

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

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

Monday, August 22, 2016

2:00 P.M.

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 July 25, 2016 Regular Board Meeting
 - b. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
 - d. Review of Pending Claims for Payment
4. **VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Fisheries Committee Meeting – August 18, 2016
5. **GENERAL MANAGER REPORT**
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
 - Administrative Policy
 - U.S. Bureau of Reclamation Scheduled Reviews
 - Operations Division
 - Fisheries Division
6. **OPERATIONS DIVISION REPORT**
Receive information regarding Operations Division, including but not limited to the following:
 - Lake Cachuma Operations
 - Operation and Maintenance Activities

7. **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

8. **QUIOTA CREEK CROSSING 4 FISH PASSAGE IMPROVEMENT PROJECT**
Receive information for discussion and possible action by motion and roll call vote of the Board

9. **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

10. **MONTHLY CACHUMA PROJECT REPORTS**
Receive information regarding the Cachuma Project, including but not limited to the following:
 - a. Cachuma Water Reports
 - b. Cachuma Reservoir Current Conditions
 - c. Lake Cachuma Quagga Survey

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

12. **MEETING SCHEDULE**
 - **September 26, 2016 at 2:00 P.M., COMB Office**
 - **Board Packages Available on COMB Website**
www.cachuma-board.org

13. **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 & MAINTENANCE BOARD**

held at
3301 Laurel Canyon Road, Santa Barbara, CA
Monday, July 25, 2016

1. Call to Order, Roll Call

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

Directors present:

Doug Morgan	Montecito Water District
Harwood “Bendy” White	City of Santa Barbara
Polly Holcombe	Carpinteria Valley Water District
Lauren Hanson	Goleta Water District

Others present:

Janet Gingras	Amy Smith
Dave Stewart	Kimberly Cherry
Adelle Capponi	Fray Crease
Tim Robinson	Nic Elmquist
Bob McDonald	Darren Burge
Dale Francisco	Daniel Razo
Phil Walker	Anthony Trembley (via teleconference)

2. Introduction of New Staff

Ms. Janet Gingras, General Manager, introduced Ms. Kimberly A. Cherry, COMB’s new Administrative Manager, as well as Mr. Daniel Razo, long-time seasonal Fisheries Aide, now a permanent member of the Division.

3. Public Comment

Phil Walker spoke about this year’s WR 89-18 release and, also, concerns of his regarding potential seismic activity along the San Andreas Fault and the associated implications.

4. Consent Agenda

a. Minutes

- June 2, 2016 Special Board Meeting
- June 15, 2016 Special Board Meeting
- June 27, 2016 Regular Board Meeting

b. Investment Funds

- Financial Reports
- Investment Reports

c. Review of Paid Claims

d. Review of Pending Claims for Payment

Director Holcombe moved to approve the Consent Agenda, as presented. Seconded by Director Hanson, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent/Abstain: Walsh

5. Los Padres National Forest Service – Fire Protection Presentation

Mr. Nic Elmquist, a Fuel Specialist with the U.S. Forest Service, Los Padres National Forest, spoke to the Board regarding fire protection efforts within the Santa Ynez River Watershed, especially around Lake Cachuma.

6. Verbal Reports from Board Committees

- *Operations Committee Meeting – July 14, 2016:* Director White noted that the sole agenda item for consideration will be considered as a later item on today’s agenda.
- *Fisheries Committee Meeting – July 19, 2016:* Director Holcombe reported on the items of the referenced meeting’s agenda, noting a concern regarding COMB’s lack of an approved and established Procurement Policy, specifically as it applies to the sole-sourcing of certain Fisheries consultants’ annual contracts. She stated that the Fisheries Committee forwards two sole-source contracts to the Board with a recommendation of approval as a later item on today’s agenda.

7. Board Committee Appointments for Fiscal Year 2016-17

President Morgan made the following appointments of chair, member, and alternate to each standing committee of the Board:

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

8. Proposed Annual Resolutions

- a. Resolution No. 614 Adopting Annual Statement of Investment Policy
- b. Resolution No. 615 Authorizing Investment of Monies in the Local Agency Investment Fund
- c. Resolution No. 616 Establishing a Supplemental Account Agreement for Telephone Transfers
- d. Resolution No. 617 Establishing a Check Signing Policy for General Fund Account Payment of Claims
- e. Resolution No. 618 Authorizing Signatories for General Fund Account at American Riviera Bank
- f. Resolution No. 619 Authorizing Signatories for Revolving Fund Account at American Riviera Bank
- g. Resolution No. 620 Establishing a Check Signing Policy for Cachuma Project Trust Fund and Master Contract Renewal Fund Accounts for Payment of Claims
- h. Resolution No. 621 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at American Riviera Bank
- i. Resolution No. 622 Establishing a Time and Place for Board Meetings

Director Holcombe moved to approve annual Resolutions No. 614 through No. 622, as presented. Seconded by Director White, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent/Abstain: Walsh

9. Selection of Bartlett, Pringle & Wolf, LLP to Perform Fiscal Year 2015-16 Audit

Director Holcombe moved to approve the selection of Bartlett, Pringle & Wolf, LLP to perform COMB's Fiscal Year 2015-16 Audit. She noted, however, that this selection should also fit into the COMB Procurement Policy that is to be developed and presented to the Administrative Committee as soon as possible. Seconded by Director Hanson, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent/Abstain: Walsh

10. Scopes of Work for Fisheries Division Consultants for Fiscal Year 2016-17

In accordance with sole-source justifications presented by Mr. Tim Robinson, Fisheries Division Manager, the Fisheries Committee forwarded to the Board Scopes of Work for HDR Engineering, Inc. and ICF International with a recommendation of approval. Director Holcombe moved to approve entering into the two sole-source contracts. Director Hanson requested that a concluding statement be added to the sole-source justifications, presenting explicitly the reasons why staff recommends using only said consultant for the given Scope of Work. Director Holcombe modified her motion to include Director Hanson's request. Seconded by Director Hanson, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent/Abstain: Walsh

Scopes of Work for both Rauch Communication Consultants (RCC) and Northwest Hydraulics Consultants (NHC) were included in the board packet for information. The three remaining Scopes of Work, created generally for CEQA, fisheries, and hydrology consultants will be presented to the Fisheries Committee for recommendation to the Board upon selection of appropriate respective consultants.

11. Purchase of Fluidigm Equipment

Director Holcombe moved to approve the annual purchase order, as recommended by the Fisheries Committee. Seconded by Director Hanson, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent/Abstain: Walsh

12. Emergency Pumping Facility Project (EPFP)

- *Cushman Contracting Change Order Request:*
Ms. Gingras and Mr. Dave Stewart, Operations Division Manager, described Cushman Contracting Corporation's (CCC's) claims and notified the Board that negotiations between COMB and CCC factored into the reduced Change Order request amount being presented. They explained that the Change Order request also contains a no-cost portion, calling for the reduction in the amount of daily Liquidated Damages to which CCC would be obligated and an extension of the associated grace period. Director Holcombe moved to approve satisfying the requested Change Order, as recommended by the Operations Committee. Seconded by Director White, the motion carried 4/0/3 as follows:

Ayes: White, Holcombe, Morgan

Nayes: None

Absent: Walsh

Abstain: Hanson

- *HDR Engineering, Inc. Proposal: FY 2016-17 Project Engineering Services:*
Director White moved to authorize the General Manager, Ms. Gingras, to enter into a Professional Services Agreement with HDR Engineering, Inc. for Fiscal Year 2016-17 Project engineering services, as recommended by the Operations Committee. Director Hanson noted the proposed agreement should also be required to follow the process outline in the Procurement Policy, soon to be developed per Director Holcombe's request. In the meantime, she suggested, a recommendation within the staff report will suffice. Seconded by Director Holcombe, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent/Abstain: Walsh

13. General Manager Report

- *Annual Cachuma Project Entitlement Request*
- *U.S. Bureau of Reclamation Compliance Review*
- *Cachuma Member Unit Managers Meeting*

- *Operations Division Activities*
- *Right of Way Program Update*
- *Fisheries Division Activities*

Ms. Gingras highlighted topics within her report, as incorporated in the board packet, and invited any questions from the Board. Specifically, she explained the sequence of events leading up to a majority of the member agencies' agreement to utilize the July 18th Methodology for allocating Unaccounted-for Water.

14. Operations Division Report

- *Lake Cachuma Operations*
- *Operation and Maintenance Activities*

Mr. Stewart summarized the report, as presented in the board packet, and updated the Board on several operations projects underway. He notified the Board that the repair of Ortega Reservoir's Underdrain had recently been successfully and skillfully completed by Peter Lapidus Construction, Inc.

15. Fisheries Division Report

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

Mr. Robinson noted features of the report, as presented in the board packet, and offered to field any questions from the Board. He also highlighted some of the Fisheries Division's recent coordination with the U.S. Bureau of Reclamation during the WR 89-18 releases.

16. Progress Report on Lake Cachuma Oak Tree Program

- *Maintenance and Monitoring*

Mr. Robinson assisted Mr. Razo in summarizing the progress report and fielding questions from the Board. Mr. Robinson also made the Board aware that he had given two talks at a recent ESRI conference and that one of them would be relevant and informative as a future presentation to the Board.

17. Monthly Cachuma Project Reports

Ms. Gingras confirmed that the monthly water reports were incorporated in the board packet for information, including the revised reports for March, April, and May of 2016, per the July 18th Methodology, as well as the June 2016 standard reports.

18. Directors' Requests for Agenda Items for Future Meeting

Director Holcombe reiterated the request that had been echoed throughout the meeting: to establish a COMB Procurement Policy for presentation to the Administrative Committee as soon as possible.

