

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

*held at*

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

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**Monday, April 23, 2018**

**2:00 PM**

**AGENDA**

1. **CALL TO ORDER, ROLL CALL**
2. **PUBLIC COMMENT** (*Public may address the Board on any subject matter not on the agenda and within the Board's jurisdiction. See "Notice to the Public" below. Please make your comments from the podium once acknowledged by the President of the Board.*)
3. **CONSENT AGENDA** (*All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.*)  
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
  - a. Minutes March 26, 2018 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:
  - Operations Committee Meeting – April 11, 2018
  - Fisheries Committee Meeting – April 18, 2018
5. **QUARTERLY FINANCIAL REVIEW**  
Receive information on Financial Position for 3<sup>rd</sup> Quarter FY 2017-18
6. **RESOLUTION NO. 659 - MEMORANDUM OF UNDERSTANDING – PARTICIPATION IN STATEWIDE AND COUNTYWIDE INTEGRATED REGIONAL WATER MANAGEMENT (IRWM) PROGRAM IN SANTA BARBARA COUNTY**  
Action: Recommend approval by motion and roll call vote of the Board
7. **RESOLUTION NO. 660 – APPROVING ISSUANCE OF A NOTICE OF AWARD AND AUTHORIZING CONTRACT EXECUTION FOR CONSTRUCTION OF THE AIR VACUUM AIR RELEASE / BLOW-OFF STRUCTURE REHABILITATION PROJECT**  
Action: Recommend approval by motion and roll call vote of the Board

8. **QUIOTA CREEK CROSSING 5 AND CROSSING 9 FISH PASSAGE IMPROVEMENT PROJECTS**

Action: Recommend approval by motion and roll call vote of the Board

9. **GENERAL MANAGER REPORT**

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

- Meetings
- Administration
- Operations Division Administration
- Fisheries Division Activities Update

10. **WATER RESOURCES ENGINEER REPORT**

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

- Cachuma Conveyance Operations FY 2018-19
- Lake Cachuma Evaporation Update
- Infrastructure Improvement Planning

11. **OPERATIONS DIVISION REPORT**

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

- Lake Cachuma Operations
- Operation and Maintenance Activities

12. **FISHERIES DIVISION REPORT**

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

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

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

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

- Maintenance and Monitoring

14. **MONTHLY CACHUMA PROJECT REPORTS**

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

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

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

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

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

17. **[CLOSED SESSION]: ANNUAL PERFORMANCE REVIEW**

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

**18. RECONVENE INTO OPEN SESSION**

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

16a. Protest of Member Agency re: Payment of Quarterly Assessment

17a. Annual Performance Review

**19. MEETING SCHEDULE**

- **May 21, 2018 at 2:00 PM, COMB Office**
- **Board Packages Available on COMB Website [www.cachuma-board.org](http://www.cachuma-board.org)**

**20. COMB ADJOURNMENT**

**NOTICE TO PUBLIC**

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

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

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

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

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

**MINUTES OF A REGULAR MEETING  
of the  
CACHUMA OPERATION AND MAINTENANCE BOARD  
held at  
3301 Laurel Canyon Road, Santa Barbara, CA  
Monday, March 26, 2018**

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

The meeting was called to order at 2:01 p.m. by President Morgan who chaired the meeting. Those in attendance were:

**Directors Present:**

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

**Staff Present:**

|  |                                       |
|--|---------------------------------------|
| Janet Gingras, General Manager           | Joel Degner, Water Resources Engineer |
| Edward Lyons, Administrative Manager/CFO | William Carter, General Counsel       |
| Tim Robinson, Fisheries Division Manager |                                       |

**Others Present:**

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Kelley Dyer, City of SB Public Works  | Fray Crease, SB County Water Agency  |
| Philip Walker, Santa Barbara resident | Dan Hentschke, City of Santa Barbara |

**2. Public Comment**

Mr. Walker shared with the Board information on the 2009 Oroville Dam accident that occurred when Department of Water Resources (DWR) employees were working on the 6' diameter pipe and valves.

**3. Consent Agenda**

Ms. Gingras presented the Consent Agenda as provided in the board packet. Ms. Gingras fielded questions from the Board.

**a. Minutes**

- Minutes of February 26, 2018 Regular Board Meeting

**b. Investment of Funds**

- Financial Reports
- Investment Reports

**c. Review of Paid Claims**

Director Hanson made a motion to approve the Consent Agenda as presented. Seconded by Director Holcombe; the motion passed by 6/0/1/0 vote:

**Ayes:** Sneddon, Holcombe, Hanson, Morgan

**Nayes:**

**Absent:** Walsh

**Abstain:**

4. **Resolution No. 658 – Approval and Ratification of Expenditures for Emergency Contract Work**

Ms. Gingras presented Resolution No. 658 as provided in the board packet. On February 26, 2018, the Board adopted Resolution No. 655 for a declaration of emergency and authorization for the General Manager to contract for performance of remedial work without competitive bid solicitation. A contract for emergency work was executed with Cushman Contracting Corporation. In accordance with COMB's Procurement Policy, expenditures for emergency contract work are required to be brought to the Board for ratification and approval. Ms. Gingras fielded questions from the Board. Director Holcombe made a motion to adopt Resolution No. 658. Seconded by Director Sneddon; the motion passed by 6/0/1/0 vote:

**Ayes:** Sneddon, Holcombe, Hanson, Morgan

**Nayes:**

**Absent:** Walsh

**Abstain:**

5. **Appointment of Representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of funds Discussion**

Ms. Gingras presented this item as provided in the board packet and fielded questions from the Board. Director Hanson moved to appoint COMB General Manager, Ms. Gingras, as representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of Funds discussion. Seconded by Director Sneddon; the motion passed by 6/0/1/0 vote:

**Ayes:** Sneddon, Holcombe, Hanson, Morgan

**Nayes:**

**Absent:** Walsh

**Abstain:**

6. **General Manager Report**

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

Ms. Gingras presented topics within her report as provided in the board packet highlighting the prior months' meeting with the Cachuma Project Member Agencies, as well as, the upcoming

meeting between the Bureau of Reclamation, the County Water Agency and the Cachuma Project Member Agencies regarding the Cachuma Project 2015 and 2016 deficits, the 2018 water rates and Reclamation's upcoming 2018-19 projected operational budget for the Cachuma Project. Ms. Gingras also reported on various staff activities including the distribution of the Cachuma Project preliminary cost estimates for FY 2018-19 to the Member Agencies, the anticipated receipt of a premium adjustment refund from COMB's insurance program ACWA/JPIA, staff's attendance at the Integrated Regional Water Management Plan (IRWM) meeting as well as various fisheries related activities. Ms. Gingras fielded questions from the Board.

**7. Water Resources Engineer Report**

- Update on March 20-22 Storm Impacts
- Emergency Pumping Facility Project
- Infrastructure Improvement Projects

Mr. Degner presented the monthly Water Resources Engineer Report as provided in the board packet highlighting the March 20-22 storm impacts on Cachuma Lake and throughout the distribution system. Mr. Degner also reported on current drought conditions, the Emergency Pumping Facility Project and updated the Board on the Infrastructure Improvement Projects. Mr. Degner fielded questions from the Board.

**8. Operations Division Report**

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Degner presented the report on behalf of the Operations Division Manager as provided in the board packet. Mr. Degner updated the Board on the Infrastructure Improvement Plan projects along with a detailed summary of the Division's tasks and objectives for February. Mr. Degner fielded questions from the Board.

**9. Fisheries Division Report**

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

Mr. Robinson presented topics within his report as provided in the board packet. Mr. Robinson offered further detail on recent Fisheries Division activities highlighting a meeting between COMB staff and the Bureau of Reclamation regarding Annual Monitoring Reports. Mr. Robinson fielded questions from the Board.

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

- Maintenance and Monitoring

Mr. Robinson presented topics within his report as incorporated in the board packet highlighting staff's ongoing mitigation efforts for the Oak Tree Program.

**Monthly Cachuma Project Reports**

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

Ms. Gingras reviewed the monthly water reports as incorporated in the board packet. Ms. Gingras fielded questions from the Board.

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

- There were no agenda item requests.

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

The Board went into closed session at 3:30 PM

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

**13. RECONVENE INTO OPEN SESSION**

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

The Board came out of closed session at 4:23 PM

Reportable action: The Board approved the initiation of litigation for a Member Agency's failure to pay quarterly assessments. The Board further directed the General Manager and COMB legal counsel to hold the filing of the lawsuit pending any additional productive discussions with the other party at issue, assuming an extension of the existing tolling agreement is signed by both parties before the current expiration date of March 30, and after such time the General Manager has notified designated Directors that such discussions have ended and the matter is to be filed. Once any litigation is initiated, the pertinent and required information regarding that litigation will be publicly disclosed.

**14. Meeting Schedule**

- **April 23, 2018 at 2:00 PM, COMB Office**
- **Board Packages Available on COMB Website**  
[www.cachuma-board.org](http://www.cachuma-board.org)

**15. COMB Adjournment**

There being no further business, the meeting adjourned at 4:25 PM.

Respectfully submitted,

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Janet Gingras, Secretary of the Board

**APPROVED:**

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Doug Morgan, President of the Board

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



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

**ASSETS**

**Current Assets**

**Checking/Savings**

**Trust Funds**

1210 · Warren Act Trust Fund 684,375.32

1220 · Renewal Fund 10,215.61

**Total Trust Funds** 694,590.93

1050 · General Fund 2,549,791.52

1100 · Revolving Fund 149,943.61

**Total Checking/Savings** 3,394,326.06

**Accounts Receivable**

1320 · Quarterly Assessments Receivable 230,738.00

1325 · Bank Loan Receivable - EPFP 115,862.55

**Total Accounts Receivable** 346,600.55

**Other Current Assets**

1010 · Petty Cash 500.00

1200 · LAIF 824,836.61

1303 · Bradbury SOD Act Assessment Receivable 190,101.00

1304 · Lauro Dam SOD Assessment Receivable 29,472.92

1400 · Prepaid Insurance 19,432.72

**Total Other Current Assets** 1,064,343.25

**Total Current Assets**

4,805,269.86

**Fixed Assets**

1500 · Vehicles 411,918.76

1505 · Office Furn & Equipment 443,923.41

1510 · Mobile Offices 97,803.34

1515 · Field Equipment 563,100.87

1525 · Paving 38,351.00

1550 · Accumulated Depreciation -1,407,786.02

**Total Fixed Assets**

147,311.36

**Other Assets**

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

1920 · LT Lauro SOD Act Assessment Receivable 865,427.91

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

**Total Other Assets**

6,163,308.98

**TOTAL ASSETS**

11,115,890.20

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

**LIABILITIES & NET POSITION**

**Liabilities**

**Current Liabilities**

**Accounts Payable**

2200 · Accounts Payable 100,322.70

**Total Accounts Payable** 100,322.70

**Other Current Liabilities**

2550 · Vacation/Sick 143,385.84

2560 · Cachuma Entitlement 1,144,863.63

2561 · Bradbury Dam SOD Act 190,111.66

2563 · Laura Dam SOD Act 29,472.92

2565 · Accrued Interest SOD Act 66,595.00

2567 · Loan Payable Current EPFP 402,389.08

2590 · Deferred Revenue 694,590.93

**Total Other Current Liabilities** 2,671,409.06

**Total Current Liabilities** 2,771,731.76

**Long Term Liabilities**

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

2603 · LT SOD Act Liability - Lauro 865,427.91

2604 · OPEB LT Liability 1,054,948.00

2605 · Loan Payable Principal - EPFP 1,047,501.27

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

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

**Total Long Term Liabilities** 9,520,929.25

**Total Liabilities** 12,292,661.01

**Net Position**

3000 · Opening Bal Equity -1,356,592.05

3901 · Retained Net Assets -860,682.51

**Net Income** 1,040,503.75

**Total Net Position** -1,176,770.81

**TOTAL LIABILITIES & NET POSITION** 11,115,890.20

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

|  | Fisheries           |                     |                      |               | Operations          |                     |                    |               | TOTAL               |                     |                      |               |
|--|---------------------|---------------------|----------------------|---------------|---------------------|---------------------|--------------------|---------------|---------------------|---------------------|----------------------|---------------|
|  | Jul '17 - Mar 18    | Budget              | \$ Over Budget       | % of Budget   | Jul '17 - Mar 18    | Budget              | \$ Over Budget     | % of Budget   | Jul '17 - Mar 18    | Budget              | \$ Over Budget       | % of Budget   |
| <b>Revenue</b>                               |                     |                     |                      |               |                     |                     |                    |               |                     |                     |                      |               |
| <b>3000 REVENUE</b>                          |                     |                     |                      |               |                     |                     |                    |               |                     |                     |                      |               |
| 3001 · O&M Budget (Qtrly Assessments)        | 593,619.00          | 821,492.00          | -227,873.00          | 72.26%        | 2,124,891.00        | 2,893,190.00        | -768,299.00        | 73.45%        | 2,718,510.00        | 3,714,682.00        | -996,172.00          | 73.18%        |
| 3006 · Warren Act                            | 512,709.20          | 620,361.00          | -107,651.80          | 82.65%        | 0.00                |                     |                    |               | 512,709.20          | 620,361.00          | -107,651.80          | 82.65%        |
| 3009 · Pmts - Member Agencies - EPPF         | 0.00                |                     |                      |               | 347,587.67          |                     |                    |               | 347,587.67          | 0.00                | 347,587.67           | 100.0%        |
| 3010 · Interest Income                       | 0.00                |                     |                      |               | 7,613.32            |                     |                    |               | 7,613.32            | 0.00                | 7,613.32             | 100.0%        |
| 3020 · Misc Income                           | 8,122.74            |                     |                      |               | 295.13              |                     |                    |               | 8,417.87            | 0.00                | 8,417.87             | 100.0%        |
| 3035 · Cachuma Project Betterment Fund       | 0.00                | 90,000.00           | -90,000.00           | 0.0%          | 0.00                |                     |                    |               | 0.00                | 90,000.00           | -90,000.00           | 0.0%          |
| 3037 · Grant-QC Crossing #5                  | 0.00                | 893,287.00          | -893,287.00          | 0.0%          | 0.00                |                     |                    |               | 0.00                | 893,287.00          | -893,287.00          | 0.0%          |
| 3038 · Log Boom Match                        | 0.00                |                     |                      |               | 30,000.00           |                     |                    |               | 30,000.00           | 0.00                | 30,000.00            | 100.0%        |
| 3090 · Proceeds - Disp of Fixed Asset        | 4,201.00            |                     |                      |               | 0.00                |                     |                    |               | 4,201.00            | 0.00                | 4,201.00             | 100.0%        |
| <b>Total 3000 REVENUE</b>                    | <b>1,118,651.94</b> | <b>2,425,140.00</b> | <b>-1,306,488.06</b> | <b>46.13%</b> | <b>2,510,387.12</b> | <b>2,893,190.00</b> | <b>-382,802.88</b> | <b>86.77%</b> | <b>3,629,039.06</b> | <b>5,318,330.00</b> | <b>-1,689,290.94</b> | <b>68.24%</b> |
| <b>Total Revenue</b>                         | <b>1,118,651.94</b> | <b>2,425,140.00</b> | <b>-1,306,488.06</b> | <b>46.13%</b> | <b>2,510,387.12</b> | <b>2,893,190.00</b> | <b>-382,802.88</b> | <b>86.77%</b> | <b>3,629,039.06</b> | <b>5,318,330.00</b> | <b>-1,689,290.94</b> | <b>68.24%</b> |
| <b>Gross Profit</b>                          | <b>1,118,651.94</b> | <b>2,425,140.00</b> | <b>-1,306,488.06</b> | <b>46.13%</b> | <b>2,510,387.12</b> | <b>2,893,190.00</b> | <b>-382,802.88</b> | <b>86.77%</b> | <b>3,629,039.06</b> | <b>5,318,330.00</b> | <b>-1,689,290.94</b> | <b>68.24%</b> |
| <b>Expense</b>                               |                     |                     |                      |               |                     |                     |                    |               |                     |                     |                      |               |
| <b>3100 · LABOR - OPERATIONS</b>             | 0.00                |                     |                      |               | 484,889.25          | 789,107.00          | -304,217.75        | 61.45%        | 484,889.25          | 789,107.00          | -304,217.75          | 61.45%        |
| <b>3200 VEH &amp; EQUIPMENT</b>              |                     |                     |                      |               |                     |                     |                    |               |                     |                     |                      |               |
| 3201 · Vehicle/Equip Mtce                    | 0.00                |                     |                      |               | 26,397.10           | 30,000.00           | -3,602.90          | 87.99%        | 26,397.10           | 30,000.00           | -3,602.90            | 87.99%        |
| 3202 · Fixed Capital                         | 0.00                |                     |                      |               | 1,358.73            | 15,000.00           | -13,641.27         | 9.06%         | 1,358.73            | 15,000.00           | -13,641.27           | 9.06%         |
| 3203 · Equipment Rental                      | 0.00                |                     |                      |               | 1,320.49            | 5,000.00            | -3,679.51          | 26.41%        | 1,320.49            | 5,000.00            | -3,679.51            | 26.41%        |
| 3204 · Miscellaneous                         | 0.00                |                     |                      |               | 3,138.90            | 5,000.00            | -1,861.10          | 62.78%        | 3,138.90            | 5,000.00            | -1,861.10            | 62.78%        |
| <b>Total 3200 VEH &amp; EQUIPMENT</b>        | 0.00                |                     |                      |               | 32,215.22           | 55,000.00           | -22,784.78         | 58.57%        | 32,215.22           | 55,000.00           | -22,784.78           | 58.57%        |
| <b>3300 · CONTRACT LABOR</b>                 |                     |                     |                      |               |                     |                     |                    |               |                     |                     |                      |               |
| 3301 · Conduit, Meter, Valve & Misc          | 0.00                |                     |                      |               | 7,111.57            | 20,000.00           | -12,888.43         | 35.56%        | 7,111.57            | 20,000.00           | -12,888.43           | 35.56%        |
| 3302 · Buildings & Roads                     | 0.00                |                     |                      |               | 4,054.90            | 20,000.00           | -15,945.10         | 20.28%        | 4,054.90            | 20,000.00           | -15,945.10           | 20.28%        |
| 3303 · Reservoirs                            | 0.00                |                     |                      |               | 0.00                | 30,000.00           | -30,000.00         | 0.0%          | 0.00                | 30,000.00           | -30,000.00           | 0.0%          |
| 3304 · Engineering, Misc Services            | 0.00                |                     |                      |               | 0.00                | 25,000.00           | -25,000.00         | 0.0%          | 0.00                | 25,000.00           | -25,000.00           | 0.0%          |
| <b>Total 3300 · CONTRACT LABOR</b>           | 0.00                |                     |                      |               | 11,166.47           | 95,000.00           | -83,833.53         | 11.75%        | 11,166.47           | 95,000.00           | -83,833.53           | 11.75%        |
| <b>3400 · MATERIALS &amp; SUPPLIES</b>       |                     |                     |                      |               |                     |                     |                    |               |                     |                     |                      |               |
| 3401 · Conduit, Meter, Valve & Misc          | 0.00                |                     |                      |               | 5,337.89            | 65,000.00           | -59,662.11         | 8.21%         | 5,337.89            | 65,000.00           | -59,662.11           | 8.21%         |
| 3402 · Buildings & Roads                     | 0.00                |                     |                      |               | 4,567.53            | 8,000.00            | -3,432.47          | 57.09%        | 4,567.53            | 8,000.00            | -3,432.47            | 57.09%        |
| 3403 · Reservoirs                            | 0.00                |                     |                      |               | 1,379.20            | 5,000.00            | -3,620.80          | 27.58%        | 1,379.20            | 5,000.00            | -3,620.80            | 27.58%        |
| <b>Total 3400 · MATERIALS &amp; SUPPLIES</b> | 0.00                |                     |                      |               | 11,284.62           | 78,000.00           | -66,715.38         | 14.47%        | 11,284.62           | 78,000.00           | -66,715.38           | 14.47%        |
| <b>3500 · OTHER EXPENSES</b>                 |                     |                     |                      |               |                     |                     |                    |               |                     |                     |                      |               |
| 3501 · Utilities                             | 0.00                |                     |                      |               | 5,074.16            | 7,000.00            | -1,925.84          | 72.49%        | 5,074.16            | 7,000.00            | -1,925.84            | 72.49%        |
| 3502 · Uniforms                              | 0.00                |                     |                      |               | 3,198.33            | 5,000.00            | -1,801.67          | 63.97%        | 3,198.33            | 5,000.00            | -1,801.67            | 63.97%        |
| 3503 · Communications                        | 0.00                |                     |                      |               | 14,660.56           | 18,000.00           | -3,339.44          | 81.45%        | 14,660.56           | 18,000.00           | -3,339.44            | 81.45%        |
| 3504 · USA & Other Services                  | 0.00                |                     |                      |               | 1,475.90            | 4,000.00            | -2,524.10          | 36.9%         | 1,475.90            | 4,000.00            | -2,524.10            | 36.9%         |
| 3505 · Miscellaneous                         | 0.00                |                     |                      |               | 6,238.67            | 8,000.00            | -1,761.33          | 77.98%        | 6,238.67            | 8,000.00            | -1,761.33            | 77.98%        |
| 3506 · Training                              | 0.00                |                     |                      |               | 120.70              | 3,000.00            | -2,879.30          | 4.02%         | 120.70              | 3,000.00            | -2,879.30            | 4.02%         |
| <b>Total 3500 · OTHER EXPENSES</b>           | 0.00                |                     |                      |               | 30,768.32           | 45,000.00           | -14,231.68         | 68.37%        | 30,768.32           | 45,000.00           | -14,231.68           | 68.37%        |

|   | Fisheries        |            |                |             | Operations       |            |                |             | TOTAL            |            |                |             |
|---|------------------|------------|----------------|-------------|------------------|------------|----------------|-------------|------------------|------------|----------------|-------------|
|   | Jul '17 - Mar 18 | Budget     | \$ Over Budget | % of Budget | Jul '17 - Mar 18 | Budget     | \$ Over Budget | % of Budget | Jul '17 - Mar 18 | Budget     | \$ Over Budget | % of Budget |
| 4100 · LABOR - FISHERIES                    | 508,234.61       | 683,374.00 | -175,139.39    | 74.37%      | 0.00             |            |                |             | 508,234.61       | 683,374.00 | -175,139.39    | 74.37%      |
| 4200 · VEHICLES & EQUIP - FISHERIES         |                  |            |                |             |                  |            |                |             |                  |            |                |             |
| 4270 · Vehicle/Equip Mtce                   | 19,941.63        | 15,000.00  | 4,941.63       | 132.94%     | 0.00             |            |                |             | 19,941.63        | 15,000.00  | 4,941.63       | 132.94%     |
| 4280 · Fixed Capital                        | 34,536.77        | 15,000.00  | 19,536.77      | 230.25%     | 0.00             |            |                |             | 34,536.77        | 15,000.00  | 19,536.77      | 230.25%     |
| 4290 · Miscellaneous                        | 2,910.60         | 2,500.00   | 410.60         | 116.42%     | 0.00             |            |                |             | 2,910.60         | 2,500.00   | 410.60         | 116.42%     |
| Total 4200 · VEHICLES & EQUIP - FISHERIES   | 57,389.00        | 32,500.00  | 24,889.00      | 176.58%     | 0.00             |            |                |             | 57,389.00        | 32,500.00  | 24,889.00      | 176.58%     |
| 4220 · CONTRACT LABOR - FISHERIES           |                  |            |                |             |                  |            |                |             |                  |            |                |             |
| 4221 · Meters & Valves                      | 104.00           | 3,000.00   | -2,896.00      | 3.47%       | 0.00             |            |                |             | 104.00           | 3,000.00   | -2,896.00      | 3.47%       |
| 4222 · Fish Projects Maintenance            | 6,136.48         | 25,000.00  | -18,863.52     | 24.55%      | 0.00             |            |                |             | 6,136.48         | 25,000.00  | -18,863.52     | 24.55%      |
| Total 4220 · CONTRACT LABOR - FISHERIES     | 6,240.48         | 28,000.00  | -21,759.52     | 22.29%      | 0.00             |            |                |             | 6,240.48         | 28,000.00  | -21,759.52     | 22.29%      |
| 4300 · MATERIALS/SUPPLIES - FISHERIES       |                  |            |                |             |                  |            |                |             |                  |            |                |             |
| 4390 · Miscellaneous                        | 1,737.89         | 7,000.00   | -5,262.11      | 24.83%      | 0.00             |            |                |             | 1,737.89         | 7,000.00   | -5,262.11      | 24.83%      |
| Total 4300 · MATERIALS/SUPPLIES - FISHERIES | 1,737.89         | 7,000.00   | -5,262.11      | 24.83%      | 0.00             |            |                |             | 1,737.89         | 7,000.00   | -5,262.11      | 24.83%      |
| 4500 · OTHER EXPENSES - FISHERIES           |                  |            |                |             |                  |            |                |             |                  |            |                |             |
| 4502 · Uniforms                             | 3,471.03         | 2,500.00   | 971.03         | 138.84%     | 0.00             |            |                |             | 3,471.03         | 2,500.00   | 971.03         | 138.84%     |
| Total 4500 · OTHER EXPENSES - FISHERIES     | 3,471.03         | 2,500.00   | 971.03         | 138.84%     | 0.00             |            |                |             | 3,471.03         | 2,500.00   | 971.03         | 138.84%     |
| 4999 · GENERAL & ADMINISTRATIVE             |                  |            |                |             |                  |            |                |             |                  |            |                |             |
| 5000 · Director Fees                        | 0.00             |            |                |             | 5,842.19         | 12,000.00  | -6,157.81      | 48.69%      | 5,842.19         | 12,000.00  | -6,157.81      | 48.69%      |
| 5001 · Director Mileage                     | 0.00             |            |                |             | 450.11           | 1,000.00   | -549.89        | 45.01%      | 450.11           | 1,000.00   | -549.89        | 45.01%      |
| 5100 · Legal                                | 0.00             |            |                |             | 23,094.80        | 75,000.00  | -51,905.20     | 30.79%      | 23,094.80        | 75,000.00  | -51,905.20     | 30.79%      |
| 5101 · Audit                                | 0.00             |            |                |             | 16,732.90        | 21,625.00  | -4,892.10      | 77.38%      | 16,732.90        | 21,625.00  | -4,892.10      | 77.38%      |
| 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             |            |                |             | 27,302.76        | 50,551.00  | -23,248.24     | 54.01%      | 27,302.76        | 50,551.00  | -23,248.24     | 54.01%      |
| 5310 · Postage/Office Exp                   | 0.00             |            |                |             | 3,875.25         | 5,000.00   | -1,124.75      | 77.51%      | 3,875.25         | 5,000.00   | -1,124.75      | 77.51%      |
| 5311 · Office Equip/Leases                  | 0.00             |            |                |             | 5,906.14         | 9,200.00   | -3,293.86      | 64.2%       | 5,906.14         | 9,200.00   | -3,293.86      | 64.2%       |
| 5312 · Misc Admin Expenses                  | 0.00             |            |                |             | 10,640.02        | 8,600.00   | 2,040.02       | 123.72%     | 10,640.02        | 8,600.00   | 2,040.02       | 123.72%     |
| 5313 · Communications                       | 0.00             |            |                |             | 5,972.26         | 8,500.00   | -2,527.74      | 70.26%      | 5,972.26         | 8,500.00   | -2,527.74      | 70.26%      |
| 5314 · Utilities                            | 0.00             |            |                |             | 7,121.11         | 9,737.00   | -2,615.89      | 73.14%      | 7,121.11         | 9,737.00   | -2,615.89      | 73.14%      |
| 5315 · Membership Dues                      | 0.00             |            |                |             | 8,138.10         | 8,500.00   | -361.90        | 95.74%      | 8,138.10         | 8,500.00   | -361.90        | 95.74%      |
| 5316 · Admin Fixed Assets                   | 0.00             |            |                |             | 3,704.49         | 3,000.00   | 704.49         | 123.48%     | 3,704.49         | 3,000.00   | 704.49         | 123.48%     |
| 5318 · Computer Consultant                  | 0.00             |            |                |             | 9,428.39         | 15,000.00  | -5,571.61      | 62.86%      | 9,428.39         | 15,000.00  | -5,571.61      | 62.86%      |
| 5325 · Emp Training/Subscriptions           | 0.00             |            |                |             | 2,185.63         | 2,000.00   | 185.63         | 109.28%     | 2,185.63         | 2,000.00   | 185.63         | 109.28%     |
| 5330 · Admin Travel/Conferences             | 0.00             |            |                |             | 122.34           | 2,000.00   | -1,877.66      | 6.12%       | 122.34           | 2,000.00   | -1,877.66      | 6.12%       |
| 5331 · Public Information                   | 0.00             |            |                |             | 460.67           | 1,000.00   | -539.33        | 46.07%      | 460.67           | 1,000.00   | -539.33        | 46.07%      |
| 5317 · Admin Contract Labor                 | 0.00             |            |                |             | 4,133.89         | 7,500.00   | -3,366.11      | 55.12%      | 4,133.89         | 7,500.00   | -3,366.11      | 55.12%      |
| Total 4999 · GENERAL & ADMINISTRATIVE       | 0.00             |            |                |             | 135,111.05       | 245,213.00 | -110,101.95    | 55.1%       | 135,111.05       | 245,213.00 | -110,101.95    | 55.1%       |
| Total 5299 · ADMIN LABOR                    | 0.00             |            |                |             | 387,015.96       | 560,870.00 | -173,854.04    | 69.0%       | 387,015.96       | 560,870.00 | -173,854.04    | 69.0%       |
| 5400 · GENERAL & ADMIN - FISHERIES          |                  |            |                |             |                  |            |                |             |                  |            |                |             |
| 5407 · Legal - FD                           | 2,847.40         | 20,000.00  | -17,152.60     | 14.24%      | 0.00             |            |                |             | 2,847.40         | 20,000.00  | -17,152.60     | 14.24%      |
| 5410 · Postage / Office Supplies            | 2,213.10         | 4,000.00   | -1,786.90      | 55.33%      | 0.00             |            |                |             | 2,213.10         | 4,000.00   | -1,786.90      | 55.33%      |
| 5411 · Office Equipment / Leases            | 3,180.17         | 5,218.00   | -2,037.83      | 60.95%      | 0.00             |            |                |             | 3,180.17         | 5,218.00   | -2,037.83      | 60.95%      |
| 5412 · Misc. Admin Expense                  | 5,728.29         | 5,610.00   | 118.29         | 102.11%     | 0.00             |            |                |             | 5,728.29         | 5,610.00   | 118.29         | 102.11%     |
| 5413 · Communications                       | 3,941.87         | 4,305.00   | -363.13        | 91.57%      | 0.00             |            |                |             | 3,941.87         | 4,305.00   | -363.13        | 91.57%      |
| 5414 · Utilities                            | 3,834.39         | 5,243.00   | -1,408.61      | 73.13%      | 0.00             |            |                |             | 3,834.39         | 5,243.00   | -1,408.61      | 73.13%      |
| 5415 · Membership Dues                      | 5,260.90         | 5,500.00   | -239.10        | 95.65%      | 0.00             |            |                |             | 5,260.90         | 5,500.00   | -239.10        | 95.65%      |
| 5416 · Admin Fixed Assets                   | 0.00             | 3,000.00   | -3,000.00      | 0.0%        | 0.00             |            |                |             | 0.00             | 3,000.00   | -3,000.00      | 0.0%        |
| 5417 · Admin Contract Labor                 | 2,225.92         | 4,000.00   | -1,774.08      | 55.65%      | 0.00             |            |                |             | 2,225.92         | 4,000.00   | -1,774.08      | 55.65%      |
| 5418 · Computer Consultant                  | 5,076.77         | 5,000.00   | 76.77          | 101.54%     | 0.00             |            |                |             | 5,076.77         | 5,000.00   | 76.77          | 101.54%     |
| 5425 · Employee Education/Subscription      | 2,423.76         | 2,500.00   | -76.24         | 96.95%      | 0.00             |            |                |             | 2,423.76         | 2,500.00   | -76.24         | 96.95%      |

