currently pending California state budget negotiations, as well as reviewing the letter drafted and sent last month to the Central Coast Funding Area (CCFA) regarding proposed changes to Prop 1, Round 2 funding.

- **Santa Barbara County Office of Emergency Services**

On June 14, 2021, COMB staff participated in a conference call scheduled and hosted by the Santa Barbara County Office of Emergency Services (OEM) related to a potential Southern California Edison Public Safety Power Shutdown (PSPS) event and Red Flag Warning. The purpose of the call was to inform agencies regarding details of possible power outages and coordinate mutual aid resources and/or relay potential impacts. COMB staff monitored the situation and was prepared to respond according to established standard operating procedures. The PSPS event was concluded on June 16, 2021 without incident.

Staff Professional Development

- **Operations Division Water Distribution Operator Certifications**

In 1998, the United States Environmental Protection Agency (USEPA) established guidelines for the certification and re-certification of operators of community public water systems. On January 1, 2001, new state regulations were adopted to comply with these guidelines and the existing water treatment operator certification program was modified accordingly. The new regulations also established a water distribution operator certification program. This program became the Drinking Water Operator Certification Program (DWOCP).

The DWOCP was originally under the Department of Health Services and then the California Department of Public Health. In 2014, the DWOCP was transferred to the State Water Resources Control Board (SWRCB) in the Division of Financial Assistance. The DWOCP is responsible for the testing and certification of approximately 35,000 water treatment and water distribution operators throughout the state of California.

During the past several months, COMB Operations Division personnel enrolled in classes to complete their Distribution Operator II coursework. I am pleased to inform the Board that Mr. Justin Waller and Mr. Kevin Johnson completed the coursework and passed the D2 exam for certification. COMB now has four (4) D2 certified operators and one (1) D3 certified operator on staff. We continue to pursue advanced certifications within the Operations Division.

Respectfully submitted,

*Janet Gingras*

General Manager





GOVERNMENT FINANCE OFFICERS ASSOCIATION  
**NEWS RELEASE**

**FOR IMMEDIATE RELEASE**

6/21/2021

**For more information contact:**  
**Michele Mark Levine, Director/TSC**  
**Phone: (312) 977-9700**  
**Fax: (312) 977-4806**  
**Email: [mlevine@gfoa.org](mailto:mlevine@gfoa.org)**

(Chicago, Illinois)—Government Finance Officers Association of the United States and Canada (GFOA) has awarded the Certificate of Achievement for Excellence in Financial Reporting to **Cachuma Operation and Maintenance Board** for its comprehensive annual financial report for the fiscal year ended June 30, 2020. The report has been judged by an impartial panel to meet the high standards of the program, which includes demonstrating a constructive "spirit of full disclosure" to clearly communicate its financial story and motivate potential users and user groups to read the report.

The Certificate of Achievement is the highest form of recognition in the area of governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management.

*Government Finance Officers Association (GFOA) advances excellence in government finance by providing best practices, professional development, resources, and practical research for more than 21,000 members and the communities they serve.*



Government Finance Officers Association

Certificate of  
Achievement  
for Excellence  
in Financial  
Reporting

Presented to

**Cachuma Operation and Maintenance Board  
California**

For its Comprehensive Annual  
Financial Report  
For the Fiscal Year Ended

June 30, 2020

*Christopher P. Morill*

Executive Director/CEO

# CACHUMA OPERATION AND MAINTENANCE BOARD

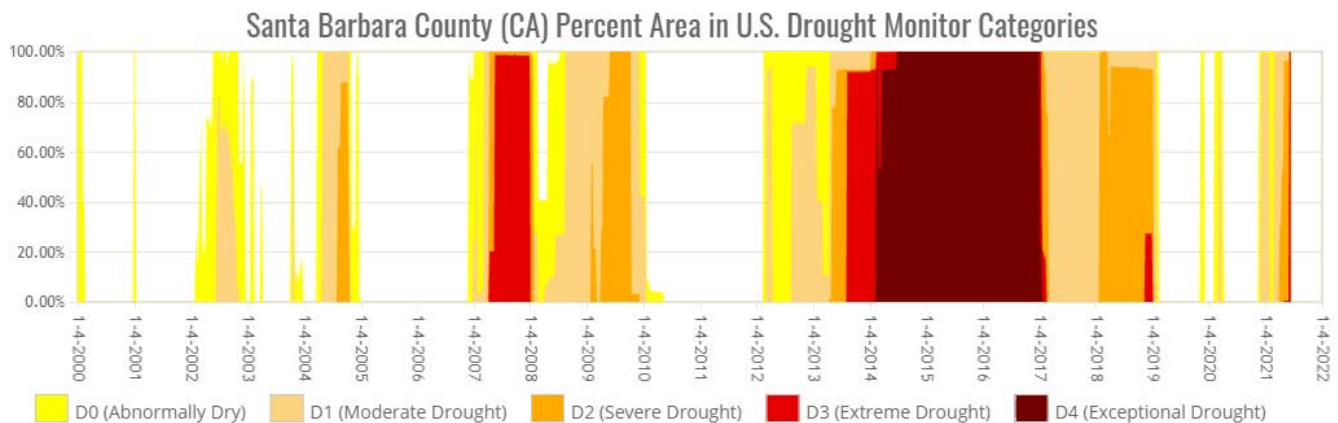
## MEMORANDUM

**DATE:** June 28, 2021  
**TO:** Janet Gingras, General Manager  
**FROM:** Joel Degner, Engineer/Operations Division Manager  
**RE: MONTHLY ENGINEERING REPORT**

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

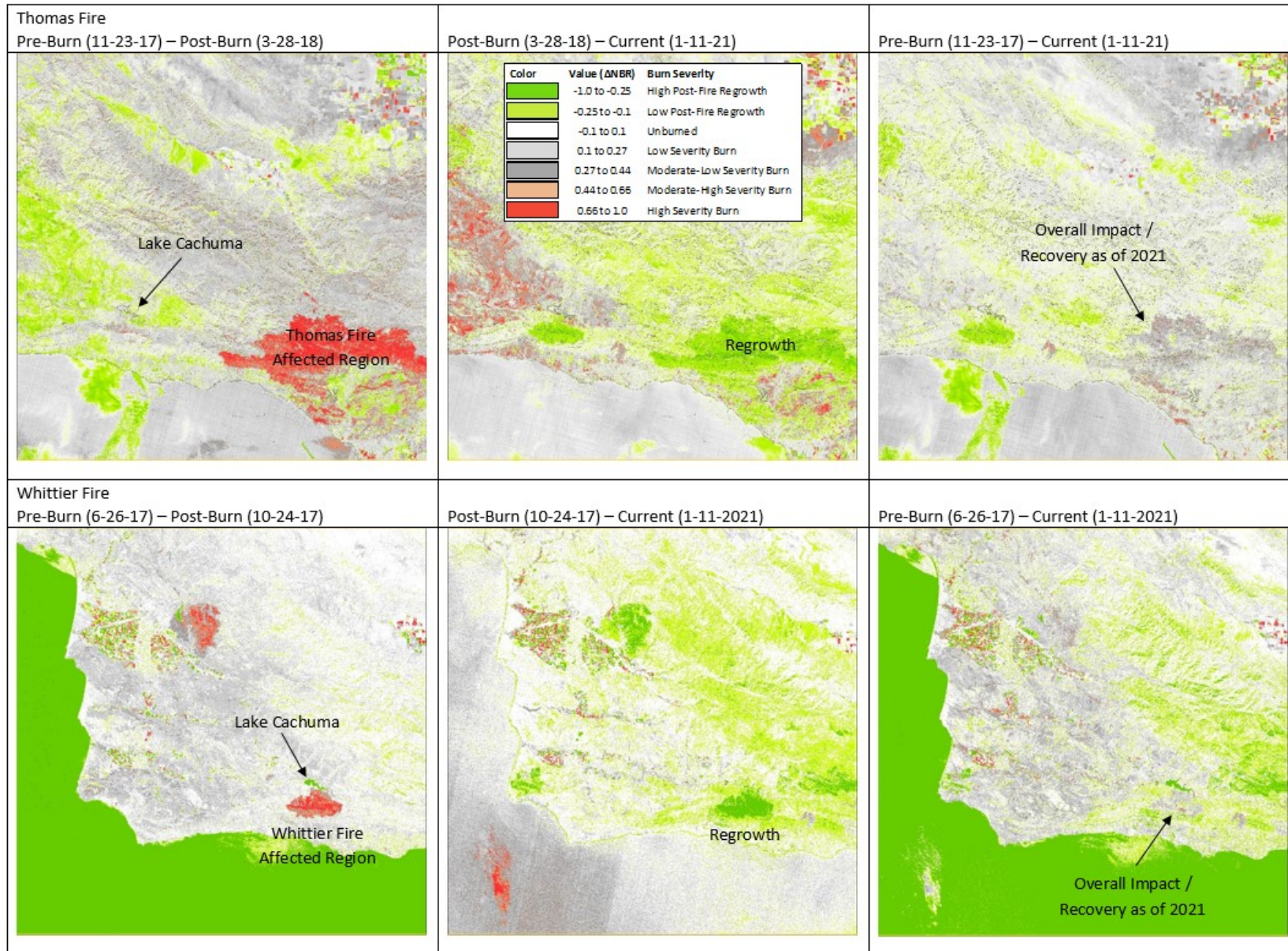
### CLIMATE CONDITIONS

The drought classification for South Coast of Santa Barbara County was upgraded to severe drought (as of 6/17/21) by U.S. Drought Monitor. Figure 1 provides the historical drought monitor categories for Santa Barbara County. Drought conditions have dominated the last decade. The live fuel moisture measured at Cachuma is 67% as of 6/17/21 which is lower than the historical average of 80% for this time of year. Live fuel moisture levels below 60 percent are considered critical by Santa Barbara County Fire and can cause extreme wildfire behavior.



