



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

**Monday, May 22, 2023
1:00 P.M.**

HOW TO OBSERVE THE MEETING

Join by Teleconference or Attend in Person

COMB follows Centers for Disease Control and Prevention (CDC), California Department of Public Health (CDPH) and local public health guidelines with respect to COVID-19 protocols and masking requirements, based on local conditions and needs. COMB will have available masks for use during public meetings.

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

Join via Video Conference

<https://us02web.zoom.us/j/87634334812?pwd=RjZsY3dhU1BLVkl3TTFRSTMxU05rZz09>

Passcode: 024975

Join via Teleconference

US +1 669 900 6833 Webinar ID: 876 3433 4812 Passcode: 024975

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.

In person: Those observing the meeting in person may make comments during designated public comment periods.

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.

THIS PAGE INTENTIONALLY LEFT BLANK

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

Monday, May 22, 2023

1:00 PM

AGENDA

NOTICE: This Meeting shall be conducted in-person and through remote access as authorized and in accordance with Government Code section 54953, AB 361 and AB 2449.

- 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 April 24, 2023 Regular Board Meeting
 - b. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
- 4. VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Oak Tree Committee Meeting – May 17, 2023
- 5. RESOLUTION NO. 779 – 4TH AMENDMENT TO THE 2021-25 INFRASTRUCTURE IMPROVEMENT PLAN (IIP)**
Action: Recommend adoption by motion and roll call vote of the Board
- 6. GENERAL MANAGER REPORT**
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
 - Administration
 - U.S. Bureau of Reclamation
- 7. ENGINEER'S REPORT**
Receive information from the COMB Engineer, including but not limited to the following:
 - Climate Conditions
 - January Storm Disaster Recovery
 - Infrastructure Improvement Projects Update

THIS PAGE INTENTIONALLY LEFT BLANK

8. OPERATIONS DIVISION REPORT

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

- Lake Cachuma Operations
- Operation and Maintenance Activities

9. FISHERIES DIVISION REPORT

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

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

10. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

Action: Receive information, including but not limited to the following, and provide direction to staff if appropriate:

- Maintenance and Monitoring
- End of Program Plan

11. MONTHLY CACHUMA PROJECT REPORTS

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

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

12. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

13. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: 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
- b. [Government Code Section 54956.9(d)(1)]
Potential Litigation: Conference with Legal Counsel

14. RECONVENE INTO OPEN SESSION

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

- 13a. [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
- 13b. Potential Litigation: Conference with Legal Counsel

THIS PAGE INTENTIONALLY LEFT BLANK

15. MEETING SCHEDULE

- **Regular Board Meeting – June 26, 2023 at 1:00 PM**
- **Board Packages available on COMB website www.cachuma-board.org**

16. COMB ADJOURNMENT

NOTICE TO PUBLIC

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

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

Public Comment: Any member of the public may address the Board on any subject within the jurisdiction of the Board. 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.

THIS PAGE INTENTIONALLY LEFT BLANK

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

Monday, April 24, 2023

**1:00 PM
MINUTES**

1. CALL TO ORDER, ROLL CALL

The regular meeting of the Board of Directors was called to order by President Holcombe at 1:02 PM.

Directors Present:

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

General Counsel Present:

William Carter - Musick, Peeler, Garrett, LLP

Staff Present:

Janet Gingras, General Manager	Elijah Papen, Senior Program Analyst
Edward Lyons, Administrative Manager/CFO	Timothy Robinson, Fisheries Division Manager
Shane King, Ops Supervisor/Chief Distrib. Operator	Dorothy Turner, Administrative Assistant II

Others Present:

Dakota Corey, City of Santa Barbara	Matt Young, SBCO Water Agency
Matthew Scudato, SBCO Water Agency	

2. PUBLIC COMMENT

There was no public comment.

3. CONSENT AGENDA

- a. Minutes of March 27, 2023 Regular Board Meeting
- b. Investment of Funds
 - Financial Reports
 - Investment Reports
- c. Review of Paid Claims

Ms. Gingras called the Board's attention to the March 27th Minutes and noted that approval of the Consent Agenda would require two approval motions. She then invited Mr. Lyons to comment on the Financial and Paid Claims reports.

Mr. Lyons reviewed several expenditures of note in the Paid Claims report, including remittances to Reese Water & Land Surveying, Cushman Contracting, Geosyntec and U.S. Bureau of Reclamation. As well, he highlighted the payments for two new COMB vehicles.

Director Hayman provided a motion to approve item 3.a. which was seconded by Director Sneddon. The motion carried with a vote of four in favor and two abstaining.

Ayes: Sneddon, Hayman, Holcombe

Nays:

Absent:

Abstain: Hanson

Director Hanson motioned to approve the remainder of the Consent Agenda. Director Sneddon seconded the motion which passed unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

4. VERBAL REPORTS FROM BOARD COMMITTEES

- Operations Committee Meeting – April 21, 2023

Director Sneddon reported briefly regarding the single item reviewed by the Operations Committee and noted that it will be brought before the Board at the May 12, 2023 Special Budget Workshop Board Meeting.

5. FINANCIAL REVIEW – 3rd QUARTER FISCAL YEAR 2022-23

Mr. Lyons shared his presentation of the third quarter financial review with the Board. He recapped revenues received during the quarter, totaling \$4,585,000. Noting overall alignment to the budget, he provided explanation for any variances as compared to the budgets for both divisions. Mr. Lyons reviewed the status of the Administrative Division's deliverables for the upcoming quarter. He fielded questions and comments from the Board.

6. NORTH AMERICAN LAKE MANAGEMENT SOCIETY (NALMS) - CONFERENCE PRESENTATION

Ms. Gingras introduced Mr. Papen and invited him to share his presentation regarding approaches to water quality testing for harmful algae blooms (HABs). Mr. Papen shared the tools that COMB currently uses to address water quality testing for HABs. He fielded questions and received appreciative comments.

7. CONTRACT AMENDMENT – PHASE II WATER QUALITY AND SEDIMENT MANAGEMENT STUDY

Ms. Gingras asked Mr. Papen to discuss the proposed contract amendment. He first provided some background and reported the unanticipated increase in depth of lake-bottom sediment due to recent storms. This necessitated a revised plan for the collection of longer sediment core samples. The proposal includes allowance for the core samples, radio carbon dating, an added sulfide sensor and increased chemical analysis. Mr. Papen fielded questions from the Board.

Director Sneddon motioned to approve the contract amendment as described and Director Hayman seconded. The motion carried unanimously with a vote of six in favor.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

8. GENERAL MANAGER REPORT

- Administration
- U.S. Bureau of Reclamation
- Accomplishments/Goals by Division

Ms. Gingras presented the General Manager report, advising that the draft budget had been provided to Member Agency technical staff who commented favorably. She referred briefly to the table listing the Contracts Executed by the General Manager over this past quarter. Ms. Gingras commented that the spill at the lake is ongoing, providing approximately 2700 acre feet of surplus water to the Member Agencies. As well, she provided an update on repairs made at Bradbury Dam. Finally, she highlighted the extensive list of COMB staff accomplishments over the past year. Ms. Gingras fielded questions and comments.

9. ENGINEER'S REPORT

- Climate Conditions
- Water Quality
- January Storm Disaster Recovery
- South Coast Conduit Rehabilitation
- Infrastructure Improvement Projects Update

Mr. Papen presented the Engineer's report, noting that this has been one of the wettest years on record and the third highest inflow year of record, with inflow still occurring. Water sampling results indicate that TOC levels are improved. He reported that staff continues to work through the FEMA/CalOES process. The Ortega reservoir cleaning is complete with repairs currently being undertaken. With the completion of the recent AVAR/BO work, Mr. Papen advised that staff was able to report to Reclamation that the Category One recommendation was complete.

10. OPERATIONS DIVISION REPORT

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. King presented the Operations Division report, reiterating that the completion of the Category One recommendation was a huge accomplishment. He reported that staff continues to monitor storm damage and address routine maintenance tasks. He advised that water was being drawn through gate three as testing indicated that depth would provide better water quality. Finally, Mr. King reported that staff had assisted Fisheries Division with oak tree planting at Live Oak Campground.

12. FISHERIES DIVISION REPORT

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

Mr. Robinson presented the Fisheries Division report, first commenting that the lake is above capacity and target flows are above minimums due to the continued release. He reported that there is evidence of late spawning in some tributaries with a potential for a steelhead redd in Salsipuedes Creek. A request for gravel augmentation in Hilton Creek has been submitted with hope that the permits will be forthcoming and supplementation can take place next year. He provided updates on tributary projects and research efforts for grant funding. As well, he discussed valve reconditioning at Bradbury Dam and noted that he will present a poster illustrating the effects of Sulphur on salmonids at the upcoming Salmonid Restoration Federation conference.

13. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree program report, focusing primarily on the replanting of 34 trees at the Live Oak campground. He acknowledged the assistance of Operations staff in the replantings as well as the County's contribution of mulch. Mr. Robinson also noted that the annual tree inventory was nearly complete.

14. MONTHLY CACHUMA PROJECT REPORTS

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

Ms. Gingras reported that surplus water continues to be available to Member Agencies and noted that the reports were otherwise routine.

15. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

As the Oak Tree program enters its wind-down phase, President Holcombe requested a report detailing how staff anticipates that phase will evolve.

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
- b. [Government Code Section 54956.9(d)(1)]
Potential Litigation: Conference with Legal Counsel

The Board adjourned to Closed Session at 2:51 PM.

18. [CLOSED SESSION]: ANNUAL PERFORMANCE REVIEW

- a. [Government Code Section 54957(b)(1)] Title: General Manager

19. [CLOSED SESSION]: CONFERENCE WITH LABOR NEGOTIATORS

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

20. RECONVENE INTO OPEN SESSION

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

- 15a. [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
- 15b. Potential Litigation: Conference with Legal Counsel
- 16a. Annual Performance Review – General Manager
- 17a. Conference with Labor Negotiators

The Board reconvened into open session at 4:15 PM. There was no reportable action for items 15a., 15b., and 16a. With respect to item 17a., the Board President was directed to negotiate and speak with the General Manager regarding the proposed labor agreement.

21. MODIFICATION OF GENERAL MANAGER’S COMPENSATION

President Holcombe advised Ms. Gingras that her employment evaluation ratings were all outstanding. The Board proposed a 4.56% merit increase to the GM's contract, effective 4-1-2023, along with the annual COLA adjustment that is received by COMB staff.

Director Hanson motioned to approve the proposed General Manager’s compensation modification, followed by a second from Director Sneddon. The motion carried unanimously with a vote of six in favor. Ms. Gingras thanked the Board.

Ayes: Sneddon, Hayman, Hanson, Holcombe

Nays:

Absent:

Abstain:

22. MEETING SCHEDULE

- **Regular Board Meeting – May 22, 2023 at 1:00 PM**
- **Board Packages available on COMB website www.cachuma-board.org**

Ms. Gingras added a reminder for the Special Budget Workshop Board Meeting scheduled for May 12, 2023 at 11:00 AM.

24. COMB ADJOURNMENT

There being no further business, the meeting was adjourned at 4:19 PM.

Respectfully submitted,

Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

APPROVED:

Polly Holcombe, President of the Board

Cachuma Operation & Maintenance Board
Statement of Net Position
As of April 30, 2023
UNAUDITED

April 30, 2023

ASSETS

Current Assets

Checking/Savings

Trust Funds

1210 · Warren Act Trust Fund

323,540.32

1220 · Renewal Fund

26,845.10

Total Trust Funds

350,385.42

1050 · General Fund

600,318.08

1100 · Revolving Fund

133,788.68

Total Checking/Savings

1,084,492.18

Accounts Receivable

1301 · Accounts Receivable

1,570.00

Total Accounts Receivable

1,570.00

Other Current Assets

1010 · Petty Cash

500.00

1200 · LAIF

1,931,059.01

1303 · Bradbury SOD Act Assessments Receivable

220,819.00

1304 · Lauro Dam SOD Assessments Receivable

33,776.14

1305 · Accrued Interest Receivable

2,152.92

1400 · Prepaid Insurance

11,512.72

1900 · Deposits

5,868.34

Total Other Current Assets

2,205,688.13

Total Current Assets

3,291,750.31

Fixed Assets

1500 · Vehicles

514,898.60

1505 · Office Furniture & Equipment

258,022.85

1510 · Mobile Offices

424,910.38

1515 · Field Equipment

546,703.62

1525 · Paving

38,351.00

1530 · Construction in Progress

258,766.83

1550 · Accumulated Depreciation

(1,084,071.34)

Total Fixed Assets

957,581.94

Other Assets

1910 · Long Term Bradbury SOD Act Assessments Receivable

3,836,553.07

1920 · Long Term Lauro SOD Act Assessments Receivable

705,536.76

1922 · Deferred Outflow of Resources (GASB 68)

479,670.00

1923 · Deferred Outflow (GASB 75)

761,719.00

Total Other Assets

5,783,478.83

TOTAL ASSETS

10,032,811.08

Cachuma Operation & Maintenance Board
Statement of Net Position
As of April 30, 2023
UNAUDITED

April 30, 2023

LIABILITIES & NET POSITION

Liabilities

Current Liabilities

Accounts Payable

2200 · Accounts Payable	52,530.48
-------------------------	-----------

Total Accounts Payable	52,530.48
------------------------	-----------

Other Current Liabilities

2505 · Accrued Wages	26,770.37
----------------------	-----------

2550 · Vacation/Sick	223,146.58
----------------------	------------

2561 · Bradbury Dam SOD Act	220,818.99
-----------------------------	------------

2563 · Lauro Dam SOD Act	33,776.14
--------------------------	-----------

2565 · Accrued Interest SOD Act	40,842.00
---------------------------------	-----------

2590 · Deferred Revenue	350,385.42
-------------------------	------------

Total Other Current Liabilities	895,739.50
---------------------------------	------------

Total Current Liabilities	948,269.98
---------------------------	------------

Long Term Liabilities

2602 · Long Term SOD Act Liability-Bradbury	3,836,543.07
---	--------------

2603 · Long Term SOD Act Liability - Lauro	705,536.76
--	------------

2604 · OPEB Long Term Liability	3,357,104.00
---------------------------------	--------------

2610 · Net Pension Liability (GASB 68)	1,162,437.00
--	--------------

2611 · Deferred Inflow of Resources (GASB 68)	1,102,745.00
---	--------------

2612 · Deferred Inflow of Resources (GASB 75)	1,140,861.00
---	--------------

Total Long Term Liabilities	11,305,226.83
-----------------------------	---------------

Total Liabilities	12,253,496.81
-------------------	---------------

Net Position

3000 · Opening Balance Net Position	(5,296,580.05)
-------------------------------------	----------------

3901 · Retained Net Assets	1,764,686.65
----------------------------	--------------

Net Surplus / Deficit	1,311,207.67
-----------------------	--------------

Total Net Position	(2,220,685.73)
--------------------	----------------

TOTAL LIABILITIES & NET POSITION	10,032,811.08
----------------------------------	---------------

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures (Unaudited)
 Budget vs. Actuals July 2022 - June 2023