|   | Fisheries           |                     |                      |               | Operations          |                     |                      |               | TOTAL               |                     |                      |               |
|---|---------------------|---------------------|----------------------|---------------|---------------------|---------------------|----------------------|---------------|---------------------|---------------------|----------------------|---------------|
|   | Jul '17 - Mar 18    | Budget              | \$ Over Budget       | % of Budget   | Jul '17 - Mar 18    | Budget              | \$ Over Budget       | % of Budget   | Jul '17 - Mar 18    | Budget              | \$ Over Budget       | % of Budget   |
| 5426 · Director Fees                                | 3,145.80            | 6,500.00            | -3,354.20            | 48.4%         | 0.00                |                     |                      |               | 3,145.80            | 6,500.00            | -3,354.20            | 48.4%         |
| 5427 · Director Mileage                             | 197.26              | 500.00              | -302.74              | 39.45%        | 0.00                |                     |                      |               | 197.26              | 500.00              | -302.74              | 39.45%        |
| 5430 · Travel                                       | 429.66              | 2,500.00            | -2,070.34            | 17.19%        | 0.00                |                     |                      |               | 429.66              | 2,500.00            | -2,070.34            | 17.19%        |
| 5431 · Public Information                           | 247.92              | 1,500.00            | -1,252.08            | 16.53%        | 0.00                |                     |                      |               | 247.92              | 1,500.00            | -1,252.08            | 16.53%        |
| 5441 · Audt   | 8,633.10            | 7,175.00            | 1,458.10             | 120.32%       | 0.00                |                     |                      |               | 8,633.10            | 7,175.00            | 1,458.10             | 120.32%       |
| 5443 · Liab & Property Ins                          | 14,701.49           | 24,745.00           | -10,043.51           | 59.41%        | 0.00                |                     |                      |               | 14,701.49           | 24,745.00           | -10,043.51           | 59.41%        |
| <b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b> | <b>64,087.80</b>    | <b>107,296.00</b>   | <b>-43,208.20</b>    | <b>59.73%</b> | <b>0.00</b>         |                     |                      |               | <b>64,087.80</b>    | <b>107,296.00</b>   | <b>-43,208.20</b>    | <b>59.73%</b> |
| <b>Total 5499 · ADMIN LABOR-FISHERIES</b>           | <b>140,880.71</b>   | <b>221,470.00</b>   | <b>-80,589.29</b>    | <b>63.61%</b> | <b>0.00</b>         |                     |                      |               | <b>140,880.71</b>   | <b>221,470.00</b>   | <b>-80,589.29</b>    | <b>63.61%</b> |
| 5510 · Integrated Reg. Water Mgt Plan               | 0.00                |                     |                      |               | 2,408.83            | 5,000.00            | -2,591.17            | 48.18%        | 2,408.83            | 5,000.00            | -2,591.17            | 48.18%        |
| <b>6000 · SPECIAL PROJECTS</b>                      |                     |                     |                      |               |                     |                     |                      |               |                     |                     |                      |               |
| 6062 · SCADA  | 0.00                |                     |                      |               | 1,103.16            | 20,000.00           | -18,896.84           | 5.52%         | 1,103.16            | 20,000.00           | -18,896.84           | 5.52%         |
| 6090 · COMB Office Building                         | 0.00                |                     |                      |               | 357.71              | 20,000.00           | -19,642.29           | 1.79%         | 357.71              | 20,000.00           | -19,642.29           | 1.79%         |
| 6096 · SCC Structure Rehabilitation                 | 0.00                |                     |                      |               | 69,591.53           | 225,000.00          | -155,408.47          | 30.93%        | 69,591.53           | 225,000.00          | -155,408.47          | 30.93%        |
| 6097 · GIS and Mapping                              | 0.00                |                     |                      |               | 13,118.19           | 10,000.00           | 3,118.19             | 131.18%       | 13,118.19           | 10,000.00           | 3,118.19             | 131.18%       |
| 6105 · ROW Management Program                       | 0.00                |                     |                      |               | 0.00                | 20,000.00           | -20,000.00           | 0.0%          | 0.00                | 20,000.00           | -20,000.00           | 0.0%          |
| 6118 · Repair Lateral 3 Structure                   | 0.00                |                     |                      |               | 13,997.49           | 100,000.00          | -86,002.51           | 14.0%         | 13,997.49           | 100,000.00          | -86,002.51           | 14.0%         |
| 6120 · Emergency Pumping Fac Project                | 0.00                |                     |                      |               | 134,800.00          | 223,000.00          | -88,200.00           | 60.45%        | 134,800.00          | 223,000.00          | -88,200.00           | 60.45%        |
| 6120-2 · EPFP C/O FY 2016                           | 0.00                |                     |                      |               | 0.00                | -223,000.00         | 223,000.00           | 0.0%          | 0.00                | -223,000.00         | 223,000.00           | 0.0%          |
| 6122 · Rehab San Antonio Crk Blow-off               | 0.00                |                     |                      |               | 0.00                | 35,000.00           | -35,000.00           | 0.0%          | 0.00                | 35,000.00           | -35,000.00           | 0.0%          |
| 6130 · NP Slope Stabilization                       | 0.00                |                     |                      |               | 69,030.28           | 103,694.45          | -34,664.17           | 66.57%        | 69,030.28           | 103,694.45          | -34,664.17           | 66.57%        |
| 6130-1 · NP Slope Stabil C/O Funds FY 16            | 0.00                |                     |                      |               | 0.00                | -73,694.45          | 73,694.45            | 0.0%          | 0.00                | -73,694.45          | 73,694.45            | 0.0%          |
| 6132 · Sycamore Canyon Slope Stabiliz               | 0.00                |                     |                      |               | 65,799.42           | 300,000.00          | -234,200.58          | 21.93%        | 65,799.42           | 300,000.00          | -234,200.58          | 21.93%        |
| 6133 · Meter Replacement Project                    | 0.00                |                     |                      |               | 0.00                | 100,000.00          | -100,000.00          | 0.0%          | 0.00                | 100,000.00          | -100,000.00          | 0.0%          |
| 6134 · N.P. IT/Control Bldg Seismic                 | 0.00                |                     |                      |               | 0.00                | 100,000.00          | -100,000.00          | 0.0%          | 0.00                | 100,000.00          | -100,000.00          | 0.0%          |
| 6135 · SCC San Jose Creek Pipe Stabili              | 0.00                |                     |                      |               | 0.00                | 60,000.00           | -60,000.00           | 0.0%          | 0.00                | 60,000.00           | -60,000.00           | 0.0%          |
| <b>Total 6000 · SPECIAL PROJECTS</b>                | <b>0.00</b>         |                     |                      |               | <b>367,797.78</b>   | <b>1,020,000.00</b> | <b>-652,202.22</b>   | <b>36.06%</b> | <b>367,797.78</b>   | <b>1,020,000.00</b> | <b>-652,202.22</b>   | <b>36.06%</b> |
| <b>6200 · FISHERIES ACTIVITIES</b>                  |                     |                     |                      |               |                     |                     |                      |               |                     |                     |                      |               |
| 6201 · FMP Implementation                           | 34,243.86           | 60,000.00           | -25,756.14           | 57.07%        | 0.00                |                     |                      |               | 34,243.86           | 60,000.00           | -25,756.14           | 57.07%        |
| 6202 · GIS and Mapping                              | 11,965.25           | 10,000.00           | 1,965.25             | 119.65%       | 0.00                |                     |                      |               | 11,965.25           | 10,000.00           | 1,965.25             | 119.65%       |
| 6203 · Grants Technical Support                     | 0.00                | 10,000.00           | -10,000.00           | 0.0%          | 0.00                |                     |                      |               | 0.00                | 10,000.00           | -10,000.00           | 0.0%          |
| 6204 · SYR Hydrology Technical Support              | 0.00                | 8,000.00            | -8,000.00            | 0.0%          | 0.00                |                     |                      |               | 0.00                | 8,000.00            | -8,000.00            | 0.0%          |
| 6205 · USGS Stream Gauge Program                    | 58,404.17           | 100,000.00          | -41,595.83           | 58.4%         | 0.00                |                     |                      |               | 58,404.17           | 100,000.00          | -41,595.83           | 58.4%         |
| 6206 · Tri County Fish Team Funding                 | 0.00                | 5,000.00            | -5,000.00            | 0.0%          | 0.00                |                     |                      |               | 0.00                | 5,000.00            | -5,000.00            | 0.0%          |
| 6207 · Oak Tree Restoration Program                 | 12,505.67           | 40,000.00           | -27,494.33           | 31.26%        | 0.00                |                     |                      |               | 12,505.67           | 40,000.00           | -27,494.33           | 31.26%        |
| <b>Total 6200 · FISHERIES ACTIVITIES</b>            | <b>117,118.95</b>   | <b>233,000.00</b>   | <b>-115,881.05</b>   | <b>50.27%</b> | <b>0.00</b>         |                     |                      |               | <b>117,118.95</b>   | <b>233,000.00</b>   | <b>-115,881.05</b>   | <b>50.27%</b> |
| <b>6300 · HABITAT ENHANCEMENT</b>                   |                     |                     |                      |               |                     |                     |                      |               |                     |                     |                      |               |
| 6318 · Quiota Creek Crossing 9                      | 3,969.30            | 30,000.00           | -26,030.70           | 13.23%        | 0.00                |                     |                      |               | 3,969.30            | 30,000.00           | -26,030.70           | 13.23%        |
| 6319 · Mission Creek at Hwy 192                     | 0.00                | 30,000.00           | -30,000.00           | 0.0%          | 0.00                |                     |                      |               | 0.00                | 30,000.00           | -30,000.00           | 0.0%          |
| 6303 · Tributary Projects Support                   | 13,872.00           | 20,000.00           | -6,128.00            | 69.36%        | 0.00                |                     |                      |               | 13,872.00           | 20,000.00           | -6,128.00            | 69.36%        |
| 6315 · Quiota Creek Crossing 8                      | 0.00                | 60,000.00           | -60,000.00           | 0.0%          | 0.00                |                     |                      |               | 0.00                | 60,000.00           | -60,000.00           | 0.0%          |
| 6316 · Quiota Creek Crossing 5                      | 154,821.48          | 960,000.00          | -805,178.52          | 16.13%        | 0.00                |                     |                      |               | 154,821.48          | 960,000.00          | -805,178.52          | 16.13%        |
| 6317 · Salsipuedes Fish Ladder Repair               | 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>172,662.78</b>   | <b>1,110,000.00</b> | <b>-937,337.22</b>   | <b>15.56%</b> | <b>0.00</b>         |                     |                      |               | <b>172,662.78</b>   | <b>1,110,000.00</b> | <b>-937,337.22</b>   | <b>15.56%</b> |
| 7007 · INTEREST EXPENSE-EPFP                        | 0.00                |                     |                      |               | 54,054.56           |                     |                      |               | 54,054.56           | 0.00                | 54,054.56            | 100.0%        |
| <b>Total Expense</b>                                | <b>1,071,823.25</b> | <b>2,425,140.00</b> | <b>-1,353,316.75</b> | <b>44.2%</b>  | <b>1,516,712.06</b> | <b>2,893,190.00</b> | <b>-1,376,477.94</b> | <b>52.42%</b> | <b>2,588,535.31</b> | <b>5,318,330.00</b> | <b>-2,729,794.69</b> | <b>48.67%</b> |
| <b>Net Surplus / (Deficit)</b>                      | <b>46,828.69</b>    | <b>0.00</b>         | <b>46,828.69</b>     | <b>100.0%</b> | <b>993,675.06</b>   | <b>0.00</b>         | <b>993,675.06</b>    | <b>100.0%</b> | <b>1,040,503.75</b> | <b>0.00</b>         | <b>1,040,503.75</b>  | <b>100.0%</b> |

Local Agency Investment Fund  
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[www.treasurer.ca.gov/pmia-laif/laif.asp](http://www.treasurer.ca.gov/pmia-laif/laif.asp)  
April 17, 2018

CACHUMA OPERATION AND MAINTENANCE BOARD

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

PMIA Average Monthly Yields

Tran Type Definitions

March 2018 Statement

Account Summary

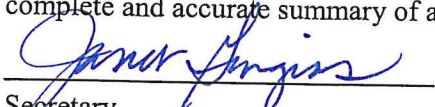
|                   |      |                    |            |
|-------------------|------|--------------------|------------|
| Total Deposit:    | 0.00 | Beginning Balance: | 824,836.61 |
| Total Withdrawal: | 0.00 | Ending Balance:    | 824,836.61 |

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

**FROM:** Janet Gingras, Secretary

**SUBJECT: COMB INVESTMENT POLICY**

The above statement of investment activity for the month of March, 2018, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all LAIF investments of this agency for the period indicated.

  
Secretary

# AMERICAN RIVIERA BANK

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



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

Page 1

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ACCOUNT ANALYSIS CHECKING

Statement Date 03/30/2018  
Last Statement Date 02/28/2018

| 0                    | Statement Period |                       |           |
|----------------------|------------------|-----------------------|-----------|
| Previous Balance     | 10,215.61        | # Of Days-Stmt Period | 30        |
| 0 Deposits/Credits   | 0.00             |                       |           |
| 0 Checks/withdrawals | 0.00             | Average Balance       | 10,215.61 |
| Ending Balance       | 10,215.61        |                       |           |
| Total Srvc Chg Today | 0.00             | YTD Interest          | 0.00      |

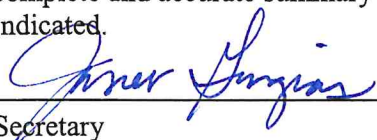
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**MEMO TO:** Board of Directors  
Cachuma Operation & Maintenance Board

**FROM:** Janet Gingras, Secretary

**SUBJECT: COMB INVESTMENT POLICY**

The above statement of investment activity for the month of March, 2018, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.

  
Secretary

# AMERICAN RIVIERA BANK

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



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

Page 1

ACCOUNT ANALYSIS CHECKING

Statement Date 03/30/2018  
Last Statement Date 02/28/2018

|                      |                  |                       |              |
|----------------------|------------------|-----------------------|--------------|
| 0                    | Statement Period |                       |              |
| Previous Balance     | 1,096,694.64     | # Of Days-Stmt Period | 30           |
| 0 Deposits/Credits   | 0.00             | Average Balance       | 1,055,462.71 |
| 1 Checks/Withdrawals | 412,319.32       | YTD Interest          | 0.00         |
| Ending Balance       | 684,375.32       |                       |              |
| Total Srv Chg Today  | 0.00             |                       |              |

Withdrawals

| Date     | Description   | Amount     |
|----------|---|------------|
| 03/28/18 | TO XXXXXXXX1514<br>Warren Act Trust Funds Reimb Dec 17 thru | 412,319.32 |

Daily Balance Summary

| Date       | Amount     | Date | Amount |
|------------|------------|------|--------|
| 03/28/2018 | 684,375.32 |      |        |

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

**FROM:** Janet Gingras, Secretary

**SUBJECT: COMB INVESTMENT POLICY**

The above statement of investment activity for the month of March, 2018, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.

  
Secretary



**Cachuma Operation & Maintenance Board**

**Paid Claims**

As of March 31, 2018

| Date                       | Num        | Name                                  | Memo   | Amount     |
|----------------------------|------------|---------------------------------------|--|------------|
| <b>1050 - General Fund</b> |            |                                       |  |            |
| 03/07/2018                 | 25911      | Accountemps                           | Temporary Staff Labor - W/E: 2/23/18 (Admin Div)                 | -1,094.16  |
| 03/07/2018                 | 25912      | Agri-Turf Supplies, Inc.              | Oak Tree Project Supplies (Fish Div)                             | -50.10     |
| 03/07/2018                 | 25913      | Association of Ca Water Agencies/JPIA | March Health Benefits Coverage                                   | -35,199.53 |
| 03/07/2018                 | 25914      | Ben Meadows Company                   | Telescoping Levining Rod (Fish Div)                              | -206.99    |
| 03/07/2018                 | 25915      | Business Card                         | Check Stock, Job Posting (Ops), Logmein, Seminar, Oak Tree Supls | -2,013.19  |
| 03/07/2018                 | 25916      | CIO Solutions, LP                     | Shoretel Telephone Support Agreement 1/15/18-1/14/19             | -1,405.00  |
| 03/07/2018                 | 25917      | City of Santa-Barbara                 | Trash/Recycle - Feb 2018 (COMB Office)                           | -223.05    |
| 03/07/2018                 | 25918      | Crocker Refrig Heating & Air          | Maintenance/Repair of AC in Board Room and IT Server Room        | -210.65    |
| 03/07/2018                 | 25919      | Culligan of Sylmar                    | Monthly RO system-Feb  | -27.95     |
| 03/07/2018                 | 25920      | ECHO Communications                   | Monthly answering service  | -64.50     |
| 03/07/2018                 | 25921      | Gibbs Truck Centers                   | Vehicle Repair 2013 International Vehicle #133 (Fish Div)        | -4,783.01  |
| 03/07/2018                 | 25922      | Government Finance Officers Assn      | Annual Membership  | -160.00    |
| 03/07/2018                 | 25923      | Harrison Hardware                     | Misc Supplies (Ops and Fish Div)                                 | -274.98    |
| 03/07/2018                 | 25924      | ID Works                              | Staff Uniforms (Ops and Fish Div)                                | -26.61     |
| 03/07/2018                 | 25925      | J&C Services                          | Office Cleaning - Jan  | -420.00    |
| 03/07/2018                 | 25926      | Kristen Sneddon                       | Meeting Fees - February 2018                                     | -309.04    |
| 03/07/2018                 | 25927      | Lauren W. Hanson                      | Meeting Fees - February 2018                                     | -310.90    |
| 03/07/2018                 | 25928      | Musick, Peeler & Garrett LLP          | COMB General Counsel through 1/31/18                             | -3,293.00  |
| 03/07/2018                 | 25929      | Nestle Pure Life Direct               | Feb - 5 gal disposit   | -43.83     |
| 03/07/2018                 | 25930      | Orchard Business/SYNCB                | Misc Supplies (Fish Div)   | -78.27     |
| 03/07/2018                 | 25931      | Paychex, Inc. (HR Essentials)         | HR Essentials - February   | -169.71    |
| 03/07/2018                 | 25932      | Polly Holcombe                        | Meeting Fees - February 2018                                     | -286.84    |
| 03/07/2018                 | 25933      | Powell Garage                         | Vehicle Repair 2006 Chev Vehicle # 122 (Fish Div)                | -459.08    |
| 03/07/2018                 | 25934      | Rauch Communication Consult           | Website Update through 12/31/17                                  | -62.50     |
| 03/07/2018                 | 25935      | SB Home Improvement Center            | Oak Tree Project Supplies (Fish Div)                             | -96.32     |
| 03/07/2018                 | 25936      | Southern California Edison            | Utilities Main Office and Outlying Stations                      | -1,242.23  |
| 03/07/2018                 | 25937      | Tim Robinson                          | Reimbursement for Travel - AFS Cal-Neva Conference               | -116.95    |
| 03/07/2018                 | 25938      | Turenchalk Network Services, Inc.     | Network Services and Support - February                          | -1,449.00  |
| 03/07/2018                 | 25939      | W. Douglas Morgan                     | Meeting Fees - February 2018                                     | -321.80    |
| 03/07/2018                 | 25940      | Wells Fargo Vendor Fin Serv           | Copier lease agreement TASKalfa 6052ci/3051ci                    | -407.30    |
| 03/14/2018                 | 25941      | Accountemps                           | Temporary Staff Labor - W/E: 3/02/18 (Admin Div)                 | -1,299.32  |
| 03/14/2018                 | 25942      | AT&T                                  | Mar charges  | -579.54    |
| 03/14/2018                 | 25943      | Coastal Copy, LP                      | Copier maintenance agreement TASKalfa 6052ci/3051ci              | -473.67    |
| 03/14/2018                 | 25944      | County of SB-Public Works             | Mulch / Oak Tree Project Supplies (Fish Div)                     | -322.80    |
| 03/14/2018                 | 25945      | Cox Communications                    | Business Internet - Mar  | -140.00    |
| 03/14/2018                 | 25946      | HDR Engineering, Inc.                 | Engineering for Tributary Projects                               | -14,102.01 |
| 03/14/2018                 | 25947      | Home Depot Credit Services            | Misc Supplies  | -175.57    |
| 03/14/2018                 | 25948      | Jim Vreeland Ford                     | 2018 F 150 purchase  | -33,805.15 |
| 03/14/2018                 | 25950      | MarBorg Industries                    | Portable Toilets-outlying stations                               | -241.40    |
| 03/14/2018                 | 25951      | Paychex, Inc. (Payroll)               | Payroll Services 2/9/18 and 2/23/18                              | -362.73    |
| 03/14/2018                 | 25952      | Sansum Clinic-Occupational Med        | New Employee Pre-employment Physical 2/26/18                     | -269.00    |
| 03/14/2018                 | 25953      | Southern California Edison            | Glen Anne and Foothill electricity                               | -50.76     |
| 03/14/2018                 | 25954      | Staples Credit Plan                   | Office Supplies  | -521.02    |
| 03/14/2018                 | 25955      | Underground Service Alert             | Ticket Charges - Mar   | -196.45    |
| 03/14/2018                 | 25956      | Verizon Wireless                      | Cellular/Modem's/USB's - February                                | -646.09    |
| 03/25/2018                 | ACH032518A | American Riviera Bank                 | Principal and Interest - EPFP Loan                               | -10,354.21 |
| 03/25/2018                 | ACH032518B | American Riviera Bank                 | Principal and Interest - EPFP Loan                               | -28,123.75 |
| 03/26/2018                 | 25957      | Accountemps                           | Temporary Staff Labor - W/E: 3/09/18 (Admin Div)                 | -1,458.88  |
| 03/26/2018                 | 25958      | ACWA-Joint Powers Ins Authority       | Workers Comp Program 10/1-12/31/17                               | -8,286.94  |
| 03/26/2018                 | 25959      | Assoc of Ca Water /JPIA               | April Health Benefits  | -33,421.15 |
| 03/26/2018                 | 25960      | Big Brand Tire Company                | Vehicle Repair 2003 F150 Vehicle #119 (Fish Div)                 | -1,983.70  |
| 03/26/2018                 | 25961      | Cabela's Inc.                         | Staff Uniforms (Ops and Fish Div)                                | -210.88    |
| 03/26/2018                 | 25962      | Cushman Contracting Corp.             | Emerg Pumping System: Pay Req # 46 and #47                       | -14,000.00 |
| 03/26/2018                 | 25963      | Famcon Pipe & Supply                  | Misc Pipe Supplies (Ops Div)                                     | -1,439.54  |
| 03/26/2018                 | 25964      | Frontier Communications               | Main Office/Outlying stations/SCADA                              | -1,034.38  |
| 03/26/2018                 | 25965      | J&C Services                          | Office Cleaning - Feb  | -420.00    |

Cachuma Operation & Maintenance Board

**Paid Claims**

As of March 31, 2018

| <b>Date</b>               | <b>Num</b> | <b>Name</b>                | <b>Memo</b>                            | <b>Amount</b>      |
|---------------------------|------------|----------------------------|--|--------------------|
| 03/26/2018                | 25966      | Void                       | Void                                   | 0.00               |
| 03/26/2018                | 25967      | SB Home Improvement Center | Misc Supplies (Ops Div)                | -201.95            |
| 03/26/2018                | 25968      | Solinst Canada Ltd.        | 3001 LT Levellogger Edge M5 (Fish Div) | -1,184.64          |
| 03/26/2018                | 25969      | Southern California Edison | Utilities 4120 Foothill Rd - Mar       | -24.61             |
| Total 1050 · General Fund |            |                            |  | <u>-210,136.63</u> |

**APPROVED FOR PAYMENT**

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director

# CACHUMA OPERATION & MAINTENANCE BOARD

## Operations Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

**Wednesday, April 11, 2018**  
**10:00 a.m.**

### AGENDA

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Contractor Bid Award - Air Vacuum Air Release / Blow-Off Structure Rehabilitation Project (*for information and possible recommendation*)
4. South Coast Conduit Appurtenances Emergency Repairs (*for information*)
5. Cachuma Conveyance Operations – FY 2018-19 (*for information and possible recommendation*)
6. Infrastructure Improvement Plan (IIP) Projects (*for information and possible recommendation*)
  - A. Sycamore Canyon Slope Stabilization
  - B. San Antonio Creek Blow-Off Rehabilitation
  - C. Lateral 3 Rehabilitation
7. Cachuma Project Water Reports (*for information*)
8. 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

## Fisheries Committee Meeting

3301 Laurel Canyon Road  
Santa Barbara, CA 93105

**Wednesday, April 18, 2018**

**10:00 AM**

### AGENDA

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Hilton Creek Gravel Augmentation Project (*for information*)
4. Quiota Creek Fish Passage Improvement Projects Update (*for information and possible recommendation*)
  - A. Crossing 5
  - B. Crossing 9
  - C. Crossing 8
5. Memorandum of Understanding (MOU) with Santa Barbara County (*for information*)
6. Annual Monitoring Reports (AMR) / Annual Monitoring Summary (AMS) Updates (*for information*)
7. Adjournment

#### NOTICE TO THE PUBLIC

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

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Cachuma Operation & Maintenance Board (COMB) at 569-1391 at least 48 hours prior to the meeting to enable staff to make reasonable arrangements.

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

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | April 23, 2018 |
| Submitted by: | Edward Lyons   |
| Approved by:  | Janet Gingras  |

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**SUBJECT:**     **Financial Review – 3<sup>rd</sup> Quarter Fiscal Year 2017-18**

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**SUMMARY:**

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

**FISCAL ANALYSIS:**

**Revenues Assessed and Collected**

- COMB assessed \$906.2K and collected \$884K in quarterly O&M Budget Assessments for the period January – March 2018. Year-to-date assessments for Santa Ynez River Water Conservation District, ID No. 1 assessment of \$63.7K are outstanding.
- COMB collected \$412.3k from the Warren Act Trust Fund for Fisheries and Oak Tree Program related expenses incurred for the period Dec 2017 – February 2018.
- COMB assessed \$115.8K in quarterly EPFP Loan Assessments related to loan repayments made on behalf of Goleta Water District and Montecito Water District pertaining to the Emergency Pumping Facility for the period January – March 2018. Payments are due at the end of April.
- COMB collected \$30k of matched funds from the County of Santa Barbara related to the Cachuma Project Log Boom Installation Project. COMB also applied for and was awarded \$35k in related grant funds for this project from the US Bureau of Reclamation. Funds were received in April 2018.
- COMB collected \$3.5k in interest income for funds held with LAIF.

**Expenditures To Date (% of Budget Apportioned thru December – 9 months or 75%)**

**General and Administrative (Combined)**

- General and Administrative expenses include costs for support of all administrative functions of COMB such as: Director fees, legal expenditures, general liability and property insurance, audit fees, utilities, IT and communications, postage and office supplies, training, education and subscriptions and miscellaneous expenses. Costs are generally allocated between Operations and Maintenance (65%) and Fisheries Division (35%).

General and Administrative Expenses of \$201.6K (56.39%) were within the apportioned budget. Notable expenses include the annual payment of the ACWA JPIA General

Liability Insurance of \$64k for the period October 1, 2017 – September 30, 2018 during the first quarter of the fiscal year. The premium amount reflects a 3% increase over the previous year. This amount was subsequently offset by the ACWA/JPIA RPA Fund premium refund that was received in March 2018 (\$26.8k) as a result of a positive experience rating and low claim submittal.