### VEGETATION RECOVERY FOLLOWING WILDFIRES

The possibility of using drone reforestation technology was brought to our attention as an efficient resource alternative to conventional plantings. COMB staff researched the viability of drone seeding in the Upper Santa Ynez River Watershed, and held an informational meeting with drone reforestation contractor on possible options. Based on our discussions, drone reforestation in the Santa Ynez watershed has several challenges. Given the high post-fire regrowth which has already occurred since the Thomas Fire (December 2017 – March 2018) and the Whittier Fire (July 2017 – October 2017) (see Figure 2), there would be significant site preparation that would be required prior to placing seed vessels (pucks). Drone seeding would be most effective immediately following fires. Drone battery life currently limits the application to be within 400 meters of an accessible road which precludes much of the Santa Ynez River watershed. In addition, drone reforestation techniques have primarily been conducted on conifer species outside of California. Additional research would be needed into native seed sourcing, puck packing technology, and dispersal best packages for use in the Santa Ynez River watershed. The chaparral vegetation that dominates most of the Santa Ynez River watershed also has substantial seed banks that benefit from medium intensity fires. Additional research or study would be needed if targeted drone seeding would be beneficial in chaparral-dominated vegetation. Otherwise the application may only be limited to higher – elevation conifer forest that only occur near the top of the mountains in the Santa Ynez River watershed.



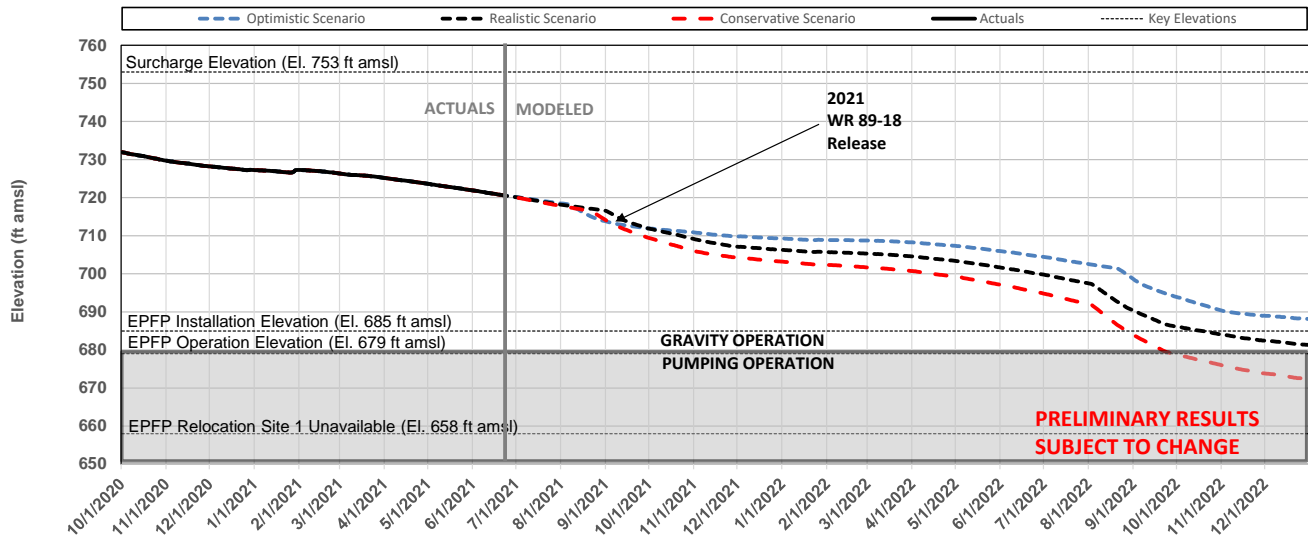
**Figure 1.** Differenced Normalized Burn Ratio (dNBR) showing burned areas and vegetative regrowth after the Thomas and Whittier fires



## LAKE ELEVATION PROJECTIONS

Lake Cachuma is currently at 56.9% capacity (720.65' as of 6/21/21). Figure 1 provides an update to the forecast of lake elevations if dry conditions continue. These modeling projections utilize hydrology from water year 2012-2013 for continued dry conditions. The anticipated amount to be released by Santa Ynez River Water Conservation District is 8,000 to 12,000 acre-feet but this estimate is preliminary and subject to change. COMB staff has been working closely with Member Agency and Reclamation staff on future planning for continued dry conditions.

Parameter	Optimistic	Realistic	Conservative
SCC Exports	80% Forecast	Forecast	120% of Forecast
CCWA Inflow	120% Forecast	Forecast	80% of Forecast
WR 89-18 Release (2021)	8000 AF	10,500 AF	12,000 AF
WR 89-18 Release (2022)	12000 AF	10,500 AF	10,500 AF



**Figure 1.** Lake Cachuma Elevation Projection Assuming Dry Year Hydrology (as of 6/23/21)

Based on the projected lake elevation assuming dry year hydrology, the emergency pumping facility project (EPFP) would need to be installed in the summer of 2022. As currently design, the proposed Secured Pipeline Project would be installed at water elevations of 710' or less which also would occur in 2022 if dry conditions continue. An elevation of 710' or less reduces the project cost by reducing the complications associated with higher lake elevations (diving limitations, pipeline bending stresses, pile installation, and sedimentation excavation).

## CALTRANS HIGHWAY 192 PAVING

Caltrans is re-paving Highway 192 from Linden Rd to Casitas Pass Road in July 2021. There are nine valves cans and two maintenance holes that will be impacted during the paving. CalPortland was selected as contractor to perform the repaving work by CalPortland. COMB entered in a contract with CalPortland for \$18,925 to adjust the valve cans and maintenance holes to grade once paving has been completed.

## **INFRASTRUCTURE IMPROVEMENT PROJECTS**

Table 1 provides a summary of the status of Fiscal Year 2020-21 projects.