19. [Closed Session]: Conference with Legal Counsel: Existing and Potential Litigation

The Board went into closed session at 4:17 p.m.

- a. [Government Code Section 54956.9(d)(1)]
Name of Case: Arnold Edmund Keir Nash and Marguerite Bouraad Nash v. COMB, Santa Barbara County Superior Court
Case No., 15 CV-00499
- b. [Government Code Section 54956.9(d)(1)]
Name of Case: Randy F. Ondracek and Victoria K. Ondracek v. COMB, Santa Barbara County Superior Court
Case No., 15 CV-00500

20. 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 4:35 p.m.

- a. Arnold Edmund Keir Nash and Marguerite Bouraad Nash v. COMB Matter
- b. Randy F. Ondracek and Victoria K. Ondracek v. COMB Matter

No disclosure required at this meeting per Government Code Section 54957.1(a)(3)(B).

21. Meeting Schedule

- The next Regular Board meeting will be held August 22, 2016 at 2:00 p.m.
- The Agendas and Board Packets are available on the COMB website at www.cachuma-board.org

22. COMB Adjournment

There being no further business, the meeting was adjourned at 4:36 p.m.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

COMB
Statement of Net Assets
As of July 31, 2016

ASSETS

Current Assets

Checking/Savings

TRUST FUNDS

1210 · WARREN ACT TRUST FUND 540,560.52

1220 · RENEWAL FUND 10,215.61

Total TRUST FUNDS 550,776.13

1050 · GENERAL FUND 591,612.46

1100 · REVOLVING FUND 116,827.57

Total Checking/Savings 1,259,216.16

Other Current Assets

1010 · PETTY CASH 500.00

1200 · LAIF 2,010,111.35

1303 · Bradbury SOD Act Assmnts Rec 83,283.00

1304 · Lauro Dam SOD Assesmnt Rec 14,447.00

1400 · PREPAID INSURANCE 24,900.72

Total Other Current Assets 2,133,242.07

Total Current Assets 3,392,458.23

Fixed Assets

1500 · VEHICLES 409,581.12

1505 · OFFICE FURN & EQUIPMENT 432,634.46

1510 · MOBILE OFFICES 97,803.34

1515 · FIELD EQUIPMENT 542,025.24

1525 · PAVING 38,351.00

1550 · ACCUMULATED DEPRECIATION -1,320,829.64

Total Fixed Assets 199,565.52

Other Assets

1910 · LT Bradbury SOD Act Assess Rec 5,250,759.07

1920 · LT Lauro SOD Act Assess Rec 940,342.00

1922 · Deferred Outflows of Resources (GASB 68) 136,562.00

Total Other Assets 6,327,663.07

TOTAL ASSETS 9,919,686.82

COMB
Statement of Net Assets
As of July 31, 2016

LIABILITIES & NET ASSETS

Liabilities

Current Liabilities

Accounts Payable

2200 · ACCOUNTS PAYABLE

268,925.16

Total Accounts Payable

268,925.16

Other Current Liabilities

Payroll-DepPrm Admin

335.50

Payroll-DepPrm FD

21.24

Payroll-DepPrm Ops

451.64

Payroll-PERS EE Field

5.41

Payroll-PERS EE Ops

24.33

2505 · ACCRUED WAGES

31,189.78

2550 · VACATION/SICK

142,912.32

2561 · BRADBURY DAM SOD ACT

83,283.66

2563 · LAURO DAM SOD ACT

14,447.00

2565 · ACCRUED INTEREST SOD ACT

87,008.00

2590 · DEFERRED REVENUE

550,776.13

Total Other Current Liabilities

910,455.01

Total Current Liabilities

1,179,380.17

Long Term Liabilities

2602 · LT SOD Act Liability-Bradbury

5,250,759.07

2603 · LT SOD Act Liability - Lauro

940,342.00

2604 · OPEB LT Liability

746,491.00

2605 · Loan Payable - EPFP

2,601,317.00

2610 · Net Pension Liability (GASB 68)

1,120,314.00

2611 · Deferred Inflows of Resources (GASB 68)

348,168.00

Total Long Term Liabilities

11,007,391.07

Total Liabilities

12,186,771.24

NET POSITION

3000 · Opening Bal Equity

-1,357,356.05

3901 · Retained Net Assets

-552,676.75

Net Income

-357,051.62

Total Net Assets

-2,267,084.42

TOTAL LIABILITIES & NET POSITION

9,919,686.82

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2015 - Jun 2016

1:35 PM
 08/17/16
 Accrual Basis

	Fisheries			Operations			TOTAL		
	Jul 16	Budget	% of Budget	Jul 16	Budget	% of Budget	Jul 16	Budget	% of Budget
4100 - LABOR - FISHERIES	76,407.74	623,119.00	12.26%	0.00			76,407.74	623,119.00	12.26%
4200 - VEHICLES & EQUIP - FISHERIES									
4270 - Vehicle/Equip Mtce	833.00	13,000.00	6.41%	0.00			833.00	13,000.00	6.41%
4280 - Fixed Capital	0.00	15,000.00	0.0%	0.00			0.00	15,000.00	0.0%
4290 - Miscellaneous	1,341.83	2,500.00	53.67%	0.00			1,341.83	2,500.00	53.67%
Total 4200 - VEHICLES & EQUIP - FISHERIES	2,174.83	30,500.00	7.13%	0.00			2,174.83	30,500.00	7.13%
4420 - CONTRACT LABOR - FISHERIES									
4221 - Meters & Valves	0.00	3,000.00	0.0%	0.00			0.00	3,000.00	0.0%
4222 - Fish Projects Maintenance	0.00	25,000.00	0.0%	0.00			0.00	25,000.00	0.0%
Total 4220 - CONTRACT LABOR - FISHERIES	0.00	28,000.00	0.0%	0.00			0.00	28,000.00	0.0%
4300 - MATERIALS/SUPPLIES - FISHERIES									
4390 - Miscellaneous	1,047.93	7,000.00	14.97%	0.00			1,047.93	7,000.00	14.97%
Total 4300 - MATERIALS/SUPPLIES - FISHERIES	1,047.93	7,000.00	14.97%	0.00			1,047.93	7,000.00	14.97%
4500 - OTHER EXPENSES - FISHERIES									
4502 - Uniforms	0.00	2,500.00	0.0%	0.00			0.00	2,500.00	0.0%
Total 4500 - OTHER EXPENSES - FISHERIES	0.00	2,500.00	0.0%	0.00			0.00	2,500.00	0.0%
4999 - GENERAL & ADMINISTRATIVE									
5000 - Director Fees									
5001 - Director Mileage	0.00	2,000.00	2.34%	46.74	2,000.00	2.34%	46.74	2,000.00	2.34%
5000 - Director Fees - Other	0.00	11,000.00	6.05%	665.60	11,000.00	6.05%	665.60	11,000.00	6.05%
Total 5000 - Director Fees	0.00	13,000.00	5.48%	712.34	13,000.00	5.48%	712.34	13,000.00	5.48%
5100 - Legal	0.00	75,000.00	6.29%	4,715.00	75,000.00	6.29%	4,715.00	75,000.00	6.29%
5101-1 - Audit	0.00	20,000.00	0.0%	0.00	20,000.00	0.0%	0.00	20,000.00	0.0%
5150 - Unemployment Tax	0.00	5,000.00	0.0%	0.00	5,000.00	0.0%	0.00	5,000.00	0.0%
5200 - Liability Insurance	0.00	45,955.00	0.0%	0.00	45,955.00	0.0%	0.00	45,955.00	0.0%
5310 - Postage/Office Exp	0.00	5,000.00	15.52%	775.87	5,000.00	15.52%	775.87	5,000.00	15.52%
5311 - Office Equip/Leases	0.00	8,000.00	8.55%	684.02	8,000.00	8.55%	684.02	8,000.00	8.55%
5312 - Misc Admin Expenses	0.00	7,150.00	2.6%	185.59	7,150.00	2.6%	185.59	7,150.00	2.6%
5313 - Communications	0.00	8,500.00	7.43%	631.63	8,500.00	7.43%	631.63	8,500.00	7.43%
5314 - Utilities	0.00	9,737.00	8.87%	863.92	9,737.00	8.87%	863.92	9,737.00	8.87%
5315 - Membership Dues	0.00	8,000.00	2.72%	217.75	8,000.00	2.72%	217.75	8,000.00	2.72%
5316 - Admin Fixed Assets	0.00	3,000.00	7.16%	214.81	3,000.00	7.16%	214.81	3,000.00	7.16%
5318 - Computer Consultant	0.00	15,000.00	0.0%	0.00	15,000.00	0.0%	0.00	15,000.00	0.0%
5325 - Emp Training/Subscriptions	0.00	2,000.00	28.67%	573.42	2,000.00	28.67%	573.42	2,000.00	28.67%
5330 - Admin Travel/Conferences	0.00	2,000.00	0.0%	0.00	2,000.00	0.0%	0.00	2,000.00	0.0%
5331 - Public Information	0.00	1,000.00	0.0%	0.00	1,000.00	0.0%	0.00	1,000.00	0.0%
Total 4999 - GENERAL & ADMINISTRATIVE	0.00	228,342.00	4.19%	9,574.35	228,342.00	4.19%	9,574.35	228,342.00	4.19%
5299 - ADMIN LABOR	0.00	525,822.00	11.05%	58,083.51	525,822.00	11.05%	58,083.51	525,822.00	11.05%
5400 - GENERAL & ADMIN - FISHERIES									
5407 - Legal - FD	299.00	20,000.00	1.5%	0.00	20,000.00	1.5%	299.00	20,000.00	1.5%
5410 - Postage / Office Supplies	397.68	2,000.00	19.88%	0.00	2,000.00	19.88%	397.68	2,000.00	19.88%
5413 - Office Equipment / Leases	368.30	5,218.00	7.06%	0.00	5,218.00	7.06%	368.30	5,218.00	7.06%
5414 - Misc. Admin Expense	170.36	4,870.00	3.5%	0.00	4,870.00	3.5%	170.36	4,870.00	3.5%
5418 - Communications	392.40	4,305.00	9.12%	0.00	4,305.00	9.12%	392.40	4,305.00	9.12%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2015 - Jun 2016