- General and Administrative Labor of \$729.5k (67.5%) was within the apportioned budget. COMB has one administrative position which is currently on leave of absence. This position has been filled by a part-time, temporary staff person. No additional hires are projected at this time.
- **The total combined General and Administrative expenses and labor of \$531.8K (64.0%) thru March are within the apportioned budget.**

### **Operations Division**

- Operation and Maintenance Labor includes salaries, employer taxes, health insurance and retirement benefit costs. Personnel costs of \$484.9K (54.96%) are lower than the apportioned budget due to staff vacancies.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Year to date actual costs of \$32.2K (58.6%) are within the apportioned budget. Unanticipated costs include repairs to Hydraulic System Posi-Track Tractor (\$4k) and fuel costs (\$1.5K) incurred during December to operate emergency generators at the COMB office during an electrical outage, resulting from the Thomas Fire.
- Contract Labor contains funds for outside services and labor that cannot be supported by COMB staff which may include elevator repair, tree trimming and removal services, heavy equipment and operators' labor costs for various small projects including meter calibration and meter repair. Projects and staff assignments are reviewed by the General Manager and Operations Division Manager to control costs in this category. Actual costs of \$11.2K (11.75%) are within the apportioned budget.
- Materials and Supplies covers costs related to the operation and maintenance of the conduit, reservoirs, and outlying buildings and roads. Actual costs of \$11.3K (14.47%) are within the apportioned budget.
- Other Expenses includes utilities, uniforms, hazardous waste disposal, communications (phones at facilities, and cell phones for operations and maintenance), Underground Service Alerts, and employee training and certifications. Actual costs of \$30.8K (68.37%) are within the apportioned budget.
- Special Projects - The Board of Directors received into file a copy of the FY 2017-18 Infrastructure Improvement Plan at their meeting in May, 2017. Board policy requires that all projects are to be approved thru Committee and by the Board prior to commencement. Actual costs thru December were \$367.8k. This amount is attributed to the following projects: North Portal Debris Log Boom Installation (\$71.5k), North Portal Slope Stabilization Project (\$69k), storage of key components of the pumping barge (\$63k), South Coast Conduit Structure Rehabilitation Project (\$69.6k) and Lateral 3A engineering services \$14k.
- **The total Operations Division expenses of \$1.5M (52.4%) thru March are within the apportioned budget.**

## Fisheries Division

- Fisheries Division Labor includes salaries, employer taxes, health insurance and retirement benefit costs for a Senior Resource Scientist, a three member field crew, and four part-time seasonal bio-aide positions. Personnel costs of \$508.2K (74.3%) were within the apportioned budget.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Year to date actual costs of \$57.4K (176.6%) were higher than the apportioned budget. Notable expenses include the replacement of a vehicle (\$33.8k) that was totaled in a vehicle accident during May 2017. COMB received \$14.7k of insurance proceeds to offset the replacement cost. COMB also incurred unexpected repairs to its International 4300 Water Truck (\$4.4k) to repair its rear axle and replace the water pump.
- Contract Labor contains funds for outside services/labor to support equipment calibration on flow meters, and funds for technical assistance corresponding to the operation, maintenance and performance review of completed fish passage projects. Actual costs of \$6.2K (22.3%) are within the apportioned budget.
- Materials and Supplies includes costs for the purchase of items needed for the Fisheries Monitoring Program specifically monitoring for migration, spawning and over-summering such as constructing and repairing fish migration traps and the equipment necessary to conduct snorkel and redds surveys. Actual costs of \$1.7K (24.8%) are within the apportioned budget.
- Other Expenses includes funds to pay for uniforms and gear for the fisheries employees. Actual costs of \$3.4K (138.84%) are higher the apportioned budget. Current year expenditures are due to the purchase of new uniforms and wading boots for staff.
- Fisheries Division Activities includes funding for special activities related to ongoing Cachuma Project Biological Opinion (BO) compliance efforts, the implementation of the Lower Santa Ynez River Fisheries Monitoring Program, GIS mapping, grants technical support, USGS Stream Gauge Program and the Oak Tree Restoration Program. Actual costs of \$117.1K (50.27%) are within the apportioned budget.
- Fisheries Habitat Improvement - The Board of Directors received into file a copy of the FY 2017-18 Habitat Improvement Plan at their meeting in May, 2017. Board policy requires that all projects are to be approved thru Committee and by the Board prior to commencement. Costs of \$172.7K thru March include the following fish passage projects: COMB Quiota Creek Crossing 5 (\$154.8K) and Quiota Creek Crossing 9 (\$4.0k).
- **The total Fisheries Division expenses of \$1.07M (44.2%) thru December are within the apportioned budget.**

## Restricted Funds and Obligations

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

The balance in the restricted account as of March 31<sup>st</sup> (\$684K) is comprised of funds collected (\$620K) in calendar year 2016. These funds were approved by the Cachuma Project Warren Act Trust Funds Advisory Committee at their meeting in May 2017 to be appropriated towards eligible FY 2017-18 fisheries activities. COMB has withdrawn approximately \$512k from this balance and applied against eligible fisheries related expenses for the period of July 2017 through February 2018.

The remaining balance in the Warren Act Trust Fund along funds deposited in calendar year 2017 (\$539k) are currently under review by the committee for use in FY 2018-19.

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

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

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

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

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

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

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

COMB assesses the remaining member agencies at the end of each quarter, for the monthly loan payments made on their behalf during that period. As of December 31, 2017, the total combined principal outstanding for the Goleta Water District and Montecito Water District is approximately \$1.4M.

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



The fifteen percent obligation under the Bradbury SOD contract is \$7,605,739 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2017-18 is \$261,647 and assesses the Member in accordance with each Member Agencies' Cachuma Project entitlement percentages.

The fifteen percent obligation under the Lauro SOD contract is \$1,009,737 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2017-18 is \$44,404.66 and assesses the South Coast Member Agencies (only) in accordance with each Member Agencies' pro-rata Cachuma Project entitlement percentages.

**BOARD RECOMMENDATION:**

Receive and file the 3<sup>rd</sup> Quarter Fiscal Year 2017-18 Financial Review and exhibit.

**LIST OF EXHIBITS:**

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

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

|                                 | Fisheries           |                     |                      |               | Operations          |                     |                      |               | TOTAL               |                     |                      |               |
|---------------------------------|---------------------|---------------------|----------------------|---------------|---------------------|---------------------|----------------------|---------------|---------------------|---------------------|----------------------|---------------|
|                                 | Jul - Mar 18        | Budget              | \$ Over Budget       | % of Budget   | Jul - Mar 18        | Budget              | \$ Over Budget       | % of Budget   | Jul - Mar 18        | Budget              | \$ Over Budget       | % of Budget   |
| <b>Income</b>                   |                     |                     |                      |               |                     |                     |                      |               |                     |                     |                      |               |
| Revenue                         | 1,118,651.94        | 2,425,140.00        | -1,306,488.06        | 46.13%        | 2,510,387.12        | 2,893,190.00        | -382,802.88          | 86.77%        | 3,629,039.06        | 5,318,330.00        | -1,689,290.94        | 68.24%        |
| <b>Total Income</b>             | <b>1,118,651.94</b> | <b>2,425,140.00</b> | <b>-1,306,488.06</b> | <b>46.13%</b> | <b>2,510,387.12</b> | <b>2,893,190.00</b> | <b>-382,802.88</b>   | <b>86.77%</b> | <b>3,629,039.06</b> | <b>5,318,330.00</b> | <b>-1,689,290.94</b> | <b>68.24%</b> |
| <b>Gross Profit</b>             | <b>1,118,651.94</b> | <b>2,425,140.00</b> | <b>-1,306,488.06</b> | <b>46.13%</b> | <b>2,510,387.12</b> | <b>2,893,190.00</b> | <b>-382,802.88</b>   | <b>86.77%</b> | <b>3,629,039.06</b> | <b>5,318,330.00</b> | <b>-1,689,290.94</b> | <b>68.24%</b> |
| <b>Expense</b>                  |                     |                     |                      |               |                     |                     |                      |               |                     |                     |                      |               |
| General and Admin Expenses      | 64,087.80           | 107,296.00          | -43,208.20           | 59.73%        | 137,519.88          | 250,213.00          | -112,693.12          | 54.96%        | 201,607.68          | 357,509.00          | -155,901.32          | 56.39%        |
| General and Admin Labor         | 140,880.71          | 221,470.00          | -80,589.29           | 63.61%        | 387,015.96          | 560,870.00          | -173,854.04          | 69.0%         | 527,896.67          | 782,340.00          | -254,443.33          | 67.48%        |
| O&M Labor                       | 0.00                |                     |                      |               | 484,889.25          | 789,107.00          | -304,217.75          | 61.45%        | 484,889.25          | 789,107.00          | -304,217.75          | 61.45%        |
| O&M Vehicle & Equip             | 0.00                |                     |                      |               | 32,215.22           | 55,000.00           | -22,784.78           | 58.57%        | 32,215.22           | 55,000.00           | -22,784.78           | 58.57%        |
| O&M Contract Labor              | 0.00                |                     |                      |               | 11,166.47           | 95,000.00           | -83,833.53           | 11.75%        | 11,166.47           | 95,000.00           | -83,833.53           | 11.75%        |
| O&M Material and Supplies       | 0.00                |                     |                      |               | 11,284.62           | 78,000.00           | -66,715.38           | 14.47%        | 11,284.62           | 78,000.00           | -66,715.38           | 14.47%        |
| O&M Other Expenses              | 0.00                |                     |                      |               | 30,768.32           | 45,000.00           | -14,231.68           | 68.37%        | 30,768.32           | 45,000.00           | -14,231.68           | 68.37%        |
| O&M Special Projects            | 0.00                |                     |                      |               | 367,797.78          | 1,020,000.00        | -652,202.22          | 36.06%        | 367,797.78          | 1,020,000.00        | -652,202.22          | 36.06%        |
| Fisheries Labor                 | 508,234.61          | 683,374.00          | -175,139.39          | 74.37%        | 0.00                |                     |                      |               | 508,234.61          | 683,374.00          | -175,139.39          | 74.37%        |
| Fisheries Vehicle & Equip       | 57,389.00           | 32,500.00           | 24,889.00            | 176.58%       | 0.00                |                     |                      |               | 57,389.00           | 32,500.00           | 24,889.00            | 176.58%       |
| Fisheries Contract Labor        | 6,240.48            | 28,000.00           | -21,759.52           | 22.29%        | 0.00                |                     |                      |               | 6,240.48            | 28,000.00           | -21,759.52           | 22.29%        |
| Fisheries Material and Supplies | 1,737.89            | 7,000.00            | -5,262.11            | 24.83%        | 0.00                |                     |                      |               | 1,737.89            | 7,000.00            | -5,262.11            | 24.83%        |
| Fisheries Other Expenses        | 3,471.03            | 2,500.00            | 971.03               | 138.84%       | 0.00                |                     |                      |               | 3,471.03            | 2,500.00            | 971.03               | 138.84%       |
| Fisheries Activities            | 117,118.95          | 233,000.00          | -115,881.05          | 50.27%        | 0.00                |                     |                      |               | 117,118.95          | 233,000.00          | -115,881.05          | 50.27%        |
| Fisheries Habitat Enhancement   | 172,662.78          | 1,110,000.00        | -937,337.22          | 15.56%        | 0.00                |                     |                      |               | 172,662.78          | 1,110,000.00        | -937,337.22          | 15.56%        |
| Other Interest Expense - EPFP   | 0.00                |                     |                      |               | 54,054.56           |                     |                      |               | 54,054.56           | 0.00                | 54,054.56            | 100.0%        |
| <b>Total Expense</b>            | <b>1,071,823.25</b> | <b>2,425,140.00</b> | <b>-1,353,316.75</b> | <b>44.2%</b>  | <b>1,516,712.06</b> | <b>2,893,190.00</b> | <b>-1,376,477.94</b> | <b>52.42%</b> | <b>2,588,535.31</b> | <b>5,318,330.00</b> | <b>-2,729,794.69</b> | <b>48.67%</b> |
| <b>Net Income</b>               | <b>46,828.69</b>    | <b>0.00</b>         | <b>46,828.69</b>     | <b>100.0%</b> | <b>993,675.06</b>   | <b>0.00</b>         | <b>993,675.06</b>    | <b>100.0%</b> | <b>1,040,503.75</b> | <b>0.00</b>         | <b>1,040,503.75</b>  | <b>100.0%</b> |

(\*) Percentage of annual budget apportioned through March 2018 = 9 months or 75%

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | April 23, 2018 |
| Submitted by: | Janet Gingras  |

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**SUBJECT:** Resolution No. 659 – Memorandum of Understanding (MOU) – Participation in Statewide and Countywide Integrated Regional Water Management (IRWM) Program in Santa Barbara County

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**SUMMARY:**

Beginning in September 2006, the County Water Agency has worked with a County-wide group of approximately 29 cooperating partners including cities, special districts, water companies, joint powers authorities, and Non-Governmental Organizations (NGOs) to develop the first Integrated Regional Water Management Plan (completed in May 2007). The plan was updated in 2013 and another plan update is expected this year in response to DWR's 2016 IRWM Guidelines.

The Water Agency acts as the single eligible grant recipient responsible for administration of the IRWM Grants. In accordance with the Memorandum of Understanding (MOU) and sub-grant agreements between the Water Agency and project proponents, the Water Agency functions as a pass through agency between the State and proponents. The Water Agency is responsible for organizing and forwarding the required project reporting information to the State and to review and submit claims to the State from each project proponent. Project proponents are then reimbursed once funding is received from the State.

Pursuant to the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Water Code Section 79560 et seq.), on behalf of the 29 cooperating partners within the Santa Barbara Area IRWM Region who assisted in the preparation of the IRWM Plan, the Water Agency has applied for and been granted approximately \$32 million in funding for 24 water related projects within the County. These grants included approximately \$27 million for 15 regional water projects through Proposition 50, a \$550,000 Proposition 84 Planning Grant used for the 2013 update of the IRWM Plan, \$3,000,000 for 7 regional water projects through Proposition 84, Round 1, and \$2,000,000 through the Proposition 84 Drought Round.

The attached MOU was originally developed by the County of Santa Barbara and is in need of updating by all cooperating partners participating in the Integrated Regional Water Management Program. The MOU has been reviewed by General Counsel.

**FISCAL IMPACTS:**

Executing an updated MOU will have no additional financial impact.

**LEGAL CONCURRENCE:**

Legal Counsel has reviewed the attached resolution and MOU as presented to the Board.

**RECOMMENDATION:**

The Board of Directors adopt Resolution No. 659 and authorize the President of the Board to execute the Memorandum of Understanding for continued participation in the IRWM Program for Santa Barbara County.

**LIST OF EXHIBITS:**

- 1) Resolution No. 659
- 2) Memorandum of Understanding – Integrated Regional Water Management Program in Santa Barbara County

**RESOLUTION NO. 659**

**A RESOLUTION OF THE GOVERNING BOARD OF  
CACHUMA OPERATION AND MAINTENANCE BOARD TO AUTHORIZE  
EXECUTION OF AN UPDATED MEMORANDUM OF UNDERSTANDING FOR  
PARTICIPATION IN THE STATEWIDE AND COUNTYWIDE  
INTEGRATED REGIONAL WATER MANAGEMENT PROGRAM  
IN SANTA BARBARA COUNTY**

**WHEREAS**, on November 4, 2014, California voters approved Proposition 1, the Water Quality, Supply, and Infrastructure Improvement Act of 2014; and

**WHEREAS**, the Proposition 1 Integrated Regional Water Management (“IRWM”) Grant Program, administered by Department of Water Resources (“DWR”), provides funding for projects that:

- Help water infrastructure systems adapt to climate change,
- Provide regional water self-reliance and water supply reliability, and
- Provide incentives for collaboration to manage water resources and set regional priorities for water infrastructure.

**WHEREAS**, Proposition 1 authorized the statewide appropriation of \$510 million in IRWM funding for Implementation, Planning, and Disadvantaged Community Involvement efforts; and

**WHEREAS**, six (6) regions within the Central Coast Funding Area (“CCFA”) have been allocated a total of \$43 million over the expected appropriation rounds (FY 2017/18 and FY 2019/20) including Santa Barbara County; and

**WHEREAS**, the Santa Barbara IRWM Region expects to receive approximately \$6.3 million in Proposition 1 Project Implementation Round funding in FY 2018/19 or FY 2019/20; and

**WHEREAS**, beginning in September 2006, the County Water Agency has worked with a county-wide group of approximately 29 cities, special districts, water companies, joint powers authorities, and non-governmental organizations (“NGOs”) to develop the first IRWM Plan (completed in May 2007). This IRWM Plan was updated in 2013, with another plan update expected this year in response to DWR’s 2016 IRWM Guidelines; and

**WHEREAS**, the Cachuma Operation and Maintenance Board (“COMB”) has participated as a Cooperating Partner, along with other public agencies in Santa Barbara County, through a comprehensive stakeholder process under a Memorandum of Understanding (the “MOU”) to Develop an Integrated Water Management Plan; and

**WHEREAS**, the MOU requires updating to reflect changes to the cooperating partners and to incorporate DWR's current funding sources; and

**WHEREAS**, legal counsel has reviewed the provisions of the MOU and finds them acceptable for COMB Governing Board approval; and

**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 authorizes the President of the Board to execute the MOU for continued participation in the IRWM Program for Santa Barbara County.
3. The Governing Board further authorizes COMB's officers and staff, including the General Manager, to continue to do all things necessary and appropriate, including, but not limited to, execution and delivery of documents and any other actions necessary to implement participation in the IRWM Program for Santa Barbara County.
4. This Resolution shall take effect immediately.

**PASSED, APPROVED AND ADOPTED** by the Governing Board of the Cachuma Operation and Maintenance Board, this 23<sup>rd</sup> day of April 2018, by the following roll call vote:

**AYES:**

**NAYES:**

**ABSENT/ABSTAIN:**

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

**ATTEST:**

\_\_\_\_\_  
Secretary to the Board

Memorandum of Understanding (MOU)  
To participate in the Statewide and Countywide  
Integrated Regional Water Management (IRWM) Program  
In Santa Barbara County

This Memorandum of Understanding (MOU) is entered into by and between local government agencies, special districts, and non-governmental organizations (NGOs), organizations qualified under 501 (c) (3), 501 (c) (4) or 501 (c) (5) as defined by the Internal Revenue Code) within Santa Barbara County, as listed in Appendix A, and hereinafter referred to as “Cooperating Partners.”

### 1. Purpose of this MOU

Under this MOU, the Cooperating Partners commit to participate in, and make a financial and/or service oriented contribution toward, the ongoing participation in the process established for the purposes of ongoing program development and Integrated Regional Water Management (IRWM) Plan updates pursuant to the Countywide IRWM Program.

The Countywide IRWM Program, administered by the Department of Water Resources (DWR), requires an adopted IRWM Plan that meets the statewide guidance requirements and legislative requirements and provides funding for projects that support goals, which include, but are not limited to, the following:

- Help water infrastructure systems adapt to Climate Change;
- Assist communities of various socio-economic levels (Disadvantaged Communities (DAC), Severely Disadvantaged Communities (SDAC), Economically Distressed Areas (EDA));
- Improve self-reliance/reduce reliance on the Sacramento San Joaquin Delta;
- Provide incentives for collaboration to:
  - Better manage water resources;
  - Set regional priorities for water infrastructure.

### 2. Background

Through voter-approved bond measures, the DWR provides funding for a range of water related plans and projects. Santa Barbara Countywide interests successfully prepare and update IRWM Plans. The Santa Barbara Region is with the Central Coast Funding Area and works in collaboration with this funding region through a Memorandum of Agreement (MOA) for the equitable allocation of IRWM Funding as well as to address the water management needs of the Central Coast Hydrologic Area.

### 3. Principles

Recognizing the importance of a comprehensive IRWM Program, and consistent with previous MOUs for the IRWM Plan and Program, the Cooperating Partners endorse the following *Principles* for integrated regional water management planning.

- 3.1 Be consistent with the State of California’s (State’s) standards for IRWM Plans, as specified in Division 43 of the Public Resources Code and related guidelines, and meet or exceed the expected scoring criteria used by the State in its IRWM Plan approval process.
- 3.2 Establish a process for on-going decision-making among cooperating partners, with inclusive and participatory public involvement to ensure meaningful input.



- 3.3 Share the costs of IRWM planning, analysis, coordination, and product development through both monetary contributions and staff time/in-kind services. NGOs, as specified herein, meeting certain time commitment requests, will be exempted from the monetary contributions afforded all other members of the Cooperating Partners.
- 3.4 Adopt a regional approach which coordinates water planning across jurisdictional boundaries in Santa Barbara County, sets priorities on a regional basis, and considers issues common to regionally shared watersheds.
- 3.5 Adopt an integrated approach to address the complex inter-relationships across strategies for: water supply, demand management, water quality, source water protection, drought management, flood control, and other water management issues as well as sensitivity to water provision and resources in the context of global climate change.
- 3.6 Consider the State's "program preferences" (as specified in the California Water Code and implementing legislation) as well as "Statewide priorities" (as specified in the IRWM Guidelines) during the IRWM planning process.
- 3.7 Incorporate an appropriate level of scientific watershed assessment information.
- 3.8 Modify the IRWM Plan to continue as an informational "roadmap" toward meeting objectives, but not as a regulatory or enforceable mandate.
- 3.9 Recognize the need for a long-term perspective, which includes monitoring of project and plan implementation.
- 3.10 Provide for adaptive management for future revisions to the IRWM Plan.
- 3.11 Provide for coordination with other IRWM planning efforts in the Central Coast Region.
- 3.12 Provide an inclusive process which seeks involvement from, and opportunities to collaborate with, a wide range of interests including the general public, agriculture, environmental groups, watershed groups, wetlands groups, academic institutions, adjacent region representatives, and non-governmental organizations (NGOs).

#### 4. Scope of an IRWM Plan

The Cooperating Partners understand and accept a final IRWM Plan must consider a range of water management strategies to meet the IRWM Plan's objectives. These strategies must cover certain State-specified categories and may include other categories. Consistent with the State's expected IRWM guidelines, the IRWM Plan must consider strategies that:

- 4.1 Reduce Water Demand
- 4.2 Improve Operational Efficiency & Transfers
- 4.3 Increase Water Supply
- 4.4 Improve Flood Management
- 4.5 Improve Water Quality
- 4.6 Practice Resource Stewardship
- 4.7 Address Climate Change (Reduce and/or minimize any adverse impact to the climate)

As part of its development, the IRWM Plan should consider, but not be limited to, the

following strategy elements:

- 4.8 Water supply reliability
- 4.9 Storm water capture and management
- 4.10 Groundwater management
- 4.11 Water recycling
- 4.12 Water conservation
- 4.13 Flood management
- 4.14 Water quality protection and improvement
- 4.15 Ecosystem restoration
- 4.16 Environmental and habitat protection and improvement
- 4.17 Wetlands enhancement and creation
- 4.18 Recreation and public access
- 4.19 Conjunctive use
- 4.20 Surface storage
- 4.21 Non-point source pollution control
- 4.22 Low impact development
- 4.23 Water and wastewater treatment
- 4.24 Watershed planning
- 4.25 Desalination
- 4.26 Imported water and water transfers
- 4.27 Land use planning

## 5. Roles and Responsibilities

In order to develop an effective IRWM Plan, the Cooperating Partners agree to continue the ongoing planning effort initiated formally in 2006, and reaffirmed and recommitted to in 2010 and 2012. The Santa Barbara County Water Agency (Agency) shall again act as the single eligible contracting entity. The Agency may engage a consultant to serve as Project Manager for IRWM Plan development, including data collection, analysis, coordinating stakeholder and public involvement, and overall coordination of plan and grant application preparation. Prior to hiring the consultant, the Agency will obtain advance concurrence of a majority of the Cooperating Partners as to the consultant qualifications and terms of contract.

The IRWM planning and implementation process will include the Project Manager, Cooperating Partners and Stakeholders. Each will be responsible for, and participate in the IRWM Program and any application processes as follows:

### 5.1 Project Manager

The Agency shall act as or engage a Project Manager to provide overall coordination of the IRWM Program and Plan efforts. The Project Manager shall prepare agendas and chair the Cooperating Partners meetings. In addition, the Project Manager shall implement a public participation process that shall include regular workshops for stakeholders and other interested parties as well as establishing and maintaining a website pertaining to the various funding Propositions that is accessible to the Cooperating Partners and the public. The project manager shall be responsible for the monitoring of

State Propositions involving IRWM and informing the Cooperating Partners regarding developments.

The Project Manager will participate in the interagency process involving DWR and/or Central Coast interests relating to the IRWM Program as appropriate. This participation may include review and comment on draft guidelines for PSPs, Guidelines program changes, attendance at DWR workshops and meetings and meetings with other Central Coast Region IRWM planning areas. The Project Manager will keep the Cooperating Partners apprised of relevant issues and developments.

## 5.2 Cooperating Partners

The Cooperating Partners shall consist of those local government agencies, special districts, and non-governmental organizations (NGOs) within the Santa Barbara County IRWM Region, listed in Appendix A. Appendix A may be revised from time to time to reflect current membership. Cooperating partners' meetings are open to the public. A forum for public comment will be provided at each Cooperating Partners meeting. Decisions by the Cooperating Partners will be based on consensus whenever possible, or, at a minimum, by a vote of a simple majority of all members participating in a meeting, with each entity that is signatory to this MOU having one vote. Cooperating Partners shall participate in regular meetings and take part in decisions pertaining to the IRWM planning process, project finances, consultant selection, revision of the IRWM Plan, and planning grant proposals.

## 5.3 Stakeholders

Stakeholders shall be defined as all interested parties that are not participating in the process as Cooperating Partners. Stakeholders may fall into the following categories as defined in IRWM legislation: (1) Wholesale and retail water purveyors, including a local agency, mutual water company, or a water corporation as defined in Section 241 of the Public Utilities Code; (2) wastewater agencies; (3) flood control agencies; (4) municipal and county governments and special districts; (5) electrical corporations, as defined in Section 218 of the Public Utilities Code; (6) Native American tribes that have lands within the region; (7) self-supplied water users, including agricultural, industrial, residential, park districts, school districts, colleges and universities, and others; (8) environmental stewardship organizations, including watershed groups, fishing groups, land conservancies, and environmental groups; (9) community organizations, including landowner organizations, taxpayer groups, and recreational interests; (10) industry organizations representing agriculture, developers, and other industries appropriate to the region; (11) State, federal, and regional agencies or universities, with specific responsibilities or knowledge within the region; (12) Disadvantaged Community members and representatives, including environmental justice organizations, neighborhood councils, and social justice organizations; (13) any other interested groups appropriate to the region.

Stakeholder involvement will be actively solicited through web-sites, media noticing, personal contact, and the posting of notices. Solicitation of Stakeholders shall be among the responsibilities of Cooperating Partners members.

## 6. Financial Considerations

Each of the Cooperating Partners, respectively except for NGOs that qualify for an exemption from monetary participation, agree to in-kind time and materials commitments, and shall be solely responsible for costs for staff time devoted to the revision of an IRWM Plan and potentially for making application for grant funding. In addition, there will be extramural costs for hiring a Project Manager and/or consultants for at least one year, with duties for coordination, analysis, outreach, plan revision and updates pursuant to DWR guidelines, and grant applications as outlined in the “Roles and Responsibilities” section of this MOU. There will also be extramural costs for administrative services including those conducted by the Santa Barbara County and Water Agency staff including accounting services, web services, project oversight, and legal services, as necessary. Extramural costs, after deduction of funds remaining in the IRWM account and the County’s **50%** cost share.

The Cooperating Partners agree to generally allocate costs by approximate service area population and services. The Cooperating Partners agree to actively encourage participation by all public agencies with a direct or indirect interest in water resources.

### 6.1 Non-Governmental Organizations

It is recognized some organizations that wish to participate in the as Cooperating Partners may not have the means by which to make a financial contribution. In lieu of a financial contribution, these organizations may make an “in kind” contribution consisting of the commitment of time and labor in support of the IRWM process. Pursuant to language codified in DWR’s IRWM Program Guidelines, Integrated Regional Water Management, Nonprofit Organizations are defined as "any nonprofit corporation qualified to do business in California, and qualified under Section 501 (c) 3, 501 (c) (4) or 501 (c) (5) of the Internal Revenue Code." The option of “in-kind” service in lieu of a financial contribution will extend only to those meeting this definition.

Examples of “In-kind” contributions include but are not limited to:

- 6.1.1 Attendance at and participation in Cooperating Partners meetings.
- 6.1.2 Organization and/or conducting of informational, workshops and meetings.
- 6.1.3 Production and/or distribution of written materials necessary to conduct business relevant to the IRWM process.
- 6.1.4 Solicitation of involvement by Stakeholders.
- 6.1.5 Review of, and comment on, documents produced as part of the IRWM process.

## 6.2 Financial Management

- 6.2.1 The Agency has established an IRWM Administration account for handling the monetary contributions from those Cooperating Partners responsible for making a financial contribution (Financially Responsible Cooperating Partners). Each Financially Responsible Cooperating Partner shall contribute funds to this IRWM account. Subject to appropriation by the Board of Supervisors, the Agency will contribute **50%** of the cost for hiring consultants for IRWM Plan preparation and grant application which may include, but is not limited to, project selection, project management, and administrative support. The Agency will also contribute **50%** of the cost of its staff time for project management and administration for general IRWM Plan coordination and grant application. The Cooperating Partners shall reimburse the Agency for the remaining **50%** of all of the costs as described above.
- 6.2.2 Financially Responsible Cooperating Partners shall pay their respective contributions to the Agency.
- 6.2.3. Each year the Agency will provide an accounting of the IRWM fund. If funds received are in excess of the cost of actual plan coordination and preparation services, then the Agency will carry forward the balance for use in the next year's IRWM activities. If the IRWM process is completed or terminated, then the Agency will refund monies to Cooperating Partners on a pro-rated basis according to each partner's contribution.
- 6.2.4. If the estimated costs of coordination and plan preparation exceed the funds available to the Agency under this MOU, then the Agency may ask all Cooperating Partners to provide supplemental funds. If individual Partners refuse to provide the supplemental funds, then the shortfall will be spread over the remaining partners on a voluntary basis. If such shortfalls are not made up, then all planning efforts and obligations shall automatically terminate. The planning effort may also be terminated with the concurrence of a majority of the Cooperating Partners.