**Table 1. Fiscal Year 2020-2021 Infrastructure Improvement Projects**

<b>Infrastructure Improvement Projects</b>	<b>Status / Phase</b>	<b>Complexity / Challenges</b>	<b>Estimated Completion Date</b>
<b>Infrastructure Improvement Projects</b>			
SCADA System	COMB entered into a contract with Aspect Engineering to replace the six remaining legacy PLCs. Aspect replaced PLC 2 in June and plans to replace PLC 5, 6 and 9 are the remaining PLC to be replaced.	COMB SCADA system was installed in 2004 and existing hardware is obsolete and in need of replacement. PLC replacements will require coordination with COMB's Member Agencies.	PLC upgrades are planned to be completed by 2022.
COMB Building and Ground Repair	Admin and Fisheries modular office building replacement approved by the board. Fabrication of the building commenced in April with installation planned in August/September.	COMB Admin and Fisheries modular offices will be replaced in-kind to limit complexity and challenges of construction.	Modular buildings began fabrication in April and will be installed in August/September.
SCC Structure Rehabilitation : AVAR/BO Valves	Contract in place and work on four structures was conducted in March without a shutdown. Eight structures remain to be rehabilitated.	COMB prioritized non-shutdown related work that could be completed this winter. COMB staff is planning next year's work.	Shutdowns need to be coordinated with Reclamation and CVWD.
SCC Line Valves for Shutdown	Design of the La Mirada line valve in Carpinteria has been finalized. COMB has received Caltrans permit and Reclamation MP-620 approval for the project.	Additional line valve(s) are needed in Carpinteria to facilitate shutdown work. A Cooperative Agreement between CVWD and COMB is proposed to facilitate the work which will require approval by COMB's board.	Construction likely occur in Fall/Winter (Oct to Dec) of 2021.
SCC Structure Rehabilitation : Lower Reach Laterals	COMB and CVWD staff exercised the valves on the laterals to determine how well they can be operated. COMB/CVWD are reviewing the updated designs for the project.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement. COMB is collaborating with CVWD on this project.	Construction will depend on collaboration with CVWD and likely to commence in Fall/Winter 2021/2022.
<b>Special Projects</b>			
Emergency Pumping Facility - Secured Pipeline Project	For the existing EPFP system - Key components of the barge are currently being stored under contract and 3600 feet of pipeline are stored at the lake shore at Lake Cachuma. Engineering designs have been submitted to Reclamation for their MP620 review for the Secured Pipeline Project. Reclamation is in the process of conducting the NEPA review.	The lake elevation is projected to remain above 685' until the Summer/Fall 2022. Installation of the EPFP is needed when the elevation is projected to fall below 685'.	Construction could occur in Summer of 2022 depending on lake elevations.
Watershed Sanitary Survey Update	Geosyntec is in the process of conducting interviews and performing field visits for the survey and will continue through June. Geosyntec is in the process of preparing the draft report.	The update is a collaborative effort with COMB's member agencies, Santa Ynez, and the City of Lompoc.	Sanitary Survey is due by October 2021.
Lake Cachuma Water Quality and Sediment Management Study	The Study was completed in August 2020. COMB staff continues to implement recommended action items. These include the Secured Pipeline Project, updated bathymetric survey (planned by the County in 2021), and phosphorous/TOC source study (tentatively planned for Fall of 2021). COMB staff has increased frequency and locations of lake profiles to better document the lake turnover and prepared a presentation on that data at the ESRI conference.	Additional sampling is needed to better understand nutrient and total organic sources prior to determining if additional larger actions at the lake would make sense from a cost-benefit stand point.	TBD

## CACHUMA OPERATION AND MAINTENANCE BOARD

**DATE:** June 28, 2021  
**TO:** Janet Gingras, General Manager  
**FROM:** Shane King, Operations Supervisor  
**RE:** **MONTHLY REPORT OF OPERATIONS – May 2021**

The total flow from Lake Cachuma into the Tecolote Tunnel for May was 2,497.7 acre-feet, for an average daily flow of 80.5 acre-feet. Lake elevation was 723.61 feet at the beginning of May and 721.94 feet at the end of May. Lake storage decreased by 3,720 acre-feet. There was 68.9 acre-feet of inflow from CCWA into Cachuma Project facilities this month. The City of Santa Barbara wheeled 70.61 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was utilized and delivered 306.1 acre-feet of water to Hilton Creek for the month of May.

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

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

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

Operations staff continue to follow the implemented physical distancing measures as a response to COVID-19. Operators utilize separate vehicles and mostly completed work that could be done by one staff member or with appropriate physical distance if multiple staff are required. Routine operation and maintenance completed during the month of February were as follows:

- 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.

### **Ongoing Monthly Operations Items:**

- Conducted several flow changes at the North Portal during the month
- Reviewed several projects for conflicts within the SCC right of way
- Received and responded to 104 USA Dig alerts
- Performed weekly inspections of major facilities, safety meetings, rodent bait (all reservoirs), toe drain and piezometer reads at Ortega (L23)
- Performed dam inspection and instrumentation reports (all reservoirs)
- Performed equipment and yard maintenance
- Performed monthly North Portal elevator maintenance with Otis
- Performed monthly water quality sampling
- Read anodes and rectifier data

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

- The fish screens for the slide gates on the intake tower were cleaned and inspected. Inspection includes the condition of the sacrificial anodes, condition of the screens themselves, and to verify there is no signs of mussel/clam formations.
- The slide gates on the Intake Tower at Cachuma Lake were exercised and greased to ensure proper functionality.
- COMB installed "CRACKMON 4020A" crack monitors at all locations where cracks are occurring on the anchor piers based on a recommendation from Bureau of Reclamation during the last comprehensive facility review site visit. The cracks will be periodically monitored for movement in the future.
- COMB replaced the PLC at the North Portal at Lake Cachuma with help from Aspect Engineering services.
- COMB replaced two radio modems for PLC 8 which provides communication data sharing from COMB to Cater Water Treatment Plant. The original radio modems were outdated and no longer readily available. The updated modems are a more efficient and faster speed and are more easily obtainable.
- Fence factory was hired to repair a hole that was cut in the fence line around Lauro reservoir.
- The annual Load bank testing and oil changes on the backup generators for the Lauro yard and the North Portal at Lake Cachuma were conducted by Quinn Company.
- The annual testing/inspection of the motorized hoist at the North Portal at Lake Cachuma was completed by ALL CAL services.
- COMB personnel replaced the batteries in the battery backup uninterrupted power supply for the SCADA machine and workstation at the Lauro yard. There were a total of 24 batteries replaced in all.
- COMB personnel repaired a 2" air vent that was struck by a piece of equipment near East Valley road and Sheffield drive in Montecito. The air vent and the 2" valve directly below was sheared off, the Operations crew installed a new 2" valve and air vent.
- Operations personnel cleared brush and trimmed trees away from buildings in the Lauro yard to comply with the Santa Barbara County Fire Department's defensible space program.



Air vent repair



Crack Monitors installed on Lauro Outlet Works Anchor Piers



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# CACHUMA OPERATION AND MAINTENANCE BOARD

## BOARD MEMORANDUM

**DATE:** June 28, 2021  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE: MONTHLY FISHERIES DIVISION REPORT**

### HIGHLIGHTS:

- USBR continues to deliver the required 2000 Biological Opinion target flows to Hilton Creek (minimum of 2 cfs) by gravity through the Hilton Creek Watering System (HCWS) (and Hilton Creek Emergency Backup System as of 6/8/21) at approximately 4.9 cfs to the Upper Release Point (URP) which is sustaining the *O. mykiss* population in the creek.
- The 2000 BiOp and Order WR 2019-0148 target flows to the Hwy 154 Bridge (2.5 cfs) are being met by USBR for a Critically Dry water year (so far) through releases to Hilton Creek and from the Outlet Works to the Lower Santa Ynez River (LSYR) mainstem.
- USBR activated the Hilton Creek Emergency Backup System (HCEBS) on 6/8/21 to provide gravity flow to the URP. COMB Fisheries Division (FD) staff collaborated with the effort by monitoring Hilton Creek during the operation.

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

### LSYR Steelhead Monitoring Elements:

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

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

***Redd Surveys:*** Redd surveys are conducted approximately every two weeks from mid-January through May. Surveys are conducted within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access is permitted, and certain sections of Hilton, Quiota,

and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Report/Summary.

**Snorkel surveys:** Snorkel surveys for *O. mykiss* and non-native fish are conducted two times a year (Spring and Fall). The Spring Snorkel Survey was started last month and will be completed by the middle of July. The results are presented in the annual monitoring report.

During the Spring Snorkel Survey, it was observed that a couple of habitats with *O. mykiss* were isolated (no streamflow in or out) and water quality conditions were deteriorating. Staff informed USBR, NMFS and CDFW. Then concurrence was obtained by CDFW from NMFS to conduct a fish rescue and relocation effort. COMB-FD worked collaboratively with CDFW to rescue 10 *O. mykiss* on 5/8/21 in the Refugio reach and 2 *O. mykiss* on 5/25/21 in the Narrows Reach that were successfully relocated to suitable and sustainable habitats in the Highway 154 Reach and Salsipuedes Creek, respectively.

### **Tributary Project Updates:**

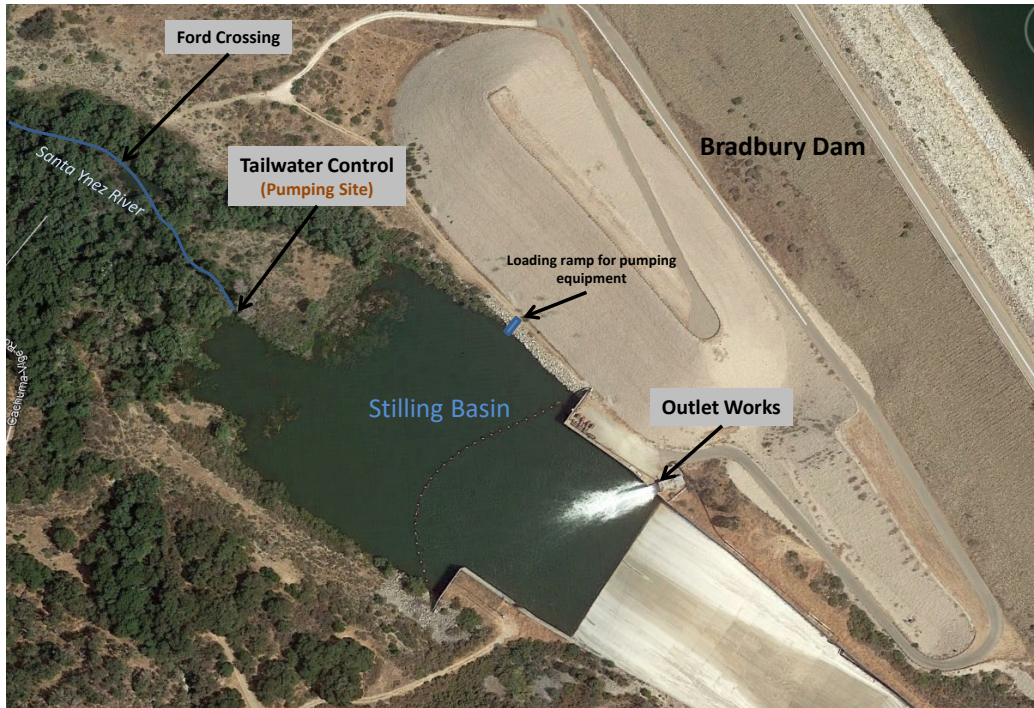
All planned projects have been successfully completed.