1:35 PM
 08/17/16
 Accrual Basis

	Fisheries			Operations			TOTAL		
	Jul 16	Budget	% of Budget	Jul 16	Budget	% of Budget	Jul 16	Budget	% of Budget
5414 · Utilities	465.19	5,243.00	8.87%	0.00			465.19	5,243.00	8.87%
5415 · Membership Dues	117.25	4,000.00	2.93%	0.00			117.25	4,000.00	2.93%
5416 · Admin Fixed Assets	115.67	3,000.00	3.86%	0.00			115.67	3,000.00	3.86%
5418 · Computer Consultant	0.00	5,000.00	0.0%	0.00			0.00	5,000.00	0.0%
5425 · Employee Education/Subsription	308.77	2,500.00	12.35%	0.00			308.77	2,500.00	12.35%
5426 · Director Fees	358.40	6,000.00	5.97%	0.00			358.40	6,000.00	5.97%
5427 · Director Mileage	25.16	1,000.00	2.52%	0.00			25.16	1,000.00	2.52%
5430 · Travel	0.00	2,500.00	0.0%	0.00			0.00	2,500.00	0.0%
5431 · Public Information	0.00	1,500.00	0.0%	0.00			0.00	1,500.00	0.0%
5441 · Audit	0.00	6,300.00	0.0%	0.00			0.00	6,300.00	0.0%
5443 · Liab & Property Ins	0.00	24,745.00	0.0%	0.00			0.00	24,745.00	0.0%
Total 5400 · GENERAL & ADMIN - FISHERIES	3,018.18	98,181.00	3.07%	0.00			3,018.18	98,181.00	3.07%
5499 · ADMIN LABOR-FISHERIES	21,698.61	224,712.00	9.66%	0.00			21,698.61	224,712.00	9.66%
5510 · Integrated Reg. Water Mgt Plan	0.00			1,343.00	5,000.00	26.86%	1,343.00	5,000.00	26.86%
6000 · SPECIAL PROJECTS	0.00			76.02	20,000.00	0.38%	76.02	20,000.00	0.38%
6062 · SCADA	0.00			0.00	150,000.00	0.0%	0.00	150,000.00	0.0%
6090 · COMB Office Building	0.00			0.00	240,000.00	0.0%	0.00	240,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00			1,925.00	10,000.00	19.25%	1,925.00	10,000.00	19.25%
6097 · GIS and Mapping	0.00			810.00	20,000.00	4.05%	810.00	20,000.00	4.05%
6105 · ROW Management Program	0.00			0.00	50,000.00	0.0%	0.00	50,000.00	0.0%
6109 · NP Jet Flow Control Valve	0.00			0.00	50,000.00	0.0%	0.00	50,000.00	0.0%
6111 · Mission Crk Pipe Temp Repair	0.00			1,375.00	100,000.00	1.38%	1,375.00	100,000.00	1.38%
6118 · Repair Lateral 3 Structure	0.00			89,405.13	1,846,250.00	4.84%	89,405.13	1,846,250.00	4.84%
6120 · Emergency Pumping Fac Project	0.00			0.00	75,000.00	0.0%	0.00	75,000.00	0.0%
6131 · Lauro Diversion Valve Install	0.00			93,591.15	2,561,250.00	3.65%	93,591.15	2,561,250.00	3.65%
Total 6000 · SPECIAL PROJECTS	0.00			0.00	-2,467,658.85	0.0%	0.00	-2,467,658.85	0.0%
6200 · FISHERIES ACTIVITIES	0.00			0.00			0.00		
6201 · FMP Implementation	0.00	73,000.00	0.0%	0.00			0.00	73,000.00	0.0%
6202 · GIS and Mapping	125.00	10,000.00	1.25%	0.00			125.00	10,000.00	1.25%
6203 · Grants Technical Support	0.00	10,000.00	0.0%	0.00			0.00	10,000.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	8,000.00	0.0%	0.00			0.00	8,000.00	0.0%
6205 · USGS Stream Gauge Program	19,525.00	77,000.00	25.36%	0.00			19,525.00	77,000.00	25.36%
6206 · Tri County Fish Team Funding	0.00	5,000.00	0.0%	0.00			0.00	5,000.00	0.0%
6207 · Oak Tree Restoration Program	10.25	80,000.00	0.01%	0.00			10.25	80,000.00	0.01%
Total 6200 · FISHERIES ACTIVITIES	19,660.25	263,000.00	7.48%	0.00	-243,339.75	0.01%	19,660.25	263,000.00	7.48%
6300 · HABITAT ENHANCEMENT	0.00			0.00			0.00		
6303 · Tributary Projects Support	0.00	20,000.00	0.0%	0.00			0.00	20,000.00	0.0%
6312 · Quiota Creek Crossing 0 (a&b)	0.00	840,000.00	0.0%	0.00			0.00	840,000.00	0.0%
6314 · Quiota Creek Crossing 4	122.22	1,120,000.00	0.01%	0.00			122.22	1,120,000.00	0.01%
6316 · Quiota Creek Crossing 5	0.00	30,000.00	0.0%	0.00			0.00	30,000.00	0.0%
6317 · Salsipuedes Fish Ladder Repair	0.00	10,000.00	0.0%	0.00			0.00	10,000.00	0.0%
Total 6300 · HABITAT ENHANCEMENT	122.22	2,020,000.00	0.01%	0.00	-2,019,877.78	0.01%	122.22	2,020,000.00	0.01%
Total Expend	124,129.76	3,297,012.00	3.77%	232,921.86	4,417,789.00	5.27%	357,051.62	7,714,801.00	4.63%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
 Budget vs. Actuals July 2015 - Jun 2016

	Fisheries			Operations			TOTAL					
	Jul 16	Budget	\$ Over Budget	% of Budget	Jul 16	Budget	\$ Over Budget	% of Budget	Jul 16	Budget	\$ Over Budget	% of Budget
Net Income	-124,129.76	1,991,107.00	-2,115,236.76	-6.23%	-232,921.86	0.00	-232,921.86	100.0%	-357,051.62	1,991,107.00	-2,348,158.62	-17.93%

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

www.treasurer.ca.gov/pmia-laif/laif.asp
 August 08, 2016

CACHUMA OPERATION AND MAINTENANCE BOARD

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

PMIA Average Monthly Yields

Tran Type Definitions

July 2016 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
7/7/2016	7/6/2016	RD	1505482	JANET GINGRAS	2,000,000.00
7/15/2016	7/14/2016	QRD	1508654	SYSTEM	114.46

Account Summary

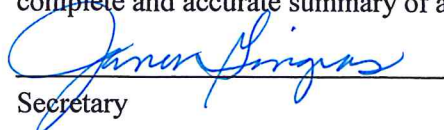
Total Deposit:	2,000,114.46	Beginning Balance:	9,996.89
Total Withdrawal:	0.00	Ending Balance:	2,010,111.35

MEMO TO: Board of Directors
 Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of July, 2016, 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

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AUG 04 2016

CACHUMA O & M BOARD

PAGE 1

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

ACCOUNT ANALYSIS CHECKING

STATEMENT DATE 07/29/2016
LAST STATEMENT DATE 06/30/2016

0	STATEMENT PERIOD		
PREVIOUS BALANCE	10,215.61	# OF DAYS-STMT PERIOD	29
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	10,215.61
ENDING BALANCE	10,215.61		
TOTAL SRV CHG TODAY	0.00	YTD INTEREST	0.00

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of July, 2016, 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

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AUG 04 2016

PAGE 1

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

CACHUMA O & M BOARD

ACCOUNT ANALYSIS CHECKING

STATEMENT DATE 07/29/2016
LAST STATEMENT DATE 06/30/2016

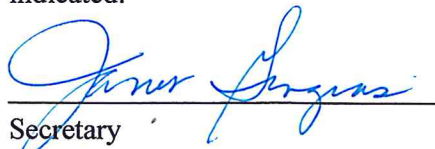
1	STATEMENT PERIOD		
PREVIOUS BALANCE	374,807.07	# OF DAYS-STMT PERIOD	29
1 DEPOSITS/CREDITS	165,679.00	AVERAGE BALANCE	426,224.69
0 CHECKS/WITHDRAWALS	0.00	YTD INTEREST	0.00
ENDING BALANCE	540,486.07		
TOTAL SRV CHG TODAY	0.00		

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of July, 2016, 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 July 31, 2016