	Fisheries				Operations				TOTAL			
	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget
Revenue												
3000 REVENUE												
3001 • O&M Budget (Qtrly Assessments)	\$ 1,153,196.00	\$ 1,153,196.00	\$ -	100.0%	\$ 4,951,331.00	\$ 4,951,331.00	\$ -	100.0%	\$ 6,104,527.00	\$ 6,104,527.00	\$ -	100.0%
3006 • Warren Act	58,950.40	118,293.00	-59,342.60	49.83%	0.00				58,950.40	118,293.00	-59,342.60	49.83%
3007 • Renewal Fund	28,440.10	155,723.00	-127,282.90	18.26%	0.00				28,440.10	155,723.00	-127,282.90	18.26%
3010 • Interest Income	0.00				23,497.68	0.00	23,497.68	100.0%	23,497.68	0.00	23,497.68	100.0%
3014 • Non-Member Agency Revenue	45,000.00	0.00	45,000.00	100.0%	0.00				45,000.00	0.00	45,000.00	100.0%
3020 • Misc Income	0.00				17,198.17				17,198.17	0.00	17,198.17	100.0%
3021 • Grant Income	2,690.43	0.00	2,690.43	100.0%	442.00	0.00	442.00	100.0%	3,132.43	0.00	3,132.43	100.0%
3035 • Cachuma Project Betterment Fund	100,000.00	90,000.00	10,000.00	111.11%	0.00				100,000.00	90,000.00	10,000.00	111.11%
3044 • DWR Drought Relief Grant	0.00				2,025,000.00	2,250,000.00	-225,000.00	90.0%	2,025,000.00	2,250,000.00	-225,000.00	90.0%
3045 • USBR WaterSmart Grant	0.00				743,950.00	750,000.00	-6,050.00	99.19%	743,950.00	750,000.00	-6,050.00	99.19%
3046 • CVWD Cooperative Agrmnt Funding	0.00				0.00	550,000.00	-550,000.00	0.0%	0.00	550,000.00	-550,000.00	0.0%
Total 3000 REVENUE	\$ 1,388,276.93	\$ 1,517,212.00	\$ (128,935.07)	91.5%	\$ 7,761,418.85	\$ 8,501,331.00	\$ (739,912.15)	91.3%	\$ 9,149,695.78	\$ 10,018,543.00	\$ (868,847.22)	91.33%
Expense												
3100 • LABOR - OPERATIONS	\$ -	\$ -	\$ -	0.0%	\$ 789,583.14	\$ 1,090,525.00	\$ (300,941.86)	72.4%	\$ 789,583.14	\$ 1,090,525.00	\$ (300,941.86)	72.4%
3200 VEH & EQUIPMENT												
3201 • Vehicle/Equip Mtce	0.00				31,074.42	40,000.00	-8,925.58	77.69%	31,074.42	40,000.00	-8,925.58	77.69%
3202 • Fixed Capital	0.00				117,138.31	150,000.00	-32,861.69	78.09%	117,138.31	150,000.00	-32,861.69	78.09%
3203 • Equipment Rental	0.00				2,302.73	5,000.00	-2,697.27	46.06%	2,302.73	5,000.00	-2,697.27	46.06%
3204 • Miscellaneous	0.00				7,042.96	10,000.00	-2,957.04	70.43%	7,042.96	10,000.00	-2,957.04	70.43%
Total 3200 VEH & EQUIPMENT	0.00				157,558.42	205,000.00	-47,441.58	76.86%	157,558.42	205,000.00	-47,441.58	76.86%
3300 • CONTRACT LABOR												
3301 • Conduit, Meter, Valve & Misc	0.00				7,198.93	20,000.00	-12,801.07	36.0%	7,198.93	20,000.00	-12,801.07	36.0%
3302 • Buildings & Roads	0.00				6,681.96	20,000.00	-13,318.04	33.41%	6,681.96	20,000.00	-13,318.04	33.41%
3303 • Reservoirs	0.00				21,186.52	60,000.00	-38,813.48	35.31%	21,186.52	60,000.00	-38,813.48	35.31%
3304 • Engineering, Misc Services	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
Total 3300 • CONTRACT LABOR	0.00				35,067.41	130,000.00	-94,932.59	26.98%	35,067.41	130,000.00	-94,932.59	26.98%
3400 • MATERIALS & SUPPLIES												
3401 • Conduit, Meter, Valve & Misc	0.00				46,107.36	65,000.00	-18,892.64	70.93%	46,107.36	65,000.00	-18,892.64	70.93%
3402 • Buildings & Roads	0.00				693.10	15,000.00	-14,306.90	4.62%	693.10	15,000.00	-14,306.90	4.62%
3403 • Reservoirs	0.00				3,007.11	5,000.00	-1,992.89	60.14%	3,007.11	5,000.00	-1,992.89	60.14%
Total 3400 • MATERIALS & SUPPLIES	0.00				49,807.57	85,000.00	-35,192.43	58.6%	49,807.57	85,000.00	-35,192.43	58.6%
3500 • OTHER EXPENSES												
3501 • Utilities	0.00				5,775.17	7,000.00	-1,224.83	82.5%	5,775.17	7,000.00	-1,224.83	82.5%
3502 • Uniforms	0.00				646.76	5,750.00	-5,103.24	11.25%	646.76	5,750.00	-5,103.24	11.25%
3503 • Communications	0.00				8,753.79	15,800.00	-7,046.21	55.4%	8,753.79	15,800.00	-7,046.21	55.4%
3504 • USA & Other Services	0.00				4,647.60	7,250.00	-2,602.40	64.11%	4,647.60	7,250.00	-2,602.40	64.11%
3505 • Miscellaneous	0.00				8,771.45	12,000.00	-3,228.55	73.1%	8,771.45	12,000.00	-3,228.55	73.1%
3506 • Training	0.00				2,718.93	3,000.00	-281.07	90.63%	2,718.93	3,000.00	-281.07	90.63%
3507 • Permits	0.00				15,622.17	0.00	15,622.17	100.0%	15,622.17	0.00	15,622.17	100.0%
Total 3500 • OTHER EXPENSES	0.00				46,935.87	50,800.00	-3,864.13	92.39%	46,935.87	50,800.00	-3,864.13	92.39%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures (Unaudited)
 Budget vs. Actuals July 2022 - June 2023

	Fisheries				Operations				TOTAL			
	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget
4100 • LABOR - FISHERIES	602,899.31	785,564.00	-182,664.69	76.75%	0.00				602,899.31	785,564.00	-182,664.69	76.75%
4200 • VEHICLES & EQUIP - FISHERIES												
4270 • Vehicle/Equip Mtce	20,975.33	30,000.00	-9,024.67	69.92%	0.00				20,975.33	30,000.00	-9,024.67	69.92%
4280 • Fixed Capital	96,508.59	90,000.00	6,508.59	107.23%	0.00				96,508.59	90,000.00	6,508.59	107.23%
4290 • Miscellaneous	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
Total 4200 • VEHICLES & EQUIP - FISHERIES	117,483.92	122,500.00	-5,016.08	95.91%	0.00				117,483.92	122,500.00	-5,016.08	95.91%
4220 • CONTRACT LABOR - FISHERIES												
4221 • Meters & Valves	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
4222 • Fish Projects Maintenance	5,080.41	11,100.00	-6,019.59	45.77%	0.00				5,080.41	11,100.00	-6,019.59	45.77%
Total 4220 • CONTRACT LABOR - FISHERIES	5,080.41	14,100.00	-9,019.59	36.03%	0.00				5,080.41	14,100.00	-9,019.59	36.03%
4300 • MATERIALS/SUPPLIES - FISHERIES												
4390 • Miscellaneous	6,024.96	7,000.00	-975.04	86.07%	0.00				6,024.96	7,000.00	-975.04	86.07%
Total 4300 • MATERIALS/SUPPLIES - FISHERIES	6,024.96	7,000.00	-975.04	86.07%	0.00				6,024.96	7,000.00	-975.04	86.07%
4500 • OTHER EXPENSES - FISHERIES												
4502 • Uniforms	1,360.20	5,000.00	-3,639.80	27.2%	0.00				1,360.20	5,000.00	-3,639.80	27.2%
Total 4500 • OTHER EXPENSES - FISHERIES	1,360.20	5,000.00	-3,639.80	27.2%	0.00				1,360.20	5,000.00	-3,639.80	27.2%
4999 • GENERAL & ADMINISTRATIVE												
5000 • Director Fees	0.00				5,133.70	12,400.00	-7,266.30	41.4%	5,133.70	12,400.00	-7,266.30	41.4%
5001 • Director Mileage	0.00				87.12	600.00	-512.88	14.52%	87.12	600.00	-512.88	14.52%
5100 • Legal	0.00				61,363.58	75,000.00	-13,636.42	81.82%	61,363.58	75,000.00	-13,636.42	81.82%
5101 • Audit	0.00				15,271.76	22,750.00	-7,478.24	67.13%	15,271.76	22,750.00	-7,478.24	67.13%
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				38,021.94	33,326.00	4,695.94	114.09%	38,021.94	33,326.00	4,695.94	114.09%
5310 • Postage/Office Exp	0.00				5,739.55	6,000.00	-260.45	95.66%	5,739.55	6,000.00	-260.45	95.66%
5311 • Office Equip/Leases	0.00				5,866.28	13,440.00	-7,573.72	43.65%	5,866.28	13,440.00	-7,573.72	43.65%
5312 • Misc Admin Expenses	0.00				11,464.60	14,000.00	-2,535.40	81.89%	11,464.60	14,000.00	-2,535.40	81.89%
5313 • Communications	0.00				7,074.59	9,500.00	-2,425.41	74.47%	7,074.59	9,500.00	-2,425.41	74.47%
5314 • Utilities	0.00				7,653.47	9,737.00	-2,083.53	78.6%	7,653.47	9,737.00	-2,083.53	78.6%
5315 • Membership Dues	0.00				11,717.70	11,450.00	267.70	102.34%	11,717.70	11,450.00	267.70	102.34%
5316 • Admin Fixed Assets	0.00				3,551.83	8,000.00	-4,448.17	44.4%	3,551.83	8,000.00	-4,448.17	44.4%
5318 • Computer Consultant	0.00				16,454.68	25,000.00	-8,545.32	65.82%	16,454.68	25,000.00	-8,545.32	65.82%
5325 • Emp Training/Subscriptions	0.00				1,405.25	2,000.00	-594.75	70.26%	1,405.25	2,000.00	-594.75	70.26%
5330 • Admin Travel	0.00				1,655.48	2,000.00	-344.52	82.77%	1,655.48	2,000.00	-344.52	82.77%
5331 • Public Information	0.00				2,048.76	3,500.00	-1,451.24	58.54%	2,048.76	3,500.00	-1,451.24	58.54%
Total 4999 • GENERAL & ADMINISTRATIVE	0.00				194,510.29	253,703.00	-59,192.71	76.67%	194,510.29	253,703.00	-59,192.71	76.67%
5299 • ADMIN LABOR	0.00				453,647.38	631,303.00	-177,655.62	71.86%	453,647.38	631,303.00	-177,655.62	71.86%
5400 • GENERAL & ADMIN - FISHERIES												
5407 • Legal - FD	6,808.00	25,000.00	-18,192.00	27.23%	0.00				6,808.00	25,000.00	-18,192.00	27.23%
5410 • Postage / Office Supplies	3,124.31	4,000.00	-875.69	78.11%	0.00				3,124.31	4,000.00	-875.69	78.11%
5411 • Office Equipment / Leases	3,086.69	8,533.00	-5,446.31	36.17%	0.00				3,086.69	8,533.00	-5,446.31	36.17%
5412 • Misc. Admin Expense	4,201.13	7,500.00	-3,298.87	56.02%	0.00				4,201.13	7,500.00	-3,298.87	56.02%
5413 • Communications	3,809.40	4,455.00	-645.60	85.51%	0.00				3,809.40	4,455.00	-645.60	85.51%
5414 • Utilities	4,121.11	5,243.00	-1,121.89	78.6%	0.00				4,121.11	5,243.00	-1,121.89	78.6%
5415 • Membership Dues	6,547.30	7,200.00	-652.70	90.94%	0.00				6,547.30	7,200.00	-652.70	90.94%
5416 • Admin Fixed Assets	1,912.53	3,000.00	-1,087.47	63.75%	0.00				1,912.53	3,000.00	-1,087.47	63.75%
5418 • Computer Consultant	8,860.21	15,000.00	-6,139.79	59.07%	0.00				8,860.21	15,000.00	-6,139.79	59.07%
5425 • Employee Education/Subscription	874.75	2,500.00	-1,625.25	34.99%	0.00				874.75	2,500.00	-1,625.25	34.99%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures (Unaudited)
 Budget vs. Actuals July 2022 - June 2023

	Fisheries				Operations				TOTAL			
	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Apr 23	Budget	\$ Over Budget	% of Budget
5426 • Director Fees	2,764.30	6,700.00	-3,935.70	41.26%	0.00				2,764.30	6,700.00	-3,935.70	41.26%
5427 • Director Mileage	46.90	300.00	-253.10	15.63%	0.00				46.90	300.00	-253.10	15.63%
5430 • Travel	3,171.57	2,500.00	671.57	126.86%	0.00				3,171.57	2,500.00	671.57	126.86%
5431 • Public Information	1,103.18	1,500.00	-396.82	73.55%	0.00				1,103.18	1,500.00	-396.82	73.55%
5441 • Audit	8,223.24	12,250.00	-4,026.76	67.13%	0.00				8,223.24	12,250.00	-4,026.76	67.13%
5443 • Liab & Property Ins	20,473.34	17,745.00	2,728.34	115.38%	0.00				20,473.34	17,745.00	2,728.34	115.38%
Total 5400 • GENERAL & ADMIN - FISHERIES	79,127.96	123,426.00	-44,298.04	64.11%	0.00				79,127.96	123,426.00	-44,298.04	64.11%
5499 • ADMIN LABOR-FISHERIES	186,604.58	274,622.00	-88,017.42	67.95%	0.00				186,604.58	274,622.00	-88,017.42	67.95%
5510 • Integrated Reg. Water Mgt Plan	0.00				744.03	5,000.00	-4,255.97	14.88%	744.03	5,000.00	-4,255.97	14.88%
6199 • SPECIAL PROJECTS												
6097 • GIS and Mapping	0.00				17,137.96	10,000.00	7,137.96	171.38%	17,137.96	10,000.00	7,137.96	171.38%
6105 • ROW Management Program	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6110 • SCADA Improvements & Support	0.00				3,968.65	35,000.00	-31,031.35	11.34%	3,968.65	35,000.00	-31,031.35	11.34%
6115 • COMB Blding Improvemnts & Maint	0.00				21,974.56	45,000.00	-23,025.44	48.83%	21,974.56	45,000.00	-23,025.44	48.83%
6125 • 2023 Winter Storm Repairs	0.00				25,946.20	0.00	25,946.20	100.0%	25,946.20	0.00	25,946.20	100.0%
6138 • Cachuma Watershed Mgmt Study	0.00				16,889.93	50,000.00	-33,110.07	33.78%	16,889.93	50,000.00	-33,110.07	33.78%
Total 6199 • SPECIAL PROJECTS	0.00				85,917.30	160,000.00	-74,082.70	53.7%	85,917.30	160,000.00	-74,082.70	53.7%
6000 • INFRASTRUCTURE IMPROVEMENT PROJ												
6096 • SCC Structure Rehabilitation	0.00				391,962.65	440,000.00	-48,037.35	89.08%	391,962.65	440,000.00	-48,037.35	89.08%
6120 • Lake Cachuma Secured Pipeline	0.00				4,474,069.95	4,400,000.00	74,069.95	101.68%	4,474,069.95	4,400,000.00	74,069.95	101.68%
6136 • SCC Isolation Valve Evaluation	0.00				46,255.50	500,000.00	-453,744.50	9.25%	46,255.50	500,000.00	-453,744.50	9.25%
6137 • SCC Lower Reach Lateral Structu	0.00				0.00	550,000.00	-550,000.00	0.0%	0.00	550,000.00	-550,000.00	0.0%
Total 6000 • INFRASTRUCTURE IMPROVEMENT PROJ	0.00				4,912,288.10	5,890,000.00	-977,711.90	83.4%	4,912,288.10	5,890,000.00	-977,711.90	83.4%
6200 • PROGRAM SUPPORT SERVICES												
6201 • FMP Implementation	2,497.10	42,000.00	-39,502.90	5.95%	0.00				2,497.10	42,000.00	-39,502.90	5.95%
6202 • GIS and Mapping	11,518.51	10,000.00	1,518.51	115.19%	0.00				11,518.51	10,000.00	1,518.51	115.19%
6205 • USGS Stream Gauge Program	82,975.00	105,000.00	-22,025.00	79.02%	0.00				82,975.00	105,000.00	-22,025.00	79.02%
6225 • 2023 Winter Storm Repairs	9,766.97	0.00	9,766.97	100.0%	0.00				9,766.97	0.00	9,766.97	100.0%
Total 6200 • PROGRAM SUPPORT SERVICES	106,757.58	157,000.00	-50,242.42	68.0%	0.00				106,757.58	157,000.00	-50,242.42	68.0%
6300 • HABITAT IMPROVEMENT PROJECTS												
6207 • Oak Tree Restoration Program	2,731.85	18,000.00	-15,268.15	15.18%	0.00				2,731.85	18,000.00	-15,268.15	15.18%
6303 • Tributary Projects Support	3,219.00	10,000.00	-6,781.00	32.19%	0.00				3,219.00	10,000.00	-6,781.00	32.19%
Total 6300 • HABITAT IMPROVEMENT PROJECTS	5,950.85	28,000.00	-22,049.15	21.25%	0.00				5,950.85	28,000.00	-22,049.15	21.25%
Total Expense	\$ 1,111,289.77	\$ 1,517,212.00	\$ (405,922.23)	73.25%	\$ 6,726,059.51	\$ 8,501,331.00	\$ (1,775,271.49)	79.12%	\$ 7,837,349.28	\$ 10,018,543.00	\$ (2,181,193.72)	78.23%
Net Surplus / Deficit	\$ 276,987.16	\$ -	\$ 276,987.16	100.0%	\$ 1,035,359.34	\$ -	\$ 1,035,359.34	100.0%	\$ 1,312,346.50	\$ -	\$ 1,312,346.50	100.0%

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2023
Submitted by:	Janet Gingras

SUBJECT: Investment Report – April 30, 2023

RECOMMENDATION

The Board of Directors receive and file the Cachuma Operation & Maintenance Board Investment Report as of April 30, 2023.

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 April 2023, is reported at 2.87%.

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

Table 1			
Unrestricted Reserve Funds			
Local Agency Investment Fund (LAIF)			
	3/31/2023	\$	523,791.68
(+) Deposits/Credits			1,407,267.33
(-) Checks/Withdrawals			-
Statement Balance	4/30/2023	\$	1,931,059.01

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	3/31/2023	\$	41,122.33
(+) Deposits/Credits			-
(-) Checks/Withdrawals			(14,277.23)
Statement Balance	4/30/2023	\$	26,845.10
American Riviera Bank			
Warren Act Trust Fund			
Previous Balance	3/31/2023	\$	328,658.66
(+) Deposits/Credits			989.00
(-) Checks/Withdrawals			(6,107.34)
Statement Balance	4/30/2023	\$	323,540.32

STATEMENT

The above statement of investment activity for the month of April 2023, 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.