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

**HCWS and HCEBS:** The HCWS and HCEBS are owned, operated, and maintained by USBR. The HCEBS was completed at the end of January 2016. USBR technical staff continues to consider improvement options for the HCWS. Currently USBR is delivering water to Hilton Creek through the HCWS and the HCEBS by gravity flow to the Upper Release Point (URP).

The HCEBS delivery floating pipeline across the Stilling Basin was removed on 2/5/20 and then reinstalled between 3/2/21 and 3/4/21. USBR successfully replaced two malfunctioning valves associated with the HCEBS on 5/12/21. USBR requested that COMB-FD staff conduct all the necessary biological monitoring as well as maintain river discharge downstream of the Stilling Basin throughout the operation since the Outlet Works releases needed to be shutoff during the operation. Staff installed and operated a sequence of portable pumps at the tailout of the Stilling Basin and successfully provided the required target flow releases during the operation (Figures 1-4). There were no impacts to the LSYR fishery or water quality conditions from the operation. The HCEBS was tested and is now fully operational.

On 6/8/21, USBR activated the HCEBS on gravity flow to the URP. Now both the HCWS and HCEBS provide gravity flow to the URP. As the lake level drops, more water will be coming from the HCEBS until the HCWS loses syphon (anticipated around lake level 719 ft) at which point the HCEBS will be the only system supplying water to Hilton Creek by gravity flow.



**Figure 1:** Layout of the COMB-FD operated pumping system at the tailwater control of the Stilling Basin during the USBR valve replacement project.



**Figure 2:** Delivery of the pumping system to the Stilling Basin tailwater control.

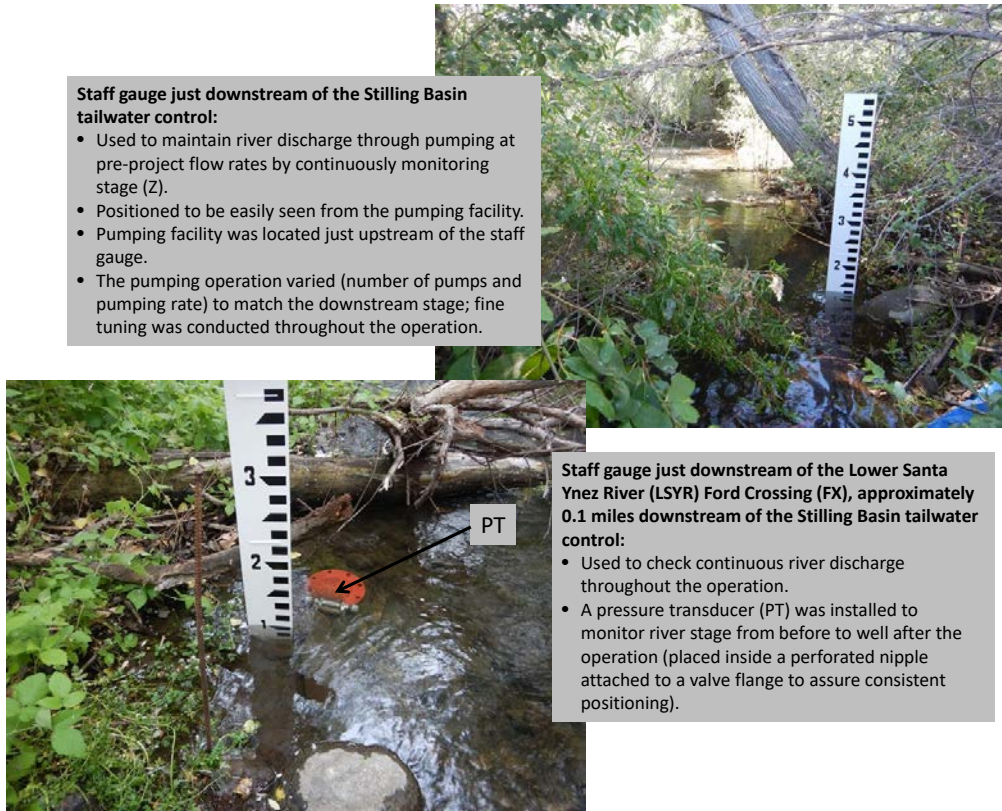




**Tailwater control pumping system setup:**

- Five gas powered trash pumps (4 3-inch + 1 4-inch) all setup in containment vessels (3 on land and 2 on the kayak barge).
- Three electric 2-inch submersible pumps (2 in the water and 1 backup); power was provided by a generator placed in a containment vessel.
- All pump intake hoses were screened inside trash cans to eliminate entrainment and impingement.

Figure 3: Setup and operation of the pumping system.



**Staff gauge just downstream of the Stilling Basin tailwater control:**

- Used to maintain river discharge through pumping at pre-project flow rates by continuously monitoring stage (Z).
- Positioned to be easily seen from the pumping facility.
- Pumping facility was located just upstream of the staff gauge.
- The pumping operation varied (number of pumps and pumping rate) to match the downstream stage; fine tuning was conducted throughout the operation.

**Staff gauge just downstream of the Lower Santa Ynez River (LSYR) Ford Crossing (FX), approximately 0.1 miles downstream of the Stilling Basin tailwater control:**

- Used to check continuous river discharge throughout the operation.
- A pressure transducer (PT) was installed to monitor river stage from before to well after the operation (placed inside a perforated nipple attached to a valve flange to assure consistent positioning).

Figure 4: Monitoring stream stage and water quality throughout the operation.

**Surcharge Water Accounting:**

The following table summarizes the amount of surcharge water used to date from each of the three accounts plus unallocated project water at the end of last month (Table 1). All numbers are from the USBR’s Daily Operations Report. The start time for the use of the Surcharge Water Accounts and Project Yield was 5/27/11, or the day following the last day of full surcharge and end of the last spill event. As of May 2012, all of the fish rearing account has been used and USBR is now using Project water to meet BiOp target flows. Water Right (WR 89-18) release durations since 2013 are noted as follows: 7/15/13 - 12/2/13, 8/18/14 -11/11/14, 8/3/15 - 9/26/15, 7/12/16 - 8/29/16, 8/21/17 - 11/8/17, 8/6/18 – 9/12/18, and 8/31/20 – 11/30/20. There were no WR 89-18 releases in 2019. The 2020 WR 89-18 release officially released 10,480 af over 92 days. During these releases, no fish rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. The remaining amount in the AMA is 351 acre-feet. All of the Fish Passage Supplementation Account (FPSA) has been used as of WY2019; all additional releases for fish passage are from Unallocated Project Water as determined by USBR.

**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>			
<b>WY2019</b>	3,200	3,307	-107
<b>WY2020</b>	0	2,558	-2,558
<b>Adaptive Management</b>	500	149	351
<b>Fish Rearing***</b>	8,684	8,684	0
<b>Unallocated Project Water</b>		23,115	
<b>Total:</b>	9,184	37,813	-2,314
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 5/31/21.			
*** 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 has been assisting USBR upon request in reviewing draft sections and conducting data analyses for their preparation of the new draft Biological Assessment and WR 2019-0148 required Plans.

Staff has started working on the WY2021 Annual Monitoring Report/Summary.

**Outreach and Training:** Outreach continues with Lower Santa Ynez River landowners (specifically in the Quiota Creek and Salsipuedes Creek watersheds), 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 Garello and Shaun Bevan) – no work was conducted during this past month.

**Kenneth A. Knight Consulting** (Ken Knight) – made a site visit to all planting areas and provided recommendations on summer watering efforts.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	June 28, 2021
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

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

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**RECOMMENDATION:**

For Board information only.

