



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

**Monday, March 28, 2022  
1:00 P.M.**

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**BY TELECONFERENCE**

**NOTICE:** Pursuant to California Government Code sections 54953(b)(1), (b)(2), (e)(1) and (e)(3) (AB 361), members of the Cachuma Operation & Maintenance Board (COMB) Board of Directors, staff, and members of the public will participate in this meeting electronically by video and/or teleconference, as described below.

**HOW TO OBSERVE THE MEETING**

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

**Join via video conference:**

<https://us02web.zoom.us/j/84737753643?pwd=K2VvS1hUbGhiWnJ3YTlV5WkY4MUFQQT09>

Passcode: 425012

**Join via teleconference:**

US: +1 669 900 6833 Webinar ID: 847 3775 3643 Passcode: 425012

**HOW TO MAKE A PUBLIC COMMENT**

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

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

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

**AMERICANS WITH DISABILITIES ACT**

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

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

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**Monday, March 28, 2022**

**1:00 PM**

**AGENDA**

**NOTICE:** This Meeting shall be conducted through remote access as authorized and in accordance with Government Code section 54953 and the California Governor's Executive Orders N-08-21, N-15-21 and as amended by AB 361.

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 February 28, 2022 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:
  - Administrative Committee Meeting – March 15, 2022
  - Operations Committee Meeting – March 17, 2022
5. **RESOLUTION NO. 746 – CONFIRMATION OF LOCAL EMERGENCY - ACKNOWLEDGEMENT OF GOVERNOR NEWSOM'S DECLARED STATE OF EMERGENCY (HEALTH AND SAFETY)**  
Action: Recommend adoption by motion and roll call vote of the Board
6. **RESOLUTION NO. 747 - COMB 2022 SUSTAINABILITY PLAN**  
Action: Recommend adoption by motion and roll call vote of the Board
7. **ACWA/JPIA COMMITMENT TO EXCELLENCE (C2E) PROGRAM** Action: Recommend approval by motion and roll call vote of the Board
8. **INFRASTRUCTURE IMPROVEMENT PLAN - SCADA SYSTEM UPGRADE PROFESSIONAL SERVICES AGREEMENT**  
Action: Recommend approval by motion and roll call vote of the Board

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9. **BIPARTISAN INFRASTRUCTURE LAW – USBR REIMBURSABLE FUNDING**  
Action: Receive information on the Bipartisan Infrastructure Law and provide direction to staff, as appropriate
10. **GENERAL MANAGER REPORT**  
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
  - Administration
  - Meetings
11. **ENGINEER’S REPORT**  
Receive verbal information from the COMB Engineer, including but not limited to the following:
  - Climate Conditions
  - Lake Elevation Projections
  - Ortega Effluent Pipeline Repair
  - Infrastructure Improvement Projects
12. **OPERATIONS DIVISION REPORT**  
Receive verbal information regarding the Operations Division, including but not limited to the following:
  - Lake Cachuma Operations
  - Operation and Maintenance Activities
13. **FISHERIES DIVISION REPORT**  
Receive information from the Fisheries Division Manager, including, but not limited to the following:
  - LSYR Steelhead Monitoring Elements
  - Tributary Project Updates
  - Surcharge Water Accounting
  - Reporting/Outreach/Training
14. **PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**  
Receive information regarding the Lake Cachuma Oak Tree Program including but not limited to the following:
  - Maintenance and Monitoring
15. **MONTHLY CACHUMA PROJECT REPORTS**  
Receive information regarding the Cachuma Project, including but not limited to the following:
  - a. Cachuma Water Reports
  - b. Cachuma Reservoir Current Conditions
  - c. Lake Cachuma Quagga Survey
16. **DIRECTORS’ REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**
17. **MEETING SCHEDULE**
  - **Regular Board Meeting – April 25, 2022 at 1:00 PM**
  - **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**
18. **COMB ADJOURNMENT**

#### NOTICE TO PUBLIC

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

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

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

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

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

**MINUTES OF REGULAR MEETING  
OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD  
Monday, February 28, 2022  
1:00 PM**

**MINUTES**

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

The regular meeting of the Board of Directors was called to order by President Holcombe at 1:00 PM.

All attendees participated electronically pursuant to California Government Code sections 54953(b)(1), (b)(2), (e)(1) and (e)(3) (AB 361).

**Directors Present:**

Polly Holcombe, Carpinteria Valley Water District  
Kristen Sneddon, City of Santa Barbara  
Lauren Hanson, Goleta Water District  
Cori Hayman, Montecito Water District (arrival approximately 1:10 PM)

**General Counsel Present:**

William Carter, Musick, Peeler, Garrett, LLP

**Staff Present:**

|   |  |
|---|--|
| Janet Gingras, General Manager                    | Tim Robinson, Fisheries Division Manager |
| Edward Lyons, Administrative Manager/CFO          | Shane King, Operations Supervisor        |
| Joel Degner, Engineer/Operations Division Manager | Dorothy Turner, Administrative Assistant |

**Others Present:**

|   |   |
|---|---|
| Joshua Haggmark, City of Santa Barbara  | Kevin Walsh, SYRWCD ID #1                     |
| Cathy Taylor, City of Santa Barbara     | Matt Young, Santa Barbara County Water Agency |
| Stephen Torigiani, Young Wooldridge LLP |   |

**2. PUBLIC COMMENT**

There was no public comment.

**3. CONSENT AGENDA**

- a. Minutes of January 10, 2022 Special Board Meeting
- b. Minutes of January 24, 2022 Regular Board Meeting
- c. Investment of Funds
  - Financial Reports
  - Investment Reports
- d. Review of Paid Claims

Ms. Gingras introduced the Consent Agenda and requested that Mr. Lyons comment on the Financial Reports. Mr. Lyons reviewed revenues and expenditures of note, including payments to Core & Main, Rain for Rent and the USGS Stream Gauge Program.

Ms. Gingras solicited a motion for Item 1.a. of the Consent Agenda which was provided by Director Hanson and seconded by Director Sneddon. The motion carried with a vote of five in favor.

**Ayes:** Sneddon, Hanson, Holcombe

**Nays:**

**Absent:** Hayman

**Abstain:**

Director Hanson put forward a motion to approve the remaining Consent Agenda items. Director Sneddon seconded the motion which carried with a vote of five in favor.

**Ayes:** Sneddon, Hanson, Holcombe

**Nays:**

**Absent:** Hayman

**Abstain:**

#### 4. VERBAL REPORTS FROM BOARD COMMITTEES

- ***Fisheries Committee Meeting – February 10, 2022*** – Director Hanson summarized the information provided at the Fisheries committee meeting. She noted that the stream gauge item is number seven on this agenda and is forwarded to the Board with full support. As well, Director Hanson commented that the now up-to-date Annual Monitoring Reports are very valuable resources that document COMB’s heroic efforts to maintain the steelhead habitats in the Lower Santa Ynez River.

#### 5. RESOLUTION NO. 744 – CONFIRMATION OF LOCAL EMERGENCY - ACKNOWLEDGEMENT OF GOVERNOR NEWSOM’S DECLARED STATE OF EMERGENCY (HEALTH AND SAFETY)

Ms. Gingras presented the resolution as a routine item for approval. Director Sneddon motioned to approve the resolution, followed by a second from Director Hanson. The motion carried with a vote of five in favor.

**Ayes:** Sneddon, Hanson, Holcombe

**Nays:**

**Absent:** Hayman

**Abstain:**

#### 6. RESOLUTION NO. 745 - RATIFICATION OF EMERGENCY CONTRACTS - ORTEGA RESERVOIR REPAIR

Ms. Gingras presented the resolution and briefly recapped the circumstances that required it to be put forth for approval. Mr. Degner then provided a detailed report of the emergency work accomplished to mitigate the effluent pipeline leak at Ortega Reservoir. He noted it was a difficult repair that presented various challenges that COMB and Montecito Water District staff addressed. Mr. Degner outlined the remaining tasks required to complete the repair of the pipeline. He stated that emergency contracts had been executed with Flowers & Associates in the amount of \$15,000 and Cushman Contracting in the amount of \$220,000. Further contracts will be executed with HydraTech Field Services and Houston and Harris. He addressed various concerns, including budgetary and IIP issues and fielded questions from the Board.



Director Hayman provided a motion to approve the two emergency contracts. Director Sneddon seconded the motion which carried unanimously with a vote of six in favor.

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

**Nays:**

**Absent:**

**Abstain:**

## **7. PROPOSED USGS STREAM GAUGE EXPENDITURES AND CONTRACT AMENDMENT**

Mr. Robinson reviewed the history of required flow measurement at the Highway 154 Bridge, including an evaluation of the current site and its limitations. Noting that a new site approved by Reclamation and the United States Geological Survey (USGS) has been identified to measure stream flow that presents better conditions for accuracy and water quality monitoring, Mr. Robinson described the equipment that would be deployed and its construction costs. He advised that a new contract with the USGS will be required with an increase in annual costs and estimated that the project could be in place by the end of summer 2022.

Director Hanson motioned to approve the project expenditures and contract amendment. Director Sneddon seconded the motion which carried unanimously with a vote of six in favor.

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

**Nays:**

**Absent:**

**Abstain:**

## **8. GENERAL MANAGER REPORT**

- Meetings
- Operations

Ms. Gingras recapped the General Manager report, emphasizing increased vigilance that COMB and the IT consultant have undertaken, in light of the current situation in Eastern Europe, to defend against any potential malicious attacks perpetrated on COMB's computer networks. As well, she reported the status of IRWMP Round Two funding and its impact on the Secured Pipeline Project. Noting that sources of funding for the secured pipeline continue to be pursued, she indicated that the pipeline project is still scheduled to move forward, pending impacts from rainfall. She touched briefly on the Santa Barbara County Operational Area Emergency Managers' Meeting and the Ortega Reservoir emergency repair. Ms. Gingras fielded questions and requests from the Board.

## **9. ENGINEER'S REPORT**

- Climate Conditions
- Lake Elevation Projections
- Infrastructure Improvement Projects

Mr. Degner provided the current climate conditions and forecasts, noting extremely dry conditions. He advised that Emergency Pumping System could be activated as early as November, 2022, depending upon conservative projections. Mr. Degner reported that the La Mirada Isolation Valve project is underway and that he plans to coordinate with stakeholders to take Ortega Reservoir offline. Finally, Mr. Degner, noted that water demands are higher than usual, due to lack of rain.

## **10. OPERATIONS DIVISION REPORT**

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. King presented the Operations Division report, noting that most of staff time had been spent in addressing the Ortega Reservoir Effluent Pipeline leak. He reported that manhole covers, along the Highway 192 Project, had been replaced resulting in a match of the sizes of the openings with the vault covers. Mr. King advised that normal valve exercising and calibrations had taken place, as well as work on the La Mirada Isolation Valve and responses to Dig Alerts.

## **11. FISHERIES DIVISION REPORT**

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

Mr. Robinson presented the Fisheries Division report, advising that, while flows to Hilton Creek were below target due to lake elevation, flows were still adequate to maintain the fishery. He reported that beaver dam surveys were complete and redd surveys continue. Migrant trapping is in place only at Hilton Creek where spawning is under way. Finally, Mr. Robinson updated the Board concerning PIT Tag monitoring with the handheld device as well as the upcoming installation of the PIT Tag station at Hilton Creek.

## **12. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree Program report, advising that COMB is on target for completion of the project, news which was welcomed by the Board. He reported that irrigation continues due to dry conditions. Inventory and GPS tagging have been delayed as staff time has been occupied with watering efforts.

## **13. MONTHLY CACHUMA PROJECT REPORTS**

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

Ms. Gingras had no comments on the January water reports.

## **14. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

There were no agenda requests from directors.

## **15. MEETING SCHEDULE**

- **Regular Board Meeting – March 28, 2022 at 1:00 PM**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**17. COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 2:48 PM.

Respectfully submitted,

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

|   |                   |
|---|-------------------|
|   | <i>Approved</i>   |
| √ | <i>Unapproved</i> |

**APPROVED:**

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

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**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of February 28, 2022  
UNAUDITED

February 28, 2022

**ASSETS**

**Current Assets**

**Checking/Savings**

**Trust Funds**

1210 · Warren Act Trust Fund 170,715.72

1220 · Renewal Fund 74,033.06

**Total Trust Funds** 244,748.78

1050 · General Fund 502,499.16

1100 · Revolving Fund 257,173.19

**Total Checking/Savings** 1,004,421.13

**Accounts Receivable**

1301 · Accounts Receivable 1,570.00

**Total Accounts Receivable** 1,570.00

**Other Current Assets**

1010 · Petty Cash 500.00

1200 · LAIF 2,016,358.56

1303 · Bradbury SOD Act Assessments Receivable 213,957.00

1304 · Lauro Dam SOD Assessments Receivable 32,837.16

1400 · Prepaid Insurance 10,656.72

1900 · Deposits 236,109.85

**Total Other Current Assets** 2,510,419.29

**Total Current Assets** 3,516,410.42

**Fixed Assets**

1500 · Vehicles 468,728.36

1505 · Office Furniture & Equipment 236,471.87

1510 · Mobile Offices 97,803.34

1515 · Field Equipment 523,998.79

1525 · Paving 38,351.00

1550 · Accumulated Depreciation (1,218,759.00)

**Total Fixed Assets** 146,594.36

**Other Assets**

1910 · Long Term Bradbury SOD Act Assessments Receivable 4,057,372.07

1920 · Long Term Lauro SOD Act Assessments Receivable 739,312.90

1922 · Deferred Outflow of Resources (GASB 68) 497,209.00

1923 · Deferred Outflow (GASB 75) 870,598.00

**Total Other Assets** 6,164,491.97

**TOTAL ASSETS** 9,827,496.75

**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of February 28, 2022  
**UNAUDITED**

**February 28, 2022**

**LIABILITIES & NET POSITION**

**Liabilities**

**Current Liabilities**

**Accounts Payable**

2200 · Accounts Payable

59,337.91

**Total Accounts Payable**

59,337.91

**Other Current Liabilities**

2505 · Accrued Wages

20,168.77

2550 · Vacation/Sick

202,762.73

2561 · Bradbury Dam SOD Act

213,956.99

2563 · Lauro Dam SOD Act

32,837.16

2565 · Accrued Interest SOD Act

46,692.00

2590 · Deferred Revenue

244,748.78

**Total Other Current Liabilities**

761,166.43

**Total Current Liabilities**

820,504.34

**Long Term Liabilities**

2602 · Long Term SOD Act Liability-Bradbury

4,057,362.07

2603 · Long Term SOD Act Liability - Lauro

739,312.90

2604 · OPEB Long Term Liability

5,789,486.00

2610 · Net Pension Liability (GASB 68)

2,078,203.00

2611 · Deferred Inflow of Resources (GASB 68)

103,202.00

2612 · Deferred Inflow of Resources (GASB 75)

588,356.00

**Total Long Term Liabilities**

13,355,921.97

**Total Liabilities**

14,176,426.31

**Net Position**

3000 · Opening Balance Net Position

(5,296,580.05)

3901 · Retained Net Assets

(521,650.49)

**Net Surplus / Deficit**

1,469,300.98

**Total Net Position**

(4,348,929.56)

**TOTAL LIABILITIES & NET POSITION**

**9,827,496.75**

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2021 - June 2022

|  | Fisheries              |                        |                        |               | Operations             |                        |                        |               | TOTAL                  |                        |                          |               |
|--|------------------------|------------------------|------------------------|---------------|------------------------|------------------------|------------------------|---------------|------------------------|------------------------|--------------------------|---------------|
|  | Jul '21 - Feb 22       | Budget                 | \$ Over Budget         | % of Budget   | Jul '21 - Feb 22       | Budget                 | \$ Over Budget         | % of Budget   | Jul '21 - Feb 22       | Budget                 | \$ Over Budget           | % of Budget   |
| <b>Revenue</b>                                       |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| <b>3000 REVENUE</b>                                  |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| 3001 · O&M Budget (Qtrly Assessments)                | \$ 772,576.30          | \$ 1,073,752.00        | \$ (301,175.70)        | 71.95%        | \$ 2,949,260.00        | \$ 3,865,221.00        | \$ (915,961.00)        | 76.3%         | \$ 3,721,836.30        | \$ 4,938,973.00        | \$ (1,217,136.70)        | 75.36%        |
| 3006 · Warren Act                                    | 43,086.00              | 43,086.00              | 0.00                   | 100.0%        | 0.00                   |                        |                        |               | 43,086.00              | 43,086.00              | 0.00                     | 100.0%        |
| 3007 · Renewal Fund                                  | 120,996.46             | 220,175.00             | -99,178.54             | 54.96%        | 0.00                   |                        |                        |               | 120,996.46             | 220,175.00             | -99,178.54               | 54.96%        |
| 3009 · EPFP Loan (Qtrly Assessments)                 | 0.00                   |                        |                        |               | 38,620.56              | 0.00                   | 38,620.56              | 100.0%        | 38,620.56              | 0.00                   | 38,620.56                | 100.0%        |
| 3010 · Interest Income                               | 0.00                   |                        |                        |               | 2,278.99               | 0.00                   | 2,278.99               | 100.0%        | 2,278.99               | 0.00                   | 2,278.99                 | 100.0%        |
| 3014 · Non-Member Agency Revenue                     | 7,300.00               | 0.00                   | 7,300.00               | 100.0%        | 0.00                   |                        |                        |               | 7,300.00               | 0.00                   | 7,300.00                 | 100.0%        |
| 3021 · Grant Income                                  | 0.00                   |                        |                        |               | 510.00                 | 0.00                   | 510.00                 | 100.0%        | 510.00                 | 0.00                   | 510.00                   | 100.0%        |
| 3035 · Cachuma Project Betterment Fund               | 90,000.00              | 90,000.00              | 0.00                   | 100.0%        | 0.00                   |                        |                        |               | 90,000.00              | 90,000.00              | 0.00                     | 100.0%        |
| <b>Total 3000 REVENUE</b>                            | <b>\$ 1,033,958.76</b> | <b>\$ 1,427,013.00</b> | <b>\$ (393,054.24)</b> | <b>72.46%</b> | <b>\$ 2,990,669.55</b> | <b>\$ 3,865,221.00</b> | <b>\$ (874,551.45)</b> | <b>77.37%</b> | <b>\$ 4,024,628.31</b> | <b>\$ 5,292,234.00</b> | <b>\$ (1,267,605.69)</b> | <b>76.05%</b> |
| <b>Expense</b>                                       |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| 3100 · LABOR - OPERATIONS                            | \$ -                   | \$ -                   | \$ -                   | 0.0%          | \$ 573,846.50          | \$ 1,023,887.00        | \$ (450,040.50)        | 56.05%        | \$ 573,846.50          | \$ 1,023,887.00        | \$ (450,040.50)          | 56.05%        |
| <b>3200 VEH &amp; EQUIPMENT</b>                      |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| 3201 · Vehicle/Equip Mtce                            | 0.00                   |                        |                        |               | 21,406.16              | 35,000.00              | -13,593.84             | 61.16%        | 21,406.16              | 35,000.00              | -13,593.84               | 61.16%        |
| 3202 · Fixed Capital                                 | 0.00                   |                        |                        |               | 1,761.73               | 65,000.00              | -63,238.27             | 2.71%         | 1,761.73               | 65,000.00              | -63,238.27               | 2.71%         |
| 3203 · Equipment Rental                              | 0.00                   |                        |                        |               | 0.00                   | 5,000.00               | -5,000.00              | 0.0%          | 0.00                   | 5,000.00               | -5,000.00                | 0.0%          |
| 3204 · Miscellaneous                                 | 0.00                   |                        |                        |               | 1,266.88               | 10,000.00              | -8,733.12              | 12.67%        | 1,266.88               | 10,000.00              | -8,733.12                | 12.67%        |
| <b>Total 3200 VEH &amp; EQUIPMENT</b>                | <b>0.00</b>            |                        |                        |               | <b>24,434.77</b>       | <b>115,000.00</b>      | <b>-90,565.23</b>      | <b>21.25%</b> | <b>24,434.77</b>       | <b>115,000.00</b>      | <b>-90,565.23</b>        | <b>21.25%</b> |
| <b>3300 · CONTRACT LABOR</b>                         |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| 3301 · Conduit, Meter, Valve & Misc                  | 0.00                   |                        |                        |               | 8,430.00               | 20,000.00              | -11,570.00             | 42.15%        | 8,430.00               | 20,000.00              | -11,570.00               | 42.15%        |
| 3302 · Buildings & Roads                             | 0.00                   |                        |                        |               | 35,098.64              | 20,000.00              | 15,098.64              | 175.49%       | 35,098.64              | 20,000.00              | 15,098.64                | 175.49%       |
| 3303 · Reservoirs                                    | 0.00                   |                        |                        |               | 32,076.54              | 60,000.00              | -27,923.46             | 53.46%        | 32,076.54              | 60,000.00              | -27,923.46               | 53.46%        |
| 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%          |
| <b>Total 3300 · CONTRACT LABOR</b>                   | <b>0.00</b>            |                        |                        |               | <b>75,605.18</b>       | <b>130,000.00</b>      | <b>-54,394.82</b>      | <b>58.16%</b> | <b>75,605.18</b>       | <b>130,000.00</b>      | <b>-54,394.82</b>        | <b>58.16%</b> |
| <b>3400 · MATERIALS &amp; SUPPLIES</b>               |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| 3401 · Conduit, Meter, Valve & Misc                  | 0.00                   |                        |                        |               | 67,069.40              | 65,000.00              | 2,069.40               | 103.18%       | 67,069.40              | 65,000.00              | 2,069.40                 | 103.18%       |
| 3402 · Buildings & Roads                             | 0.00                   |                        |                        |               | 11,852.27              | 15,000.00              | -3,147.73              | 79.02%        | 11,852.27              | 15,000.00              | -3,147.73                | 79.02%        |
| 3403 · Reservoirs                                    | 0.00                   |                        |                        |               | 3,078.09               | 5,000.00               | -1,921.91              | 61.56%        | 3,078.09               | 5,000.00               | -1,921.91                | 61.56%        |
| <b>Total 3400 · MATERIALS &amp; SUPPLIES</b>         | <b>0.00</b>            |                        |                        |               | <b>81,999.76</b>       | <b>85,000.00</b>       | <b>-3,000.24</b>       | <b>96.47%</b> | <b>81,999.76</b>       | <b>85,000.00</b>       | <b>-3,000.24</b>         | <b>96.47%</b> |
| <b>3500 · OTHER EXPENSES</b>                         |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| 3501 · Utilities                                     | 0.00                   |                        |                        |               | 4,626.38               | 7,000.00               | -2,373.62              | 66.09%        | 4,626.38               | 7,000.00               | -2,373.62                | 66.09%        |
| 3502 · Uniforms                                      | 0.00                   |                        |                        |               | 665.00                 | 5,750.00               | -5,085.00              | 11.57%        | 665.00                 | 5,750.00               | -5,085.00                | 11.57%        |
| 3503 · Communications                                | 0.00                   |                        |                        |               | 6,903.21               | 15,800.00              | -8,896.79              | 43.69%        | 6,903.21               | 15,800.00              | -8,896.79                | 43.69%        |
| 3504 · USA & Other Services                          | 0.00                   |                        |                        |               | 3,454.60               | 4,750.00               | -1,295.40              | 72.73%        | 3,454.60               | 4,750.00               | -1,295.40                | 72.73%        |
| 3505 · Miscellaneous                                 | 0.00                   |                        |                        |               | 7,475.19               | 12,000.00              | -4,524.81              | 62.29%        | 7,475.19               | 12,000.00              | -4,524.81                | 62.29%        |
| 3506 · Training                                      | 0.00                   |                        |                        |               | 60.00                  | 3,000.00               | -2,940.00              | 2.0%          | 60.00                  | 3,000.00               | -2,940.00                | 2.0%          |
| <b>Total 3500 · OTHER EXPENSES</b>                   | <b>0.00</b>            |                        |                        |               | <b>23,184.38</b>       | <b>48,300.00</b>       | <b>-25,115.62</b>      | <b>48.0%</b>  | <b>23,184.38</b>       | <b>48,300.00</b>       | <b>-25,115.62</b>        | <b>48.0%</b>  |
| 4100 · LABOR - FISHERIES                             | 456,247.54             | 755,458.00             | -299,210.46            | 60.39%        | 0.00                   |                        |                        |               | 456,247.54             | 755,458.00             | -299,210.46              | 60.39%        |
| <b>4200 · VEHICLES &amp; EQUIP - FISHERIES</b>       |                        |                        |                        |               |                        |                        |                        |               |                        |                        |                          |               |
| 4270 · Vehicle/Equip Mtce                            | 11,168.95              | 30,000.00              | -18,831.05             | 37.23%        | 0.00                   |                        |                        |               | 11,168.95              | 30,000.00              | -18,831.05               | 37.23%        |
| 4280 · Fixed Capital                                 | 18,524.12              | 50,000.00              | -31,475.88             | 37.05%        | 0.00                   |                        |                        |               | 18,524.12              | 50,000.00              | -31,475.88               | 37.05%        |
| 4290 · Miscellaneous                                 | 7.53                   | 2,500.00               | -2,492.47              | 0.3%          | 0.00                   |                        |                        |               | 7.53                   | 2,500.00               | -2,492.47                | 0.3%          |
| <b>Total 4200 · VEHICLES &amp; EQUIP - FISHERIES</b> | <b>29,700.60</b>       | <b>82,500.00</b>       | <b>-52,799.40</b>      | <b>36.0%</b>  | <b>0.00</b>            |                        |                        |               | <b>29,700.60</b>       | <b>82,500.00</b>       | <b>-52,799.40</b>        | <b>36.0%</b>  |

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2021 - June 2022

|  | Fisheries        |                  |                   |                | Operations        |                   |                    |               | TOTAL             |                   |                    |                |
|--|------------------|------------------|-------------------|----------------|-------------------|-------------------|--------------------|---------------|-------------------|-------------------|--------------------|----------------|
|  | Jul '21 - Feb 22 | Budget           | \$ Over Budget    | % of Budget    | Jul '21 - Feb 22  | Budget            | \$ Over Budget     | % of Budget   | Jul '21 - Feb 22  | Budget            | \$ Over Budget     | % of Budget    |
| <b>4220 · CONTRACT LABOR - FISHERIES</b>           |                  |                  |                   |                |                   |                   |                    |               |                   |                   |                    |                |
| 4221 · Meters & Valves                             | 0.00             | 3,000.00         | -3,000.00         | 0.0%           | 0.00              |                   |                    |               | 0.00              | 3,000.00          | -3,000.00          | 0.0%           |
| 4222 · Fish Projects Maintenance                   | 6,075.54         | 16,100.00        | -10,024.46        | 37.74%         | 0.00              |                   |                    |               | 6,075.54          | 16,100.00         | -10,024.46         | 37.74%         |
| <b>Total 4220 · CONTRACT LABOR - FISHERIES</b>     | <b>6,075.54</b>  | <b>19,100.00</b> | <b>-13,024.46</b> | <b>31.81%</b>  | <b>0.00</b>       |                   |                    |               | <b>6,075.54</b>   | <b>19,100.00</b>  | <b>-13,024.46</b>  | <b>31.81%</b>  |
| <b>4300 · MATERIALS/SUPPLIES - FISHERIES</b>       |                  |                  |                   |                |                   |                   |                    |               |                   |                   |                    |                |
| 4390 · Miscellaneous                               | 2,054.30         | 7,000.00         | -4,945.70         | 29.35%         | 0.00              |                   |                    |               | 2,054.30          | 7,000.00          | -4,945.70          | 29.35%         |
| <b>Total 4300 · MATERIALS/SUPPLIES - FISHERIES</b> | <b>2,054.30</b>  | <b>7,000.00</b>  | <b>-4,945.70</b>  | <b>29.35%</b>  | <b>0.00</b>       |                   |                    |               | <b>2,054.30</b>   | <b>7,000.00</b>   | <b>-4,945.70</b>   | <b>29.35%</b>  |
| <b>4500 · OTHER EXPENSES - FISHERIES</b>           |                  |                  |                   |                |                   |                   |                    |               |                   |                   |                    |                |
| 4502 · Uniforms                                    | 3,735.31         | 3,500.00         | 235.31            | 106.72%        | 0.00              |                   |                    |               | 3,735.31          | 3,500.00          | 235.31             | 106.72%        |
| <b>Total 4500 · OTHER EXPENSES - FISHERIES</b>     | <b>3,735.31</b>  | <b>3,500.00</b>  | <b>235.31</b>     | <b>106.72%</b> | <b>0.00</b>       |                   |                    |               | <b>3,735.31</b>   | <b>3,500.00</b>   | <b>235.31</b>      | <b>106.72%</b> |
| <b>4999 · GENERAL &amp; ADMINISTRATIVE</b>         |                  |                  |                   |                |                   |                   |                    |               |                   |                   |                    |                |
| 5000 · Director Fees                               | 0.00             |                  |                   |                | 5,328.70          | 12,400.00         | -7,071.30          | 42.97%        | 5,328.70          | 12,400.00         | -7,071.30          | 42.97%         |
| 5001 · Director Mileage                            | 0.00             |                  |                   |                | 0.00              | 600.00            | -600.00            | 0.0%          | 0.00              | 600.00            | -600.00            | 0.0%           |
| 5100 · Legal                                       | 0.00             |                  |                   |                | 30,118.70         | 75,000.00         | -44,881.30         | 40.16%        | 30,118.70         | 75,000.00         | -44,881.30         | 40.16%         |
| 5101 · Audit                                       | 0.00             |                  |                   |                | 14,237.61         | 22,750.00         | -8,512.39          | 62.58%        | 14,237.61         | 22,750.00         | -8,512.39          | 62.58%         |
| 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             |                  |                   |                | 31,781.51         | 33,326.00         | -1,544.49          | 95.37%        | 31,781.51         | 33,326.00         | -1,544.49          | 95.37%         |
| 5310 · Postage/Office Exp                          | 0.00             |                  |                   |                | 3,711.95          | 6,000.00          | -2,288.05          | 61.87%        | 3,711.95          | 6,000.00          | -2,288.05          | 61.87%         |
| 5311 · Office Equip/Leases                         | 0.00             |                  |                   |                | 5,087.68          | 13,440.00         | -8,352.32          | 37.86%        | 5,087.68          | 13,440.00         | -8,352.32          | 37.86%         |
| 5312 · Misc Admin Expenses                         | 0.00             |                  |                   |                | 9,836.29          | 14,000.00         | -4,163.71          | 70.26%        | 9,836.29          | 14,000.00         | -4,163.71          | 70.26%         |
| 5313 · Communications                              | 0.00             |                  |                   |                | 6,652.25          | 6,500.00          | 152.25             | 102.34%       | 6,652.25          | 6,500.00          | 152.25             | 102.34%        |
| 5314 · Utilities                                   | 0.00             |                  |                   |                | 5,750.17          | 9,737.00          | -3,986.83          | 59.06%        | 5,750.17          | 9,737.00          | -3,986.83          | 59.06%         |
| 5315 · Membership Dues                             | 0.00             |                  |                   |                | 10,843.75         | 9,700.00          | 1,143.75           | 111.79%       | 10,843.75         | 9,700.00          | 1,143.75           | 111.79%        |
| 5316 · Admin Fixed Assets                          | 0.00             |                  |                   |                | 510.58            | 5,000.00          | -4,489.42          | 10.21%        | 510.58            | 5,000.00          | -4,489.42          | 10.21%         |
| 5318 · Computer Consultant                         | 0.00             |                  |                   |                | 17,142.32         | 16,500.00         | 642.32             | 103.89%       | 17,142.32         | 16,500.00         | 642.32             | 103.89%        |
| 5325 · Emp Training/Subscriptions                  | 0.00             |                  |                   |                | 164.53            | 2,000.00          | -1,835.47          | 8.23%         | 164.53            | 2,000.00          | -1,835.47          | 8.23%          |
| 5330 · Admin Travel/Conferences                    | 0.00             |                  |                   |                | 0.00              | 2,000.00          | -2,000.00          | 0.0%          | 0.00              | 2,000.00          | -2,000.00          | 0.0%           |
| 5331 · Public Information                          | 0.00             |                  |                   |                | 1,609.38          | 3,500.00          | -1,890.62          | 45.98%        | 1,609.38          | 3,500.00          | -1,890.62          | 45.98%         |
| <b>Total 4999 · GENERAL &amp; ADMINISTRATIVE</b>   | <b>0.00</b>      |                  |                   |                | <b>142,775.42</b> | <b>237,453.00</b> | <b>-94,677.58</b>  | <b>60.13%</b> | <b>142,775.42</b> | <b>237,453.00</b> | <b>-94,677.58</b>  | <b>60.13%</b>  |
| <b>5299 · ADMIN LABOR</b>                          | <b>0.00</b>      |                  |                   |                | <b>400,768.23</b> | <b>620,531.00</b> | <b>-219,762.77</b> | <b>64.59%</b> | <b>400,768.23</b> | <b>620,531.00</b> | <b>-219,762.77</b> | <b>64.59%</b>  |
| <b>5400 · GENERAL &amp; ADMIN - FISHERIES</b>      |                  |                  |                   |                |                   |                   |                    |               |                   |                   |                    |                |
| 5407 · Legal - FD                                  | 4,013.50         | 25,000.00        | -20,986.50        | 16.05%         | 0.00              |                   |                    |               | 4,013.50          | 25,000.00         | -20,986.50         | 16.05%         |
| 5410 · Postage / Office Supplies                   | 2,141.85         | 4,000.00         | -1,858.15         | 53.55%         | 0.00              |                   |                    |               | 2,141.85          | 4,000.00          | -1,858.15          | 53.55%         |
| 5411 · Office Equipment / Leases                   | 2,739.47         | 8,533.00         | -5,793.53         | 32.1%          | 0.00              |                   |                    |               | 2,739.47          | 8,533.00          | -5,793.53          | 32.1%          |
| 5412 · Misc. Admin Expense                         | 3,763.04         | 7,500.00         | -3,736.96         | 50.17%         | 0.00              |                   |                    |               | 3,763.04          | 7,500.00          | -3,736.96          | 50.17%         |
| 5413 · Communications                              | 3,581.97         | 4,455.00         | -873.03           | 80.4%          | 0.00              |                   |                    |               | 3,581.97          | 4,455.00          | -873.03            | 80.4%          |
| 5414 · Utilities                                   | 3,098.30         | 5,243.00         | -2,144.70         | 59.09%         | 0.00              |                   |                    |               | 3,098.30          | 5,243.00          | -2,144.70          | 59.09%         |
| 5415 · Membership Dues                             | 6,694.25         | 6,200.00         | 494.25            | 107.97%        | 0.00              |                   |                    |               | 6,694.25          | 6,200.00          | 494.25             | 107.97%        |
| 5416 · Admin Fixed Assets                          | 2,167.01         | 3,000.00         | -832.99           | 72.23%         | 0.00              |                   |                    |               | 2,167.01          | 3,000.00          | -832.99            | 72.23%         |
| 5418 · Computer Consultant                         | 9,230.48         | 9,000.00         | 230.48            | 102.56%        | 0.00              |                   |                    |               | 9,230.48          | 9,000.00          | 230.48             | 102.56%        |
| 5425 · Employee Education/Subscription             | 250.00           | 2,500.00         | -2,250.00         | 10.0%          | 0.00              |                   |                    |               | 250.00            | 2,500.00          | -2,250.00          | 10.0%          |
| 5426 · Director Fees                               | 2,869.30         | 6,700.00         | -3,830.70         | 42.83%         | 0.00              |                   |                    |               | 2,869.30          | 6,700.00          | -3,830.70          | 42.83%         |
| 5427 · Director Mileage                            | 0.00             | 300.00           | -300.00           | 0.0%           | 0.00              |                   |                    |               | 0.00              | 300.00            | -300.00            | 0.0%           |
| 5430 · Travel                                      | 0.00             | 2,500.00         | -2,500.00         | 0.0%           | 0.00              |                   |                    |               | 0.00              | 2,500.00          | -2,500.00          | 0.0%           |
| 5431 · Public Information                          | 866.59           | 1,500.00         | -633.41           | 57.77%         | 0.00              |                   |                    |               | 866.59            | 1,500.00          | -633.41            | 57.77%         |