Date	Num	Name	Memo	Amount
1050 - GENERAL FUND				
07/07/2016	24621	ACWA-Joint Powers Insurance Authority	Workers Comp Program 4/1-6/30/16	-8,620.00
07/07/2016	24622	Association of Ca Water Agencies/JPIA	Jul-Aug Health Benefits coverage	-42,887.56
07/07/2016	24623	Business Card	Office supplies	-123.04
07/07/2016	24624	Musick, Peeler & Garrett LLP	General Counsel-Apr	-2,473.97
07/07/2016	24625	Orchard Business/SYNCB	Building mtce mat/supplies (Ops Div)	-151.88
07/07/2016	24626	Paychex, Inc.	6/3, 6/17, 7/1 payrolls/taxes/deliveries	-506.40
07/07/2016	24627	PG&E	Tecolote Tunnel/North Portal electricity	-390.16
07/07/2016	24628	Quinn Company	Water Truck 2000 gal ID No.120198	-50,000.00
07/07/2016	24629	Summers Engineering, Inc.	Watershed Sanitary Survey 2016-1st progress billing	-20,780.00
07/07/2016	24630	The Gas Company	Gas-main office	-0.94
07/07/2016	24631	Union-Bank	Account analysis fee-UB Gen Fund (final-acct close)	-189.95
07/07/2016	24632	Wells Fargo Vendor Fin Serv	Copier (4550 & 3051) lease agmts	-489.24
07/14/2016	24633	American Riviera Bank (ARB)	Loan interest payment #24-Jul	-7,045.23
07/14/2016	24634	Applied EarthWorks, Inc.	Cultural Resources Survey QC Xng 0a&b-May (FD)	-3,625.49
07/14/2016	24635	Aqua-Flo Supply	Bushings/brass nipples/tees/adapters/tape-oak tree program (Fish Div)	-81.80
07/14/2016	24636	AT&T	Jun charges	-482.89
07/14/2016	24637	Calif Dept of Forestry & Fire Protection	Lauro Res clearing work (Ops Div)	-456.96
07/14/2016	24638	City of Santa-Barbara	Trash/Recycle-Jun 2016	-217.82
07/14/2016	24639	Coastal Copy, LP	Copier (4550 & 3051) mtce agmts	-390.35
07/14/2016	24640	County of Santa--Barbara	Green waste (Ops Div)	-85.95
07/14/2016	24641	County of SB Planning & Development	Land Use Permit Xng 0-Jun staff labor (Fish Div)	-1,700.63
07/14/2016	24642	Cox Communications Santa Barbara	Business internet-Jul	-195.00
07/14/2016	24643	Culligan of Sylmar	Monthly RO system-Jul	-25.95
07/14/2016	24644	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#26-Phase II	-133,179.00
07/14/2016	24645	Dave Stewart	Reimb-safety boots	-175.00
07/14/2016	24646	Draganchuk Alarm Systems	Alarm monitoring 7/1-9/30/16	-82.50
07/14/2016	24647	ECHO Communications	Monthly answering service	-62.00
07/14/2016	24648	Employee Relations, Inc.	Background/verification-(AM)	-164.35
07/14/2016	24649	Federal Express	Mailings	-139.48
07/14/2016	24650	Frontier Communications	Main office/outlying stations/SCADA	-1,160.57
07/14/2016	24651	H. Christiansen Co.	Seine/bags (Fish Div)	-1,314.00
07/14/2016	24652	Harrison Hardware	T-posts/zip ties-stilling basin fish removal; shut off hose/soaker-oak tree program (Fish Div)	-263.77
07/14/2016	24653	Harwood White	Jun mtg fees	-662.38
07/14/2016	24654	HDR Engineering, Inc.	EPFP Engineering-Jun; Lauro Res bypass valve (Ops Div); Design QC X 0,4,8/BO-FMP-May (Fish Div)	-15,525.04
07/14/2016	24655	Home Depot Credit Services	Toilet paper/trash bags/NP jet flow valve mtce/misc s	-322.26
07/14/2016	24656	IMG-Industrial Medical Group of SM	Pre-employment physical (AM)	-220.00
07/14/2016	24657	J&C Services	Office cleaning services-Jun services	-600.00
07/14/2016	24658	Kenneth A. Knight, Consulting	Consulting Arborist-Oak Tree program-Jun	-1,000.00
07/14/2016	24659	Lauren W. Hanson	Jun mtg fees	-533.60
07/14/2016	24660	MarBorg Industries	Portable toilets-outlying stations	-328.37
07/14/2016	24661	Nestle Pure Life Direct	May-5 gal disp. (PPE criteria)	-67.30
07/14/2016	24662	O'Reilly Automotive, Inc.	Air filter (Ops Div); wiper blades (Fish Div)	-63.08
07/14/2016	24663	Pacific Rim Automation, Inc.	TransNet spread spectrum radio labor/equip-SCADA	-4,131.42
07/14/2016	24664	Polly Holcombe	Jun mtg fees	-573.11
07/14/2016	24665	Powell Garage	Oil service/camshaft (Ops Div); full service (Fish Div)	-732.32
07/14/2016	24666	Praxair Distribution, Inc	Cylinder rental (acetylene for welder)	-68.59
07/14/2016	24667	Premiere Global Services	Conf calls-Jun	-6.35
07/14/2016	24668	Prudential Overall Supply	Mats/scrapers-Jun	-150.84
07/14/2016	24669	Santa Barbara News Press	Notice of Availability-QC Xng 0 (Fish Div)	-31.68

Cachuma Operation & Maintenance Board
Paid Claims
As of July 31, 2016

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
07/14/2016	24670	Santa Ynez River Water Cons. Dist. ID#1	Stetson-BO/FMP tasks-support-Apr (Fish Div)	-1,360.62
07/14/2016	24671	Solinst Canada Ltd.	Leveloggers-equip (Fish Div)	-618.52
07/14/2016	24672	Southern California Edison	Main office/outlying stations	-1,414.93
07/14/2016	24673	Spatial Wave	Jul-Sep 2016 Field Mapplet Software mtce	-900.00
07/14/2016	24674	Staples Credit Plan	Cell phone charger cords/thumb drives	-86.35
07/14/2016	24675	Superior Brake & Alignment	Catalytic converter/service-Explorer	-2,178.55
07/14/2016	24676	Tim Robinson	Reimb-ESRI conf meals/lodging/mileage	-1,184.74
07/14/2016	24677	Tri-Co Reprographics	Copies-Q Xng 4 (Fish Div)	-122.22
07/14/2016	24678	Turenchalk Network Services, Inc.	IT services; AM computer/monitors; Ops computer; server hard drive	-5,194.82
07/14/2016	24679	Underground Service Alert of So. Calif.	57 Ticket charges	-85.50
07/14/2016	24680	Verizon Wireless	Cellular/Modem's/USB's	-645.83
07/14/2016	24681	W. Douglas Morgan	Jun mtg fees	-694.00
07/14/2016	24682	Wright Express Fleet Services	Fleet fuel	-2,341.52
07/14/2016	24683	YSI Incorporated	Flowtrackers w/wading rods; mounting brackets (Fish Div)	-9,805.60
07/14/2016	24684	Draganchuk Alarm Systems	Service call-Verizon switch to Frontier (Apr)	-125.00
07/19/2016	24685	Aquatic Biologists, Inc.	Replacement air diffuser (Fish Div)	-227.46
07/19/2016	24686	Cardno, Inc.	BO Compliance /AMC-Jun (Fish Div)	-10,007.93
07/19/2016	24687	Castle Publications, Ltd	HR related Seminars registration (AM)	-825.00
07/19/2016	24688	COM3 Consulting Inc.	QC Xng 8 Project Mgmt services-May-Jun (Fish Div)	-1,700.00
07/19/2016	24689	HDR Engineering, Inc.	Quiota Crk Xng 8-Jun	-1,029.51
07/19/2016	24690	Onset Computer Corporation	Sensor caps-water quality instruments (Fish Div)	-526.00
07/19/2016	24691	Pitney Bowes Global Financial Services LL	Lease agmt-postage meter (Jul-Oct)	-443.88
07/19/2016	24692	Southern California Edison	Outlying station(s)	-25.69
07/19/2016	24693	Wells Fargo Vendor Fin Serv	Copier (4550 & 3051) lease agmts	-489.24
07/25/2016	24694	Business Card	Office supplies; JPIA training-Ops; Confined Space Entry sign	-1,502.40
07/25/2016	24695	Famcon Pipe & Supply	Air and Vac can 20"x36" (Ops Div)	-378.00
07/25/2016	24696	Fence Factory	Trapping equipment (misc) (Fish Div)	-634.22
07/25/2016	24697	Laser Cartridge Co.	Ink cartridge	-428.64
07/25/2016	24698	MNS Engineers, Inc.	Topographic-NP Tower access road (Ops Div)	-7,331.80
07/25/2016	24699	Orchard Business/SYNCB	Small tools/PPE/mat-supplies	-79.13
07/25/2016	24700	PG&E	Tecolote Tunnel/North Portal electricity	-418.02
07/25/2016	24701	Summers Engineering, Inc.	Watershed Sanitary Survey 2016-2nd progress billing	-4,738.80
Total 1050 · GENERAL FUND				<u>-360,022.14</u>
TOTAL				<u>-360,022.14</u>

APPROVED FOR PAYMENT

Director

Director

Director

FINANCE COMMITTEE

comb2
Pending Claims for Payment
As of July 31, 2016

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Memo</u>	<u>Due Date</u>	<u>Amount</u>
Musick, Peeler & Garrett LLP					
Bill	07/31/2016	298878	General Counsel-July	8/31/16	5,083.00
Total Musick, Peeler & Garrett LLP					<u>5,083.00</u>
TOTAL					
				TOTAL CLAIMS PENDING PAYMENT July	<u>\$ 5,083.00</u>

APPROVED FOR PAYMENT

_____ Director

_____ Director

_____ Director

FINANCE COMMITTEE

CACHUMA OPERATION & MAINTENANCE BOARD

Fisheries Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Thursday, August 18, 2016
11:00 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. Fish Passage Improvement Project: Quiota Creek Crossing 4 – Indemnification Letter to County of Santa Barbara (*for information and possible recommendation*)
4. Recent Fisheries Division Activities (*for information*)
5. Adjournment

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



Mission Statement:

“To provide a reliable source of water to our member agencies in an efficient and cost effective manner for the betterment of life in our communities.”