**SUMMARY:**

***Maintenance***

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since July, 2020 to the present (7/2/20 – 6/28/21, Table 1). Labor and expenses for the entire fiscal year (July 2020 - June 2021) 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 set the mitigation numbers for the Program. The 2019 Annual Report with the annual inventory and Fiscal Year 2019-20 financials was completed and reviewed by the Lake Cachuma Oak Tree Committee on 9/3/20 and the COMB Board on 10/26/20 that approved going forward with planting another 300 oak trees and replacing 100 dead oak trees during the wet season of this water year.

***Annual Inventory and Report***

Analyzing the data and developing the 2020 Annual Report is ongoing. The Annual Report will be completed shortly after the end of this Fiscal Year and an Oak Tree Committee meeting will be scheduled shortly thereafter.

**Table 1: Cachuma Oak Tree Program completed tasks since July, 2020.**

	Sept 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021 <sup>1</sup>	Feb 2021 <sup>1</sup>	March 2021 <sup>1</sup>	April 2021	May 2021	June 2021
<b>Year 12 Oaks (2020-2021)</b>				New Trees	New Trees	QA/QC	Irrigated	Irrigated	Irrigated	Irrigated
				Gopher Baskets	Gopher Baskets	Tree Tags	Weeded	Weeded	Weeded	Weeded
				Fert/Comp	Fert/Comp					
				Deer Cages	Deer Cages					
				Mulch/Irrigated	Mulch/Irrigated					
<b>Year 11 Oaks (2019-2020)</b>	Irrigated		Irrigated	Irrigated	Irrigated			Irrigated	Irrigated	
	Weeded		Weeded	Weeded	Weeded			Weeded	Weeded	
<b>Year 10 Oaks (2018-2019)</b>		Irrigated	Irrigated	Irrigated	Irrigated			Irrigated	Irrigated	
		Weeded	Weeded	Weeded	Weeded			Weeded	Weeded	
									Deer Cages	
<b>Year 9 Oaks (2016-2017)</b>		Irrigated	Irrigated	Irrigated					Irrigated	
		Weeded	Weeded	Weeded					Weeded	
									Deer Cages	
<b>Year 8 Oaks (2015-2016)</b>	Irrigated		Irrigated						Irrigated	Irrigated
	Weeded		Weeded						Weeded	Weeded
<b>Year 7 Oaks (2014-2015)</b>	Irrigated									
	Weeded									
<b>Year 6 Oaks (2010-2011)</b>										
<b>Year 5 Oaks (2009-2010)</b>										
<b>Year 4 Oaks (2008-2009)</b>		Deer Cages								
<b>Year 3 Oaks (2007-2008)</b>		Deer Cages								
<b>Year 2 Oaks (2006-2007)</b>										
<b>Year 1 Oaks (2005-2006)</b>										
<sup>1</sup> Oak tree inventory.										

The Fisheries Division staff is in full irrigation mode (2 watering teams, when possible) and is working quickly to water the newer age classes of oak trees (Year 8 through Year 12), particularly since no significant storms have impacted the area since January.

When watering a tree, as the soil surface becomes saturated, crews are carefully hand weeding around the base of each tree, repositioning stakes as needed, and removing accumulated dirt around the root crown to prevent root rot and to allow proper aeration at the base of each tree.

Crews have also been removing deer cages on the Year 8, 9 and 10 trees that have reached 6 feet in height. When a cage is removed, the tree posts are also being removed. A single tree post is then pounded on the eastern side of the oak (several feet away) to facilitate a new tree tag location. Tree tags are replaced if the unique number identification has become too difficult to read. This makes the subsequent tree inventory go smoothly with fewer errors.

**LIST OF EXHIBITS:**

No Exhibits.

**CACHUMA OPERATION AND MAINTENANCE BOARD  
METERED USE REPORT FOR MAY 2021**

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		374.84	18+62	G. WEST	125.33
Boundary Meter - West		(0.03)	78+00	Corona Del Mar FILTER Plant	911.58
			122+20	STOW RANCH	3.96
				SWP CREDIT (Warren Act Contract)	0.00
				Raytheon (SWP) (Warren Act Contract)	(9.00)
				Morehart (SWP) (Warren Act Contract)	(12.00)
			<b>TOTAL</b>		<b>1,019.86</b>
			<b>MONTECITO WATER DISTRICT</b>		
			260+79	BARKER PASS	89.27
			386+65	MWD YARD	9.10
			487+07	VALLEY CLUB	0.71
			499+65	E. VALLEY-ROMERO PUMP	240.09
			510+95	MWD PUMP (SWD)	15.23
			510+95	ORTEGA CONTROL	13.14
			526+43	ASEGRA RD	1.70
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.02
			599+27	TORO CANYON	6.39
				SWP CREDIT (Warren Act Contract)	0.00
			<b>TOTAL</b>		<b>375.65</b>
			<b>CITY OF SANTA BARBARA</b>		
			CATER	INFLOW	1,678.28
			Gibraltar	PENSTOCK	(70.61)
			CATER	SO. FLOW	(960.66)
			Sheffield	SHEF.LIFT	183.19
				SWP CREDIT (Warren Act Contract)	0.00
				La Cumbre (SWP) (Warren Act Contract)	(22.26)
			<b>TOTAL</b>		<b>807.94</b>
			<b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b>		
				COUNTY PARK, ETC	1.92
			<b>TOTAL</b>		<b>1.92</b>
			<b>BREAKDOWN OF DELIVERIES BY TYPE:</b>		
				STATE WATER DELIVERED TO LAKE	69.00
				STATE WATER TO SOUTH COAST including from stored	43.26
			<b>METERED DIVERSION</b>		<b>2,580.19</b>
<p>SWP CREDIT (Warren Act Contract) 0.00</p> <p><b>TOTAL 374.81</b></p> <p>Note: Meter reads were taken on: 6/1/2021</p>					

**WATER YEAR 20-21 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF MAY 2021 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

<b>CACHUMA PROJECT</b>		
<b>WATER PRODUCTION:</b>	<b>MONTH</b>	<b>WYTD</b>
Cachuma Lake (Tec. Diversion)	2,584.3	14,673.8
Tecolote Tunnel Infiltration	52.3	630.1
Cachuma Lake (County Park)	1.9	11.2
<b>Subtotal - Water Production</b>	<b>2,638.5</b>	<b>15,315.2</b>
<b>WATER DELIVERIES:</b>		
State Water Diversion	43.3	247.4
Cachuma Diversion	2,580.2	15,279.2
Storage gain/(loss) <sup>(2)</sup>	35.0	(28.5)
<b>Subtotal - Water Deliveries</b>	<b>2,658.4</b>	<b>15,498.2</b>
<b>Total Water Production</b>	<b>2,638.5</b>	<b>15,315.2</b>
<b>Total Water Deliveries</b>	<b>2,658.4</b>	<b>15,498.2</b>
<b>Difference = Apparent Water Loss</b>	<b>(19.9)</b>	<b>(183.0)</b>
% Apparent Water Loss	-0.76%	-1.20%

**SCC APPARENT WATER LOSS ALLOCATION (AWL) <sup>(3)</sup>**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>TOTAL</b>
<b><u>CURRENT MONTH CHARGE / (ADJUSTMENT)</u></b>					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
<b>Total Current Month</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b><u>WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)</u></b>					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
<b>Total AWL Charged (WYTD)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total AWL Not Charged (WYTD)</b>					<b>(183.0)</b>
<b>Total AWL Incurred (WYTD)</b>					<b>(183.0)</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><u>CURRENT MONTH</u></b>						
Water Usage						
M&I	754.7	807.9	346.9	178.3	1.9	2,089.8
Agricultural	265.2	0.0	28.8	196.5	N/A	490.4
<b>Subtotal Project Water Use</b>	<b>1,019.9</b>	<b>807.9</b>	<b>375.7</b>	<b>374.8</b>	<b>1.9</b>	<b>2,580.2</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	18.8	174.0	22.4	1.0	13.4	229.6
<b>Total Project Water Charge</b>	<b>1,038.7</b>	<b>982.0</b>	<b>398.1</b>	<b>375.8</b>	<b>15.3</b>	<b>2,809.8</b>
<b><u>WATER YEAR-TO-DATE</u></b>						
Water Usage						
M&I	5,269.4	3,843.7	1,858.3	1,226.6	11.2	12,209.3
Agricultural	1,593.9	0.0	144.3	1,331.8	N/A	3,069.9
<b>Subtotal Project Water Use</b>	<b>6,863.3</b>	<b>3,843.7</b>	<b>2,002.6</b>	<b>2,558.4</b>	<b>11.2</b>	<b>15,279.2</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	223.8	925.9	149.9	50.5	64.5	1,414.6
<b>Total Project Water Charge (*)</b>	<b>7,087.2</b>	<b>4,769.6</b>	<b>2,152.5</b>	<b>2,608.9</b>	<b>75.7</b>	<b>16,693.8</b>