**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2021 - June 2022

|   | Fisheries         |                     |                    |               | Operations             |                        |                          |               | TOTAL                  |                        |                          |               |
|---|-------------------|---------------------|--------------------|---------------|------------------------|------------------------|--------------------------|---------------|------------------------|------------------------|--------------------------|---------------|
|   | Jul '21 - Feb 22  | Budget              | \$ Over Budget     | % of Budget   | Jul '21 - Feb 22       | Budget                 | \$ Over Budget           | % of Budget   | Jul '21 - Feb 22       | Budget                 | \$ Over Budget           | % of Budget   |
| 5441 · Audit  | 7,666.39          | 12,250.00           | -4,583.61          | 62.58%        | 0.00                   |                        |                          |               | 7,666.39               | 12,250.00              | -4,583.61                | 62.58%        |
| 5443 · Liab & Property Ins                          | 17,113.12         | 17,745.00           | -631.88            | 96.44%        | 0.00                   |                        |                          |               | 17,113.12              | 17,745.00              | -631.88                  | 96.44%        |
| <b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b> | <b>66,195.27</b>  | <b>116,426.00</b>   | <b>-50,230.73</b>  | <b>56.86%</b> | <b>0.00</b>            |                        |                          |               | <b>66,195.27</b>       | <b>116,426.00</b>      | <b>-50,230.73</b>        | <b>56.86%</b> |
| 5499 · ADMIN LABOR-FISHERIES                        | 157,493.89        | 258,029.00          | -100,535.11        | 61.04%        | 0.00                   |                        |                          |               | 157,493.89             | 258,029.00             | -100,535.11              | 61.04%        |
| 5510 · Integrated Reg. Water Mgt Plan               | 0.00              |                     |                    |               | 1,211.76               | 5,000.00               | -3,788.24                | 24.24%        | 1,211.76               | 5,000.00               | -3,788.24                | 24.24%        |
| <b>6000 · SPECIAL PROJECTS</b>                      |                   |                     |                    |               |                        |                        |                          |               |                        |                        |                          |               |
| 6062 · SCADA  | 0.00              |                     |                    |               | 18,509.87              | 150,000.00             | -131,490.13              | 12.34%        | 18,509.87              | 150,000.00             | -131,490.13              | 12.34%        |
| 6090 · COMB Office Building                         | 0.00              |                     |                    |               | 133,531.41             | 216,000.00             | -82,468.59               | 61.82%        | 133,531.41             | 216,000.00             | -82,468.59               | 61.82%        |
| 6096 · SCC Structure Rehabilitation                 | 0.00              |                     |                    |               | 125,248.74             | 390,000.00             | -264,751.26              | 32.12%        | 125,248.74             | 390,000.00             | -264,751.26              | 32.12%        |
| 6097 · GIS and Mapping                              | 0.00              |                     |                    |               | 4,700.00               | 10,000.00              | -5,300.00                | 47.0%         | 4,700.00               | 10,000.00              | -5,300.00                | 47.0%         |
| 6100 · Watershed Sanitary Survey                    | 0.00              |                     |                    |               | 16,829.62              | 12,050.00              | 4,779.62                 | 139.67%       | 16,829.62              | 12,050.00              | 4,779.62                 | 139.67%       |
| 6105 · ROW Management Program                       | 0.00              |                     |                    |               | 18,925.00              | 20,000.00              | -1,075.00                | 94.63%        | 18,925.00              | 20,000.00              | -1,075.00                | 94.63%        |
| 6120 · Lake Cachuma Secured Pipeline                | 0.00              |                     |                    |               | 28,401.00              | 352,000.00             | -323,599.00              | 8.07%         | 28,401.00              | 352,000.00             | -323,599.00              | 8.07%         |
| 6136 · SCC Isolation Valve Evaluation               | 0.00              |                     |                    |               | 97,318.59              | 400,000.00             | -302,681.41              | 24.33%        | 97,318.59              | 400,000.00             | -302,681.41              | 24.33%        |
| 6138 · Cachuma Watershed Mgmt Study                 | 0.00              |                     |                    |               | 2,234.01               | 50,000.00              | -47,765.99               | 4.47%         | 2,234.01               | 50,000.00              | -47,765.99               | 4.47%         |
| <b>Total 6000 · SPECIAL PROJECTS</b>                | <b>0.00</b>       |                     |                    |               | <b>445,698.24</b>      | <b>1,600,050.00</b>    | <b>-1,154,351.76</b>     | <b>27.86%</b> | <b>445,698.24</b>      | <b>1,600,050.00</b>    | <b>-1,154,351.76</b>     | <b>27.86%</b> |
| <b>6200 · FISHERIES ACTIVITIES</b>                  |                   |                     |                    |               |                        |                        |                          |               |                        |                        |                          |               |
| 6201 · FMP Implementation                           | 1,359.75          | 35,000.00           | -33,640.25         | 3.89%         | 0.00                   |                        |                          |               | 1,359.75               | 35,000.00              | -33,640.25               | 3.89%         |
| 6202 · GIS and Mapping                              | 2,850.00          | 10,000.00           | -7,150.00          | 28.5%         | 0.00                   |                        |                          |               | 2,850.00               | 10,000.00              | -7,150.00                | 28.5%         |
| 6205 · USGS Stream Gauge Program                    | 44,475.00         | 105,000.00          | -60,525.00         | 42.36%        | 0.00                   |                        |                          |               | 44,475.00              | 105,000.00             | -60,525.00               | 42.36%        |
| 6207 · Oak Tree Restoration Program                 | 15,500.42         | 25,000.00           | -9,499.58          | 62.0%         | 0.00                   |                        |                          |               | 15,500.42              | 25,000.00              | -9,499.58                | 62.0%         |
| <b>Total 6200 · FISHERIES ACTIVITIES</b>            | <b>64,185.17</b>  | <b>175,000.00</b>   | <b>-110,814.83</b> | <b>36.68%</b> | <b>0.00</b>            |                        |                          |               | <b>64,185.17</b>       | <b>175,000.00</b>      | <b>-110,814.83</b>       | <b>36.68%</b> |
| <b>6300 · HABITAT ENHANCEMENT</b>                   |                   |                     |                    |               |                        |                        |                          |               |                        |                        |                          |               |
| 6303 · Tributary Projects Support                   | 0.00              | 10,000.00           | -10,000.00         | 0.0%          | 0.00                   |                        |                          |               | 0.00                   | 10,000.00              | -10,000.00               | 0.0%          |
| <b>Total 6300 · HABITAT ENHANCEMENT</b>             | <b>0.00</b>       | <b>10,000.00</b>    | <b>-10,000.00</b>  | <b>0.0%</b>   | <b>0.00</b>            |                        |                          |               | <b>0.00</b>            | <b>10,000.00</b>       | <b>-10,000.00</b>        | <b>0.0%</b>   |
| 7007 · INTEREST EXPENSE-EPFP                        | 0.00              |                     |                    |               | 115.47                 | 0.00                   | 115.47                   | 100.0%        | 115.47                 | 0.00                   | 115.47                   | 100.0%        |
| <b>Total Expense</b>                                | <b>785,687.62</b> | <b>1,427,013.00</b> | <b>-641,325.38</b> | <b>55.06%</b> | <b>\$ 1,769,639.71</b> | <b>\$ 3,865,221.00</b> | <b>\$ (2,095,581.29)</b> | <b>45.78%</b> | <b>\$ 2,555,327.33</b> | <b>\$ 5,292,234.00</b> | <b>\$ (2,736,906.67)</b> | <b>48.28%</b> |
| <b>Net Surplus / Deficit</b>                        | <b>248,271.14</b> | <b>0.00</b>         | <b>248,271.14</b>  | <b>100.0%</b> | <b>\$ 1,221,029.84</b> | <b>\$ -</b>            | <b>\$ 1,221,029.84</b>   | <b>100.0%</b> | <b>\$ 1,469,300.98</b> | <b>\$ -</b>            | <b>\$ 1,469,300.98</b>   | <b>100.0%</b> |

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | March 28, 2022 |
| Submitted by: | Janet Gingras  |

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**SUBJECT:** Investment Report – February 28, 2022

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### **RECOMMENDATION**

The Board of Directors receive and file the Cachuma Operation & Maintenance Board Investment Report as of February 28, 2022.

### **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 February 2022, is reported at 0.278%.

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

| Table 1                             |           |    |              |
|-------------------------------------|-----------|----|--------------|
| Unrestricted Reserve Funds          |           |    |              |
| Local Agency Investment Fund (LAIF) |           |    |              |
| Previous Balance                    | 1/31/2022 | \$ | 1,316,358.56 |
| (+) Deposits/Credits                |           |    | 700,000.00   |
| (-) Checks/Withdrawals              |           |    | -            |
| Statement Balance                   | 2/28/2022 | \$ | 2,016,358.56 |

#### 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<br>Renewal Account       |           |    |            |
| Previous Balance                               | 1/31/2022 | \$ | 74,033.06  |
| (+) Deposits/Credits                           |           |    | -          |
| (-) Checks/Withdrawals                         |           |    | -          |
| Statement Balance                              | 2/28/2022 | \$ | 74,033.06  |
| American Riviera Bank<br>Warren Act Trust Fund |           |    |            |
| Previous Balance                               | 1/31/2022 | \$ | 170,715.72 |
| (+) Deposits/Credits                           |           |    | -          |
| (-) Checks/Withdrawals                         |           |    | -          |
| Statement Balance                              | 2/28/2022 | \$ | 170,715.72 |

**STATEMENT**

The above statement of investment activity for the month of February 2022, 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 February 28, 2022

| <b>Date</b>                | <b>Num</b> | <b>Name</b>                             | <b>Memo</b>   | <b>Amount</b> |
|----------------------------|------------|---|---|---------------|
| <b>1050 - General Fund</b> |            |   |   |               |
| 02/02/2022                 | 29122      | Aqua-Flo Supply                         | Supplies (Ops)  | -19.38        |
| 02/02/2022                 | 29123      | City of Santa-Barbara                   | Trash & Recycling January 2022                            | -326.22       |
| 02/02/2022                 | 29124      | Dig Safe Board                          | Annual Regulatory Fee (Ops)                               | -299.46       |
| 02/02/2022                 | 29125      | Employee Relations, Inc.                | Background Check (Ops)                                    | -242.97       |
| 02/02/2022                 | 29126      | Eurofins Eaton Analytical, LLC          | Lake Cachuma Water Quality Sampling                       | -855.00       |
| 02/02/2022                 | 29127      | Frontier Communications                 | Phone Service - Board Room                                | -97.94        |
| 02/02/2022                 | 29128      | Frontier Communications                 | Phone Service - North Portal                              | -62.42        |
| 02/02/2022                 | 29129      | Home Depot Credit Services              | Supplies (Ops)  | -219.97       |
| 02/02/2022                 | 29130      | Lash Construction, Inc.                 | Materials (Ops)   | -211.14       |
| 02/02/2022                 | 29131      | Musick, Peeler & Garrett LLP            | General Counsel December 2021 (Ops & Fisheries)           | -1,840.00     |
| 02/02/2022                 | 29132      | O'Reilly Automotive, Inc.               | Supplies (Ops)  | -136.21       |
| 02/02/2022                 | 29133      | Paychex, Inc. (Payroll)                 | Payroll & Payroll Tax Services 1/7/22 & 1/21/22           | -451.00       |
| 02/02/2022                 | 29134      | Southern California Edison              | Electricity - Main Office & Outlying Stations             | -1,243.09     |
| 02/02/2022                 | 29135      | Stewart's De-Rooting & Plumbing         | COMB Building Replacement - Plumbing Services             | -541.28       |
| 02/02/2022                 | 29136      | Underground Service Alert of So. Calif. | Ticket Charges & Database Fee                             | -161.80       |
| 02/02/2022                 | 29137      | Zac Gonzalez Landscaping & Tree Care    | Landscape Maintenance January 2022                        | -480.00       |
| 02/07/2022                 | 29138      | AT&T                                    | Long Distance Service 12/28-1/27/22                       | -36.86        |
| 02/07/2022                 | 29139      | Bartlett, Pringle & Wolf, LLP           | Audit Services FY 2020-21                                 | -10,820.00    |
| 02/07/2022                 | 29140      | Cox Communications Santa Barbara        | Business Internet February 2022                           | -195.41       |
| 02/07/2022                 | 29141      | Lash Construction, Inc.                 | Materials (Ops)   | -105.57       |
| 02/07/2022                 | 29142      | Premiere Global Services                | Conference Calls January 2022                             | -26.62        |
| 02/07/2022                 | 29143      | Santa Barbara Police Department         | Annual Alarm Registration Fee                             | -40.00        |
| 02/07/2022                 | 29144      | Southern California Edison              | Electricity - 1700 Glen Annie Rd Gate                     | -18.00        |
| 02/07/2022                 | 29145      | WEX Fleet Universal                     | Fleet Fuel January 2022                                   | -780.93       |
| 02/14/2022                 | 29146      | American Fisheries Society              | American Fisheries Society 2022 Dues                      | -110.00       |
| 02/14/2022                 | 29147      | Association of Ca Water Agencies/JPIA   | March 2022 Health Benefits Premium                        | -28,734.80    |
| 02/14/2022                 | 29148      | CalPortland Construction                | La Mirada Isolation Valve Project - Construction Services | -44,400.00    |
| 02/14/2022                 | 29149      | Coastal Copy, LP                        | Copier Maintenance - Kyocera Taskalpas 3253ci & 6054ci    | -233.89       |
| 02/14/2022                 | 29150      | County of SB-Public Works Water Agency  | IRWM Program MOU Cost Share 7/1/21-12/31-21               | -1,211.76     |
| 02/14/2022                 | 29151      | Federal Express                         | Shipping (Ops)  | -123.83       |
| 02/14/2022                 | 29152      | Flowers & Associates, Inc.              | La Mirada Isolation Valve Project - Engineering Services  | -14,146.00    |
| 02/14/2022                 | 29153      | Impulse Advanced Communications         | Phone Service Main Office                                 | -859.89       |
| 02/14/2022                 | 29154      | MarBorg Industries                      | Portable Facilities (Ops)                                 | -387.92       |
| 02/14/2022                 | 29155      | Peter Lapidus Construction, Inc.        | Oak Tree Restoration Program - Transport Equipment        | -957.00       |
| 02/14/2022                 | 29156      | Rayne of Santa Barbara Inc              | February RO Rental  | -32.00        |
| 02/14/2022                 | 29157      | Sansum Clinic-Occupational Medicine     | Pre-Employment Physical (Ops)                             | -339.00       |
| 02/14/2022                 | 29158      | Santa Barbara Office Interiors          | Office Furniture (Fisheries)                              | -12,131.55    |
| 02/14/2022                 | 29159      | Southern California Edison              | Electricity - Outlying Stations (Ops)                     | -17.54        |
| 02/14/2022                 | 29160      | Turenchalk Network Services, Inc.       | Network Support January 2022 (Ops & Fisheries)            | -3,572.20     |
| 02/14/2022                 | 29161      | Verizon Wireless                        | Wireless Services - Cell Phones & Modems (Ops)            | -634.29       |
| 02/14/2022                 | 29162      | Winema Industrial & Safety Supply       | First Aid Supplies  | -38.62        |
| 02/22/2022                 | 29163      | Bedrock Building Supplies               | Materials (Ops)   | -430.65       |
| 02/22/2022                 | 29164      | Carpinteria Valley Lumber Company       | Materials (Ops)   | -293.21       |
| 02/22/2022                 | 29165      | County of Santa-Barbara                 | Waste Disposal Fee (Ops)                                  | -63.72        |
| 02/22/2022                 | 29166      | Cushman Contracting Corp.               | EPFP Pumping System - Pay Req #94                         | -3,500.00     |
| 02/22/2022                 | 29167      | Guadalupe Jasso                         | COMB Building Replacement - Miscellaneous Labor           | -120.00       |
| 02/22/2022                 | 29168      | PG&E                                    | Electricity - North Portal                                | -430.35       |
| 02/22/2022                 | 29169      | Sparkletts                              | Operations Safety   | -83.80        |
| 02/22/2022                 | 29170      | The Gas Company                         | Gas - Main Office   | -87.80        |
| 02/22/2022                 | 29171      | Verizon Wireless                        | SCADA USBs (Ops)  | -38.01        |

Cachuma Operation & Maintenance Board

**Paid Claims**

As of February 28, 2022

| <u>Date</u>               | <u>Num</u> | <u>Name</u>                       | <u>Memo</u>                            | <u>Amount</u>             |
|---------------------------|------------|-----------------------------------|--|---------------------------|
| 02/22/2022                | 29172      | Wells Fargo Vendor Fin Serv       | Copier Lease - Kyocera Taskalfa 3253ci | -123.98                   |
| 02/22/2022                | 29173      | Winema Industrial & Safety Supply | Equipment Calibration (Ops)            | -353.21                   |
| Total 1050 - General Fund |            |                                   |  | <u>-132,666.29</u>        |
| <b>TOTAL</b>              |            |                                   |  | <b><u>-132,666.29</u></b> |

**APPROVALS**

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# CACHUMA OPERATION & MAINTENANCE BOARD

## Administrative Committee Meeting

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Thursday, March 15, 2022  
11:00 A.M.

### AGENDA

Chair: Director Holcombe  
Member: Director Hanson

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter within the Committee's jurisdiction*)
3. COMB 2022 Draft Sustainability Plan (*for information and possible recommendation*)
4. Bipartisan Infrastructure Law – Reclamation Contractors' Reimbursable Funding Program (*for information and possible recommendation*)
5. ACWA JPIA Commitment to Excellence Program (*for information and possible recommendation*)
6. Adjournment

#### NOTICE TO THE PUBLIC

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

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

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

# CACHUMA OPERATION & MAINTENANCE BOARD

## Operations Committee Meeting

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Thursday, March 17, 2022  
4:00 P.M.

### AGENDA

Chair: Director Sneddon  
Member: Director Holcombe

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Infrastructure Improvement Plan – SCADA System Upgrade – Sole Source Professional Services Agreement (*for information and possible recommendation*)
4. Engineering / Operations Projects Update (*for information and possible recommendation*)
  - Ortega Reservoir Emergency Repair Project
  - LaMirada Line Valve Installation Project
  - Secured Pipeline Project
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.]



# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | March 28, 2022 |
| Submitted by: | Janet Gingras  |

---

**SUBJECT:** Resolution No. 746 – Confirmation of Local Emergency – Ratification of Governor Newsom’s Declared State of Emergency (Health and Safety)

---

**RECOMMENDATION:**

The Board of Directors adopt Resolution No. 746 pursuant to the requirements of AB 361 authorizing remote teleconference meetings of the Board of Directors and its Committees pursuant to Government Code Section 54953(e) (Brown Act).

**DISCUSSION:**

On March 4, 2020, Governor Gavin Newsom declared a state of emergency to exist due to the COVID-19 pandemic and its impact on human health and safety. Governor Newsom issued Executive Order N-29-20 which allows local agencies to meet virtually rather than in-person while still complying with state open-meeting laws (e.g., Brown Act), using videoconferencing technology to decrease meeting attendees’ potential exposure to COVID-19. The pandemic still persists and the declared state of emergency remains in place. COMB has met successfully and in compliance with the Brown Act using a commercial videoconferencing platform and providing for public access.

The Executive Order N-29-20 waiver of Brown Act meeting requirements expired on September 30, 2021. Assembly Bill 361 (Open meetings: state and local agencies: teleconferences) was signed into law on September 16, 2021 and, effective October 1<sup>st</sup>, applies to local agencies intending to meet virtually in the interest of reducing COVID-19 exposure. AB 361 requires public agencies to regularly review and find an ongoing need to hold public meetings by teleconference. Accordingly, COMB must make the following findings by majority vote within 30 days of holding a meeting by teleconference for the first time under AB 361, then every 30 days thereafter. The requirements that allow the board to meet virtually are:

- a) a governor-declared state of emergency is in effect;
- b) a majority of the Board must vote that, as a result of the emergency, meeting in person would present imminent risk to the health or safety of attendees.

The COMB Board of Directors has continued to review and consider the ongoing circumstances of the declared state of emergency since the effective date of Assembly Bill 361 and, based on those circumstances, has authorized and re-authorized the adoption of resolutions acknowledging the emergency conditions for each 30-day period. The COMB Board of Directors regularly meets on the fourth (4<sup>th</sup>) Monday of each calendar month. As a consequence, some of the regularly-scheduled Board meetings at which the resolutions are reviewed and considered may fall a few days outside the 30-day period. To the extent any regularly-scheduled virtual meeting of the Board of Directors falls outside the 30-day period, COMB will not conduct any virtual Committee meetings during those days outside the 30-day period. The Board’s next scheduled monthly meeting is April 25, 2022, where a re-authorization resolution regarding any emergency conditions will be presented to the Board for consideration and/or adoption.

**LEGAL CONCURRENCE:**

Legal counsel has reviewed Resolution No. 746.

**LIST OF EXHIBITS:**

1. Resolution No. 746

**RESOLUTION NO. 746**

**A RESOLUTION OF THE GOVERNING BOARD OF THE CACHUMA OPERATION AND MAINTENANCE BOARD ACKNOWLEDGING A LOCAL EMERGENCY, ACKNOWLEDGING THE PROCLAMATION OF A STATE OF EMERGENCY BY GOVERNOR NEWSOM'S ORDER DATED MARCH 4, 2020 AND RE-AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF THE CACHUMA OPERATION AND MAINTENANCE BOARD FOR THE PERIOD MARCH 28, 2022 THROUGH APRIL 28, 2022 PURSUANT TO BROWN ACT PROVISIONS**

**Recitals**

**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; and

**WHEREAS**, COMB is committed to preserving and nurturing public access and participation in meetings of the Board of Directors; and

**WHEREAS**, all meetings of the COMB Governing Board are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code sections 54950 – 54963)(“Brown Act”), so that any member of the public may attend, participate and watch COMB’s governing body conduct its business; and

**WHEREAS**, the Brown Act, Government Code section 54953(e), makes provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

**WHEREAS**, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the State caused by conditions as described in Government Code section 8558; and

**WHEREAS**, it is further required that State or local officials have imposed or recommended measures to promote social distancing, or, the governing body determines that meeting in person would present risks to the health and safety of attendees; and

**WHEREAS**, on March 4, 2020, Governor Gavin Newsom proclaimed a State of Emergency to exist in California due to the threat of COVID-19; despite sustained efforts, the virus, and its variants, continues to spread and has impacted nearly all sectors of California; and

**WHEREAS**, as a consequence of the declared emergency, the COMB Governing Board does hereby find that meeting in person would pose risks to the health or safety of attendees; and

**WHEREAS**, the COMB Governing Board does hereby find that COMB shall continue to conduct its meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that such legislative bodies shall comply with the requirements to provide the public with access to meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

**WHEREAS**, all meeting agendas, meeting dates, times and manner in which the public may participate in the public meetings of COMB and offer public comment by telephone or internet-based services options, including video conference, are posted on the COMB website and physically within COMB's jurisdictional boundaries.

**WHEREAS**, the COMB Governing Board adopted virtual meeting protocols on April 9, 2020, which includes options for public participation.

**NOW, THEREFORE, IT IS HEREBY RESOLVED** by the COMB Governing Board, as follows:

1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.
2. Acknowledgment of Governor's Proclamation of a State of Emergency. The Governing Board hereby acknowledges the Governor of the State of California's Proclamation of State of Emergency, effective as of its issuance date of March 4, 2020.
3. Risks to Health and Safety of Attendees. The Governing Board hereby determines that meeting in person would present risks to the health and safety of attendees.
4. Remote Teleconference Meetings. COMB staff are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, conducting open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

5. Effective Date of Resolution. This Resolution shall take effect on March 28, 2022, and shall be effective until the earlier of (i) April 28, 2022, or such time the Governing Board adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the legislative bodies of COMB may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

**ADOPTED** by the COMB Governing Board on March 28, 2022, by the following roll call votes:

AYES:

NOES:

ABSENT:

ABSTAINED:

**APPROVED:**

\_\_\_\_\_  
President of the Governing Board

**ATTEST:**

\_\_\_\_\_  
Secretary of the Governing Board

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | March 28, 2022 |
| Submitted by: | Edward Lyons   |
| Approved by:  | Janet Gingras  |

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**SUBJECT:** Resolution No. 747 - COMB 2022 Sustainability Plan

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**RECOMMENDATION:**

The Board of Directors receive a presentation on the COMB 2022 Sustainability Plan and provide direction to staff, including approving the Plan and adopting Resolution No. 747.

**SUMMARY:**

The Cachuma Operation and Maintenance Board (COMB) is committed to providing exemplary services that are consistent with our history, mission and unique composition. To be successful, we must be sustainable. Sustainability is most often defined as meeting the needs of the present without compromising the ability of future generations to meet theirs. The term is broadly used to indicate the responsibility associated with implementation of programs, initiatives and actions focused on the preservation of vital resources. The principles necessary to preserve those resources can be depicted as three concentric circles: economic, environmental, and social pillars of sustainability. These principles overlap and interconnect and, if followed in action, achieve results consistent with operating a sustainable organization.

**BACKGROUND:**

The development and adoption of this sustainability plan will provide COMB the foundation for promoting and maintaining a sustainable service model that balances economic, environmental, and social principles as a fundamental component of achieving COMB's mission. As a steward of valuable natural resources, it is our inherent responsibility to protect our present and future assets.

COMB staff has developed this plan to show how sustainability practices have historically been, and will continue to be, woven into the daily operation and maintenance of critical infrastructure necessary to manage the Cachuma Transferred Project Works. In addition, the plan supports the work associated with implementation of the Lower Santa Ynez River Fish Management Plan and the 2000 Cachuma Project Biological Opinion.

This plan will improve and develop over time and will be our guide and commitment to become a more sustainable governmental organization. The plan outlines and describes our initiatives, goals and objectives for improving our organization by reducing consumption and increasing our effectiveness while preserving the natural resources in which we have a responsibility to protect.

**FISCAL IMPACTS:**

Inserting sustainability considerations into COMB's business operations and best practices will maximize financial performance and resource preservation, ultimately accruing to current and future generations. The projects and associated expenditures related to the initiatives identified within the Sustainability Plan will be approved by the Board of Directors prior to implementation.

**COMMITTEE STATUS:**

The Administrative Committee received a presentation and provided comments on the COMB 2022 Sustainability Plan and forwards the Plan to the Board of Directors with a recommendation to approve the Plan and adopt Resolution No. 747.

- 1) Resolution No. 747
- 2) COMB 2022 Sustainability Plan



**RESOLUTION NO. 747**

**RESOLUTION OF THE GOVERNING BOARD OF THE  
CACHUMA OPERATION & MAINTENANCE BOARD  
APPROVING AND ADOPTING  
THE COMB 2022 SUSTAINABILITY 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 (“Cachuma Project Transferred Project Works”); and

**WHEREAS**, as a steward of valuable natural resources, with a responsibility to protect our present and future assets, COMB is fully committed to providing exemplary services to our Member Agencies that are consistent with our history, mission, and unique composition; and

**WHEREAS**, COMB staff has developed a Sustainability Plan (“Plan”) describing and highlighting how sustainability practices have historically been practiced, and will continue to be implemented and integrated into the day-to-day operation and maintenance of critical infrastructure necessary to efficiently and effectively manage and operate the Cachuma Project Transferred Project Works; and

**WHEREAS**, the Plan will be COMB’s guide and commitment to become a more sustainable and efficient governmental organization; and

**WHEREAS**, the Plan outlines and describes stated initiatives, goals and objectives for improving our organization by reducing consumption and increasing our effectiveness, while preserving the natural resources that we have a responsibility to protect; and

**WHEREAS**, the Plan was reviewed by the COMB Administrative Committee on March 15, 2022, and after such review and comment, forwarded to the COMB Governing Board with a recommendation to approve and adopt the Plan.

**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 Sustainability Plan as set forth in the accompanying staff memorandum and Exhibit 2 of the memorandum and hereby adopts Resolution No. 747.
3. This Resolution shall take effect immediately.

**PASSED, APPROVED AND ADOPTED** by the Governing Board of the Cachuma Operation and Maintenance Board, this 28<sup>th</sup> day of March 2022, by the following roll call vote:

AYES:  
NOES:  
ABSENT:  
ABSTAINED:

**APPROVED:**

---

President of the Governing Board

**ATTEST:**

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Secretary of the Governing Board

# Sustainability Plan



Adopted: \_\_\_\_\_



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**Cachuma Operation & Maintenance Board  
Santa Barbara, California**

**ACKNOWLEDGEMENTS:**

**Board of Directors**

| <b>Name</b>     | <b>Title</b>   | <b>Member Agency</b>              |
|-----------------|----------------|-----------------------------------|
| Polly Holcombe  | President      | Carpinteria Valley Water District |
| Kristen Sneddon | Vice President | City of Santa Barbara             |
| Lauren Hanson   | Director       | Goleta Water District             |
| Cori Hayman     | Director       | Montecito Water District          |

**General Manager**

Janet L. Gingras, General Manager

**Staff Contributors**

Edward Lyons, Administrative Manager, CFO  
Joel Degner, Engineer / Operations Division Manager  
Tim Robinson, Fisheries Division Manager  
Elijah Papen, Program Analyst II  
Perri Wolfe, Administrative Analyst  
Dorothy Turner, Administrative Assistant II

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## Our Mission

*To provide a reliable source of water to our Member Agencies  
in an efficient and cost effective manner  
for the betterment of our community.*



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### COMB AT A GLANCE

|  |                            |
|--|----------------------------|
| Form of government                       | Joint Powers Authority     |
| Date of organization                     | January 1, 1957            |
| Number of full-time staff                | 15                         |
| Lake Cachuma maximum storage (acre feet) | 193,305                    |
| Lake Cachuma spillway elevation (feet)   | 753                        |
| Tecolote Tunnel (miles)                  | 6                          |
| South Coast Conduit pipeline (miles)     | 26                         |
| SCC design capacity                      | 45 million gallons per day |
| Number of reservoirs                     | 4                          |
| Number of structures maintained          | 220                        |
| Number of meters maintained              | 28                         |

### COMB MEMBER AGENCIES

| <b>COMB Member Agency</b>         | <b>COMB Board Representation</b> |
|-----------------------------------|----------------------------------|
| Goleta Water District             | 2 Votes                          |
| City of Santa Barbara             | 2 Votes                          |
| Carpinteria Valley Water District | 1 Vote                           |
| Montecito Water District          | 1 Vote                           |
| <b>Total</b>                      | <b>6 Votes</b>                   |

### CACHUMA PROJECT WATER ENTITLEMENT

| <b>Cachuma Project Member Unit</b>        | <b>Entitlement (%)</b> | <b>Entitlement (AFY)</b> |
|---|------------------------|--------------------------|
| Goleta Water District                     | 36.25%                 | 9,322                    |
| City of Santa Barbara                     | 32.19%                 | 8,277                    |
| Carpinteria Valley Water District         | 10.94%                 | 2,813                    |
| Montecito Water District                  | 10.31%                 | 2,651                    |
| SYR Water Conservation District, ID No. 1 | 10.31%                 | 2,651                    |
| <b>Total</b>                              | <b>100.00%</b>         | <b>25,714</b>            |

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## INTRODUCTION



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## SUSTAINABILITY PLAN OVERVIEW

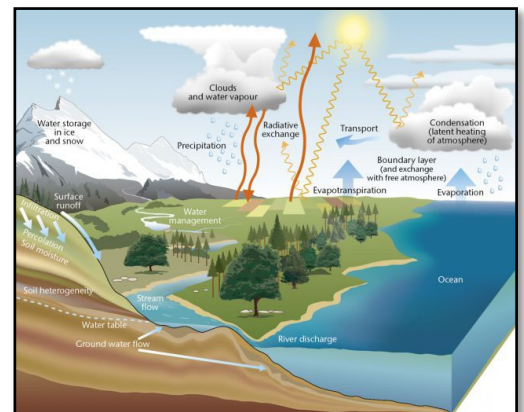
The Cachuma Operation and Maintenance Board (COMB) is committed to providing exemplary services that are consistent with our history, mission and unique composition. To be successful, we must be sustainable. Sustainability is most often defined as meeting the needs of the present without compromising the ability of future generations to meet theirs. The term is broadly used to indicate the responsibility associated with implementation of programs, initiatives and actions focused on the preservation of vital resources. The principles necessary to preserve those resources can be depicted as three concentric circles: **economic, environmental, and social pillars of sustainability**. These principles overlap and interconnect and, if followed in action, achieve results consistent with operating a sustainable organization.

The development of this Sustainability Plan (Plan) will provide COMB the foundation for promoting and maintaining a sustainable service model that balances economic, environmental, and social principles as a fundamental component of achieving COMB's mission. As a steward of valuable natural resources, it is our inherent responsibility to protect our present and future assets.

This Plan is intended to illuminate how sustainability practices have historically been, and will continue to be, woven into the daily operation and maintenance of critical infrastructure necessary to manage the Cachuma Transferred Project Works. In addition, the Plan supports the work associated with implementation of the Lower Santa Ynez River Fish Management Plan and the 2000 Cachuma Project Biological Opinion.

### *Addressing Climate Change*

The Plan serves as COMB's guide to addressing climate change while carrying out our mission of providing a reliable source of water to the COMB Member Agencies. Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, such as variations in the solar cycle. However, studies have shown that human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas.



**SUSTAINABILITY PLAN OVERVIEW** (Continued)

Burning fossil fuels generate greenhouse gas emissions that act like a blanket wrapped around the Earth, trapping the sun's heat and raising temperatures. Examples of greenhouse gas emissions that contribute to climate change include carbon dioxide and methane. These come from using gasoline for driving a car or coal for heating a building, for example. Clearing land and forests also releases carbon dioxide. Landfills for garbage are a major source of methane emissions. Energy, industry, transport, buildings, agriculture and other land uses are among the main emitters. Rising sea levels, extreme weather events (drought, wildfires, flooding etc.), and the degradation of natural resources are a direct result of increased carbon levels which threaten global economies and the health, safety, and welfare of local communities.

Response to climate change can be bifurcated into two activities – **mitigation** measures (avoiding the unmanageable) which aim to tackle the causes and minimize the possible impacts of climate change, and **adaptation** measures (managing the unavoidable) which are the process of adjusting to the current and future effects of climate change. COMB will strengthen our commitment to sustainability in response to climate change by reducing carbon emissions, exploring alternate sources of renewable energy, and providing a pathway to adapt our operations to a changing climate. By tackling the sources of climate change, preparing for future impacts, and making our environment adaptable and resilient, COMB is determined and committed to building a better future for all.

*Going Forward*

This Plan will improve and develop over time and will be our guide and commitment to become a more sustainable governmental organization. The Plan outlines and describes our initiatives, goals and objectives for improving our organization by reducing consumption and increasing our effectiveness while preserving the natural resources which we have a responsibility to protect. COMB will conduct performance evaluations and report our achievements to the Board of Directors and the stakeholders of the Cachuma Project in an effort to provide insight as to our progress as we travel through the journey of becoming a more sustainable organization.





## THE PURPOSE OF THE PLAN

The Plan is our guide and commitment to be a sustainable organization. While COMB has made past efforts towards sustainability, this Plan allows the agency to make a formal commitment to addressing sustainability in our daily operations. Additionally, a focus on climate resilience will prepare our organization for our changing future.