 Secretary

Cachuma Operation & Maintenance Board

**Paid Claims
As of April 30, 2023**

Date	Num	Name	Memo	Amount
1050 · General Fund				
04/13/2023	30026	ACWA-Joint Powers Insurance Authority	Workers Compensation Program 01/01/2023-03/31/2023	-8,433.72
04/13/2023	30027	Aqua-Flo Supply	Supplies (Ops)	-781.27
04/13/2023	30028	Association of Ca Water Agencies/JPIA	May 2023 Health Benefits Premium	-28,631.76
04/13/2023	30029	Big Brand Tire Company	2008 Ford Explorer - Replace Tires	-1,514.78
04/13/2023	30030	Carpinteria Valley Lumber Company	Supplies (Ops)	-26.11
04/13/2023	30031	City of Santa-Barbara	Trash & Recycling March 2023	-325.79
04/13/2023	30032	Coastal Copy, LP	Copier Maintenance - Kyocera Taskalfas 3253ci & 6054ci	-238.42
04/13/2023	30033	Cox Communications Santa Barbara	Business Internet April 2023	-195.44
04/13/2023	30034	Cushman Contracting Corp.	SCC Structure Rehab - Schedule F1 AVAR/Blow-Off	-355,544.00
04/13/2023	30035	Cushman Contracting Corp.	2023 Winter Storm Emergency Repairs - Intake Tower Debris Removal & Boom Repair	-6,422.00
04/13/2023	30036	Dept of Fish and Wildlife	Lake Cachuma California Natural Diversity Database Fee	-25.00
04/13/2023	30037	ECHO Communications	Message Service April 2023	-89.30
04/13/2023	30038	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Sampling	-1,810.00
04/13/2023	30039	Federal Express	Shipping (Ops & Fisheries)	-107.14
04/13/2023	30040	FGL Environmental	SCC Structure Rehab - Bacteria Analysis	-99.00
04/13/2023	30041	Flowers & Associates, Inc.	2023 Winter Storm Emergency Repairs - Engineering Services	-714.00
04/13/2023	30042	Geosyntec Consultants	Lake Cachuma Water Quality & Sediment Study - Professional Services	-6,021.38
04/13/2023	30043	HDR Engineering, Inc.	FMP Implementation & Tributary Support - Engineering Services	-7,458.41
04/13/2023	30044	Home Depot Credit Services	Supplies (Ops)	-1,075.51
04/13/2023	30045	Ian's Tire & Auto Repair	2015 Ford F-150 - Replace Front Tires	-549.76
04/13/2023	30046	Impulse Advanced Communications	Phone Service - Main Office	-881.85
04/13/2023	30047	Integra Clear Co	Water Treatment Supplies (Ops)	-3,123.73
04/13/2023	30048	MarBorg Industries	Portable Facilities - Outlying Stations	-423.76
04/13/2023	30049	O'Reilly Automotive, Inc.	Automotive Supplies (Ops)	-73.85
04/13/2023	30050	Pacific Coast Jiffy Lube	2008 Ford Explorer - Routine Maintenance	-154.30
04/13/2023	30051	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 3/17/23 & 3/31/23	-223.60
04/13/2023	30052	Santa Barbara Police Department	Annual Alarm Registration Fee	-40.00
04/13/2023	30053	SAS Institute, Inc.	GIS & Mapping - JMP Software Renewal 5/31/23 - 5/30/24	-1,200.00
04/13/2023	30054	SB Home Improvement Center	Supplies (Ops)	-174.04
04/13/2023	30055	Southern California Edison	Electricity - Main Office & Outlying Stations	-1,283.91
04/13/2023	30056	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-193.75
04/13/2023	30057	Wells Fargo Vendor Fin Serv	Copier Lease Kyocera Taskalfa 6054ci	-303.41
04/13/2023	30058	WEX Fleet Universal	Fleet Fuel March 2023	-3,295.89
04/13/2023	30059	Zac Gonzalez Landscaping & Tree Care	Landscape Maintenance March 2023	-480.00
04/13/2023	30060	ZWorld GIS	GIS & Mapping Projects - Aerial Imagery Services	-5,500.00
04/13/2023	30061	Santa Barbara News Press	Publication of Adopted Ordinance No. 4	-210.00
04/21/2023	30062	Agri-Turf Supplies, Inc.	Oak Tree Program - Tree Repair & Maintenance	-908.13
04/21/2023	30063	American Riviera Bank - Card Service	Website, Acrobat, Owl Conference Cameras, Supplies	-2,789.22
04/21/2023	30064	City of Santa Barbara-Central Stores	Personal Protective Equipment (Ops)	-183.68
04/21/2023	30065	Eagar, Inc.	Trapping Supplies (Fisheries)	-491.45
04/21/2023	30066	Forestry Suppliers, Inc.	Fisheries Supplies	-236.25
04/21/2023	30067	LoopUp, LLC	Conference Calls March 2023	-26.62
04/21/2023	30068	Manzanita Nursery	Oak Tree Restoration Project - Seedlings	-1,077.50
04/21/2023	30069	Rain for Rent Santa Paula	Ortega Reservoir Cleaning - Equipment Rental	-2,302.73
04/21/2023	30070	Rayne of Santa Barbara Inc	April RO Rental	-33.00
04/21/2023	30071	Securitas Electronic Security	Security System Monitoring	-159.00
04/21/2023	30072	Smardan-Hatcher Co.	Plumbing Supplies (Ops)	-449.95
04/21/2023	30073	Sparkletts	Operations Safety	-64.92
04/21/2023	30074	Stewart's & Selzer Plumbing	De-Rooting Services 2375 Foothill	-310.00
04/21/2023	30075	The Gas Company	Natural Gas - Main Office	-30.49
04/21/2023	30076	Turenchalk Network Services, Inc.	Network Support March 2023 (Ops & Fisheries)	-3,203.80
04/21/2023	30077	Verizon Wireless	Cellular Service - Phones, iPads, Modems	-652.39
Total 1050 · General Fund				<u>-450,544.01</u>
TOTAL				<u>-450,544.01</u>

APPROVALS

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

Lake Cachuma Oak Tree Committee Meeting

held at

**3301 Laurel Canyon Road
Santa Barbara CA 93105**

Wednesday, May 17, 2023

11:30 AM

AGENDA

Chair: Director Hayman

Alternate

Member: Director Hanson

NOTICE: This Meeting shall be conducted in-person and through remote access as authorized and in accordance with Government Code section 54953, AB 361 and AB 2449.

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. Lake Cachuma Oak Tree Restoration Program – Current Status / Draft End of Program Plan (*for information and possible recommendation*)
4. COMB Water Truck Repairs (*for information*)
5. Adjournment

NOTICE TO THE PUBLIC

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

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

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

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2023
Submitted by:	Joel Degner / Elijah Papen
Approved by:	Janet Gingras

SUBJECT: Resolution No. 779 - 4th Amendment to the 2021-2025 Infrastructure Improvement Plan (IIP)

RECOMMENDATION:

The Board of Directors receive information on the 4th amendment to the COMB 2021-2025 Five-Year Infrastructure Improvement Plan which informs and supports the Draft Fiscal Year 2023-24 COMB Operating Budget, and adopt Resolution No. 779 approving the plan.

SUMMARY:

Staff, in coordination with COMB Member Agency technical staff, developed a Five-Year Infrastructure Improvement Plan (IIP) for purposes of planning and forecasting essential capital improvements within the South Coast Conduit system. The 1st Amendment to the Plan was approved by the Board of Directors in April 2021 (Resolution No. 724) and shifted projects to later years in preparation for extended drought conditions. In addition, construction costs for the Lake Cachuma Emergency Pumping Facility Secured Pipeline Project had incrementally increased from original estimates based on completed engineering designs and bid solicitation. A shift in schedule for completion of rehabilitation projects had also impacted the matrix due to limitations for COMB to perform a shutdown to address previously planned rehabilitation work in the lower reach of the system.

In November 2021, information from Carpinteria Valley Water District (CVWD) on their intent to offset COMB costs (through a cooperative agreement) associated with the lower reach lateral project (alternative project) resulted in revising the IIP a second time. The 2nd amended COMB 2021-2025 Five-Year IIP budget matrix was amended and approved by the Board of Directors through Resolution No. 736 in November 2021.

The 3rd amendment, approved by the Board in May 2022, was necessary due to inflationary cost increases associated with the construction of the Secured Pipeline Project. Also included in the 3rd amendment budget matrix was the funding award for the Secured Pipeline Project received from the Department of Water Resources (DWR) Urban and Multi-benefit Drought Relief Grant Program in the amount of \$2,250,000.

The 4th amendment reflects the elimination of the Emergency Pumping Facility Project due to recharged lake conditions. As a result, previous projects that were pushed to future years are now reflected in Fiscal Year 2024-25. The five-year budget matrix displays the variances with an overall decrease of \$1.6m as compared to the previous amended plan.

The following two tables display the costs associated with the adopted 3rd amendment to the 2021-2025 IIP planning matrix and the proposed 4th amendment to the 2021-2025 IIP planning matrix.

Adopted 3rd Amendment IIP (2021 - 2025)										
	Project ID	Project Name	2020-21	2021-22	2022-23	2023-24	2024-25	5-yr Total	Variances	
Priority	1	2012-1-A	SCC AVAR Valve Replacement/Relocation	\$ 90,000	\$ -	\$ 220,000	\$ -	\$ -	\$ 310,000	\$ (10,000)
	2	2004-2-I	SCC Blow-Off Nozzle/Valve Replacement	\$ 90,000	\$ -	\$ 220,000	\$ -	\$ -	\$ 310,000	\$ (100,000)
			Ortega Emergency Repair		\$ 264,751				\$ 264,751	\$ 264,751
			Carp Resv. / Toro Cyn rehab / Emergency repairs		\$ 125,249				\$ 125,249	\$ 125,249
		2004-2-B	Rehabilitate Lateral Structures (LIVR)	\$ 85,000	\$ 450,000	\$ 550,000	\$ -	\$ -	\$ 1,085,000	\$ -
		2014-C-61	SCADA Upgrades	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ 300,000	\$ -
		2019-C-1	Lake Cachuma EPF Pump Station (if required)	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 1,250,000	\$ 3,250,000	\$ 175,000
	3	2018-C-1	Lake Cachuma EPF Secured Pipeline Project	\$ 152,000	\$ 152,000	\$ 4,400,000	\$ -	\$ -	\$ 4,704,000	\$ 1,800,000
		2019-C-2	Modular Office Building Replacement	\$ 175,000	\$ 216,000	\$ -	\$ -	\$ -	\$ 391,000	\$ -
		2018-C-2	SCC In-Line Isolation Valves	\$ -	\$ 400,000	\$ 500,000		\$ -	\$ 900,000	\$ -
		2019-C-3	Lake Cachuma Water Quality and Evaporation Buoy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2013-C-1	North Portal Jet Flow Control Valve Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2019-C-4	Critical Control Valve Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2013-C-1	Meter Replacement Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	4	2007-2-B	Sheffield Tunnel Evaluation and Repair	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2013-2-C	Lauro Reservoir Intake Assessment and Repair	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2016-C-1	North Portal Intake Tower Seismic Assessment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		1999-2-A	Tecolote Tunnel Concrete Deterioration Investigation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			Subtotal	\$ 742,000	\$ 1,758,000	\$ 5,890,000	\$ 2,000,000	\$ 1,250,000	\$ 11,640,000	\$ 2,255,000
			DWR Urban and Multi-benefit Grant Funding			\$ (2,250,000)			\$ (2,250,000)	\$ (2,250,000)
		USBR Grant Funding			\$ (750,000)			\$ (750,000)	\$ -	
		Actual / Proposed CVWD Funding	\$ (40,000)	\$ (450,000)	\$ (550,000)			\$ (1,040,000)	\$ -	
		Operating Budget Total	\$ 702,000	\$ 1,308,000	\$ 2,340,000	\$ 2,000,000	\$ 1,250,000	\$ 7,600,000	\$ 5,000	
Proposed 4th Amendment IIP (2021 - 2025)										
	Project ID	Project Name	2020-21	2021-22	2022-23	2023-24	2024-25	5-yr Total	Variances	
Priority	1	2012-1-A	SCC AVAR Valve Replacement/Relocation	\$ 90,000	\$ -	\$ 220,000	\$ 100,000	\$ -	\$ 410,000	\$ 100,000
	2	2004-2-I	SCC Blow-Off Nozzle/Valve Replacement	\$ 90,000	\$ -	\$ 220,000	\$ 100,000	\$ -	\$ 410,000	\$ 100,000
			Ortega Emergency Repair	\$ -	\$ 264,751	\$ -	\$ -	\$ -	\$ 264,751	\$ -
			Carp Resv. / Toro Cyn rehab / Emergency repairs	\$ -	\$ 125,249	\$ -	\$ -	\$ -	\$ 125,249	\$ -
		2004-2-B	Rehabilitate Lateral Structures (LIVR)	\$ 85,000	\$ 450,000	\$ -	\$ 550,000	\$ -	\$ 1,085,000	\$ -
		2014-C-61	SCADA Upgrades	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ 300,000	\$ -
	3	2018-C-1	Lake Cachuma EPF Secured Pipeline Project	\$ 152,000	\$ 152,000	\$ 4,700,000	\$ -	\$ -	\$ 5,004,000	\$ 300,000
		2019-C-2	Modular Office Building Replacement	\$ 175,000	\$ 216,000	\$ -	\$ -	\$ -	\$ 391,000	\$ -
		2018-C-2	SCC In-Line Isolation Valves	\$ -	\$ 400,000	\$ -	\$ 550,000	\$ -	\$ 950,000	\$ 50,000
		2013-C-1	North Portal Jet Flow Control Valve Replacement	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 300,000
		2019-C-4	Critical Control Valve Replacement	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 150,000
		2013-C-1	Meter Replacement Program	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 150,000
		4	2007-2-B	Sheffield Tunnel Evaluation and Repair	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000
	2013-2-C		Lauro Reservoir Intake Assessment and Repair	\$ -	\$ -	\$ -	\$ -	\$ 130,000	\$ 130,000	\$ 130,000
	2016-C-1		North Portal Intake Tower Seismic Assessment	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000
		1999-2-A	Tecolote Tunnel Concrete Deterioration Investigation	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000
			Subtotal	\$ 742,000	\$ 1,758,000	\$ 5,140,000	\$ 1,300,000	\$ 1,030,000	\$ 9,970,000	\$ 1,580,000
			DWR Urban and Multi-benefit Grant Funding			\$ (2,250,000)			\$ (2,250,000)	\$ -
			USBR Grant Funding			\$ (750,000)			\$ (750,000)	\$ -
			Actual / Proposed CVWD Funding	\$ (40,000)	\$ (450,000)	\$ -	\$ (550,000)		\$ (1,040,000)	\$ -
		Operating Budget Total	\$ 702,000	\$ 1,308,000	\$ 2,140,000	\$ 750,000	\$ 1,030,000	\$ 5,930,000	\$ (1,670,000)	

The revised matrix is presented with notable changes including:

Project	Explanation	Change
SCC AVAR/BO Rehab Project	An overall increase in projected costs due to three remaining blowoffs to be rehabilitated and additional upgrades on previously rehabilitated AVAR structures.	\$200,000
Lake Cachuma EPF Pump Station	Elimination of project due to lake conditions.	(\$3,250,000)
Lake Cachuma EPF Secured Pipeline Project	An increase in cost estimates due to inflationary factors.	\$300,000
SCC In-line Isolation Valve	An increase in cost estimates due to inflationary factors.	\$50,000
Various Projects	Previous projects restated into matrix	\$1,030,000
5-Year Net Change		(\$1,670,000)

The 4th amendment to the IIP does not constitute approval for any project not previously approved and authorized by the Board. All projects will be submitted to the appropriate Committee and Board of Directors for approval prior to design and construction.

Project descriptions have not changed since the 2nd amendment to the IIP was approved by the Board of Directors. However, costs have been updated on applicable projects as shown in the attached (Exhibit 1) project description excerpts.

FISCAL IMPACTS:

The 2021-2025 3rd amendment to the IIP adopted by the Board in May 2022 included a net cost of \$7,600,000 over the five-year planning horizon. The proposed revised cost matrix for the 4th amendment totals \$5,930,000 which has decreased by \$1,670,000 for the five-year planning horizon as explained in the table above.

ENVIRONMENTAL COMPLIANCE:

All environmental compliance measures required for each project contained within the IIP will be satisfied prior to project implementation.

COMMITTEE STATUS:

On April 21, 2023, the Operations Committee reviewed the draft proposed 4th Amendment to the COMB 2021-2025 Five-Year Infrastructure Improvement Plan, which informs and supports the Draft Fiscal Year 2023-24 COMB Operating Budget, and forwards the amendment to the Board with a recommendation to adopt Resolution No. 779 approving the plan.