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

**WATER YEAR 20-21 CACHUMA PROJECT ALLOCATION**  
**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**WATER PRODUCTION AND WATER USE REPORT**  
**FOR THE MONTH OF MAY 2021 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 - 10/1/2020</b>	8,297.4	20,298.1	4,015.7	2,410.8	1,303.6	36,325.6
Transfers/Adjustment	0.0	0.0	0.0	0.0	0.0	0.0
<b>(-) Project Water Charge (WYTD)</b>	<b>7,087.2</b>	<b>4,769.6</b>	<b>2,152.5</b>	<b>2,410.8</b>	<b>75.7</b>	<b>16,495.7</b>
<b>Balance Carryover Water</b>	<b>1,210.2</b>	<b>15,528.5</b>	<b>1,863.2</b>	<b>0.0</b>	<b>1,227.9</b>	<b>19,829.9</b>
<b>Current Year Allocation <sup>(5)</sup></b>	<b>9,322.0</b>	<b>8,277.0</b>	<b>2,651.0</b>	<b>2,813.0</b>	<b>2,651.0</b>	<b>25,714.0</b>
<b>(-) Balance of Project Water Charge (WYTD)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>198.1</b>	<b>0.0</b>	<b>198.1</b>
<b>Net Allocation Available Before Adjustments</b>	<b>9,322.0</b>	<b>8,277.0</b>	<b>2,651.0</b>	<b>2,614.9</b>	<b>2,651.0</b>	<b>25,515.9</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>	69.0	46.0	46.0	30.0	(191.0)	0.0
Transfers/Adjustment - SB/La Cumbre	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - Bishop Ranch <sup>(7)</sup>	100.0	0.0	0.0	0.0	0.0	100.0
Transfers/Adjustment - Juncal Transfer	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - GWD/SB Overlap	0.0	0.0	0.0	0.0	0.0	0.0
<b>Balance Current Year Allocation</b>	<b>9,491.0</b>	<b>8,323.0</b>	<b>2,697.0</b>	<b>2,644.9</b>	<b>2,460.0</b>	<b>25,615.9</b>
<b>Total Cachuma Project Water Available</b>	<b>10,701.2</b>	<b>23,851.5</b>	<b>4,560.2</b>	<b>2,644.9</b>	<b>3,687.9</b>	<b>45,445.8</b>

**Footnotes**

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only.
- (3) Based on correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted for water loss based on lake conditions
- (4) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (5) Per USBR, 100% allocation to Member Agencies, effective 10/1/20.
- (6) Per SWP Exchange Agrmt GWD received 44 AF; City of SB received 29 AF; MWD received 29 AF and CVWD received 19 AF from ID#1 in May 2021.
- (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 May was 69 AF.

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

MONTH: **MAY 2021**

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

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

**LAURO RESERVOIR**

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	<b>546.4</b>	Feet
Water in Storage	452.84	AF

**ORTEGA RESERVOIR**

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	<b>451.3</b>	Feet
Water in Storage	33.72	AF

**CARPINTERIA RESERVOIR**

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	<b>376.5</b>	Feet
Water in Storage	26.82	AF

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

Change in Storage	513.38	AF
	35.22	AF

**CACHUMA RESERVOIR**

Capacity at 750' elevation: <sup>(2)</sup>	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF

Stage of Reservoir Elevation	<b>721.94</b>	Feet
Water in Storage	<b>112,810</b>	AF
Surface Area	<b>2,126</b>	Acres
Evaporation	<b>976.1</b>	AF
Inflow	<b>187.0</b>	AF
Downstream Release WR8918	<b>0.0</b>	AF
Fish Release (Hilton Creek)	<b>306.1</b>	AF
Outlet	<b>194.0</b>	AF
Spill/Seismic Release	<b>0</b>	AF
State Water Project Water	<b>68.90</b>	AF
Change in Storage	<b>-3,720</b>	AF
Tecolote Diversion	<b>2,497.7</b>	AF

<b>Rainfall:</b>	<b>Month:</b> 0.00	<b>Season:</b> 11.84	<b>Percent of Normal:</b> 60%
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(1) Glen Annie Reservoir is currently offline and excluded from Total Storage in Reservoirs amount.

(2) In 2014, flashboard installation raised Cachuma Reservoir max elevation to 753' (193,305 AF); surcharge water reserved for fish releases.

**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 (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake			
2020																																					
Bal. Frwd						0						0						0						0					0					12			0
January	143	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0	52	0	0	0	0	0	0	0	143	12	0	(52)	79	0	0	12	0	0	0		
February	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	36	0	0	12	4	4	0		
March	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	40	0	0	48	4	4	12	2	2	0		
April	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	54	0	0	24	3	3	12	3	3	0		
May	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	69	0	0	0	3	3	12	3	3	0		
June	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	93	0	0	55	2	2	12	5	5	0		
July	275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	272	87	1	0	239	0	0	12	3	3	0		
August	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	83	3	0	224	4	4	12	10	10	0		
September	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	23	2	0	214	0	0	12	7	7	0		
October	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	2	2	0	279	2	2	12	3	3	0		
November	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	63	1	0	298	4	4	12	2	2	0		
December	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1	0	286	3	3	12	7	7	0		
<b>Total</b>	<b>1002</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>928</b>	<b>579</b>	<b>11</b>	<b>-52</b>	<b>286</b>	<b>25</b>	<b>25</b>	<b>12</b>	<b>49</b>	<b>49</b>	<b>0</b>		

(\*) Adj / Notes:

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 (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake				
2021																																						
Bal. Frwd						0						0						0						0					286			12	0	0	12	0	0	0
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	273	0	0	12	0	0	0			
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	265	0	0	12	0	0	0			
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	2	0	198	0	0	12	0	0	0			
April	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	2	0	174	1	1	12	0	0	0			
May	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	22	2	0	198	9	9	12	12	12	0			
June																																						
July																																						
August																																						
September																																						
October																																						
November																																						
December																																						
<b>Total</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>128</b>	<b>7</b>	<b>0</b>	<b>198</b>	<b>10</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>0</b>			

(\*) Adj / Notes:

Total SC Storage at month end (AF): 0

Total Storage at month end (AF): 210

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

Contract Year: 10/1/20 to: 9/30/21

Contract Entity: **Goleta Water District**  
 Update by COMB 5/31/2021

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	8,297.4	9,322.0
Nov	-	-
Dec	-	-
Jan	-	-
Feb	-	-
Mar	-	-
Apr	-	-
May	-	-
Jun	-	-
Jul	-	-
Aug	-	-
Sep	-	-
Total	8,297.4	9,322.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
735.9	272.2	1,008.1	66.3	1,008.1	1,074.4	782.2	292.2	-
670.2	235.5	905.7	33.6	905.7	939.3	693.5	245.8	-
657.0	219.0	876.0	22.8	876.0	898.9	672.7	226.1	-
587.7	120.4	708.1	15.1	708.1	723.2	597.9	125.3	-
551.0	89.7	640.7	20.6	640.7	661.3	564.5	96.8	-
588.8	150.6	739.5	23.7	739.5	763.2	603.6	159.6	-
724.1	241.4	965.4	22.8	965.4	988.3	737.3	250.9	-
754.7	265.2	1,019.9	18.8	1,019.9	1,038.7	764.3	274.4	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
5,269.4	1,593.9	6,863.3	223.8	6,863.3	7,087.2	5,416.0	1,671.1	-

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

Month  
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 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	8,297.4	5,795.0	2,502.4	6,732.0	2,590.0	9,322.0
ID#1 Exch (+25AF)	-	-	-	13.6	11.4	25.0
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Bishop Ranch Exch (+100AF)	-	-	-	100.0	-	100.0
ID#1 Exch (+44AF)	-	-	-	21.6	22.4	44.0
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Month  
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 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	7,223.0	5,012.8	2,210.2	6,745.6	2,601.4	9,347.0
	6,283.7	4,319.3	1,964.5	6,745.6	2,601.4	9,347.0
	5,384.8	3,646.5	1,738.3	6,745.6	2,601.4	9,347.0
	4,661.6	3,048.6	1,613.1	6,745.6	2,601.4	9,347.0
	4,000.3	2,484.1	1,516.2	6,745.6	2,601.4	9,347.0
	3,237.2	1,880.6	1,356.6	6,745.6	2,601.4	9,347.0
	2,248.9	1,143.2	1,105.7	6,845.6	2,601.4	9,447.0
	1,210.2	379.0	831.3	6,867.1	2,623.9	9,491.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 10,701.2