The Plan provides direction over the next two years to advance sustainability efforts and build capacity to:

- Implement mitigation and adaptation measures to respond to a changing climate and to ensure COMB operations and employees are resilient in the face of these changes.
- Create goals to measure success and progress toward achieving sustainability and resilience.
- Maximize cost savings opportunities.
- Provide community leadership in sustainability.

## THE PLANNING PROCESS

To create this Plan, COMB staff worked to envision a future within the context of two key challenges for our stakeholders: water supply reliability and impact of climate change on our watershed and natural resources. The Plan includes several phases:

- Defining a vision for a sustainable organization.
- Alignment with COMB's mission.
- Establishment of sustainability initiatives and goals.
- Creation of objectives to achieve goals.
- Development and prioritization of tasks.
- Implementation.
- Monitoring and reporting.

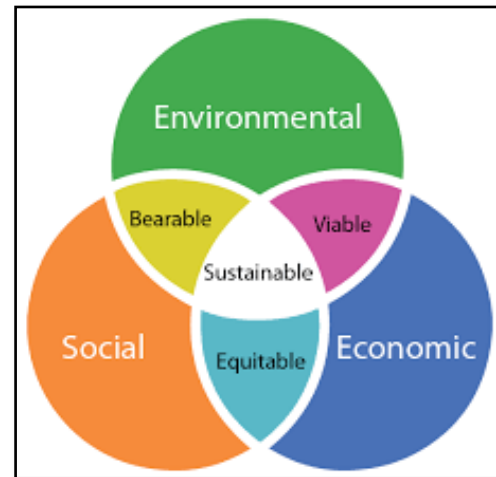
Strategic Pyramid



## PLAN ORGANIZATION

The Plan establishes guiding principles which are derived from three organizational sustainability pillars consisting of **environmental, economic, and social** practices. These principles will be integrated into everyday operations within all divisions of COMB. The benefits of integrating these principles into everyday practice includes alignment with six established key strategic initiatives:

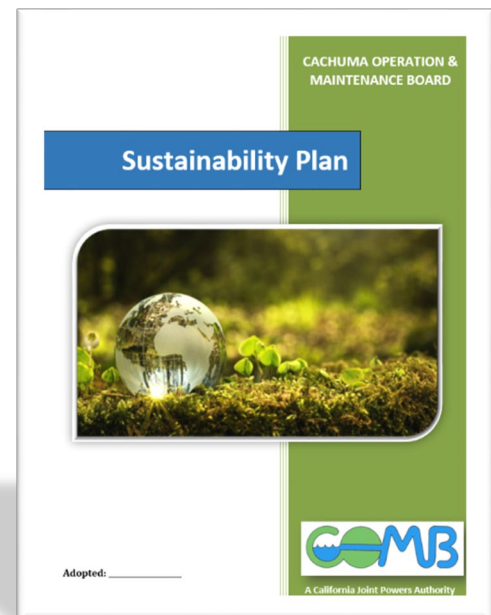
- Water Supply Reliability
- Distribution Facilities Improvements
- Cost-Effectiveness and Value
- Environmental Stewardship and Public Trust Resources
- Organization Policies and Financial Responsibility
- Fostering Leadership and Strengthening Workforce Capabilities



This Plan was developed based on considerable research and established industry methodologies as well as an evaluation of COMB's current structure, organizational practices, assets and operations. The Plan is organized into six sections:

- Introduction and Overview
- Background
- Sustainability Plan Structure
- Implementing Sustainability Initiatives
- Sustainability Practices in Action
- Appendices

Sustainability has always been embedded in the foundation of our agency strategy. Creating value for our stakeholders and more broadly, for our society and employees, is a key to the long-term resilience and inherent value of COMB. The sustainability framework, which underpins our strategy, puts our purpose into action. We must continue to integrate sustainability into our governance structure and processes, so that it informs our future strategic and operational decisions.





## BACKGROUND



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## A HISTORY OF SUSTAINABILITY

Santa Barbara County has a history of complex water challenges. COMB is focused on identifying approaches to responsibly conserving and enhancing our resources and protecting the environment while meeting our Member Agencies water demand. At COMB, we know that being prepared for a successful water future requires innovation, foresight and collaboration. The following projects and practices provide an overview of how COMB has historically worked collaboratively with our Member Agencies and external stakeholders to solve short and long-term water challenges, protect our natural resources and champion sustainability for the benefit of the region for decades to come.

**Cachuma Project Transferred Project Works:** The Cachuma Project was constructed in the early 1950s by the United States Department of the Interior, U.S. Bureau of Reclamation (Reclamation) under contract with the Santa Barbara County Water Agency on behalf of the Cachuma Project Member Units. The Cachuma Project Member Units are the Carpinteria Valley Water District, City of Santa Barbara, Goleta Water District, Montecito Water District, and Santa Ynez River Water Conservation District-Improvement District No. 1.



The Cachuma Project Member Units entered into contracts with the Santa Barbara County Water Agency for the purpose of receiving water from the Cachuma Project for use and benefit of the Member Units. Over the past sixty years, the Project has been the principal water supply for the Santa Ynez Valley and the South Coast Communities, delivering water to approximately 200,000 people.

COMB is a California Joint Powers Authority formed in 1957 by the Cachuma Member Units pursuant to an agreement with Reclamation. The agreement transferred to COMB the responsibility to repair, replace, operate and maintain all Cachuma Project facilities exclusive of Bradbury Dam. Since 1957, the JPA membership has changed. The current Member Agencies of COMB are the Goleta Water District, the City of Santa Barbara, Montecito Water District and the Carpinteria Valley Water District.

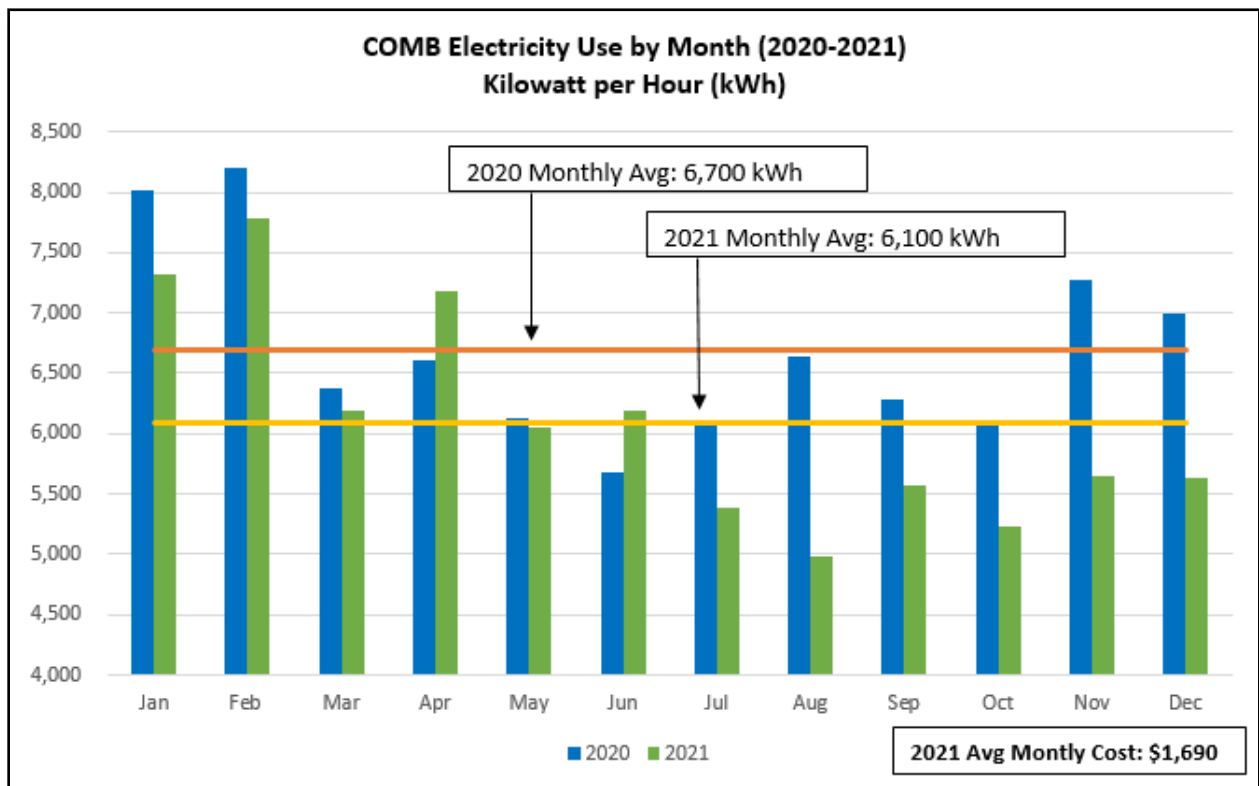
Through the Transferred Project Works contract, COMB is responsible for diversion of water to the South Coast through the Tecolote Tunnel, and operation and maintenance of the South Coast Conduit (SCC) pipeline, flow control valves, meters, and instrumentation at control stations, and turnouts along the SCC and at four regulating reservoirs. COMB coordinates closely with Reclamation and Member Agencies' staff to ensure that water supplies meet daily demands.

A HISTORY OF SUSTAINABILITY (continued)

“The design of the water conveyance system is innately sustainable...”

The design of the water conveyance system is innately sustainable, relying on gravity feed rather than an outside energy source to deliver water through the conduit. The system consists of the Tecolote Tunnel that extends 6.4 miles through the Santa Ynez Mountains from Lake Cachuma to the south portal of

the SCC. The tunnel is a modified horseshoe shaped concrete tunnel with a gradual slope over the 6.4 miles. The SCC is a reinforced concrete lined pipeline which is 26 miles long and designed to enable gravity feed. The conduit allows for delivery of water from the Goleta Water District to the Carpinteria Valley Water District at a fraction of the electricity usage of alternative pumped delivery systems as depicted in the chart below.



In an effort to reduce our carbon emissions, COMB participates in the Central Coast Community Energy (3CE) program through Pacific Gas & Electric and Southern California Edison. 3CE is a Community Choice Energy agency established by local communities to source clean and renewable electricity which is delivered through an existing utility provider’s infrastructure. 3CE promotes long-term rate stability and energy security while reducing reliance on fossil fuels and stimulating the local economy.

## A HISTORY OF SUSTAINABILITY (continued)

**Imported Water - State Water Project:** In 1991, the voters of Santa Barbara County approved participation in the California State Water Project (SWP). The importation and storage of SWP allocation (Table A water), through the Cachuma Project facilities is used to increase the water supply to the Cachuma Project Member Units, beyond what water is naturally available within the Santa Ynez watershed. The Cachuma Project Member Units can



also take advantage of purchasing and receiving supplemental water through the SWP exchange to offset any reduction in local and regional water supplies and to meet increasing customer water demand levels when they occur. During the 2012-2019 drought period, COMB's member agencies relied on the delivery of SWP and imported water for their customers.

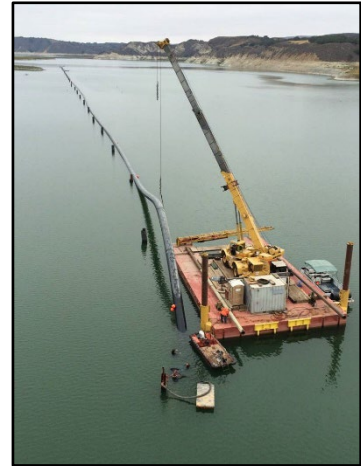
**Modified Upper Release Reliability Project (MURRP):** Completed in 2012, the MURRP provided a pipeline to convey Cachuma Project or State Water Project Water to the South Coast, should the Goleta Reach of the SCC be out of service due to scheduled and/or unexpected repairs. Further, if the South Portal of the Tecolote Tunnel were to fail, the entire SCC would be out of service, disrupting water service to most residents of the South Coast. Construction of the MURRP ensured the reliability and sustainability of water to all South Coast residents if those situations were to occur.

**Lake Cachuma Water Quality and Sediment Management Study:** Climate change has resulted in dry weather conditions which, in turn, have triggered a series of wildfires, adversely impacting the Cachuma Project Watershed. These were: the Zaca Fire (2007), White Fire (2010), Rey Fire (2016), Whittier Fire (2017), and Thomas Fire (2017). These five fires burned approximately 180,000 acres, or two-thirds, of the watershed. As an adaptation measure, COMB completed a two-year study on behalf of, and in coordination with, the COMB Member Agencies for addressing raw surface water quality and sedimentation issues at Lake Cachuma. COMB engaged and assisted two separate environmental and water resources engineering firms to complete the study. The Cachuma watershed had suffered exposure to more than one wildfire in recent times.

The study went beyond identifying fire impacts. It included identification and characterization of issues, development of mitigation and control projects, and management actions that include sampling and data collection, in-lake treatment, erosion control, and watershed management. The study also assessed the impact of drought on fluctuating lake levels, water supply, and water quality. COMB plans to initiate Phase 2 recommended actions during Fiscal Year 2021-22.

## A HISTORY OF SUSTAINABILITY (continued)

**Emergency Pumping Facilities Project:** Water purveyors are dependent on local water supplies as a major source of water. Efficient use of water has long been a priority within the Cachuma Project Service Area. The impacts of climate change include more intense heat waves and frequent periods of drought. During a drought period, the COMB Member Agencies dramatically increase their conservation efforts in order to mitigate the impact of water shortages on the community. Drought conditions can last many years. Reductions in Cachuma Project water supplies have a major impact on water supply management for the COMB Member Agencies.



During the drought that began in 2012, COMB was responsible for the implementation of the Emergency Pumping Facility Project (EPFP), which allowed water to be pumped and conveyed when lake levels were extremely low and unable to flow via gravity into the Tecolote Tunnel. After a series of rain events in 2017, the lake elevation increased and the EPFP was demobilized. The COMB Board authorized the General Manager to enter into an agreement with an external contractor to store key components of the barge. The change order agreement also included an approved amount to re-establish a fully functioning EPFP if conditions require it.

**Lake Cachuma Secured Pipeline Project:** To better prepare for and adapt to future drought events, COMB hired a contractor to perform a preliminary engineering design for the secured pipeline project. The Lake Cachuma Secured Pipeline Project is a more permanent version of the previous EPFP, having a bottom-mounted permanent pipeline component to the site one location. The Secured Pipeline Project will make available the use of additional reservoir water and imported water until sufficient inflow to the lake occurs and the reservoir level returns to a normal operating condition for gravity feed.





### A HISTORY OF SUSTAINABILITY (continued)

**Lake Cachuma Secured Pipeline Project (continued):** A similar pumping facility was temporarily installed and operated in the 1957-1958 and 1990-1991 droughts, and the occasional need for such a facility was envisioned when the reservoir was originally designed and constructed in 1953 by Reclamation. If dry conditions continue, the Secured Pipeline Project could be installed in the summer of 2022. In 2019, the COMB Engineering Division was selected under the Reclamation Drought Resiliency Program for a WaterSMART Drought Resiliency Project grant for \$750,000. Funds from this grant will be applied toward the Secured Pipeline Project.

**SCC Blow-Off Nozzle/Valve Replacement Project:** Rehabilitation of existing valves and addition of secondary valves outside of each blow-off structure is part of this project. The project supports water conservation goals by 1) ensuring that existing valves are in good working order, limiting leaks and water losses during an emergency, and 2) adding secondary valves that limit water losses during normal maintenance procedures, providing redundancy in case of primary valve failure. A secondary valve allows full exercise of inside and outside valves, with minimal water losses discharged into creeks or storm drains. Previously, with only one inside valve available, valve exercising was either limited or water losses were greater when annual valve exercising occurred.



*Air Vent 352+07 Before*



*Air Vent 352+07 After*



*Blowoff 388+10 Before*



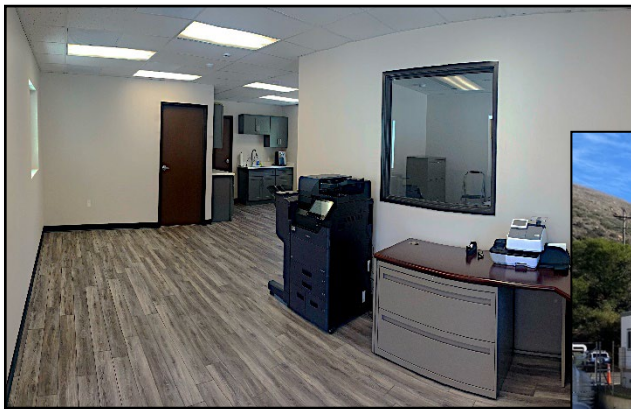
*Blowoff 388+10 After*

## A HISTORY OF SUSTAINABILITY (continued)

**Isolation Valve Projects:** Installation of isolation valves at strategic locations allows water to be conserved during scheduled maintenance or during an emergency pipeline failure. These projects generally include the installation of a temporary bypass line and a new pipeline segment with a large butterfly valve into the SCC. Several laterals, blow-offs, and air vacuum air release structures along the SCC undergo periodic rehabilitation requiring drainage of portions of the SCC. The installed isolation valves divide the pipeline, limiting water losses during rehabilitation preparation. Likewise, in an emergency scenario such as an earthquake, flood, or other event, the isolation valves limit water losses to the downstream environment.



**COMB Office Building Replacement Project:** In Fiscal Years 2021 and 2022, COMB replaced three aging mobile office buildings (circa 1974 - 1993) with newly manufactured mobile offices. These new buildings are built with state of the art sustainable components including environmentally preferred building materials, LED lighting, insulated walls and flooring, automated energy efficient electrical lighting fixtures and switches, automated electrical outlets, efficient heating cooling and ventilation systems, water saving plumbing fixtures, dual paned windows, hardi-backer exterior siding, and drywall interiors. In addition to the cost saving features, these energy efficient buildings provide an environmentally friendly, sustainable office setting for employees to conduct business.



## A HISTORY OF SUSTAINABILITY (continued)

**Biological Opinion and Fish Management Plan:** On behalf of Reclamation, COMB is responsible for the implementation of the 2000 Biological Opinion (BO) and Fish Management Plan (FMP) related to the Cachuma Project on the Santa Ynez River. The BO addresses the effects of the proposed Cachuma Project operations on steelhead and its designated critical habitat in accordance with Section 7 of the Endangered Species Act of 1973.



The purpose of these guidance documents is to implement physical projects and management strategies that will protect, enhance, restore and create new habitat for spawning and rearing of endangered steelhead, while keeping a balance between fish management, other ecological needs, and the delivery of adequate water supplies to customers of local water agencies and groundwater recharge. These activities include ongoing scientific studies along the river, monitoring and recording changing conditions, and implementation of fish passage improvements as outlined in the 2000 BO.

In addition, a consensus based, long-term FMP was developed which provides protection for steelhead/rainbow trout downstream of Bradbury Dam through a combination of water releases from Bradbury Dam through the Hilton Creek watering system, and the removal or modification of numerous fish passage barriers to steelhead on tributaries of the Santa Ynez River. By implementing these actions, stakeholders in the Cachuma Project have created significant additional habitat for steelhead within the Santa Ynez River watershed.

**Hilton Creek Watering System Project:** Streamflow in Hilton Creek below Bradbury Dam is intermittent. The Hilton Creek Watering System is a supplemental water system, the objective of which is to provide a dependable year-round source of cool water to allow fish to survive the summer months until natural flow resumes in the winter. Construction of the watering system was completed in the fall of 1999, operating by gravity flow when flow targets and lake surface elevation allow, or by local electricity (pumped) when necessary.



## A HISTORY OF SUSTAINABILITY (continued)

**Quiota Creek Fish Passage Projects:** Quiota Creek is a tributary of the Lower Santa Ynez River located approximately 8.4 miles downstream of Bradbury Dam and was designated by the National Marine Fisheries Service in 2005 as critical habitat for *Oncorhynchus mykiss* (*O. mykiss*). This critical habitat also contained a number of fish passage barriers preventing the migration of *O. mykiss*.

Beginning with Crossing 6 in 2008, COMB has replaced ten (10) identified passage barriers (Crossings 0B, and 1 through 9) along Quiota Creek with bottomless arched culverts to allow migrating *O. mykiss* access to critical habitat in the upper watershed. COMB completed all crossings in 2020, with Crossing 8 being the last and final crossing along the stretch. Hydro-mulch and hydro-seed was spread throughout the project footprint upon completion of each project to prevent erosion and return the sites to a native and natural condition. After completion, each site is monitored by the affiliated engineer on the project, to ensure the habitats are stable and mitigated.



### A HISTORY OF SUSTAINABILITY (continued)

**Lake Cachuma Surcharge Project:** Completed in 2004, the Surcharge Project was a critical component to provide additional water needed to maintain summer fish-rearing flows and enhance winter migration for steelhead in the Lower Santa Ynez River and Hilton Creek. Four 4-foot flashboards were installed on the Bradbury Dam spillway radial gates, allowing for Lake Cachuma elevation to increase by an additional three (3) feet before it fills to capacity and spills. This surcharge substantially increases the amount of water available in wet years to enhance and maintain downstream fishery flows, and minimizes impacts to water supply.



**Oak Tree Restoration Program:** An Oak Tree Restoration Program was developed to mitigate for projected oak tree losses resulting from periodic rise in lake levels by the surcharging affect. The implementation of the Plan is incremental and spread over several years. This allows for a phased restoration program so that adaptive management can be taken to refine and improve restoration methods over time to increase the success rate. Through Fiscal Year 2020-21, COMB has planted 5,350 oak trees near Lake Cachuma.



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## SUSTAINABILITY PLAN STRUCTURE



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## A VISION FOR A SUSTAINABLE ORGANIZATION

To be a sustainable organization, COMB will adhere to our core values and guiding principles which means:

- We lead by example.
- We are a resilient organization.
- We evaluate success through a triple bottom line lens – people, planet and prosperity.
- We steward our natural resources for present and future generations.
- We are mindful of the carbon footprint caused by our operations.


**Triple Bottom Line** is a concept that takes into account the full cost of providing services: people (social responsibility), planet (environmental responsibility), and prosperity (monetary responsibility).

## OUR POLICY STATEMENT AND MISSION

COMB is committed to sustainable practices and the stewardship of the environment to exemplify how local government can support and enhance our natural resources, while continuing to nourish a vibrant, diverse, and healthy economy for the people of Santa Barbara County. COMB will implement this Plan by modifying its internal operations to incorporate sustainable practices in all aspects of its ventures, including operation and maintenance of the Cachuma Project facilities, watershed and habitat protection, fleet management, procurement and recycling practices. COMB will also incorporate the Plan framework into strategic planning documents.

As we move towards a sustainable society, we will need to ensure that the ecological, economic, and social aspects of our lives no longer compete with each other. Rather, it will be necessary for these elements to function as complementary pieces of a tightly integrated union.

COMB is committed to providing its core services while maintaining a balanced approach to human and environmental needs. Our actions are guided by the COMB mission:



*“To provide a reliable source of water to our Member Agencies in an efficient and cost effective manner for the betterment of our community.”*

## SUSTAINABILITY GUIDING PRINCIPLES

COMB is dedicated to protecting, preserving, and restoring the natural, social and economic environment for which we are responsible while performing the challenges of everyday operations. To that end, COMB is committed to integrating sustainability practices into ordinary operations and long-term resource management. We will depend on established guiding principles, well thought-out initiatives, and the integration of those principles with other planning documents to achieve our goals.

Sustainability can be divided into three main pillars for an organization: **economic, environmental, and social** practices. If any one of the pillars are undermined, then the system as a whole is unsustainable. It is important that COMB is working on sustainability components as a whole, which means taking all three pillars into consideration when making decisions and effecting policy.

The guiding principles included in this Plan are derived from the pillars of sustainability. Each guiding principle will be interwoven into our daily activities and are described below.

### ❖ Environmental Sustainability: Stewards of Natural Resources

**Environmental Sustainability** means that natural resources such as land, water, and timber are finite and need to be consumed carefully in order to maintain a sustainable planet. Conserving our natural resources and protecting our global ecosystem will support health and wellbeing now and in the future.



Protecting the environment while providing reliable water conveyance, meeting critical compliance measures and providing valuable service to our Member Agencies takes commitment supported by effective processes, leading technologies, and dedicated staff. Diminishing our dependence on resources such as electricity and fossil fuels will position COMB for greater autonomy in the future. In addition, environmental sustainability actions will assist COMB in adapting to impacts related to climate change such as drought, wildfires, and natural disasters.

## SUSTAINABILITY GUIDING PRINCIPLES (continued)

❖ Economic Sustainability: Efficiency, Value and Financial Responsibility

**Economic Sustainability.** In an environmental framework, "sustainability" generally means finding a way to use resources in a manner that prevents their depletion. In an economic context, the phrase "sustainability" is commonly used to describe an organization that is able to sustain itself over the long term, perpetuating its ability to fulfill its mission. Economic sustainability includes the concepts of financial stability, as well as leadership succession planning, adaptability, and strategic planning.

COMB's revenues are equal to the expenditures approved in the annual operating budget. COMB's primary fiscal objective is to provide the highest possible level of service to our Member Agencies and stakeholders without impairing COMB's financial condition. COMB will make every effort to keep current expenditures less than current assessments and revenues. Current expenditures are defined as operating expenses, debt payment and infrastructure and habitat improvement projects. COMB operates within the approved budgetary amounts to avoid subsequent assessments to our Member Agencies.

The COMB Infrastructure Improvement Plan (IIP) is a primary tool that COMB uses to plan for economic sustainability. Efficiently managed and maintained infrastructure reduces the frequency of more serious and costly repairs in the future. IIP projects impacting the SCC are assessed and evaluated for criticality. Projects are then planned for the current fiscal year as appropriate and projected over the next five years, to address the most critical infrastructure needs so that water loss and capital costs are reduced.



Operating in a productive, cost-effective and efficient manner will ensure sound financial stability and provide value to our Member Agencies and stakeholders. Integrating long-range planning documents such as our comprehensive budget document into our sustainability practices provides for safeguards against uncertain periods of volatility such as natural disasters, climate change impacts, and regulatory changes in the environment. COMB is dependent on our Member Agencies to support our financial existence and in turn, we strive to provide them with value in achieving our mission.

**SUSTAINABILITY GUIDING PRINCIPLES** (continued)**❖ Social Sustainability: Promote Well-being for Employees and Community**

**Social Sustainability** is the ability of an organization to make provision for the social wellbeing of current and future generations.



While the first two pillars of the sustainability focus on environmental resources and economics, social sustainability is concerned with how an organization's employees and internal / external stakeholders are affected and treated by the entity. A socially sustainable organization cares about its employees' welfare and maintains a connection

with its workforce and stakeholders through fostering an equitable, culturally and socially diverse atmosphere.

Socially-oriented organizations achieve sustainability by providing security, individual development and fostering overall healthy relationships with employees, suppliers and partners. COMB maintains updated personnel policies and procedures to promote a safe, healthy working environment that places emphasis on acknowledging and rewarding staff's work efforts in order to create a long term loyal workforce. By operating in an open and transparent manner, COMB staff continues to foster and build valuable relationships with our external partners within the Cachuma Project and our surrounding communities.

These three pillars of sustainability, environment, economic and social, will become increasingly important to ethical agency practices as environmental pressures increase, and especially so in fragile areas prone to sea-level rise, drought, and fire hazards. Every COMB decision and project will require thought and perhaps some level of innovation to act in ways that will benefit as many of these sustainability principles as possible. To that end, COMB will have a positive impact on the stakeholders we serve by making strategic decisions and promoting public policies that support sustainability. The Plan is designed to assist staff in decision making now and in years to come.

**SUSTAINABILITY INITIATIVES, GOALS AND OBJECTIVES**

As COMB moves forward, staff is committed to upholding the core values that have shaped its standard of excellence while adapting to changing conditions and environment. As part of the planning process, COMB focused on the following six strategic initiatives in the development of this Plan.



## SUSTAINABILITY INITIATIVES, GOALS AND OBJECTIVES (continued)

**Initiative 1** Water Supply Reliability

**Goal:** Sustain a safe, reliable water supply for our Member Agencies by:

**Objectives:**

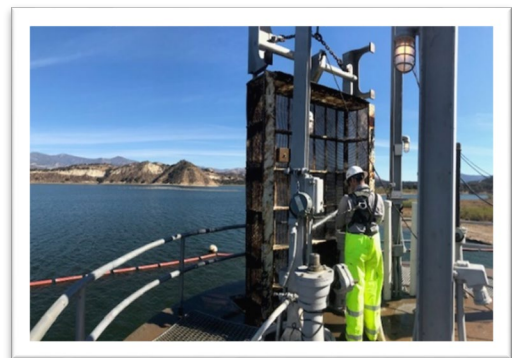
- Protecting and maintaining the water conveyance system.
- Analyzing watershed conditions - watershed stewardship.
- Implementing drought response and resiliency measures.
- Storing and conveying state water imports.
- Monitoring / defending against natural and human-made disasters.

**Initiative 2** Distribution Facilities Improvements

**Goal:** Identify, prioritize and implement projects necessary to protect, improve, and sustain the Cachuma Project conveyance system and appurtenant structures by:

**Objectives:**

- Continuing infrastructure improvement planning.
- Developing and updating asset management plan.
- Updating the risk and resiliency plan.
- Improving facilities security and emergency preparedness plans.
- Continuing technology improvements toward operation and maintenance activities.



## SUSTAINABILITY INITIATIVES, GOALS AND OBJECTIVES (continued)

## Initiative 3

## Environmental Stewardship and Public Trust Resources

**Goal:** Continue to monitor and mitigate for changing climate conditions, develop and implement strategies to increase sustainability of the steelhead trout population and improve fish passages along the Santa Ynez River by:

**Objectives:**

- Implementing the provisions of the 2000 BO.
- Protecting and enhancing steelhead habitats in accordance with the FMP.
- Adhering to environmental regulatory requirements.
- Improving watershed protection.
- Working to mitigate climate crisis effects of COMB operations.



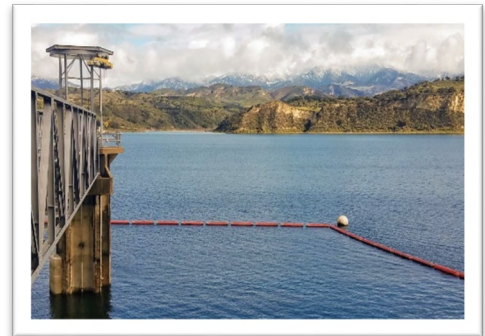
## Initiative 4

## Cost-Effectiveness and Value

**Goal:** Maintain and improve the cost effectiveness and value of COMB services to our Member Agencies by:

**Objectives:**

- Managing and maintaining infrastructure efficiently.
- Continuing to review and prioritize IIP.
- Investing in system improvements and sustainably efficient equipment for better, more economical results and climate change resiliency.
- Enhancing asset management program.
- Leveraging technology to improve system.



## SUSTAINABILITY INITIATIVES, GOALS AND OBJECTIVES (continued)

## Initiative 5

## Organizational Policies and Financial Responsibility

**Goal:** Operate within approved policies in a productive, transparent and efficient manner to ensure sound financial stability by:

**Objectives:**

- Advancing the development of policies and procedures in an ever changing legal and regulatory environment.
- Enhancing the annual financial audit practices and budget document formulation.
- Developing short and long term financial plans.
- Adhering to risk transfer practices.
- Leveraging advances in technology.



## Initiative 6

## Foster Leadership and Strengthen Workforce Capabilities

**Goal:** Continue to promote a safe and positive work environment and provide equal opportunities for employees to use their diverse talents to grow professionally and prepare for challenges of the future by:

**Objectives:**

- Promoting a safe and socially equitable working environment.
- Providing training and continuing education.
- Advancing licensing and certification for staff members.
- Investing in professional growth opportunities.
- Reinforcing employee retention through workplace / leadership practices.





## INTEGRATION OF SUSTAINABILITY INITIATIVES WITH MISSION AND PLANNING DOCUMENTS

The Plan seeks to coordinate the many existing COMB plans, policies, programs and actions that encompass and support sustainability initiatives. The Plan allows COMB to articulate where we are now, where we should be, and establishes goals and implementable actions that puts the agency on a clear path to achieve sustainability for future generations to come.

### ASSOCIATED PLANNING DOCUMENTS

#### Integrated Regional Water Management (IRWMP) Plan:

The IRWMP is a collaborative effort created by a group of cooperating partners with mutual interest who have identified and implemented water management solutions to achieve social, environmental, and economic objectives throughout the Central Coast region. COMB has been a part of the group's formation since 2007, participating in monthly discussions to implement sustainable water projects in the area.



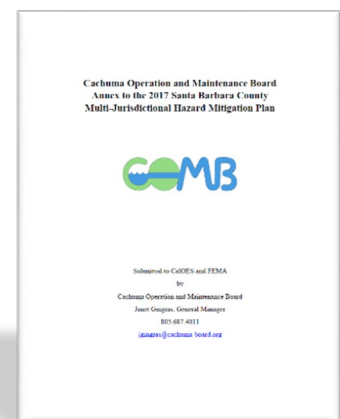
COMB's affiliation with IRWMP made it possible to apply for and receive grant monies with funding applied to the much needed MURRP and EPFP. Participation in IRWMP continues to allow COMB to be aware of various funding opportunities which may contribute to improvement and sustainability of the SCC infrastructure.

#### COMB Hazard Mitigation Plan:

The purpose of a Hazard Mitigation Plan (HMP) is to identify policies and actions that can be implemented to reduce risk and future losses from disasters. HMPs create a framework for risk-based decision-making to reduce damage to lives, property and local economies by focusing resources on the greatest risks and vulnerabilities

State, local and tribal governments benefit from HMP adoption in the following ways:

- Hazard mitigation planning creates a more disaster-resistant and resilient community.
- HMP adoption allows access to hazard mitigation assistance programs and funding, including Hazard Mitigation Grant Programs, Pre-Disaster Mitigation, Flood Mitigation Assistance and Severe Repetitive Loss Grant Programs.

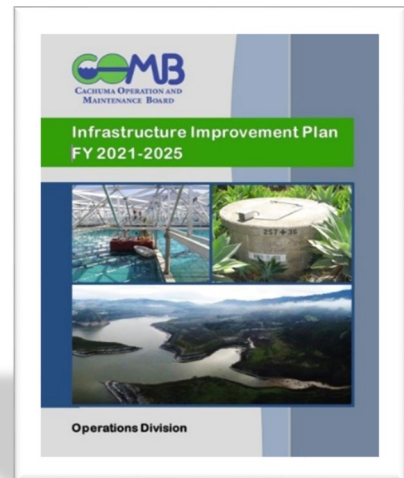


## ASSOCIATED PLANNING DOCUMENTS (continued)

### **COMB Infrastructure Improvement Plan (IIP):**

The IIP formalizes the strategy for implementation of capital projects and programs needed to carry out the goals and policy objectives of the COMB Board. The IIP is organized and structured to identify and prioritize rehabilitation projects necessary to protect, improve, and sustain a reliable source of water conveyed from the Cachuma Project to the COMB Member Agencies.

Projects outlined in the IIP have been identified based on Reclamation inspection recommendations, COMB asset inventory analysis, and other staff observations and recommendations. The identification of a project within the five-year plan does not guarantee construction. The initiation of any project requires Board approval for a project to advance to design and ultimately construction. Additionally, the Board of Directors has the ongoing ability to review and revise projects based upon unforeseen conditions, priorities, and financial resources.



### **Injury & Illness Prevention Program (IIPP):**

The purpose of the COMB IIPP is to create an organized approach to accident prevention that meets California regulatory compliance. In line with OSHA safety regulation, our IIPP aims to provide employees with the training, communication and knowledge necessary to reduce employee injuries and perform operating procedures safely, at all times.

Valuing safety and operations knowledge within the workforce leads to retention of experienced employees who are far less prone to accidents and can save organizations thousands of dollars in workers compensation, both of which impact the social and economic aspects of sustainability.