## 7. Termination of Participation

Any signatory to the MOU may terminate its participation in this MOU after 30- days' written notification to all other signatories. Any entity terminating participation that later wishes to participate in this MOU shall first make payment of any funding due from such party at the time of its termination, and also pay its share of any expenses for which it otherwise would have been obligated absent such termination, as determined by the Cooperating Partners.

## 8. Addition of Parties

Entities may join the Proposition 1/IRWM Cooperating Partners by submitting a written request to the Cooperating Partners and receiving their approval following a majority vote of approval. Entities joining the Cooperating Partners will be subject to all of the

provisions of, and be required to make a financial or in-kind contribution in accordance with this MOU. Each paying participant's financial obligation will be reduced proportionally with the addition of funds from any joining entity and applied as a credit to the existing participant's account.

9. Defend and Hold Harmless

Tort Liability. Government Code Section 895.2 imposes certain tort liability jointly upon public agencies solely by reason of such public agencies being parties to an agreement as defined in Government Code Section 895. Therefore, the Parties hereto, as between themselves, pursuant to the authorization contained in Government Code Sections 895.4 and 895.6, each assumes the full liability imposed upon it or any of its officers, agents, representatives or employees by law for injury caused by a negligent or wrongful act or omission occurring in the performance of this MOU, to the same extent such liability would be imposed in the absence of Government Code Section 895.2. To achieve this purpose, each Party indemnifies and holds harmless each other Party for any loss, cost, or expense, including reasonable attorneys' fees that may be imposed upon or incurred by such other Party solely by virtue of Government Code Section 895.2.

10. Term of this MOU

The provisions of this MOU will end when Cooperating Partners sign a new MOU that specifically covers ongoing coordination of the IRWM Program process.

11. Counterparts

This MOU may be executed in any number of counterparts, each of which shall for all purposes be deemed to be an original and all of which shall together constitute but one and the same instrument.

12. Notices

All notices or other official correspondence relating to MOU matters between the Cooperating Partners shall be addressed to:

Fray A. Crease, Manager  
Santa Barbara County Water Agency  
130 E. Victoria Street, Suite 200  
Santa Barbara, CA 93101

13. Severability

If any section, paragraph, sentence, clause or provision of this MOU shall, for any reason, be held to be invalid or unenforceable, then the invalidity or unenforceability of such section, paragraph, sentence, clause or provision shall not affect any of the remaining provisions of this MOU.

14. Applicable Law

This MOU shall be governed by and construed in accordance with the laws of the State of California.

15. Amendments

This MOU may only be amended in a writing approved and signed by all Parties.

In witness whereof, the Cooperating Partners hereto have executed this MOU effective at the time a majority of the parties listed in Appendix A have approved and executed this MOU.

SANTA BARBARA COUNTY WATER AGENCY  
SCOTT D. MCGOLPIN  
PUBLIC WORKS DIRECTOR  
BY: \_\_\_\_\_

DATE: \_\_\_\_\_

APPROVED AS TO FORM:  
MICHAEL C. GHIZZONI  
COUNTY COUNSEL

BY: \_\_\_\_\_  
Deputy

APPROVED AS TO INSURANCE:  
RAY ARMATORIO, ARM, AIC  
RISK PROGRAM ADMINISTRATOR

BY: \_\_\_\_\_  
Risk Management

APPROVE AS TO ACCOUNTING:  
THEODORE A. FALLATI, CPA  
AUDITOR-CONTROLLER

BY: \_\_\_\_\_  
Deputy

SIGNATURE OF COOPERATING PARTNER

BY: \_\_\_\_\_

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

AGENCY/ORGANIZATION: \_\_\_\_\_

DATE: \_\_\_\_\_



## **Appendix A: List of Cooperating Partners**

*The list below is of potential Cooperating Partners. A final list will be prepared based on the actual signatories to the MOU.*

### **County Agencies:**

- Flood Control and Water Conservation District - Santa Barbara County
- Water Agency – Santa Barbara County
- Laguna County Sanitation District – Santa Barbara County

### **Cities:**

- City of Buellton
- City of Carpinteria
- City of Goleta
- City of Guadalupe
- City of Lompoc
- City Santa Barbara
- City of Santa Maria
- City of Solvang

### **Water Districts:**

- Carpinteria Valley Water District
- Goleta Water District
- Montecito Water District
- Santa Ynez River Water Conservation District
- Santa Ynez River Water Conservation District, ID #1

### **Non Governmental Organizations:**

- Heal the Ocean

### **Sanitary Districts:**

- Carpinteria Sanitary District
- Goleta Sanitary District
- Goleta West Sanitary District

### **Community Services Districts:**

- Cuyama Community Services District
- Santa Ynez Community Services District
- Vandenberg Village Community Services District

### **Joint Powers Agencies:**

- Cachuma Operations and Maintenance Board (COMB)
- Central Coast Water Authority (CCWA)

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | April 23, 2018 |
| Submitted by: | Joel Degner    |
| Approved by:  | Janet Gingras  |

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**SUBJECT:** Resolution No. 660 – Approving Issuance of a Notice of Award and Authorizing Contract Execution for Construction of the Air Vacuum Air Release / Blow-Off Structure Rehabilitation Project

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**SUMMARY:**

The rehabilitation upgrades to the Air Vacuum Air Release (AVAR) and Blow-Off Valve structures are outlined in the COMB Five-Year Infrastructure Improvement Plan and are essential for continued reliable delivery of water through the South Coast Conduit (SCC). Without implementation of these projects, unscheduled emergency repairs would eventually be required, interrupting water deliveries to large areas for long-periods of time. This project combines three separate infrastructure improvement projects identified in the Fiscal Year 2017-2018 Infrastructure Improvement Plan under one bid and potential contract.

- 1) South Coast Conduit Riser Pipe Replacement Air Vacuum Air Release Valve Structures (2014-C-62)
- 2) South Coast Conduit Air Vacuum Air Release (AVAR) Valve Replacement / Relocation (2012-1-26)
- 3) South Coast Conduit Blow-off Riser Pipe Replacement (2013-1-42)

These projects are considered distinctively separate projects, although combined together in the bid solicitation for purposes of coordinated shutdown efforts. Rehabilitation of the AVAR valve components and replacement of the blow-off riser pipes are Bureau of Reclamation Category 1 recommendations.

**BACKGROUND:**

The SCC is a concrete-lined, concrete-encased steel pipeline extending twenty-six miles from the Goleta reach south to Carpinteria. The pipeline ranges in diameter from 27" to 48". The conduit is 30" in diameter from Cater Treatment Plant to Barker Pass.

The SCC contains three different types of appurtenant structures: blow-offs, air vents, and laterals (or turnouts). These structures are located within vaults along the length of the SCC. Over time, the metal components of these structures have become aged and in need of rehabilitation. Due to the condition of the blow-off risers, the riser pipes on many of the blow-offs need to be abandoned and replaced with manhole covers containing blow-off outlets and new components. Existing air vents connect to the conduit through manhole covers and can be replaced with new manhole covers, which is a less complicated repair than the blow-off riser repair.

The design for the rehabilitation work includes creating a double valve system for the air vents and blow-offs, with one valve located inside the vault and one valve located outside of the vault. The installation of two valves allows minimal water to be released when exercising valves. In addition, the valve located outside of the vault allows a single operator to open and close the air vent or blow-off without needing to meet the requirements for confined space entry into the vaults in the event of an emergency.

## **PROJECT DESCRIPTION**

HDR Engineering, Inc. was selected as the engineering firm to provide a detailed assessment of site conditions, equipment conditions, and access constraints. Alternative strategies for implementing the repairs were investigated and a recommended approach was determined. HDR Engineering then prepared the plans and specifications for bidding.

The repair and upgrade of the blow-offs and AVAR facilities have been divided into 6 different schedules by location and need for a shutdown. The six schedules are summarized below in Table 1. The project bid solicited on December 8, 2017 included schedule A, B, and C repairs only. Construction is planned for the winter of 2019-20 for Schedule D and E in Montecito. More analysis is needed to allow for shutdown of the system to implement Schedule F in the Carpinteria reach.

The current bid proposal under consideration would cover the rehabilitation of 11 blow-offs and 12 air vents. Schedule A involves repairs from Cater Treatment Plant to Sheffield Control Station and Schedule B involves repairs from Sheffield Control Station to Barker Pass. Schedule A and Schedule B require a 3-day shutdown. Schedule C repairs do not require a shutdown and could occur at any time.

**Table 1. Repair Schedule**

| <b>Schedule</b> | <b>Location</b>                             | <b>Shutdown Required</b> | <b>Blow offs</b> | <b>Air Vents</b> |
|-----------------|---|--------------------------|------------------|------------------|
| A               | Cater WTP to Sheffield Control Station      | 3-day                    | 4                | 0                |
| B               | Sheffield Control Station to Barker Pass    | 3-day                    | 7                | 3                |
| C               | Cater WTP to Carpinteria Reservoir          | No shutdown required     | 0                | 9                |
| D               | Barker Pass to Valley Club Golf Course      | Line valve needed        | 4                | 1                |
| E               | Valley Club Golf Course to Ortega Reservoir | Line valve needed        | 1                | 2                |
| F               | Ortega Reservoir to Carpinteria Reservoir   | Study needed             | 9                | 12               |

*Note: Schedules shaded in gray are not part of current bid proposal.*

## **PROJECT SCHEDULE:**

The plans and specifications for this project were solicited for bids on December 8, 2017. The pre-bid meeting was delayed due to the Thomas Fire. The pre-bid meeting took place on January 4, 2018. Five construction firms attended the site visit including Blois Construction Inc., Tierra Contracting, Specialty Construction, Lash Construction, and Cushman Contracting Corporation. The bid opening was subsequently delayed until February 16, 2018 due to the Montecito debris flows event. Originally, the rehabilitation work was planned for February and March 2018. Due to the unexpected delays, the shutdowns and repair for Schedule A and Schedule B work would occur in the winter of 2018-19 and timed with low winter water demands. The Schedule C work could occur at any time during the contract.

## **BID RESULTS**

The project was segregated into ten items for bid purposes. Two contractors bid on the work; Cushman Contracting Corporation and Blois Construction, Inc. Upon thorough review, both bidders were deemed responsible and responsive. The Blois Construction, Inc. bid was submitted at \$693,404 and Cushman Contracting Corporation's bid was submitted at \$484,390. Cushman Contracting Corporation was deemed the lowest responsive, responsible bidder.

Per the construction bid terms and conditions, the decision by the Board to award the contract or reject all bids must be decided prior to May 11, 2018. A notice-to-proceed must occur by June 1, 2018, although the bid documents reflect that the work will not occur until the winter of 2019.

**FISCAL IMPACTS:**

In compliance with the bid documents and subsequent addendums, the notice to reject all bids or provide a notice of award must be given by May 11, 2018. If the construction bid is awarded to the lowest responsive, responsible bidder, the Fiscal Year 2018-19 Operating Budget must reflect funding to support the bid award contract in an amount of \$484,390.

**LEGAL CONCURRENCE:**

Legal counsel has reviewed the construction contract documents and associated Board resolution.

**ENVIRONMENTAL COMPLIANCE:**

The proposed work is considered maintenance work confined to Reclamation's right-of-way and does not require additional environmental documentation.

**COMMITTEE STATUS:**

The Operations Committee reviewed the engineer's design report and staff report and forwards to the Board a recommendation to approve the proposed FY 2018-19 budget commitment to support project implementation, and through a resolution, approve the issuance of a Notice of Award and authorize the General Manager to execute a construction contract with Cushman Contracting Corporation for the AVAR / Blow-off Structure Rehabilitation Project (Schedules A, B and C) in an amount not-to-exceed \$484,390.

**RECOMMENDATION:**

The Board of Directors approve the proposed FY 2018-19 budget commitment to support project implementation and adopt Resolution No. 660 which approves the issuance of a Notice of Award and authorizes the General Manager to execute a construction contract with Cushman Contracting Corporation for the AVAR / Blow-off Structure Rehabilitation Project (Schedules A, B and C) in an amount not-to-exceed \$484,390.

**LIST OF EXHIBITS:**

- 1) Resolution No. 660

**RESOLUTION NO. 660**

**RESOLUTION OF THE GOVERNING BOARD OF THE  
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING  
ISSUANCE OF A NOTICE OF AWARD AND AUTHORIZING CONTRACT  
EXECUTION WITH CUSHMAN CONTRACTING CORPORATION FOR  
CONSTRUCTION OF THE AIR VACUUM AIR RELEASE / BLOW-OFF STRUCTURE  
REHABILITATION PROJECT**

**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 (collectively the “Joint Powers Agreement”); and

**WHEREAS**, the Member Agencies of COMB consist of the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District (collectively herein the “South Coast Member Agencies”), and the Santa Ynez River Water Conservation District, Improvement District No. 1 (“ID No. 1”); 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 air vacuum air release valves and blow-off structures contained inside a concrete vault that sits directly on top of the South Coast Conduit located in the Lower Reach of the system; and

**WHEREAS**, it is necessary for COMB to implement rehabilitation of the Air Vacuum Air Release Valve / Blow-Off structures in the lower reach (the “Project”) as outlined in the COMB Five-Year Infrastructure Improvement Plan, and further described in the related staff report, to ensure the continued reliable conveyance of Cachuma Lake Project water through the South Coast Conduit; and

**WHEREAS**, the Board approved a proposal from COMB’s consultant, HDR, Inc., to conduct a detailed assessment of site conditions and prepare 100% engineering designs and specifications which have been completed and will be used by the contractor to implement the Project; and

**WHEREAS**, a competitive bidding process was performed for selected sections of the Project (the “Bid”), and sealed bids were opened on February 16, 2018, with Cushman Contracting Corporation being found to be the lowest responsive, responsible bidder; and

**WHEREAS**, although the terms and conditions of the Bid provided that work on the Project would not occur until the winter of 2019, the Bid further provided that the COMB Board would either award the contract for the Project or reject all bids on or before May 11, 2018, and that any Notice to Proceed would be issued on or before June 1, 2018;

**WHEREAS**, it is in the best interest of COMB to provide a notice of award on or before May 11, 2018, enter into said contract for the Project and issue a Notice to Proceed on or before June 1, 2018, including for the reasons provided the COMB Five-Year Infrastructure Improvement Plan and the related staff report;

**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 authorizes a Notice of Award be issued on or before May 11, 2018, and approves a contract to be executed with Cushman Contracting Corporation for the rehabilitation of the Air Vacuum Air Release and Blow-Off Valve structures in the lower reach in an amount not to exceed \$484,390, as well as the issuance of a Notice to Proceed on or before June 1, 2018.

3. The Governing Board further authorizes COMB's officers and staff, including the General Manager, to continue to do all things necessary and appropriate, including, but not limited to, execution and delivery of necessary documents, the obtaining of applicable permits, and any other actions to construct and implement the Project using the approved expenditures.

4. This Resolution shall take effect immediately.

**PASSED, APPROVED AND ADOPTED** by the Governing Board of the Cachuma Operation and Maintenance Board, this 23<sup>rd</sup> day of April 2018, by the following roll call vote:

Ayes:

Nays:

Abstain:

**APPROVED:**

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

**ATTEST:**

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

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                |
|---------------|----------------|
| Date:         | April 23, 2018 |
| Submitted by: | Tim Robinson   |
| Approved by:  | Janet Gingras  |

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**SUBJECT: Quiota Creek Crossing 5 and Crossing 9 Fish Passage Improvement Projects**

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**SUMMARY:**

The Quiota Creek Crossing 5 and Crossing 9 Fish Passage Improvement Projects open competitive bidding will be solicited together next month with the intent to construct the Crossing 5 Project starting in July and the Crossing 9 Project starting in September of this year. Both projects will be solicited together as one bid packet with the object of obtaining one contractor for both projects.

The Board approved expenditures for the Crossing 5 Project through Resolution No. 633 on 6/23/17 and authorized the General Manager on 8/28/17 to enter into the initial procurement contract (purchase of the bridge) for the project. All permits have been obtained for the Crossing 5 Project.

The following is a description of the Crossing 9 Project and the needed approvals to move forward with the project. All permits for the Crossing 9 Project will be acquired before the selected construction contractor initiates the work.

***Project description***

A 60-foot prefabricated bottomless arched culvert is planned to replace the current concrete low flow crossing at Quiota Creek Crossing 9. The project is being designed to the minimum design standards set by all regulatory agencies. Pending final design approval by Santa Barbara County (County) and California Department of Fish and Wildlife (CDFW in collaboration with the National Marine Fisheries Service (NMFS)), the project will begin as soon as possible in September and be completed in December of 2018. Final drawings will be sent by the end of April to CDFW-NMFS and the County. All funding for this project has been secured from a CDFW-FRGP grant (\$993,121) and a COMB construction match (\$50,000). The funding and project were accepted through Resolution No. 658 by the COMB Board on February 26, 2018. Final design approvals and the Notice to Proceed (NTP) from CDFW-NMFS are anticipated in August. Design approval from the County is also expected by August when full payment of the County Encroachment Permit Fee will be due prior to issuance of the permit. The temporary construction Right-of-Entry Agreements from the two landowners within the project boundary have been obtained.

The quote for the ConTech prefabricated bottomless arched culvert system (plus delivery fees) has not been received but is anticipated to be approximately \$320,000. Justification for sole sourcing the bottomless arched culvert system purchase with ConTech is provided (Exhibit 2). The County Encroachment Permit fee will be approximately \$30,000 and will need to be paid prior to issuance of the permit.

**FINANCIAL IMPACT:**

COMB has committed to a \$50,000 construction match, \$66,879 for staff time (COMB services) and \$100,184 for operations expenses (independent design review, all permit fees, etc.). The COMB

proposed budget would provide \$1,035,996 for construction (includes purchase of the bridge) and \$30,000 for design of the project for fiscal year 2018-19. Revenues will cover the costs to purchase the ConTech arch system, construct the project, and provide for general operating expenses. Warren Act Trust Fund revenues remaining for FY 2017-18 total \$70,000 and approximately \$122,500 for fiscal year 2018-19. A summary of the project costs are outlined below:

|   | <b>FY 2017-19</b>   |
|---|---------------------|
| Estimated Construction Cost             |                     |
| Construction Estimate (*)               | \$ 1,035,996        |
| Project Management and Oversight        | 66,879              |
| Operating Expenses                      | 100,184             |
| <b>Sub Total:</b>                       | <b>\$ 1,203,059</b> |
| Available Funding                       |                     |
| CDFW Grant (Operating and Construction) | \$ 993,121          |
| Warren Act Trust Fund FY 2017-18        | 70,000              |
| Warren Act Trust Fund FY 2018-19        | 122,500             |
| <b>Sub Total:</b>                       | <b>\$ 1,185,621</b> |
| Balance to be Funded by Member Agencies | <b>\$ 17,438</b>    |

A summary of ongoing Quiota Creek Crossing 5 and Crossing 9 Project financials will be presented in monthly memos in the COMB Board packet once the projects start construction.

***Construction Contractor***

Project bid proposals will be solicited within the next few weeks with anticipation of receiving all bids by the end of May.

**LEGAL CONCURRENCE:**

Prepared documents have been or will be reviewed by COMB legal counsel.

**ENVIRONMENTAL COMPLIANCE:**

All conditions outlined in the permits for the project will be followed.

**COMMITTEE STATUS:**

The Fisheries Committee was presented information, reviewed the staff report and forwards the following items to the Board with a recommendation to approve:

- 1) Adopt Resolution No. 661 (Exhibit 1) to approve expenditures for the construction of the Fish Passage Improvement Project at Quiota Creek Crossing 9.
- 2) Authorize the General Manager to execute a purchase order for the prefabricated ConTech Engineered Solutions bottomless arched culvert product for Crossing 9 at a price not to exceed \$320,000.
- 3) Authorize the General Manager to solicit competitive bids for the construction of the Quiota Creek Crossing 5 and Crossing 9 Projects (both projects bid as one) in amounts not-to-exceed \$650,000 and \$710,000, respectively.



- 4) Authorize the General Manager to pay the Santa Barbara County Encroachment Permit fee for the Quiota Creek Crossing 9 Project.

**RECOMMENDATION:**

The Board of Directors:

- 1) Adopt Resolution No. 661 (Exhibit 1) to approve expenditures for the construction of the Fish Passage Improvement Project at Quiota Creek Crossing 9.
- 2) Authorize the General Manager to execute a purchase order for the prefabricated ConTech Engineered Solutions bottomless arched culvert product for Crossing 9 at a price not to exceed \$320,000.
- 3) Authorize the General Manager to solicit competitive bids for the construction of the Quiota Creek Crossing 5 and Crossing 9 Projects (both projects bid as one) in amounts not-to-exceed \$650,000 and \$710,000, respectively.
- 4) Authorize the General Manager to pay the Santa Barbara County Encroachment Permit fee for the Quiota Creek Crossing 9 Project.

**LIST OF EXHIBITS:**

- 1) Resolution No. 661
- 2) Non-Competitive Bid (NCB) justification for the purchase of the ConTech product for the Quiota Creek Crossing 9 Fish Passage Improvement Project

**RESOLUTION NO. 661**

**RESOLUTION OF THE GOVERNING BOARD OF THE  
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING EXPENDITURES  
FOR THE CONSTRUCTION OF THE FISH PASSAGE IMPROVEMENT  
AT QUIOTA CREEK CROSSING NUMBER 9**

**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 (collectively the “Joint Powers Agreement”); and

**WHEREAS**, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract with the United States Department of the Interior, Bureau of Reclamation; and

**WHEREAS**, the Member Agencies of COMB consist of the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District (collectively herein the “South Coast Member Agencies”), and the Santa Ynez River Water Conservation District, Improvement District No. 1 (“ID No. 1”); and

**WHEREAS**, in August, 1997, the National Marine Fisheries Service (“NMFS”) listed anadromous steelhead in the Southern California Evolutionarily Significant Unit, including the Santa Ynez River downstream of Bradbury Dam, as an endangered species under the federal Endangered Species Act, and completed and issued on September 11, 2000, a Biological Opinion relative to Cachuma Project operations as they relate to steelhead; and

**WHEREAS**, COMB is committed to implement and cooperate in operations and other management actions designed to protect and enhance habitat conditions for steelhead in the Santa Ynez River and its tributaries downstream of Bradbury Dam; and

**WHEREAS**, the fish passage improvements at Crossing Number 9 on Quiota Creek, a tributary to the Lower Santa Ynez River, will provide improved access to the perennial reaches of Quiota Creek and restore habitat to enhance conditions for steelhead (the “Project”). The Project will replace an existing “at-grade” Arizona-type concrete crossing with a 60-foot prefabricated concrete bottom-less arched culvert (or bridge), which will remain owned, operated and maintained by the County of Santa Barbara. The new bridge system will consist of an internal span of 60 feet and rise approximately 12 feet. A single 18-foot wide lane road surface will be constructed over the top of the arch of the bridge connecting to the existing County road surface; and

**WHEREAS**, COMB has prepared a detailed Scope of Work with specific tasks to be performed, a schedule of completion and a detailed budget that will be used for selection of a construction contractor and construction management of the Project; and

**WHEREAS**, final approval of the Project's 100% design drawings (produced by HDR Fisheries Design Center) by the California Department of Fish and Wildlife ("CDFW"), NMFS fish passage engineers and Santa Barbara County is expected in the early Summer 2018. The bulk of the on-the-ground construction activities for the Project will be accomplished by a hired contractor who will be determined through a competitive bidding process using a pre-approved CDFW-qualified contractor list. Pending obtaining all necessary permits, the Project will be constructed in the late Summer/Fall (September – December) 2018, and is expected to take approximately 75 days to complete; and

**WHEREAS**, COMB estimates that the total expenditures for the Project would be approximately One Million One Hundred Sixty-Nine Thousand Five Hundred Fifty Dollars (\$1,169,550), which would include state grant funding in the amount of \$993,121, along with Warren Act funding, assessments to Member Agencies and a construction match of \$50,000; and

**WHEREAS**, in 2018, COMB was awarded Nine Hundred Ninety-Three Thousand One Hundred Twenty-One Dollars (\$993,121) in CDFW-Fisheries Restoration Grant Program ("FRGP") funding (the "Grant"); and

**WHEREAS**, on February 26, 2018, the COMB Governing Board approved Resolution No. 657 accepting the Grant to fund a significant portion of the total expenditures necessary for the Project; and

**WHEREAS**, on April 18, 2018, the Project was reviewed and considered by COMB's Fisheries Committee and forwarded to the Governing Board with a recommendation for approval; and

**WHEREAS**, the Governing Board desires to authorize and approve the total expenditures for the Project, of which the net cost to the Member Agencies will be below the \$1 million threshold requiring a unanimous vote for approval by the Governing Board as provided in the Joint Powers Agreement.

**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 supports the Fish Passage Improvements on Quiota Creek, including the Project at Crossing 9, which are considered essential to the steelhead restoration effort in the Lower Santa Ynez River.

3. The Governing Board approves and authorizes the requested expenditure for the Project.

4. The Governing Board further authorizes COMB's officers and staff, including the General Manager, to continue to do all things necessary and appropriate, including, but not limited to, execution and delivery of necessary documents, the obtaining of applicable permits, and any other actions to construct and implement the Project using the approved expenditures.

5. This Resolution shall take effect immediately.

**PASSED, APPROVED AND ADOPTED** by the Governing Board of the Cachuma Operation and Maintenance Board, this 23rd day of April 2018, by the following roll call vote:

**Ayes:**

**Nays:**

**Abstain:**

**APPROVED:**

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President of the Governing Board

**ATTEST:**

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Secretary of the Governing Board

## Quiota Creek Crossing 9 Project

### Non-Competitively Bid (NCB) Contract Justification Corrective Action Plan

**To:** Cachuma Operation and Maintenance Board

**From:** Timothy H. Robinson (Project Manager, COMB) and Michael C. Garello (Design Engineer, HDR)

**Contract:** Procurement of a prefabricated ConTech bottomless arch culvert bridge system for the Quiota Creek Crossing 9 Project as required by the project design.

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

#### A. Factors of Consideration

**1. *Why is the submission of a NCB necessary and what are the determining factors that caused the problem?***

ConTech is the sole vendor for the required 60 foot bottomless arched culvert (arch) system (O-Series) that meets the design criteria for the Quiota Creek Crossing 9 project. In short, there are no other suppliers/vendors that provide the same product, design specifications, and price that are required for the project.

Factors determining that conclusion are as follows:

- California Department of Fish and Wildlife (CDFW), as the grantor, requires the use of qualified and experienced contractors and vendors to perform work and supply materials. The basis for that requirement is to ensure project design specifications and construction meets the obligation to prevent environmental degradation and enhance the steelhead fishery.
- Santa Barbara County (County) requires that the proposed bridge system meet and/or exceed Caltrans design standards for a public road. The specific ConTech arch system proposed for the project satisfies those requirements and was the only vendor that provided the necessary span length and load capacity. Caltrans and other national state Department of Transportations (DOT) recognize that ConTech arch systems are standardized to meet state DOT loading requirements.
- In 2010, COMB's design engineer at HDR with staff conducted a search for the most cost effective bridge or bottomless arched culvert system suitable for replacing low flow concrete stream crossings on Refugio Road where it crosses Quiota Creek. ConTech arch systems were the only product that met that engineering design criteria and esthetics requested by the landowners. The specific ConTech arch system selected was compared to other vendors of bridge or arch system specifically for span length, load capacity, flow conveyance, off-site fabrication, installation ease, cost, esthetics, and service provided by the vendor. The results of the study were presented to COMB Member Unit managers on 3/3/09, the COMB Board on 11/22/10, and

summarized in a design memo (4/22/10). ConTech was the sole vendor to meet the design criteria and requests of the landowners.

- Fabrication of the ConTech product in the Los Angeles and Bakersfield areas reduces shipping costs and oversight expenses incurred by the County and COMB engineers for fabrication oversight required by the County.
- The selected arch system is the initial and central component of the design process. The O-Series provides greater flow conveyance at a lower cost than the B-Series that was used in previous projects. Once the arch system is determined, the entire project is then designed around that structure. Five similar projects on Quiota Creek (48-foot arch for Quiota Creek Crossing 6 in 2008, a 60-foot arch for Quiota Creek Crossing 2 in 2010, a 60-foot arch for Quiota Creek Crossing 7 in 2012, a 60-foot arch for Quiota Creek Crossing 1 in 2013, a 53-foot arch for Quiota Creek Crossing 3, a 54-foot arch for Quiota Creek Crossing 4, and a 59-foot arch for Quiota Creek Crossing 5) have successfully followed this design process, each with substantially reduced design and permit costs due to using the same vendor (ConTech) and arch system.
- The vendor is required to supply shop drawings and calculations to COMB and Santa Barbara County (County) that are provided to a third party for independent review. Therefore, the bridge structure has to be selected, reviewed by the County and an independent engineer, and approved by COMB's design engineer and the County prior to the issuance of the project County Encroachment Permit. ConTech has met this obligation in a timely manner at no cost to COMB.
- ConTech is the only vendor that offers the O-Series product which does carry a patent. Other vendors supply fabricated bridge or arch systems but do not meet the design requirements listed above. Vendors considered and the reasons their product does not meet the obligation and unique design criteria for the current project as provided by HDR are as follows:
  - TechSpan – Height to span ratios are not favorable for Refugio Road applications. This system has a rounded arch that is too tall for the required span and flow conveyance of Quiota Creek along Refugio Road. In addition, foundations are larger and as a result more costly than the ConTech arch system.
  - SFC Bridge Systems – Their maximum span is 48 feet. The design for the Quiota Creek Crossing 9 project requires a 60 foot span.
  - TriCon Precast Limited – Has similar arch systems but their Redi-Arch product comes in spans of 12-42 feet which does not meet the span length requirement for this project. Also they are based and only fabricate in Texas, making for high shipping costs.
  - Oldcastle Precast – Has box and arch style bridge systems with spans 30 feet or less. Their arches are ConTech designed and this fabricator serves as middle man for ConTech.
  - Big-R – Sells steel parallel chord truss bridges. Although they are popular, footing and abutment design and construction costs for this style of bridge would exceed those of the ConTech arch system. Use of

this system would require substantial redesign for a product that costs more than the selected and superior Contech arch system. Also this system is not as esthetic in the eyes of the landowners.