LIST OF EXHIBITS:

- 1) Resolution No. 779
- 2) COMB 2021-2025 Infrastructure Improvement Plan Project Description Excerpts

THIS PAGE INTENTIONALLY LEFT BLANK

RESOLUTION NO. 779

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD
ADOPTING THE FOURTH AMENDMENT TO
THE COMB 2021-2025 INFRASTRUCTURE IMPROVEMENT PLAN**

WHEREAS, the Cachuma Operation & Maintenance Board (“COMB”) is a joint powers authority and public entity, organized and existing in the County of Santa Barbara in accordance with Government Code Section 6500 et seq., and operating pursuant to the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project - Cachuma Operation And Maintenance Board, dated May 23, 1996 (“Amended and Restated Agreement”), as amended by an Amendment to the Amended and Restated Agreement made effective September 16, 2003, and a Second Amendment to the Amended and Restated Agreement made effective November 20, 2018 (collectively the “Joint Powers Agreement”); and

WHEREAS, the Member Agencies of COMB are the Goleta Water District, the City of Santa Barbara, the Montecito Water District, and the Carpinteria Valley Water District; and

WHEREAS, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract with the United States Bureau of Reclamation, including the North Portal Intake Tower, the Tecolote Tunnel, the South Coast Conduit, the Sheffield Tunnel, four regulating reservoirs, flow control valves, meters, instrumentation at control stations, turnouts and appurtenant structures along the entire system; and

WHEREAS, the Five-Year 2021-2025 Infrastructure Improvement Plan (“IIP”), which contemplates certain projects, was initially adopted by the COMB Governing Board in February 2020, then subsequently amended in April 2021 (“First Amendment”), November 2021 (“Second Amendment”) and May 2022 (“Third Amendment”) and;

WHEREAS, each year, in conjunction with preparation of COMB's annual Operating Budget, the Governing Board reviews the upcoming infrastructure needs and related projects for COMB based on current conditions and priorities; and

WHEREAS, more detailed cost/benefit information, including potential funding offsets, is now available for certain infrastructure improvement projects; and

WHEREAS, since the initial adoption of the IIP and adoption of the First, Second and Third Amendments, project budgets and scheduling adjustments are necessary primarily due to recharged lake conditions, continued inflationary pressures, and potential funding offsets; and

WHEREAS, a fourth amendment to the IIP is necessary and will facilitate the decision-making process for allocation of resources to help ensure the delivery of quality, reliable water to the COMB Member Agencies (“Fourth Amendment”); and

WHEREAS, the proposed Fourth Amendment to the IIP is presented to the Governing Board with a recommendation to approve and adopt that amendment.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF COMB AS FOLLOWS:

1. The Governing Board finds and determines that the facts set forth in the above recitals and in the documents referenced herein are true and correct.

2. The Governing Board approves the May 2023 Fourth Amendment to the 2021-2025 Infrastructure Improvement Plan, as set forth in the accompanying staff memorandum and Exhibit 1 of the memorandum.

3. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 22nd day of May 2023, by the following roll call vote:

Ayes:

Nayes:

Absent/Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

APPENDIX A: IIP PROJECT DESCRIPTIONS
Updated April 2023

Background

Combination air vacuum air release valves (AVARs) are located at high points along the pipeline and act to automatically expel air and relieve vacuum accumulation in pipes. If air is not adequately expelled, air pockets can constrict flows. If the vacuum is not relieved, serious damage or collapse of the pipeline can occur. If AVAR vaults become flooded or if a negative pressure is experienced within the pipeline, the AVAR valves could allow contaminated water to enter the pipeline. COMB has upgraded the AVAR valves in the system such that all AVARs for the South Coast Conduit are above grade. The AVAR valve structures consist of a manhole cover, riser pipe, valve, and AVAR valve.



Need

There are twenty-six AVARs on the Lower Reach of the SCC. All AVAR structures have now been rehabilitated as of 2023. The work was completed in March 2023 when the two remaining AVAR valve structures on Highway 192 were rehabilitated. They posed an operational risk and/or did not meet Section 64576 of Titles 17 and 22 California Code of Regulations, which requires “each new air-release, air vacuum, or combination valve, and any such valve installed to replace an existing valve shall be: (a) installed such that its vent opening is above grade.” The consequence of not completing this project could have been major facility failure in multiple locations and potential water contamination. Several AVARs were raised above grade but the valves, risers and manhole covers are original. In planned shutdowns in 2023-2024, the manhole covers and valves will be replaced.

PRIORITY CATEGORY

1. Regulatory or Legal Requirement

ESTIMATED COST

\$410,000

Fiscal Year	Phase	Cost
2020-21	Toro Cyn to Carp HS	\$90,000
2022-23	Toro Cyn to La Mirada	\$220,000
2023-24	La Mirada to Carp Res	\$100,000

Description

Replace and relocate to above ground AVARs, and replace riser pipes in the Lower Reach. Consistent with other AVAR replacements, manhole covers, valves, risers, laterals would be replaced at the same time. The project would require coordination with impacted Member Agencies during the required shutdown of the SCC. For efficiency and to minimize cost, phases of this project will be performed concurrently with similar phases of the South Coast Conduit Blow-Off Nozzle/Valve Replacement. Project implementation will occur over time and during low water demand months to reduce the impact of system shutdown.

This project has been identified by the USBR as a Category 1 recommendation.

Background

Blow-off structures exist on all low points of a water distribution system. The components included in these structures include access-hole covers, blow-off nozzles, a gate valve and blow-off piping. There are a total of sixty-five blow-off structures in South Coast Conduit system.

Need

The existing blow-off components are in need or rehabilitation due to extensive corrosion. The dependability of these components is necessary to allow the system to be dewatered for maintenance and response to an emergency break in the pipe. Blow-off valves and piping have been replaced in the Upper Reach and 23 blow-off nozzles/valves have been replaced in the Lower Reach. Three blow-off nozzles in the Carpinteria area are in need of replacement. The original nozzles and valves are in need of replacement because of corrosion. The consequence of not completing this project could result in a major facility failure in multiple locations and potential risk of water contamination.

Description

The project consists of replacing the man hole covers, blow-off nozzles, gate valves, upper spools, and discharge piping within the Lower Reaches of the SCC. The project would be completed in conjunction with the AVAR valve replacement and relocation project and coordinated with the affected Member Agencies during the required system shutdown. The design for this project is complete.



PRIORITY CATEGORY

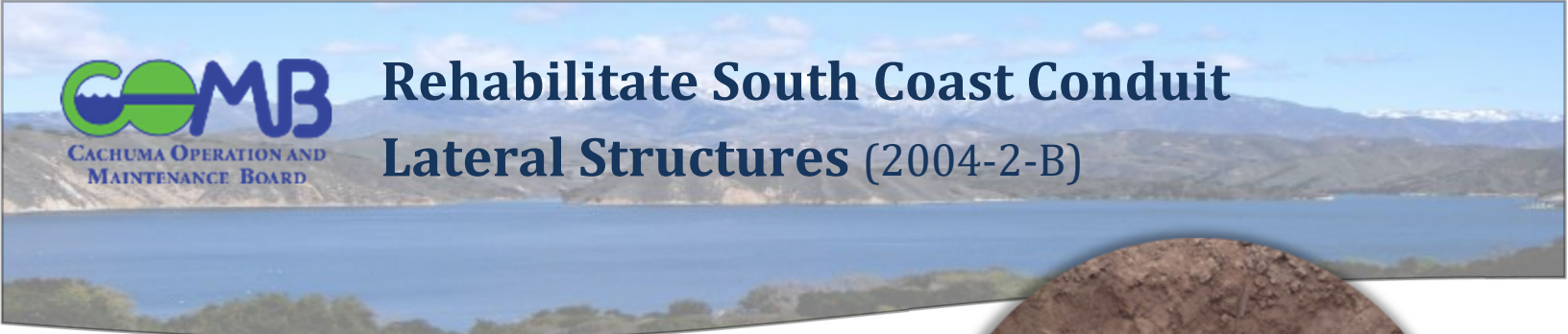
2. Required to Maintain Level of Service

ESTIMATED COST

\$410,000

Fiscal Year	Phase	Cost
2020-21	Toro Cyn to Carp HS	\$90,000
2022-23	Toro Cyn to La Mirada	\$220,000
2023-24	La Mirada to Carp Res	\$100,000

This project has been identified by the USBR as a Category 2 recommendation.



Background

There are 44 lateral connections housed in concrete cylinder structures on the Lower Reach of the South Coast Conduit. The function of these connections is to provide water to sections of the Montecito Water District and Carpinteria Valley Water District. Each connection generally contains two gate valves, a meter, and an air vent component. Most laterals have been abandoned and air gapped in the Upper Reach of the South Coast Conduit with the exception of the Goleta West Conduit.



Need

Twenty-five of the 30 laterals in the Carpinteria service area have reached their maximum life and are in need of rehabilitation. Eighteen of the 25 high-risk laterals will be rehabilitated by CVWD through a cooperative agreement. Nine of the 18 laterals to be repaired by CVWD have been rehabilitated as of March 2023, concluding Phase I of the cooperative agreement. Nine under the agreement (Phase II) still pose an operational risk due to age, corrosion, and unreliable valve operating conditions. The dependability of these valves is necessary to provide reliable water service to customers served in the Carpinteria Reach. The consequence of not completing this project could result in lateral failure/inoperability limiting deliveries to customers served by those laterals or complicating operations if leak-by or a major failure occurred.

Description

This project would replace corroded pipe and inoperable valves and air vents on lateral connections. The project will require shutdowns for the specified turnout distribution supply areas and would be coordinated with the impacted Member Agencies. The project requires retention of engineering and contractor services. Due to each site's differing conditions, engineering would be required for each individual structure. Phase 1 of the cooperative agreement between COMB and CVWD has been completed, with Phase II planned for FY 2023-24.

PRIORITY CATEGORY

2. Required to Maintain Level of Service

ESTIMATED COST

\$1,085,000* (CVWD Funded)

Fiscal Year	Phase	Cost
2020-21	Engineering	\$85,000
2021-22	Construction	\$450,000
2023-24	Construction	\$550,000

*As part of the Cooperative Agreement with CVWD, CVWD would offset in-line isolation valve costs with the costs to rehabilitate the laterals in the Carpinteria Area

This project has been identified by the USBR as a Category 2 recommendation.

Background

The Lake Cachuma Emergency Pumping Facility Secured Pipeline Project has been completed. The North Portal Intake Tower is normally operated as a gravity flow system. However, when the lake level recedes below the lowest gates, water is unable to be transported to the South Coast. Under these conditions, water must be pumped from deeper parts of the lake to the Intake Tower.

Need

Sedimentation has buried the lowest gate (Gate 5) on the North Portal Intake Tower. A pumping system is needed when lake levels recede below the Gate 4 elevation (678'). Without a pipeline and pumping system, Cachuma Project and State Water Project (SWP) water cannot be transported to the South Coast, causing a widespread immediate threat to public health during drought. This project would consist of a pipeline secured to the lake bottom with a connection at Gate 5, and a gravity intake with fish screen at an alternate drafting location (Site 1). Should water quality become poor at the Intake Tower (temp, algae, turbidity, TOC, etc.), the alternative Site 1 intake could also be utilized.

Water quality data collected by COMB over the last two years demonstrates that water temp, TOC, boron, and sulfate are consistently lower at depth. Lower water temperatures are associated with decreased THM formation during treatment and lower boron/sulfate levels will help Member Agencies meet aquifer storage and recovery (ASR) injection requirements.

Description

The project would consist of installation of a 36-inch, 3,600' DR-17 HDPE pipeline secured to the lake bottom with concrete pipe weights. A fish screen installed at the drafting end would allow water deliveries from deeper portions of the lake for better management of delivered water quality. In times of drought, the pipeline would be connected to a pumping system to allow deliveries of water to the Tecolote Tunnel. The preferred elevation to install the pipeline is at 710' or less. The project was successfully installed.



PRIORITY CATEGORY

3. Addresses Critical Deficiency

ESTIMATED COST

\$5,004,000

Fiscal Year	Phase	Cost
2020-21	Env/Eng	\$152,000
2021-22	Env/Eng	\$152,000
2022-23	Construction	\$4,700,000

*USBR Drought Resiliency Grant awarded to COMB in the amount of \$750,000 for this project – DWR Multibenefit Drought Relief Program awarded COMB \$2,250,000 for the project.

Environmental review has been completed and permits have been renewed or obtained

Background

To allow for shutdown repairs and continued water delivery in the event of disruption of service in the South Coast Conduit, additional in-line isolation valves are needed in the South Coast Conduit. One in-line valve has already been successfully installed at La Mirada and Highway 192 as part of the cooperative agreement with CVWD.

Need

Pipeline break due to natural disaster could result in escaping flows. In an emergency scenario such as this, a line valve would divide the conduit, limiting outflow. In addition, several blow-offs and air vacuum air release (AVAR) structures on the South Coast Conduit are in disrepair and need periodic rehabilitation requiring a shutdown of the SCC. A line valve would allow COMB to rehabilitate these important structures with less disruption to customers.

Description

To facilitate shutdowns and repairs of the South Coast Conduit and to minimize service disruption, an in-line isolation valve is required. As part of this project, COMB has successfully installed an in-line isolation valve at La Mirada Drive and Highway 192. The isolation valve allows a section of the South Coast Conduit, which currently serves eleven laterals to be subdivided to two segments. One additional in-line isolation valve would allow the remaining blow-off structures to be rehabilitated in the Carpinteria area. This would allow COMB to complete a Category 2 recommendation from the U.S. Bureau of Reclamation to replace the blow-off valves and piping on the South Coast Conduit.

In exchange for this work, CVWD has proposed to contribute financially towards the rehabilitation of the lower reach SCC laterals. A cooperative agreement between COMB and CVWD is has been developed to facilitate this exchange of work.



PRIORITY CATEGORY

3. Addresses Critical Deficiency

ESTIMATED COST

\$950,000*

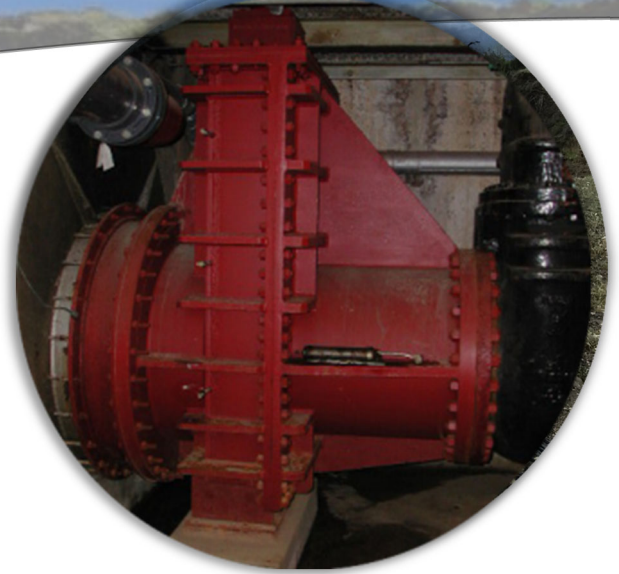
Fiscal Year	Phase	Cost
2021-22	Construction	\$400,000
2023-24	Construction	\$550,000

*CVWD has proposed to offset the line valve costs by performing lateral rehabilitation work.

An environmental/historic preservation review is required for all activities for which FEMA funds are being requested

Background

Located at the base of the Tecolote Tunnel, the Jet Flow Control Valve is the primary control for flow from Lake Cachuma into the South Coast Conduit. The valve is located within the red piping component as pictured to the right. The adjacent gate valve (black) is utilized to shutdown flows from Lake Cachuma. The Jet Flow Control valve was replaced in 1990 and has a useful life of approximately thirty years. As part of this project, COMB would purchase new parts and utilize previously acquired internal components to build a new valve to be installed during a planned shutdown. The current valve, after being removed, would be rebuilt using new components and would be kept on site and used as a redundant valve in case of failure.



Need

The consequence of not completing the project includes using a valve beyond the expected useful life, coupled with a lack of redundancy for one of the most critical flow control valves within the system. Because the North Portal Jet Flow Control Valve controls the flow into the Tecolote Tunnel, failure could prevent or impact water deliveries to the cities of Goleta, Santa Barbara, Montecito, Summerland and Carpinteria. This is a proactive replacement based upon the expected service life at purchase, as the valve in its current state is functioning adequately. Because of the important function of the valve, it is critical that it not be used beyond the manufacturer's recommended service life, and that redundancy exists on site.

PRIORITY CATEGORY

3. Addresses Critical Deficiency

ESTIMATED COST

\$300,000

Fiscal Year	Phase	Cost
2024-25	Installation	\$300,000

Description

This project consists of producing designs and specifications to manufacture a new valve body and to rebuild using new and previously purchased internal components. Once the jet flow valve is ready for installation, a coordinated shutdown would occur using the gate valve. The current jet flow valve would be removed from service and the new valve would be lowered by crane into the lower gallery of the North Portal through the elevator shaft for installation.

This project requires approval from Reclamation.



Background

A majority of the valves located at control stations along the South Coast Conduit are original and were installed in the 1950s. There are over 50 large diameter valves in the system, ranging in size from 24" to 48". Several of these valves are critical for operations, but many of the valves are obsolete and are not utilized for operations. During previous maintenance work and shutdowns, key valves in the system have been characterized as exhibiting excessive leak-by. This program would replace critical valves in the system at key control station locations.