## IMPLEMENTING SUSTAINABILITY INITIATIVES



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## IMPLEMENTING SUSTAINABILITY INITIATIVES

COMB has identified thirty-six tasks that demonstrate our commitment to become a more sustainable organization. Several of these tasks focus on actions necessary to address the current climate crisis with the intent of achieving carbon neutrality. These tasks are further aligned with COMB's mission and therefore puts our purpose into action. Tasks were selected after considerable research as well as an evaluation of COMB's current structure, organizational practices, assets and operations. Tasks have been systematized into the six initiatives discussed in the previous section that supports a balanced approach to our success.

COMB acknowledges that many of these tasks exist in our ongoing management practices and planning documents such as the IIP. The Plan intentionally combines these efforts into one document that will be used as tool for informed decision-making going forward. The document will be used to monitor and measure the benefits of our actions to the COMB Board, our Member Agencies and stakeholders.



## SUSTAINABILITY INITIATIVES

Table 4.1 provides a summary of the thirty-six sustainability tasks within the six initiatives and their expected completion date as determined by COMB staff.

**Table 4.1 - Sustainability Tasks FY 2022 – 2027**

| Ref        | Project Name  | Expected Completion |
|------------|---|---------------------|
| <b>1.0</b> | <b>Water Supply Reliability</b>   |                     |
| 1.1        | Task - EPF Secured Pipeline   | Summer 2022         |
| 1.2        | Task - EPF Pump Station (if needed)   | Summer 2023         |
| 1.3        | Task - North Portal Intake Tower Seismic Assessment   | FY 2026             |
| 1.4        | Task - Continue to monitor the impact of changing climate conditions and disastrous events on watershed | FY 2022             |
| 1.5        | Task - Water Quality Buoy / Sampling program  | Ongoing             |
| 1.6        | Task - Jet Flow Valve Replacement   | FY 2026             |
| <b>2.0</b> | <b>Distribution Facilities Improvements</b>   |                     |
| 2.1        | Task - Rehabilitate SCC Lateral Structures  | FY 2024             |
| 2.2        | Task - SCADA Upgrades   | FY 2022             |
| 2.3        | Task - AVAR/BO Rehabilitation Program   | FY 2023             |
| 2.4        | Task - SCC Isolation Valve installation   | FY 2022             |
| 2.5        | Task - Critical Control Valve Replacement   | FY 2030             |
| 2.6        | Task - Meter Replacement Program  | FY 2030             |
| <b>3.0</b> | <b>Environmental Stewardship and Public Trust Resources</b>   |                     |
| 3.1        | Task - Implement regulatory requirements per current and future BO                                      | Ongoing             |
| 3.2        | Task – Inspect and maintain completed fish passage projects   | Ongoing             |
| 3.3        | Task - Maintain Oak Tree program throughout required period   | FY 2025             |
| 3.4        | Task – Manage USGS Stream Gauge Program   | Ongoing             |
| 3.5        | Task – Install and maintain riparian corridor exclusionary fencing                                      | Ongoing             |
| 3.6        | Task - Monitor habitat through technology based methodologies   | FY 2022             |

## SUSTAINABILITY INITIATIVES (continued)

Table 4.1 - Sustainability Tasks FY 2022 – 2027 (Continued)

| Ref        | Project Name   | Expected Completion |
|------------|--|---------------------|
| <b>4.0</b> | <b>Cost-Effectiveness and Value</b>  |                     |
| 4.1        | Task – Identify and prioritize Infrastructure Improvement Projects                               | Ongoing             |
| 4.2        | Task - Research grant funding opportunities for infrastructure and habitat improvements projects | Ongoing             |
| 4.3        | Task – Perform COMB Operations Annual Work Plan  | Ongoing             |
| 4.4        | Task - Investigate and implement new technologies to advance operational efficiencies            | Ongoing             |
| 4.5        | Task – Explore alternate sources of renewable energy   | FY 2025             |
| 4.6        | Task – Develop a Green Fleet Policy  | FY 2024             |
| <b>5.0</b> | <b>Organizational Policies and Financial Responsibility</b>                                      |                     |
| 5.1        | Task – Create an organizational culture of sustainability  | Ongoing             |
| 5.2        | Task – Uphold transparency principles  | Ongoing             |
| 5.3        | Task – Operate within approved financial resources   | Ongoing             |
| 5.4        | Task – Invest in “Commitment to Excellence” Program through ACWA JPIA                            | FY 2023             |
| 5.5        | Task – Participate in the GFOA Award Programs  | Ongoing             |
| 5.6        | Task – Explore new technologies to be more productive and reduce disposable waste                | Ongoing             |
| <b>6.0</b> | <b>Foster Leadership and Strengthen Workforce Capabilities</b>                                   |                     |
| 6.1        | Task - Annual Personnel Policy and Employee Handbook updates                                     | Ongoing             |
| 6.2        | Task – Promote social well-being within the organization   | FY 2023             |
| 6.3        | Task - Enroll Management in Leadership program through ACWA JPIA                                 | FY 2023 / 2024      |
| 6.4        | Task - Provide pathway to D3 certifications for operations personnel                             | FY 2022 / 2023      |
| 6.5        | Task – Develop Employee Retention plan to promote longevity                                      | FY 2023 / 2024      |
| 6.6        | Task – Participate in the ACWA JPIA Vector Solutions Training Program                            | Ongoing             |

## SUSTAINABILITY INITIATIVES (continued)

## Initiative 1 - Water Supply Reliability

**Goal:** Sustain a safe, reliable water supply for our Member Agencies.

## Task 1.1

## • Emergency Pumping Facility Secured Pipeline

Water is conveyed from Lake Cachuma to the South Coast of Santa Barbara County through the Tecolote Tunnel Intake Tower via gravity flow. If the lake elevation drops below the sill of Gate 4 (678') of the tower, water has to be pumped from the lake through the use of the EPFP. The previous installations of the EPFP were temporary facilities with a floating pipeline and floating pump station.



The EPF Secured Pipeline Project includes the installation of a 3,600-ft long HDPE pipeline that will be anchored to the bottom through the use of pre-cast concrete anchor weights. The pipeline will connect to Gate 5 of the tower and extend to the site one location. During times of drought, the pipeline would connect to a floating pumping barge to ensure continued water deliveries to the COMB Member Agencies.

Project Completion Date: Summer 2022

Sustainability Impacts:

The Secured Pipeline Project will allow COMB and our Member Agencies to better prepare for and adapt to future drought events. The Project will make available the use of additional reservoir water and imported water until sufficient inflow to the lake occurs and the reservoir level returns to a normal operating condition. By securing the transmission pipeline portion of the EPF to the intake tower, COMB and its Member Agencies will realize a cost savings by avoiding the installation of a temporary pipeline each time the lake elevation drops below gravity feed. The pipeline will also reduce the frequency that the floating pump station would be deployed and then subsequently removed, potentially without being placed into operation.



**SUSTAINABILITY INITIATIVES** (continued)**Task 1.1 Secured Pipeline Project** (continued)

In addition, during non-drought times an intake screen at the Gate 5 elevation would allow access to colder, deeper water which typically has less organic carbon. The ability to draft colder deeper water allows the reduction in disinfection byproducts and reduced treatment costs.

**Task 1.2**

- **Emergency Pumping Facility (EPF) Pump Station (if needed)**

The EPF Pump Station Project would be required to be installed when the lake levels are projected to fall below the intake gates at the tower. The pumping facility provides a lifeline delivery of Cachuma Project water and imported SWP water to 200,000 residents on the South Coast of Santa Barbara County during times of drought. This project would be installed 120 days before the lake level recedes to 685' elevation.



Project Completion Date: Summer 2023

**Sustainability Impacts:**

The EPF is powered by a temporary electrical connection through Pacific Gas & Electric (PG&E) which is contracted with the Central Coast Community Energy (3CE) program to provide clean and renewable energy to PG&E customers. The EPF will improve emergency preparedness by delivering critical water supplies during persistent drought. The system provides conveyance for both Cachuma and State Water imports at a fraction of the cost of purchased water on the open market. Without the drought-period operation of an emergency pump station, water service would be interrupted, causing a widespread immediate threat to public health and safety to the South Coast of Santa Barbara County.

**Task 1.3**

- **North Portal Intake Tower Seismic Assessment**

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. This project is scheduled to be performed when the lake level exposes a large portion of the intake tower.

**SUSTAINABILITY INITIATIVES** (continued)**Task 1.3 – North Portal Intake Tower Seismic Assessment** (continued)

Project Completion Date: FY 2026

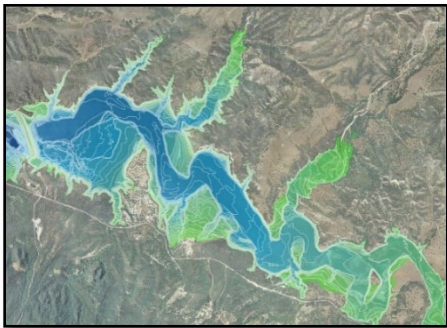
Sustainability Impacts:

The uncertainty in structure reliability during a seismic event could result in losing the ability to deliver water to the South Coast while emergency repairs are being made.

**Task 1.4**

- **Continue to monitor the impact of changing climate conditions and disastrous events on watershed**

To better understand and mitigate the impact of climate change and disastrous events, such as wildfires and drought, COMB recently completed a two-year study on behalf of, and in coordination with, the COMB Member Agencies for addressing raw surface water quality and sedimentation issues at Lake Cachuma. The report identified Total Organic Carbon (TOC) and algal blooms as priority issues. The consultant also recommended a suite of management actions designed to increase understanding of water quality challenges.



COMB plans on engaging a qualified consultant to provide professional services to complete the Lake Cachuma Organic Carbon / Phosphorous Sampling and Source Investigation project. The Project will, at a minimum, establish the primary source of TOC in Lake Cachuma, and will take sediment cores from the lake to characterize phosphorous (P) mass and quantify the rate of dissolved P flux under oxic and anoxic conditions.

Project Completion Date: FY 2022

Sustainability Impacts:

The project is aimed to increase the understanding of lake dynamics and provide a pathway for effective treatment solutions to the Member Agencies' water treatment facilities and to be better prepared for changing climate conditions and future disasters.

**SUSTAINABILITY INITIATIVES** (continued)**Task 1.5****• Water Quality Buoy / Sampling program**

The Lake Cachuma Evaporation and Water Quality Buoy is a buoy-based weather station for improved water quality and environmental monitoring, including an estimation of evaporative losses from the reservoir.

This project addresses a critical deficiency for water quality management, specifically, continuous and more granular water quality data needed from Lake Cachuma to inform critical decision making at member unit treatment facilities, including toxic algal bloom detection monitoring for early warning and proactive treatment and total organic carbon for management of trihalomethane formation.

Water quality samples are taken bi-weekly at the lake for data recording and quality indicators of source water. The Buoy was installed in Fiscal Year 2019.

Project Completion Date: Ongoing

*Sustainability Impacts:*

The Lake Cachuma Evaporation and Water Quality Buoy will increase environmental monitoring accuracy and through advance notification, provide financial savings to the treatment facilities.



**SUSTAINABILITY INITIATIVES** (continued)**Task 1.6****• Jet Flow Valve Replacement**

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 project consists of producing designs and specifications to manufacture a new valve body and to rebuild using new and previously purchased internal components.

Project Completion Date: FY 2026

*Sustainability Impacts:*

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 which would cause social, financial and environmental impacts to the communities our Member Agencies serve. The current valve, after being removed, would be rebuilt using new components and would be kept on side and used as a redundant valve in case of failure.



**SUSTAINABILITY INITIATIVES** (continued)**Initiative 2 - Distribution Facilities Improvements**

**Goal:** Identify, prioritize and implement projects necessary to protect, improve, and sustain the Cachuma Project conveyance system and appurtenant structures.

**Task 2.1****• Rehabilitate SCC Lateral Structures**

There are forty-four 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.

Twenty-six of the existing lateral appurtenances in the lower reach pose an operational risk due to age, corrosion, and unreliable valve operating conditions. This project would replace corroded pipe and inoperable valves and air vents on SCC lateral connections.

Project Completion Date: FY 2024

**Sustainability Impacts:**

The dependability of these valves is necessary to provide reliable water service to customers served in sections of the Montecito and Carpinteria Water District Boundary areas. Without rehabilitation, a major facility failure in multiple locations could occur with potential water contamination which could affect the environment, cause substantial financial and social impacts and lead to an unsustainable conveyance system.



## SUSTAINABILITY INITIATIVES (continued)

## Task 2.2

## • SCADA Upgrades

The “Supervisory Control and Data Acquisition” system (SCADA) serves to collect important monitoring data on flows, reservoir elevations, alarms and communication, turbidity, pH, temperature, and valve positions. This project involves the replacement of all legacy PLCs in their existing control panels, installation of new PLC processors, software, and I/O modules.



Project Completion Date: FY 2022

Sustainability Impacts:

The SCADA system increases the efficiency of COMB staff by providing notification alarms for operational staff to investigate, which enhances system reliability and sustainability.

## Task 2.3

## • AVAR/BO Rehabilitation Program



Combination air vacuum air release valves (AVARs) are located at high points along the pipeline and act to expel air automatically and relieve vacuum accumulation in pipes. Blow-off structures exist on all low points of a water distribution system. This project proposes to rehabilitate these aging components and bring them up to standards.

Project Completion Date: FY 2023

Sustainability Impacts:

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. 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. Without rehabilitation, a major facility failure in multiple locations could occur with potential water contamination which could affect the environment, cause substantial financial and social impacts and lead to an unsustainable conveyance system.

**SUSTAINABILITY INITIATIVES** (continued)**Task 2.4****• SCC Isolation Valve installation**

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. A 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.

Project Completion Date: FY 2022

*Sustainability Impacts:*

The installation of the isolation valve would enable the conveyance system to be shut-down in times of emergency or for routine maintenance on the system. The sustainability benefit of the project would bring economic and social value to the customers our Member Agencies serve by protecting the life of the pipeline while ensuring water reliability.

**Task 2.5****• Critical Control Valve replacement**

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.

Project Completion Date: FY 2030



**SUSTAINABILITY INITIATIVES** (continued)**Task 2.5 - Critical Control Valve Replacement** (Continued)*Sustainability Impacts:*

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 thus making the system both economically and environmentally sustainable by improving system resiliency and providing water reliability.

**Task 2.6****• Meter Replacement Program**

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 in need of replacement during the next five years.

Project Completion Date: FY 2030

*Sustainability Impacts:*

This project, if not completed, could impact system operations and water accounting accuracy and jeopardize compliance with Section 64561 of Titles 17 and 22 California Code of Regulations. This project addresses a critical deficiency and will have economic and environmental long-term sustainability impacts by locating and preventing water loss and improved water accounting through accurate reading of usage.





## SUSTAINABILITY INITIATIVES (continued)

## Initiative 3 - Environmental Stewardship and Public Trust Resources

**Goal:** Continue to monitor and mitigate for changing climate conditions, develop and implement strategies to protect our natural resources, increase the sustainability of the steelhead trout population and improve fish passages along the Santa Ynez River.

## Task 3.1

- Implement regulatory requirements per current and future BO

In compliance with the 2000 BO and as described in the FMP and the monitoring program in the 2000 Revised Biological Assessment, the COMB Fisheries Division staff will continue to conduct routine monitoring of steelhead/rainbow trout population and their habitat on the Lower Santa Ynez River (LSYR) below Bradbury Dam. These activities include lake profiles, snorkel surveys, beaver dam surveys, redd surveys, migrant trapping and target flow monitoring. The results of these activities are reported in the Annual Monitoring Summary.

Project Completion Date: Ongoing

Sustainability Impacts:

By implementing these actions, stakeholders in the Cachuma Project have created significant additional habitat for steelhead within the Santa Ynez River watershed.



## SUSTAINABILITY INITIATIVES (continued)

## Task 3.2

- Inspect and maintain completed fish passage projects

COMB staff has completed ten (10) fish passage projects on Quiota Creek. All projects are bottomless arched culverts, some with in-stream elements such as rock weirs for grade control and root wads to create fish habitats. COMB contracts with an external consultant to perform an annual survey of each project which includes a hydraulic review of the grade control structures and instream elements. In addition, after high stormflow events, COMB inspects all project sites to assure the crossing is functioning as designed and that any protective measures remain properly in place.



Estimated Completion Date: Ongoing

Sustainability Impacts:

Routine inspection and maintenance ensures that any adjustments necessitated by changes to the site can be made quickly so that fish habitat is not negatively impacted.

## Task 3.3

- Maintain Oak Tree program throughout required period

COMB will continue its efforts of planting and maintaining oak trees as part of the Lake Cachuma Oak Tree Program in order to meet its mitigation objective of 4,721 alive and self-sustaining trees by 2025. The results of the most recent 2020 annual tree inventory provided that 5,350 oak trees have been planted to-date and 57 trees have been adopted for a total of 5,407 trees. Of that amount, 4,341 oak trees are alive which represents a survival rate of 80.28%. The number still to be planted to meet the program objective is 380 trees.



Project Completion Date: 2025

Sustainability Impacts:

Forest regrowth is a form of carbon sequestration which is the process of capturing and storing atmospheric carbon dioxide. It is one method of reducing carbon dioxide in the atmosphere with the goal of reducing global climate change.

## SUSTAINABILITY INITIATIVES (continued)

## Task 3.4

## • Manage USGS Stream Gauge Program

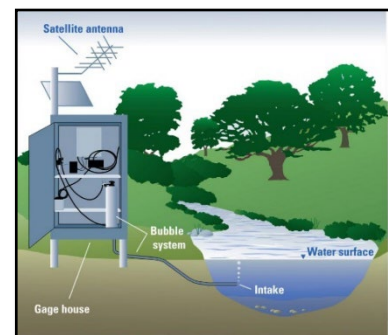
The USGS stream-gauging program provides hydrologic information needed to help define, use, and manage water resources in the Santa Ynez River system. The program provides a continuous, well-documented, well-archived, unbiased, and broad-based source of reliable and consistent water data. Because of the consistent, prescribed standards by which the data are collected and processed, the data from individual stations are commonly used for purposes beyond the original purpose for an individual station.

Project Completion Date: Ongoing

Sustainability Impacts:

Benefits of the program include the following:

- Characterizing current water-quality conditions.
- Monitoring BO compliance with minimum target flow requirements.
- Enhancing the public safety by providing data for forecasting and managing floods.



## Task 3.5

## • Install and maintain riparian corridor exclusionary fencing

Cattle can negatively impact the riparian corridor and instream habitat for native *O. mykiss* by denuding vegetation causing erosion, increasing turbidity, trampling spawning sites, and reducing habitat complexity. This project will involve the ongoing maintenance and improvement of the already successful exclusionary cattle fencing project along the LSYR tributaries.

Project Completion Date: Ongoing

Sustainability Impacts:

COMB's efforts will improve and protect critical habitat for native *O. mykiss* and provide assistance to local ranchers.



## SUSTAINABILITY INITIATIVES (continued)

## Task 3.6

## • Monitor habitat through technology based methodologies



The California Department of Fish and Wildlife (CDFW), under permit from the National Marine Fisheries Service (NMFS), has PIT (Passive Integrated Transponders) tagged multiple fish (*Oncorhynchus mykiss*, *O. mykiss*) in the LSJR basin in association with fish rescues conducted in the late spring of 2021.

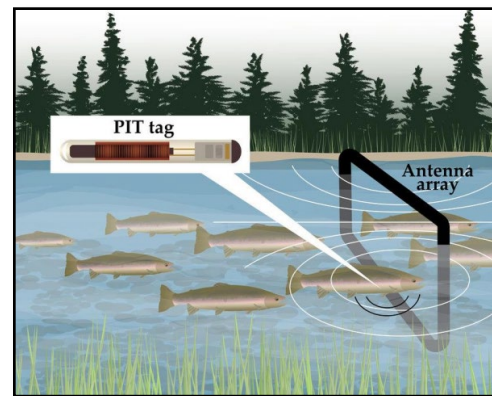
The COMB Fisheries Division will initiate a PIT tag monitoring program starting with a feasibility study to learn about the technology including methods for data analysis.

Project Completion Date: FY 2022

Sustainability Impacts:

The objectives of the monitoring effort include:

- To monitor movement of *O. mykiss* within the LSJR basin which would include anadromous fish from the ocean and resident fish within the watershed to document the migration timing, abundance, survival rate, and age distribution.
- Estimate *O. mykiss* outmigrant smolt and returning adult migration rates that could be correlated with environmental factors.
- Evaluate and document the effectiveness of required regulatory target flow releases from Lake Cachuma to the LSJR to benefit the downstream fishery by facilitating fish movement and survival.



## SUSTAINABILITY INITIATIVES (continued)

## Initiative 4 - Cost-Effectiveness and Value

**Goal:** Maintain and improve the cost effectiveness and value of COMB services to our Member Agencies.

## Task 4.1

## • Identify and Prioritize Infrastructure Improvement Projects

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 IIP formalizes the strategy for implementation of capital projects and programs needed to carry out the goals and policy objectives of the Board.

The IIP is updated prior to the annual budget presentation and submitted to the Operations Committee for review and comment. Following Committee review and recommendations, the IIP and its annual amendments are presented to the Board of Directors for final approval.

Project Completion Date: Ongoing

*Sustainability Benefits:*

The IIP is organized and structured to identify and prioritize rehabilitation projects necessary to protect, improve, and sustain a reliable source of water conveyed from the Cachuma Project to the South Coast communities of Santa Barbara County.



## SUSTAINABILITY INITIATIVES (continued)

## Task 4.2

- Research grant funding opportunities for infrastructure and habitat improvements projects

COMB will continue to research grant funding opportunities for infrastructure and habitat improvements projects in an effort to offset project costs otherwise funded through member assessments. COMB has developed a grant program by utilizing a team of staff members to write proposals, administer grants and carry out grant contracts. COMB has applied for and received various federal and state contracts for habitat enhancement, fisheries projects within the Lower Santa Ynez River drainage and South Coast pipeline improvement projects. In the last ten years, COMB has collected \$12.4M in grant funds, as shown in the following table.

Table 4.2 - Grant Revenues - Previous Ten Fiscal Years

| Fiscal Year  | Grantor                                    | Project                                  | Amount               |
|--------------|--|--|----------------------|
| 2011-12      | CA Department of Water Resources           | Modified Upper Reach Reliability Project | \$ 2,886,072         |
| 2011-12      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 2              | 700,528              |
| 2011-12      | Pacific States Marine Fisheries Commission | Cross Creek Ranch Weir Repairs           | 8,940                |
| 2012-13      | CA Department of Water Resources           | Modified Upper Reach Reliability Project | 313,928              |
| 2012-13      | California Wildlife Conservation Board     | Quiota Creek Crossing No. 7              | 358,103              |
| 2012-13      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 7              | 400,108              |
| 2013-14      | Fish America Foundation                    | Cattle Exclusionary Fencing Project      | 17,935               |
| 2013-14      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 1              | 521,141              |
| 2013-14      | California Wildlife Conservation Board     | Quiota Creek Crossing No. 1              | 150,000              |
| 2014-15      | IRWMP Proposition 84 Drought Round         | Emergency Pumping Facilities Project     | 1,037,828            |
| 2015-16      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 3              | 705,205              |
| 2016-17      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 0A             | 604,638              |
| 2016-17      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 4              | 937,838              |
| 2017-18      | FEMA/CalOES                                | Thomas Debris Flow                       | 121,266              |
| 2017-18      | Reclamation                                | North Portal Debris Boom                 | 35,000               |
| 2017-18      | County of Santa Barbara                    | North Portal Debris Boom                 | 30,000               |
| 2018-19      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 5              | 893,287              |
| 2018-19      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 9              | 993,121              |
| 2019-20      | California Department of Fish and Wildlife | Quiota Creek Crossing No. 8              | 1,010,700            |
| 2019-20      | FEMA/CalOES                                | Sycamore Canyon Slope Stabilization      | 562,024              |
| 2019-20      | ACWA JPIA                                  | Wellness Grant                           | 448                  |
| 2020-21      | FEMA/CalOES                                | Sycamore Canyon Slope Stabilization      | 3,737                |
| 2020-21      | National Fish and Wildlife Foundation      | Quiota Creek Crossing No. 8              | 43,280               |
| <b>Total</b> |  |  | <b>\$ 12,335,127</b> |

Project Completion Date: Ongoing

Sustainability Benefits:

The utilization of these grants has assisted COMB in accomplishing required fisheries restoration and habitat improvement projects as well as vital infrastructure improvement projects while avoiding subsequent assessments to the COMB Member Agencies.

## SUSTAINABILITY INITIATIVES (continued)

### Task 4.3

#### • Perform COMB Operations Annual Work Plan

The COMB Operations Division has the responsibility to operate, repair and maintain all Cachuma Project facilities from the Intake Tower at Lake Cachuma to the Carpinteria Reservoir. Under the Annual Work Plan, Operation and Maintenance staff performs routine maintenance on the distribution and storage system.

Project Completion Date: Ongoing



#### Sustainability Benefits:

The Annual Work Plan sets forth all activities necessary to ensure system reliability, address deficiencies and identify projects to be included in the Infrastructure Improvement Program of work.

### Task 4.4

#### • Investigate and implement new technologies to advance operational efficiencies and reduce impacts of climate change

COMB recognizes the importance of technology to increase operational efficiencies and reduce impacts of climate change. For example, the use of GIS technologies for the mapping of the SCC pipeline and appurtenances have been essential to facilitate accurate locations for repair and maintenance of the conveyance system. Those same technology enhanced field operations in the fisheries program of work for the implementation of restoration projects and to understand better the changes in the watershed and the surrounding tributaries.

Under this task, COMB will assess existing practices and systems, and explore and promote new technology to streamline our processes and integrate our systems better. Additionally, as equipment is replaced, COMB will seek and evaluate environmentally friendly, carbon neutral replacement options.

Project Completion Date: Ongoing

#### Sustainability Impacts:

Access to new technology will provide staff with the ability to better serve our stakeholders, increase productivity, better adapt to climate change and lower overhead costs.

## SUSTAINABILITY INITIATIVES (continued)

## Task 4.5

## • Explore alternate sources of renewable energy

COMB staff will explore opportunities for alternate sources of renewable energy such as solar or hydro-electric power to be installed at the COMB office and/or outlying facilities. The goal of the project is to increase efficiency of COMB's energy system and sourcing of renewable energy.

Project Completion Date: FY 2025

Sustainability Impacts:

The benefits of renewable energy include cleaner air, lower carbon emissions, the conservation of natural resources, and substantial long term savings.



## Task 4.6

## • Develop a Green Fleet Policy



To demonstrate our commitment to sustainability, COMB will develop a Green Fleet Policy that addresses ways to reduce fuel use and emissions through actions and technologies such as electric vehicles and charging stations, carpooling, vehicle "right sizing", driver education programs, and fuel and vehicle management programs that enable detailed tracking use and expenditures.

Project Completion Date: FY 2024

Sustainability Impacts:

Transportation is a significant source of air pollution and the largest contributor of greenhouse gas emissions in California. Air pollution is linked to increased rates of cancer, heart and lung disease, asthma and allergies. Carbon dioxide pollution, a greenhouse gas, causes climate change. In addition, by improving efficiency, a greener fleet can significantly reduce lifecycle costs and vulnerability to volatile fuel prices.



## SUSTAINABILITY INITIATIVES (continued)

## Initiative 5 - Organizational Policies and Financial Responsibility

**Goal:** Operate within approved policies in a productive, transparent and efficient manner to ensure sound financial stability.

## Task 5.1

- Create an organizational culture of sustainability

To be a sustainable organization requires a continuous commitment by COMB management and staff. COMB will create a sustainability welcome packet for new employees that describes our vision and our commitment to sustainability practices. COMB will foster an environment that encourages existing staff to identify and recommend new sustainable concepts and projects with an emphasis on addressing climate change and its impacts. Finally, COMB will review progress made in the Plan with staff on a biennial basis.



Project Completion Date: Ongoing

Sustainability Benefits:

Developing sustainable practices will streamline operations, make COMB more efficient, and conserve resources while decreasing our agency's operational costs.

## Task 5.2

- Uphold transparency principles

COMB recognizes that transparency is key to effective governance. COMB ensures compliance with these principles through Board and staff ethics training, open and transparent public meetings and the posting of governance policies and documents on our website.



Project Completion Date: Ongoing

Sustainability Impacts:

Transparency promotes integrity and ensures accountability of a government by making information easily available, which can be used to measure an agency's performance and to guard against any possible misuse of power or misallocation of resources.

## SUSTAINABILITY INITIATIVES (continued)

## Task 5.3

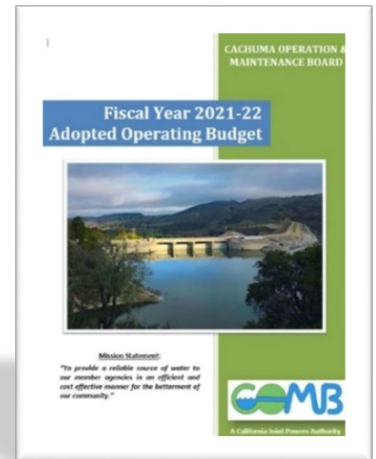
## • Operate within approved financial resources

COMB will make every effort to keep current expenditures less than current assessments and revenues to avoid subsequent assessments to its Member Agencies. Additionally, COMB will continue to evaluate both current activities and proposals for future projects to ensure long-term financial and operational stability.

Completion Date: Ongoing

Sustainability Impacts:

COMB's primary budget objective is to provide the highest possible level of service to COMB's stakeholders and members of the public without impairing COMB's financial condition.



## Task 5.4

## • Invest in "Commitment to Excellence" Program through ACWA JPIA

It is COMB's intention to participate in the ACWA JPIA Commitment to Excellence Program. . The program incorporates best practice concepts related to vehicle, infrastructure, construction, employment practices, ergonomics, fall claims, and wildfires.

Project Completion Date: FY 2023

Sustainability Impacts:

The Commitment to Excellence program is intended to promote the health and safety of COMB staff while reducing the frequency and severity of liability, workers' compensation, and property loss claims.



## SUSTAINABILITY INITIATIVES (continued)

## Task 5.5

## • Participate in the GFOA Award Programs

COMB participates in the Government Finance Officers Association (GFOA) Award Programs including the Certificate of Achievement for Excellence in Financial Reporting Program and the Distinguished Budget Presentation Awards Program.



Completion Date: Ongoing

The goal of the GFOA Award Programs is to encourage and assist state and local governments to go beyond the minimum requirements of generally accepted accounting principles to prepare annual comprehensive financial reports and budget documents of the very highest quality, promote transparency and full disclosure, and demonstrate a commitment to long term financial planning.

## Task 5.6

## • Explore new technologies to be more productive and reduce disposable waste

COMB adopted an electronic signature policy to increase productivity and ensure convenient, timely, and appropriate access to District information by using electronic signature technology to collect and preserve signatures on documents quickly, securely, and efficiently.

COMB will continue to explore new technologies in an effort to move to a paperless workplace that has minimal paper-based processes and relies on digitized documents instead. This will involve transitioning to an electronic document managing system that digitizes files and stores them in a central repository as determined by COMB policy.

Project Completion Date: Ongoing

Sustainability Impacts:

COMB is committed to responsible production, consumption and reuse of products, thereby preventing waste materials from entering landfills, water and air to preserve both human and environmental health.



## SUSTAINABILITY INITIATIVES (continued)

## Initiative 6 - Foster Leadership and Strengthen Workforce Capabilities

**Goal:** Continue to promote a safe and positive work environment and provide equal opportunities for employees to use their diverse talents to grow professionally and prepare for challenges of the future.

## Task 6.1

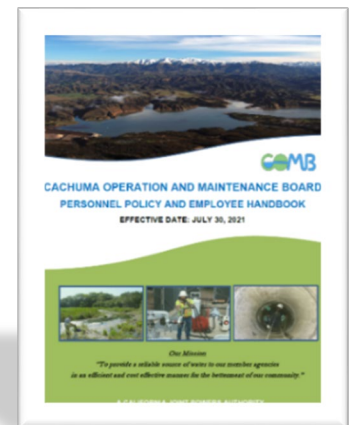
- Annual Personnel Policy and Employee Handbook updates

It is COMB's policy to update the handbook annually to ensure compliance with new employment laws and changes to personnel policies.

Project Completion Date: Ongoing

Sustainability Impacts:

The document serves as a reference manual for new and current employees and contains useful information concerning responsibilities and expectations, employee benefits as well as state and federal employment regulations. In addition, a thorough and compliant handbook will assist an organization defend against an employee labor or discrimination claim.



## Task 6.2

- Promote social well-being within the organization

COMB will develop an Employee Health and Wellness Plan to engage employees on a voluntary basis, increase awareness of positive health behaviors, and provide opportunities through a supportive work environment to foster positive lifestyle changes.

Project Completion Date: FY 2022

Sustainability Impacts:

The program will seek to increase employee morale and productivity while reducing absenteeism, and improve employee health care costs through preventative measures.



## SUSTAINABILITY INITIATIVES (Continued)

## Task 6.3

- Enroll Management in Leadership program through ACWA JPIA

COMB is committed to enrolling its management staff in the Leadership Essentials for the Water Industry program offered through ACWA JPIA. The year-long leadership program consists of 50 academic hours of learning divided into four in-classroom sessions along with monthly webinars and back-at-work assignments.



Project Completion Date: FY 2023 / 2024

Sustainability Impacts:

The curriculum is specifically formulated to assist participants to lead effectively across three leadership spectrums: self-leadership, team leadership, and agency leadership. The program is an excellent opportunity to collaborate with other leaders in the water industry throughout the state.

## Task 6.4

- Provide pathway to D3 certifications for Operations personnel

In February 2022, the State Water Resources Control Board, Division of Drinking Water (DDW) re-activated COMB's Domestic Water Supply Permit for the South Coast Conduit. In doing so, DDW classified the South Coast Conduit as a Distribution 3 (D3) system. This classification, among other things, allows COMB staff to pursue a D3 certification.



Project Completion Date: FY 2022 / 2023

Sustainability Impacts:

The pursuit of D3 certification will allow COMB staff to advance their career path as Water Distribution Operators and at the same time increase staff recruitment and promote longevity. The certification program will also provide assurance to our stakeholders of the depth of experience in our distribution staff.

## SUSTAINABILITY INITIATIVES (continued)

## Task 6.5

- **Develop Employee Retention plan to promote longevity**



Employee retention is critical to the sustainability and success of an organization. Turnover costs can have a significant negative impact on an organization's performance and employee morale. Providing a challenging and rewarding workplace for a talented and interested staff requires implementing opportunities for growth and engagement. COMB will develop an Employee Retention program that offers educational and

work experience opportunities to enable staff to continue their professional and personal development. In addition, COMB's management culture fosters a workplace where employee morale is a priority and where innovative ideas and suggestions are nurtured and encouraged.

Project Completion Date: FY 2023 / 2024

Sustainability Impacts:

The financial and time consuming investment in selecting and maintaining COMB's talented workforce offers organizational sustainability through long-term employment and subsequent preservation of historical working knowledge in a complex system.

## Task 6.6

- **Participate in the ACWA JPIA Vector Solutions Online Training Program**

Through its membership with ACWA JPIA, COMB staff has access to a web-based training and risk management platform. Training courses cover a wide range of topics including business skills, cybersecurity, human resources, motor vehicle safety, office productivity, OSHA compliance, project management, water and waste water.

Project Completion Date: Ongoing

Sustainability Impacts:

Staff training and development can help COMB gain and retain top talent, increase job satisfaction and morale, and improve productivity and workplace safety.



## ALIGNMENT WITH SUSTAINABILITY PILLARS

As described in this Plan, COMB is committed to integrating the three sustainability pillars into our ordinary operations and long-term resource management. If any one of the pillars are undermined, then the system as a whole is unsustainable. These principles provide a basis for evaluating and prioritizing projects undertaken by COMB.