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

Contract Year: 10/1/20 to: 9/30/21

Contract Entity: **City of Santa Barbara**  
 Update by COMB 5/31/2021

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	20,298.1	8,277.0
Nov	-	-
Dec	-	-
Jan	-	-
Feb	-	-
Mar	-	-
Apr	-	-
May	-	-
Jun	-	-
Jul	-	-
Aug	-	-
Sep	-	-
Total	20,298.1	8,277.0

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED			
Acre-feet			Allocation				Allocation			
M & I	Agr	Total	Evap	Used	Total	M & I	-----	M & I	-----	Total
196.1	-	196.1	171.9	196.1	368.0	368.0	-	-	-	-
147.5	-	147.5	98.6	147.5	246.1	246.1	-	-	-	-
268.1	-	268.1	76.4	268.1	344.5	344.5	-	-	-	-
319.4	-	319.4	57.7	319.4	377.1	377.1	-	-	-	-
562.0	-	562.0	88.6	562.0	650.6	650.6	-	-	-	-
724.5	-	724.5	117.2	724.5	841.7	841.7	-	-	-	-
818.0	-	818.0	141.5	818.0	959.5	959.5	-	-	-	-
807.9	-	807.9	174.0	807.9	982.0	982.0	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,843.7	-	3,843.7	925.9	3,843.7	4,769.6	4,769.6	-	-	-	-

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

Month  
 Oct  
 Nov  
 Dec  
 Jan  
 Feb  
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 May  
 Jun  
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 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation	
		M & I	-----	M & I	-----
Begin Bal	20,298.1	20,298.1	-	8,277.0	-
ID#1 Exch (+17AF)	-	-	-	17.0	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
ID#1 Exch (+29AF)	-	-	-	29.0	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

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

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation	
		M & I	-----	M & I	-----
	19,930.1	19,930.1	-	8,294.0	-
	19,684.0	19,684.0	-	8,294.0	-
	19,339.5	19,339.5	-	8,294.0	-
	18,962.4	18,962.4	-	8,294.0	-
	18,311.8	18,311.8	-	8,294.0	-
	17,470.1	17,470.1	-	8,294.0	-
	16,510.5	16,510.5	-	8,294.0	-
	15,528.5	15,528.5	-	8,323.0	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 23,851.5

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

Contract Year: 10/1/20 to: 9/30/21

Contract Entity: **Montecito Water District**  
 Update by COMB 5/31/2021

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	4,015.7	2,651.0
Nov	-	-
Dec	-	-
Jan	-	-
Feb	-	-
Mar	-	-
Apr	-	-
May	-	-
Jun	-	-
Jul	-	-
Aug	-	-
Sep	-	-
Total	4,015.7	2,651.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
226.9	17.7	244.6	33.1	244.6	277.7	250.5	27.2	-
182.9	16.8	199.7	18.1	199.7	217.8	195.5	22.3	-
187.0	18.6	205.6	13.4	205.6	219.0	196.2	22.8	-
140.4	8.8	149.2	9.7	149.2	158.9	146.9	12.0	-
174.9	9.5	184.4	14.5	184.4	198.9	184.5	14.4	-
253.0	16.1	269.1	18.3	269.1	287.5	264.7	22.7	-
346.2	28.0	374.2	20.5	374.2	394.7	358.7	36.0	-
346.9	28.8	375.7	22.4	375.7	398.1	359.4	38.7	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,858.3	144.3	2,002.6	149.9	2,002.6	2,152.5	1,956.3	196.2	-

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

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

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	4,015.7	2,855.8	1,159.9	2,244.0	407.0	2,651.0
ID#1 Exch (+17AF)	-	-	-	9.2	7.8	17.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
ID#1 Exch (+29AF)	-	-	-	14.2	14.8	29.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

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

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	3,738.0	2,605.3	1,132.7	2,253.2	414.8	2,668.0
	3,520.2	2,409.8	1,110.4	2,253.2	414.8	2,668.0
	3,301.2	2,213.6	1,087.5	2,253.2	414.8	2,668.0
	3,142.3	2,066.8	1,075.5	2,253.2	414.8	2,668.0
	2,943.4	1,882.3	1,061.1	2,253.2	414.8	2,668.0
	2,655.9	1,617.6	1,038.3	2,253.2	414.8	2,668.0
	2,261.3	1,258.9	1,002.4	2,253.2	414.8	2,668.0
	1,863.2	899.5	963.7	2,267.4	429.6	2,697.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,560.2

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

Contract Year: 10/1/20 to: 9/30/21

Contract Entity: **Carpinteria Valley Water District**  
**Update by COMB 5/31/2021**

Month	Carryover Balance		Approved Allocation		CARRYOVER WATER			CURRENT YEAR ALLOCATION				
	Prior Yr	Curr Yr	Acre-feet		WATER USE CHARGED			WATER USE CHARGED				
			M & I	Agr	Evap	Used	Total	Allocation		Allocation		Total
Oct	2,410.8	2,813.0	164.1	209.1	18.9	373.3	392.2	173.9	218.3	-	-	-
Nov	-	-	158.3	186.3	9.2	344.7	353.8	163.2	190.6	-	-	-
Dec	-	-	158.5	183.5	5.8	342.1	347.9	161.7	186.2	-	-	-
Jan	-	-	134.8	116.5	3.6	251.2	254.8	136.8	118.0	-	-	-
Feb	-	-	126.9	107.5	4.5	234.4	238.9	129.5	109.4	-	-	-
Mar	-	-	139.3	127.8	4.5	267.2	271.7	141.9	129.7	-	-	-
Apr	-	-	166.3	204.5	3.0	370.8	373.9	168.2	205.7	-	-	-
May	-	-	178.3	196.5	1.0	176.7	177.6	85.0	92.7	94.3	103.9	198.1
Jun	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-
Total	2,410.8	2,813.0	1,226.6	1,331.8	50.5	2,360.3	2,410.8	1,160.1	1,250.7	94.3	103.9	198.1

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	(81.9)	81.9	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	2,410.8	1,242.0	1,168.8	1,400.0	1,413.0	2,813.0
ID#1 Exch (+11AF)	-	-	-	6.0	5.0	11.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
ID#1 Exch (+19AF)	-	-	-	9.3	9.7	19.0
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	2,018.6	1,068.1	950.5	1,406.0	1,418.0	2,824.0
Nov	1,664.8	904.9	759.8	1,406.0	1,418.0	2,824.0
Dec	1,316.9	743.3	573.6	1,406.0	1,418.0	2,824.0
Jan	1,062.1	606.5	455.6	1,406.0	1,418.0	2,824.0
Feb	823.2	477.0	346.2	1,406.0	1,418.0	2,824.0
Mar	551.5	335.0	216.5	1,406.0	1,418.0	2,824.0
Apr	177.6	166.9	10.8	1,406.0	1,418.0	2,824.0
May	0.0	0.0	0.0	1,321.0	1,323.9	2,644.9
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,644.9

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

Contract Year: 10/1/20 to: 9/30/21

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**  
**Update by COMB 5/31/2021**

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	CARRYOVER WATER				CURRENT YEAR ALLOCATION						
			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	1,303.6	2,651.0	1.8	-	1.8	11.1	1.8	12.9	2.1	10.7	-	-	-
Nov	-	-	1.3	-	1.3	6.4	1.3	7.7	1.5	6.2	-	-	-
Dec	-	-	1.5	-	1.5	5.0	1.5	6.5	1.6	4.9	-	-	-
Jan	-	-	0.7	-	0.7	3.8	0.7	4.5	0.8	3.7	-	-	-
Feb	-	-	0.7	-	0.7	6.0	0.7	6.7	0.9	5.9	-	-	-
Mar	-	-	1.4	-	1.4	8.3	1.4	9.6	1.6	8.0	-	-	-
Apr	-	-	2.0	-	2.0	10.4	2.0	12.4	2.3	10.1	-	-	-
May	-	-	1.9	-	1.9	13.4	1.9	15.3	2.3	13.1	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,303.6	2,651.0	11.2	-	11.2	64.5	11.2	75.7	13.1	62.6	-	-	-

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	1,303.6	43.0	1,260.6	935.0	1,716.0	2,651.0
ID#1 Exch (-70AF)	-	-	-	(38.0)	(32.0)	(70.0)
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
ID#1 Exch (-121AF)	-	-	-	(59.3)	(61.7)	(121.0)
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	1.8	1,290.7	40.9	1,249.9	897.0	1,684.0	2,581.0
Nov	1.3	1,283.1	39.4	1,243.7	897.0	1,684.0	2,581.0
Dec	1.5	1,276.6	37.7	1,238.8	897.0	1,684.0	2,581.0
Jan	0.7	1,272.1	37.0	1,235.1	897.0	1,684.0	2,581.0
Feb	0.7	1,265.3	36.1	1,229.2	897.0	1,684.0	2,581.0
Mar	1.4	1,255.7	34.5	1,221.2	897.0	1,684.0	2,581.0
Apr	2.0	1,243.2	32.1	1,211.1	897.0	1,684.0	2,581.0
May	1.9	1,227.9	29.9	1,198.0	837.7	1,622.3	2,460.0
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 3,687.9