Need

In-line isolation and control valves are needed to properly operate and maintain the system. Valves with excessive leak-by or poor operability impact system operations. The system is operated differently than designed with the installation of Cater Treatment Plant. Many of the system valves are no longer needed for operations. Obsolete valves and piping are potential points of failure and increase maintenance needs. The consequences of not completing this project could include loss of control within control stations and excessive leak-by, which could especially impact operations during repair work requiring pipeline shutdown.

Description

This project would involve the systematic replacement of key control valves in the system with known operational deficiencies. Control station piping would be streamlined to reflect current operations and obsolete valving would be removed from the control stations.

PRIORITY CATEGORY

3. Addresses Critical Deficiency

ESTIMATED COST

\$150,000

Fiscal Year	Phase	Cost
2024-25	Eng/Construction	\$150,000

Changes to the South Coast Conduit system to remove obsolete valves and piping would require Bureau of Reclamation review and approval.



Background

COMB is responsible for accurate water accounting on behalf of the Cachuma Project Member Agencies to the U.S. Bureau of Reclamation on a monthly basis. The process of water accounting entails recording data from twenty-eight meters located along the conveyance system from the North Portal of Lake Cachuma to the Carpinteria Reservoir. In an effort to identify the accuracy of meters within the system, COMB hired Water System’s Optimization (WSO), Inc. to conduct a system meter evaluation and water audit. The results of the water audit indicated that several meters require additional testing and replacement.

Need

COMB’s water meters are critical to the water accounting and system operations. Several meters in the system have reached limited-life cycle phase and are likely in need of replacement in the next five years. Not completing the project could impact system operations and water accounting accuracy and jeopardize compliance with Section 64561 of Titles 17 and 22 California Code of Regulations, which states “each water system shall: (b) meter the quantity of water flow from each source, and record the total monthly production each month.”

Description

COMB operates several electronic mag-meters that are critical to the water accounting and system operations that have reached limited-life cycle phase and are likely in need of replacement in the next five years. COMB operates electronic magmeters at Glen Anne Turnout Meter, Goleta West Meter, Ortega Inflow meter, Ortega Southflow meter, and the Boundary meter which are utilized to manage system operations on a day to day basis and for monthly accounting of water use.



PRIORITY CATEGORY

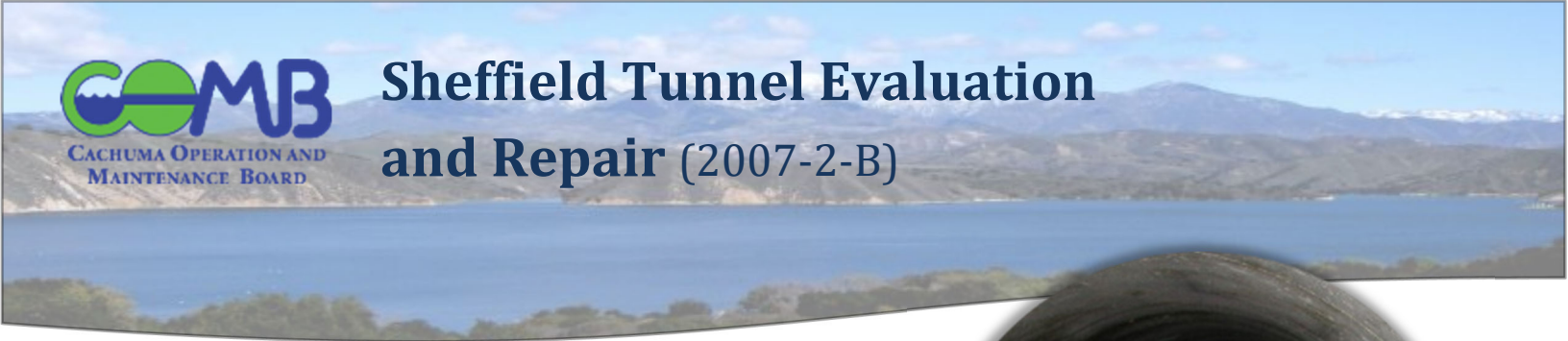
3. Addresses Critical Deficiency

ESTIMATED COST

\$150,000

Fiscal Year	Phase	Cost
2024-25	Construction	\$150,000

No regulatory compliance measures are expected for this project.



Background

The Sheffield Tunnel is a concrete tunnel housing the 30" South Coast Conduit (SCC) that extends 6,100 feet between the Mission Creek area and Parma Park. Within the tunnel, sections of concrete pipe are connected and joined with steel bands and mortar joints to maintain the integrity of the pipe collar connections.

Need

The USBR inspection report of the Sheffield Tunnel identified and recommended remediation of cracked pipe collars and adjoining deterioration of mortar joints and pipe supports. Deterioration potentially compromises the integrity of the tunnel and poses an operational risk. Heavy seepage appears to be a contributing factor to deterioration.

Description

An engineering firm would conduct a condition assessment to determine the structural integrity and reliability of the connecting and support structures of the Sheffield Tunnel. The engineering evaluation will include recommended repairs and determine how to eliminate areas of heavy seepage. It is possible the engineering evaluation could find a lower cost remedy to that recommended by USBR. Upon completion of the evaluation, COMB would retain a qualified contractor to repair the deteriorated mortar joints and pipe supports at locations identified.



PRIORITY CATEGORY

4. Evaluates Potential Critical Deficiency

ESTIMATED COST

\$100,000

Fiscal Year	Phase	Cost
2024-25	Engineering	\$100,000

This project has been identified by the USBR as a Category 2 recommendation.

Background

The Lauro Reservoir intake structure was modified in 1981 by adding a stainless steel circular intake screen connected to a steel pipe which was inserted in the original concrete intake structure. A 1/2 inch thick steel circular bearing plate was installed on top of the existing concrete intake structure to cover the opening between the intake structure and vertical pipe and provide structural support. The 2018 dive report, prepared by USBR, states the intake structure is in satisfactory condition with the exception of the bearing plate. The bearing plate was observed to be fully covered with corrosion and rust nodules.

Need

The steel bearing plate on the intake structure has deteriorated because of corrosion and poses an operational risk for both the protection against outside intrusion of elements penetrating through the opening or structural support of the intake pipe and screen.

Description

Engineering services will be retained to determine the expected level of performance from the steel bearing plate (protection from outside element intrusion or structural). Engineering will need to be conducted by a structural engineer to determine if the steel bearing plate is necessary for support, and if required, a method to design a repair that will allow for continued structural support of intake structure. The reservoir may need to be lowered to accommodate inspections and repairs.



PRIORITY CATEGORY

4. Evaluates Potential Critical Deficiency

ESTIMATED COST

\$130,000

Fiscal Year	Phase	Cost
2024-25	Eng/Construction	\$130,000

This project has been identified by the USBR as a Category 2 recommendation.

Background

Water diversions from Lake Cachuma occur from the North Portal Intake Tower facility into the Tecolote Tunnel and to the South Coast Conduit for water delivery to the Cachuma Project Member Agencies. The vertical intake tower stands 120 feet tall located approximately mid-reservoir and contains five slide gates, each at varying levels on the pentagonal shaped tower. The slides gates are covered with mesh fish screens to prevent fish and debris from entering the tunnel.

Need

The North Portal Intake Tower was constructed by the Bureau of Reclamation in the 1950's, at which time, the standards for structural design requirements were not as stringent as today's compliance requirements. Structural elements of the intake structure would be examined to determine the general reliability of the tower, and recommendations for upgrades and refurbishments would be provided if needed. The consequence of not completing this project would be uncertainty in structure reliability during a seismic event, which could result in losing ability to deliver water to the South Coast while emergency repairs are made.

Description

This initial phase of the project consists of acquiring the consulting services of a qualified structural engineering firm to perform a Seismic Reliability Analysis and Physical Condition Assessment of the North Portal Intake Tower located at the North Portal of the Tecolote Tunnel. It shall include a report of all findings and propose recommendations for structural rehabilitation to increase and/or ensure continued reliability of the structure in the occurrence of a large seismic event. An assessment of the tower is easier to perform when the lake level is low. This project is scheduled to be performed when the lake level exposes a large portion of the intake tower.



PRIORITY CATEGORY

3. Addresses Critical Deficiency

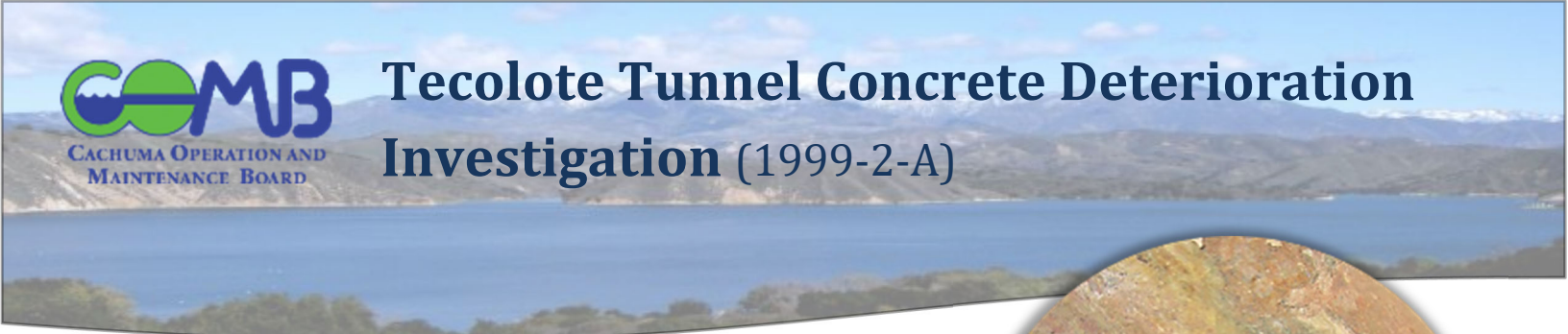
ESTIMATED COST

\$100,000

Fiscal Year	Phase	Cost
2024-25	Engineering	\$100,000

**A condition assessment of the North Portal Intake Tower is ideally completed when the lake level is low exposing for examination.*

No regulatory compliance measures are expected for this project.



Background

The Tecolote Tunnel was completed in 1956 to divert water from Lake Cachuma to the South Coast Conduit. The tunnel provides water delivery through the mountain to the South Portal. The tunnel structure consists of a modified circular horse-shoe shaped cross section constructed of steel encased in 12 inches of concrete, and operates in open channel flow that is approximately 7' inside and is 6.4 miles long with a gradual shallow slope to enable gravity feed. The only ingress and egress are at the North Portal and South Portal. During periodic inspections by the USBR, deteriorations have been observed in the tunnel lining due to long-term exposure to hydrogen sulfide gas.

Need

Hydrogen sulfide has caused some deterioration of the concrete lining of the tunnel. In areas, the interior concrete surface has peeled in sheets approximately 3/8 of an inch thick and fallen into the invert, creating sediment. The majority of the tunnel is in acceptable condition, however, a few locations have small areas where leaching could affect the structural integrity of the concrete. Review is necessary, as the consequence of not completing this project is uncertain in terms of structure reliability. A tunnel failure could interrupt 40 MGD during peak demand time if not addressed, and would be very technically difficult to repair.

Description

The project requires engineer evaluation of concrete deterioration, and recommended remediation. A thorough investigation and monitoring program needs to be implemented to determine if the concrete deterioration presents risk of structural failure. The program should be designed to address the specific questions raised by the 1999 RO&M Reclamation Report, action 2012-2-Q, which recommends COMB “prepare and implement a repair plan to perform all necessary repairs to address all damaged concrete and remediate the widespread concrete deterioration in the Tecolote Tunnel to restore safe and reliable service of the facility.”



PRIORITY CATEGORY

4. Evaluates Potential Critical Deficiency

ESTIMATED COST

\$100,000

Fiscal Year	Phase	Cost
2024-25	Engineering	\$100,000

This project has been identified by the USBR as a Category 2 recommendation.

THIS PAGE INTENTIONALLY LEFT BLANK



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.”*

May 22, 2023

General Manager Report

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

Administration

- **Annual Comprehensive Financial Report (Audit) for Fiscal Year 2022-23**

Bartlett, Pringle & Wolf, LLP is scheduled to begin the annual comprehensive financial audit for fiscal year ending June 30, 2023. The audit is comprised of the review of the statement of net position, related statements of revenue, expenses and changes in net position, cash flows for the year then ended, and the related notes to the financial statements. It is anticipated the results of the audit will be presented to the Administrative Committee and the Board of Directors in December 2023.

- **Internal Operational Annual Work Plans**

In conjunction with the development of the annual operating budget, internal operational work plans are in the process of being updated by each division. These plans are focused on planning and preparation for the upcoming fiscal year work activities and provide the Division Managers and staff with guidance on scheduling and achieving the completion of varied operational activities performed by COMB staff.

U.S. Bureau of Reclamation

- **O & M Contract Renewal**

The Cachuma Operation and Maintenance Board (COMB) and the United States Department of the Interior, Bureau of Reclamation, entered into the Transfer of Operation and Maintenance of the Cachuma Transferred Project Works Contract No. 14-06-200-5222R on March 1, 2003. Effective September 28, 2020, the Cachuma Operation and Maintenance Board and the United States Department of the Interior, Bureau of Reclamation, executed the Transfer of Operation and Maintenance of the Cachuma Transferred Project Works Amendatory Contract No. 14-06-200-5222RA. The Amendatory Contract is effective for a three (3) year period and will expire on September 30, 2023.

Reclamation intends to enter into a second interim amendatory contract with COMB for the operation and maintenance of the Cachuma Project Transferred Project works. Included in the renewal process is for Reclamation to conduct a series of technical sessions with COMB and Member Agency staff to provide initial information on updated requirements within Reclamation standard articles, and exchange comments related to elements of the draft amendatory contract. Reclamation is in the process of formulating a schedule which will include a timeframe of deliverables required by each party. A letter of interest request addressed to Reclamation will be presented to the Administrative Committee prior to the COMB Board for approval.

Respectfully Submitted,

Janet Gingras

General Manager

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: May 22, 2023

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

Water Year 2023 has had 476,364 acre-feet of computed inflow as of May 16, 2023. Water Year 2023 is the second highest inflow year since Bradbury Dam was constructed (Table 1). Reclamation closed the spillway gates on April 13th, 2023 and transitioned to outlet works releases. Reclamation has continued to release higher than required flows downstream due to the continued inflow into the lake. Reclamation declared a surplus of water on February 26th and will likely continue the surplus until the flows are reduced to the required releases.

Cooler than normal temperatures have continued into April and May which has resulted in lower than normal lake evaporation rates (Figure 1). The cooler temperatures reduce evapotranspiration which in turn result in increases baseflows, decreases lake evaporation, and reduces irrigation demands compared to normal temperatures.

Table 1. Highest Water Year Inflows since Bradbury Dam was constructed

Rank	Water Year	Computed Inflow (acre-feet)	Gibraltar Dam Rainfall (inches)
1	1969	525,364	58.37
2	2023	476,364*	59.52
3	1998	475,177	73.12
4	1983	428,471	64.99
5	2005	401,756	69.11
6	1995	365,096	58.92

*As of May 16, 2023

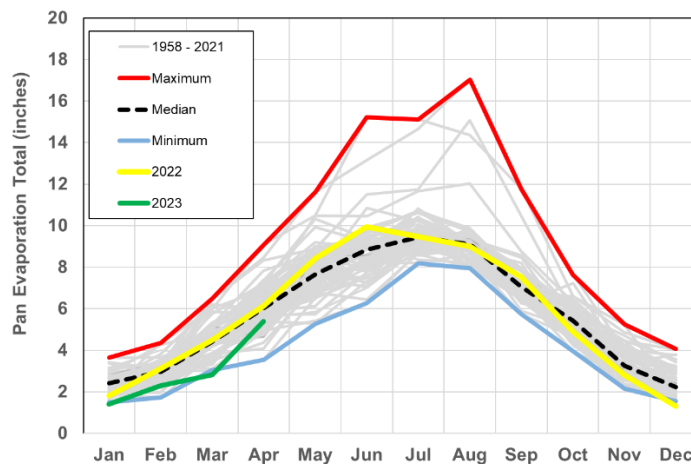


Figure 1. Bradbury Dam Monthly Pan Evaporation Rates

Water Year 2023 rainfall to date for Santa Barbara County is 201% of normal. The U.S. Drought Monitor reclassified Santa Barbara County as having no drought conditions in March 2023 and most of the state of California

has been identified with no drought conditions. The Climate Prediction Center predicts a transition from ENSO-neutral within the next couple of months, with a greater than 90% chance of El Niño persisting into the Northern Hemisphere winter. All of the water years with the highest inflow in Table 1 occurred when there were El Niño conditions with the exception of the current water year (WY 2023). While El Niño conditions are typically associated with wetter years, recently one of the driest years (WY 2016) on record also had El Niño conditions.