Hence, the required flow conveyance, design, height, span length, minimum load capacity, cost, proximity of the fabricator, and esthetics make the ConTech product unique for the required arch system on Quiota Creek, specifically at Crossing 9.

- The ConTech arch systems provide design flexibility with regard to meeting the combination of height, span, and flow conveyance requirements. The height and span are governed by the conveyance requirement which is 1 foot of freeboard under the bottom chord of the bridge at the 50-year flood event. Other road design and safety factors which govern the vertical curve of the road also support the use of the ConTech arch system. No other vendor is capable of providing this construction flexibility.

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

- The project would not meet the requirements of the County set forth to ensure span length and load capacity.
- The project would have to be completely redesigned for an alternative bridge / arch system. This would require reconfiguring the foundations, re-analyzing the hydraulic design for flow conveyance under the structure, and determining the required scour protection for the foundations, rock slope protection, and associated embankment fill and revegetation.
- A redesign would result in further engineering costs both in design and review for the bridge/arch system, road, embankments, in-stream structures, and revegetation.
- The County Encroachment Permit fee would increase due to lack of familiarity with a different structure.
- Other bridge/arch system may increase the size of the project specifically if the County does not grant variances. Currently COMB has received five design variances for each of the Quiota Creek projects that cumulatively reduce the size and subsequently the cost of the project while maintaining road safety standards, fish passage, the rural esthetics of the area, and landowner cooperation. Without those variances, the project would cost significantly more and would not be of the same rural character or be acceptable to the landowners.

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

- COMB's staff and design engineer at HDR continue to study the market, technologies, and availability of bridge/arch systems. If a better system comes onto the market at less cost, it will be evaluated in comparison with the current ConTech arch system.
- To date, alternative bridge/arch systems have failed to meet County design standards specifically for minimum load bearing and flood conveyance; for example a multiple recessed box culvert that was proposed for one of the

Quiota Creek crossings. Staff will continue to work closely with the County on our designs so that we propose projects with products that are acceptable to the County standards and design criteria.

- The vendor product selection is determined by the unique setting of each project regarding geologic, hydrologic, and fluvial geomorphic characteristics. Quiota Creek Crossings 0 through 9 have very similar characteristics and the ConTech arch system is particularly well suited for those conditions. Where other bridge options are appropriate in design and economically viable, and appropriate, they are being evaluated.

## **B. Price Analysis**

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

- COMB's project engineering team evaluated and conducted a design and price comparison and found the ConTech arch system to meet design and price obligations.
- The required product is just not available from other vendors or prefabricators.

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

- Due to the sign of the vendor and their volume of sales, the supplier is able to provide to COMB at no cost signed and sealed Shop Drawing and calculations required for project design evaluation; a benefit that other vendors cannot provide.
- COMB and HDR review costs are expedited by using nearly identical products for each of the Quiota Creek projects to date.
- Spread footings are much easier to design and construct than are typical footings and abutments required by other bridge/arch systems.





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.”*

April 23, 2018

**General Manager Report**

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

Meetings

- Cachuma Project Member Agency Managers Meeting

The Cachuma Project Member Agency Managers meeting is hosted monthly by the Santa Barbara County Water Agency and was held on the first Wednesday in April. The agenda topics included a presentation of Cachuma Reservoir inflow modeling by Shawn Johnson, Senior Hydrologist for Santa Barbara County Flood Control. In addition, discussions regarding rainfall and reservoir levels, upcoming downstream releases, water quality conditions and water conservation and management plans took place. It was recognized the March 20-22 storm provided only a slight increase to the lake by way of rainfall directly on the lake. At the time of the meeting, information was not available pertaining to the 2018 downstream releases. Subsequently, the downstream users report for March was transmitted by Reclamation and provides information related to the decision for upcoming summer releases. The County Water Agency is currently updating their draft snapshot chart of water allocation projections and will be providing this information to the Member Agencies at the next meeting in early May.

- Reclamation Meeting

On April 13, 2018, Reclamation representatives from the Fresno Area Office and the Sacramento Regional Office met with the Cachuma Project Member Agencies, the County Water Agency and COMB staff to answer questions pertaining to the Cachuma Project 2015, 2016, and 2017 deficits, the 2018 water rates including the extraordinary O & M expense, and Reclamations' Cachuma Project budget process. COMB staff prepared an agenda and sent associated support materials including the FY 2015, 2016 and draft 2017 Cachuma Project Financial Statements to the group for advance review. Reclamation provided a schedule of detailed explanations for variances related to the deficits. The Member Agencies were provided an opportunity to engage with Reclamation to advance their understanding of the water rates calculation and revenue application process and receive Reclamations explanations for the expenditures. Additional information concerning authorities, costs, budget breakdown and payment terms is forthcoming from Reclamation.

Administration

- Contracts Executed by the General Manager

Under the general procurement guidelines, Section 2 of the COMB Procurement Policy authorizes the General Manager to approve expenditures made for official Agency business up to a maximum of \$25,000, provided such expenditures are within the budget, as adopted by the Agency.

Pursuant to the COMB Procurement Policy adopted by the Board, a quarterly report of all contracts executed by the General Manager for the period of January 1, 2018 through March 31, 2018 is presented for information. All contracts exceeding the authorized limit have been previously presented to and approved by the governing Board through respective Committees.

| Table 1                               |   |               |              |                 |
|---------------------------------------|---|---------------|--------------|-----------------|
| Contracts Executed by General Manager |   |               |              |                 |
| January 1 - March 31, 2018            |   |               |              |                 |
| Vendor Name                           | Contract Description  | Date Executed | Date Expires | Contract Amount |
| Cushman Contracting Corporation       | Emergency construction work on South Coast Conduit in the Montecito reach due to 1/09/2018 winter storm and mudslides | 03/27/18      | 06/30/18     | \$120,484       |

- COMB FY 2018-19 Draft Operating Budget

The COMB FY 2018-19 Draft Operating Budget and associated supporting materials are currently under development by staff and will be presented to the Member Agencies in early May for review and comment. An Administrative Committee meeting will be conducted thereafter prior to the draft budget presentation to the Board.

- Western Watershed Enhancement Program (WWEP) Grant Award

Reclamation has provided COMB with \$35,000 from their WWEP grant award received in connection with their submittal for grant funding due to the Whittier Fire damage to Reclamation lands. These funds covered costs for installation of the log booms near the North Portal Intake Tower in December 2017. COMB appreciates Reclamation's contribution to the effort in protecting the Lake Cachuma watershed and intake tower area after the destructive Whittier Fire.

Operations Division Administration

- FEMA Request for Public Assistance

Sycamore Canyon Slope Stabilization Project (FEMA-4308-DR-CA)

The February 2017 storm event resulted in a landslide condition that exposed a portion of the South Conduit in the Sycamore Canyon Section. COMB submitted a Request for Public Assistance to the Federal Emergency Management Agency (FEMA) and received a preliminary cost estimate (\$50.6k) to repair the hillside back to pre-event conditions. COMB has since contracted with Flowers and Associates, Inc. to perform a detailed topographic study, geotechnical study, and engineering evaluation to determine the current safety factor of the slope and appropriate engineering design. COMB has initiated an informal reconsideration of the project prior to requesting a more formal review and appeal. COMB's intent with the Sycamore Slope Stabilization Project is to expand the scope of the project to be a Hazard Mitigation Project (HMP) under FEMA reimbursement guidelines and reduce or eliminate long-term risk to South Coast Conduit near Sycamore Creek.

Thomas Fire and Thomas Debris Flow (FEMA-4353-DR-CA)

The January 2018 storm event and subsequent debris flows caused damage to South Coast Conduit appurtenant structures. In particular, air-vent (AVAR) and blow-off (BO) structures were severed in places and covered in mud and debris, causing impairment to the operational condition of the system. COMB staff submitted a Request for Public Assistance to FEMA and has been meeting weekly with the designated Project Disaster Manager to develop a project description and scope of work in order to submit a claim for reimbursement. COMB has submitted three claims under the following FEMA categories:

General Manager Report  
April 23, 2018

Category A: Debris Removal – Includes costs of debris removal from water pipeline appurtenances at various creek crossings caused by the event.

Category B: Protective Cover Measures – Includes staff overtime labor and equipment costs related to fire and flood monitoring, flow changes, evacuation, and staff time spent marking and protecting the SCC pipeline from other contractors removing debris, blasting, and drilling in the areas near the pipeline.

Category F: Public Utilities – Includes costs to replace loss of vault lids, repair damage to sections of the vaults, pipe and flapper valves.

The claims are currently under review by FEMA personnel in order to determine cost estimate as part of the FEMA reimbursement.

*Fisheries Division Activities Update*

Staff has prepared the draft Habitat Improvement Plan (HIP) in anticipation of developing the draft Fiscal Year 2018-19 COMB Operating Budget. The Fisheries Division Manager worked closely with the General Manager in preparing the draft 2018 Report with Annual and Long-term Plans for Water year 2019 for the Cachuma Project Warren Act Trust Fund and Cachuma Project Master Contract Renewal Fund meetings. The Fisheries Division staff continues to work closely with Reclamation on document preparation and closure to improve efficiencies while meeting the BiOp compliance objectives. Specific advancements have been made in the process of developing the Annual Monitoring Reports. Routine BiOp compliance monitoring efforts are being carried out as required specifically in migrant trapping, redd surveys, stream flow monitoring and water quality monitoring. Improved efficiencies in the Oak Tree inventory efforts have been beneficial and have reduced the time needed to prepare the annual report for the Lake Cachuma Oak Tree Committee. Staff is working diligently in preparing to implement two habitat restoration projects this upcoming season.

Respectfully Submitted,

*Janet Gingras*

General Manager

## CACHUMA OPERATION AND MAINTENANCE BOARD

### MEMORANDUM

**DATE:** April 23, 2018  
**TO:** Janet Gingras, General Manager  
**FROM:** Joel Degner, Water Resources Engineer  
**RE: MONTHLY ENGINEERING REPORT**

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

#### **Cachuma Conveyance Operations FY 2018-19 - Emergency Pumping Facility Project Implementation Options**

##### **SUMMARY:**

The elevation of Lake Cachuma could reach 695 feet above mean sea level (ft amsl) in August 2018 during the expected downstream water rights release. However, the loss of gravity flow is not forecasted to occur for another year (in August 2019) during potential 2019 downstream releases. The loss of gravity flow is due to siltation over the years and will require installation of the Emergency Pumping Facility Project (EPFP) to restore operational capacity, maintain stored water deliveries and continued State Water Project (SWP) deliveries to the South Coast.

In April 2017, the Member Agencies discussed and the Board approved an extension of the EPFP contract with Cushman Contracting Corporation (CCC) for storage of key equipment for potential future use. As part of this alternative, COMB negotiated a very low storage cost for the components (\$7,000/month) and significant reductions in price for the installation (60%) and monthly operational costs (37%) with CCC under Change Order No. 15. As it stands, the EPFP implementation will be significantly less than it was during 2014-2017, even with increased costs for steel, HDPE pipe, and labor since that time.

Under Change Order No. 15, item 2c states that pile driving must begin before elevation of the lake reaches 695 feet and further, if COMB has not issued the Notice to Proceed (NTP) prior to this elevation, CCC and COMB will work together to develop a mutually acceptable schedule for facility reconstruction. If the EPFP was installed per Change Order No. 15 (Option 1: Full Deployment) at a lump sum of \$1,488,000 in August 2018, it would remain in standby for approximately 1 year (similar to what occurred in 2014-15). If a wet year occurs in the Winter of 2018-2019, the EPFP would need to be demobilized without being utilized. Using the recent hydrology that occurred from 2000-2017, 44 percent of the years were wet enough to require demobilization if they occurred in 2018-2019.

COMB staff has obtained two additional options from CCC:

**Option 2 - Partial Deployment** - CCC has provided the option to install the EPFP components in two mobilizations. A partial installation of the pilings and pipeline would occur this summer with deployment of the pumping station following the winter of 2018-19. The cost to install the pipeline and pilings would be \$846,000. The ongoing storage costs of \$7,000 per month for the stored key equipment components would continue until the pumping station is resurrected. The remaining installation costs of \$720,000 per contract would be increased by \$78,000 for the additional mobilization effort, but the monthly standby costs of \$30,000 would be reduced to \$20,000 until the pump station installation is completed.

**Pros:** Limited installation risk related to downstream release impacts on elevation; maintains liquidated damages in the contract to ensure reliability

**Cons:** The winter produces inflow and facility is removed before it is used.

**Option 3 - Delay Deployment** – CCC provided an estimate of \$178,375 to delay deployment of the entire system. The cost is based on the requirement of using a larger work crane to install the pilings. However, this option would present risks for operations and would require the elimination of liquated damages for the contractor until the pump station is operational in addition to assurances that lake elevations could be held above 680 ft. amsl for 120 days.

**Pros:** The winter produces significant inflow and mitigates installation

**Cons:** Lake elevation recedes lower than projections, creating additional costs and risks to mobilize/perform

A summary of the Fiscal Year (FY) 2018-19 costs for the EPFP options are provided below (Table 1). Costs include installation, operation & maintenance, and electrical costs. The total implementation costs in a Dry Water Year 2019 (WY19), where the drought continues and the EPFP is needed, is compared to costs in a Wet WY19, where the inflow into Lake Cachuma would rebound lake levels and require removal of the EPFP and components.

**Table 1. Summary of EPFP Options**

| EPFP Extended Contract Operations Options | FY 2018-19 Costs with Dry WY19 | FY 2018-19 Costs with Wet WY19 |
|---|--------------------------------|--------------------------------|
| Option 1: Full Deployment                 | \$1,929,000                    | \$2,090,000                    |
| Option 2: Partial Deployment              | \$1,980,000                    | \$1,130,000                    |
| Option 3: Delay Deployment                | \$1,900,375                    | \$84,000                       |

**BACKGROUND:**

The Cachuma Project was designed as a gravity flow system. In order to make efficient deliveries to the South Coast, the Intake Tower was placed in a bay in the mid-shoreline section of the lake and not in the deepest part of the lake. The invert (bottom) of the North Portal of the Tecolote Tunnel is at 660 ft amsl<sup>1</sup>, the South Portal is at 652 ft amsl. The Tecolote Tunnel runs through the Santa Ynez Mountains and conveys the water in Lake Cachuma for 6.4 miles with an elevation drop of 8 feet. Water is able to flow via gravity through the South Coast Conduit all the way to Carpinteria Reservoir<sup>2</sup>.

However, if the water levels in Lake Cachuma recede below the gates of the intake tower, water can no longer flow via gravity to the South Coast. There are five gates on the Intake Tower. The lowest gate, Gate 5 has been buried in sediment. In 2014, Gate 5 was dredged and the pipeline was connected to a steel box structure installed around Gate 5. The top of gate 5 is covered with a screen at an elevation of 673 ft amsl. During the drought in 2015, the lowest elevation that gravity flow could still occur through the Intake Tower to meet demands was 676 ft amsl, with the water flowing through the screen at the top of Gate 5. A steel plate currently covers the screen at the top of Gate 5 and would need to be removed before the lake elevation recedes below Gate 4 (678 ft amsl) to allow continued gravity flow. The sedimentation around the Intake Tower has effectively increased the minimum gravity-flow conveyance elevation of the reservoir from 660' to 676'. This represents a loss of 15,400 AF of gravity operational capacity due to sedimentation. An emergency pumping facility can be installed to increase the operational capacity of Lake Cachuma in times of drought.

During the drought from 2012-2016, a 36" HDPE floating pipeline was connected to Gate 5 and stretched across the lake 3,200' to a floating pumping station, which allowed water to be pumped from the lake to the South Coast at a lower elevation to continue Cachuma Project and State Water Project deliveries to the South Coast. Due to dropping lake elevations, the pipeline needed to be extended an additional 7,800 feet and the barge re-located to Site 2 (Figure 2).

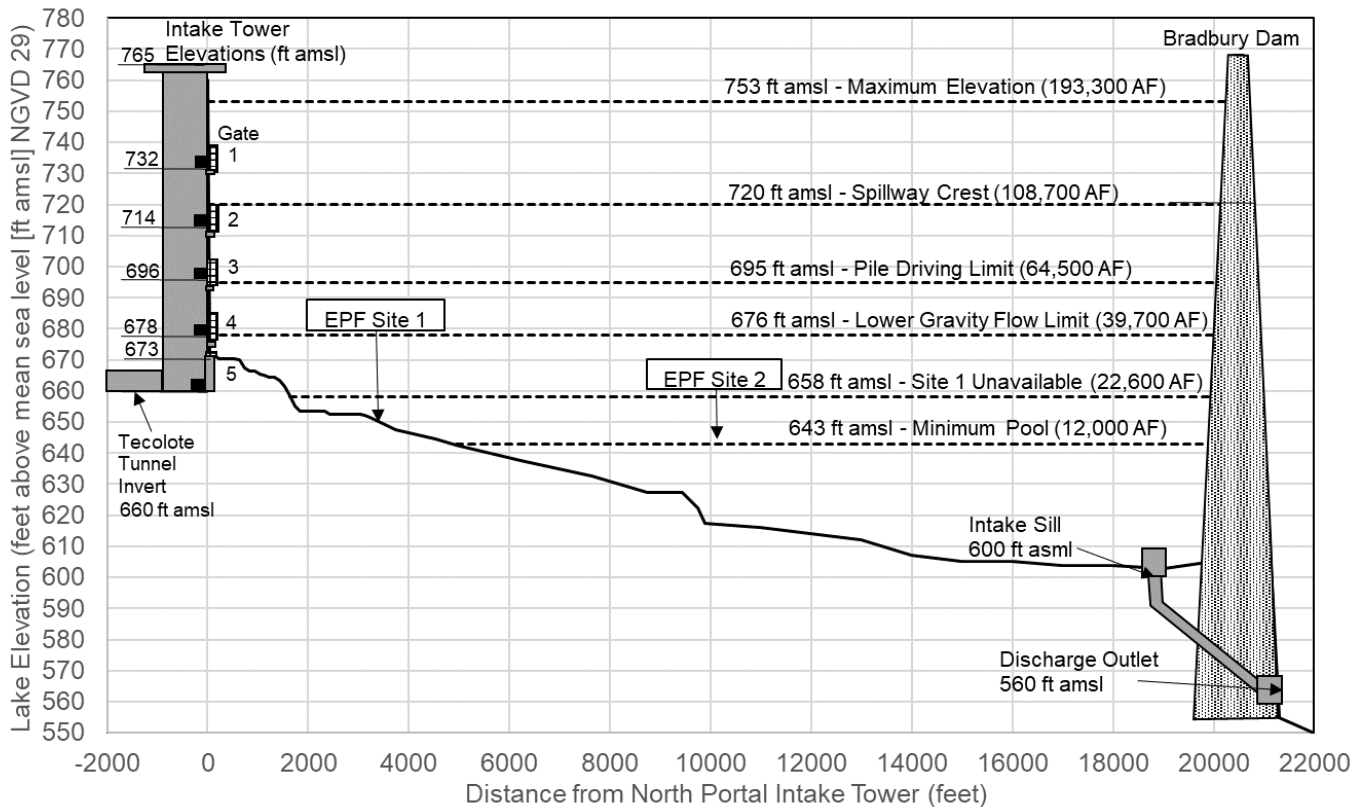
<sup>1</sup> Elevations for the Intake Tower are based on the National Geodetic Vertical Datum of 1929

<sup>2</sup> The addition of Cater Treatment Plant required booster pumps to deliver water to Ortega and Carpinteria Reservoirs.

There are key elevations which trigger drought response actions to ensure continued reliable supply to the South Coast (Table 2). During the 2014-2017 EPFP installation, the first step was driving of piles into the lake bottom to secure the floating pipe. These anchor piles are 45 to 60-feet tall steel H-beams or pipes and were driven to where the elevation at the top of the piles was 700 ft amsl. Utilizing the same working barge/crane as was used in the previous installation of the EPF, pile driving must begin before the lake reaches an elevation of 695 ft amsl (per Change Order No. 15 of the CCC contract). If the lake is at a lower elevation, a larger barge/taller crane is needed to drive the piles into the lake bottom. If the lake is too shallow, there is not enough draft underneath the working barge to allow the piles to be driven. The lowest elevation that the pipeline and piles could be installed with a larger barge and crane is at 685 ft amsl. Once the piles are driven, the the working barge must remain on standby during the winter months. During storm events, the reservoir can rise rapidly. In February 2017, the reservoir rose 23 feet in one day at the peak of the inflow. The reservoir nearly rose above the piles before they could be removed. Cushman Contracting worked around the clock in the rain to remove the piles before the lake level overtopped the pilings. Within the current design, the requirement to drive the piles well before the pumping barge is needed results in the EPFP being placed in standby mode for an extended period of time.

**Table 2. Key Elevations for Lake Operations**

| Limitations   | Elevation (ft amsl) | Storage (AF) |
|---|---------------------|--------------|
| Remove Site 1 Onshore Equipment   | 738                 | 150,500      |
| Pile Driving Must Begin Before 695' under CCC Contract Change Order No. 15 <sup>1</sup> | 695                 | 64,500       |
| Limit of Gravity Flow   | 676                 | 39,700       |
| Invert of the Tecolote Tunnel   | 660                 | 24,300       |
| Site 1 Unavailable  | 658                 | 22,600       |
| Minimum Pool  | 643                 | 12,000       |



**Figure 1. Lake Cachuma Key Elevations for Water Management**



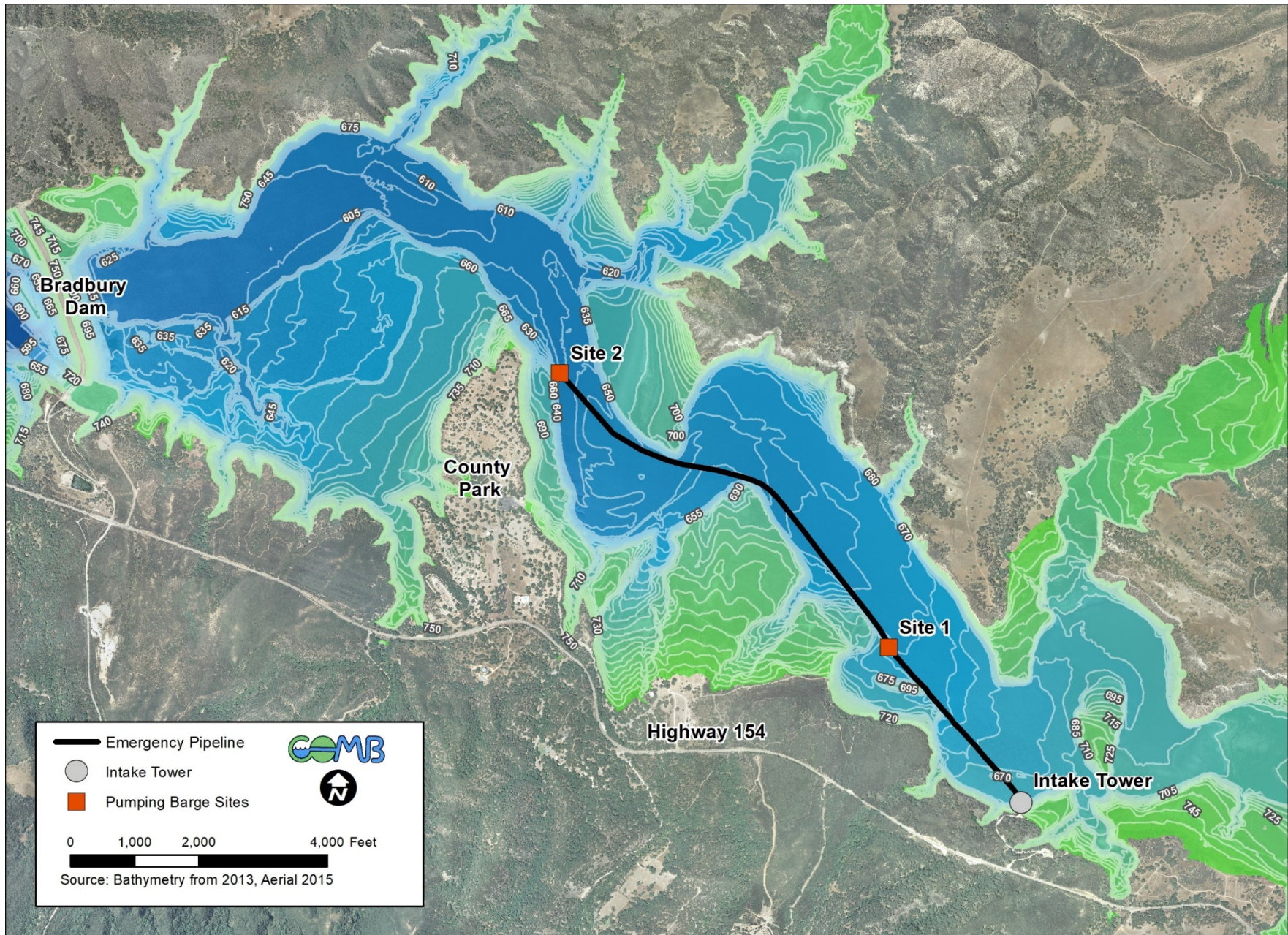


Figure 2. Lake Cachuma Bathymetry and Emergency Conveyance Operation in 2014-2017



## FORECASTED LAKE ELEVATIONS

COMB, in collaboration with the Member Agencies, has developed a Lake Elevation Projection Model which is a spreadsheet model that forecasts the lake elevation for two years based on the current reservoir status and Member Agencies projected demand and water importation. The model can vary parameters which are key to the lake storage: WR 89-18 releases, CCWA inflows, expected natural hydrology (rainfall, evaporation, inflow), and SCC demands. COMB has received Member Agency supply and demand projections through Water Year 2019.

### Model Assumptions

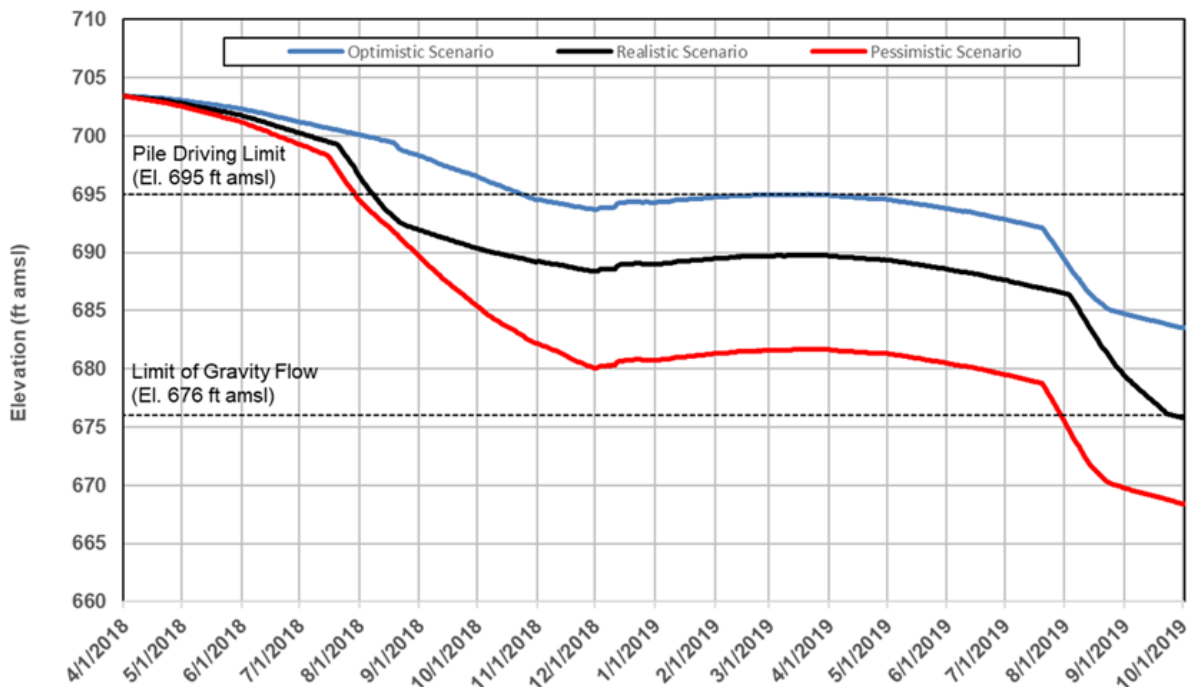
The forecast assumes a repeat of dry year hydrology (evaporation, rainfall, inflow) similar to WY 2014 for the remainder of WY 2018 and repeat of dry year hydrology in WY 2015 for the WY 2019. It also assumes the 2000 Biological Opinion mandated releases at Hilton Creek. The three main variables that affect the lake levels outside of the weather are: 1) the magnitude of the WR 89-18 downstream release; (2) exports or diversions from the lake to the South Coast Conduit (SCC) through the Tecolote Tunnel; and (3) the imports to the lake of State Water Project (SWP) water through the Central Coast Water Authority (CCWA) pipeline. Estimates of downstream releases are based on recent historic releases (Table 3). Exports to the SCC and CCWA inflows are based on monthly Member Agency forecasts. The assumptions for the three scenarios (Optimistic, Realistic, and Conservative) are provided in Table 3 below.

**Table 3. Lake Elevation Projection Scenarios**

| Scenario     | WR 89-18 Release | SCC Exports      | CCWA Inflow      |
|--------------|------------------|------------------|------------------|
| Optimistic   | 4,697 AF(2014)   | 80% of Forecast  | 120% of Forecast |
| Realistic    | 8,000 AF (~2015) | 100% of Forecast | 100% of Forecast |
| Conservative | 17,465 AF (2013) | 120% of Forecast | 80% of Forecast  |

### Model Results

As of March 31, 2018, the Lake elevation is forecasted to drop below the elevation of 695 ft amsl in August 2018 in the realistic and conservative scenarios. This is largely dependent on the timing and amounts of the downstream water rights releases. According to the existing contract, pile driving must begin before an elevation of 695 ft amsl is reached to re-install the EPFP. The EPFP would not likely be needed until the following summer in 2019 if dry conditions continue.