The tasks in this Plan, have been aligned with the three sustainability pillars based on the guidelines below:



### Environmental Sustainability

1. Does it serve to protect, conserve, and enhance our natural resources and/or critical habitat?
2. Does it seek ways to mitigate the causes of climate change on our community and watershed?
3. Does it reduce our dependence on resources such as electricity, natural gas, and other fossil fuels?
4. Does it protect or improve the ability for future generations to meet their water supply needs.

### Economic Sustainability

1. Does it improve the resiliency of or extend the life of an asset or critical infrastructure?
2. Does it reduce operational costs or maintenance repairs?
3. Does it add value for our stakeholders (financial and/or water supply reliability)?
4. Does it increase productivity or efficiency?

### Social Sustainability

1. Does it protect public health and safety of our stakeholders and the community we serve?
2. Does it support a safe and healthy work environment for our employees?
3. Does it foster an equitable, cultural and socially diverse atmosphere?
4. Does it promote personal well-being or professional development of staff?
5. Does it place an emphasis on acknowledging and rewarding staff's work efforts in order to create a long term loyal workforce?

## ALIGNMENT WITH SUSTAINABILITY PILLARS (continued)

Table 4.3 – Sustainability Tasks

| Ref        | Project Name  |             |          |        |
|------------|---|-------------|----------|--------|
|            |   | Environment | Economic | Social |
| <b>1.0</b> | <b>Water Supply Reliability</b>   |             |          |        |
| 1.1        | Task - EPF Secured Pipeline   | ✓           | ✓        | ✓      |
| 1.2        | Task - EPF Pump Station (if needed)   | ✓           | ✓        | ✓      |
| 1.3        | Task - North Portal Intake Tower Seismic Assessment   |             | ✓        | ✓      |
| 1.4        | Task - Continue to monitor the impact of changing climate conditions and disastrous events on watershed | ✓           | ✓        | ✓      |
| 1.5        | Task - Water Quality Buoy / Sampling program  | ✓           | ✓        | ✓      |
| 1.6        | Task - Jet Flow Valve Replacement   |             | ✓        | ✓      |
| <b>2.0</b> | <b>Distribution Facilities Improvements</b>   |             |          |        |
| 2.1        | Task - Rehabilitate SCC Lateral Structures  | ✓           | ✓        | ✓      |
| 2.2        | Task - SCADA Upgrades   |             | ✓        |        |
| 2.3        | Task - AVAR/BO Rehabilitation Program   | ✓           | ✓        |        |
| 2.4        | Task - SCC Isolation Valve installation   | ✓           | ✓        |        |
| 2.5        | Task - Critical Control Valve Replacement   | ✓           | ✓        |        |
| 2.6        | Task - Meter Replacement Program  | ✓           | ✓        |        |
| <b>3.0</b> | <b>Environmental Stewardship and Public Trust Resources</b>   |             |          |        |
| 3.1        | Task - Implement regulatory requirements per current and future BO                                      | ✓           | ✓        | ✓      |
| 3.2        | Task – Inspect and maintain completed fish passage projects   | ✓           | ✓        |        |
| 3.3        | Task - Maintain Oak Tree program throughout required period   | ✓           | ✓        | ✓      |
| 3.4        | Task – Manage USGS Stream Gauge Program   | ✓           | ✓        |        |
| 3.5        | Task – Install and maintain riparian corridor exclusionary fencing                                      | ✓           | ✓        | ✓      |
| 3.6        | Task - Monitor habitat through technology based methodologies   | ✓           | ✓        |        |



## ALIGNMENT WITH SUSTAINABILITY PILLARS (continued)

Table 4.3 – Sustainability Tasks (continued)

| Ref        | Project Name   |             |          |        |
|------------|--|-------------|----------|--------|
|            |  | Environment | Economic | Social |
| <b>4.0</b> | <b>Cost-Effectiveness and Value</b>  |             |          |        |
| 4.1        | Task – Identify and prioritize Infrastructure Improvement Projects                               |             | ✓        | ✓      |
| 4.2        | Task - Research grant funding opportunities for infrastructure and habitat improvements projects | ✓           | ✓        | ✓      |
| 4.3        | Task – Perform COMB Operations Annual Work Plan  |             | ✓        |        |
| 4.4        | Task - Investigate and implement new technologies to advance operational efficiencies            | ✓           | ✓        | ✓      |
| 4.5        | Task – Explore alternate sources of renewable energy   | ✓           | ✓        | ✓      |
| 4.6        | Task – Develop a Green Fleet Policy  | ✓           | ✓        | ✓      |
| <b>5.0</b> | <b>Organizational Policies and Financial Responsibility</b>                                      |             |          |        |
| 5.1        | Task – Create an organizational culture of sustainability  | ✓           | ✓        | ✓      |
| 5.2        | Task – Uphold transparency principles  | ✓           | ✓        | ✓      |
| 5.3        | Task – Operate within approved financial resources   |             | ✓        | ✓      |
| 5.4        | Task – Invest in “Commitment to Excellence” Program through ACWA JPIA                            |             | ✓        | ✓      |
| 5.5        | Task – Participate in the GFOA Award Programs  |             | ✓        | ✓      |
| 5.6        | Task – Explore new technologies to be more productive and reduce disposable waste                | ✓           | ✓        | ✓      |
| <b>6.0</b> | <b>Foster Leadership and Strengthen Workforce Capabilities</b>                                   |             |          |        |
| 6.1        | Task - Annual Personnel Policy and Employee Handbook updates                                     |             | ✓        | ✓      |
| 6.2        | Task – Promote social well-being within the organization   |             | ✓        | ✓      |
| 6.3        | Task - Enroll Management in Leadership program through ACWA JPIA                                 |             | ✓        | ✓      |
| 6.4        | Task - Provide pathway to D3 certifications for operations personnel                             |             | ✓        | ✓      |
| 6.5        | Task – Develop Employee Retention plan to promote longevity                                      |             | ✓        | ✓      |
| 6.6        | Task – Participate in the ACWA JPIA Vector Solutions Online Training Program                     | ✓           | ✓        | ✓      |

**ALIGNMENT WITH SUSTAINABILITY PILLARS** (continued)

As previously stated, COMB is committed to providing exemplary services that are consistent with our history, mission and unique composition. To be successful, we must be sustainable. We will evaluate our success through a triple bottom line lens – people, planet and prosperity. Table 4.3 demonstrates how these initial thirty-six tasks overlap and interconnect and, if followed in action, achieve results consistent with operating a sustainable organization.

These tasks further reinforce our purpose which is to operate and maintain the Cachuma Project Transfer Project Works and to coordinate with our Member Agencies to ensure that water supply meet daily demands. To that end, COMB will have a positive impact on the stakeholders we serve by making strategic decisions and promoting public policies that support sustainability.





## **SUSTAINABILITY PRACTICES IN ACTION**



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## ALIGNMENT BETWEEN COMB MISSION AND SUSTAINABILITY PLAN

COMB is committed to providing exemplary services that are consistent with our history, mission and unique composition. Our actions are guided by the COMB mission:

*“To provide a reliable source of water to our Member Agencies  
in an efficient and cost effective manner  
for the betterment of our community.”*

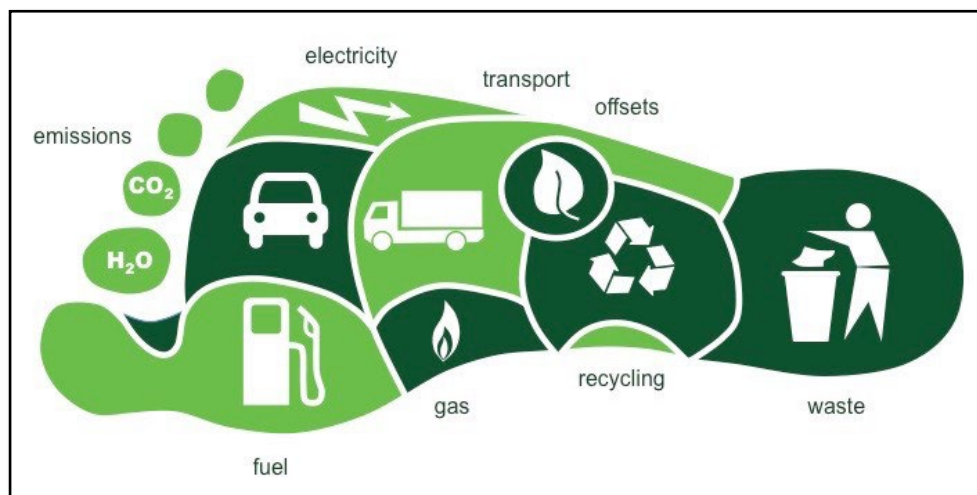
Sustainability has always been embedded in the foundation of our agency strategy. Creating value for our stakeholders and more broadly, for our society and employees, is a key to the long-term resilience and inherent value of COMB. The sustainability framework, which underpins our strategy, puts our purpose into action. We must continue to integrate sustainability into our governance structure and processes, so that it informs our future strategic and operational decisions.

## REDUCE OUR CARBON FOOTPRINT

COMB is committed to setting targets and implementing a pathway forward to achieve carbon neutrality that includes:

- Investing in energy efficiency measures and renewable onsite power.
- Choosing lower-emitting alternatives when procuring equipment, materials and fuels.
- Considering suppliers with lower Greenhouse Gas Emission supply chains.

COMB will apply both adaptation and mitigation measures as part of our efforts to address climate change. The Plan is intended to identify opportunities and solutions to achieve climate resilience and future sustainability.



## IMPLEMENTATION

COMB staff will develop implementation plans for each task as well as measure and monitor success. The Plan will be further be used as a guiding tool in the development of the annual COMB budget and other short and long term planning documents.

## MONITORING AND REPORTING

The Plan has identified six initiatives that have related goals and objectives. If actions are successfully implemented, objectives will be achieved and goals will be reached. To evaluate whether an objective has been accomplished, COMB will track key performance data and align the data with numerical targets.

Reporting and monitoring progress made in each of the proposed initiative areas is integral to the Plan. Every two years, COMB will produce a short, interim report to evaluate progress toward completion of each project or initiative. COMB will also consider new initiatives or modifications to existing initiatives. Every five years, the agency will provide an in-depth analysis of the current status of all initiatives, progress made toward each and any other sustainability efforts to be incorporated into the Plan for the upcoming five years.

It is important to stress that these proposed initiatives/projects are flexible and contingent on funding. While this is the current Plan, fluctuations in environment, community needs and funding availability may dictate not currently anticipated action or changes to the priority of planned projects.



## OUR COMMITMENT GOING FORWARD

Sustainability at COMB isn't a choice but a paramount responsibility. The design of this Plan is only the first step on a long road. Commitment to execute these initiatives will require dedicated, consolidated effort from COMB staff going forward. The Plan is designed to prioritize sustainability within the parameters of all of COMB's operations. Hence, the initiatives outlined in this Plan are consistent with the maintenance of the conduit and structures, fisheries habitat improvements and administrative tasks. The Plan further provides a platform to document efforts and achievements. It may, in turn, assist other agencies realize their own sustainability potential and develop plans to promote a healthier community.

All of these efforts combine to achieve measurable levels of positive environmental impact throughout COMB's continued operations. It is in the best interest of COMB, our Member Agencies and community to make decisions that ensure a dependable and sustainable water source. Intense droughts, rising temperatures, and other imminent environmental hazards resulting from climate change not only affect the water supply but impact the quality of life for the community we live in. These crises will worsen if no action is taken to mitigate their effects. Therefore, COMB implements this Plan as its initial course of action to mitigate and contribute to the reversal of hazards that threaten our valuable resources.



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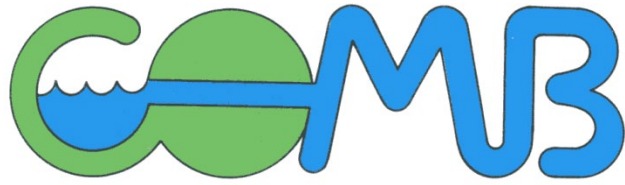




## APPENDICES



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## **LIST OF APPENDICES**

APPENDIX 1: COMB ORGANIZATION STRUCTURE

APPENDIX 2: CACHUMA PROJECT FACILITIES MAP

APPENDIX 3: COMB MANAGED ASSETS

APPENDIX: 4: LIST OF ACRONYMS AND ABBREVIATIONS

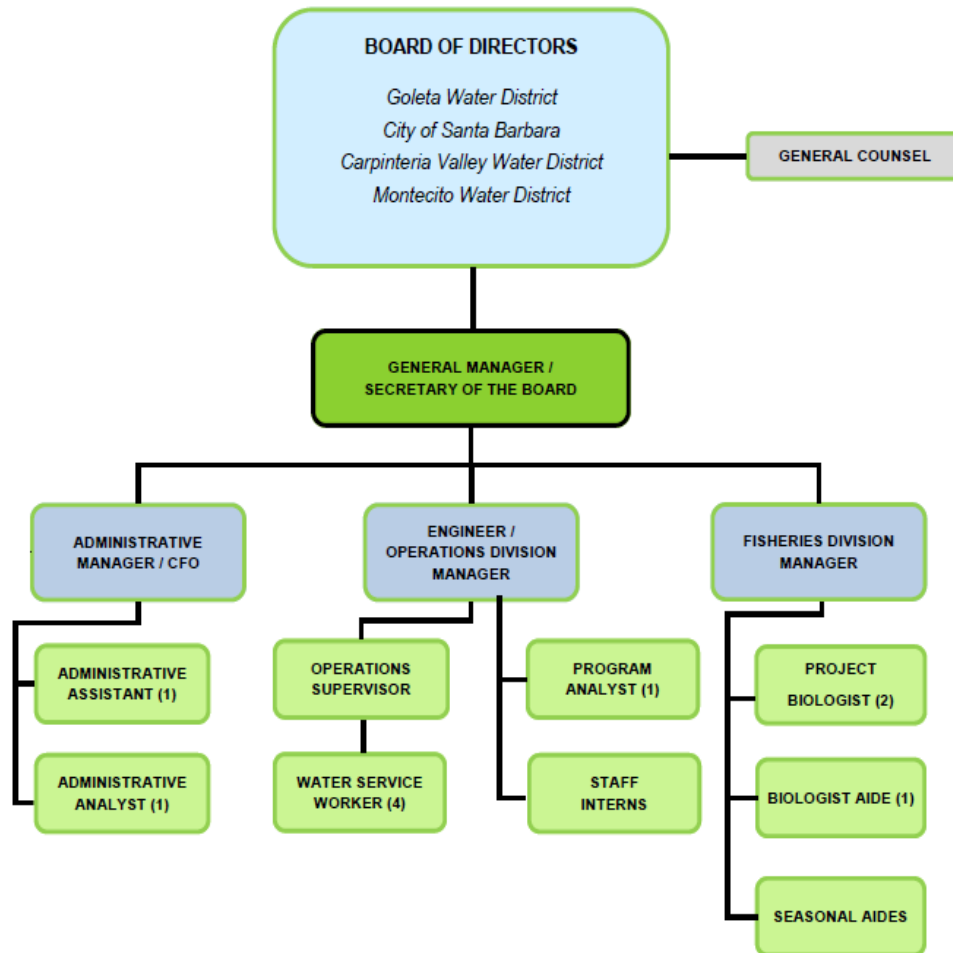
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**ORGANIZATIONAL STRUCTURE**

The Governing Board is composed of one publicly elected representative member from each of the governing bodies and is appointed by appropriate action of each governing board to serve on the COMB Board. The appointed Board members are authorized to carry out the provisions of the JPA agreement and any other agreement entered into by the Governing Board. The Board of Directors is responsible for setting policy on matters such as fiscal management and financial planning, Board administration, infrastructure improvements, and long-range planning documents.

Day-to-day operations are executed by the General Manager who serves at the pleasure of the Board. The General Manager oversees a staff of fifteen full-time employees including division managers, certified distribution operators, senior biology staff, a water resources engineer, a program analyst, and administrative personnel.

**COMB Organizational Structure**

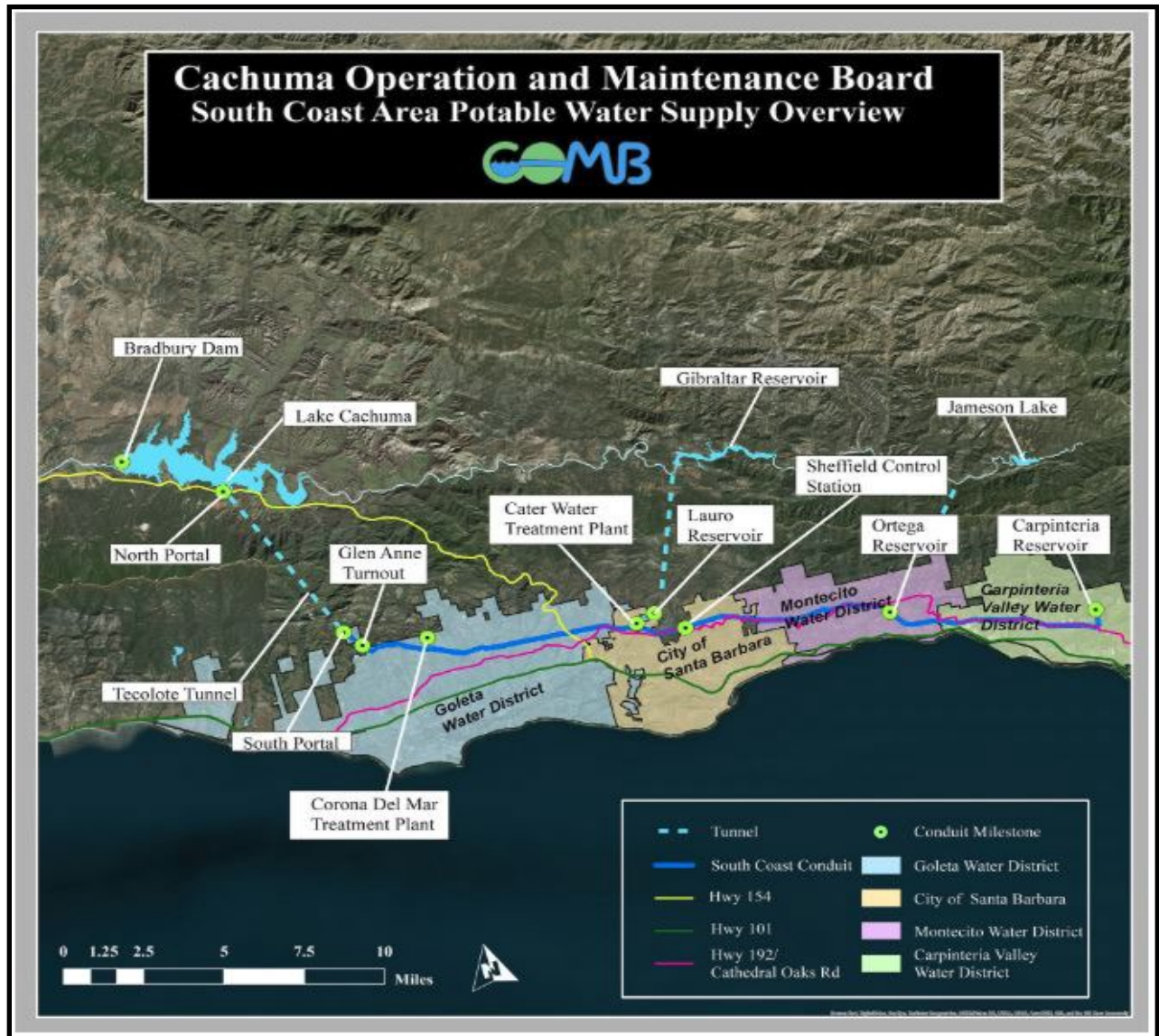


**CACHUMA PROJECT FACILITIES MAP**

Lake Cachuma and Bradbury Dam are located on the Santa Ynez River approximately 25 miles northwest of Santa Barbara. Water from Lake Cachuma is conveyed to the COMB Member Agencies through the Tecolote Tunnel intake tower at the east end of the reservoir. The Tecolote Tunnel extends 6.4 miles through the Santa Ynez Mountains from Lake Cachuma to the headworks of the SCC.

The SCC system is a high-pressure concrete pipeline that extends over 26 miles from the Tecolote Tunnel outlet to the Carpinteria area and includes four regulating reservoirs and various appurtenant structures.

**Cachuma Project Facilities Map**

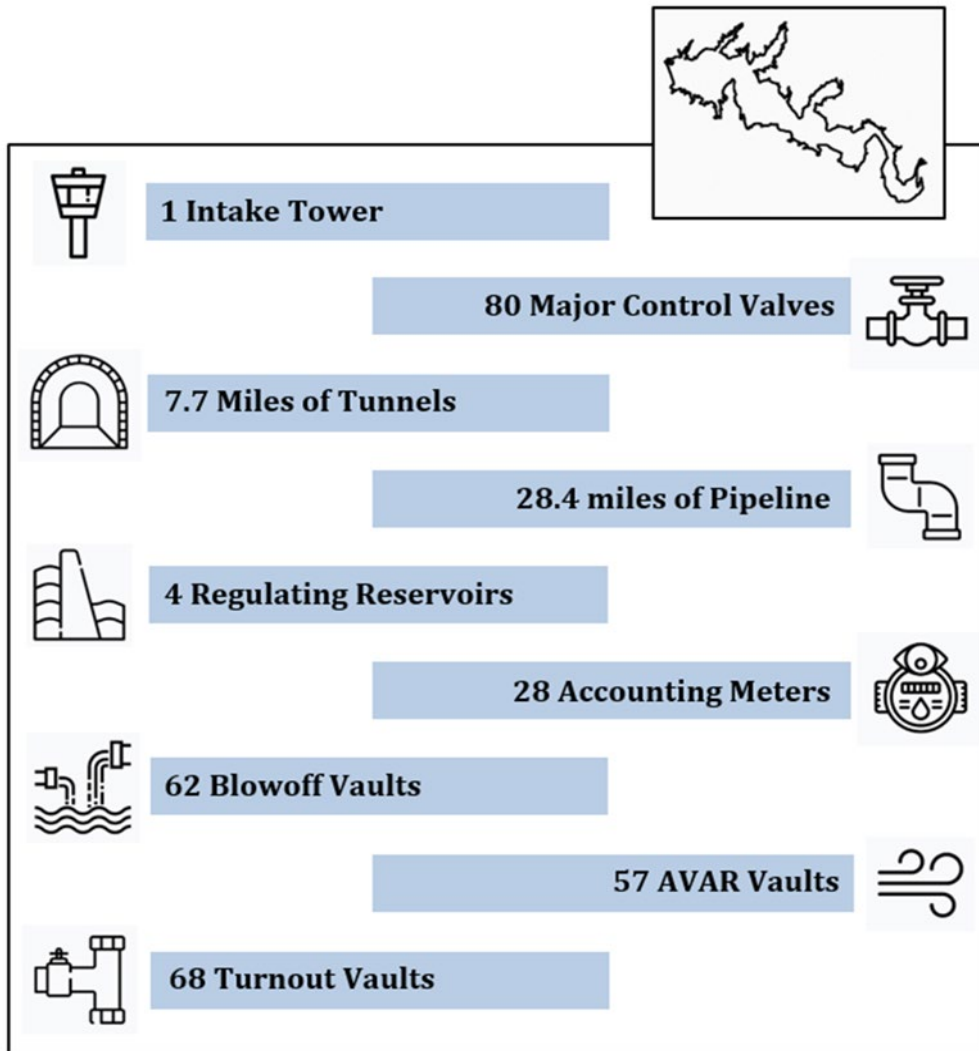


**COMB MANAGED ASSETS**

COMB, through a Transferred Project Works contract, is responsible for operating and maintaining the USBR facilities. COMB operates and maintains the Cachuma Project critical infrastructure assets, which include the North Portal, Tecolote Tunnel, SCC, Sheffield Tunnel, and Glen Anne, Lauro, Ortega, and Carpinteria Reservoir locations.

A comprehensive asset management tool was assembled by COMB staff for organizing a hierarchy of assets, which can be characterized by asset class, original cost, replacement cost, effective life, probability of failure, and renewal strategy (abandon, maintain, repair, replace), among other inputs. It is useful for viewing assets and their current conditions in a single location, while identifying assets or categories of assets that will need near or long-term work.

**COMB Managed Assets**



**COMB MANAGED ASSETS (continued)****Intake Tower**

COMB operates and maintains the North Portal Intake Tower, which diverts water from Lake Cachuma into the Tecolote Tunnel and through the SCC for delivery to COMB Member Agencies. The vertical intake tower was built by Reclamation during construction of the Cachuma Project and stands 120 feet tall. The intake tower is located approximately mid-reservoir and contains five slide gates, each at varying levels on the pentagonal-shaped tower. The slide gates are used to manage the conveyance of water from the lake at various elevations depending on lake conditions.

**Valves**

COMB operates and maintains over 80 large control valves and slide gates located within gate chambers, control stations, and dam inlet-outlet works. Most of the large control valves measure 30 inches or more in diameter. The large control valves are located throughout the system and allow distribution or service area isolation when maintenance on the system is required. COMB performs annual maintenance to ensure their operability.

**Tunnels**

COMB maintains four separate tunnels covering over 7.7 miles throughout the Cachuma Project system. The tunnels vary in length, with the most significant being the 6.4-mile Tecolote Tunnel, which provides water conveyance from Lake Cachuma through the Santa Ynez Mountains to the SCC where it is delivered to the water districts. The horseshoe shaped, concrete walled tunnels were built by Reclamation during the construction of the Cachuma Project.





## COMB MANAGED ASSETS (continued)

### Pipeline

COMB operates and maintains over 28.4 miles of concrete conveyance pipeline throughout the system. The primary pipeline is referred to as the SCC and is composed of over 9.5 miles of 48-inch diameter reinforced concrete cylinder pipe in the upper reach of the system, and 17.0 miles of 27 to 36-inch bar-wrapped concrete cylinder pipe within the lower reach.

The SCC is original except for 330 feet installed as part of a Highway 154 realignment project in 1970, 2,900 feet of welded steel pipe installed in 1980, and approximately 2,000 feet of welded steel pipe installed in the upper reach as part of the MURRP in 2012.



### Reservoirs



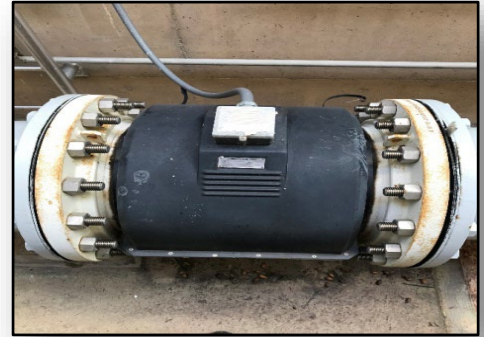
COMB operates and maintains four regulating reservoirs, which balance conveyance operations within the south coast area of the Cachuma Project system.

Two of the reservoirs are zoned earth-filled embankment dams originally designed and installed by Reclamation. Lauro Dam has a structural height of 137 feet, a crest length of 540 feet, and a storage capacity of 518 acre-feet. Seismic safety modifications were completed in 2006, which brought the facility into seismic compliance. Glen Anne Dam located in the upper reach is currently non-

operational. The two reservoirs located in the lower reach of the system are Ortega Reservoir and Carpinteria Reservoir. They are homogenous earth-filled structures and provide for over 100 acre-feet of storage capacity combined. Both Ortega and Carpinteria Reservoirs have two separate bays divided by a center wall and were covered with aluminum roofs in 2007 and 2005, respectively.

**COMB MANAGED ASSETS (continued)****Meters**

COMB reads and maintains 28 accounting meters throughout the system. Of the 28 meters, 11 are integrated with SCADA to allow remote tracking and historical logging of flow measurements. COMB also tracks pressure and water quality parameters such as turbidity, specific conductance, pH, and temperature, using sensors located at the North Portal.

**Structures**

COMB operates and maintains approximately 200 SCC structures throughout the system. This includes 62 blow-off vaults, 57 air-vacuum air-release vaults, and 68 turnouts through the peaks and valleys of SCC system. The purpose of these appurtenant structures is to allow staff access to system components, in order to release/admit air for pipeline protection, release water for maintenance purposes or emergencies, and to service internal assembly and/or valve



## LIST OF ACRONYMS AND ABBREVIATIONS

|             |  |
|-------------|--|
| ACWA        | Association of California Water Agencies     |
| AFY         | Acre Foot per Year                           |
| AVAR/BO     | Air Vacuum Air Release / Blow Off            |
| BO          | Biological Opinion                           |
| CDFW        | California Department of Fish and Wildlife   |
| COMB        | Cachuma Operation and Maintenance Board      |
| D3          | Distribution 3                               |
| DDW         | Division of Drinking Water                   |
| EPF         | Emergency Pumping Facility                   |
| EPFP        | Emergency Pumping Facilities Project         |
| FY          | Fiscal Year                                  |
| FMP         | Fish Management Plan                         |
| GIS         | Geographic Information System                |
| IIP         | Infrastructure Improvement Plan              |
| IIPP        | Injury and Illness Prevention Plan           |
| IRWMP       | Integrated Regional Water Management Program |
| JPA         | Joint Powers Authority                       |
| JPIA        | Joint Power Insurance Authority              |
| LYSR        | Lower Santa Ynez River                       |
| MURRP       | Modified Upper Release Reliability Project   |
| NMFS        | National Marine Fisheries Service            |
| P           | Phosphorous                                  |
| PIT         | Passive Integrated Transponders              |
| PLAN        | COMB Sustainability Plan                     |
| Reclamation | United States Bureau of Reclamation          |
| SCADA       | Supervisory Control and Data Acquisition     |
| SCC         | South Coast Conduit                          |
| SWP         | State Water Project                          |
| SYR         | Santa Ynez River                             |
| TOC         | Total Organic Compound                       |

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**Cachuma Operation and Maintenance Board**  
3301 Laurel Canyon Road  
Santa Barbara, CA 93105  
[www.cachuma-board.org](http://www.cachuma-board.org)

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | March 28, 2022 |
| Submitted by: | Edward Lyons   |
| Approved by:  | Janet Gingras  |

---

**SUBJECT:** Association of California Water Agencies/Joint Powers Insurance Authority (ACWA/JPIA) “*Commitment to Excellence*” (C2E) Program

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**RECOMMENDATION:**

The Board of Directors receive information on the ACWA/JPIA “*Commitment to Excellence*” Program (Program) and authorize execution of the attached Commitment to Excellence Certificate by the Board and General Manager to join the Program.

**SUMMARY:**

ACWA/JPIA, COMB’s insurance provider, has developed a “Commitment to Excellence” Program outreach program. The Program is a long-term effort to reduce the frequency and severity of liability, worker’ compensation and property losses. The most frequent and costly losses come from auto, infrastructure, construction, employment practices, ergonomic and fall injury claims. The focus of the program is on encouraging and assisting their members to implement programs and practices that can prevent these types of claims.

The support of member decision makers (Board Members, General Managers, etc.) to influence the loss reduction activities and practices of their organizations is essential for viability of the Program. Each applicant’s General Manager and President of the Board of Directors are asked to demonstrate their ongoing support by signing the ACWA/JPIA “*Commitment to Excellence*” agreement, pledging to utilize best practices to reduce the frequency of claims. The effectiveness of the Program will be reflected in the long-term loss rate and costs statistics throughout the longevity of the Program. In addition to Program effectiveness benefits, ACWA/JPIA offers an annual risk control grant opportunity (up to \$10,000) for those Members who belong to the Program. It should be noted that COMB currently follows many of these best practices which has resulted in COMB typically receiving a refund from ACWA/JPIA each year due to a low loss ratio.

Attached for the Board’s information and review is the ACWA/JPIA C2E statement, the training flyer, and grant program brochure.

**FISCAL IMPACTS:**

There are no direct costs to join the program. The implementation of best practices will have nominal costs associated with the Program. Staff will utilize the grant funding application process for the future purchase of safety equipment.

**COMMITTEE STATUS:**

The Administrative Committee received information on the ACWA/JPIA “*Commitment to Excellence*” Program (Program) and forwards the Certificate to the Board of Directors for execution and approval to join the Program.

**LIST OF EXHIBITS:**

- 1) ACWA/JPIA Commitment to Excellence Statement
- 2) Training Flyer
- 3) Grant Program Brochure





# Commitment to Excellence

## *Cachuma Operation and Maintenance Board*

and the ACWA JPIA in mutual support for ensuring the most consistent, cost effective, and broadest possible affordable insurance coverage and related services, and in partnership with all JPIA members, and in the interest of reducing ***Cachuma Operation and Maintenance Board's*** insurance costs, commit to a program of excellence that, through the implementation of "best practices" reduces the potential and frequency of:

- **Vehicle Losses**
- **Infrastructure Related Losses**
- **Construction Related Losses**
- **Employment Practices Claims**
- **Ergonomic (Musculoskeletal) and Fall Injuries**
- **Wildfire Prevention**

and fully support the goal of implementing effective preventative measures that work to achieve these loss reductions.

Walt "Andy" Sells (CEO, ACWA JPIA)  
Signature

\_\_\_\_\_  
Signature (General Manager)

\_\_\_\_\_  
Signature (Board Member)

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Signature (Board Member)

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Signature (Board Member)

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# JPIA Commitment to Excellence

JPIA In-Person or Virtual Classes  
which support claims focus areas



## Construction Related Losses

- Accident Investigation
- Confined Space Entry
- Electrical Safety
- Emergency Response
- Fall Protection
- Hazard Communication (GHS)
- Hazard ID
- Heat Illness Prevention
- Injury Illness Prevention
- Lock-out/Tag-out
- Respiratory Protection
- Risk Transfer
- Silica
- Traffic Control & Flagger
- Trench & Excavation

## Vehicle Operations

- Accident Investigation
- Defensive Driver
- Drug & Alcohol Reasonable Suspicion
- Emergency Response
- Hiring Practices
- New Employee Orientation
- Policies & Procedures



## Employment Practices

- Communication
- Discrimination & Harassment
- Documenting
- Drug & Alcohol Reasonable Suspicion
- Hiring Practices
- Injury Illness Prevention
- Job Descriptions
- Performance Appraisals
- Effective Performance Feedback
- Performance Management
- Policies & Procedures
- Return to Work
- Sexual Harassment Prevention

## Ergonomics & Fall Injuries

- Accident Investigation
- Ergonomics
- Fall Protection
- Hazard ID
- Job Descriptions
- Return to Work
- Workers' Comp



## Infrastructure

- Accident Investigation
- Confined Space Entry
- Documenting
- Electrical Safety
- Emergency Response
- Hazard ID
- Injury Illness Prevention
- Lock-out/Tag-out
- Policies & Procedures
- Risk Transfer
- Silica
- Traffic Control & Flagger
- Trench & Excavation

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# JPIA RISK CONTROL GRANT PROGRAM

The Risk Control Grant Program is designed to reinforce strategic risk management directions and re-energize the loss reduction efforts of the JPIA members.

Employee training has been proven to increase productivity and morale.



P.O. Box 619082  
Roseville, CA 95661  
800.231.5742  
acwajpia.com

# JPIA RISK CONTROL GRANT PROGRAM



The best way to control losses is to prevent them.



## Grant Program Purpose

To promote the implementation of best practices that will prevent or mitigate losses in the JPIA's Liability, Property, and Workers' Compensation Programs. The historical loss areas for these programs serve as the foundation for the best practices in the JPIA's Commitment to Excellence Program. The Grant Program will incentivize members to renew their Commitment to Excellence and review best practices applicable to their operations.

JPIA members are eligible for a grant up to \$10,000 to fund their risk management and safety program projects or equipment. This is accomplished by funding specific one-time, non-routine risk management or loss control programs or activities that are intended to address those risks.

Members should refer to the Risk Control Grant Program Description for guidance as to projects that are likely to merit a funding request.