JANUARY STORM DISASTER RECOVERY

A winter storm system occurring on January 9th and 10th caused widespread flooding, erosion, landslides, and damage across Santa Barbara County. COMB had its scoping meeting with FEMA on March 8th and FEMA performed site inspections on April 18th and 19th on areas that had not been remediated yet. COMB plans to solicit bids in mid-June for the remaining debris removal and is working on mitigation designs to potentially improve infrastructure and make it more resilient to damage. COMB is pursuing mitigation on damaged areas through 406 Public Assistance mitigation funds.

COMB also submitted two Notice of Intents (NOI) for the Hazard Mitigation Grant Program (Section 404). One NOI was related to improving the undamaged areas of the Lauro Reservoir Overflow Bypass/Road with a concrete retaining wall and concrete bypass channel/road and the other involves the relocation of the Toro Canyon blowoff outside of the floodplain.

INFRASTRUCTURE IMPROVEMENT PROJECTS

Table 2 provides the status of Fiscal Year 2022-23 infrastructure improvement and special projects. COMB made significant progress in FY 2022-23 with the completion of the Secured Pipeline Project and a major shutdown of the South Coast Conduit in Carpinteria to rehabilitate laterals, air valves, and blowoffs. The Secured Pipeline Project and Carpinteria shutdown had been planned and discussed by the Board for several years. The completion of these projects improves the resiliency of the water system.

Table 2. Fiscal Year 2022-2023 Infrastructure Improvement Projects

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
Infrastructure Improvement Projects			
SCC Line Valves for Shutdown	Contractor has been engaged to perform design on Lillingston Line valve and provided preliminary design exhibit for its proposed location to COMB. Potholing will be required to locate the joints on the SCC to finalize the design and locate other utilities.	Additional line valve(s) are needed in Carpinteria to facilitate shutdown work. A Cooperative Agreement between CWWD and COMB has been approved by COMB and CWWD to facilitate the work.	Postponed to Fall 2023
SCC Structure Rehabilitation : Lower Reach Laterals	CWWD contractor successfully completed rehabilitated Laterals 1R,1L, 2R, 3L,4L in August and Laterals 17L and 19R in December and Laterals 5R and 6R in March which completes Phase 1 of the Cooperative Agreement.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement. COMB is collaborating with CWWD on this project.	CWWD construction on Phase 1 was completed in March 2023. Phase 2 may be initiated in FY 2023-24.
SCC Structure Rehabilitation : AVAR/BO Valves	A shutdown from Toro Canyon Isolation Valve to La Mirada isolation valve was conducted in March 2023. This rehabilitation work allowed completion the USBR Category 1 recommendation regarding the SCC AVAR. The shutdown was the most complicated yet requiring CWWD to temporarily install an extensive bypass system, involved two contractors, and numerous land closures on Highway 192.	The remaining structures to be rehabilitated are the most difficult access-wise (with several in Highway 192) and with difficult shutdowns to schedule in the Carpinteria area.	Shutdown and construction was completed in March 2023.
Special Projects			
Emergency Pumping Facility - Secured Pipeline Project	The contractor completed installation of the Secured Pipeline Project and has demobilized from the lake. Sonar of the installation confirmed its correct alignment and placement on the lake bottom, and a flow test of the screened gravity intake and system confirmed proper functioning of the components and system.	Storms and unprecedented inflow into the lake in early January 2023 necessitated accelerated installation by the contractor and staff. The additional debris load into the reservoir buried the connection of the system at the Intake Tower and deposited some material onto the screened gravity intake. Sonar, flow testing, and underwater drone video confirmed proper functioning of all components.	Construction was completed in February 2023. COMB staff is working on issuing completion notifications and reports to appropriate grant and permitting agencies.
Lake Cachuma Water Quality and Sediment Management Study	COMB awarded the contract for the Phase 2 phosphorous/TOC source study in October 2022. A kickoff meeting was conducted in December and a work plan was provided in March with sampling tentatively schedule for May/early June 2023.	COMB staff has taken additional tributary samples through winter months to supplement the study. The rise in lake level complicates sediment sampling procedures at the deepest part of the lake. In addition, with the high amounts of inflow and sedimentation - the entire volume of the lake has been exchanged with new water and the bottom is likely covered with an extensive layer of new sediment.	A focused phosphorous and TOC sourcing study by COMB is planned for FY 2022/2023 and FY 2023/24. The Phase 2 phosphorus/TOC source study is scheduled for completion in December 2023 upon receiving the final report

CACHUMA OPERATION AND MAINTENANCE BOARD

DATE: May 22, 2023
TO: Janet Gingras, General Manager
FROM: Shane King, Operations Supervisor
RE: **MONTHLY REPORT OF OPERATIONS – April 2023**

The total flow from Lake Cachuma into the Tecolote Tunnel for April was 1,613.37 acre-feet, for an average daily flow of 53.78 acre-feet. Lake elevation was 751.62 feet at the beginning of April and 753.71 feet at the end of April. Lake storage increased by 6,938.31 acre-feet. There was no inflow from CCWA into Cachuma Project facilities this month. The City of Santa Barbara wheeled 310.07 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was utilized and delivered 320.94 acre-feet of water to Hilton Creek for the month of April.

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

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

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

Routine operation and maintenance completed during the month of April 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 83 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 and document anodes and rectifier data

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

- The slide gates on the intake tower at Cachuma Lake were greased and exercised. Staff also ran and greased the Tecolote tunnel air exchange fan, ran the backup generator, and did some organization and housekeeping in the North Portal building.
- Staff cleaned and coated some areas on the metal pipe inside Ortega reservoir. It was found during the cleaning of Ortega reservoir that some of the coating on the metal pipe inside Ortega reservoir had been compromised and was starting to rust and has some pitting in certain areas. Staff cleaned and re-coated the areas of concern with Aquatapoxy which is designated for use in potable reservoirs (see photos)
- Operations crew installed an insertion mag meter at the Boundary meter site. Staff also needed to pull wire and cable into the PLC cabinet to connect the meter to COMB's SCADA system. Aspect engineering will be onsite at the end of the month to program the PLC to register tags and communications from this meter to COMB's SCADA system.
- Staff repaired a hole in the security fencing around the Lauro Reservoir.
- Operations staff cleared a large slide area on the road leading to the Glen Anne turnout at the Goleta/Glen Anne reservoir site. A large amount of material came down and inundated the access road during our most recent rain event. (see photos)
- Staff replaced some cottonwood trees in San Jose creek that had been destroyed in this season's heavy rainfall. The trees were originally planted for mitigation purposes of the San Jose creek crossing project. COMB was able to locate four locally grown 20 gallon trees for replacement.
- Staff has been working on our annual weed abatement and right-of-way access management program. This work includes weed abatement and brush clearing on all of COMB's access roads and around all facilities. COMB contracted with RA Atmore for clearing work on Glen Anne road and dam face and Ortega dam face. This program also helps up keep up with our mandatory defensible space areas around all of COMB's facilities. These facilities include:
 - The North Portal site and buildings and fence lines
 - The Glen Anne and south portal site, buildings and fence lines
 - Lauro reservoir site, buildings, and fence lines
 - Sheffield valve pit site, buildings, and fence lines
 - Ortega reservoir, valve pit, buildings, and fence lines
 - Carpinteria reservoir, valve pit, buildings, and fence lines
- Contractors are still Onsite at Ortega Reservoir working on the Joint seal repairs. The work is scheduled to be completed on the week of May 22nd. It is requested that the repairs have a week to dry, then COMB staff will do a final wash down on the week of May 29th and return the reservoir to normal operations.

Glen Anne slide clean up



Ortega pipe coating repair



Weed abatement / Site clearing

Ortega Dam Face



THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION AND MAINTENANCE BOARD
BOARD MEMORANDUM

DATE: May 22, 2023
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- 2000 Biological Opinion target flows have been met by USBR through Lake Cachuma releases:
 - Hilton Creek (minimum of 2 cfs): Hilton Creek Watering System (HCWS) to the Upper Release Point (URP) and Lower Release Point (LRP) (approximately 6 cfs) plus upper basin flows (approximately 2 cfs), which has been sustaining the *O. mykiss* population in the creek.
 - Highway 154 Bridge and Alisal Bridge (minimum of 20 cfs): The 2023 spill continues to sustain flows higher than target flows.
- As of 2/15/23, Order WR 2019-048 Table 2 flows have been initiated for a Wet Year classification (specifically reservoir inflow > 117,842 af).
- Lake Cachuma continues to spill since the last Board meeting; spill ramp-down / stranding surveys have continued as USBR decreases the spill release.

In compliance with the 2000 Cachuma Project Biological Opinion (BiOp) (NMFS, 2000) and WR Order 2019-0148, 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 the 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:

Lake Profiles: Lake Cachuma water quality measurements (temperature, dissolved oxygen concentration, pH, 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/Report.

Redd Surveys: Redd surveys are conducted approximately every two weeks from mid-December through May (depending on streamflow conditions). 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.

Spill Ramp Down / Stranding Surveys: As Reclamation reduces the spill rate starting from the peak release of 2/26/23, surveys have been conducted by COMB-FD staff to look for stranded fish as the river flows recede into the lower flow channels. Spill ramp down and stranding surveys are ongoing and a final report will be provided to Reclamation once the spill has been concluded.

Monitoring Target Flows: Monitoring for the required 2000 BiOp and WR 2019-0148 target flows are conducted by USGS and USBR for Hilton Creek, and COMB-FD, USBR and USGS for the LSYR at the Highway 154 Bridge and Alisal Bridge.

The minimum target flow of 2 cfs to Hilton Creek was met throughout April with HCWS gravity flow to the URP and the (between 4.5 and 6.5 cfs) and upper basin flows (approximately 2 cfs) for a total of over 8 cfs recorded by the USGS that includes sustaining upper basin flows.

Spill and target flow releases from Bradbury Dam have been keeping river flows at the Highway 154 Bridge and the Alisal Bridge well above Table 2 compliance flows (20 cfs for 4/15 – 6/01). The new USGS stream gage at the Highway154 Bridge is operating as designed and contracted. USBR continues to work with the State Board to modify Term 18 and Term 25 to move the target flow compliance point to the new USGS gage site.

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

HCWS and HCEBS: The HCWS and HCEBS are owned, operated, and maintained by USBR. USBR technical staff continues to consider improvement options for the HCWS and HCEBS. The HCWS was initially constructed in 1999 then modified to its current configuration in 2004. Recent and notable changes or repairs to these two Hilton Creek delivery systems are as follows:

- The 1/9/23 storm damaged the HCWS pumping barge and all of the electrical systems on that barge went under water and now need to be replaced. The anchoring cables had to be cut by Reclamation to right that barge that is now holding position by the attached submerged delivery pipeline (both in and out). Lake water is currently flowing by gravity from the Intake Barge to Hilton Creek and will continue to do so for the unforeseen future given that the lake is full.
- The HCEBS floating pipeline across the Stilling Basin was disconnected on the north side by USBR on 2/7/23 just prior to exercising all four of the spillway gates on 2/8/23. During the 2/25/23 spill event, that floating pipeline moved to the south bank and is now out of harm's way from the current spill event. It has not been determined if the pipeline got damaged upon moving to its current location.
- On 4/11/23 and 4/12/23, Reclamation closed the Slide Gate on the Bradbury Dam Penstock and successfully replaced the stuck 30-inch valve with a blind flange then reopened the Slide Gate. The Outlet Works can now release lake water to the LSYR through one 30-inch valve and one 10-inch valve. Once that damaged valve is reconditioned, it will be reinstalled and the other 30-inch valve will be removed and reconditioned. This operation has not been scheduled.
- No further actions or repairs have been scheduled.

Surcharge Water Accounting:

The following table summarizes the amount of surcharge water (defined as the amount of storage added to the lake by installing the flashboards to the top of the four radial gates to take the maximum lake elevation from 750 ft to 753 ft) used to date from each of the three accounts (Fish Passage Supplementation, Adaptive Management, and Fish Rearing) 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 is the day following the last day of full surcharge and the end of the last spill event (prior to this wet year, it was 5/27/11). With the magnitude of this year's ongoing spill, all Surcharge Water Accounts are once again full and are reflected in Table 1 using the 2021 bathymetric survey values.

Table 1: Summary of the surcharge water accounting and use of Project Yield as of 4/20/23, using the 2021 bathymetric survey data.

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation			
WY2021	3,200	0	3,200
Adaptive Management	500	0	500
Fish Rearing***	5,527	0	5,527
Unallocated Project Water		0	
Total:	9,227	0	9,227
* Originally was 9,200 af, 8,942 af in 2008, 9,184 af in 2013, and 9,227 af in 2021.			
** Values as of 4/30/23.			
*** 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 continues to work on the WY2022 Annual Monitoring Report and WY2022 Annual Monitoring Summary, specifically data entry and analyses and report writing.

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. Staff presented a poster on sulfur and *O. mykiss* at the 40th Annual Salmonid Restoration Federation conference in Fortuna, CA. The poster interested attendees and was very well received.

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2023
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

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

RECOMMENDATION:

The Board of Directors receive information on the current status of the Lake Cachuma Oak Tree Restoration Program (Program), review the End of Program Plan, and provide direction to staff as appropriate.

SUMMARY:

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since May, 2022 to the present (5/1/22 – 5/22/23, Table 1). Labor and expenses as well as water usage for the entire fiscal year (July 2022 - June 2023) are tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division (FD) seasonal employees whenever possible 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 2021 Annual Report with the annual inventory and Fiscal Year 2021-22 financials was completed and reviewed by the Lake Cachuma Oak Tree Committee on 9/16/22 and provided to the COMB Board on 9/26/22 that recommended going forward with replacing 50 dead oak trees during the wet season of this water year. The COMB Board was in agreement with that directive.

Table 1: Cachuma Oak Tree Program completed maintenance tasks since April, 2022.

	May 2022 ¹	June 2022 ¹	July 2022 ¹	August 2022	Sept 2022	Oct 2022	Nov 2022	Dec 2022 ¹	Jan 2023 ¹	Feb 2023 ¹	March 2023 ¹	April 2023 ¹	May 2023 ¹
Year 13 Oaks (2021-2022)		Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded				Assess Clean-up		Replanting Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	Mulch/Irrigation Weeding Tree tags GPS/GIS
Year 12 Oaks (2020-2021)	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded					
Year 11 Oaks (2019-2020)	Irrigated Weeded		Irrigated Weeded										Irrigated Weeded
Year 10 Oaks (2018-2019)													
Year 9 Oaks (2016-2017)													
Year 8 Oaks (2015-2016)											Infrastructure Repair		
Year 7 Oaks (2014-2015)													
Year 6 Oaks (2005-2011)													

¹ Oak tree inventory.

Summaries of specific tasks outside of routine maintenance are presented below.

SPECIFIC TASKS

Tree Planting

At the end of April and beginning of May, staff replaced 57 dead oak trees at Live Oak Park (Year 13) and within the County Park (Year 12 and Year 11) (Exhibit 1). The lower parking lot for Live Oak Camp got flooded and multiple trees were damaged or washed away during the January and February high flow events. About 35 trees were replaced in that area and the rest went into the County Park.

Truck Maintenance

In 2016, COMB purchased a pre-owned (2013) 2000 gallon International water truck at a cost of \$50,000 in support of the irrigation needs of the Lake Cachuma Oak Tree Restoration Program. Basic mechanical maintenance is done annually. Approximately every other year, the truck is taken to Gibbs Truck Center in Camarillo or Santa Maria, as they specialize in working on Internationals. After a recent inspection, multiple mechanical problems were detected, specifically the need to replace the clutch and flywheel, a leaky main seal to the crankcase, the front and rear brakes, the regeneration (Regen) switch, the driver's seatbelt, a leaky hose on the side of the engine block, the air filter, as well as refurbish the power take-off pump (PTO), and update the onboard software. The total cost for all required repairs was \$12,920.

Staff conducted a simple cost-benefit analysis prior to proceeding with the quoted repairs. A comparable pre-owned water truck purchased today would cost more than \$70,000 and a new water truck would cost \$110,000 or more. The decision was made to proceed with the repairs so that the truck would be in good operating condition during the upcoming busy summer watering season and to maintain the longevity of the truck for the remainder of the Program. After the Program has ended, the water truck will either be re-purposed for other COMB operations or sold.

Annual Inventory

The 2022 Annual Inventory of all year classes has been completed. Staff is now working on the Annual Report that will be finished after the end of the Fiscal Year.

End of Program Plan

A draft Lake Cachuma Oak Tree End of Program Plan was presented to the Lake Cachuma Oak Tree Committee on 5/17/23. After a thorough discussion and incorporating several recommendations, the Plan is attached and presented as Exhibit 2.

COMMITTEE STATUS:

On 5/17/23, the Lake Cachuma Oak Tree Committee met to review the draft Lake Cachuma Oak Tree End of Program Plan with the recommendation to present it to the COMB Board for their information. Also during that meeting, a status report of the Program was given plus an explanation of the need for repairs to the 2000 International Water truck.

LIST OF EXHIBITS:

Exhibit 1: Oak tree inventory showing (a) planted replacement trees at Live Oak Camp and (b) data entry and QA/QC at the COMB office.