August 22, 2016

General Manager Report

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

Administrative Policy

The draft procurement policy is currently under development as an excerpt to a larger proposed COMB Administrative Policy Manual and will be first reviewed by General Counsel then presented to the Administrative Committee in September for consideration. The Director Handbook reviewed by the Administrative Committee earlier in the year will also be presented for consideration with changes as previously suggested by the Committee. An updated Employee Handbook is currently being developed by staff for review by General Counsel prior to submission to the Administrative Committee and the Board.

U.S. Bureau of Reclamation Scheduled Reviews

- Contract Compliance Review

The Bureau of Reclamation (Reclamation) conducts periodic Contract Compliance Reviews of water-related contracts to ensure that Contractors' water use, deliveries, and payments are consistent with contract terms. During these periodic reviews, Reclamation examines annual water delivery records and supporting information or documentation. The Santa Barbara County Water Agency is one of ten contractors in Reclamation's Mid-Pacific Region selected for review of water deliveries made during the 2015 water year. A Reclamation review team, including representatives from the Mid-Pacific Regional Office, the South Central California Area Office, and Office of Policy and Administration in Denver will meet with the County, the Member Agencies and COMB staff on August 23rd and 24th to conduct this review. The previous review was conducted in 2012.

- Comprehensive Facilities Review

Every six years Reclamation performs a Comprehensive Facilities Review (CFR) on the four Cachuma Project dams on the South Coast: Glen Anne, Lauro, Ortega and Carpinteria. These reviews include civil and mechanical engineering examinations of the dams. Comprehensive Facility Reviews are designed to gather together appropriate technical disciplines for a brief, but intensive assessment of a dam's performance history, the dam safety analyses performed to date, and the current condition of the dam and damsite. The CFR covers operation, maintenance and dam safety issues. CFR's are generally followed every three years by a periodic facility review. The next CFR for the Cachuma Project is scheduled to be performed in September 2016.

Operations Division Activities

- Drought Emergency Pumping Facility Project (EPFP)

The EPFP was successfully relocated on June 29th from the original site one location to the alternate site two location near the County Park. The system is currently operating in approximately 35' of lake depth with average flows of 18 mgd for the month of August and three pumps performing at approximately 90% capacity. Cushman Contracting installed, as a precaution, one air vent along the floating pipeline last week and will most likely install an additional air vent this week. This procedure was implemented to allow any potential air pockets to be released which could be formed during an unpredictable power failure.

Reclamation has confirmed the extension of the PGE electrical services contract for the Emergency Pumping Facilities Project for an additional \$360,000 through July 2017.

See Attachment (A) for Emergency Pumping Facility Project expenditure detail.

- Isolation Protocols

AECOM has completed and finalized the physical isolation protocols technical memorandum which contains specific individual agency technical information relayed from the Member Agencies to AECOM. In addition, a guideline for notification and implementation of the physical isolation protocols is forthcoming.

- Water Efficiency Study - Meter Analysis Project

A request for proposals has been submitted to three engineering firms to perform an in-depth meter analysis and water efficiency study within the South Coast Conduit and appurtenant facilities for purposes of accurately accounting for system losses. Once proposals have been received and reviewed, a staff recommendation will be presented to the Operations Committee prior to submittal to the Board for approval.

- Lateral 1 replacement

The Montecito lateral one meter was discovered to be non-operational. Staff ordered a replacement 10" McCrometer water specialties propeller meter for installation. Due to existing pipe conditions and the location of adjacent utilities, COMB staff hired Lash construction to perform the replacement work. The meter replacement was completed July 25, 2016 without incident.

Fisheries Division Activities

The Adaptive Management Committee (AMC) provides technical support for the implementation of the 2000 Biological Opinion and Fish Management Plan. The AMC is chaired by Reclamation and is comprised of representatives from National Marine Fisheries Services (NMFS), California Department of Fish and Wildlife (CDFW), United States Fish and Wildlife Service (USFW), Cachuma Conservation Release Board (CCRB), SYRWCD (Parent District), SYRWCD ID#1, and the City of Lompoc. In conjunction with the implementation of the Biological Opinion and Fish Management Plan, COMB staff was invited to participate in (for technical information only) Reclamation conducted AMC meetings during recent months. The discussions have been primarily focused on environmental conditions within the river, the distribution and abundance of *O. mykiss*, flow scenarios, the committees' concerns for fish and water resources, and immediate and longer term potential actions during this critical drought period.

Most recently, discussions have centered on status updates on the water tank flows to Hilton Creek, Reclamation's outlet works 30 inch valve, the WR 89-18 release schedule in conjunction with the operation of the valve, water quality in Hilton Creek, deliveries to Hilton Creek and planning options for *O. mykiss* once the water rights releases have been completed. As mentioned previously, the WR 89-18 releases started on July 12th and are expected to continue through late August.

General Manager Report
August 22, 2016

In anticipation of the releases, Reclamation procured and installed four-five thousand gallon storage tanks with appurtenant fixtures at the lower release site of Hilton Creek. The tanks, which now have shading protection installed by Reclamation's contractor, have been successful in providing continual low water flows to Hilton Creek to sustain habitat in the lower pools while the releases continue. Reclamation has requested water quality monitoring which has been conducted weekly by COMB Fisheries Division personnel.

Respectfully Submitted,

Janet Gingras

General Manager

EMERGENCY PUMPING FACILITY PROJECT FY 2016/2017

Attachment A

AS OF: 7/31/2016

FY 16/17 APPROVED BUDGET

Emergency Pumping Facility Project

ACCT #6120

\$ 1,846,250.00 Total Budget Approved FY 16/17

FY 16/17 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Cushman Contracting	1,746,250.00	82,290.90	1,663,959.10	Construction - Phase II/Operations
HDR Engineering	100,000.00	-	100,000.00	Contract Management tasks
Musick, Peeler & Garrett	-	69.00	(69.00)	Legal costs
American Riviera Bank	-	7,045.23	(7,045.23)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	-	-	Materials, supplies, Permits, etc.
Totals	\$ 1,846,250.00	\$ 89,405.13	\$ 1,756,844.87	

FY 15/16 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Cushman Contracting	2,219,250.00	1,954,734.86	264,515.14	Construction - Phase II/Operations
HDR Engineering	100,000.00	80,942.54	19,057.46	Contract Management tasks
PGE (Site 2)	150,000.00	107,880.35	42,119.65	PGE reconducting costs (6 mo's) (Eng)
PGE	240,000.00	-	240,000.00	PGE electrical costs (6 mo's)
Musick, Peeler & Garrett	-	13,662.00	(13,662.00)	Legal costs
American Riviera Bank	-	82,144.46	(82,144.46)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	1,518.75	(1,518.75)	Materials, supplies, Permits, etc.
Totals	\$ 2,709,250.00	\$ 2,240,882.96	\$ 468,367.04	

FY 14/15 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED*	BALANCE	Description
Cushman Contracting	3,818,000.00	3,842,509.46	(24,509.46)	Construction - Phase II/Operations
HDR Engineering	150,000.00	71,618.52	78,381.48	Contract Management tasks
Musick, Peeler & Garrett	-	22,609.00	(22,609.00)	Legal costs
PGE Construction	125,000.00	111,907.00	13,093.00	
PGE Monthly Costs	32,565.00	9,631.02	22,933.98	Electricity charges
PGE Monthly Costs	-	2,500.00	(2,500.00)	Deposit-pump station location #2 eng.
RMC Water & Environment	-	999.81	(999.81)	Prop 84, Grant Application support
Rodney Hunt-Fontaine	-	540.00	(540.00)	Stems/guides-cast/engineering
SY Band of Chumash	-	1,914.30	(1,914.30)	Field monitoring
Bank of Santa Barbara	-	60,120.92	(60,120.92)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	1,214.97	(1,214.97)	Materials, supplies, Permits, etc.
Totals	\$ 4,125,565.00	\$ 4,125,565.00	\$ 0.00	

*Participating Member Units were assessed Actual Expenditures only.

FY 13/14 DROUGHT CONTINGENCY-EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Environ Strategy	60,000.00	9,191.50	50,808.50	Project Management Services
HDR Engineering	198,748.00	178,645.48	20,102.52	Develop proj def; assist w/RFO-RFP, etc
MPG - Environmental/Legal	50,000.00	80,622.32	(30,622.32)	Environmental / Legal fees
Permits	8,045.25	8,045.25	-	CDFW-\$4,912.25 / RWQCB-\$3,133
PG&E	7,000.00	7,000.00	-	On-going project electrical charges
Smith, Watts & Martinez	20,000.00	20,000.00	-	Lobbyist-drought relief funding
SYRWCD ID#1 (Stetson)	5,000.00	4,025.17	974.83	Work authorized by RW/TR
Miscellaneous	33,206.75	119.72	33,087.03	Non-Contract Incidental charges
Cushman Contracting	350,000.00	350,000.00	-	Phase I designs/mobilization/site prep
HDR Engineering	50,000.00	-	50,000.00	Project Management fees
Contractor	54,000.00	-	54,000.00	Evaluation of NP gates, stems, guides
Rodney Hunt-Fontaine	150,000.00	152,272.44	(2,272.44)	Stems for gates 1-5
PG&E	-	107,370.37	(107,370.37)	Electrical Installation contract
Totals	\$ 986,000.00	\$ 917,292.25	\$ 68,707.75	

COMBINED FY 13/14; 14/15; 15/16 & 16/17 Totals			
	BUDGET	EXPENDED	BALANCE
	\$ 9,667,065.00	\$ 7,373,145.34	\$ 2,293,919.66

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: August 22, 2016
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 continually endeavors 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 July was 1,750.5 acre-feet, for an average daily flow of 56.46 acre-feet. Lake elevation was 663.37 feet at the beginning of the month and 655.05 feet at the end. Storage change decreased 6886 acre-feet. CCWA wheeled 1340.5 acre-feet of water to Cachuma Project facilities.