**Figure 3. Forecasted Lake Elevations for WY 2018 and WY 2019**

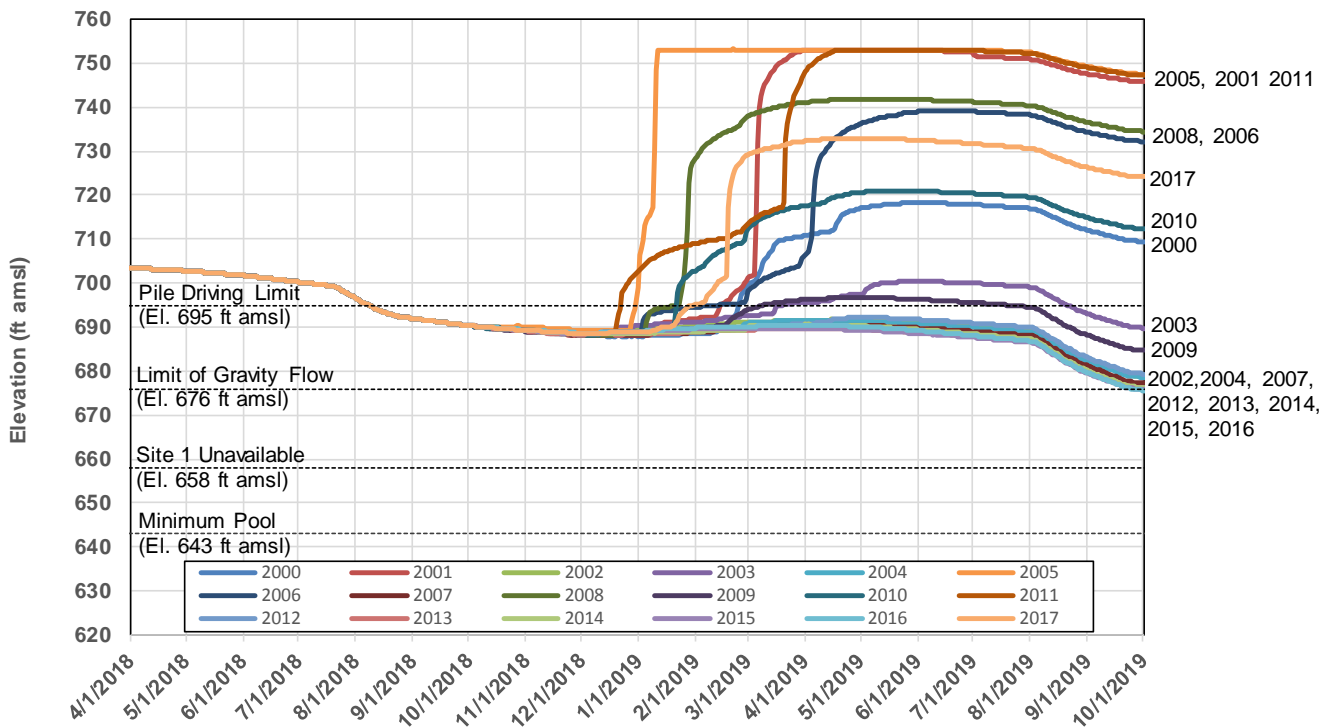


Using the assumptions for the realistic scenario and a repeat of the hydrology from 2000-2017 for Water Year 2018-2019, 8 of the 18 years (44 percent) would result in an elevation above 705 feet on April 1<sup>st</sup>, 2019, likely requiring removal of the pipeline/barge and pumping equipment over the winter season.

**Table 3. Predicted Lake Elevation in April 1, 2019 with Repeat of Hydrology from 2000 to 2017**

| Water Year | Predicted Elevation April 1, 2019 (ft amsl) | Computed Inflow (AF) |
|------------|---|----------------------|
| 2000       | 710.8                                       | 51,896               |
| 2001       | 751.4                                       | 150,233              |
| 2002       | 691.6                                       | 5,512                |
| 2003       | 695.7                                       | 18,822               |
| 2004       | 691.5                                       | 5,752                |
| 2005       | 753.0                                       | 401,756              |
| 2006       | 706.4                                       | 100,496              |
| 2007       | 690.4                                       | 4,264                |
| 2008       | 741.1                                       | 109,471              |
| 2009       | 696.3                                       | 13,135               |
| 2010       | 717.6                                       | 56,553               |
| 2011       | 748.0                                       | 151,261              |
| 2012       | 690.8                                       | 5,949                |
| 2013       | 689.8                                       | 2,906                |
| 2014       | 690.6                                       | 3,842                |
| 2015       | 689.7                                       | 4,080                |
| 2016       | 690.5                                       | 4,574                |
| 2017       | 732.3                                       | 87,425               |

Note: The years shaded in blue would require removal of EFPF during winter months



**Figure 4. Projected Lake Elevation with a Repeat of Hydrology in WY 2019 using WY 2000 to 2017**

**CONTRACT HISTORY**

**Original Design, Build, Operate, Maintain (DBOM) Contract**

In January 2014, COMB solicited Requests for Qualifications (RFQ) from twelve contractors and engineering firms for the EPFP. Four contractors provided statements of qualifications and subsequently three were selected to receive a Request for Proposal (RFP) including Cushman Contracting Corporation, Pascal and Ludwig Contractors, and Specialty Construction Inc. COMB received two bid proposals for the project from Specialty Construction, Inc. and Cushman Contracting Corporation. For design, mobilization, and construction<sup>3</sup> to Site 1, the Specialty Construction bid was \$7,074,775 and Cushman Contracting Corporation was \$3,968,000.

In April 2014, the Board approved the Design, Build, Operation, and Maintain (DBOM) contract with Cushman Contracting Corporation. The contract was performance-based and required the EPFP to meet specified maximum deliveries and be operational 24/7. All risk for designing, building, operating and maintaining the EPFP was placed on the contractor. Cushman operated and maintained the EPFP throughout the drought, providing 24/7 reliable water delivery to the South Coast communities. In the midst of the February 2017 storms with dramatically rising lake levels (23 feet in a 24-hour period), CCC successfully removed the pipeline and piles from the lake.

**Extended Contract Operations (under existing CCC contract) for Temporary EPFP**

In April 2017, with lake elevation at 715 ft amsl, the COMB board analyzed various alternatives for disposition of the Emergency Pumping Facility Project including the following:

- Alternative 1: Creating an RFP to acquire new bids
- Alternative 1A: Extending the Cushman Contracting Corp. contract by leasing the equipment for future use (Change Order No. 15)
- Alternative 2: Purchasing the floating pump station and pairing it with a secured pipeline
- Alternative 3: Constructing an on-shore secured pumping facility paired with a secured pipeline
- Alternative 3A: Construct a robust secured pumping station near the park

The Board approved Alternative 1A: Extended Contract Operations due to it being the lowest cost alternative for one additional installation. Staff negotiated significant discounts for the extension of the contract in Change Order No. 15 which reduced the site 1 installation costs by 60 percent and operational costs by 37 percent (Table 4).

**Table 4. Alternative 1A – Extended Contract Operations**

| Item                           | Original Contract | Comb Offer | Negotiated | CCC Offer    |
|--------------------------------|-------------------|------------|------------|--------------|
| Prep Equip for Storage         | n/a               | ---        |            | ✓\$55,000    |
| Maintain + store/month         | n/a               | \$5,000    | \$7,000    | \$8,600      |
| Standby Ops/month              | \$51,000          | \$30,000✓  |            | ---          |
| Site 1 Ops/month               | \$98,000          | \$50,000   | \$62,000   | \$74,000     |
| Site 2 Ops/month               | \$124,000         | \$60,000   | \$76,000   | \$92,000     |
| Re-install at site 1           | \$3,968,000       | ---        |            | ✓\$1,488,000 |
| Relocate from site 1 to site 2 | \$629,000         | ---        |            | ✓\$765,000   |

The cumulative costs of the implementation and operation of the EPFP during the 2014 to 2017 period were approximately \$8.6 million. With a repeat of the drought from 2014-2017 the EPFP would cost \$4.3 million under the current terms of Change Order No.15 for extended operations, or approximately half.

<sup>3</sup> Design, mobilization, construction, and initial monthly operations included items 1 to 12 in the bid. There were additional monthly operations for various phases of the project (Items 13 and 15), which were a significant portion of the project costs. CCC monthly operations rate for standby and operations were 34-36 percent of Specialty Construction Inc.

**EPFP INSTALLATION OPTIONS (FY 2018-19)**

**Option 1: Deploy according to terms of Change Order No. 15 with pile driving beginning at 695**

Based on the Board’s decision, the Emergency Pumping Facility key components were placed in storage and CCC is to reactivate the EPFP once given notice by COMB. The costs of installation and standby mode are provided in Table 4. The existing terms of Change Order No. 15 include:

- Facility shall be operational within 90 days of COMB’s Notice to Proceed
- Piling driving must begin before elevation of the Lake reaches 695 feet. If COMB has not issued the Notice to Proceed (NTP) prior to this elevation, CCC and COMB will work together to develop a mutually acceptable schedule for facility reconstruction.

Based on the lake elevation projection model, using the realistic scenario, an elevation of 695’ would occur in August 2018. However, the pumping barge system would not be required until approximately one year later. Assuming a repeat of hydrology from 2000 to 2017, 44 percent of the years (Table 3) would result in lake levels rising such that the pipeline would rise above the top of the piles and potentially need to be removed in the winter of 2019. In that case, the facility would have to be installed, removed and not utilized, resulting in sunk costs of \$2,090,000.

**Table 5. Option 1: Full Deployment Costs**

| Costs                 | Costs If Dry Winter in 2018-2019 | Costs if Wet Winter in 2018-2019 |
|-----------------------|----------------------------------|----------------------------------|
| Installation Costs    | \$1,488,000                      | \$1,488,000                      |
| Electrical Costs      | \$150,000                        | \$150,000                        |
| Monthly Storage Costs | \$21,000                         | \$21,000                         |
| Standby Costs         | \$270,000                        | \$270,000                        |
| Demobilization Costs  | 0                                | \$161,000                        |
| <b>Total</b>          | <b>\$1,929,000</b>               | <b>\$2,090,000</b>               |

**Option 2: Partial Deployment - Re-establish Pipe/Piles at 695’ and Delay Re-establishing Pumping System until Spring of 2019**

Due to the lake having the potential to drop below 695’ during water rights releases this summer, COMB requested that CCC evaluate the cost to install the piles and pipeline prior to elevation 695’ and delay installing the pumping barge system until next summer, thus requiring two mobilizations. CCC would likely agree to a change order to install the piles and pipeline before 695’ at a cost of \$846,000 with installation of the pumping barge next spring/summer for a cost of \$720,000. Due to the request of two mobilizations, the overall cost of installation increases by \$78,000. The standby cost would be reduced to \$20,000 per month. With the pumping station to remain in storage, monthly storage costs of \$7,000 would continue until such time the facility is needed.

Separating the two installations would hedge against the risk of a large downstream release drawing the lake down below 685’ elevation. There would still be the potential for a wet winter in 2018-19 to raise the lake and require removal of the system without it being utilized. However, in the wet year scenario the partial deployment sunk costs would be approximately half of the full deployment sunk costs at \$1,130,000.

**Table 6. Option 2: Partial Deployment Costs**

| Costs                 | Costs If Dry Winter in 2018-19 | Costs if Wet Winter in 2018-19 |
|-----------------------|--------------------------------|--------------------------------|
| Installation Costs    | \$1,566,000                    | \$846,000                      |
| Electrical Costs      | \$150,000                      | \$0                            |
| Monthly Storage Costs | \$84,000                       | \$84,000                       |
| Standby Costs         | \$180,000                      | \$120,000                      |
| Demobilization Costs  | 0                              | \$80,000                       |
| <b>Total</b>          | <b>\$1,980,000</b>             | <b>\$1,130,000</b>             |

### Option 3: Delay Deployment – Delay Re-establishing Pumping System until Lake Reaches 685'

Due to the potential for the system to be installed and not utilized, COMB requested that CCC evaluate whether it would be possible to install the facility at a lower lake elevation. At a lower elevation, a larger barge and crane would be required to drive the piles which would increase the costs. CCC would likely agree to a change order modification according to the following conditions:

- Notice to proceed must be given to CCC to build the pump station 45 calendar days before the lake elevation drops below elevation 685'.
- CCC must be allowed a minimum of 120 days for the facility to be operational and during this period the lake elevation must remain above 680'.
- No liquidated damages will be charged until after the Pump Station is fully operational

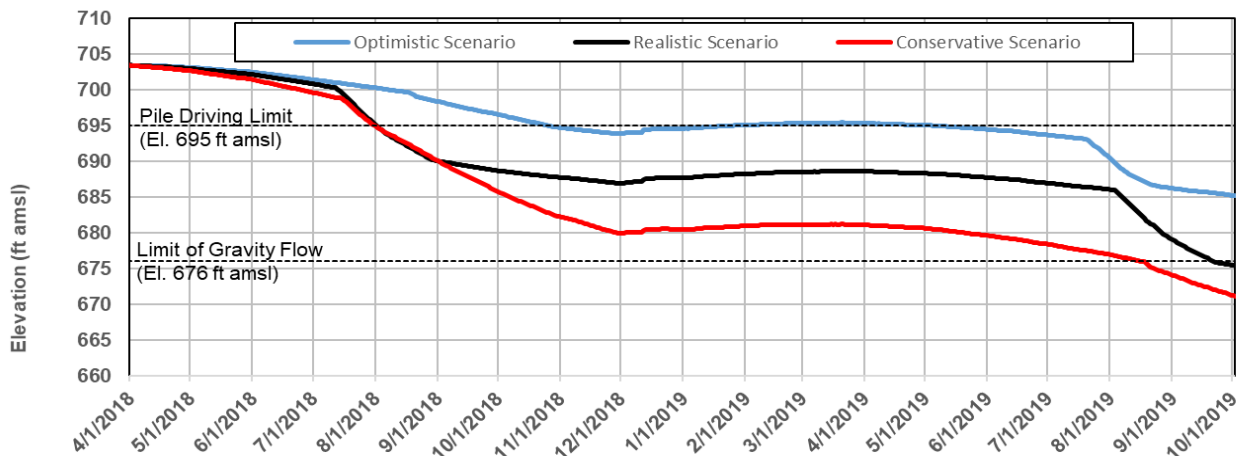
This would increase the Site 1 installation costs for Change Order No 15 by \$178,375. There is a risk that the lake could drop below the 685 ft amsl during the downstream water rights releases this summer and not remain above 680' for 120 days. A downstream release of 16,000 AF could result in the elevation dropping below 685 ft amsl in October 2018. While this option would avoid the sunk costs, it would add risk to the installation and potentially reduce the reliability of the EPFP due to a reduction in the liquidated damages clause in the contract. Since there would be no standby costs under this option, the overall costs in a Dry Winter scenario would also be lower than a Full Deployment or Partial Deployment option, even with the increase in cost of \$178,375.

**Table 7. Option 3: Delay Deployment Costs**

| Costs                 | Costs If Dry Winter in 2018-19 | Costs if Wet Winter in 2018-19 |
|-----------------------|--------------------------------|--------------------------------|
| Installation Costs    | \$1,666,375                    | \$0                            |
| Electrical Costs      | \$150,000                      | \$0                            |
| Monthly Storage Costs | \$84,000                       | \$84,000                       |
| Standby Costs         | 0                              | \$0                            |
| Demobilization Costs  | 0                              | \$0                            |
| <b>Total</b>          | <b>\$1,900,375</b>             | <b>\$84,000</b>                |

EXTENDED CONTRACT OPERATIONS

|  | 2018       |   |   |  | 2019                      |   |                         | Total Cost (\$) |        |
|--|------------|---|---|--|---------------------------|---|-------------------------|-----------------|--------|
|  |            |   |   |  |                           |   |                         | Dry             | Wet    |
| Option 1: Full Deployment<br>Existing Contract, CO No. 15                                | CCC<br>NTP | Install piles,<br>pipeline, and<br>pumping system | Remove<br>system if<br>wet year             |  |                           | Begin EPF<br>Operations                           |                         | 1.93 M          | 2.09 M |
| Option 2: Partial Deployment<br>Install Pipe/Piles before 695<br>and Pump Station at 685 | CCC<br>NTP | Install piles/<br>pipeline                        | Remove pipeline<br>and piles if wet<br>year |  | Install pumping<br>system | Begin EPF<br>Operations                           |                         | 1.98 M          | 1.13M  |
| Option 3: Delay Deployment<br>Installation delayed until 685                             |            |   |   |  | CCC<br>NTP                | Install piles,<br>pipeline, and<br>pumping system | Begin EPF<br>Operations | 1.90 M          | 0.08 M |



## Lake Cachuma Evaporation Update

A wildlife camera was installed on the evaporation pan at Lake Cachuma in late March. The camera documented large birds (turkey vultures) drinking and bathing in the pan which may have been affecting recent evaporation rates. Reclamation has placed bird protection measures at the evaporation pan following review of the wildlife camera observations.

## Infrastructure Improvement Planning

Infrastructure improvement planning is on-going for Fiscal Year 2018-2019. Table 1 provides a summary of the FY 2017-2018 Infrastructure Improvement Projects. Several projects were delayed this year due to drought and impacts from the Thomas Fire and subsequent debris flows.

**Table 1. Infrastructure Improvement Projects Status**

| <i>Infrastructure Improvement Projects</i>          | <i>Status / Phase</i>   | <i>Complexity / Challenges</i>  | <i>Estimated Completion Date</i>                        |
|---|---|---|---|
| SCC Structure Rehabilitation (AVAR/BO)              | Engineering completed by HDR Engineering. Construction bids received on March 16, 2018. Work to be completed in FY 2018-2019 once approved by Board.  | Bid submittals extended due to Thomas Fire and debris flow event. Work to be completed in low demand months. Two 3-day shutdowns required which need to be coordinated with Member Agencies demands.                      | May 2019  |
| ROW Identification Program                          | Brochure prepared/website updated. Approval needed from Public Relations Committee before distribution. Old GPS unit replaced which will help with accurate ROW location and encroachment documentation.  | Brochure may generate additional questions from landowners within easements.  | June 2018 (additional work planned in following years). |
| Lateral 3 Structure                                 | Construction contract in place, parts ordered, repair scheduled for FY 2018-2019. Delayed due to drought/fire impacts.  | Requires 10-day shutdown in upper reach of the system.  | January 2019  |
| Emergency Pumping Facility Project                  | Contract and permits in place for re-deployment if necessary. Evaluated alternatives to delay or partially deploy to reduce costs. Met with GMs and Ops Committee in April on options. Waiting on additional information on potential downstream release before bringing to the board for decision.                 | Need highly dependent on lake levels and actual downstream releases. Current design requires long lead time in installation before the barge is utilized.   | TBD   |
| Rehabilitate San Antonio Creek Blow-off             | RFP issued for engineering design. One proposal was received for engineering. Potential contractor visited site and is refining details of proposed engineering work for potential contract. Repair planned to be timed with Lateral 3 shutdown in FY 2018-2019.  | Complexity of repair will depend on the condition of the saddle connection to the SCC. Also repair requires shutdown in upper reach of the system.  | January 2019  |
| North Portal Slope Stabilization                    | Slope stabilization work complete, road paving slated for FY 2018-2019.   | Area vulnerable due to Whittier Fire.   | September 2018  |
| Sycamore Canyon Slope Stabilization                 | Geotech/survey work complete, preliminary engineering design received. Plan to complete slope stabilization work FY 2018-19.  | Magnitude of repair dependent on need to mitigate overall slope stability or fix drainage and surficial scour.  | October 2018  |
| Meter Replacement Project                           | City of Santa Barbara replaced three meters in system in March 2018 including Cater influent, Gibraltar and booster pump station meters with highly accurate, lab-tested Venturi meters as part of their overall meter update program. Data from the City's new meters will help verify other meters in the system. | Results from the City meters will assist in determining need to replace COMB meters. Meter data will be evaluated in April and May to determine next steps.   | April 2018  |
| North Portal IT/Control Building Seismic Assessment | RFP ready to be issued but on hold as lake levels impact seismic assessment.  | With lower lake levels and the Intake Tower exposed, it is easier to evaluate the structural integrity of Intake Tower.   | TBD   |
| SCC San Jose Creek Pipe Stabilization Evaluation    | Additional research on options needed. Prepare RFP for stabilization after further analysis.  | Top of pipeline is exposed on left bank of creek. In near term, temporary pipe protection options are being considered. There exists a need for a long-term solution. Fish passage impacts to the stream are a challenge. | TBD   |

**CACHUMA OPERATION AND MAINTENANCE BOARD**

**MEMORANDUM**

**DATE:** April 23, 2018  
**TO:** Janet Gingras, General Manager  
**FROM:** Dave Stewart, Operations Division Manager  
**RE:** **MONTHLY OPERATIONS DIVISION REPORT**

**Operations**

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 (IIP).

**Lake Cachuma Operations**

The total flow from Lake Cachuma into the Tecolote Tunnel for March was 364.5 acre-feet, for an average daily flow of 11.75 acre-feet. Lake elevation was 701.79 feet at the beginning of March and 703.45 feet at the end of March. Storage change increased 2,725 acre-feet. CCWA wheeled 975.9 acre-feet of water to Cachuma Project facilities.

**Operation and Maintenance Activities**

COMB staff regularly performs the following duties:

- Operations and maintenance of the South Coast Conduit (SCC) and facilities on the South Coast:

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

- Operation of the Lake Cachuma North Portal Intake Tower and Jet Flow Valve
- Regulate and maintain flows from Lake Cachuma to meet the needs of South Coast Member Units
- Dam inspection and instrumentation reports (all reservoirs)
- Weekly safety meetings
- Weekly rodent bait (all reservoirs)
- Weekly toe drain and piezometer reads at Ortega (L23)

- Structure maintenance per Work Plan
- USA Dig Alerts – Responded as necessary to alerts
- Pesticide report to County of Santa Barbara
- Operational tests of generators at the North Portal and at Lauro Yard
- Inspection of fire extinguishers
- Read anodes and rectifier data
- Water samples taken at Lake Cachuma
- Clean up, inspection and tool inventory of all vehicles
- Clean up and organize service yard and all buildings

#### Weekly Safety Meetings:

The primary purpose of the weekly safety meetings is to educate staff on safe practices in the field and on-site. In the safety meetings, staff is urged to ask questions regarding the topic being discussed and to share related examples. The discussion also includes practices on preventative measures. Regular safety meetings assist staff to continually be aware of safety practices while on the job. The following topics were reviewed this past month:

#### *Reading:*

- Snake Safety – Discussed the dangers of working in areas where snakes are present. Reviewed with staff the appropriate Personal Protective Equipment (PPE) to use while working in these areas along with company protocols and first aid steps to take if a snake bite occurred.
- Fire Prevention – Discussed fire, fire prevention and sources of potential fires in and around the workplace or while out in the field and the emergency protocols that staff should follow if a fire occurred.
- First Aid for Burns – Review with staff the first aid measures to take if a staff member were to receive thermal, electrical or chemical burns.

#### COMB Operations staff specifically performed the following activities:

- 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.
- Performed a shutdown on the Upper Reach section of the SCC from the Glen Annie Turnout to Corona Del Mar Turnout structure. During the shutdown, the Goleta Water District performed maintenance on the Corona Del Mar influent pipeline.
- Performed a shutdown of the Upper Reach section of the SCC from the San Marcos isolation valve to Lauro Reservoir. During the shutdown, the City of Santa Barbara replaced the Cater Water Treatment Plant influent meter.
- Performed a shutdown on the Lower Reach of the SCC from the Cater Water Treatment Plant to the Sheffield control station. During the shutdown, the City of Santa Barbara replaced the South Coast booster pump station meter.

- During the Upper Reach shutdown, COMB staff replaced a damaged gate valve at structure 57+97.
- Performed a flush of the Tecolote Tunnel for maintenance purposes.
- Calibrated the Glen Annie Turnout Venturi meter.
- Transitioned from the South Coast Member Unit pipeline to the USBR pipeline between the South Portal and the Glen Annie Turnout.
- Completed annual valve exercising on the Upper Reach of the SCC. Specific sites included in the program were the North Portal Control Station, South Portal, Glen Annie Turn Out, San Marcos Isolation Valve and Lauro Reservoir.
- Operated the Lauro Reservoir Hydraulic ball valve and the Lauro stop valve.
- Began the annual structure maintenance program on the Lower Reach of the SCC. To date, staff has completed maintenance and valve exercising at 20 sites. The scope of work in this program includes exercising of all valves, servicing of air vents, repainting of signage, cleaning and re-establishing site access.
- Began repairs to the Toro Canyon blow off Sta. # 592+80 that was damaged during the mudslides.
- Obtained the Lake Cachuma monthly water sampling for the City of Santa Barbara.
- Operations staff continually inspects all sites, reservoirs and the SCC for items to add to the IIP for future projects.

Current IIP projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation and Replacement - Staff is providing a recommendation to the Board for the April Board meeting.
- North Portal Slope Stabilization - The slope stabilization work is complete and road paving is slated for FY 2018-19.
- Sycamore Canyon Slide Repair – Survey and geotechnical field work is complete. Met with contractor to discuss results and preliminary design. Staff has received preliminary design and anticipates receiving the geotechnical/design report in May.
- Lateral #3 Replacement – The contractor is in place and the parts are acquired. Construction is delayed until next winter due to the drought and lack of alternative sources of water.



## OPERATIONS PROJECT PHOTOS

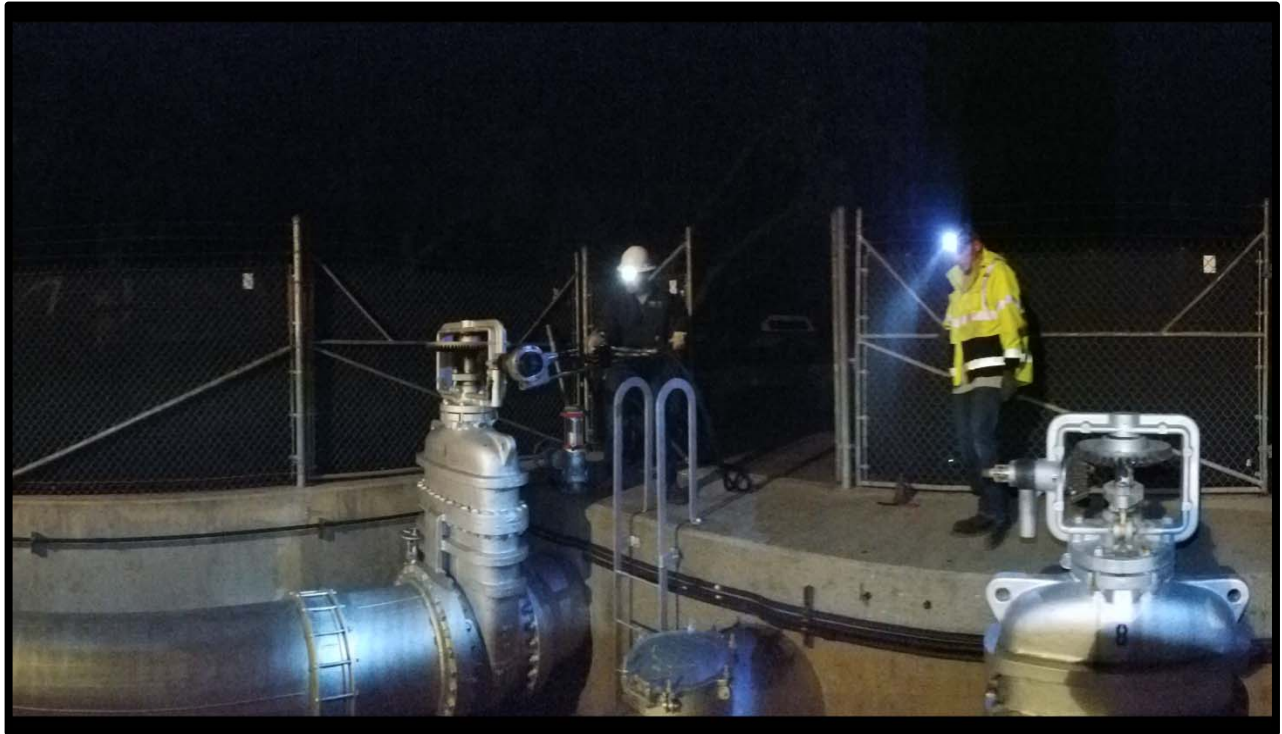


57+97 Valve Replacement and Rehab



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Lake Cachuma Intake Tower slide gate exercising



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Sheffield Control Station valve exercising



# ON GOING PROJECTS

LAT 3A



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Remove abandoned turnout and reconfigure blow off structure



**PATTERSON AVE.**



Patterson Oaks subdivision



# BOULDERS PROJECT



Boulders subdivision

# CACHUMA OPERATION AND MAINTENANCE BOARD

## BOARD MEMORANDUM

**DATE:** April 23, 2018  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE:** **MONTHLY FISHERIES DIVISION REPORT**

### HIGHLIGHTS:

- Reclamation continues to deliver approximately 2 cfs to Hilton Creek at the Lower Release Point through the Hilton Creek Emergency Backup System by gravity flow. No water is being delivered to the Upper Release Point due to difficulties in operating the Hilton Creek Watering System pumps. This rate of flow is meeting BiOp target flows for Hilton Creek and sustaining the *O. mykiss* population in the creek. Flow augmentation for the downstream release is being done by Reclamation through the Outlet Works to meet BiOp required target flows at the Highway 154 Bridge.
- Reclamation obtained NMFS concurrence and permits then requested the COMB Fisheries Division staff to conduct a small pilot project of gravel augmentation to Hilton Creek. The first of the two year effort has been completed with successful spawning at the augmented gravel sites

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

### LSYR Steelhead Monitoring Elements:

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

**Migrant Trapping:** The 2018 Trapping Plan was submitted to Reclamation in January with no comments received. This monitoring effort normally begins in January and continues through May depending on stream flow rates. This year the Hilton Creek traps were installed on 3/5/18 and the Salsipuedes Creek traps were installed on 3/23/18. Traps were installed late due to low flow conditions with little opportunity for fish movement. Traps are removed during high flow events for safety of the staff, fishery and equipment, or if flows are too low to

enable migration. Results of the trapping program are presented in the Annual Monitoring Report.