Exhibit 2: Lake Cachuma Oak Tree Restoration Program – End of Program Plan

SUMMARY:

The Lake Cachuma Oak Tree Restoration Program (Program) is a 20 year effort that started in 2005 with mitigation targets set for December of 2025. The Program was initiated after Reclamation installed 4-foot high flashboards on top of the radial gates of Bradbury Dam to allow for 3 foot surcharge of the lake for additional water storage in support of the downstream fishery. Raising the maximum lake level by 3 feet caused oak trees to die or be put at-risk. The mitigation number for replacing oak trees was set 10 years into the Program by the total number of Dead and At-Risk trees. The Program was described in the 2000 Cachuma Project Biological Opinion and the 2004 EIR/EIS for those actions.

With the end of the Program nearing, an End of Program Plan (Plan) has been developed that presents the decreasing activities and costs for the next 5 Fiscal Years (July – June) as the Program comes to closure for all proposed tasks (Table 1) and staffing to implement those tasks (Table 2). All established metrics for that Program have been met to date. The duration of each task and the Fiscal Year costs are an estimate given our extensive experience with the Program. Unexpected events (such as flooding of Live Oak Camp lower lot) will require some flexibility in tasks and expenditures as the Program comes to an end to assure meeting established mitigation requirements.

FISCAL IMPACT:

The current Fiscal Year 2022-23 (FY23) COMB Operating Budget includes \$18,000 for the Oak Tree Restoration Program, which provides for consultant work and materials and supplies. This amount does not include internal staffing resources. Future funding needs will diminish to zero over the next four Fiscal Years as tasks end in accordance with the End of Program Plan (Tables 1 and 2).

Table 1: Gant chart of all estimated tasks for the Fiscal Year 2022-23 through Fiscal Year 2026-27.

Fiscal Year (Budget \$)	Tasks*	Month:											
		JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
FY23 (\$18,000)	Inventory+Tag Maintenance					All	All	All					
	Irrigate	11, 12, 13	11, 12, 13	11, 12, 13	11, 12, 13							11, 12, 13	11, 12, 13
	Replace Dead Trees										11,12, 13	13	
	Mulch	All										All	All
	Weed	All										All	All
	Remove Deer Cage**									1-7	1-7	1-7	
FY24 (\$15,000)	Inventory+Tag Maintenance					All	All	All					
	Irrigate	12, 13	12, 13	12, 13	12, 13							12, 13	12, 13
	Replace Dead Trees												
	Mulch	7-13										7-13	7-13
	Weed	7-13										7-13	7-13
	Remove Deer Cage**									1-8	1-8	1-8	
FY25 (\$3,000)	Inventory+Tag Maintenance					All	All	All					
	Irrigate	13	13	13	13							13	13
	Replace Dead Trees												
	Mulch	7-13										7-13	7-13
	Weed	7-13										7-13	7-13
	Remove Deer Cage**									1-9	1-9	1-9	
FY26 (\$1,000)	Inventory+Tag Maintenance					All	All	All					
	Irrigate												
	Replace Dead Trees												
	Mulch												
	Weed												
	Remove Deer Cage**									All	All	All	
FY27 (\$0)	Inventory+Tag Maintenance												
	Irrigate												
	Replace Dead Trees												
	Mulch												
	Weed												
	Remove Deer Cage**			All	All								

*13 Year Classes plus Dam Tender Trees.

**A deer cage will be removed if the tree is greater than 6 feet tall.

Table 2: Estimated staffing costs for the next 5 Fiscal Years.

Fiscal Year	Staffing:						TOTAL
	Seasonal Biologist Aides	Biologist Assistant	Project Biologists	Senior Resource Scientist	Administration Analyst	Consulting Arborist	
FY23	\$38,977	\$47,639	\$18,189	\$4,331	\$4,764	\$2,000	\$115,900
FY24	\$31,182	\$38,111	\$14,551	\$3,465	\$3,811	\$1,600	\$92,720
FY25	\$19,489	\$23,819	\$9,095	\$2,165	\$2,382	\$1,000	\$57,950
FY26	\$7,795	\$9,528	\$3,638	\$866	\$953	\$400	\$23,180
FY27	\$0	\$0	\$0	\$0	\$0	\$0	\$0

CACHUMA OPERATION AND MAINTENANCE BOARD
METERED USE REPORT FOR APRIL 2023

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		225.78	18+62	G. WEST	28.28
Boundary Meter - West		(0.04)	78+00	Corona Del Mar FILTER Plant	950.99
			122+20	STOW RANCH	0.00
				SWP CREDIT (Warren Act Contract)	0.00
				Raytheon (SWP) (Warren Act Contract)	0.00
				Morehart (SWP) (Warren Act Contract)	0.00
			TOTAL		979.27
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	35.13
			386+65	MWD YARD	0.33
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	167.05
			510+95	MWD PUMP (SWD)	0.00
			510+95	ORTEGA CONTROL	0.00
			526+43	ASEGRA RD	0.08
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.83
			599+27	TORO CANYON	5.47
				SWP CREDIT (Warren Act Contract)	0.00
				City of SB / MWD WSA ("Desal")	(117.38)
			TOTAL		91.50
			CITY OF SANTA BARBARA		
			CATER	INFLOW	1,160.33
			Gibraltar	PENSTOCK	(310.07)
			CATER	SO. FLOW	(547.94)
			Sheffield	SHEF.LIFT	106.69
				SWP CREDIT (Warren Act Contract)	0.00
				La Cumbre (SWP) (Warren Act Contract)	0.00
				City of SB / MWD WSA ("Desal")	117.38
			TOTAL		526.39
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		1.85
			TOTAL		1.85
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		0.00
			STATE WATER TO SOUTH COAST including from stored		0.00
			METERED DIVERSION		1,824.75
SWP CREDIT (Warren Act Contract) 0.00 TOTAL 225.74 Note: Meter reads were taken on: 5/1/2023					

WATER YEAR 22-23 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF APRIL 2023 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT		
WATER PRODUCTION:	MONTH	WYTD
Cachuma Lake (Tec. Diversion)	1,682.2	8,653.2
Tecolote Tunnel Infiltration	104.0	625.4
Cachuma Lake (County Park)	1.9	7.5
Subtotal - Water Production	1,788.1	9,286.1
WATER DELIVERIES:		
State Water Diversion	0.0	480.0
Cachuma Diversion	1,824.8	9,006.1
Storage gain/(loss) ⁽²⁾	(11.6)	3.0
Subtotal - Water Deliveries	1,813.2	9,489.1
Total Water Production	1,788.1	9,286.1
Total Water Deliveries	1,813.2	9,489.1
Difference = Apparent Water Loss	(25.1)	(203.0)
% Apparent Water Loss	-1.40%	-2.19%

SCC APPARENT WATER LOSS ALLOCATION (AWL) ⁽³⁾

	GWD	SB CITY	MWD	CVWD	TOTAL
CURRENT MONTH CHARGE / (ADJUSTMENT)					
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	0.0	0.0	0.0	0.0	0.0
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
Total Current Month	0.0	0.0	0.0	0.0	0.0
WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)					
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	0.0	0.0	0.0	0.0	0.0
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
Total AWL Charged (WYTD)	0.0	0.0	0.0	0.0	0.0
Total AWL Not Charged (WYTD)					(203.0)
Total AWL Incurred (WYTD)					(203.0)

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	888.3	526.4	88.2	128.0	1.9	1,632.8
Agricultural	91.0	0.0	3.3	97.7	N/A	192.0
Subtotal Project Water Use	979.3	526.4	91.5	225.7	1.9	1,824.8
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁴⁾	0.0	0.0	0.0	0.0	0.0	0.0
Total Project Water Charge	979.3	526.4	91.5	225.7	1.9	1,824.8
WATER YEAR-TO-DATE						
Water Usage						
M&I	3,758.5	3,402.0	326.3	496.8	7.5	7,991.2
Agricultural	584.4	0.0	21.7	408.8	N/A	1,015.0
Subtotal Project Water Use	4,342.9	3,402.0	348.1	905.6	7.5	9,006.1
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁴⁾	175.3	461.9	47.9	69.5	82.5	837.1
Total Project Water Charge (*)	4,518.2	3,863.9	396.0	975.2	90.0	9,843.2

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

WATER YEAR 22-23 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF APRIL 2023 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT WATER BALANCE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
Project Water Carryover - 10/1/2022	7,890.4	19,239.8	2,067.3	3,035.0	3,353.8	35,586.3
(-) Project Water Charge (WYTD)	2,727.0	2,789.2	296.7	671.7	87.1	6,571.7
Carryover Available Before Adjustments	5,163.4	16,450.6	1,770.6	2,363.3	3,266.7	29,014.6
Adjustments to Carryover (WYTD)						
State Water Exchange ⁽⁵⁾	0.0	0.0	0.0	0.0	(126.0)	(126.0)
Surplus ⁽⁶⁾	69.5	63.0	3.9	16.2	0.9	153.5
Carryover Spilled ⁽⁷⁾	(5,232.9)	(16,513.6)	(1,774.5)	(2,379.5)	(3,141.6)	(29,042.1)
Balance Project Water Carryover	0.0	0.0	0.0	0.0	0.0	0.0
Current Year Allocation ⁽⁸⁾	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
(-) Balance of Project Water Charge (WYTD)	1,791.2	1,074.7	99.3	303.5	2.9	3,271.5
Allocation Available Before Adjustments	7,530.8	7,202.3	2,551.7	2,509.5	2,648.1	22,442.5
Adjustments to Allocation (WYTD)						
State Water Exchange ⁽⁵⁾	46.0	30.0	30.0	20.0	0.0	126.0
Surplus ⁽⁶⁾	1,791.2	1,074.7	99.3	303.5	2.9	3,271.5
Transfers/Adjustment - SB/La Cumbre	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - Bishop Ranch ⁽⁹⁾	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
Balance Current Year Allocation	9,468.0	8,307.0	2,681.0	2,833.0	2,651.0	25,940.0
Total Cachuma Project Water Available	9,468.0	8,307.0	2,681.0	2,833.0	2,651.0	25,940.0

ACCUMULATED DROUGHT WATER CREDIT (ADWC) BALANCE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
ADWC Balance - 10/1/2022 ⁽¹⁰⁾	543.8	482.8	154.6	164.1	154.6	1,500.0
(-) ADWC Water Charge (WYTD)	0.0	0.0	0.0	0.0	0.0	0.0
Adjustments to ADWC (WYTD)						
ADWC Spilled ⁽⁷⁾	(543.8)	(482.8)	(154.6)	(164.1)	(154.6)	(1,500.0)
Balance ADWC	0.0	0.0	0.0	0.0	0.0	0.0
Total Cachuma Project + ADWC Available	9,468.0	8,307.0	2,681.0	2,833.0	2,651.0	25,940.0

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 SWP Exchange Agrmt GWD received 0 AF; City of SB received 0 AF; MWD received 0 AF; and CVWD received 0 AF from ID#1 in April 2023
- (6) Per USBR, surplus water became available to Member Units beginning 2/26/23 and continued for the remainder of February and March
- (7) Spill releases from Bradbury Dam in February 2023 (69,977 AF) reduced SWP, Carryover, and ADWC accounts
- (8) Per USBR, 100% mid-year allocation to Member Units, effective 2/28/23
- (9) Transfer per Contract for Exchange Water with Thomas B. Bishop Company and GWD (100 AF)
- (10) Correspondence from Michael Jackson to the Member Units (MU's) dated 9/14/2022 revised the Downstream Users Accounting Reports effective August 2022 as produced by Reclamation. A credit of 1,500 acre-feet of water from the Below Narrows Account was transferred to the MU's based on provisions of the September 17, 2002 Settlement Agreement.
- (11) Memo only - State Water Deliveries to Lake Cachuma for April 2023 was 0 AF
- (12) Memo only - MWD has received 1,138.98 AF under the City of SB / MWD WSA ("Desal") for this Contract Year (July 1 - June 30)

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **APRIL 2023**

GLEN ANNIE RESERVOIR ⁽¹⁾

Capacity at 385' elevation:	335	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	352.1	Feet
Water in Storage	125.14	AF

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	546.3	Feet
Water in Storage	450.98	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	440.0	Feet
Water in Storage	0.00	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	375.2	Feet
Water in Storage	23.93	AF

TOTAL STORAGE IN RESERVOIRS ⁽¹⁾

Change in Storage	474.91	AF
	-12.44	AF

CACHUMA RESERVOIR ⁽²⁾

Capacity at 750' elevation: ⁽³⁾	183,751	AF
Capacity at sill of tunnel 660' elevation:	23,642	AF

Stage of Reservoir Elevation	753.71	Feet
Water in Storage	195,209	AF
Surface Area	3,148	Acres
Evaporation	1,136.9	AF
Inflow	62,976.6	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	320.9	AF
Outlet	5773.0	AF
Spill/Seismic Release	47,200	AF
State Water Project Water	0.0	AF
Change in Storage	6,938	AF
Tecolote Diversion	1,613.4	AF

Rainfall: Month: 0.03 Year: 39.41 inches

(1) Glen Annie Reservoir is currently offline and excluded from Total Storage in Reservoirs amount.
(2) Lake Cachuma reservoir storage volume based on 2021 bathymetric survey (NGVD29)
(3) In 2004, flashboard installation raised Cachuma Reservoir max elevation to 753' (192,978 AF); surcharge

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 (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake				
2022																																								
Bal. Frwd						810						0						0						0						92			0			0				
January	427	0	0	0	2	0	808	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	12	0	0	120	0	0	0	0	10	10	0			
February	367	0	99	0	4	0	704	0	0	0	0	0	0	0	0	0	0	0	0	332	332	0	0	0	0	25	7	1	0	138	0	0	0	0	10	10	0			
March	368	0	297	0	6	0	401	0	0	0	0	0	0	0	0	0	0	0	0	338	338	0	0	0	0	20	66	1	0	90	0	0	0	0	10	10	0			
April	453	0	290	0	5	0	107	0	0	0	0	0	100	100	0	0	0	0	0	308	308	0	0	0	0	35	23	1	0	101	0	0	0	0	10	10	0			
May	634	127	232	0	2	0	0	0	0	0	0	0	100	100	0	0	0	0	0	352	352	0	0	0	0	45	92	2	0	52	0	0	0	0	10	10	0			
June	1060	227	227	0	0	0	0	0	0	0	0	0	92	92	0	0	0	0	0	595	595	0	0	0	0	137	70	1	0	119	0	0	0	0	9	9	0			
July	569	0	0	0	0	0	0	0	0	0	0	0	100	100	0	0	0	0	0	359	359	0	0	0	0	100	14	2	0	202	0	0	0	0	10	10	0			
August	322	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	269	269	0	0	0	0	46	91	4	0	153	0	0	0	0	7	7	0			
September	186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	134	0	0	0	0	47	69	3	0	128	0	0	0	0	5	5	0			
October	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	92	0	0	0	0	44	59	2	0	112	0	0	0	0	9	9	0			
November	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	0	25	1	0	86	0	0	0	0	0	0	0			
December	223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	210	0	0	0	0	0	3	0	0	83	0	0	0	0	13	13	0			
Total	4754	354	1145	0	19	0	0	0	0	0	0	0	392	392	0	0	0	0	3366	3366	0	0	0	0	0	539	531	17	0	83	0	0	0	0	103	103	0			

(*) Adj / Notes:

LCMWC: La Cumbre Mutual Water Company; RSYS: Raytheon; MLC: Morehart Land Company

Month	Total Delivered to Lake per CCWA	CVWD						MWD						CITY OF SB						GWD						LCMWC						RSYS			MLC				
		Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake			
2023																																							
Bal. Frwd						0						0						0						0						83			0			0			
January	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	21	0	0	77	0	0	0	0	7	7	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	0	40	0	(37)	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0		
April	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	0	0	0	0	0	0	0	0	0	0	0	0		
May																																							
June																																							
July																																							
August																																							
September																																							
October																																							
November																																							
December																																							
Total	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	62	0	-37	0	0	0	0	0	7	7	0		

(*) Adj / Notes:

LCMWC: La Cumbre Mutual Water Company; RSYS: Raytheon; MLC: Morehart Land Company

Spill releases from Bradbury Dam in February 2023 (approximately 69,977 AF) reduced SWP accounts

Total SC Storage at month end (AF): 0

Total Storage at month end (AF): 0

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

Contract Year: 10/1/22 to: 9/30/23

Contract Entity: **Goleta Water District**
 Update by COMB 4/30/2023

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Evap	Used	Total	Allocation		Allocation		Total
			M & I	Agr	Total				M & I	Agr	M & I	Agr	
Oct	7,890.4	-	501.5	197.9	699.4	87.1	699.4	786.6	564.5	222.1	-	-	-
Nov	-	-	406.0	116.9	523.0	45.1	523.0	568.0	438.6	129.4	-	-	-
Dec	-	-	207.9	28.5	236.4	18.1	236.4	254.6	221.0	33.6	-	-	-
Jan	-	-	437.9	21.0	458.9	10.0	458.9	468.9	445.0	23.8	-	-	-
Feb	-	9,322.0	569.3	64.7	634.0	14.9	634.0	649.0	579.7	69.3	-	-	-
Mar	-	-	747.6	64.3	811.9	-	-	-	-	-	747.6	64.3	811.9
Apr	-	-	888.3	91.0	979.3	-	-	-	-	-	888.3	91.0	979.3
May	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	7,890.4	9,322.0	3,758.5	584.4	4,342.9	175.3	2,551.7	2,727.0	2,248.8	478.2	1,635.9	155.3	1,791.2