### Eligibility

The member's eligibility to participate in the Grant Program includes:

- A member must have a signed Commitment to Excellence Agreement in place before submitting the Grant request, and it should accompany the Grant documents.
- A member must participate in at least two JPIA pooled programs.

### Grant Program: Commitment to Excellence Categories:

#### Infrastructure-Wildfire

- Emergency plan for wildfire
- Emergency equipment/supplies
- Communication equipment

#### Vehicle Operations

- Vehicle equipment such as emergency strobes, high visibility stripes
- Vehicle telemetries-GPS tracking
- Smith System Train-the-Trainer or similar systems

#### Water Lines Failure

- Valve exercise/flushing program
- Emergency response trailer
- Underground line locating equipment and training
- Fire hydrant check valve/flapper valve
- Condition Assessment Study/Water Leak Study
- Cathodic protection

#### Cyber Security

- Cyber risk vulnerability testing
- Incident response plan

### Ergonomics Program

- Ergonomic evaluations
- Ergonomic equipment purchase
- Mobile workstation for trucks

### Employment Practices

- Specialized trainer
- HR software to track performance and document employee actions.

### Award Criteria

- Defined scope, process, or performance objective(s) with solutions having a high probability of reducing loss exposure(s).
- Project or program has a results-oriented impact that is measurable and identifiable.
- Utilization of the Hierarchy of Controls.

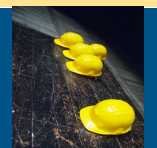
Priority will be given to grant applications that apply grant program funds to a JPIA Commitment to Excellence Program category consistent with their pooled program participation.

Grant funds will be distributed on a first approved basis. Small, medium, and large districts will receive two awards respectively, the remaining four awards will be merit based.

### Application and Reimbursement of Expenditures

Grant funds will be paid as reimbursements or initial investment for costs incurred within the scope of the project. To receive grant funding, the Grant Program request form must be submitted for projects *initiated and completed within the fiscal year (10/1/21 – 9/30/22)*.

**The JPIA's Risk Control Grant Program—to assist members with their risk control efforts based on the Commitment to Excellence Program.**



# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | March 28, 2022 |
| Submitted by: | Joel Degner    |
| Approved by:  | Janet Gingras  |

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**SUBJECT:**     **Infrastructure Improvement Plan - Supervisory Control and Data Acquisition (SCADA) System Upgrade – Professional Services Agreement**

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**RECOMMENDATION:**

The Board of Directors review the staff report and proposed cost for the SCADA system upgrade and approve and authorize the General Manager to execute a sole-source Professional Services Agreement contract with Aspect Engineering Group, Inc. in an amount not to exceed \$70,000.

**SUMMARY:**

The “Supervisory Control and Data Acquisition” system (SCADA) serves three objectives:

- Collects and enables the retrieval of historical data at COMB Offices or via remote computer. Information includes flows, reservoir elevations, alarms, communication, turbidity, pH, temperature, and valve positions.
- Provides phone alerts to COMB Operations staff to enable remote corrective action 24/7.
- Increases the efficiency of Operations staff by avoiding onsite corrective action and enhances system reliability.
- Installation of the COMB Supervisory Control and Data



Acquisition of the COMB SCADA system began in 2003. Budgetary constraints have deferred upgrades over the ensuing 10-years. Substantial information is generated through this system that is used internally by COMB and requested externally by the Member Agencies.

COMB’s SCADA system consist of nine PLCs. In FY 2019-20, two PLC’s – PLC 7 (Lauro Control Station) and PLC 8 (Cater) were successfully replaced by Aspect Engineering Group, Inc. Five active legacy PLCs have been successfully replaced by Aspect Engineering during Fiscal Year’s 2020-21 and 2021-22. The final PLC will be replaced prior to the end of the Fiscal Year.

COMB staff has developed a confidential internal SCADA Master Plan as part of the America’s Water Infrastructure Act Emergency Response Plan. As part of the plan, upgrades to the hardware and software components of the system terminal are necessary and have been budgeted for the current Fiscal Year (2022).

COMB has a single system terminal which receives and displays data received from all SCADA sites. If this computer fails, it would be difficult to access incoming data (though possible via server and runtime program), and the SCADA alarms and auto-dialer system would not work. Having two terminals, each with a dial out modem for SCADA alarms, would add redundancy in case one terminal failed. It would also allow each terminal to be seamlessly upgraded (hardware and software updates) while the other continues to

display data and send out alarms. It is recommended that each terminal run on Windows 10, with new Wonderware software compatible with Windows 10. Once a new terminal and new dial-out modem is installed, the existing computer could be updated to Windows 10 and a newer version of Wonderware.

Aspect Engineering has successfully replaced eight (8) PLC's on-time and under budget. Aspect Engineering is currently utilized by Goleta Water District (GWD) and Carpinteria Valley Water District (CVWD) for SCADA services.

The below items are the tasks anticipated to upgrade the current SCADA system:

1. Install, Configure/Convert InTouch Application.
2. Install and Configure SQL Server
3. Convert Site Pages, Aspect Ratio, and Resolutions
4. Configure Win911
5. Configure KepServerEX
6. Configure WW Historian
7. Commissioning.

Aspect provided a cost proposal for the software and hardware upgrades as shown in Table 1.

**Table 1. Software and Hardware System Installation Costs**

| Description                | Total Cost      |
|----------------------------|-----------------|
| <b>Task</b>                |                 |
| Hardware/Software          | \$31,803        |
| Labor                      | \$28,730        |
| Project Contingency (15%)  | \$9,080         |
| <b>Total Project Costs</b> | <b>\$69,612</b> |

Attached is non-competitive bid justification for Aspect Engineering Group Inc. which describes the benefits of continuing to utilize Aspect Engineering Group, Inc. for system upgrades.

**FISCAL IMPACTS:**

The current fiscal year operating budget for SCADA contains funding for the hardware and software upgrades as noted in the SCADA Master Plan.

**ENVIRONMENTAL COMPLIANCE:**

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

**COMMITTEE STATUS:**

The Operations Committee reviewed the staff report and forwards the proposed cost for the SCADA system upgrade to the Board with a recommendation to approve and authorize the General Manager to execute a sole-source Professional Services Agreement contract with Aspect Engineering Group, Inc. in an amount not to exceed \$70,000.

**LIST OF EXHIBITS:**

1. Non-Competitive Bid Justification - Aspect Engineering Group, Inc.



**South Coast Conduit (SCC) Carpinteria Reach Lateral Isolation Replacement –  
Engineering Design**

**Non-Competitively Bid (NCB) Contract Justification**

**To:** COMB Board of Directors  
**From:** Operations / Engineering Division  
**Date:** March 28, 2022  
**Contract:** Supervisory Control and Data Acquisition System Upgrade– Aspect Engineering Group, Inc.

---

**Complete responses must be provided for all of the following questions:**

***A. Why is the submission of a NCB necessary and what are the determining factors?***

Acquisition of the SCADA system began in 2003. Budgetary constraints have deferred upgrades over the ensuing 15 years. COMB began replacement of the nine PLCs in 2020. COMB staff has developed a SCADA Master Plan as part of the America’s Water Infrastructure Act Emergency Response Plan. In FY 2019-20, two PLC’s – PLC 7 (Lauro Control Station) and PLC 8 (Cater) were successfully replaced by Aspect Engineering Group, Inc. Six active legacy PLCs have been successfully replaced by Aspect Engineering during Fiscal Year’s 2020-21 and 2021-22. The final PLC will be replaced prior to the end of the Fiscal Year 2021-22. Following the PLC upgrades, the main SCADA system terminal needs to be upgraded to the current standards for security and reliability.

The benefits of hiring Aspect Engineering Group to perform the system upgrade:

- Aspect was successful in performing upgrades for the PLC replacement project.
- Aspect has knowledge of our hardware and software and was able to provide a quote for the system upgrade below COMB’s budgetary estimate.
- Aspect is engaged with two of our Member Agencies (Goleta Water District and Carpinteria Valley Water District). Utilizing Aspect will ensure consistency with our Member Agency’s SCADA systems.

***B. What are the consequences of not having this NCB approved?***

COMB has a single system terminal which receives and displays data received from all SCADA sites. If this computer fails, it would be difficult to access incoming data (though possible via server and runtime program), and the SCADA alarms and auto-dialer system would not work. The system requires upgrades to remain up to date for security and reliability of the system. Not performing this work could result in unplanned outages of

COMB's SCADA system for extended periods. COMB needs a reliable SCADA contractor to troubleshoot SCADA issues.

**C. *How will COMB ensure adequate planning to prevent submittal of NCB's for goods or services that should have been competitively bid?***

COMB will continue to bid work according to its procurement policy. In this case, COMB previously received competitive proposals for 9 PLC's and selected Aspect Engineering Group. Aspect Engineering Group successfully performed the PLC upgrade work and has supplied a cost-efficient quote and practicable approach for the SCADA system upgrade

**RESTRICTED CONTRACTOR JUSTIFICATION (NON COMPETITIVE BID)**

**A. PRICE ANALYSIS**

**1. *How was the price offered determined to be fair and reasonable?***

COMB budget for SCADA in Fiscal Year 2021-22 was \$150,000. Approximately \$50,000 was planned for the remaining PLC replacements and \$100,000 budgeted for the SCADA terminal upgrade. Aspect's quote for the work is 30 percent lower than COMB's budgetary estimate. In addition, on a per hour basis, Aspect charges lower hourly rates than other SCADA contractors COMB has utilized in the past or received proposal from.

**2. *Describe any cost savings realized or costs avoided by acquiring the goods/services from this contractor.***

This contractor has performed the PLC replacements thus far on-time and under budget. The remaining PLC to be replaced is delayed by the need to replace the meter associate with the PLC (PLC 9 Boundary) and unrelated to Aspect's performance. With the continued use of the contractor that performed the PLC replacements there are economies of scale and cost savings by utilizing the contractor that performed the PLC replacements.

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | March 28, 2022 |
| Submitted by: | Edward Lyons   |
| Approved by:  | Janet Gingras  |

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**SUBJECT:** Bipartisan Infrastructure Law – Reclamation Contractors

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**RECOMMENDATION:**

The Board of Directors receive information on the Bipartisan Infrastructure Law - Aging Infrastructure Funding provided through Reclamations' reimbursable program and provide direction to staff as appropriate.

**SUMMARY:**

With the signing of the Bipartisan Infrastructure Law by President Biden, Reclamation takes on a new opportunity to invest in infrastructure and benefit the American public for the next generation. The Aging Infrastructure / Extraordinary Maintenance (XM) funding and application period applies to Reclamation-owned infrastructure. A traditional funding opportunity will not be posted on [www.grants.gov](http://www.grants.gov), rather, Reclamation is using an internally facilitated external application process as prescribed by Title XI, Section 1101 of PL 116-260. Reclamation's area offices have lead an outreach to local Reclamation contractors and operating partners to identify and propose projects for funding. This process allows a collaborative process to identify and propose projects, rather than projects being pre-determined by Reclamation. Implementation of the Infrastructure Law's Section 40904 funding for Critical Maintenance and Repair will follow this process, prescribed by PL 116-260.

The South Central California Area Office (SCCAO - Fresno Office) has \$3.2 billion of **reimbursable** funding to provide over the next 5 years for aging infrastructure established by subsection (d)(1) of section 9603 of the Omnibus Public Land Management Act of 2009. Project proponents are limited to Transferred Project Works entities.

Reclamation offices have conducted a review of potential projects with each of their contractors. The first round deadline for application was Monday, January 31, 2022. Mr. Stroup (Fresno Deputy Area Manager) indicated that Reclamation did not have a long list of projects to submit. After a more detailed virtual briefing with Reclamation, staff completed the requested questionnaire and related documents for the Secured Pipeline Project and submitted the materials to Reclamation on Friday, January 28, 2022.

On Monday, February 28, 2022, Mr. Dan Cavanaugh (Reclamation Operations Division Chief) confirmed (via email) that our submitted project was put forward as a high priority project from SCCAO to regional staff. Mr. Cavanaugh stated that the package was well put together and likely a candidate for funding as a shovel ready project. In addition, announcements of selected projects is anticipated for May 2022.

There is NO obligation for the Board to accept funding if awarded. The funding is in essence a "loan" (reimbursable funds - contract) at a nominal interest rate with a payback period of up to the life expectancy of the project, similar to the Safety of Dams (SOD) contracts COMB currently holds with Reclamation.

**FISCAL IMPACTS:**

Not all details regarding acceptance or contract terms are known at this time. COMB staff submitted a request of \$2,600,000 with a re-payment term of 15 years. If approved by Reclamation, the payment terms would be approximately \$250,000 annually (assumed a 4% interest rate).

**LIST OF EXHIBITS:**

N/A



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.”*

March 28, 2022

## **General Manager Report**

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

### Administration

- **ACWA/JPIA Retrospective Premium Adjustment (RPA) Stabilization Fund Report**

COMB has received a premium adjustment refund originating from the ACWA/JPIA Liability, Property and Worker’s Compensation Programs. At the beginning of each policy period, the JPIA collects a deposit premium representing estimated costs for that year. Annually, the JPIA looks back at the estimate and reconciles the fund balance for each agency to actual claims paid.

In the past, when a member’s fund balance exceeded 50 percent of its basic premium, the excess money was refunded. Last year, ACWA/JPIA voted to change the calculation from the 50% exceedance of their basic premium to 70% based on projected future market adjustments on both the Property and Liability programs. This year’s refund for COMB is \$14,002.97 and is reflective of a continued low paid claims history.

- **Integrated Regional Water Management Plan (IRWMP) Round 2 Project Solicitation**

The Santa Barbara County IRWM Project Information Forms (PIF) - project solicitations for the Round 2 implementation application was extended from March 9, 2022 to April 8, 2022 due to not meeting the Disadvantaged Communities set aside requirements for projects. Staff submitted two (2) separate PIF’s – one for the Secured Pipeline Project and one for the Emergency Pumping Facility Project (EPFP). The application submittal and award timing, which could be as late as February 2023, falls more in alignment for the EPF Project.

- **Department of Water Resources (DWR) Urban and Multibenefit Drought Relief Grant Program**

On Monday, March 21<sup>st</sup>, DWR announced its second phase of funding through the Urban and Multibenefit Drought Relief Grant Program. The program will provide financial assistance to sixty-two projects throughout the state to tackle drought impacts on human health and safety, protect fish and wildlife resources, and support other public benefits, such as ecosystem improvements. COMB applied for and was recipient of an award in the amount of \$2,250,000 for the secured pipeline project.

### Meetings

- **Santa Barbara County 2022 Draft Multi-Jurisdictional Hazard Mitigation (MJHM) Plan Update**

On March 21, 2022, COMB staff participated in the Mitigation Advisory Committee (MAC) meeting. Members of the MAC received a presentation by Wood Environment & Infrastructure Solutions,

General Manager Report  
March 28, 2022

Inc. (Wood) regarding the public workshop that was held on March 9, 2022 including comments received. Wood is currently making final edits to the MJHMP and local annexes with a plan of submitting a finalized draft to FEMA/CalOES in early April for review and comments with Board/Council adoptions expected to occur in September 2022.

COMB hazard mitigation projects included within the MJHMP 2022 Update will be eligible for FEMA Hazard Mitigation Assistance grants including the Hazard Mitigation Grant Program Post Fire Grant, Building Resilient Infrastructure & Communities (BRIC), Pre-Disaster Mitigation (PDM) Program, and others.

Respectfully Submitted,

*Janet Gingras*

General Manager

# CACHUMA OPERATION AND MAINTENANCE BOARD

## MEMORANDUM

**DATE:** March 28, 2022  
**TO:** Janet Gingras, General Manager  
**FROM:** Joel Degner, Engineer/Operations Division Manager  
**RE: MONTHLY ENGINEERING REPORT**

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

### CLIMATE CONDITIONS

The normal rainfall to date is 63 percent of normal. The U.S. Drought Monitor classifies Santa Barbara County as in severe drought as of March 15, 2022. Only 2,479 acre-feet of inflow into Lake Cachuma has occurred through February 2022. Lake Cachuma pan evaporation rates continue to trend consistently with the historical median in 2021 and 2022 (see below).

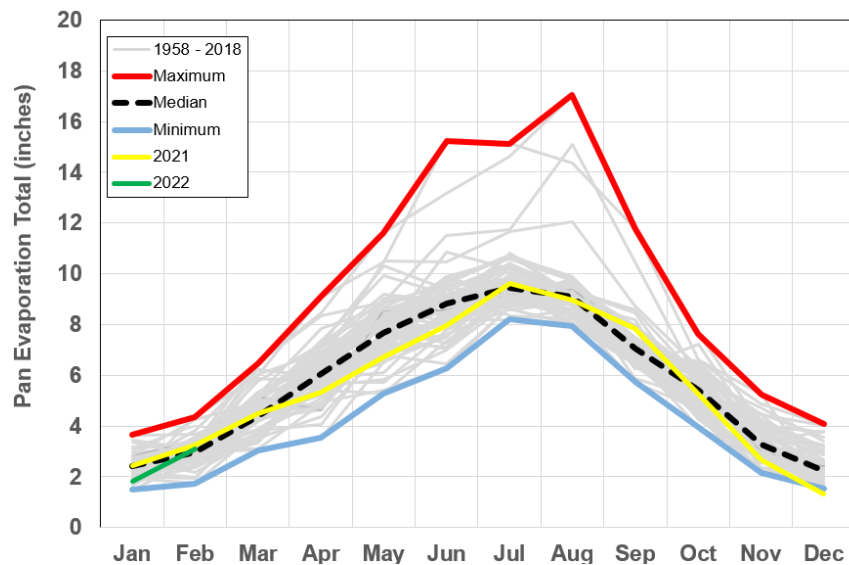


Figure 1. Lake Cachuma Monthly Pan Evaporation Totals

### LAKE ELEVATION PROJECTION

Lake Cachuma is currently at 46.2% capacity (710.49' in elevation and 89,069 acre-feet in storage as of 2/23/22). Figure 2 provides the lake elevation projection if dry conditions continue for the remainder of the water year and for water year 2022-23. COMB received update projections from its Member Agencies in February 2022. The lake elevation is projected to fall below the upper limit for the Secured Pipeline (710') installation in mid-April 2022. In the conservative scenario, the Emergency Pumping Facility may need to be installed as early as October 2022. In the realistic scenario, it may be possible to postpone the installation of the pumping facility until after the winter of water year 2022-23.

| Parameter               | Optimistic    | Realistic | Conservative     |
|-------------------------|---------------|-----------|------------------|
| SCC Exports             | 80% Forecast  | Forecast  | 120% of Forecast |
| CCWA Inflow             | 120% Forecast | Forecast  | 80% of Forecast  |
| WR 89-18 Release (2022) | 12,000 AF     | 12,000 AF | 17,000 AF        |
| WR 89-18 Release (2023) | 5,000 AF      | 8,000 AF  | 5,000 AF         |

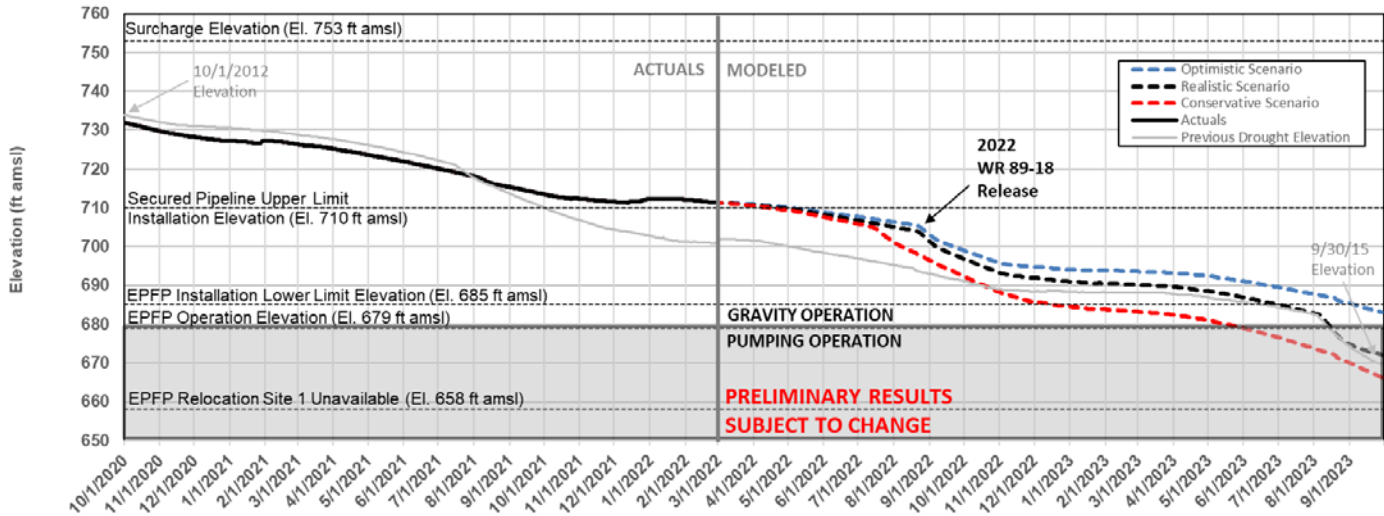


Figure 2. Projected Lake Cachuma Elevation assuming Continued Dry Conditions

### ORTEGA EFFLUENT PIPELINE REPAIR

In collaboration with COMB's member agencies, COMB isolated Ortega Reservoir from March 14<sup>th</sup> through March 19<sup>th</sup>, allowing the effluent line to be drained for inspection and repair. COMB removed Valve #10 in Valve Pit #2 to allow camera inspection of the pipeline with a camera disinfected and designated for potable water use. The camera was able to reach the full length of the outlet pipeline to where the pipeline enters Ortega Reservoir. No additional cracks in the concrete pipe or joints formed by concrete blocks were identified. There was some leakby from the reservoir into the pipeline at baseplate connection inside the reservoir. This is a small leak into the pipeline from the reservoir. This will be further evaluated and potentially repaired when the reservoir is fully drained and cleaned, but does not result in any water flowing outside the reservoir or pipeline. Some minor cracking of the mortar in the joints between the pipeline segments was observed which is fairly common on mortared joints. The joints have a steel band on the outside with double rubber gaskets which reduces the potential for a leak at the typical mortared and gasketed joint locations. The main concern for leaks are cracks in the pipeline wall or in the concrete blocks that were poured for transitional bends.



Internal view of crack which caused the leak in the outlet piping outside of the control station in February 2022.



Internal view of the fusion-bonded epoxy coated tee which is located inside the reservoir. Note the small leak where the tee connects to a baseplate that is bolted to the reservoir floor.



Hydratech was able to install a 36" long Hydratite seal internally inside of the pipeline. Originally the seal was intended to go from the steel cylinder through the concrete block past the crack into the RCP. However, the steel pipeline had a narrower internal diameter than expected and the pipeline centerlines were offset by approximately 1.5" between the steel pipeline and the concrete outlet pipeline. Connecting the Hydratite seal from the steel cylinder through the concrete pipe was not feasible. The Hydratite seal was installed through the concrete pipeline from one side of the crack to the other instead. Prior to installing the internal EPDM rubber seal, the inside of the crack was sealed with a hydraulic-cement mortar, the outside was sealed with an epoxy paste with injection ports and water stop foam was injected into the crack. The external repair clamp was reset with a new rubber gasket sheet. Following pressure testing, the external repair clamp and crack were encased in a concrete block and the exposed pipe near the block was slurried for additional support.



*Hydratech technician installing the Hydratite internal seal (EPDM rubber sleeve seal against the pipe wall with stainless steel bands).*



*Hydratite seal through the crack area*



*External repair clamp reinstalled and reinforced*



*Concrete block supporting pipe and leak (note internal Hydratite seal extends 18 inches beyond edge of concrete block).*

## INFRASTRUCTURE IMPROVEMENT PROJECTS

Table 1 provides a summary of the status of Fiscal Year 2021-22 projects.

**Table 1. Fiscal Year 2021-2022 Infrastructure Improvement Projects**

| Infrastructure Improvement Projects                      | Status / Phase   | Complexity / Challenges  | Estimated Completion Date  |
|--|--|--|--|
| <b>Infrastructure Improvement Projects</b>               |  |  |  |
| SCADA System   | COMB entered into a contract with Aspect Engineering to replace the six remaining legacy PLCs. PLCs 2,3,4,5 and 6 have been replaced. The existing Boundary insertion meter is incompatible with the hardware to upgrade the PLC 9. COMB is evaluating options in replacing the insertion meter to allow the PLC 9 upgrade.  | COMB SCADA system was installed in 2004 and existing hardware is obsolete and in need of replacement. PLC replacements will require coordination with COMB's Member Agencies.  | PLC upgrades are planned to be completed by 2022.  |
| COMB Building and Ground Repair                          | New fisheries and admin modular offices have been installed by API. COMB operations staff has re-constructed the walkway, ramp, and stairs between the offices. Walkway and ramp have been painted and floor finished. API is currently constructing the Reception Building which should be completed in spring 2022.  | COMB modular offices will be replaced in-kind to limit complexity and challenges of construction.  | Admin and Fisheries building completed. Reception building in progress planned to be installed in Spring/Summer 2022.  |
| SCC Line Valves for Shutdown                             | Contractor installed wrapper plates for 16" hot taps and bypass, formed and poured concrete thrust blocks, and hot-tapped for the installation of the bypass and line stops.   | Additional line valve(s) are needed in Carpinteria to facilitate shutdown work. A Cooperative Agreement between CVWD and COMB has been approved by COMB and CVWD to facilitate the work.   | Early April 2022   |
| SCC Structure Rehabilitation : Lower Reach Laterals      | CVWD has awarded the contract for the work and the contractor is in preparation for construction. Project is currently being delayed by Caltrans for double permit.  | In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement. COMB is collaborating with CVWD on this project.  | Construction will depend on collaboration with CVWD and likely to commence in Feb/Mar 2022 and finish in April/May 2022.   |
| SCC Structure Rehabilitation : AVAR/BO Valves            | The Board approved the contract to rehabilitate six structures including the two remaining subgrade air vents on the SCC. Preparation work to replace flat tops and manholes was completed in January. The shutdown is dependent on the completion of the La Mirada line valve and rehabilitation of 7 laterals by CVWD as part of the COMB/CVWD Cooperative Agreement.  | 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.  | Construction will be delayed until the Fall/Early Winter of 2022 due to delays in dependent projects and drought conditions impacting spring-time water demands. Budget for this year has been reallocated in part for the Ortega outlet repair. |
| <b>Special Projects</b>                                  |  |  |  |
| Emergency Pumping Facility - Secured Pipeline Project    | For the existing EPFP system - key components of the barge are currently being stored under contract and 3600 feet of pipeline are stored at the lake shore at Lake Cachuma. Reclamation completed the NEPA review and COMB is in the process of acquiring the necessary permits from USACE, CDFW, and RWQCB. Engineering contractor is in process of preparing the bid documents. Bid documents are planned to go out in early April. COMB received the Urban Multibenefit Phase 2 grant award of \$2.2M for the construction of the project. | The lake elevation is projected to remain above 685' until the Fall 2022. Installation of the EPFP is needed when the elevation is projected to fall below 685'. The Secured Pipeline Project could be installed in the Summer of 2022 if dry conditions continue. | Construction could occur in Summer of 2022 depending on lake elevations.   |
| Watershed Sanitary Survey Update                         | Geosyntec completed the final survey report and submitted it to the Division of Drinking Water on October 1, 2021.   | The update is a collaborative effort with COMB's member agencies, Santa Ynez, and the City of Lompoc.  | Completed  |
| Lake Cachuma Water Quality and Sediment Management Study | The Study was completed in August 2020. Phase 2 recommendations planned for this year include the Secured Pipeline Project (see above), phosphorous/TOC source study, and bathymetric survey. The 2021 bathymetric survey has been completed by the Santa Barbara County Water Agency. COMB staff plans to release the RFP for the Phase 2 phosphorous/TOC source study in February.   | Additional sampling is needed to better understand nutrient and total organic sources prior to determining if additional larger actions at the lake would make sense from a cost-benefit stand point.  | A focused phosphorous and TOC sourcing study by COMB is planned for FY 2021/2022.  |

## CACHUMA OPERATION AND MAINTENANCE BOARD

**DATE:** March 28, 2022  
**TO:** Janet Gingras, General Manager  
**FROM:** Shane King, Operations Supervisor

**RE: MONTHLY REPORT OF OPERATIONS – February 2022**

The total flow from Lake Cachuma into the Tecolote Tunnel for February was 1482.8 acre-feet, for an average daily flow of 52.95 acre-feet. Lake elevation was 712.09 feet at the beginning of February and 711.32 feet at the end of February. Lake storage decreased by 1,459 acre-feet. There was 356.3 acre-feet of inflow from CCWA into Cachuma Project facilities this month. The City of Santa Barbara wheeled 132.01 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was utilized and delivered 69.2 acre-feet of water to Hilton Creek for the month of February.

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 the South Coast 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) |
| <b>Upper</b>                              | 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               |
| <b>Lower</b>                              | Cater Water Treatment Plant - Carpinteria Reservoir          | 90,910             | 27" - 36"     | 2                             | 15     | 26        | 31        | 42       | 4              | 144    | 4" - 36"   | -           | 3,190,171               |

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

- Staff has been on site monitoring several ongoing projects throughout the area, working closely with the construction and engineering contractors to ensure that:
  - Pipeline easements and the right-of-way remain accessible to Operations staff for possible emergencies and ongoing facility maintenance.
  - All projects are following the COMB and USBR approved plans.
  - No damage occurs to the SCC during the construction process.

## Ongoing Monthly Operations Items:

- Conducted several flow changes at the North Portal during the month
- Reviewed several projects for conflicts within the SCC right of way
- Received and responded to 79 USA Dig alerts
- Performed weekly inspections of major facilities, safety meetings, rodent bait (all reservoirs), toe drain and piezometer reads at Ortega (L23)
- Performed dam inspection and instrumentation reports (all reservoirs)
- Performed equipment and yard maintenance
- Performed monthly North Portal elevator maintenance with Otis
- Performed monthly water quality sampling
- Read anodes and rectifier data

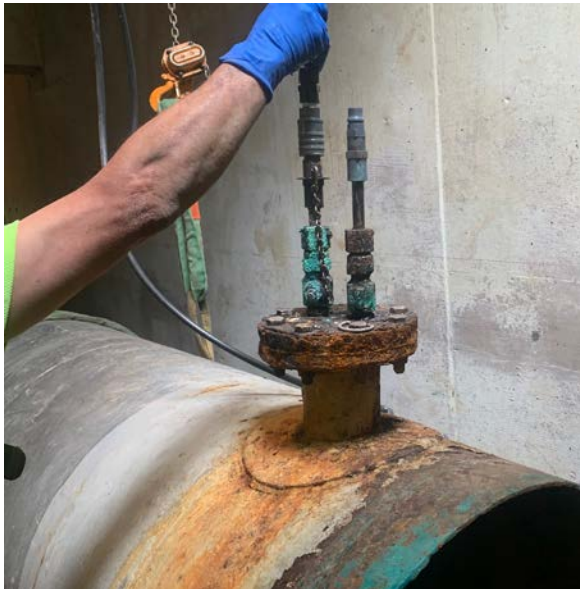
## In addition regular activities described above, Operations staff performed the following:

- Operations staff repaired a broken section of the log boom around the intake tower at Cachuma Lake that became separated.
- The fish screens for the intake tower slide gates were pulled, cleaned and inspected. During this process, the slide gates were greased and exercised.
- COMB hired "Houston and Harris" to conduct a video inspection of the outlet works piping of Ortega reservoir. Completing this inspection was a recommendation written by the Bureau of Reclamation during the last comprehensive facility review of Ortega reservoir. The video inspection found that the outlet works piping was in good condition and there were no findings to raise alarm. A copy of the video was sent to USBR and it is under review.
- The outlet works piping in the basement of the Ortega control building was cleared of any corrosion and a new coat of rust preventative protective coating was applied. Completing this project was a recommendation written by the Bureau of Reclamation during the last comprehensive facility review of Ortega reservoir. (see photos)
- The chlorine injection port on the outlet works piping at Ortega control station was cleaned and replaced. Staff removed all corrosion from the surrounding area and coated the piping with a rust preventative protective coating. Staff installed a new stainless steel flange, stainless steel injection ports, and replaced all hardware with stainless steel parts (provided by MWD). Also to prevent future corrosive damage, the injection port was moved from the top of the outlet works pipe to the side of the outlet works pipe. Completing this project was a recommendation written by the Bureau of Reclamation during the last comprehensive facility review of Ortega reservoir. (see photos)
- COMB staff monitored and oversaw the beginning stages of the line valve installation being done by Tierra Contracting Inc. on the pipeline near La Mirada road in the Carpinteria section of the SCC. (see photos)  
A list of work completed thus far are as follows:
  1. Excavated the work area and installed shoring
  2. Removed the outside mortar coating and the steel bar wrapping on sections of the conduit.
  3. Welded on a spool and flange for the temporary line stop.
  4. Welded on the two 16 inch temporary bypass flanges and wrapper plates
  5. Hot tapped the two 16 inch ports and installed the two 16 inch valves.
  6. Framed and poured the thrust protection and footing slab underneath the conduit to support the new line valve.
- Operations staff assisted Cushman Contracting Company in the permanent repair of the leaking section of the outlet works piping at Ortega reservoir which included draining of the reservoir down to approximately 1.5 feet, isolating the outlet works piping at the reservoir, and draining approximately 700 feet of outlet works piping from Ortega reservoir.

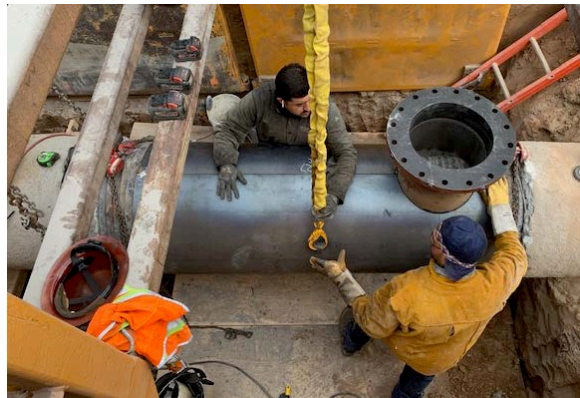
*Ortega outlet works piping*

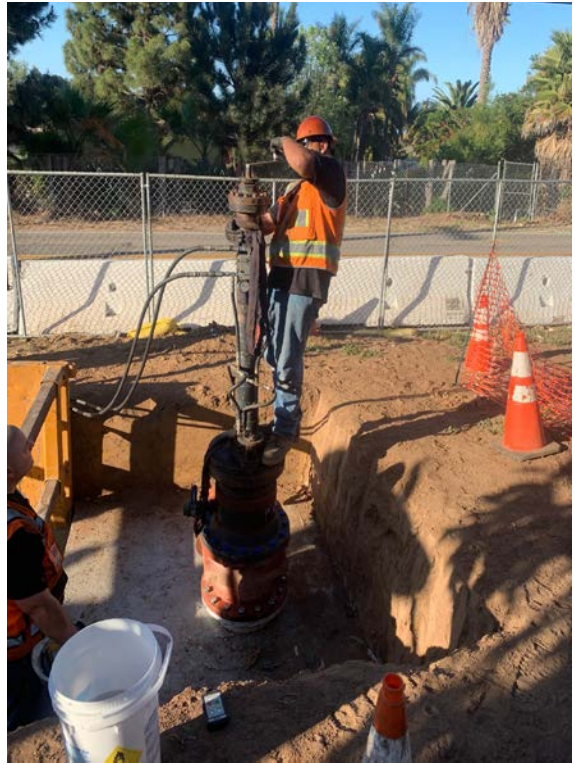


*Chlorine injector replacement*



La Mirada work





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**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**BOARD MEMORANDUM**

**DATE:** March 28, 2022  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE: MONTHLY FISHERIES DIVISION REPORT**

**HIGHLIGHTS:**

- USBR is delivering 2000 Biological Opinion (BiOp) target flows to Hilton Creek by gravity through the Hilton Creek Emergency Backup System (HCEBS) at approximately 1.1 cfs as of 3/23/22 to the Upper Release Point (URP) and Lower Release Point (LRP), which is sustaining the *O. mykiss* population in the creek. Currently, the lake is too low for gravity flow delivery through the Hilton Creek Watering System (HCWS). BiOp compliance releases to Hilton Creek are a minimum of 2 cfs. USBR and NMFS discussed the below target flow condition when it first occurred.
- The 2000 BiOp and Order WR 2019-0148 target flows to the Hwy 154 Bridge (2.5 cfs) are being met by USBR for the current lake level through releases from Hilton Creek and the Outlet Works to the Lower Santa Ynez River (LSYR) mainstem.