Operation and Maintenance Activities

COMB Staff regularly performs the following duties:

- Weekly Safety meetings
- Weekly Rodent Bait (all reservoirs)
- Weekly Toe Drain and Piezometer reads at Ortega (L23)
- Dam inspection and reports (all reservoirs)
- Structure maintenance per Work Plan
- USA Dig Alert – 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 continue educating 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 think of related examples. The discussion also includes how the incident could have been prevented. Regular safety meetings help staff to constantly be aware of safety practices while on the job. The following topics were reviewed this past month:

- ✓ Earth Quake Preparedness
- ✓ Importance of Safety

COMB Operations Staff specifically performed the following activities:

- Operations staff continues to monitor Ortega reservoir Dam after the repair was completed on a faulty drain pipe which was causing water to back up to the surface on the Dam face. Peter Lapidus Construction, Inc. successfully located the faulty drain pipe, replaced the broken section, and successfully installed a dual directional clean-out for future inspection and maintenance of the underdrain. Representatives from the USBR were on site overseeing construction and continue to monitor the Dam.
- Lateral 1 meter in the Montecito reach was replaced by Lash Construction.
- Additional meters are in the process of inspection to evaluate needs for repair or replacement
- Operations staff reviewed design plans for a project identified through USA dig alerts and collaborated with the City of Santa Barbara and the USBR to protect the easement and pipeline at a creek crossing repair in the upper reach of the system.
- A technician from Emerson was on site and successfully performed routine calibration on both the Lauro Inflow Meter and the Sheffield Southflow Meter.
- Operations staff installed a blind flange to a leaking gate valve that was discovered during a routine blow-off inspection.
- Operations staff continues working diligently to expose and inspect all flapper valves on the Lower Reach to ensure they will function properly in an emergency scenario.
- CALFIRE was on site for five days this month performing brush clearing and weed abatement at Lauro reservoir and Lauro yard.
- Operations staff continually inspects all sites, reservoirs, and the South Coast Conduit for any issue that may require attention immediately or at a later date as future IIP projects.

Operations staff has also been largely involved in the current IIP projects, a thorough investigation of the Lower Reach AVAR conditions, and the creation of a meter inventory database for the upcoming meter analysis and water efficiency study, as well as activities related to the EPFP.

Operations' current IIP projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation & Replacement

- Lauro Stop Valve Replacement
- 2016 Watershed Sanitary Survey Update
- North Portal Access Road
- North Portal Jet Flow Control Valve
- Lauro Tunnel Pipe Supports

PICTURES

Ortega Reservoir Drain Replacement



Lateral 1 Meter Replacement

Before

After



CALFIRE



CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: August 22, 2016
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- Water delivery to Hilton Creek is being conducted by water truck and water tanks through an operation run by Reclamation. The operation has been very successful with no known interruptions of flow and recorded acceptable water quality conditions for the Hilton Creek *O. mykiss* population.

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 that 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, normally from April through December 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.

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. An update of the project is provided in a separate Board memo.

Transfer of Hilton Creek Releases from HCEBS gravity flow to Truck and Tank flow: The Adaptive Management Committee (AMC) requested that U. S Bureau of Reclamation (USBR) work in collaboration with the National Marine Fisheries Services (NMFS), California Department of Fish and Wildlife (CDFW) and COMB to rescue fish in Hilton Creek as the fish releases decreased from the transfer of flow from HCEBS gravity flows to truck and tank flows. The operation was conducted in preparation for the 2016 WR 89-18 releases and was successfully done on 7/11/16. Flows went from approximately 0.8 cfs from HCEBS gravity to approximately 0.03 cfs from truck and tank flows. The system appears to have been

providing reliable flows with acceptable water quality conditions to Hilton Creek since the system was put into operation.

WR 89-18 Release Monitoring: BiOp required monitoring for the WR 89-18 releases started at the beginning of July as requested by USBR and will continue until after the releases are stopped. WR 89-18 releases began on 7/12/16 after 8 AM and are conducted by the Santa Ynez River Water Conservation District in collaboration with USBR. As requested by USBR and approved by NMFS, migrant trapping was conducted at two locations (just downstream of the Stilling Basin and Long Pool of the Lower Santa Ynez River mainstem) for the first approximately two weeks of the release (7/12/16 to 7/26/16). As of 7/21/16 at both locations non-native warm water species have been observed and 5 *O. mykiss* were observed (3 at the SB site and 2 at the LP site).

Tributary Project Updates:

Quiota Creek Crossing 0A: COMB received a 2014 CDFW-FRGP Grant for \$671,635 with a landowner construction match of \$50,000. The project and funding was discussed at the 3/1/16 Fisheries Committee and the COMB Board accepted the grant on 3/23/15. Staff and HDR have met several times with the two landowners associated with the project. The downstream landowner at Crossing 0A is in full agreement with the project and designs whereas the upstream landowner at Crossing 0B has declined the project. All resources have now been shifted to Crossing 0A which we plan to construct this fall 2016 pending design approval and acquiring permits. The COMB Board approved the project through Resolution 612 on 5/23/16. Designs have been submitted to the County and CDFW-NMFS for final approval. All permits have been submitted. The project is expected to go to construction after a competitive bid process in the fall of this year.

Quiota Creek Crossing 4: COMB was awarded a 2015 CDFW-FRGP Grant on 3/30/15 for \$938,295 with a COMB construction match of \$50,000. The project and funding was discussed at the 3/1/16 Fisheries Committee and accepted by the COMB Board on 3/28/16. The COMB Board approved the project through Resolution 613 on 6/27/16. Designs have been submitted to the County and CDFW-NMFS for final approval. All permits have been submitted. The project is expected to go to construction after a competitive bid process in the fall of this year.

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. If funded, the project would most likely be built in the fall of 2017 pending design approval and permit acquisition.

Quiota Creek Crossing 8: This project and the required Cooperative Agreement with the County 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 can then submit a CalTrans grant application to fund the project which should go out within a month. The announcement of grant awards will be expected within a few months after the grant is submitted.

Salsipuedes Creek – Jalama Road Fish Ladder: This project was reviewed by CDFW during a site visit on 6/3/16. CDFW is discussing the recommendations and is looking for funding for the project.

El Jaro Creek – Cross Creek Ranch Fish Passage Facility: This project was reviewed by CDFW during a site visit on 6/3/16. CDFW is discussing the recommendations and is looking for funding for the 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 USBR. The HCEBS was completed at the end of January 2016. An additional contract modification (Mod-005) is in process to have the contractor install security fencing and lighting for the HCEBS. With this system fully operational, USBR can now work on identified repairs to the HCWS which will be scheduled at some point.

Surcharge Water Accounting

The following table summarizes the amount of Surcharge water used to date from each of the three accounts at the end of last month (Table 1). All numbers come from USBR’s Daily Operations Report. The start time for the use of the Surcharge Water Accounts was 5/27/11, or the last day of full surcharge. As of May 2012, all of the Fish Rearing Account waters have been used and USBR is now using Project Yield to meet BiOp target flows. A WR 89-18 release began on 7/15/13 and ended on 12/2/13, another began on 8/18/14 and ended on 11/11/14, another began on 8/3/15 and ended on 9/26/15, and the 2016 WR 89-18 release started on 7/12/16. 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. What remains of 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 by NMFS hence is not reflected in Table 1.

Table 1: Summary of the surcharge water accounting and use of Project Yield.

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	0	3,200
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		15,022	
Total:	9,184	20,655	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 7/31/16.			
*** 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 draft 2013 and 2014 Annual Monitoring Reports. Staff has been providing information to USBR as requested in support of the recent Adaptive Management Committee meetings and operations 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 and reporting work for the Quiota Creek Crossings 0, 4, 5 and 8 projects.

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 22, 2016
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Quiota Creek Crossing 4 Fish Passage Improvement Project – Temporary Indemnification Letter between COMB and the County of Santa Barbara

SUMMARY:

The County of Santa Barbara now requires flood area certificates for all completed, current and future projects on S. Refugio Road where it crosses Quiota Creek. A flood area certificate is a signed acknowledgement by the impacted landowner that a bridge project over the creek will change the existing conditions of the flood area extent during the 100-year flow event. COMB, in collaboration with our design engineer from HDR for all Quiota Creek projects, developed and submitted both the upstream and downstream landowners' individual flood area certificates for each completed and pending crossings with sufficient design level (Crossings 1, 2, 3, 4 and 7) for their consideration and signature. There are three ranches along S. Refugio Road where the road crosses the creek nine times (Crossings 1-9); Alisal Ranch, Mitchell Ranch and Quiota Creek Ranch (Figure 1). To date, the landowners of the Alisal Ranch and Mitchell Ranch have signed all associated flood area certificates. Mr. Slavik, owner of the Quiota Creek Ranch, has been approached multiple times but continues to deliberate and has not signed any of the four pending flood area certificates on his property.

The flood area certifications signed by the Alisal and Mitchell Ranches and have been received by COMB and submitted to the County on July 5, 2016. The pending unsigned certificates are the four projects along the boundary of the Quiota Creek Ranch owned by Mr Slavik. The COMB Board recognized the immediacy of the County required documentation last year while preparing to go to construction for the Crossing 3 Project. The Board opted to enter into a temporary indemnification agreement with the County for the upstream area of that project since Mr. Slavik was not responsive to our request to sign the flood area certificate for that upstream section. The project was successfully completed that fall and Mr. Slavik was pleased with the results of the project.