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

Contract Year: 10/1/20 to: 9/30/21

Contract Entity: **Santa Barbara Co. Water Agency**  
 Update by COMB 5/31/2021

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet				Allocation			Allocation				
			Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	36,325.6	25,714.0	0.0	1,324.9	499.0	1,823.9	301.4	1,823.9	2,125.3	1,576.8	548.5	-	-	-
Nov	-	-	0.0	1,160.2	438.6	1,598.9	165.8	1,598.9	1,764.7	1,299.8	464.9	-	-	-
Dec	-	-	0.0	1,272.1	421.2	1,693.3	123.4	1,693.3	1,816.7	1,376.7	440.1	-	-	-
Jan	-	-	0.0	1,182.9	245.7	1,428.6	89.9	1,428.6	1,518.5	1,259.5	259.0	-	-	-
Feb	-	-	0.0	1,415.6	206.6	1,622.3	134.1	1,622.3	1,756.4	1,529.9	226.5	-	-	-
Mar	-	-	0.0	1,707.1	294.6	2,001.7	172.0	2,001.7	2,173.7	1,853.6	320.1	-	-	-
Apr	-	-	0.0	2,056.6	473.8	2,530.5	198.3	2,530.5	2,728.8	2,226.0	502.7	-	-	-
May	-	-	0.0	2,089.8	490.4	2,580.2	229.6	2,382.1	2,611.7	2,192.8	418.9	94.3	103.9	198.1
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	36,325.6	25,714.0	0.3	12,209.3	3,069.9	15,279.2	1,414.6	15,081.1	16,495.7	13,315.1	3,180.6	94.3	103.9	198.1

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	(81.9)	81.9	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Begin Bal	Total	Allocation		Allocation		
			M & I	Agr	M & I	Agr	
Oct	-	-	-	-	7.8	(7.8)	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	100.0	-	100.0
May	-	-	-	-	14.8	(14.8)	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Total	Allocation		Allocation		
			M & I	Agr	M & I	Agr	
Oct	1.8	34,200.3	28,657.1	5,543.2	19,595.8	6,118.2	25,714.0
Nov	1.3	32,435.7	27,357.3	5,078.3	19,595.8	6,118.2	25,714.0
Dec	1.5	30,618.9	25,980.6	4,638.3	19,595.8	6,118.2	25,714.0
Jan	0.7	29,100.4	24,721.2	4,379.2	19,595.8	6,118.2	25,714.0
Feb	0.7	27,344.0	23,191.3	4,152.8	19,595.8	6,118.2	25,714.0
Mar	1.4	25,170.4	21,337.7	3,832.7	19,595.8	6,118.2	25,714.0
Apr	2.0	22,441.6	19,111.7	3,329.9	19,695.8	6,118.2	25,814.0
May	1.9	19,829.9	16,836.9	2,993.0	19,616.3	5,999.6	25,615.9
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **45,445.8**

# CACHUMA DAILY OPERATIONS

Month & Year: June 2021  
 Time of Observations: 0830 Evaporation Pan Factor: 82%

Day	Beginning Storage: 112,810			Surface Area	Rainfall		Evaporation		CCWA Inflow	Releases					Computed Inflow	
	Elevation	Storage	Change		inches	acre-feet	inches	acre-feet		Park Diversion	South Coast	Hilton Creek	WR 89-18	Outlet		Spillway
	ft	acre-feet	acre-feet		inches	acre-feet	inches	acre-feet		acre-feet	acre-feet	acre-feet	acre-feet	acre-feet		acre-feet
1	721.89	112,704	(106)	2,125	-	0.240	34.8	-	-	86.6	9.7	-	5.0	-	30.1	
2	721.84	112,597	(107)	2,124	-	0.270	39.2	-	-	80.1	9.6	-	6.0	-	27.9	
3	721.77	112,448	(149)	2,122	-	0.240	34.8	-	-	81.3	9.6	-	7.0	-	(16.3)	
4	721.72	112,341	(107)	2,120	-	0.360	52.2	-	-	78.9	9.4	-	8.0	-	41.5	
5	721.65	112,191	(150)	2,118	-	0.250	36.2	-	-	79.0	9.3	-	8.0	-	(17.5)	
6	721.59	112,064	(127)	2,117	-	0.230	33.3	-	-	79.1	9.2	-	8.0	-	2.6	
7	721.54	111,959	(105)	2,115	-	0.210	30.4	-	-	76.7	9.0	-	8.0	-	19.1	
8	721.47	111,811	(148)	2,114	-	0.230	33.2	-	-	79.3	8.9	-	8.0	-	(18.6)	
9	721.40	111,664	(147)	2,112	-	0.260	37.5	-	-	79.9	9.6	-	8.0	-	(12.0)	
10	721.33	111,517	(147)	2,110	-	0.260	37.5	0.4	-	77.9	9.8	-	7.0	-	(15.2)	
11	721.26	111,369	(148)	2,108	-	0.270	38.9	-	-	79.4	9.7	-	8.0	-	(12.0)	
12	721.21	111,264	(105)	2,107	-	0.260	37.4	-	-	75.5	9.6	-	6.0	-	23.5	
13	721.15	111,137	(127)	2,105	-	0.230	33.1	-	-	80.8	9.6	-	7.0	-	3.5	
14	721.09	110,990	(147)	2,104	-	0.270	38.8	-	-	78.2	9.5	-	8.0	-	(12.5)	
15	721.03	110,885	(105)	2,102	-	0.270	38.8	3.4	-	91.4	9.3	-	8.0	-	39.1	
16	720.97	110,758	(127)	2,101	-	0.280	40.2	6.1	-	98.3	9.0	-	8.0	-	22.4	
17	720.91	110,632	(126)	2,099	-	0.300	43.0	2.8	-	102.6	8.9	-	8.0	-	33.7	
18	720.85	110,506	(126)	2,097	-	0.360	51.6	-	-	84.5	8.8	-	8.0	-	26.9	
19	720.78	110,358	(148)	2,096	-	0.310	44.4	7.5	-	87.7	8.7	-	10.0	-	(4.7)	
20	720.72	110,232	(126)	2,094	-	0.280	40.1	-	-	76.1	8.5	-	11.0	-	9.7	
21	720.65	110,084	(148)	2,092	-	0.280	40.0	-	-	70.4	8.4	-	10.0	-	(19.2)	
22	720.60	109,979	(105)	2,091	-	0.260	37.1	1.6	-	70.7	8.3	-	11.0	-	20.5	
23	720.54	109,855	(124)	2,089	-	0.230	32.8	-	-	70.7	8.2	-	10.0	-	(2.3)	
24																
25																
26																
27																
28																
29																
30																

<b>TOTALS</b>	-2955	-	-	6.150	885.3	-	21.8	-	1,865.1	210.6	-	186.0	-	170.2
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Park Usage  Rain Yr. Total



**Santa Barbara County Parks Division,  
Cachuma Lake Recreation Area  
Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: **May 2021****



<b>Cachuma Lake Recreation Area Launch Data - May 2021</b>		
<b>Vessel Data</b>		
Total Vessels Entering Park	953	
Total Vessels Launched	931	
Total Vessels Quarantined	22	
Returning (Tagged) Boats Launched	663	71%
Kayak/Canoe Launched	268	29%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
<b>Vessel Inspection Data</b>		
Total Vessels Inspected	290	
Boats Inspected	22	
Kayaks/Canoes Inspected	268	
Inspections Passed	290	
Inspections Failed	0	
<b>Quarantine Data</b>		
Total Vessels Quarantined	22	
Quarantined 14 days	*	
Quarantined 30 days	22	
<b>Quarantine Cause</b>		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	7	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	22	
<b>Demographic Data</b>		
Quarantined from infected county	7	
Quarantined from SB County	15	
Quarantined from uninfected co	0	
Quarantined from out of state	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, nor Aquatic Invasive Species of any kind.

Inspection Site: Cachuma Lake, Santa Barbara County, California.

Inspection Date and Time: 2021.05.28; 10 a.m. to 12 p.m. PDT.

Method: 5 Sampling Stations; 30 meters/98.4 linear feet of line.

Surveyors: COSB, Parks Division Staff (Naturalist Rosey Bishop and Assistant Naturalist Kristin Loft).

Lake elevation: Max feet: 753.00, current 722.12.; Max acre-feet: 193,305, current: 113,194;

Current capacity: 58.6%