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

**LSYR Steelhead Monitoring Elements:**

**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.

**Redd Surveys:** Redd surveys are conducted approximately every two weeks from mid-January through May. Surveys are conducted within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access is permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Plan.

**Migrant Trapping:** The 2022 Migrant Trapping Plan was provided to Reclamation in December who then submitted it to NMFS. This monitoring effort normally begins in January

and continues through May depending on streamflow rates. The results are presented in the Annual Monitoring Summary. The Hilton Creek was installed on 2/1/22. The Salsipuedes Trap and LSYS Mainstem Trap will be installed when stormflow enables fish passage or in association with the Passage Supplementation Program if that program is initiated. Traps are removed during high flow events for safety of the staff, fishery and equipment, or if flows are too low to enable migration. The Santa Ynez River Lagoon currently is closed and is routinely monitored. Results of the trapping program are presented in the Annual Monitoring Report.

**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 and USBR for the LSYS at the Hwy 154 Bridge. The minimum target flow of 2 cfs to Hilton Creek is not currently being met with HCEBS gravity flow to the URP and LRP, with a release rate of approximately 1.1 cfs. USBR is reluctant to run any level of pumps to deliver water to the creek given past operational issues and recent power outages at Bradbury Dam. There is still sufficient discharge at the URP to sustain the fishery from there to the LRP as well as down to the confluence of the creek with the LSYS mainstem. The upper reach will become more of a concern as lake levels drop during the rest of the dry season. USBR has discussed the situation with NMFS when it initially occurred and it was agreed at the time to continue with gravity flow instead of going to pumps which have proven multiple times to be problematic in sustaining the Hilton Creek fishery.

Documenting compliance in meeting target flows at the Hwy 154 Bridge (2.5 cfs) cannot be done at that specific location due to the channel configuration and landowner access limitations. USBR established a low-flow river discharge monitoring location approximately 1 mile downstream of the Hwy 154 Bridge where access is available. USBR has been taking a discharge measurement approximately once a month and the COMB-FD staff are taking a discharge measurement once a week; we also maintain a pressure transducer at that location to record river stage every 15 minutes. This is part of a compliance measure within WR 2019-0148, specifically the Plan required in Term 18 and Term 25. The objective is to maintain a river discharge at that monitoring location of 2.5 cfs or greater (at the current lake elevation) which follows Reclamations established operational protocols for meeting required target flows at the Hwy 154 Bridge upstream. The objective was challenging to meet at all times in May, June, and July of 2021 due to many factors influencing streamflow between the release point at Bradbury Dam and the monitoring location (i.e., weather changes, varying riparian corridor vegetation and substrate composition, land use practices, alluvial groundwater extraction, etc.). Reclamation is operating within acceptable discharge parameters given the challenging factors and access barriers. COMB-FD continues to take weekly measurements as requested by USBR.

**Fish Passage Supplementation:** Staff provided watershed conditions to USBR for their information. The criteria have not been met yet to conduct a Fish Passage Supplementation event. Staff continues to monitor basin conditions and will inform USBR as conditions change.

**Tributary Project Updates:**

All planned projects have been successfully completed.

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

**HCWS and HCEBS:** The HCWS and HCEBS are owned, operated, and maintained by USBR. The HCEBS was completed at the end of January 2016. USBR technical staff

continues to consider improvement options for the HCWS. Currently USBR is delivering water to Hilton Creek through the HCEBS by gravity flow to the URP and LRP.

The HCEBS delivery floating pipeline across the Stilling Basin was removed on 2/5/20 and then reinstalled between 3/2/21 and 3/4/21. USBR successfully replaced two malfunctioning valves associated with the HCEBS on 5/12/21.

On 6/8/21, USBR activated the HCEBS on gravity flow to the URP. For a time, both the HCWS and HCEBS provided gravity flow to the URP. As the lake level dropped, more water came from the HCEBS until the HCWS stopped flowing water approximately at the end of July. Now all release water to Hilton Creek comes through the HCEBS by gravity flow to the URP and LRP.

After observing water leaking out of the HCEBS flowing pipeline, USBR with assistance from COMB-FD on 9/30/21 and 11/18/21 tightened the flanges on all pipe segment connections and the leaking appeared to stop resulting in more water delivery to Hilton Creek. No further maintenance is planned for that system.

No maintenance was conducted to our knowledge on the HCWS or the HCEBS over the course of the last month.

#### **Surcharge Water Accounting:**

The following table summarizes the amount of surcharge water used to date from each of the three accounts plus unallocated project water at the end of last month (Table 1). All numbers are from the USBR's Daily Operations Report. The start time for the use of the Surcharge Water Accounts and Project Yield was 5/27/11, or the day following the last day of full surcharge and end of the last spill event. As of May 2012, all of the fish rearing account has been used and USBR is now using Unallocated Project Water to meet BiOp target flows. Water Right (WR 89-18) release durations since 2013 are noted as follows: 7/15/13 - 12/2/13, 8/18/14 -11/11/14, 8/3/15 - 9/26/15, 7/12/16 - 8/29/16, 8/21/17 - 11/8/17, 8/6/18 - 9/12/18, 8/31/20 - 11/30/20, and 8/2/21 - 10/22/21. There were no WR 89-18 releases in 2019. During these releases, no fish rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. The remaining amount in the AMA is 351 acre-feet. All of the Fish Passage Supplementation Account (FPSA) has been used as of WY2019; all additional releases for fish passage are from Unallocated Project Water as determined by USBR.

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

| <b>Accounts*</b>   | <b>Allocation</b>  | <b>Amount Used**</b> | <b>Amount Remaining</b> |
|--|--------------------|----------------------|-------------------------|
| <b>Units:</b>  | <b>(acre-feet)</b> | <b>(acre-feet)</b>   | <b>(acre-feet)</b>      |
| <b>Fish Passage Supplementation</b>  |                    |                      |                         |
| <b>WY2019</b>  | 3,200              | 3,307                | -107                    |
| <b>WY2020</b>  | 0                  | 2,558                | -2,558                  |
| <b>Adaptive Management</b>   | 500                | 149                  | 351                     |
| <b>Fish Rearing***</b>   | 8,684              | 8,684                | 0                       |
| <b>Unallocated Project Water</b>   |                    | 26,154               |                         |
| <b>Total:</b>  | 9,184              | 40,852               | -2,314                  |
| * Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.  |                    |                      |                         |
| ** Values as of 2/28/22.   |                    |                      |                         |
| *** 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 completed the WY2021 Annual Monitoring Report and WY2021 Annual Monitoring Summary which is posted on the COMB webpage.

**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. COMB Senior Resource Scientist gave a guest lecture to an upper division EEMB class at UC Santa Barbara on 2/17/22 on field monitoring techniques.

**Consultant Activity Summary:**

**HDR Fisheries Design Center** (Mike Garello and Shaun Bevan) – No work was performed during this time period on established SOW tasks.

**Kenneth A. Knight Consulting** (Ken Knight) – No work was performed during this time period on established SOW tasks.

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                              |
|---------------|------------------------------|
| Date:         | March 28, 2022               |
| Submitted by: | Tim Robinson and Scott Volan |
| Approved by:  | Janet Gingras                |

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

**RECOMMENDATION:**

For Board information only.

**SUMMARY:**

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2021 to the present (7/1/21 – 3/28/22, Table 1). Labor and expenses for the entire fiscal year (July 2020 - June 2021) as well as water usage is tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16 which set the mitigation numbers for the Program. The 2020 Annual Report with the annual inventory and Fiscal Year 2020-21 financials was completed and reviewed by the Lake Cachuma Oak Tree Committee on 9/2/21 and provided to the COMB Board on 9/27/21 that recommended going forward with planting another 300 oak trees and replacing 80 dead oak trees during the wet season of this water year.

**Table 1:** Cachuma Oak Tree Program completed tasks since July, 2021.

|                                     | July 2021 | Aug 2021  | Sept 2021 | Oct 2021  | Nov 2021        | Dec 2021 <sup>1</sup> | Jan 2022        | Feb 2022 <sup>2</sup> | Mar 2022 <sup>2</sup> |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------------|-----------------------|-----------------|-----------------------|-----------------------|
| <b>Year 13 Oaks<br/>(2021-2022)</b> |           |           |           |           | New Trees       | New Trees             | New Trees       | New Trees             | Irrigated             |
|                                     |           |           |           |           | Gopher Baskets  | QA/QC                 | QA/QC           | QA/QC                 | Weeded                |
|                                     |           |           |           |           | Fert/Comp       | Tree Tags             | Tree Tags       | Tree Tags             |                       |
|                                     |           |           |           |           | Deer Cages      |                       | Deer Cages      | Deer Cages            |                       |
|                                     |           |           |           |           | Mulch/Irrigated |                       | Mulch/Irrigated | Mulch/Irrigated       |                       |
| <b>Year 12 Oaks<br/>(2020-2021)</b> | Irrigated | Irrigated | Irrigated |           |                 |                       |                 | Irrigated             | Irrigated             |
|                                     | Weeded    | Weeded    | Weeded    |           |                 |                       |                 | Weeded                | Weeded                |
| <b>Year 11 Oaks<br/>(2019-2020)</b> | Irrigated | Irrigated | Irrigated | Irrigated |                 |                       |                 |                       |                       |
|                                     | Weeded    | Weeded    | Weeded    | Weeded    |                 |                       |                 |                       |                       |
| <b>Year 10 Oaks<br/>(2018-2019)</b> |           | Irrigated |           | Irrigated |                 |                       |                 |                       |                       |
|                                     |           | Weeded    |           | Weeded    |                 |                       |                 |                       |                       |
| <b>Year 9 Oaks<br/>(2016-2017)</b>  |           | Irrigated | Irrigated | Irrigated |                 | Irrigated             |                 |                       |                       |
|                                     |           | Weeded    | Weeded    | Weeded    |                 | Weeded                |                 |                       |                       |
| <b>Year 8 Oaks<br/>(2015-2016)</b>  |           |           |           |           |                 |                       |                 |                       |                       |
| <b>Year 7 Oaks<br/>(2014-2015)</b>  |           |           |           |           |                 |                       |                 |                       |                       |
| <b>Year 6 Oaks<br/>(2005-2011)</b>  |           |           |           |           |                 |                       |                 |                       |                       |
| <sup>1</sup> Dead trees replaced.   |           |           |           |           |                 |                       |                 |                       |                       |
| <sup>2</sup> Oak tree inventory.    |           |           |           |           |                 |                       |                 |                       |                       |

### ***Maintenance***

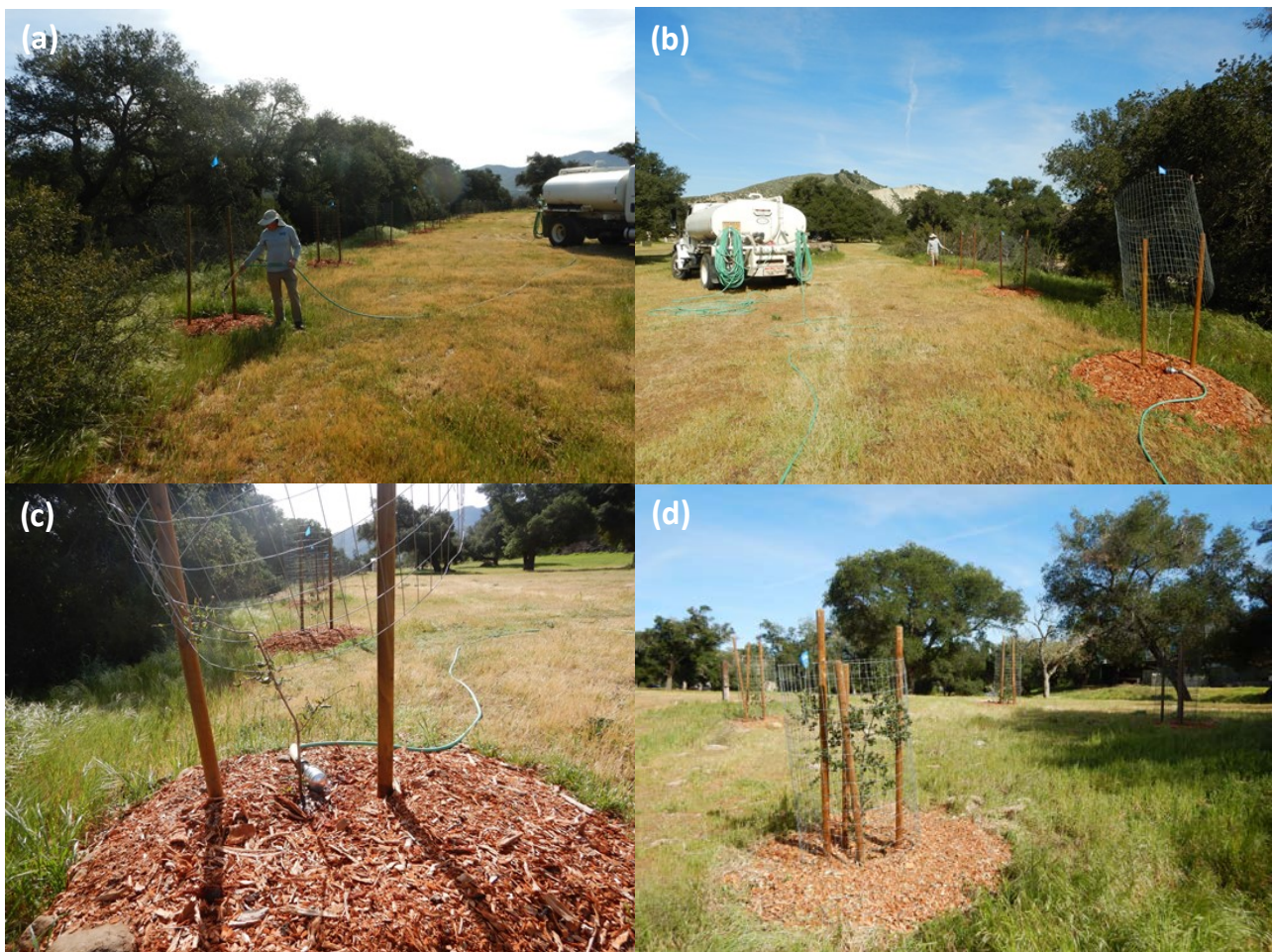
Bradbury Dam only received .08 inches of rainfall in the month of February. Dry conditions have continued into March so the COMB Fisheries Division continues to irrigate trees in what is typically the wettest period of the year. All of the Year 12 trees at the Santa Barbara County Park were recently watered by the first week of March. Crews wrapped up another round of watering on the new Year 13 trees at Live Oak Camp last week (Exhibit 1). The total number of Year 13 trees is 384 (284 COMB and 100 Ken Knight [Your Children's Trees] trees). All Year 13 trees have been inventoried, individually tagged, GPSed and incorporated into the project GIS database. Ken Knight is very pleased with the collaborative effort and has provided compensation to COMB.

A load of mulch was brought to Live Oak Camp and spread on the older age classes of trees that had been previously planted by the COMB arborist (Ken Knight) (Exhibit 1d). Many of these trees had no mulch on them, allowing the surrounding soil to dry out between rains.

### ***Annual Inventory***

The 2021 Annual Inventory of all year classes is underway and will continue until completed. Much of the annual inventory work is being conducted between trap checks (both AM and PM shifts).

### **LIST OF EXHIBITS:**



**Exhibit 1:** Oak tree maintenance at Live Oak Camp showing (a) & (b) irrigating Year 13 trees, (c) fresh mulch on new trees, and (d) new mulch provided to older Ken Knight trees.

**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**METERED USE REPORT FOR FEBRUARY 2022**

| LATERAL/<br>STATION   | NAME | ACRE FEET<br>METERED | LATERAL/<br>STATION                                       | NAME                                  | ACRE FEET<br>METERED |
|---|------|----------------------|---|---------------------------------------|----------------------|
| <b>CARPINTERIA WATER DISTRICT</b>                             |      |                      | <b>GOLETA WATER DISTRICT</b>                              |                                       |                      |
| Boundary Meter - East   |      | 99.14                | 18+62   | G. WEST                               | 69.88                |
| Boundary Meter - West   |      | (0.02)               | 78+00   | Corona Del Mar FILTER Plant           | 675.65               |
|   |      |                      | 122+20  | STOW RANCH                            | 0.00                 |
|   |      |                      |   | SWP CREDIT (Warren Act Contract)      | (332.00)             |
|   |      |                      |   | Raytheon (SWP) (Warren Act Contract)  | 0.00                 |
|   |      |                      |   | Morehart (SWP) (Warren Act Contract)  | (10.00)              |
|   |      |                      | <b>TOTAL</b>  |                                       | <b>403.52</b>        |
|   |      |                      | <b>MONTECITO WATER DISTRICT</b>                           |                                       |                      |
|   |      |                      | 260+79  | BARKER PASS                           | 47.71                |
|   |      |                      | 386+65  | MWD YARD                              | 0.95                 |
|   |      |                      | 487+07  | VALLEY CLUB                           | 0.00                 |
|   |      |                      | 499+65  | E. VALLEY-ROMERO PUMP                 | 187.35               |
|   |      |                      | 510+95  | MWD PUMP (SWD)                        | 12.28                |
|   |      |                      | 510+95  | ORTEGA CONTROL                        | 9.08                 |
|   |      |                      | 526+43  | ASEGRA RD                             | 0.14                 |
|   |      |                      | 555+80  | CO. YARD                              | 0.00                 |
|   |      |                      | 583+00  | LAMBERT RD                            | 0.00                 |
|   |      |                      | 599+27  | TORO CANYON                           | 6.47                 |
|   |      |                      |   | SWP CREDIT (Warren Act Contract)      | 0.00                 |
|   |      |                      |   | City of SB / MWD WSA ("Desal")        | (117.38)             |
|   |      |                      | <b>TOTAL</b>  |                                       | <b>146.60</b>        |
|   |      |                      | <b>CITY OF SANTA BARBARA</b>                              |                                       |                      |
|   |      |                      | CATER   | INFLOW                                | 941.03               |
|   |      |                      | Gibraltar   | PENSTOCK                              | (132.01)             |
|   |      |                      | CATER   | SO. FLOW                              | (511.79)             |
|   |      |                      | Sheffield   | SHEF.LIFT                             | 132.19               |
|   |      |                      |   | SWP CREDIT (Warren Act Contract)      | 0.00                 |
|   |      |                      |   | La Cumbre (SWP) (Warren Act Contract) | (6.62)               |
|   |      |                      |   | City of SB / MWD WSA ("Desal")        | 117.38               |
|   |      |                      | <b>TOTAL</b>  |                                       | <b>540.18</b>        |
|   |      |                      | <b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b> |                                       |                      |
|   |      |                      | COUNTY PARK, ETC  |                                       | 1.18                 |
|   |      |                      | <b>TOTAL</b>  |                                       | <b>1.18</b>          |
|   |      |                      | <b>BREAKDOWN OF DELIVERIES BY TYPE:</b>                   |                                       |                      |
|   |      |                      | STATE WATER DELIVERED TO LAKE                             |                                       | 367.00               |
|   |      |                      | STATE WATER TO SOUTH COAST including from stored          |                                       | 447.74               |
|   |      |                      | <b>METERED DIVERSION</b>                                  |                                       | <b>1,091.49</b>      |
| SWP CREDIT (Warren Act Contract) (99.12)<br><b>TOTAL 0.00</b> |      |                      |   |                                       |                      |
| Note:<br>Meter reads were taken on: 2/28/2022                 |      |                      |   |                                       |                      |

**WATER YEAR 21-22 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF FEBRUARY 2022 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

| <b>CACHUMA PROJECT</b>                  |                |                |
|---|----------------|----------------|
| <b>WATER PRODUCTION:</b>                | <b>MONTH</b>   | <b>WYTD</b>    |
| Cachuma Lake (Tec. Diversion)           | 1,482.8        | 6,483.0        |
| Tecolote Tunnel Infiltration            | 66.6           | 375.2          |
| Cachuma Lake (County Park)              | 1.2            | 5.7            |
| <b>Subtotal - Water Production</b>      | <b>1,550.6</b> | <b>6,863.9</b> |
| <b>WATER DELIVERIES:</b>                |                |                |
| State Water Diversion                   | 447.7          | 1,946.1        |
| Cachuma Diversion                       | 1,091.5        | 4,947.7        |
| Storage gain/(loss) <sup>(2)</sup>      | 10.6           | (49.7)         |
| <b>Subtotal - Water Deliveries</b>      | <b>1,549.9</b> | <b>6,844.2</b> |
| <b>Total Water Production</b>           | <b>1,550.6</b> | <b>6,863.9</b> |
| <b>Total Water Deliveries</b>           | <b>1,549.9</b> | <b>6,844.2</b> |
| <b>Difference = Apparent Water Loss</b> | <b>0.8</b>     | <b>19.8</b>    |
| <b>% Apparent Water Loss</b>            | <b>0.05%</b>   | <b>0.29%</b>   |

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

|  | <b>GWD</b> | <b>SB CITY</b> | <b>MWD</b> | <b>CVWD</b> | <b>TOTAL</b> |
|--|------------|----------------|------------|-------------|--------------|
| <b><u>CURRENT MONTH CHARGE / (ADJUSTMENT)</u></b>      |            |                |            |             |              |
| M&I  | 0.0        | 0.0            | 0.0        | 0.0         | 0.0          |
| Agriculture  | 0.0        | 0.0            | 0.0        | 0.0         | 0.0          |
| Subtotal Cachuma Project                               | <b>0.0</b> | <b>0.0</b>     | <b>0.0</b> | <b>0.0</b>  | <b>0.0</b>   |
| (+) State Water Project                                | 0.0        | 0.0            | 0.0        | 0.0         | 0.0          |
| <b>Total Current Month</b>                             | <b>0.0</b> | <b>0.0</b>     | <b>0.0</b> | <b>0.0</b>  | <b>0.0</b>   |
| <b><u>WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)</u></b> |            |                |            |             |              |
| M&I  | 0.0        | 0.0            | 0.0        | 0.0         | 0.0          |
| Agriculture  | 0.0        | 0.0            | 0.0        | 0.0         | 0.0          |
| Subtotal Cachuma Project                               | <b>0.0</b> | <b>0.0</b>     | <b>0.0</b> | <b>0.0</b>  | <b>0.0</b>   |
| (+) State Water Project                                | 0.0        | 0.0            | 0.0        | 0.0         | 0.0          |
| <b>Total AWL Charged (WYTD)</b>                        | <b>0.0</b> | <b>0.0</b>     | <b>0.0</b> | <b>0.0</b>  | <b>0.0</b>   |
| <b>Total AWL Not Charged (WYTD)</b>                    |            |                |            |             | <b>19.8</b>  |
| <b>Total AWL Incurred (WYTD)</b>                       |            |                |            |             | <b>19.8</b>  |

**CACHUMA PROJECT WATER CHARGE**

|                                       | <b>GWD</b>     | <b>SB CITY</b> | <b>MWD</b>   | <b>CVWD</b> | <b>SYRID #1</b> | <b>TOTAL</b>   |
|---------------------------------------|----------------|----------------|--------------|-------------|-----------------|----------------|
| <b><u>CURRENT MONTH</u></b>           |                |                |              |             |                 |                |
| Water Usage                           |                |                |              |             |                 |                |
| M&I                                   | 321.1          | 540.2          | 133.8        | 0.0         | 1.2             | 996.3          |
| Agricultural                          | 82.4           | 0.0            | 12.8         | 0.0         | N/A             | 95.2           |
| <b>Subtotal Project Water Use</b>     | <b>403.5</b>   | <b>540.2</b>   | <b>146.6</b> | <b>0.0</b>  | <b>1.2</b>      | <b>1,091.5</b> |
| (+) Apparent Water Loss               | 0.0            | 0.0            | 0.0          | 0.0         | N/A             | 0.0            |
| (+) Evaporative Loss <sup>(4)</sup>   | 31.5           | 98.2           | 12.3         | 11.3        | 12.7            | 165.9          |
| <b>Total Project Water Charge</b>     | <b>435.0</b>   | <b>638.4</b>   | <b>158.9</b> | <b>11.3</b> | <b>13.9</b>     | <b>1,257.4</b> |
| <b><u>WATER YEAR-TO-DATE</u></b>      |                |                |              |             |                 |                |
| Water Usage                           |                |                |              |             |                 |                |
| M&I                                   | 1,309.8        | 2,507.1        | 724.0        | 0.0         | 5.7             | 4,546.7        |
| Agricultural                          | 344.0          | 0.0            | 57.1         | 0.0         | N/A             | 401.1          |
| <b>Subtotal Project Water Use</b>     | <b>1,653.8</b> | <b>2,507.1</b> | <b>781.1</b> | <b>0.0</b>  | <b>5.7</b>      | <b>4,947.7</b> |
| (+) Apparent Water Loss               | 0.0            | 0.0            | 0.0          | 0.0         | N/A             | 0.0            |
| (+) Evaporative Loss <sup>(4)</sup>   | 151.1          | 450.9          | 60.3         | 48.9        | 54.8            | 766.1          |
| <b>Total Project Water Charge (*)</b> | <b>1,805.0</b> | <b>2,958.0</b> | <b>841.4</b> | <b>48.9</b> | <b>60.6</b>     | <b>5,713.8</b> |

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



**WATER YEAR 21-22 CACHUMA PROJECT ALLOCATION**  
**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**WATER PRODUCTION AND WATER USE REPORT**  
**FOR THE MONTH OF FEBRUARY 2022 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

**CACHUMA PROJECT WATER BALANCE**

|  | <b>GWD</b>      | <b>SB CITY</b>  | <b>MWD</b>     | <b>CVWD</b>    | <b>SYRID #1</b> | <b>TOTAL</b>    |
|--|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
| <b>Project Water Carryover - 10/1/2021</b>         | 7,321.6         | 20,525.9        | 2,994.6        | 2,103.3        | 2,361.5         | 35,307.0        |
| Transfers/Adjustment                               | 0.0             | 0.0             | 0.0            | 0.0            | 0.0             | 0.0             |
| <b>(-) Project Water Charge (WYTD)</b>             | <b>1,805.0</b>  | <b>2,958.0</b>  | <b>841.4</b>   | <b>48.9</b>    | <b>60.6</b>     | <b>5,713.8</b>  |
| <b>Balance Carryover Water</b>                     | <b>5,516.7</b>  | <b>17,568.0</b> | <b>2,153.2</b> | <b>2,054.4</b> | <b>2,301.0</b>  | <b>29,593.2</b> |
| <b>Current Year Allocation <sup>(5)</sup></b>      | <b>6,525.0</b>  | <b>5,794.0</b>  | <b>1,856.0</b> | <b>1,969.0</b> | <b>1,856.0</b>  | <b>18,000.0</b> |
| <b>(-) Balance of Project Water Charge (WYTD)</b>  | <b>0.0</b>      | <b>0.0</b>      | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>      | <b>0.0</b>      |
| <b>Net Allocation Available Before Adjustments</b> | <b>6,525.0</b>  | <b>5,794.0</b>  | <b>1,856.0</b> | <b>1,969.0</b> | <b>1,856.0</b>  | <b>18,000.0</b> |
| <b><u>Adjustments to Net Allocation (WYTD)</u></b> |                 |                 |                |                |                 |                 |
| Carryover Balances Spilled                         | 0.0             | 0.0             | 0.0            | 0.0            | 0.0             | 0.0             |
| Surplus  | 0.0             | 0.0             | 0.0            | 0.0            | 0.0             | 0.0             |
| State Water Exchange <sup>(6)</sup>                | 61.0            | 41.0            | 0.0            | 27.0           | (129.0)         | 0.0             |
| Transfers/Adjustment - SB/La Cumbre                | 0.0             | 0.0             | 0.0            | 0.0            | 0.0             | 0.0             |
| Transfers/Adjustment - Bishop Ranch                | 0.0             | 0.0             | 0.0            | 0.0            | 0.0             | 0.0             |
| Transfers/Adjustment - Juncal Transfer             | 0.0             | 0.0             | 0.0            | 0.0            | 0.0             | 0.0             |
| Transfers/Adjustment - GWD/SB Overlap              | 0.0             | 0.0             | 0.0            | 0.0            | 0.0             | 0.0             |
| <b>Balance Current Year Allocation</b>             | <b>6,586.0</b>  | <b>5,835.0</b>  | <b>1,856.0</b> | <b>1,996.0</b> | <b>1,727.0</b>  | <b>18,000.0</b> |
| <b>Total Cachuma Project Water Available</b>       | <b>12,102.7</b> | <b>23,403.0</b> | <b>4,009.2</b> | <b>4,050.4</b> | <b>4,028.0</b>  | <b>47,593.2</b> |

**Footnotes**

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only
- (3) Based on correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted for water loss based on lake conditions
- (4) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017
- (5) Per USBR, 70% allocation to Member Agencies, effective 10/1/21
- (6) 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 February 2022.
- (7) Memo only - State Water Deliveries to Lake Cachuma for February was 367 AF.
- (8) Memo only - MWD has received 234.76 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: **FEBRUARY 2022**

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

|   |              |      |
|---|--------------|------|
| Capacity at 385' elevation:                   | 335          | AF   |
| Capacity at sill of intake at 334' elevation: | 21           | AF   |
| Stage of Reservoir Elevation                  | <b>340.0</b> | Feet |
| Water in Storage                              | 47.42        | AF   |

**LAURO RESERVOIR**

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

**ORTEGA RESERVOIR**

|                                       |              |      |
|---------------------------------------|--------------|------|
| Capacity at 460' elevation:           | 65           | AF   |
| Capacity at outlet at elevation 440': | 0            | AF   |
| Stage of Reservoir Elevation          | <b>445.6</b> | Feet |
| Water in Storage                      | 15.19        | AF   |

**CARPINTERIA RESERVOIR**

|                                    |              |      |
|------------------------------------|--------------|------|
| Capacity at 384' elevation:        | 45           | AF   |
| Capacity at outlet elevation 362': | 0            | AF   |
| Stage of Reservoir Elevation       | <b>375.5</b> | Feet |
| Water in Storage                   | 24.59        | AF   |

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

|                   |        |    |
|-------------------|--------|----|
| Change in Storage | 424.93 | AF |
|                   | 7.03   | AF |

**CACHUMA RESERVOIR**

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

|                              |                |       |
|------------------------------|----------------|-------|
| Stage of Reservoir Elevation | <b>711.32</b>  | Feet  |
| Water in Storage             | <b>91,642</b>  | AF    |
| Surface Area                 | <b>1,858</b>   | Acres |
| Evaporation                  | <b>372.7</b>   | AF    |
| Inflow                       | <b>412.1</b>   | AF    |
| Downstream Release WR8918    | <b>0.0</b>     | AF    |
| Fish Release (Hilton Creek)  | <b>69.2</b>    | AF    |
| Outlet                       | <b>314.0</b>   | AF    |
| Spill/Seismic Release        | <b>0</b>       | AF    |
| State Water Project Water    | <b>356.3</b>   | AF    |
| Change in Storage            | <b>-1,459</b>  | AF    |
| Tecolote Diversion           | <b>1,482.8</b> | AF    |

|                  |                    |                      |                               |
|------------------|--------------------|----------------------|-------------------------------|
| <b>Rainfall:</b> | <b>Month:</b> 0.08 | <b>Season:</b> 10.76 | <b>Percent of Normal:</b> 75% |
|------------------|--------------------|----------------------|-------------------------------|

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

(2) In 2004, flashboard installation raised Cachuma Reservoir max elevation to 753' (193,305 AF); surcharge water reserved for fish releases.