Mr. Slavik has requested that COMB and the County address constructing Crossing 8 before Crossing 4 due to his grave concern over ready access for firefighting equipment to the upper Quiota Creek watershed (his concern was expressed particularly during the Sherpa fire) and West Camino Cielo which prohibits wide and heavy loads over the temporary County bridge at Crossing 8.

The Quiota Creek Crossing 4 Project is scheduled for construction this fall. Mr. Slavik continues to be nonresponsive for the requested downstream flood area certificate for this project. The certificate for the upstream area of the project on the Alisal Ranch has been signed and submitted to the County. To get this project completed and obtain the pending Encroachment Permit for the project, the COMB Board will need to consider entering into a similar indemnification agreement with the County similar to the Crossing 3 Project to meet the terms of the County Encroachment Permit process. Factors that need to be considered are as follows:

- The Crossing 4 Project is located in a rural area (Figure 2) which is historically and currently being used for cattle grazing and has no infrastructure or utilities of any type except for S. Refugio Road which is owned and maintained by the County.
- The Crossing 4 Project, once complete, will decrease the flood area during the 100-year event for the downstream property as determined by our design engineers at HDR, specifically on Mr. Slavik's property (Figure 3), suggesting that the liability is extremely low.
- COMB has held two recent landowner meetings, the last meeting with a County representative present, to explain and facilitate this process. Mr. Slavik was not available but the other two landowners attended and clearly understood the situation. Each has engaged in independent conversations with Mr. Slavik to encourage collaboration to swiftly meet mutual objectives.
- The County in collaboration with COMB will be submitting soon a CalTrans grant application for the needed bridge replacement at Crossing 8, which is of highest concern and desire for replacement by the three landowners in the area. This project could get funded in the near future. If so, it could be constructed as soon as in the fall of 2017 and is a significant motivator for all three landowners along this section of S. Refugio Road to cooperate in a timely manner.
- Mr. Slavik is not cooperating with the Quiota Creek Crossing 4 Project as a way to encourage the County and COMB to address the Crossing 8 Project prior to other projects.
- By constructing the Quiota Creek Crossing 4 Project as soon as possible, we 1) remove this perceived leverage point for Mr. Slavik and 2) move the Crossing 8 Project much closer to construction if the pending CalTrans grant is not awarded to the County and normal project funding would be applied through a CDFW-FRGP grant.

The County will not issue the pending Encroachment Permit for the Quiota Creek Crossing 4 Project without the signed flood area certificate from the downstream landowner or an indemnification agreement. The County is aware of the situation and has suggested that COMB provide a temporary indemnification letter to the County for the increased potential of flood damages from the current condition to the finished project condition for the 100-year flood until the flood area certificate is signed by Mr. Slavik. That temporary indemnification agreement letter is presented as Exhibit 2 for your review and consideration. Again, this suggestion was successfully implemented for the Quiota Creek Crossing 3 Project in the fall of 2015.

FINANCIAL IMPACT:

The County Encroachment Permit Fee of \$30,303 has been invoiced and partially paid; it will be paid in full prior to initiating construction.

LEGAL CONCURRENCE:

COMB legal counsel reviewed and approved the temporary indemnification letter.

ENVIRONMENTAL COMPLIANCE:

All permits have been obtained except for the County Encroachment Permit.

COMMITTEE STATUS:

The Fisheries Committee reviewed the draft temporary indemnification letter and forwards to the Board with a recommendation to approve.

RECOMMENDATION:

The Board approve transmittal of the temporary indemnification letter to the County of Santa Barbara.

LIST OF EXHIBITS:

Exhibit 1: Figure 1, Figure 2 and Figure 3.

Exhibit 2: Temporary Indemnification Letter.

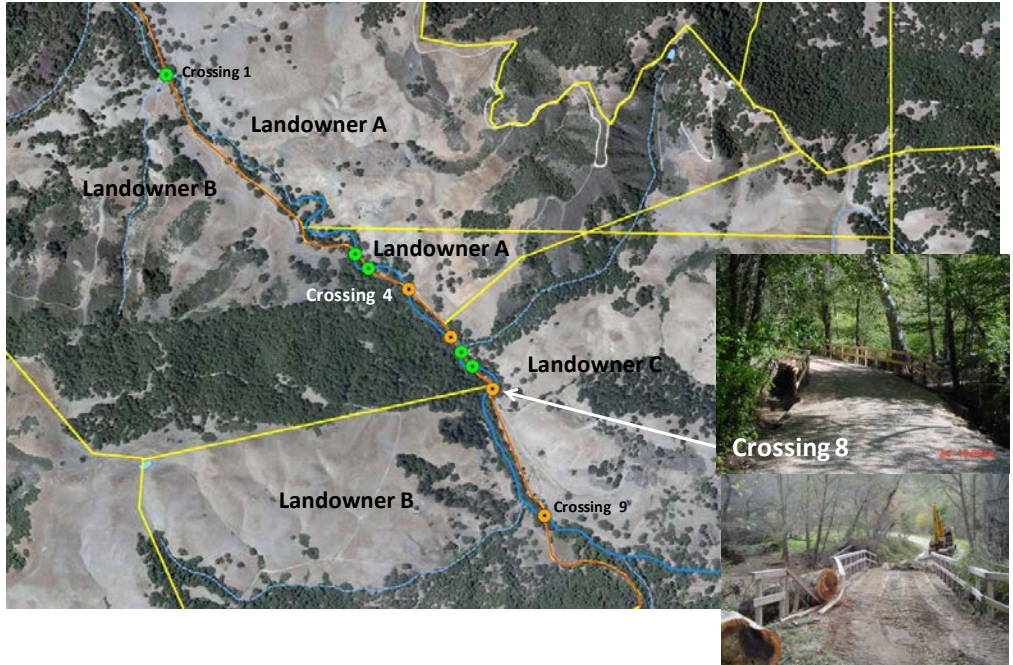


Figure 1: Overview of the Quiota Creek drainage from Crossing 1 through Crossing 9 showing the parcels of three landowners (A Quiota Creek Ranch, B – Alisal Ranch, and C – Mitchell Ranch).

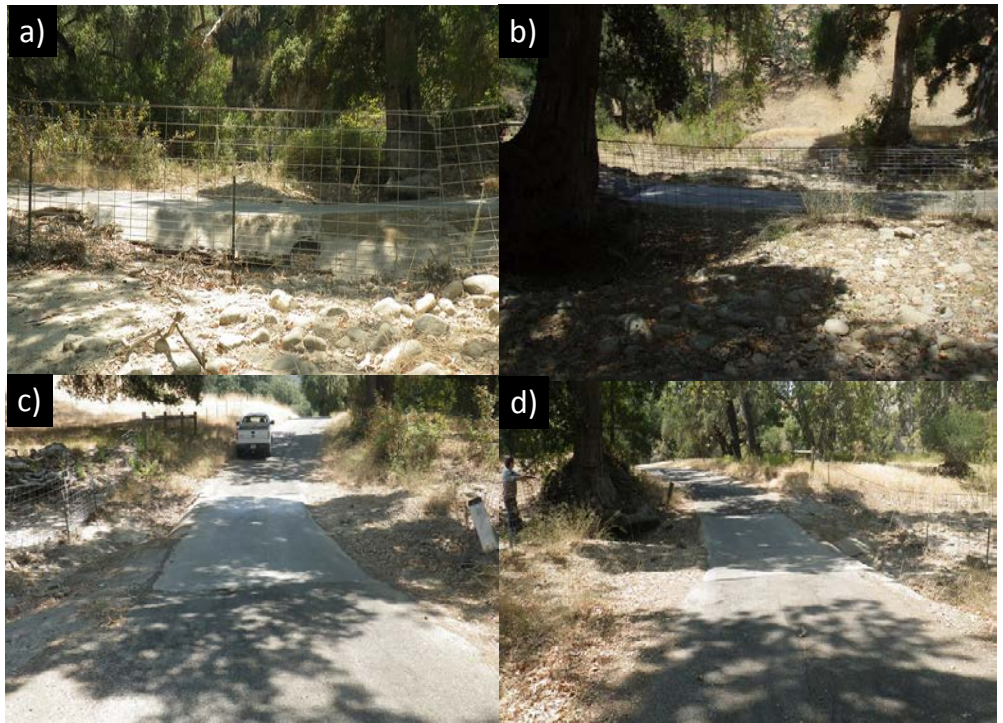


Figure 2: Quiota Creek Crossing 4 looking a) upstream from below the crossing, b) downstream from above the crossing, c) east as the road crosses the creek and d) west as the road crosses the creek.