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	7,890.4	5,705.0	2,185.4	-	-	-
Oct	-	-	-	26.2	19.8	46.0
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	(5,163.4)	(3,456.2)	(1,707.2)	6,012.4	3,309.6	9,322.0
Mar	-	-	-	747.6	64.3	811.9
Apr	-	-	-	988.3	91.0	1,079.3
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	7,103.9	5,140.5	1,963.3	26.2	19.8	46.0
Nov	6,535.8	4,701.9	1,833.9	26.2	19.8	46.0
Dec	6,281.2	4,480.9	1,800.3	26.2	19.8	46.0
Jan	5,812.4	4,035.9	1,776.5	26.2	19.8	46.0
Feb	-	-	-	6,038.6	3,329.4	9,368.0
Mar	-	-	-	6,038.6	3,329.4	9,368.0
Apr	-	-	-	6,138.6	3,329.4	9,468.0
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 9,468.0

Footnotes
 (1) Schedule and Revisions (February 2023) - Includes Surplus Water (+69.5AF), Carryover Water Spilled (-5,232.9AF), WY 23 Allocation (+9,322AF)
 (2) Schedule and Revisions (April 2023) - Includes Surplus Water (+979.3AF), Bishop Ranch Exchange (+100AF)

SUMMARY OF WATER USED

CACHUMA PROJECT - CONTRACT #175R-1802

Contract Year: 10/1/22 to: 9/30/23

Contract Entity: **City of Santa Barbara**
Update by COMB 4/30/2023

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	19,239.8	-
Nov	-	-
Dec	-	-
Jan	-	-
Feb	-	8,277.0
Mar	-	-
Apr	-	-
May	-	-
Jun	-	-
Jul	-	-
Aug	-	-
Sep	-	-
Total	19,239.8	8,277.0

TOTAL WATER USED	CARRYOVER WATER						CURRENT YEAR ALLOCATION				
	WATER USE CHARGED						WATER USE CHARGED				
	Acre-feet			Allocation			Allocation			Total	
M & I	Agr	Total	Evap	Used	Total	M & I	----	M & I	----	Total	
651.3	-	651.3	218.5	651.3	869.9	869.9	-	-	-	-	
466.2	-	466.2	119.5	466.2	585.6	585.6	-	-	-	-	
352.2	-	352.2	49.8	352.2	402.0	402.0	-	-	-	-	
315.5	-	315.5	28.6	315.5	344.0	344.0	-	-	-	-	
542.1	-	542.1	45.5	542.1	587.7	587.7	-	-	-	-	
548.3	-	548.3	-	-	-	-	-	548.3	-	548.3	
526.4	-	526.4	-	-	-	-	-	526.4	-	526.4	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
3,402.0	-	3,402.0	461.9	2,327.3	2,789.2	2,789.2	-	1,074.7	-	1,074.7	

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

Month	SCHEDULE AND REVISIONS			
	Total	Allocation		Total
		M & I	----	
Begin Bal	19,239.8	19,239.8	-	-
ID#1 Exch (+30AF)	-	-	30.0	30.0
Surplus, Spill, Allocation ⁽¹⁾	(16,450.6)	(16,450.6)	8,277.0	8,277.0
Surplus (+548.3AF)	-	-	548.3	548.3
Surplus (+526.4AF)	-	-	526.4	526.4
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Total		
		M & I	----			
18,369.9	18,369.9	-	30.0	-	30.0	
17,784.3	17,784.3	-	30.0	-	30.0	
17,382.3	17,382.3	-	30.0	-	30.0	
17,038.3	17,038.3	-	30.0	-	30.0	
-	-	-	8,307.0	-	8,307.0	
-	-	-	8,307.0	-	8,307.0	
-	-	-	8,307.0	-	8,307.0	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 8,307.0

Footnotes
(1) Schedule and Revisions (February 2023) - Includes Surplus Water (+63AF), Carryover Water Spilled (-16,513.6AF), WY 23 Allocation (+8,277AF)

SUMMARY OF WATER USED

CACHUMA PROJECT - CONTRACT #175R-1802

Contract Year: 10/1/22 to: 9/30/23

Contract Entity: **Montecito Water District**
Update by COMB 4/30/2023

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	2,067.3	-
Nov	-	-
Dec	-	-
Jan	-	-
Feb	-	2,651.0
Mar	-	-
Apr	-	-
May	-	-
Jun	-	-
Jul	-	-
Aug	-	-
Sep	-	-
Total	2,067.3	2,651.0

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED				
Acre-feet			Allocation			Allocation			Total		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total	
174.7	15.3	190.0	22.8	190.0	212.7	189.3	23.4	-	-	-	
24.8	1.8	26.6	12.1	26.6	38.7	32.2	6.5	-	-	-	
-	-	-	5.1	-	5.1	5.0	0.2	-	-	-	
0.9	0.0	0.9	3.0	0.9	3.9	2.7	1.2	-	-	-	
30.2	1.1	31.3	4.9	31.3	36.1	33.1	3.0	-	-	-	
7.6	0.2	7.8	-	-	-	-	-	7.6	0.2	7.8	
88.2	3.3	91.5	-	-	-	-	-	88.2	3.3	91.5	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
326.3	21.7	348.1	47.9	248.8	296.7	262.4	34.3	95.8	3.5	99.3	

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	2,067.3	1,325.6	741.7	-	-	-
ID#1 Exch (+30AF)	-	-	-	17.1	12.9	30.0
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Surplus, Spill, Allocation ⁽¹⁾	(1,770.6)	(1,063.3)	(707.3)	2,306.4	344.6	2,651.0
Surplus (+7.8AF)	-	-	-	7.6	0.2	7.8
Surplus (+91.5AF)	-	-	-	88.2	3.3	91.5
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
1,854.6	1,136.3	718.2	17.1	12.9	30.0	
1,815.8	1,104.1	711.7	17.1	12.9	30.0	
1,810.7	1,099.1	711.6	17.1	12.9	30.0	
1,806.8	1,096.4	710.4	17.1	12.9	30.0	
-	-	-	2,323.5	357.5	2,681.0	
-	-	-	2,323.5	357.5	2,681.0	
-	-	-	2,323.5	357.5	2,681.0	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **2,681.0**

Footnotes
(1) Schedule and Revisions (February 2023) - Includes Surplus Water (+3.9AF), Carryover Water Spilled (-1,774.5AF), WY 23 Allocation (+2,651AF)

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

Contract Year: 10/1/22 to: 9/30/23

Contract Entity: **Carpinteria Valley Water District**
 Update by COMB 4/30/2023

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet			Evap	Used	Total	Allocation		Allocation		Total
			M & I	Agr	Total				M & I	Agr	M & I	Agr	
Oct	3,035.0	-	114.2	155.2	269.3	33.5	269.3	302.8	132.2	170.7	-	-	-
Nov	-	-	38.5	44.6	83.2	17.7	83.2	100.9	48.3	52.6	-	-	-
Dec	-	-	13.0	8.0	21.0	7.4	21.0	28.5	17.1	11.4	-	-	-
Jan	-	-	61.3	23.0	84.3	4.2	84.3	88.6	63.6	24.9	-	-	-
Feb	-	2,813.0	89.5	54.8	144.3	6.6	144.3	150.9	93.1	57.8	-	-	-
Mar	-	-	52.3	25.5	77.8	-	-	-	-	-	52.3	25.5	77.8
Apr	-	-	128.0	97.7	225.7	-	-	-	-	-	128.0	97.7	225.7
May	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	3,035.0	2,813.0	496.8	408.8	905.6	69.5	602.2	671.7	354.3	317.4	180.3	123.2	303.5

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,035.0	1,631.7	1,403.3	-	-	-
Oct	ID#1 Exch (+20AF)	-	-	11.4	8.6	20.0
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	Surplus, Spill, Allocation ⁽¹⁾	(2,363.3)	(1,277.4)	(1,085.9)	1,406.5	1,406.5
Mar	Surplus (+77.8AF)	-	-	52.3	25.5	77.8
Apr	Surplus (+225.7AF)	-	-	128.0	97.7	225.7
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	2,732.2	1,499.5	1,232.7	11.4	8.6	20.0
Nov	2,631.3	1,451.2	1,180.0	11.4	8.6	20.0
Dec	2,602.8	1,434.1	1,168.7	11.4	8.6	20.0
Jan	2,514.3	1,370.5	1,143.8	11.4	8.6	20.0
Feb	-	-	-	1,417.9	1,415.1	2,833.0
Mar	-	-	-	1,417.9	1,415.1	2,833.0
Apr	-	-	-	1,417.9	1,415.1	2,833.0
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,833.0

Footnotes
 (1) Schedule and Revisions (February 2023) - Includes Surplus Water (+16.2AF), Carryover Water Spilled (-2,379.5AF), WY 23 Allocation (+2,813AF)

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

Contract Year: 10/1/22 to: 9/30/23

Contract Entity: **Santa Barbara Co. Water Agency**
 Update by COMB 4/30/2023

Month	CARRYOVER WATER		WATER USE CHARGED				WATER USE CHARGED							
	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				WATER USE CHARGED							
			Acre-feet				Allocation							
			Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	35,586.3	-	0.1	1,443.3	368.4	1,811.6	400.7	1,811.6	2,212.3	1,767.5	444.8	-	-	-
Nov	-	-	0.0	937.0	163.4	1,100.4	215.4	1,100.4	1,315.7	1,111.4	204.3	-	-	-
Dec	-	-	0.0	573.9	36.6	610.5	89.4	610.5	699.9	648.1	51.9	-	-	-
Jan	-	-	0.0	816.4	44.0	860.4	51.1	860.4	911.5	857.5	53.9	-	-	-
Feb	-	25,714.0	0.0	1,231.1	120.7	1,351.7	80.5	1,351.7	1,432.2	1,297.8	134.4	-	-	-
Mar	-	-	0.0	1,356.8	90.0	1,446.8	-	-	-	-	-	1,356.8	90.0	1,446.8
Apr	-	-	0.0	1,632.8	192.0	1,824.8	-	-	-	-	-	1,632.8	192.0	1,824.8
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	35,586.3	25,714.0	0.2	7,991.2	1,015.0	9,006.1	837.1	5,734.6	6,571.7	5,682.3	889.4	2,989.6	282.0	3,271.5

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

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	35,586.3	28,774.6	6,811.7	-	-	-
Oct	(126.0)	(71.8)	(54.2)	84.7	41.3	126.0
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	(28,888.6)	(23,020.5)	(5,868.2)	19,373.8	6,340.2	25,714.0
Mar	-	-	-	1,356.8	90.0	1,446.8
Apr	-	-	-	1,732.8	192.0	1,924.8
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Allocation		Allocation		Total	
		M & I	Agr	M & I	Agr		
Oct	1.6	33,248.0	26,935.3	6,312.7	84.7	41.3	126.0
Nov	1.4	31,932.3	25,823.9	6,108.4	84.7	41.3	126.0
Dec	0.8	31,232.4	25,175.9	6,056.5	84.7	41.3	126.0
Jan	0.8	30,320.9	24,318.3	6,002.6	84.7	41.3	126.0
Feb	-	-	-	-	19,458.5	6,381.5	25,840.0
Mar	1.0	-	-	-	19,458.5	6,381.5	25,840.0
Apr	1.9	-	-	-	19,558.5	6,381.5	25,940.0
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 25,940.0

Footnotes

(1) Schedule and Revisions (February 2023) - Includes Surplus Water (+153.5AF), Carryover Water Spilled (-29,042.1AF), WY 23 Allocation (+25,714AF)



May 2023

Day ¹	Lake Cachuma				Rainfall		Evaporation ³		CCWA Inflow	Release					Computed Inflow ⁵	
	Elevation	Storage ²	Change in Storage	Surface Area	PP	PPAF	EV	EVAF		QICCWA	Park Use	Tunnel	Hilton Creek	WR 89-18		Outlet ⁴
SHEF Tag→	HL	LS	LC													
	ft	acre-feet	acre-feet	acres	inches	acre-feet	inches	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet
30	753.71	195,209														
1	753.74	195,303	94.2	3,149.4	-	-	0.200	42.52	-	-	68.83	12.44	-	340.00	-	558.03
2	753.63	194,957	(345.6)	3,145.8	-	-	0.070	14.86	-	-	59.20	12.50	-	342.00	-	82.99
3	753.69	195,146	188.5	3,147.8	-	-	0.200	42.50	-	-	49.13	12.50	-	343.00	-	635.62
4	753.77	195,397	251.3	3,150.4	0.28	73.5	0.070	14.89	-	-	46.97	12.50	-	375.00	-	627.17
5	753.82	195,554	157.1	3,152.1	0.02	5.3	0.110	23.40	-	-	43.95	12.51	-	391.00	-	622.69
6	753.85	195,649	94.2	3,153.0	-	-	0.190	40.44	-	-	44.24	12.54	-	391.00	-	582.47
7	753.86	195,680	31.4	3,153.4	-	-	0.220	46.83	-	-	43.86	12.61	-	395.00	-	529.71
8	753.86	195,680	-	3,153.4	-	-	0.220	46.83	-	-	42.80	12.53	-	388.00	-	490.16
9	753.85	195,649	(31.4)	3,153.0	-	-	0.200	42.57	-	-	65.38	13.64	-	390.00	-	480.17
10	753.83	195,586	(62.8)	3,152.4	-	-	0.140	29.79	-	-	55.46	13.93	-	390.00	-	426.35
11	753.83	195,586	-	3,152.4	-	-	0.220	46.81	-	-	70.70	13.96	-	342.00	-	473.47
12	753.84	195,617	31.4	3,152.7	-	-	0.170	36.18	-	-	68.59	13.90	-	339.00	-	489.08
13	753.83	195,586	(31.4)	3,152.4	-	-	0.200	42.56	-	-	68.16	13.93	-	340.00	-	433.23
14	753.81	195,523	(62.8)	3,151.7	-	-	0.270	57.44	-	-	70.36	13.99	-	327.00	-	405.96
15	753.81	195,523	-	3,151.7	-	-	0.220	46.80	0.01	-	59.34	13.92	-	285.00	-	405.05
16	753.81	195,523	-	3,151.7	-	-	0.190	40.42	1.85	-	53.78	13.94	-	278.00	-	384.29
17	753.80	195,492	(31.4)	3,151.4	-	-	0.120	25.53	0.26	-	54.02	13.96	-	292.00	-	353.83
18	753.80	195,492	-	3,151.4	-	-	0.350	74.45	-	-	54.35	13.96	-	232.00	-	374.77
19	753.80	195,492	-	3,151.4	-	-	0.250	53.18	-	-	52.49	13.96	-	204.00	-	323.63
Total			282.74		0.30	78.76	3.610	767.99	2.12	-	1,071.63	253.22	-	6,384.00	-	8,678.70
Minimum	753.63	194,957	(345.57)	3,145.82	-	-	0.070	14.86	-	-	42.80	12.44	-	204.00	-	82.99
Average	753.80	195,497	14.88	3,151.46	0.02	4.15	0.190	40.42	0.11	-	56.40	13.33	-	336.00	-	456.77
Maximum	753.86	195,680	251.32	3,153.37	0.28	73.51	0.350	74.45	1.85	-	70.70	13.99	-	395.00	-	635.62

Comments

1. Data based on 24-hour period ending 0800
2. Storage volume based on 2021 bathymetric survey.
3. Evaporation in inches is the measured pan evaporation. Calculated evaporation in acre feet uses the May pan factor: 81%
4. Indicated outlet release includes any leakage around gates.
5. Computed inflow is the sum of change in storage, releases, and evaporation minus precip on the reservoir surface and CCWA inflow.



**Santa Barbara County Parks Division,
Cachuma Lake Recreation Area
Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: April 2023**



Cachuma Lake Recreation Area Launch Data -- April 2023		
Inspection Data		
Total Vessels Entering Park	1,171	
Total Vessels Launched	1,154	
Total Vessels Quarantined	17	
Returning (Tagged) Boats Launched	870	75%
Kayak/Canoe: Inspected, launched	284	25%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	17	
Quarantined 14 days	*	
Quarantined 30 days	17	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	6	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	17	
Demographic Data		
Quarantined from infected county	6	
Quarantined from SB County	11	
Quarantined from uninfected co	0	

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

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

* These conditions are no longer being tracked.

EARLY DETECTION MONITORING PROGRAM SUMMARY

Summary: No Dreissenid Mussels were detected, nor Aquatic Invasive Species of any kind.

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

Plankton Tow Inspection Date and Time: 2023.04.27, 1 p.m.

Artificial Substrate & Surface Survey Date and Time: 2023.04.27; 11:45 a.m. and 2023.04.27, 12:30 p.m.

Method: 5 Artificial Substrate Stations; 24 meters/78.74 linear feet of line as well as ramp, dock, anchor, etc.

Surveyors: COSB, Parks Division Quagga Grant Staff (P. Medel).

Lake elevation: Max feet: 753.00, current 753.55; Max acre-feet: 192,978, current: 194,738;

Capacity: 99.9% At of the end of the survey month.