**Redd Surveys:** Redd surveys are conducted every two weeks from mid-January through May. Surveys were initiated in January within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access was permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Plan. The initial redd survey of the year started on 1/4/18. Redds have been observed in Hilton Creek, Quiota Creek, and Salsipuedes Creek.

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

**Hilton Creek Gravel Augmentation:** In the summer of 2017, Reclamation met with fluvial geomorphologists and fisheries biologists from NMFS and Reclamation to investigate the possibility of conducting gravel augmentation downstream of Bradbury Dam. The recommendation of the group was to move forward with the proposed action. Reclamation then requested from the COMB Fisheries Division to write a short-term (2 year) gravel augmentation plan for Hilton Creek. The proposed project was thought to be a pilot study for a possible larger scale effort if successful. Reclamation consulted with NMFS and obtained the required permits. The Fisheries Division then carefully installed the gravel as proposed in the plan at 5 locations within Hilton Creek just prior to the spawning season. To date, spawning activity has been observed at 3 of the 5 sites and young of the year have just been observed at one of those sites. Initial results suggest the project has been successful.

#### **Tributary Project Updates:**

**Quiota Creek Crossing 5:** As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. COMB was awarded the grant and the COMB Board accepted the grant by resolution on 5/22/17. The Board approved by resolution expenditures of funds for the project on 6/26/17. All permits and final designs for the project have been obtained and approved.

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

The second funding opportunity for this project is through a CDFW-FRGP grant application that will be submitted by 3/30/18 for approximately \$1,000,000 (pending final budget calculations) with a \$50,000 construction match from COMB as approved by the COMB Board during the 2/26/18 Board meeting. The grant award notices will be given during February 2019.

**Quiota Creek Crossing 9:** COMB was awarded a CDFW-FRGP grant for the Crossing 9 Project for \$993,121 with a \$50,000 COMB construction match. The project is tentatively scheduled for construction in the fall of this year pending permit acquisition and design approval. A separate Board memo has been prepared for this project.

**County-COMB MOU for Quiota Creek Projects:** An MOU was established on 6/4/13 between Santa Barbara County and COMB that describes the maintenance responsibilities for all Quiota Creek habitat enhancement projects along S. Refugio Road. Each project would be documented by an addendum to the MOU. To date, addendums have been recorded for the completed Quiota Creek Crossing 6, Crossing 2 and Crossing 7 projects. Staff has been working with COMB legal counsel and will be submitting soon the addendums for the completed Quiota Creek Crossing 1, Crossing 3 and Crossing 4 projects. This is an administrative process.

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

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

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

The HCWS and HCEBS are owned, operated and maintained by Reclamation. The HCEBS was completed at the end of January 2016. With this system fully operational, Reclamation has now been working on the identified repairs to the HCWS with recent success on getting the pumping system operational. Work is still needed on the HCEBS to meet operational design.

### **Surcharge Water Accounting**

The following table summarizes the amount of surcharge water used to date from each of the three accounts plus project yield at the end of last month (Table 1). All numbers are from Reclamation's Daily Operations Report. The start time for the use of the Surcharge Water Accounts and Project Yield was 5/27/11, or the day following the last day of full surcharge and end of the last spill event. As of May 2012, all of the fish rearing accounts have been used and Reclamation is now using Project Yield to meet BiOp target flows. Water Right (WR 89-18) release durations since 2013 are noted as follows: 7/15/13 - 12/2/13, 8/18/14 - 11/11/14, 8/3/15 - 9/26/15, 7/12/16 - 8/29/16, and the most recent release 8/21/17 - 11/8/17. During these releases, no fish rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. The remaining amount in the AMA is 351 acre-feet. There have been no releases from the Fish Passage Supplementation Account (FPSA). Determination of critical drought and the associated accounting and possible usage of the AMA and FPSA have not been finalized and approved (or if those accounts are now replenished from last winter's runoff) by NMFS and Reclamation. Therefore they are not reflected in Table 1.



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

| <b>Accounts*</b>   | <b>Allocation</b>  | <b>Amount Used**</b> | <b>Amount Remaining</b> |
|--|--------------------|----------------------|-------------------------|
| <b>Units:</b>  | <b>(acre-feet)</b> | <b>(acre-feet)</b>   | <b>(acre-feet)</b>      |
| <b>Fish Passage Supplementation</b>  | 3,200              | 0                    | 3,200                   |
| <b>Adaptive Management</b>   | 500                | 149                  | 351                     |
| <b>Fish Rearing***</b>   | 5,484              | 5,484                | 0                       |
| <b>Project Yield</b>   |                    | 16,442               |                         |
| <b>Total:</b>  | 9,184              | 22,075               | 3,551                   |
| * Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.  |                    |                      |                         |
| ** Values as of 3/31/18.   |                    |                      |                         |
| *** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts. |                    |                      |                         |

**Reporting / Outreach / Training**

**Reporting:** Staff continues to work on the Annual Monitoring Reports and provided a revised report format to Reclamation early this month per their request. The WY2014 AMR was sent by Reclamation to NMFS on 4/11/18. The Fisheries Division Manager gave a lecture at Ventura Community College on 4/18/18 on using GIS technologies for natural resource management. Staff has been providing information to Reclamation as requested in support of re-consultation and other operational requests.

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

**Consultant Activity Summary:**

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

**COM3 Consulting** (Gerald Comati) – Quiota Creek Crossing 8 CalTrans grant application.

**ICF** (Jean Baldrige) – BiOp compliance tasks and support.

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

|               |                              |
|---------------|------------------------------|
| Date:         | April 23, 2018               |
| Submitted by: | Tim Robinson and Scott Volan |
| Approved by:  | Janet Gingras                |

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

**SUMMARY:**

***Maintenance***

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since June, 2017 to the present (6/1/17 – 4/23/18, Table 1). Labor and expenses for the entire fiscal year (July 2017 - June 2018) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16, which sets the mitigation number for the program. The 2016 Annual Inventory and Fiscal Year 2016-2017 Financial Report has been completed and reviewed by the Lake Cachuma Oak Tree Committee during their 8/9/17 meeting. The directives for the coming fiscal year have been presented by the Committee chairperson during the August COMB Board meeting and those directives have been followed.

**Table 1: Cachuma Oak Tree Program completed tasks since June, 2017.**

|                                    | June 2017           | July 2017           | Aug 2017            | Sep 2017            | Oct 2017                          | Nov 2017              | Dec 2017            | Jan 2018            | Feb 2018*  | March 2018*           | April 2018*       |
|------------------------------------|---------------------|---------------------|---------------------|---------------------|-----------------------------------|-----------------------|---------------------|---------------------|------------|-----------------------|-------------------|
| <b>Year 9 Oaks<br/>(2016-2017)</b> | Irrigated<br>Weeded | Irrigated<br>Weeded | Irrigated<br>Weeded | Irrigated<br>Weeded |                                   | Irrigated<br>Weeded   |                     | Irrigated<br>Weeded | Mulched    |                       |                   |
| <b>Year 8 Oaks<br/>(2015-2016)</b> | Irrigated<br>Weeded | Irrigated<br>Weeded | Irrigated<br>Weeded | Irrigated<br>Weeded |                                   | Irrigated<br>Weeded   | Irrigated<br>Weeded |                     | Mulched    | Mulched               | Mulched<br>Weeded |
| <b>Year 7 Oaks<br/>(2014-2015)</b> | Irrigated<br>Weeded |                     |                     | Irrigated<br>Weeded |                                   |                       |                     |                     |            | Mulched<br>Deer Cages | Mulched<br>Weeded |
| <b>Year 6 Oaks<br/>(2010-2011)</b> | Irrigated<br>Weeded |                     |                     |                     | Irrigated<br>Weeded<br>Deer Cages | Pruning<br>Deer Cages |                     | Deer Cages          | Deer Cages |                       |                   |
| <b>Year 5 Oaks<br/>(2009-2010)</b> | Irrigated<br>Weeded |                     |                     |                     |                                   | Deer Cages            | Irrigated<br>Weeded |                     |            |                       |                   |
| <b>Year 4 Oaks<br/>(2008-2009)</b> |                     |                     |                     |                     |                                   |                       | Irrigated<br>Weeded |                     |            |                       |                   |
| <b>Year 3 Oaks<br/>(2007-2008)</b> |                     |                     |                     |                     |                                   |                       | Irrigated<br>Weeded |                     |            |                       |                   |
| <b>Year 2 Oaks<br/>(2006-2007)</b> |                     |                     |                     |                     | Irrigated<br>Weeded<br>Deer Cages |                       |                     |                     |            |                       |                   |
| <b>Year 1 Oaks<br/>(2005-2006)</b> |                     |                     |                     |                     | Irrigated<br>Weeded<br>Deer Cages |                       |                     |                     |            |                       |                   |

\*Annual Oak Tree Inventory

The field portion of the annual oak tree inventory was completed during the first week of April. QA/QC will be conducted in-house to assure accuracy of the results. The inventory results will be provided to the Lake Cachuma Oak Tree Committee.

Crews have been adding mulch to the Year 7 and 8 trees at Bradbury Dam. Hand weeding is being conducted around each tree prior to adding mulch. The added mulch will help extend existing soil moisture through the spring and when personnel begin irrigating during the upcoming dry season.

If no additional spring rainfall occurs, crews will begin irrigating within the next few weeks. The newer age classes of oak trees will be watered first, followed by the older age classes of trees.

**RECOMMENDATION:**

For Board information only.

**LIST OF EXHIBITS:**

N/A

**CACHUMA OPERATION AND MAINTENANCE BOARD**

**METERED USE REPORT FOR MARCH 2018**

| 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                         |      | 5.59                 | 18+62   | G. WEST                              | 11.16                |
| Boundary Meter - West                         |      | (0.01)               | 78+00   | Corona Del Mar FILTER Plant          | 14.80                |
|   |      |                      | 122+20  | STOW RANCH                           | 0.00                 |
|   |      |                      |   | Bishop Ranch (Wynmark)(Water Rights) | 0.00                 |
|   |      |                      |   | Raytheon (SWP) (Warren Act Contract) | (2.00)               |
|   |      |                      |   | Morehart (SWP) (Warren Act Contract) | (4.00)               |
|   |      |                      |   | SWP CREDIT (Warren Act Contract)     | (8.80)               |
|   |      |                      | <b>TOTAL</b>  |                                      | <b>11.16</b>         |
|   |      |                      | <b>MONTECITO WATER DISTRICT</b>                           |                                      |                      |
|   |      |                      | 260+79  | BARKER PASS                          | 26.76                |
|   |      |                      | 386+65  | MWD YARD                             | 6.99                 |
|   |      |                      | 487+07  | VALLEY CLUB                          | 0.33                 |
|   |      |                      | 499+65  | E. VALLEY-ROMERO PUMP                | 58.86                |
|   |      |                      | 510+95  | MWD PUMP (SWD)                       | 2.96                 |
|   |      |                      | 510+95  | ORTEGA CONTROL                       | 0.30                 |
|   |      |                      | 526+43  | ASEGRA RD                            | 1.34                 |
|   |      |                      | 555+80  | CO. YARD                             | 0.00                 |
|   |      |                      | 583+00  | LAMBERT RD                           | 0.00                 |
|   |      |                      | 599+27  | TORO CANYON                          | 0.00                 |
|   |      |                      |   | SWP CREDIT (Warren Act Contract)     | (97.53)              |
|   |      |                      | <b>TOTAL</b>  |                                      | <b>0.00</b>          |
|   |      |                      | <b>CITY OF SANTA BARBARA</b>                              |                                      |                      |
|   |      |                      | CATER   | INFLOW                               | 490.34               |
|   |      |                      | Gibraltar   | PENSTOCK                             | (59.77) (*)          |
|   |      |                      | CATER   | SO. FLOW                             | (241.27)             |
|   |      |                      | Sheffield   | SHEF.LIFT                            | 116.51               |
|   |      |                      |   | SWP (Warren Act)                     | (291.19)             |
|   |      |                      |   | La Cumbre Mutual SWP (Warren Act)    | (14.61)              |
|   |      |                      | <b>TOTAL</b>  |                                      | <b>0.00</b>          |
|   |      |                      | <b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b> |                                      |                      |
|   |      |                      | COUNTY PARK, ETC  |                                      | 0.15                 |
|   |      |                      | <b>TOTAL</b>  |                                      | <b>0.15</b>          |
|   |      |                      | <b>BREAKDOWN OF DELIVERIES BY TYPE:</b>                   |                                      |                      |
|   |      |                      | STATE WATER DELIVERED TO LAKE                             |                                      | 976.00               |
|   |      |                      | STATE WATER TO SOUTH COAST (including from storage)       |                                      | (423.71)             |
|   |      |                      | BISHOP RANCH DIVERSION                                    |                                      | 0.00                 |
|   |      |                      | <b>METERED DIVERSION</b>                                  |                                      | <b>11.31</b>         |
| SWP CREDIT (Warren Act Contract) (5.58)       |      |                      |   |                                      |                      |
| <b>TOTAL (0.00)</b>                           |      |                      |   |                                      |                      |
| Note:<br>Meter reads were taken on: 3/30/2018 |      |                      |   |                                      |                      |

(\*) The Gibraltar Penstock meter read was adjusted based on a meeting between City Staff and COMB on May 18, 2017

**17-18 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT**

FOR THE MONTH OF **MARCH 2018** AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>

(All in rounded Acre Feet)

|   | <b>MONTH</b> | <b>WYTD</b>    |
|---|--------------|----------------|
| <b>SCC WATER PRODUCTION:</b>            |              |                |
| Cachuma Lake (Tec. Diversion)           | 338.8        | 7,848.3        |
| Tecolote Tunnel Infiltration            | 117.2        | 520.3          |
| Cachuma Lake (County Park)              | 0.2          | 8.4            |
| <b>Subtotal - Water Production</b>      | <b>456.1</b> | <b>8,376.9</b> |
| <b>SCC WATER DELIVERIES:</b>            |              |                |
| State Water Diversion                   | 423.7        | 5,620.9        |
| Cachuma Diversion                       | 11.3         | 2,291.5        |
| So. Coast Storage gain/(loss)           | (14.6)       | 8.3            |
| <b>Subtotal - Water Deliveries</b>      | <b>420.4</b> | <b>7,920.6</b> |
| <b>Total Water Production</b>           | <b>456.1</b> | <b>8,376.9</b> |
| <b>Total Water Deliveries</b>           | <b>420.4</b> | <b>7,920.6</b> |
| <b>Difference = Apparent Water Loss</b> | <b>35.7</b>  | <b>456.3</b>   |
| % Apparent Water Loss                   | 7.84%        | 5.45%          |

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

|   | <b>GWD</b>  | <b>SB CITY</b> | <b>MWD</b>   | <b>CVWD</b>  | <b>TOTAL</b> |
|---|-------------|----------------|--------------|--------------|--------------|
| <b>CURRENT MONTH CHARGE / (ADJUSTMENT) <sup>(2)</sup></b> |             |                |              |              |              |
| M&I   | 0.0         | 0.0            | 0.0          | 0.0          | 0.0          |
| Agriculture   | 0.5         | 0.0            | 0.0          | 0.0          | 0.5          |
| <b>Subtotal Cachuma Project</b>                           | <b>0.5</b>  | <b>0.0</b>     | <b>0.0</b>   | <b>0.0</b>   | <b>0.5</b>   |
| (+) State Water Project                                   | 0.6         | 19.3           | 14.1         | 1.3          | 35.3         |
| <b>Total</b>  | <b>1.1</b>  | <b>19.3</b>    | <b>14.1</b>  | <b>1.3</b>   | <b>35.8</b>  |
| <b>WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)</b>           |             |                |              |              |              |
| M&I   | 9.9         | 0.0            | 0.0          | 37.0         | 46.9         |
| Agriculture   | 6.3         | 0.0            | 0.0          | 49.1         | 55.5         |
| <b>Subtotal Cachuma Project</b>                           | <b>16.2</b> | <b>0.0</b>     | <b>0.0</b>   | <b>86.1</b>  | <b>102.3</b> |
| (+) State Water Project                                   | 16.2        | 142.4          | 180.0        | 15.5         | 354.1        |
| <b>Total</b>  | <b>32.4</b> | <b>142.4</b>   | <b>180.0</b> | <b>101.6</b> | <b>456.4</b> |

**CACHUMA PROJECT WATER CHARGE**

|                                       | <b>GWD</b>     | <b>SB CITY</b> | <b>MWD</b>  | <b>CVWD</b>  | <b>SYRID #1</b> | <b>TOTAL</b>   |
|---------------------------------------|----------------|----------------|-------------|--------------|-----------------|----------------|
| <b>CURRENT MONTH</b>                  |                |                |             |              |                 |                |
| Water Usage                           |                |                |             |              |                 |                |
| M&I                                   | 0.0            | 0.0            | 0.0         | 0.0          | 0.2             | 0.2            |
| Agricultural                          | 11.2           | 0.0            | 0.0         | 0.0          | N/A             | 11.2           |
| <b>Subtotal Project Water Use</b>     | <b>11.2</b>    | <b>0.0</b>     | <b>0.0</b>  | <b>0.0</b>   | <b>0.2</b>      | <b>11.3</b>    |
| (+) Apparent Water Loss               | 0.5            | 0.0            | 0.0         | 0.0          | N/A             | 0.5            |
| (+) Evaporative Loss <sup>(3)</sup>   | 9.6            | 26.5           | 6.7         | 0.1          | 0.1             | 42.9           |
| <b>Total Project Water Charge</b>     | <b>21.2</b>    | <b>26.5</b>    | <b>6.7</b>  | <b>0.1</b>   | <b>0.2</b>      | <b>54.7</b>    |
| <b>WATER YEAR-TO-DATE</b>             |                |                |             |              |                 |                |
| Water Usage                           |                |                |             |              |                 |                |
| M&I                                   | 1,097.3        | 0.0            | 0.0         | 289.3        | 8.4             | 1,394.9        |
| Agricultural                          | 512.9          | 0.0            | 0.0         | 385.7        | N/A             | 898.7          |
| <b>Subtotal Project Water Use</b>     | <b>1,610.2</b> | <b>0.0</b>     | <b>0.0</b>  | <b>675.1</b> | <b>8.4</b>      | <b>2,293.6</b> |
| (+) Apparent Water Loss               | 16.2           | 0.0            | 0.0         | 86.1         | N/A             | 102.3          |
| (+) Evaporative Loss <sup>(3)</sup>   | 106.3          | 198.7          | 50.4        | 18.6         | 0.6             | 374.5          |
| <b>Total Project Water Charge (*)</b> | <b>1,732.7</b> | <b>198.7</b>   | <b>50.4</b> | <b>779.7</b> | <b>9.0</b>      | <b>2,770.4</b> |

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

**17-18 CACHUMA PROJECT ALLOCATION**

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

(All in rounded Acre Feet)

**CACHUMA PROJECT WATER BALANCE AS OF MARCH 2018**

|  | <b>GWD</b>     | <b>SB CITY</b> | <b>MWD</b>     | <b>CVWD</b>    | <b>SYRID #1</b> | <b>TOTAL</b>    |
|--|----------------|----------------|----------------|----------------|-----------------|-----------------|
| <b>Project Water Carryover - 10/1/2016</b>         | 3,088.0        | 3,988.0        | 1,011.0        | 800.0          | 16.0            | 8,903.0         |
| (-) Project Water Charge (WYTD)                    | 1,732.7        | 198.7          | 50.4           | 779.7          | 9.0             | 2,770.4         |
| <b>Balance Carryover Water</b>                     | <b>1,355.3</b> | <b>3,789.3</b> | <b>960.6</b>   | <b>20.3</b>    | <b>7.0</b>      | <b>6,132.6</b>  |
| <b>Current Year Allocation <sup>(4)</sup></b>      | 3,728.0        | 3,311.0        | 1,060.0        | 1,125.0        | 1,060.0         | 10,284.0        |
| (-) Balance of Project Water Charge (WYTD)         | 0.0            | 0.0            | 0.0            | 0.0            | 0.0             | 0.0             |
| <b>Net Allocation Available Before Adjustments</b> | <b>3,728.0</b> | <b>3,311.0</b> | <b>1,060.0</b> | <b>1,125.0</b> | <b>1,060.0</b>  | <b>10,284.0</b> |
| <b>Adjustments to Net Allocation (WYTD)</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>(5)</sup>                | 0.0            | 0.0            | 0.0            | 0.0            | 0.0             | 0.0             |
| Transfers/Adjustment                               | 0.0            | 0.0            | 0.0            | 0.0            | 0.0             | 0.0             |
| <b>Balance Current Year Allocation</b>             | <b>3,728.0</b> | <b>3,311.0</b> | <b>1,060.0</b> | <b>1,125.0</b> | <b>1,060.0</b>  | <b>10,284.0</b> |
| <b>Total Cachuma Project Water Available</b>       | <b>5,083.3</b> | <b>7,100.3</b> | <b>2,020.6</b> | <b>1,145.3</b> | <b>1,067.0</b>  | <b>16,416.6</b> |

**Footnotes**

- (1) Water Year = October 1 through September 30
- (2) Based on an correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted-for water loss based on lake conditions
- (3) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.
- (4) Per USBR, 40% Allocation to Member Agencies, effective 10/1/17
- (5) There were no SWP Exchanges in February 2018  
State Water Deliveries to Lake Cachuma for March 2018 (Total =976 AF): MWD 255 AF; CVWD 70 AF  
GWD 381 AF(Morehart 2 AF); City of S.B. 254 AF; and LaCumbre 10 AF: (Raytheon 4 AF)

**SUMMARY: APPARENT WATER LOSS ALLOCATION**

**March 2018**

|                   | <b>Lauro &amp;<br/>Cater Loss<br/>(LE + CTPL)</b> | <b>Ortega Toe<br/>Drain (OTD)</b> | <b>Use Area 1</b> | <b>Use Area 2</b> | <b>Use Area 3</b> | <b>Use Area 4</b> | <b>Total (AF)</b> | <b>Rounded<br/>Total (AF)</b> |
|-------------------|---|-----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------------|
| <b>GWD</b>        | 0.1   | 0.0                               | 0.3               | 0.7               | 0.0               | 0.0               | 1.1               | <b>1.1</b>                    |
| <b>City of SB</b> | 2.0   | 0.0                               | 1.9               | 14.6              | 0.8               | 0.0               | 19.3              | <b>19.3</b>                   |
| <b>MWD</b>        | 0.7   | 0.5                               | 0.6               | 4.9               | 0.7               | 6.7               | 14.1              | <b>14.1</b>                   |
| <b>CVWD</b>       | 0.0   | 0.5                               | 0.0               | 0.3               | 0.0               | 0.4               | 1.3               | <b>1.3</b>                    |
| <b>Total</b>      | 2.8   | 1.0                               | 2.9               | 20.5              | 1.6               | 7.0               | 35.7              | <b>35.7</b>                   |

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

MONTH: **March 2018**

**GLEN ANNIE RESERVOIR (\*)**

|   |               |      |
|---|---------------|------|
| Capacity at 385' elevation:                   | 518           | AF   |
| Capacity at sill of intake at 334' elevation: | 21            | AF   |
| Stage of Reservoir Elevation                  | <b>336.00</b> | Feet |
| Water in Storage                              | 30.92         | 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>544.70</b> | Feet |
| Water in Storage                                  | 504.03        | AF   |

**ORTEGA RESERVOIR**

|                                       |               |      |
|---------------------------------------|---------------|------|
| Capacity at 460' elevation:           | 65            | AF   |
| Capacity at outlet at elevation 440': | 0             | AF   |
| Stage of Reservoir Elevation          | <b>447.20</b> | Feet |
| Water in Storage                      | 20.16         | AF   |

**CARPINTERIA RESERVOIR**

|                                    |               |      |
|------------------------------------|---------------|------|
| Capacity at 384' elevation:        | 45            | AF   |
| Capacity at outlet elevation 362': | 0             | AF   |
| Stage of Reservoir Elevation       | <b>378.80</b> | Feet |
| Water in Storage                   | 32.16         | AF   |

**TOTAL STORAGE IN RESERVOIRS (\*)**

|                   |         |    |
|-------------------|---------|----|
| Change in Storage | 556.34  | AF |
|                   | (18.73) | AF |

**CACHUMA RESERVOIR\***

|  |         |    |
|--|---------|----|
| Capacity at 750' elevation:                | 184,121 | AF |
| Capacity at sill of tunnel 660' elevation: | 24,281  | AF |

|                              |                |      |
|------------------------------|----------------|------|
| Stage of Reservoir Elevation | <b>703.44</b>  | Feet |
| Water in Storage             | <b>77,783</b>  | AF   |
| Surface Area                 | 1,659          |      |
| Evaporation                  | <b>359.9</b>   | AF   |
| Inflow                       | <b>2,022.2</b> | AF   |
| Downstream Release WR8918    | 0.0            | AF   |
| Fish Release (Hilton Creek)  | 142.0          | AF   |
| Outlet                       | 69.0           | AF   |
| <b>Spill/Seismic Release</b> | 0              | AF   |
| State Water Project Water    | <b>934.8</b>   | AF   |
| Change in Storage            | <b>2,709</b>   | AF   |
| Tecolote Diversion           | <b>338.8</b>   | AF   |

|                  |               |      |                |                           |     |
|------------------|---------------|------|----------------|---------------------------|-----|
| <b>Rainfall:</b> | <b>Month:</b> | 9.28 | <b>Season:</b> | <b>Percent of Normal:</b> | 52% |
|------------------|---------------|------|----------------|---------------------------|-----|

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



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

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

(\*) Adj / Notes:  
 January 2017 - GWD transferred 18.12 AF SWP water to City of SB per overlap agreement  
 August 2017 - Includes credit adjustment for water loss charged to South Coast Member Units (Mar - Jul) based email from Michael Jackson, dated 09/15/17, which revised the approach to the assess for unaccounted-for water loss based on lake conditions.

| Month        | Total Delivered to Lake per CCWA | CVWD                  |                     |          |                  |               |                | MWD                   |                     |           |                  |               |                | CITY OF SB            |                     |           |                  |               |                | GWD                   |                     |          |                  |               |                | LCMWC                 |                     |          |                  | RSYS          |                |                       | MLC                 |          |                  |               |                |  |  |  |  |   |
|--------------|----------------------------------|-----------------------|---------------------|----------|------------------|---------------|----------------|-----------------------|---------------------|-----------|------------------|---------------|----------------|-----------------------|---------------------|-----------|------------------|---------------|----------------|-----------------------|---------------------|----------|------------------|---------------|----------------|-----------------------|---------------------|----------|------------------|---------------|----------------|-----------------------|---------------------|----------|------------------|---------------|----------------|--|--|--|--|---|
|              |                                  | Delivered to Lake (+) | Delivered to SC (-) | Loss (-) | Evap / Spill (-) | Adj (*) (+/-) | Stored in Lake | Delivered to Lake (+) | Delivered to SC (-) | Loss (-)  | Evap / Spill (-) | Adj (*) (+/-) | Stored in Lake | Delivered to Lake (+) | Delivered to SC (-) | Loss (-)  | Evap / Spill (-) | Adj (*) (+/-) | Stored in Lake | Delivered to Lake (+) | Delivered to SC (-) | Loss (-) | Evap / Spill (-) | Adj (*) (+/-) | Stored in Lake | Delivered to Lake (+) | Delivered to SC (-) | Loss (-) | Evap / Spill (-) | Adj (*) (+/-) | Stored in Lake | Delivered to Lake (+) | Delivered to SC (-) | Loss (-) | Evap / Spill (-) | Adj (*) (+/-) | Stored in Lake |  |  |  |  |   |
| <b>2018</b>  |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| Bal. Frwd    |                                  |                       |                     |          |                  | 0             |                |                       |                     |           |                  | 630           |                |                       |                     |           |                  | 1667          |                |                       |                     |          |                  | 0             |                |                       |                     |          |                  | 62            |                |                       |                     |          |                  | 12            |                |  |  |  |  | 0 |
| January      | 1275                             | 201                   | 31                  | 3        | (0)              | 0             | 167            | 270                   | 219                 | 18        | 4                | 0             | 659            | 301                   | 346                 | 16        | 11               | 0             | 1595           | 452                   | 387                 | 2        | (0)              | 0             | 62             | 49                    | 30                  | 0        | 80               | 0             | 0              | 12                    | 2                   | 2        | 2                | 0             |                |  |  |  |  |   |
| February     | 1142                             | 169                   | 20                  | 3        | 1                | 0             | 311            | 253                   | 257                 | 35        | 5                | 0             | 614            | 253                   | 367                 | 29        | 13               | 0             | 1440           | 380                   | 146                 | 3        | 1                | 0             | 293            | 85                    | 52                  | 1        | 113              | 0             | 0              | 12                    | 2                   | 2        | 0                |               |                |  |  |  |  |   |
| March        | 976                              | 70                    | 6                   | 1        | 2                | 0             | 372            | 255                   | 98                  | 14        | 4                | 0             | 753            | 254                   | 291                 | 19        | 10               | 0             | 1373           | 381                   | 9                   | 1        | 2                | 0             | 663            | 10                    | 15                  | 1        | 107              | 4             | 4              | 12                    | 2                   | 2        | 0                |               |                |  |  |  |  |   |
| April        |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| May          |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| June         |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| July         |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| August (*)   |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| September    |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| October      |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| November     |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| December     |                                  |                       |                     |          |                  |               |                |                       |                     |           |                  |               |                |                       |                     |           |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |                       |                     |          |                  |               |                |  |  |  |  |   |
| <b>Total</b> | <b>3393</b>                      | <b>440</b>            | <b>57</b>           | <b>8</b> | <b>4</b>         | <b>0</b>      | <b>372</b>     | <b>778</b>            | <b>574</b>          | <b>67</b> | <b>14</b>        | <b>0</b>      | <b>753</b>     | <b>808</b>            | <b>1004</b>         | <b>64</b> | <b>34</b>        | <b>0</b>      | <b>1373</b>    | <b>1213</b>           | <b>542</b>          | <b>6</b> | <b>3</b>         | <b>0</b>      | <b>663</b>     | <b>144</b>            | <b>97</b>           | <b>2</b> | <b>107</b>       | <b>4</b>      | <b>4</b>       | <b>12</b>             | <b>6</b>            | <b>6</b> | <b>0</b>         |               |                |  |  |  |  |   |