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

Contract Year: 10/1/21 to: 9/30/22

Contract Entity: **Goleta Water District**  
 Update by COMB 2/28/2022

| Month | Carryover Balance Prior Yr | Approved Allocation Curr Yr |
|-------|----------------------------|-----------------------------|
| Oct   | 7,321.6                    | 6,525.0                     |
| Nov   | -                          | -                           |
| Dec   | -                          | -                           |
| Jan   | -                          | -                           |
| Feb   | -                          | -                           |
| Mar   | -                          | -                           |
| Apr   | -                          | -                           |
| May   | -                          | -                           |
| Jun   | -                          | -                           |
| Jul   | -                          | -                           |
| Aug   | -                          | -                           |
| Sep   | -                          | -                           |
| Total | 7,321.6                    | 6,525.0                     |

| TOTAL WATER USED |       |         | WATER USE CHARGED |         |         | WATER USE CHARGED |       |       |
|------------------|-------|---------|-------------------|---------|---------|-------------------|-------|-------|
| Acre-feet        |       |         | Allocation        |         |         | Allocation        |       |       |
| M & I            | Agr   | Total   | Evap              | Used    | Total   | M & I             | Agr   | Total |
| 412.3            | 130.2 | 542.4   | 62.9              | 542.4   | 605.3   | 456.3             | 149.0 | -     |
| 376.0            | 97.0  | 472.9   | 28.3              | 472.9   | 501.2   | 395.7             | 105.6 | -     |
| 111.7            | 26.5  | 138.2   | 12.3              | 138.2   | 150.5   | 120.2             | 30.4  | -     |
| 88.8             | 7.9   | 96.7    | 16.2              | 96.7    | 112.9   | 99.9              | 13.0  | -     |
| 321.1            | 82.4  | 403.5   | 31.5              | 403.5   | 435.0   | 342.6             | 92.4  | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| -                | -     | -       | -                 | -       | -       | -                 | -     | -     |
| 1,309.8          | 344.0 | 1,653.8 | 151.1             | 1,653.8 | 1,805.0 | 1,414.6           | 390.3 | -     |

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

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 Sep

| SCHEDULE AND REVISIONS |         |            | SCHEDULE AND REVISIONS |            |         |         |
|------------------------|---------|------------|------------------------|------------|---------|---------|
|                        | Total   | Allocation |                        | Allocation |         | Total   |
|                        |         | M & I      | Agr                    | M & I      | Agr     |         |
| Begin Bal              | 7,321.6 | 5,130.0    | 2,191.7                | 5,073.5    | 1,451.5 | 6,525.0 |
| ID#1 Exch (+61AF)      | -       | -          | -                      | 40.9       | 20.1    | 61.0    |
| Oct                    | -       | -          | -                      | -          | -       | -       |
| Nov                    | -       | -          | -                      | -          | -       | -       |
| Dec                    | -       | -          | -                      | -          | -       | -       |
| Jan                    | -       | -          | -                      | -          | -       | -       |
| Feb                    | -       | -          | -                      | -          | -       | -       |
| Mar                    | -       | -          | -                      | -          | -       | -       |
| Apr                    | -       | -          | -                      | -          | -       | -       |
| May                    | -       | -          | -                      | -          | -       | -       |
| Jun                    | -       | -          | -                      | -          | -       | -       |
| Jul                    | -       | -          | -                      | -          | -       | -       |
| Aug                    | -       | -          | -                      | -          | -       | -       |
| Sep                    | -       | -          | -                      | -          | -       | -       |

Month  
 Oct  
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| BALANCE - CARRYOVER WATER |         |            | BALANCE - CURR YR ALLOC |            |         |         |
|---------------------------|---------|------------|-------------------------|------------|---------|---------|
|                           | Total   | Allocation |                         | Allocation |         | Total   |
|                           |         | M & I      | Agr                     | M & I      | Agr     |         |
| Oct                       | 6,716.3 | 4,673.6    | 2,042.7                 | 5,114.4    | 1,471.6 | 6,586.0 |
| Nov                       | 6,215.1 | 4,278.0    | 1,937.1                 | 5,114.4    | 1,471.6 | 6,586.0 |
| Dec                       | 6,064.6 | 4,157.8    | 1,906.8                 | 5,114.4    | 1,471.6 | 6,586.0 |
| Jan                       | 5,951.7 | 4,057.9    | 1,893.8                 | 5,114.4    | 1,471.6 | 6,586.0 |
| Feb                       | 5,516.7 | 3,715.3    | 1,801.3                 | 5,114.4    | 1,471.6 | 6,586.0 |
| Mar                       | -       | -          | -                       | -          | -       | -       |
| Apr                       | -       | -          | -                       | -          | -       | -       |
| May                       | -       | -          | -                       | -          | -       | -       |
| Jun                       | -       | -          | -                       | -          | -       | -       |
| Jul                       | -       | -          | -                       | -          | -       | -       |
| Aug                       | -       | -          | -                       | -          | -       | -       |
| Sep                       | -       | -          | -                       | -          | -       | -       |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 12,102.7

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

Contract Year: 10/1/21 to: 9/30/22

Contract Entity: **City of Santa Barbara**  
 Update by COMB 2/28/2022

| Month | Carryover Balance Prior Yr | Approved Allocation Curr Yr |
|-------|----------------------------|-----------------------------|
| Oct   | 20,525.9                   | 5,794.0                     |
| Nov   | -                          | -                           |
| Dec   | -                          | -                           |
| Jan   | -                          | -                           |
| Feb   | -                          | -                           |
| Mar   | -                          | -                           |
| Apr   | -                          | -                           |
| May   | -                          | -                           |
| Jun   | -                          | -                           |
| Jul   | -                          | -                           |
| Aug   | -                          | -                           |
| Sep   | -                          | -                           |
| Total | 20,525.9                   | 5,794.0                     |

| TOTAL WATER USED |     |         | WATER USE CHARGED |         |         |         | WATER USE CHARGED |       |       |       |
|------------------|-----|---------|-------------------|---------|---------|---------|-------------------|-------|-------|-------|
| Acre-feet        |     |         | Allocation        |         |         |         | Allocation        |       |       |       |
| M & I            | Agr | Total   | Evap              | Used    | Total   | M & I   | -----             | M & I | ----- | Total |
| 639.1            | -   | 639.1   | 180.2             | 639.1   | 819.3   | 819.3   | -                 | -     | -     | -     |
| 517.5            | -   | 517.5   | 84.9              | 517.5   | 602.4   | 602.4   | -                 | -     | -     | -     |
| 379.4            | -   | 379.4   | 38.0              | 379.4   | 417.4   | 417.4   | -                 | -     | -     | -     |
| 430.9            | -   | 430.9   | 49.6              | 430.9   | 480.5   | 480.5   | -                 | -     | -     | -     |
| 540.2            | -   | 540.2   | 98.2              | 540.2   | 638.4   | 638.4   | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| -                | -   | -       | -                 | -       | -       | -       | -                 | -     | -     | -     |
| 2,507.1          | -   | 2,507.1 | 450.9             | 2,507.1 | 2,958.0 | 2,958.0 | -                 | -     | -     | -     |

| CONVERSIONS (M&I AND AG SPLIT) |     |                    |     |  |
|--------------------------------|-----|--------------------|-----|--|
| CARRYOVER WATER                |     | CURR YR ALLOCATION |     |  |
| M & I                          | Agr | M & I              | Agr |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
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| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
| -                              | -   | -                  | -   |  |
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| SCHEDULE AND REVISIONS |          |            | SCHEDULE AND REVISIONS |            |       |
|------------------------|----------|------------|------------------------|------------|-------|
|                        | Total    | Allocation |                        | Allocation |       |
|                        |          | M & I      | -----                  | M & I      | ----- |
| Begin Bal              | 20,525.9 | 20,525.9   | -                      | 5,794.0    | -     |
| ID#1 Exch (+41AF)      | -        | -          | -                      | 41.0       | -     |
| Oct                    | -        | -          | -                      | -          | -     |
| Nov                    | -        | -          | -                      | -          | -     |
| Dec                    | -        | -          | -                      | -          | -     |
| Jan                    | -        | -          | -                      | -          | -     |
| Feb                    | -        | -          | -                      | -          | -     |
| Mar                    | -        | -          | -                      | -          | -     |
| Apr                    | -        | -          | -                      | -          | -     |
| May                    | -        | -          | -                      | -          | -     |
| Jun                    | -        | -          | -                      | -          | -     |
| Jul                    | -        | -          | -                      | -          | -     |
| Aug                    | -        | -          | -                      | -          | -     |
| Sep                    | -        | -          | -                      | -          | -     |

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| BALANCE - CARRYOVER WATER |          |            | BALANCE - CURR YR ALLOC |            |       |
|---------------------------|----------|------------|-------------------------|------------|-------|
|                           | Total    | Allocation |                         | Allocation |       |
|                           |          | M & I      | -----                   | M & I      | ----- |
| Oct                       | 19,706.7 | 19,706.7   | -                       | 5,835.0    | -     |
| Nov                       | 19,104.3 | 19,104.3   | -                       | 5,835.0    | -     |
| Dec                       | 18,686.9 | 18,686.9   | -                       | 5,835.0    | -     |
| Jan                       | 18,206.4 | 18,206.4   | -                       | 5,835.0    | -     |
| Feb                       | 17,568.0 | 17,568.0   | -                       | 5,835.0    | -     |
| Mar                       | -        | -          | -                       | -          | -     |
| Apr                       | -        | -          | -                       | -          | -     |
| May                       | -        | -          | -                       | -          | -     |
| Jun                       | -        | -          | -                       | -          | -     |
| Jul                       | -        | -          | -                       | -          | -     |
| Aug                       | -        | -          | -                       | -          | -     |
| Sep                       | -        | -          | -                       | -          | -     |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 23,403.0

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

Contract Year: 10/1/21 to: 9/30/22

Contract Entity: **Montecito Water District**  
 Update by COMB 2/28/2022

| Month | Carryover Balance Prior Yr | Approved Allocation Curr Yr |
|-------|----------------------------|-----------------------------|
| Oct   | 2,994.6                    | 1,856.0                     |
| Nov   | -                          | -                           |
| Dec   | -                          | -                           |
| Jan   | -                          | -                           |
| Feb   | -                          | -                           |
| Mar   | -                          | -                           |
| Apr   | -                          | -                           |
| May   | -                          | -                           |
| Jun   | -                          | -                           |
| Jul   | -                          | -                           |
| Aug   | -                          | -                           |
| Sep   | -                          | -                           |
| Total | 2,994.6                    | 1,856.0                     |

| TOTAL WATER USED |      |       | WATER USE CHARGED |       |       |       | WATER USE CHARGED |       |     |       |
|------------------|------|-------|-------------------|-------|-------|-------|-------------------|-------|-----|-------|
| Acre-feet        |      |       | Allocation        |       |       |       | Allocation        |       |     |       |
| M & I            | Agr  | Total | Evap              | Used  | Total | M & I | Agr               | M & I | Agr | Total |
| 237.2            | 20.0 | 257.2 | 25.6              | 257.2 | 282.8 | 255.1 | 27.6              | -     | -   | -     |
| 211.0            | 15.9 | 226.9 | 11.3              | 226.9 | 238.2 | 218.7 | 19.5              | -     | -   | -     |
| 106.2            | 7.4  | 113.6 | 4.9               | 113.6 | 118.5 | 109.4 | 9.1               | -     | -   | -     |
| 35.8             | 1.0  | 36.8  | 6.3               | 36.8  | 43.1  | 39.8  | 3.3               | -     | -   | -     |
| 133.8            | 12.8 | 146.6 | 12.3              | 146.6 | 158.9 | 141.6 | 17.3              | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| -                | -    | -     | -                 | -     | -     | -     | -                 | -     | -   | -     |
| 724.0            | 57.1 | 781.1 | 60.3              | 781.1 | 841.4 | 764.6 | 76.8              | -     | -   | -     |

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

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| SCHEDULE AND REVISIONS |         |            | SCHEDULE AND REVISIONS |            |       |         |
|------------------------|---------|------------|------------------------|------------|-------|---------|
|                        | Total   | Allocation |                        | Allocation |       | Total   |
|                        |         | M & I      | Agr                    | M & I      | Agr   |         |
| Begin Bal              | 2,994.6 | 2,096.5    | 898.0                  | 1,571.0    | 285.0 | 1,856.0 |
| Oct                    | -       | -          | -                      | -          | -     | -       |
| Nov                    | -       | -          | -                      | -          | -     | -       |
| Dec                    | -       | -          | -                      | -          | -     | -       |
| Jan                    | -       | -          | -                      | -          | -     | -       |
| Feb                    | -       | -          | -                      | -          | -     | -       |
| Mar                    | -       | -          | -                      | -          | -     | -       |
| Apr                    | -       | -          | -                      | -          | -     | -       |
| May                    | -       | -          | -                      | -          | -     | -       |
| Jun                    | -       | -          | -                      | -          | -     | -       |
| Jul                    | -       | -          | -                      | -          | -     | -       |
| Aug                    | -       | -          | -                      | -          | -     | -       |
| Sep                    | -       | -          | -                      | -          | -     | -       |

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| BALANCE - CARRYOVER WATER |         |            | BALANCE - CURR YR ALLOC |            |       |         |
|---------------------------|---------|------------|-------------------------|------------|-------|---------|
|                           | Total   | Allocation |                         | Allocation |       | Total   |
|                           |         | M & I      | Agr                     | M & I      | Agr   |         |
| Oct                       | 2,711.8 | 1,841.4    | 870.4                   | 1,571.0    | 285.0 | 1,856.0 |
| Nov                       | 2,473.6 | 1,622.7    | 850.9                   | 1,571.0    | 285.0 | 1,856.0 |
| Dec                       | 2,355.1 | 1,513.3    | 841.8                   | 1,571.0    | 285.0 | 1,856.0 |
| Jan                       | 2,312.0 | 1,473.5    | 838.5                   | 1,571.0    | 285.0 | 1,856.0 |
| Feb                       | 2,153.2 | 1,331.9    | 821.3                   | 1,571.0    | 285.0 | 1,856.0 |
| Mar                       | -       | -          | -                       | -          | -     | -       |
| Apr                       | -       | -          | -                       | -          | -     | -       |
| May                       | -       | -          | -                       | -          | -     | -       |
| Jun                       | -       | -          | -                       | -          | -     | -       |
| Jul                       | -       | -          | -                       | -          | -     | -       |
| Aug                       | -       | -          | -                       | -          | -     | -       |
| Sep                       | -       | -          | -                       | -          | -     | -       |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,009.2

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

Contract Year: 10/1/21 to: 9/30/22

Contract Entity: **Carpinteria Valley Water District**  
 Update by COMB 2/28/2022

| Month | Carryover Balance Prior Yr | Approved Allocation Curr Yr |
|-------|----------------------------|-----------------------------|
| Oct   | 2,103.3                    | 1,969.0                     |
| Nov   | -                          | -                           |
| Dec   | -                          | -                           |
| Jan   | -                          | -                           |
| Feb   | -                          | -                           |
| Mar   | -                          | -                           |
| Apr   | -                          | -                           |
| May   | -                          | -                           |
| Jun   | -                          | -                           |
| Jul   | -                          | -                           |
| Aug   | -                          | -                           |
| Sep   | -                          | -                           |
| Total | 2,103.3                    | 1,969.0                     |

| TOTAL WATER USED |     |       |      | WATER USE CHARGED |       |       | WATER USE CHARGED |       |     |       |
|------------------|-----|-------|------|-------------------|-------|-------|-------------------|-------|-----|-------|
| Acre-feet        |     |       |      | Allocation        |       |       | Allocation        |       |     |       |
| M & I            | Agr | Total | Evap | Used              | Total | M & I | Agr               | M & I | Agr | Total |
| -                | -   | -     | 18.8 | -                 | 18.8  | 9.7   | 9.1               | -     | -   | -     |
| -                | -   | -     | 9.1  | -                 | 9.1   | 4.8   | 4.3               | -     | -   | -     |
| -                | -   | -     | 4.2  | -                 | 4.2   | 2.1   | 2.1               | -     | -   | -     |
| -                | -   | -     | 5.6  | -                 | 5.6   | 3.5   | 2.0               | -     | -   | -     |
| -                | -   | -     | 11.3 | -                 | 11.3  | 5.3   | 6.0               | -     | -   | -     |
| -                | -   | -     | -    | -                 | -     | -     | -                 | -     | -   | -     |
| -                | -   | -     | -    | -                 | -     | -     | -                 | -     | -   | -     |
| -                | -   | -     | -    | -                 | -     | -     | -                 | -     | -   | -     |
| -                | -   | -     | -    | -                 | -     | -     | -                 | -     | -   | -     |
| -                | -   | -     | -    | -                 | -     | -     | -                 | -     | -   | -     |
| -                | -   | -     | -    | -                 | -     | -     | -                 | -     | -   | -     |
| -                | -   | -     | 48.9 | -                 | 48.9  | 25.4  | 23.5              | -     | -   | -     |

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

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| SCHEDULE AND REVISIONS |         |            | SCHEDULE AND REVISIONS |            |       |         |
|------------------------|---------|------------|------------------------|------------|-------|---------|
|                        | Total   | Allocation |                        | Allocation |       | Total   |
|                        |         | M & I      | Agr                    | M & I      | Agr   |         |
| Begin Bal              | 2,103.3 | 1,085.4    | 1,017.9                | 984.5      | 984.5 | 1,969.0 |
| ID#1 Exch (+27AF)      | -       | -          | -                      | 18.1       | 8.9   | 27.0    |
| Oct                    | -       | -          | -                      | -          | -     | -       |
| Nov                    | -       | -          | -                      | -          | -     | -       |
| Dec                    | -       | -          | -                      | -          | -     | -       |
| Jan                    | -       | -          | -                      | -          | -     | -       |
| Feb                    | -       | -          | -                      | -          | -     | -       |
| Mar                    | -       | -          | -                      | -          | -     | -       |
| Apr                    | -       | -          | -                      | -          | -     | -       |
| May                    | -       | -          | -                      | -          | -     | -       |
| Jun                    | -       | -          | -                      | -          | -     | -       |
| Jul                    | -       | -          | -                      | -          | -     | -       |
| Aug                    | -       | -          | -                      | -          | -     | -       |
| Sep                    | -       | -          | -                      | -          | -     | -       |

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| BALANCE - CARRYOVER WATER |         |            | BALANCE - CURR YR ALLOC |            |       |         |
|---------------------------|---------|------------|-------------------------|------------|-------|---------|
|                           | Total   | Allocation |                         | Allocation |       | Total   |
|                           |         | M & I      | Agr                     | M & I      | Agr   |         |
| Oct                       | 2,084.6 | 1,075.7    | 1,008.8                 | 1,002.6    | 993.4 | 1,996.0 |
| Nov                       | 2,075.5 | 1,070.9    | 1,004.5                 | 1,002.6    | 993.4 | 1,996.0 |
| Dec                       | 2,071.3 | 1,068.9    | 1,002.5                 | 1,002.6    | 993.4 | 1,996.0 |
| Jan                       | 2,065.8 | 1,065.3    | 1,000.4                 | 1,002.6    | 993.4 | 1,996.0 |
| Feb                       | 2,054.4 | 1,060.0    | 994.4                   | 1,002.6    | 993.4 | 1,996.0 |
| Mar                       | -       | -          | -                       | -          | -     | -       |
| Apr                       | -       | -          | -                       | -          | -     | -       |
| May                       | -       | -          | -                       | -          | -     | -       |
| Jun                       | -       | -          | -                       | -          | -     | -       |
| Jul                       | -       | -          | -                       | -          | -     | -       |
| Aug                       | -       | -          | -                       | -          | -     | -       |
| Sep                       | -       | -          | -                       | -          | -     | -       |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,050.4

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

Contract Year: 10/1/21 to: 9/30/22

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**  
 Update by COMB 2/28/2022

| Month | Carryover Balance Prior Yr | Approved Allocation Curr Yr |
|-------|----------------------------|-----------------------------|
| Oct   | 2,361.5                    | 1,856.0                     |
| Nov   | -                          | -                           |
| Dec   | -                          | -                           |
| Jan   | -                          | -                           |
| Feb   | -                          | -                           |
| Mar   | -                          | -                           |
| Apr   | -                          | -                           |
| May   | -                          | -                           |
| Jun   | -                          | -                           |
| Jul   | -                          | -                           |
| Aug   | -                          | -                           |
| Sep   | -                          | -                           |
| Total | 2,361.5                    | 1,856.0                     |

| TOTAL WATER USED |     |       | WATER USE CHARGED |      |       | WATER USE CHARGED |      |       |
|------------------|-----|-------|-------------------|------|-------|-------------------|------|-------|
| Acre-feet        |     |       | Allocation        |      |       | Allocation        |      |       |
| M & I            | Agr | Total | Evap              | Used | Total | M & I             | Agr  | Total |
| 1.4              | -   | 1.4   | 21.1              | 1.4  | 22.4  | 3.7               | 18.8 | -     |
| 1.3              | -   | 1.3   | 10.2              | 1.3  | 11.5  | 2.4               | 9.1  | -     |
| 1.1              | -   | 1.1   | 4.7               | 1.1  | 5.8   | 1.6               | 4.2  | -     |
| 0.7              | -   | 0.7   | 6.2               | 0.7  | 6.9   | 1.4               | 5.6  | -     |
| 1.2              | -   | 1.2   | 12.7              | 1.2  | 13.9  | 2.5               | 11.3 | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| -                | -   | -     | -                 | -    | -     | -                 | -    | -     |
| 5.7              | -   | 5.7   | 54.8              | 5.7  | 60.6  | 11.6              | 49.0 | -     |

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

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| SCHEDULE AND REVISIONS |         |            | SCHEDULE AND REVISIONS |            |        |         |
|------------------------|---------|------------|------------------------|------------|--------|---------|
|                        | Total   | Allocation |                        | Allocation |        | Total   |
|                        |         | M & I      | Agr                    | M & I      | Agr    |         |
| Begin Bal              | 2,361.5 | 254.5      | 2,107.0                | 965.0      | 891.0  | 1,856.0 |
| ID#1 Exch (-129AF)     | -       | -          | -                      | (86.4)     | (42.6) | (129.0) |
| Oct                    | -       | -          | -                      | -          | -      | -       |
| Nov                    | -       | -          | -                      | -          | -      | -       |
| Dec                    | -       | -          | -                      | -          | -      | -       |
| Jan                    | -       | -          | -                      | -          | -      | -       |
| Feb                    | -       | -          | -                      | -          | -      | -       |
| Mar                    | -       | -          | -                      | -          | -      | -       |
| Apr                    | -       | -          | -                      | -          | -      | -       |
| May                    | -       | -          | -                      | -          | -      | -       |
| Jun                    | -       | -          | -                      | -          | -      | -       |
| Jul                    | -       | -          | -                      | -          | -      | -       |
| Aug                    | -       | -          | -                      | -          | -      | -       |
| Sep                    | -       | -          | -                      | -          | -      | -       |

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

| BALANCE - CARRYOVER WATER |         |            | BALANCE - CURR YR ALLOC |            |       |         |
|---------------------------|---------|------------|-------------------------|------------|-------|---------|
| County Parks Usage (AF)   | Total   | Allocation |                         | Allocation |       | Total   |
|                           |         | M & I      | Agr                     | M & I      | Agr   |         |
| 1.4                       | 2,339.1 | 250.9      | 2,088.2                 | 878.6      | 848.4 | 1,727.0 |
| 1.3                       | 2,327.6 | 248.5      | 2,079.1                 | 878.6      | 848.4 | 1,727.0 |
| 1.1                       | 2,321.8 | 246.8      | 2,074.9                 | 878.6      | 848.4 | 1,727.0 |
| 0.7                       | 2,314.8 | 245.5      | 2,069.4                 | 878.6      | 848.4 | 1,727.0 |
| 1.2                       | 2,301.0 | 242.9      | 2,058.0                 | 878.6      | 848.4 | 1,727.0 |
| -                         | -       | -          | -                       | -          | -     | -       |
| -                         | -       | -          | -                       | -          | -     | -       |
| -                         | -       | -          | -                       | -          | -     | -       |
| -                         | -       | -          | -                       | -          | -     | -       |
| -                         | -       | -          | -                       | -          | -     | -       |
| -                         | -       | -          | -                       | -          | -     | -       |
| -                         | -       | -          | -                       | -          | -     | -       |
| -                         | -       | -          | -                       | -          | -     | -       |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,028.0



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

Contract Year: 10/1/21 to: 9/30/22

Contract Entity: **Santa Barbara Co. Water Agency**  
 Update by COMB 2/28/2022

| Month | Carryover Balance Prior Yr | Approved Allocation Curr Yr | TOTAL WATER USED |         |       |         | WATER USE CHARGED |         |         | WATER USE CHARGED |       |       |     |       |
|-------|----------------------------|-----------------------------|------------------|---------|-------|---------|-------------------|---------|---------|-------------------|-------|-------|-----|-------|
|       |                            |                             | Acre-feet        |         |       |         | Allocation        |         |         | Allocation        |       |       |     |       |
|       |                            |                             | Use %            | M & I   | Agr   | Total   | Evap              | Div     | Total   | M & I             | Agr   | M & I | Agr | Total |
| Oct   | 35,307.0                   | 18,000.0                    | 0.0              | 1,290.0 | 150.2 | 1,440.2 | 308.4             | 1,440.2 | 1,748.6 | 1,544.1           | 204.5 | -     | -   | -     |
| Nov   | -                          | -                           | 0.0              | 1,105.8 | 112.8 | 1,218.6 | 143.9             | 1,218.6 | 1,362.5 | 1,224.0           | 138.5 | -     | -   | -     |
| Dec   | -                          | -                           | 0.0              | 598.4   | 33.9  | 632.3   | 64.0              | 632.3   | 696.3   | 650.6             | 45.7  | -     | -   | -     |
| Jan   | -                          | -                           | 0.0              | 556.2   | 9.0   | 565.2   | 83.8              | 565.2   | 649.0   | 625.1             | 23.9  | -     | -   | -     |
| Feb   | -                          | -                           | 0.0              | 996.3   | 95.2  | 1,091.5 | 165.9             | 1,091.5 | 1,257.4 | 1,130.4           | 127.0 | -     | -   | -     |
| Mar   | -                          | -                           | -                | -       | -     | -       | -                 | -       | -       | -                 | -     | -     | -   | -     |
| Apr   | -                          | -                           | -                | -       | -     | -       | -                 | -       | -       | -                 | -     | -     | -   | -     |
| May   | -                          | -                           | -                | -       | -     | -       | -                 | -       | -       | -                 | -     | -     | -   | -     |
| Jun   | -                          | -                           | -                | -       | -     | -       | -                 | -       | -       | -                 | -     | -     | -   | -     |
| Jul   | -                          | -                           | -                | -       | -     | -       | -                 | -       | -       | -                 | -     | -     | -   | -     |
| Aug   | -                          | -                           | -                | -       | -     | -       | -                 | -       | -       | -                 | -     | -     | -   | -     |
| Sep   | -                          | -                           | -                | -       | -     | -       | -                 | -       | -       | -                 | -     | -     | -   | -     |
| Total | 35,307.0                   | 18,000.0                    | 0.1              | 4,546.7 | 401.1 | 4,947.7 | 766.1             | 4,947.7 | 5,713.8 | 5,174.2           | 539.6 | -     | -   | -     |

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

| Month | SCHEDULE AND REVISIONS |       |            | SCHEDULE AND REVISIONS |            |        |
|-------|------------------------|-------|------------|------------------------|------------|--------|
|       | Begin Bal              | Total | Allocation |                        | Allocation |        |
|       |                        |       | M & I      | Agr                    | M & I      | Agr    |
| Oct   | -                      | -     | -          | -                      | 13.5       | (13.5) |
| Nov   | -                      | -     | -          | -                      | -          | -      |
| Dec   | -                      | -     | -          | -                      | -          | -      |
| Jan   | -                      | -     | -          | -                      | -          | -      |
| Feb   | -                      | -     | -          | -                      | -          | -      |
| Mar   | -                      | -     | -          | -                      | -          | -      |
| Apr   | -                      | -     | -          | -                      | -          | -      |
| May   | -                      | -     | -          | -                      | -          | -      |
| Jun   | -                      | -     | -          | -                      | -          | -      |
| Jul   | -                      | -     | -          | -                      | -          | -      |
| Aug   | -                      | -     | -          | -                      | -          | -      |
| Sep   | -                      | -     | -          | -                      | -          | -      |

| Month | BALANCE - CARRYOVER WATER |          |            | BALANCE - CURR YR ALLOC |            |         |
|-------|---------------------------|----------|------------|-------------------------|------------|---------|
|       | County Parks Usage (AF)   | Total    | Allocation |                         | Allocation |         |
|       |                           |          | M & I      | Agr                     | M & I      | Agr     |
| Oct   | 1.4                       | 33,558.4 | 27,548.3   | 6,010.1                 | 14,401.5   | 3,598.5 |
| Nov   | 1.3                       | 32,196.0 | 26,324.3   | 5,871.7                 | 14,401.5   | 3,598.5 |
| Dec   | 1.1                       | 31,499.6 | 25,673.7   | 5,826.0                 | 14,401.5   | 3,598.5 |
| Jan   | 0.7                       | 30,850.6 | 25,048.6   | 5,802.1                 | 14,401.5   | 3,598.5 |
| Feb   | 1.2                       | 29,593.2 | 23,918.1   | 5,675.1                 | 14,401.5   | 3,598.5 |
| Mar   | -                         | -        | -          | -                       | -          | -       |
| Apr   | -                         | -        | -          | -                       | -          | -       |
| May   | -                         | -        | -          | -                       | -          | -       |
| Jun   | -                         | -        | -          | -                       | -          | -       |
| Jul   | -                         | -        | -          | -                       | -          | -       |
| Aug   | -                         | -        | -          | -                       | -          | -       |
| Sep   | -                         | -        | -          | -                       | -          | -       |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 47,593.2

# CACHUMA DAILY OPERATIONS

Month & Year: **March 2022**  
 Time of Observations: **0830** Evaporation Pan Factor: **76%**

| Day | Beginning Storage: 91,642 |           |           | Surface Area | Rainfall |           | Evaporation |           | CCWA Inflow | Releases       |             |              |           |           | Computed Inflow |           |        |
|-----|---------------------------|-----------|-----------|--------------|----------|-----------|-------------|-----------|-------------|----------------|-------------|--------------|-----------|-----------|-----------------|-----------|--------|
|     | Elevation                 | Storage   | Change    |              | inches   | acre-feet | inches      | acre-feet |             | Park Diversion | South Coast | Hilton Creek | WR 89-18  | Outlet    |                 | Spillway  |        |
|     | ft                        | acre-feet | acre-feet | acres        | inches   | acre-feet | inches      | acre-feet | acre-feet   | acre-feet      | acre-feet   | acre-feet    | acre-feet | acre-feet | acre-feet       | acre-feet |        |
| 1   | 711.30                    | 91,605    | (37)      | 1,858        | -        |           | 0.170       | 20.0      |             | 34.2           |             | 72.2         | 2.4       | -         | 11.0            | -         | 34.4   |
| 2   | 711.25                    | 91,512    | (93)      | 1,857        | -        |           | 0.160       | 18.8      |             | 12.0           |             | 83.1         | 2.4       | -         | 12.0            | -         | 11.3   |
| 3   | 711.21                    | 91,438    | (74)      | 1,856        | -        |           | 0.140       | 16.5      |             | 12.3           |             | 81.2         | 2.4       | -         | 11.0            | -         | 24.8   |
| 4   | 711.17                    | 91,364    | (74)      | 1,855        | -        |           | 0.090       | 10.6      |             | 12.3           |             | 73.6         | 2.4       | -         | 11.0            | -         | 11.3   |
| 5   | 711.13                    | 91,289    | (75)      | 1,854        | 0.01     | 1.5       | 0.170       | 20.0      |             | 12.3           |             | 63.1         | 2.3       | -         | 11.0            | -         | 7.5    |
| 6   | 711.08                    | 91,178    | (111)     | 1,853        | -        |           | 0.090       | 10.6      |             | 12.3           |             | 66.2         | 2.4       | -         | 11.0            | -         | (33.1) |
| 7   | 711.05                    | 91,141    | (37)      | 1,852        | -        |           | 0.110       | 12.9      |             | 12.3           |             | 64.0         | 2.3       | -         | 17.0            | -         | 46.9   |
| 8   | 711.03                    | 91,104    | (37)      | 1,852        | -        |           | 0.130       | 15.2      |             | 12.3           |             | 59.8         | 2.4       | -         | 16.0            | -         | 44.1   |
| 9   | 710.99                    | 91,030    | (74)      | 1,851        | -        |           | 0.140       | 16.4      |             | 12.3           |             | 57.4         | 2.3       | -         | 17.0            | -         | 6.8    |
| 10  | 710.94                    | 90,937    | (93)      | 1,849        | -        |           | 0.140       | 16.4      |             | 12.3           |             | 61.4         | 2.4       | -         | 17.0            | -         | (8.1)  |
| 11  | 710.90                    | 90,863    | (74)      | 1,849        | -        |           | 0.140       | 16.4      |             | 12.3           |             | 65.3         | 2.3       | -         | 17.0            | -         | 14.7   |
| 12  | 710.87                    | 90,807    | (56)      | 1,848        | -        |           | 0.190       | 22.2      |             | 12.3           |             | 71.4         | 2.3       | -         | 17.0            | -         | 44.6   |
| 13  | 710.83                    | 90,733    | (74)      | 1,847        | -        |           | 0.160       | 18.7      |             | 11.9           |             | 58.5         | 2.2       | -         | 16.0            | -         | 9.5    |
| 14  | 710.78                    | 90,640    | (93)      | 1,846        | -        |           | 0.130       | 15.2      |             | 12.4           |             | 65.6         | 2.3       | -         | 16.0            | -         | (6.3)  |
| 15  | 710.73                    | 90,547    | (93)      | 1,844        | -        |           | 0.170       | 19.9      |             | 3.6            |             | 63.4         | 2.2       | -         | 17.0            | -         | 5.9    |
| 16  | 710.71                    | 90,510    | (37)      | 1,844        | -        |           | 0.110       | 12.8      |             | 8.0            |             | 66.5         | 2.4       | -         | 18.0            | -         | 54.7   |
| 17  | 710.65                    | 90,399    | (111)     | 1,843        | -        |           | 0.190       | 22.2      |             | 12.7           |             | 73.6         | 2.2       | -         | 17.0            | -         | (8.7)  |
| 18  | 710.61                    | 90,325    | (74)      | 1,842        | -        |           | 0.130       | 15.2      |             | 12.7           |             | 78.6         | 2.3       | -         | 17.0            | -         | 26.4   |
| 19  | 710.57                    | 90,252    | (73)      | 1,841        | -        |           | 0.170       | 19.8      |             | 12.7           |             | 78.9         | 2.2       | -         | 17.0            | -         | 32.2   |
| 20  | 710.51                    | 90,142    | (110)     | 1,839        | 0.06     | 9.2       | 0.120       | 14.0      |             | 12.8           |             | 79.5         | 2.3       | -         | 17.0            | -         | (19.2) |
| 21  | 710.49                    | 90,105    | (37)      | 1,838        | -        |           | 0.190       | 22.1      |             | 12.7           |             | 52.4         | 2.2       | -         | 17.0            | -         | 44.0   |
| 22  | 710.44                    | 90,014    | (91)      | 1,837        | -        |           | 0.260       | 30.3      |             | 12.7           |             | 53.5         | 2.2       | -         | 17.0            | -         | (0.7)  |
| 23  | 710.41                    | 89,959    | (55)      | 1,836        | -        |           | 0.190       | 22.1      |             | 12.7           |             | 69.5         | 2.2       | -         | 18.0            | -         | 44.1   |
| 24  | 710.35                    | 89,849    | (110)     | 1,835        | -        |           | 0.240       | 27.9      |             | 12.7           |             | 75.3         | 2.2       | -         | 17.0            | -         | (0.3)  |
| 25  |                           |           |           |              |          |           |             |           |             |                |             |              |           |           |                 |           |        |
| 26  |                           |           |           |              |          |           |             |           |             |                |             |              |           |           |                 |           |        |
| 27  |                           |           |           |              |          |           |             |           |             |                |             |              |           |           |                 |           |        |
| 28  |                           |           |           |              |          |           |             |           |             |                |             |              |           |           |                 |           |        |
| 29  |                           |           |           |              |          |           |             |           |             |                |             |              |           |           |                 |           |        |
| 30  |                           |           |           |              |          |           |             |           |             |                |             |              |           |           |                 |           |        |
| 31  |                           |           |           |              |          |           |             |           |             |                |             |              |           |           |                 |           |        |

|               |  |                |  |  |      |      |       |       |   |       |   |         |      |   |       |   |       |
|---------------|--|----------------|--|--|------|------|-------|-------|---|-------|---|---------|------|---|-------|---|-------|
| <b>TOTALS</b> |  | <b>(1,793)</b> |  |  | 0.07 | 10.7 | 3.730 | 436.1 | - | 306.8 | - | 1,634.0 | 55.2 | - | 372.0 | - | 386.7 |
|---------------|--|----------------|--|--|------|------|-------|-------|---|-------|---|---------|------|---|-------|---|-------|

Park Usage  Rain Yr. Total



**Santa Barbara County Parks Division,  
Cachuma Lake Recreation Area  
Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: February 2022**



| <b>Cachuma Lake Recreation Area<br/>Launch Data -- February 2022</b> |     |     |
|--|-----|-----|
| <b>Inspection Data</b>   |     |     |
| Total Vessels Entering Park  | 565 |     |
| Total Vessels Launched   | 544 |     |
| Total Vessels Quarantined  | 21  |     |
| Returning (Tagged) Boats Launched                                    | 451 | 83% |
| Kayak/Canoe: Inspected, launched                                     | 93  | 17% |
| 4-stroke Engines   | *   |     |
| 2-strokes, w/CARB star ratings                                       | *   |     |
| 2-strokes, NO emissions ratings                                      | *   |     |
| <b>Quarantine Data</b>   |     |     |
| Total Vessels Quarantined  | 21  |     |
| Quarantined 14 days  | *   |     |
| Quarantined 30 days  | 21  |     |
| <b>Quarantine Cause</b>  |     |     |
| Water on vessel*   | *   |     |
| Debris on hull*  | *   |     |
| Plug installed*  | *   |     |
| From infected county   | 7   |     |
| Ballast tanks*   | *   |     |
| Boat longer than 24 feet*  | *   |     |
| Out-of-state   | 0   |     |
| Unspecified*   | *   |     |
| Mandatory Quarantine All Untagged Boats                              | 21  |     |
| <b>Demographic Data</b>  |     |     |
| Quarantined from infected county                                     | 7   |     |
| Quarantined from SB County   | 12  |     |
| Quarantined from uninfected co                                       | 2   |     |

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.

Inspection Date and Time: 2022.02.24; 10 a.m. to 12 p.m. PDT.

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

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

Lake elevation: Max feet: 753.00, current 711.40; Max acre-feet: 193,305, current: 90,756;

Current capacity: 47.0%