(\*) Adj / Notes:  
 Total SC Storage at month end (AF): 3161  
 Total Storage at month end (AF): 3280

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

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

Contract Entity: **Goleta Water District**  
 Last updated by C.O.M.B. 03/31/18

| Month        | Carryover Balance |                | Approved Allocation |              | CARRYOVER WATER |                   |                | CURRENT YEAR ALLOCATION |                   |              |            |            |
|--------------|-------------------|----------------|---------------------|--------------|-----------------|-------------------|----------------|-------------------------|-------------------|--------------|------------|------------|
|              | Prior Yr          | Curr Yr        | TOTAL WATER USED    |              |                 | WATER USE CHARGED |                |                         | WATER USE CHARGED |              |            |            |
|              |                   |                | Acre-feet           |              |                 | Allocation        |                |                         | Allocation        |              |            |            |
|              | M & I             | Agr            | Total               | Evap         | Used            | Total             | M & I          | Agr                     | M & I             | Agr          | Total      |            |
| Oct          | 3,088.0           | 3,728.0        | 570.6               | 170.4        | 741.1           | 45.1              | 741.1          | 786.2                   | 605.4             | 180.8        | 0.0        | 0.0        |
| Nov          |                   |                | 434.3               | 160.6        | 595.0           | 17.8              | 595.0          | 612.8                   | 447.3             | 165.5        | 0.0        | 0.0        |
| Dec          |                   |                | 102.2               | 35.9         | 138.1           | 11.2              | 138.1          | 149.3                   | 110.5             | 38.8         | 0.0        | 0.0        |
| Jan          |                   |                | 0.0                 | 42.6         | 42.6            | 10.4              | 42.6           | 53.0                    | 0.0               | 53.0         | 0.0        | 0.0        |
| Feb          |                   |                | 0.0                 | 98.0         | 98.0            | 12.2              | 98.0           | 110.2                   | 0.0               | 110.2        | 0.0        | 0.0        |
| Mar          |                   |                | 0.0                 | 11.6         | 11.6            | 9.6               | 11.6           | 21.2                    | 0.0               | 21.2         | 0.0        | 0.0        |
| Apr          |                   |                | -                   | -            | -               | -                 | -              | -                       | -                 | -            | -          | -          |
| May          |                   |                | -                   | -            | -               | -                 | -              | -                       | -                 | -            | -          | -          |
| Jun          |                   |                | -                   | -            | -               | -                 | -              | -                       | -                 | -            | -          | -          |
| Jul          |                   |                | -                   | -            | -               | -                 | -              | -                       | -                 | -            | -          | -          |
| Aug          |                   |                | -                   | -            | -               | -                 | -              | -                       | -                 | -            | -          | -          |
| Sep          |                   |                | -                   | -            | -               | -                 | -              | -                       | -                 | -            | -          | -          |
| <b>Total</b> | <b>3,088.0</b>    | <b>3,728.0</b> | <b>1,107.2</b>      | <b>519.3</b> | <b>1,626.5</b>  | <b>106.3</b>      | <b>1,626.5</b> | <b>1,732.7</b>          | <b>1,163.2</b>    | <b>569.5</b> | <b>0.0</b> | <b>0.0</b> |

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

| Month     | SCHEDULE AND REVISIONS |            |         | SCHEDULE AND REVISIONS |         |         |
|-----------|------------------------|------------|---------|------------------------|---------|---------|
|           | Total                  | Allocation |         | Allocation             |         | Total   |
|           |                        | M & I      | Agr     | M & I                  | Agr     |         |
| Begin Bal | 3,088.0                | 1,976.0    | 1,112.0 | 2,609.0                | 1,119.0 | 3,728.0 |
| Oct       | -                      | -          | -       | -                      | -       | -       |
| Nov       | -                      | -          | -       | -                      | -       | -       |
| Dec       | -                      | -          | -       | -                      | -       | -       |
| Jan       | -                      | -          | -       | -                      | -       | -       |
| Feb       | -                      | -          | -       | -                      | -       | -       |
| Mar       | -                      | -          | -       | -                      | -       | -       |
| Apr       | -                      | -          | -       | -                      | -       | -       |
| May       | -                      | -          | -       | -                      | -       | -       |
| Jun       | -                      | -          | -       | -                      | -       | -       |
| Jul       | -                      | -          | -       | -                      | -       | -       |
| Aug       | -                      | -          | -       | -                      | -       | -       |
| Sep       | -                      | -          | -       | -                      | -       | -       |

| Month | BALANCE - CARRYOVER WATER |            |       | BALANCE - CURR YR ALLOC |         |         |
|-------|---------------------------|------------|-------|-------------------------|---------|---------|
|       | Total                     | Allocation |       | Allocation              |         | Total   |
|       |                           | M & I      | Agr   | M & I                   | Agr     |         |
| Oct   | 2,301.8                   | 1,370.6    | 931.2 | 2,609.0                 | 1,119.0 | 3,728.0 |
| Nov   | 1,689.0                   | 923.3      | 765.7 | 2,609.0                 | 1,119.0 | 3,728.0 |
| Dec   | 1,539.7                   | 812.8      | 726.9 | 2,609.0                 | 1,119.0 | 3,728.0 |
| Jan   | 1,486.7                   | 812.8      | 673.9 | 2,609.0                 | 1,119.0 | 3,728.0 |
| Feb   | 1,376.5                   | 812.8      | 563.7 | 2,609.0                 | 1,119.0 | 3,728.0 |
| Mar   | 1,355.3                   | 812.8      | 542.5 | 2,609.0                 | 1,119.0 | 3,728.0 |
| Apr   | -                         | -          | -     | -                       | -       | -       |
| May   | -                         | -          | -     | -                       | -       | -       |
| Jun   | -                         | -          | -     | -                       | -       | -       |
| Jul   | -                         | -          | -     | -                       | -       | -       |
| Aug   | -                         | -          | -     | -                       | -       | -       |
| Sep   | -                         | -          | -     | -                       | -       | -       |

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 5,083.3**



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

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

Contract Entity: **Carpinteria Valley Water District**  
 Last updated by C.O.M.B. 03/31/18

|                        |                                |
|------------------------|--------------------------------|
| <b>CARRYOVER WATER</b> | <b>CURRENT YEAR ALLOCATION</b> |
|------------------------|--------------------------------|

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

| Month        | TOTAL WATER CHARGED |       |       | WATER USE CHARGED |       |       | WATER USE CHARGED |       |       |     |       |
|--------------|---------------------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|-----|-------|
|              | Acre-feet           |       |       | Allocation        |       |       | Allocation        |       |       |     |       |
|              | M & I               | Agr   | Total | Evap              | Used  | Total | M & I             | Agr   | M & I | Agr | Total |
| Oct          | 85.9                | 121.2 | 207.1 | 11.7              | 207.1 | 218.8 | 90.7              | 128.1 | 0.0   | 0.0 | 0.0   |
| Nov          | 125.0               | 155.3 | 280.3 | 4.5               | 280.3 | 284.8 | 127.0             | 157.8 | 0.0   | 0.0 | 0.0   |
| Dec          | 115.4               | 158.4 | 273.7 | 2.0               | 273.7 | 275.7 | 116.2             | 159.5 | 0.0   | 0.0 | 0.0   |
| Jan          | 0.0                 | 0.0   | 0.0   | 0.1               | 0.0   | 0.1   | 0.0               | 0.1   | 0.0   | 0.0 | 0.0   |
| Feb          | 0.0                 | 0.0   | 0.0   | 0.2               | 0.0   | 0.2   | 0.0               | 0.2   | 0.0   | 0.0 | 0.0   |
| Mar          | 0.0                 | 0.0   | 0.0   | 0.1               | 0.0   | 0.1   | 0.0               | 0.1   | 0.0   | 0.0 | 0.0   |
| Apr          | -                   | -     | -     | -                 | -     | -     | -                 | -     | -     | -   | -     |
| May          | -                   | -     | -     | -                 | -     | -     | -                 | -     | -     | -   | -     |
| Jun          | -                   | -     | -     | -                 | -     | -     | -                 | -     | -     | -   | -     |
| Jul          | -                   | -     | -     | -                 | -     | -     | -                 | -     | -     | -   | -     |
| Aug          | -                   | -     | -     | -                 | -     | -     | -                 | -     | -     | -   | -     |
| Sep          | -                   | -     | -     | -                 | -     | -     | -                 | -     | -     | -   | -     |
| <b>Total</b> | 326.3               | 434.9 | 761.1 | 18.6              | 761.1 | 779.7 | 334.0             | 445.8 | -     | -   | -     |

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

| Month     | SCHEDULE AND REVISIONS |            |       | SCHEDULE AND REVISIONS |       |         |
|-----------|------------------------|------------|-------|------------------------|-------|---------|
|           | Total                  | Allocation |       | Allocation             |       | Total   |
|           |                        | M & I      | Agr   | M & I                  | Agr   |         |
| Begin Bal | 800.0                  | 340.0      | 460.0 | 518.0                  | 607.0 | 1,125.0 |
| Oct       | -                      | -          | -     | -                      | -     | -       |
| Nov       | -                      | -          | -     | -                      | -     | -       |
| Dec       | -                      | -          | -     | -                      | -     | -       |
| Jan       | -                      | -          | -     | -                      | -     | -       |
| Feb       | -                      | -          | -     | -                      | -     | -       |
| Mar       | -                      | -          | -     | -                      | -     | -       |
| Apr       | -                      | -          | -     | -                      | -     | -       |
| May       | -                      | -          | -     | -                      | -     | -       |
| Jun       | -                      | -          | -     | -                      | -     | -       |
| Jul       | -                      | -          | -     | -                      | -     | -       |
| Aug       | -                      | -          | -     | -                      | -     | -       |
| Sep       | -                      | -          | -     | -                      | -     | -       |

| Month | BALANCE - CARRYOVER WATER |            |       | BALANCE - CURR YR ALLOC |       |         |
|-------|---------------------------|------------|-------|-------------------------|-------|---------|
|       | Total                     | Allocation |       | Allocation              |       | Total   |
|       |                           | M & I      | Agr   | M & I                   | Agr   |         |
| Oct   | 581.2                     | 249.3      | 331.9 | 518.0                   | 607.0 | 1,125.0 |
| Nov   | 296.4                     | 122.2      | 174.2 | 518.0                   | 607.0 | 1,125.0 |
| Dec   | 20.7                      | 6.0        | 14.7  | 518.0                   | 607.0 | 1,125.0 |
| Jan   | 20.6                      | 6.0        | 14.5  | 518.0                   | 607.0 | 1,125.0 |
| Feb   | 20.4                      | 6.0        | 14.4  | 518.0                   | 607.0 | 1,125.0 |
| Mar   | 20.3                      | 6.0        | 14.2  | 518.0                   | 607.0 | 1,125.0 |
| Apr   | -                         | -          | -     | -                       | -     | -       |
| May   | -                         | -          | -     | -                       | -     | -       |
| Jun   | -                         | -          | -     | -                       | -     | -       |
| Jul   | -                         | -          | -     | -                       | -     | -       |
| Aug   | -                         | -          | -     | -                       | -     | -       |
| Sep   | -                         | -          | -     | -                       | -     | -       |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 1,145.3

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

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

Contract Entity: **Montecito Water District**  
 Last updated by C.O.M.B. 03/31/18

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

| Month        | TOTAL WATER USED |     |       | WATER USE CHARGED |      |       | WATER USE CHARGED |      |            | Total |     |
|--------------|------------------|-----|-------|-------------------|------|-------|-------------------|------|------------|-------|-----|
|              | Acre-feet        |     |       | Evap              | Used | Total | Allocation        |      | Allocation |       |     |
|              | M & I            | Agr | Total |                   |      |       | M & I             | Agr  | M & I      |       | Agr |
| Oct          | 0.0              | 0.0 | 0.0   | 14.8              | -    | 14.78 | 11.6              | 3.2  | 0.0        | 0.0   | 0.0 |
| Nov          | 0.0              | 0.0 | 0.0   | 7.7               | -    | 7.7   | 6.0               | 1.7  | 0.0        | 0.0   | 0.0 |
| Dec          | 0.0              | 0.0 | 0.0   | 6.6               | -    | 6.6   | 5.2               | 1.4  | 0.0        | 0.0   | 0.0 |
| Jan          | 0.0              | 0.0 | 0.0   | 6.6               | -    | 6.6   | 5.2               | 1.4  | 0.0        | 0.0   | 0.0 |
| Feb          | 0.0              | 0.0 | 0.0   | 8.0               | -    | 8.0   | 6.3               | 1.7  | 0.0        | 0.0   | 0.0 |
| Mar          | 0.0              | 0.0 | 0.0   | 6.7               | -    | 6.7   | 5.3               | 1.4  | 0.0        | 0.0   | 0.0 |
| Apr          | -                | -   | -     | -                 | -    | -     | -                 | -    | -          | -     | -   |
| May          | -                | -   | -     | -                 | -    | -     | -                 | -    | -          | -     | -   |
| Jun          | -                | -   | -     | -                 | -    | -     | -                 | -    | -          | -     | -   |
| Jul          | -                | -   | -     | -                 | -    | -     | -                 | -    | -          | -     | -   |
| Aug          | -                | -   | -     | -                 | -    | -     | -                 | -    | -          | -     | -   |
| Sep          | -                | -   | -     | -                 | -    | -     | -                 | -    | -          | -     | -   |
| <b>Total</b> | -                | -   | -     | 50.4              | -    | 50.4  | 39.6              | 10.8 | -          | -     | -   |

| 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     |
| Begin Bal | 1,011.0                | 794.0 | 217.0      | 986.0                  | 74.0       | 1,060.0 |
| Oct       |                        |       |            | -                      | -          | -       |
| Nov       |                        |       |            | -                      | -          | -       |
| Dec       |                        |       |            | -                      | -          | -       |
| Jan       |                        |       |            | -                      | -          | -       |
| Feb       |                        |       |            | -                      | -          | -       |
| Mar       |                        |       |            | -                      | -          | -       |
| Apr       |                        |       |            | -                      | -          | -       |
| May       |                        |       |            | -                      | -          | -       |
| Jun       |                        |       |            | -                      | -          | -       |
| Jul       |                        |       |            | -                      | -          | -       |
| Aug       |                        |       |            | -                      | -          | -       |
| Sep       |                        |       |            | -                      | -          | -       |

| Month | BALANCE - CARRYOVER WATER |            |       | BALANCE - CURR YR ALLOC |      |         |
|-------|---------------------------|------------|-------|-------------------------|------|---------|
|       | Total                     | Allocation |       | Allocation              |      | Total   |
|       |                           | M & I      | Agr   | M & I                   | Agr  |         |
| Oct   | 996.2                     | 782.4      | 213.8 | 986.0                   | 74.0 | 1,060.0 |
| Nov   | 988.5                     | 776.3      | 212.2 | 986.0                   | 74.0 | 1,060.0 |
| Dec   | 982.0                     | 771.2      | 210.8 | 986.0                   | 74.0 | 1,060.0 |
| Jan   | 975.3                     | 766.0      | 209.3 | 986.0                   | 74.0 | 1,060.0 |
| Feb   | 967.4                     | 759.7      | 207.6 | 986.0                   | 74.0 | 1,060.0 |
| Mar   | 960.6                     | 754.4      | 206.2 | 986.0                   | 74.0 | 1,060.0 |
| Apr   |                           |            |       |                         |      |         |
| May   |                           |            |       |                         |      |         |
| Jun   |                           |            |       |                         |      |         |
| Jul   |                           |            |       |                         |      |         |
| Aug   |                           |            |       |                         |      |         |
| Sep   |                           |            |       |                         |      |         |

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION)** 2,020.6

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

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

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**  
 Last updated by **C.O.M.B. 03/31/18**

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

| TOTAL WATER USED |            |            | WATER USE CHARGED |            |            |            | WATER USE CHARGED |            |            |            |
|------------------|------------|------------|-------------------|------------|------------|------------|-------------------|------------|------------|------------|
| M & I            | Agr        | Total      | Evap              | Used       | Total      | Allocation |                   | Allocation |            | Total      |
|                  |            |            |                   |            |            | M & I      | Agr               | M & I      | Agr        |            |
| 2.4              | 0.0        | 2.4        | 0.2               | 2.4        | 2.6        | 2.6        | 0.0               | 0.0        | 0.0        | 0.0        |
| 1.2              | 0.0        | 1.2        | 0.1               | 1.2        | 1.3        | 1.3        | 0.0               | 0.0        | 0.0        | 0.0        |
| 2.4              | 0.0        | 2.4        | 0.1               | 2.4        | 2.4        | 2.4        | 0.0               | 0.0        | 0.0        | 0.0        |
| 0.9              | 0.0        | 0.9        | 0.1               | 0.9        | 1.0        | 1.0        | 0.0               | 0.0        | 0.0        | 0.0        |
| 1.3              | 0.0        | 1.3        | 0.1               | 1.3        | 1.4        | 1.4        | 0.0               | 0.0        | 0.0        | 0.0        |
| 0.2              | 0.0        | 0.2        | 0.1               | 0.2        | 0.2        | 0.2        | 0.0               | 0.0        | 0.0        | 0.0        |
| -                | -          | -          | -                 | -          | -          | -          | -                 | -          | -          | -          |
| -                | -          | -          | -                 | -          | -          | -          | -                 | -          | -          | -          |
| -                | -          | -          | -                 | -          | -          | -          | -                 | -          | -          | -          |
| -                | -          | -          | -                 | -          | -          | -          | -                 | -          | -          | -          |
| -                | -          | -          | -                 | -          | -          | -          | -                 | -          | -          | -          |
| -                | -          | -          | -                 | -          | -          | -          | -                 | -          | -          | -          |
| <b>8.4</b>       | <b>0.0</b> | <b>8.4</b> | <b>0.6</b>        | <b>8.4</b> | <b>9.0</b> | <b>9.0</b> | <b>0.0</b>        | <b>0.0</b> | <b>0.0</b> | <b>0.0</b> |

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

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| SCHEDULE AND REVISIONS |       |            | SCHEDULE AND REVISIONS |            |       |         |
|------------------------|-------|------------|------------------------|------------|-------|---------|
|                        | Total | Allocation |                        | Allocation |       | Total   |
|                        |       | M & I      | Agr                    | M & I      | Agr   |         |
| Begin Bal              | 16.0  | 0.0        | 16.0                   | 710.0      | 350.0 | 1,060.0 |
| Oct                    | -     | -          | -                      | -          | -     | -       |
| Nov                    | -     | -          | -                      | -          | -     | -       |
| Dec                    | -     | -          | -                      | -          | -     | -       |
| Jan                    | -     | -          | -                      | -          | -     | -       |
| Feb                    | -     | -          | -                      | -          | -     | -       |
| Mar                    | -     | -          | -                      | -          | -     | -       |
| Apr                    | -     | -          | -                      | -          | -     | -       |
| May                    | -     | -          | -                      | -          | -     | -       |
| Jun                    | -     | -          | -                      | -          | -     | -       |
| Jul                    | -     | -          | -                      | -          | -     | -       |
| Aug                    | -     | -          | -                      | -          | -     | -       |
| Sep                    | -     | -          | -                      | -          | -     | -       |

\*NOTE:

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| BALANCE - CARRYOVER WATER |       |            | BALANCE - CURR YR ALLOC |            |       |         |
|---------------------------|-------|------------|-------------------------|------------|-------|---------|
| County Parks Usage (AF)   | Total | Allocation |                         | Allocation |       | Total   |
|                           |       | M & I      | Agr                     | M & I      | Agr   |         |
| Oct                       | 2.4   | -          | 13.4                    | 710.0      | 350.0 | 1,060.0 |
| Nov                       | 1.2   | -          | 12.0                    | 710.0      | 350.0 | 1,060.0 |
| Dec                       | 2.4   | -          | 9.6                     | 710.0      | 350.0 | 1,060.0 |
| Jan                       | 0.9   | -          | 8.6                     | 710.0      | 350.0 | 1,060.0 |
| Feb                       | 1.3   | -          | 7.2                     | 710.0      | 350.0 | 1,060.0 |
| Mar                       | 0.2   | -          | 7.0                     | 710.0      | 350.0 | 1,060.0 |
| Apr                       | -     | -          | -                       | -          | -     | -       |
| May                       | -     | -          | -                       | -          | -     | -       |
| Jun                       | -     | -          | -                       | -          | -     | -       |
| Jul                       | -     | -          | -                       | -          | -     | -       |
| Aug                       | -     | -          | -                       | -          | -     | -       |
| Sep                       | -     | -          | -                       | -          | -     | -       |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **1,067.0**

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

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

Contract Entity: **Santa Barbara Co. Water Agency**  
 Last updated by C.O.M.B. 03/31/18

| Month        | CARRYOVER WATER            |                             | CURRENT YEAR ALLOCATION |                |              |                |                   |                |                |                |                   |            |            |            |
|--------------|----------------------------|-----------------------------|-------------------------|----------------|--------------|----------------|-------------------|----------------|----------------|----------------|-------------------|------------|------------|------------|
|              | Carryover Balance Prior Yr | Approved Allocation Curr Yr | TOTAL WATER USED        |                |              |                | WATER USE CHARGED |                |                |                | WATER USE CHARGED |            |            |            |
|              |                            |                             | Acre-feet               |                |              |                | Allocation        |                |                | Allocation     |                   |            |            |            |
|              |                            |                             | Use %                   | M & I          | Agr          | Total          | Evap              | Div            | Total          | M & I          | Agr               | M & I      | Agr        | Total      |
| Oct          | 8,903.0                    | 10,284.0                    | 0.1                     | 658.9          | 291.7        | 950.6          | 130.2             | 950.6          | 1,080.8        | 768.7          | 312.1             | 0.0        | 0.0        | 0.0        |
| Nov          |                            |                             | 0.0                     | 560.6          | 315.9        | 876.5          | 60.5              | 876.5          | 937.0          | 612.1          | 324.9             | 0.0        | 0.0        | 0.0        |
| Dec          |                            |                             | 0.0                     | 219.9          | 194.3        | 414.2          | 45.7              | 414.2          | 459.9          | 260.1          | 199.7             | 0.0        | 0.0        | 0.0        |
| Jan          |                            |                             | 0.0                     | 0.9            | 0.0          | 43.5           | 43.3              | 43.5           | 86.8           | 32.2           | 54.5              | 0.0        | 0.0        | 0.0        |
| Feb          |                            |                             | 0.0                     | 1.3            | 98.0         | 99.3           | 52.0              | 99.3           | 151.3          | 39.2           | 112.1             | 0.0        | 0.0        | 0.0        |
| Mar          |                            |                             | 0.0                     | 0.2            | 11.6         | 11.8           | 42.9              | 11.8           | 54.7           | 32.0           | 22.8              | 0.0        | 0.0        | 0.0        |
| Apr          |                            |                             | -                       | -              | -            | -              | -                 | -              | -              | -              | -                 | -          | -          | -          |
| May          |                            |                             | -                       | -              | -            | -              | -                 | -              | -              | -              | -                 | -          | -          | -          |
| Jun          |                            |                             | -                       | -              | -            | -              | -                 | -              | -              | -              | -                 | -          | -          | -          |
| Jul          |                            |                             | -                       | -              | -            | -              | -                 | -              | -              | -              | -                 | -          | -          | -          |
| Aug          |                            |                             | -                       | -              | -            | -              | -                 | -              | -              | -              | -                 | -          | -          | -          |
| Sep          |                            |                             | -                       | -              | -            | -              | -                 | -              | -              | -              | -                 | -          | -          | -          |
| <b>Total</b> | <b>8,903.0</b>             | <b>10,284.0</b>             | <b>0.1</b>              | <b>1,441.8</b> | <b>954.1</b> | <b>2,396.0</b> | <b>374.5</b>      | <b>2,396.0</b> | <b>2,770.4</b> | <b>1,744.4</b> | <b>1,026.1</b>    | <b>0.0</b> | <b>0.0</b> | <b>0.0</b> |

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

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| Month     | SCHEDULE AND REVISIONS |            |         | SCHEDULE AND REVISIONS |         |          |
|-----------|------------------------|------------|---------|------------------------|---------|----------|
|           | Total                  | Allocation |         | Allocation             |         | Total    |
|           |                        | M & I      | Agr     | M & I                  | Agr     |          |
| Begin Bal | 8,903.0                | 7,098.0    | 1,805.0 | 8,134.0                | 2,150.0 | 10,284.0 |
| Oct       | -                      | -          | -       | -                      | -       | -        |
| Nov       | -                      | -          | -       | -                      | -       | -        |
| Dec       | -                      | -          | -       | -                      | -       | -        |
| Jan       | -                      | -          | -       | -                      | -       | -        |
| Feb       | -                      | -          | -       | -                      | -       | -        |
| Mar       | -                      | -          | -       | -                      | -       | -        |
| Apr       | -                      | -          | -       | -                      | -       | -        |
| May       | -                      | -          | -       | -                      | -       | -        |
| Jun       | -                      | -          | -       | -                      | -       | -        |
| Jul       | -                      | -          | -       | -                      | -       | -        |
| Aug       | -                      | -          | -       | -                      | -       | -        |
| Sep       | -                      | -          | -       | -                      | -       | -        |

| Month | BALANCE - CARRYOVER WATER |            |         | BALANCE - CURR YR ALLOC |         |         |          |
|-------|---------------------------|------------|---------|-------------------------|---------|---------|----------|
|       | County Parks Usage (AF)   | Allocation |         | Allocation              |         | Total   |          |
|       |                           | Total      | M & I   | Agr                     | M & I   |         | Agr      |
| Oct   | 2.4                       | 7,822.2    | 6,332.0 | 1,490.3                 | 8,134.0 | 2,150.0 | 10,284.0 |
| Nov   | 1.2                       | 6,885.3    | 5,721.1 | 1,164.1                 | 8,134.0 | 2,150.0 | 10,284.0 |
| Dec   | 2.4                       | 6,425.4    | 5,463.4 | 961.9                   | 8,134.0 | 2,150.0 | 10,284.0 |
| Jan   | 0.9                       | 6,338.6    | 5,432.2 | 906.4                   | 8,134.0 | 2,150.0 | 10,284.0 |
| Feb   | 1.3                       | 6,187.3    | 5,394.3 | 792.9                   | 8,134.0 | 2,150.0 | 10,284.0 |
| Mar   | 0.2                       | 6,132.6    | 5,362.6 | 770.0                   | 8,134.0 | 2,150.0 | 10,284.0 |
| Apr   | -                         | -          | -       | -                       | -       | -       | -        |
| May   | -                         | -          | -       | -                       | -       | -       | -        |
| Jun   | -                         | -          | -       | -                       | -       | -       | -        |
| Jul   | -                         | -          | -       | -                       | -       | -       | -        |
| Aug   | -                         | -          | -       | -                       | -       | -       | -        |
| Sep   | -                         | -          | -       | -                       | -       | -       | -        |

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **16,416.6**







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



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

| <b>Cachuma Lake Recreation Area<br/>Launch Data -- March 2018</b> |     |     |
|---|-----|-----|
| <b>Inspection Data</b>  |     |     |
| Total Vessels entering Park                                       | 308 |     |
| Total Vessels launched  | 271 |     |
| Total Vessels Quarantined   | 37  |     |
| Returning with Boat Launch Tag                                    | 198 | 73% |
| New: Removed from Quarantine                                      | *   |     |
| Kayak/Canoe: Inspected, launched                                  | 73  | 27% |
| 4-stroke Engines  | *   |     |
| 2-strokes, w/CARB star ratings                                    | *   |     |
| 2-strokes, NO emissions ratings                                   | *   |     |
| <b>Quarantine Data</b>  |     |     |
| Total Vessels Quarantined   | 37  |     |
| Quarantined 7 days  | *   |     |
| Quarantined 14 days   | *   |     |
| Quarantined 30 days   | 37  |     |
| <b>Quarantine Cause</b>   |     |     |
| Water on vessel*  | *   |     |
| Debris on hull*   | *   |     |
| Plug installed*   | *   |     |
| From infected county  | 6   |     |
| Ballast tanks*  | *   |     |
| Boat longer than 24 feet*   | *   |     |
| Out-of-state  | 0   |     |
| Unspecified*  | *   |     |
| Mandatory Quarantine All Untagged Boats                           | 37  |     |
| <b>Demographic Data</b>   |     |     |
| Quarantined from infected county                                  | 6   |     |
| Quarantined from SB County  | 26  |     |
| Quarantined from uninfected co                                    | 5   |     |

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

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

\* These conditions are no longer being tracked.

**EARLY DETECTION MONITORING PROGRAM SUMMARY**

**Summary:** No Dreissenid mussels were detected  
 Inspection Site: Cachuma Lake, Santa Barbara County, California  
 Inspection Date and Time: 2018.03.31; 1:00 –3:00 PDT  
 Method: 10 PVC/Cement Sampling Stations; 52 linear feet of line  
 Surveyors: John Viggianelli (SBCO Parks)  
 Lake elevation: Max feet: 753.00, current 703.44; Max acre-feet: 193,305, current: 77,782;  
 Current capacity: 40.2%