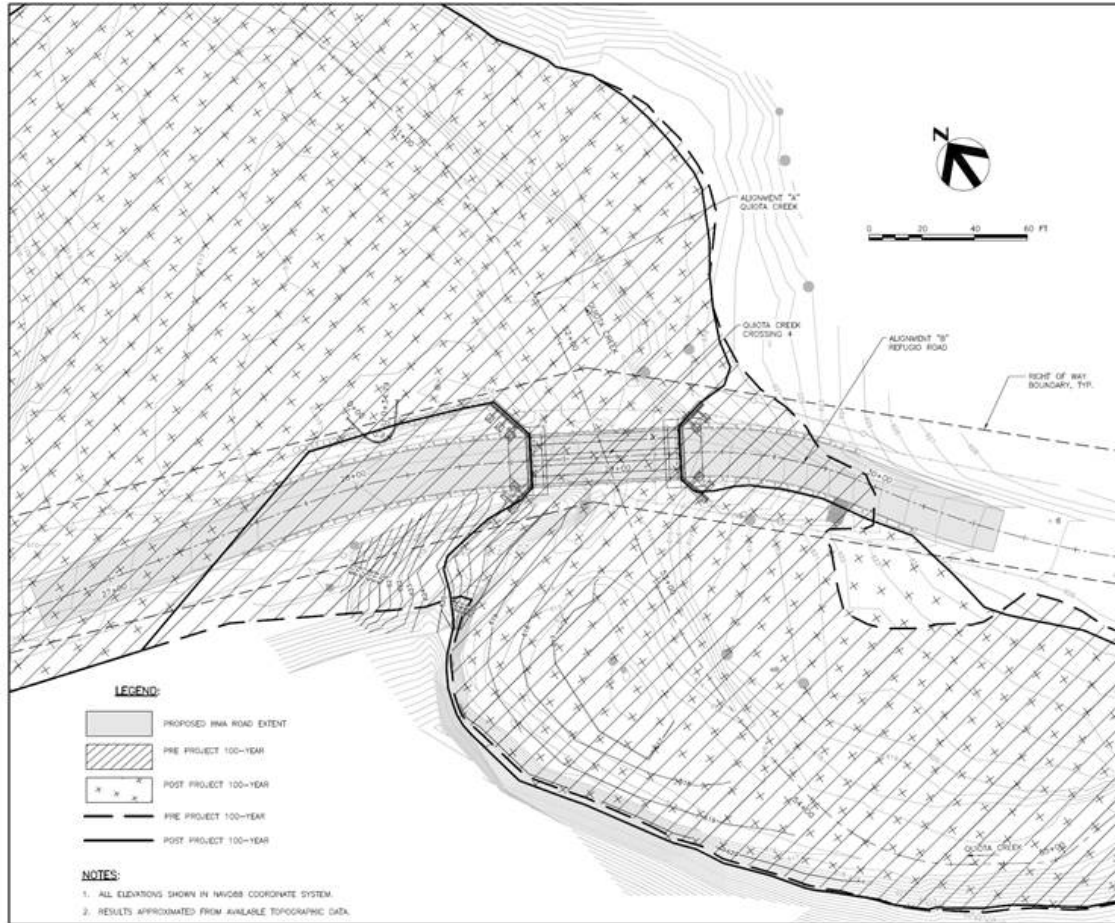


Figure 3: Flood area extent for the 100-year event for the current and proposed conditions (Source: HDR Fisheries Design Center).



CACHUMA OPERATION AND
MAINTENANCE BOARD
3301 Laurel Canyon Road
Santa Barbara, California 93105-2017
Telephone (805) 687-4011 FAX (805)569-5825

August 22, 2015

To: Mr. Scott McGolpin, Public Works Director
Public Works Department, Transportation Division
County of Santa Barbara
123 E. Anapamu Street
Santa Barbara, CA 93101

Re: County of Santa Barbara Development/Encroachment Permit No. DO190069
("Permit") - Quiota Creek Crossing 4 Project ("Project")

Dear Mr. McGolpin,

As you know, COMB has been working on removing a fish passage barrier for the endangered southern steelhead (*Oncorhynchus, mykiss*) at Crossing 4 of S. Refugio Road over Quiota Creek in the Santa Ynez Valley. The project entails removing a low flow concrete stream crossing and its damaged culvert with a 54-foot bridge. The project is in a rural area with no upstream or downstream infrastructure. The primary land use in the area is cattle grazing. The project will provide complete passage of juvenile and adult steelhead while vastly improving road safety and access across the stream.

As you are aware from last year, as a condition of issuing an Encroachment Permit, the County has now required that each landowner immediately upstream and downstream must sign a flood area certificate that acknowledges a possible change in flood elevations at the highest of design flows (100-year event) due to the installation of the proposed bridge ("certificate"). We understand that the certificate requirement was imposed pursuant to the variance issued for the Project. We are working with the landowners to secure those certificates. While this process is moving forward, COMB desires to commence construction of the subject project during the very brief construction window (September through December) in order to comply with all applicable regulatory requirements and to complete the project before the winter. The upstream landowner has signed the flood area certificate and it has been submitted and accepted by the County. (See a copy of the attached signed certificate). Pending is the downstream landowner flood area certificate.

As noted in the certificate, COMB recites and the landowner acknowledges the potential for damages from elevated flooding upstream caused by the proposed project above current conditions for the 100-year flood. Therefore, during the interim period while we await the flood area certificate from the immediate downstream landowner, consistent with the provisions set forth in the Permit, COMB will indemnify and hold harmless the County of

Santa Barbara, its officers, employees and agents from any claims, expense or costs, damages or liability arising out of the Permit or occasioned by the performance or attempted performance of this Permit, including those relating to the immediate downstream landowner (hereinafter referred to as "Temporary Indemnification") . In that there is no infrastructure downstream of the Project site, the potential damages would include, but not be limited to, bank failure or loss of a riparian corridor tree from root zone scour. The Temporary Indemnification would be for a limited period of time; in particular, the interim period until such time when the flood area certificate has been signed by the immediate downstream landowner and submitted to the County.

COMB appreciates the County's collaboration on this matter to address fish passage for the endangered steelhead in Quiota Creek and improve road safety and access along S. Refugio Road.

Sincerely,

Douglas Morgan
COMB Board President

CC: Chris Sneddon, Deputy Director, County of Santa Barbara

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 22, 2016
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: Lake Cachuma Oak Tree Restoration Program

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since January, 2016 to the present (1/1/16 – 8/20/16, Table 1). Labor and expenses for the entire fiscal year (July 2016 - June 2017) as well as water usage will be tracked separately but not reported as recommended by the COMB Board 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 inventory of all trees planted has been presented to the Lake Cachuma Oak Tree Committee at its 2/25/16 meeting as well as the 2015 Lakeshore Survey, which sets the mitigation number for 2015. Both the 2014 Annual Report and 2015 Lakeshore Survey have been completed and distributed to the COMB Board.

Table 1: Cachuma Oak Tree Program completed tasks since January, 2016.

	Jan 2016	Feb 2016**	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016
Year 8 Oaks (2015-2016)	New Trees	New Trees	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated
	Gopher Baskets	Gopher Baskets	Weeded		Weeded	Weeded	Weeded	Weeded
	Fert/Comp	Fert/Comp						
	Deer Cages	Deer Cages						
	Mulch/Irrigated	Mulch/Irrigated						
Year 7 Oaks (2014-2015)		Weeded	Irrigated	Irrigated		Irrigated	Irrigated	Irrigated
		Mulched	Mulched	Weeded		Weeded	Weeded	Weeded
			Weeded			Mulched	Mulched	
Year 6 Oaks (2010-2011)					Irrigated			
					Weeded			
Year 5 Oaks (2009-2010)								Irrigated Weeded
Year 4 Oaks (2008-2009)			Cage maint.		Irrigated			
Year 3 Oaks (2007-2008)			Cage maint.		Irrigated			
Year 2 Oaks (2006-2007)					Irrigated			
Year 1 Oaks (2005-2006)						Irrigated	Irrigated	

**February work included Year 8 oak tree inventory.

The Fisheries Division has been hard at work this summer keeping up with the irrigation demands of the Oak Tree Program, using both the newly purchased 2,000 gallon water truck and the existing 1,000 gallon water trailer. The acquisition of a water truck has enabled 2 separate irrigation teams to work simultaneously which is vastly improving our efficiency with fewer trips to fill the tank and more time spent watering the trees. Irrigation of the newer Year 7 and Year 8 trees is ongoing and continues to be the highest priority. A round of irrigation is currently being conducted on the Year 5 trees (planted in 2009-2010) as well. Staff is hand weeding during irrigation, as well as adding mulch to trees that need supplementing.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

N/A

15-16 ENTITLEMENT

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF July 2016 AND THE WATER YEAR TO DATE**

(All in rounded Acre Feet)

	MONTH					YTD
	TOTAL					TOTAL
WATER PRODUCTION:						
Cachuma Lake (Tec. Diversion)				1,751		12,264
Tecolote Tunnel Infiltration				92		770
Cachuma Lake (County Park)				3		17
State Water Diversion Credit				1,196		6,131
Bishop Ranch Diversion				0		100
Meter Reads				509		6,126
So. Coast Storage gain/(loss)				55		48
Total Production				1,845		13,051
Total Deliveries				1,761		12,405
Unaccounted-for				84		647
% Unaccounted-for				4.58%		4.95%
	GWD	SB CITY	MWD	CVWD	SYRWCD	TOTAL
					I.D. #1	
WATER USE:						
M&I	0	0	312	62	3	377
Agricultural	0	0	33	100	0	133
	0	0	345	162	3	510
Unaccounted Reconciliation~						
M&I	0	28	29	9	0	66
Agriculture	5	0	0	13	0	18
Total Unaccounted	5	28	29	22	0	84
Total for Month	5	28	374	184	3	594
Same Mo/prev. yr	0	90	0	0	2	92
M&I Yr to date	1,034	1,969	1,884	369	17	5,273
Ag. Yr to date	434	0	205	506	0	1,145
TOTAL YTD	1,468	1,969	2,089	875	17	6,418
USAGE % YTD	68.3%	45.8%	60.8%	75.9%	31.8%	57.8%
Previous Year/YTD	1,585	1,172	0	483	14	3,254
Evaporation #	13	46	32	9	1	101
Evaporation, YTD	13	46	32	9	1	101
Entitlement ***	0	0	0	0	0	0
Carryover	2,168	4,399	3,486	1,165	56	11,274
Carryover Balances Spilled YTD	0	0	0	0	0	0
Surplus^^	0	0	0	0	0	0
State Water Exchange^	0	0	0	0	0	0
Unaccounted Credit (SWP report)	21	102	0	0	0	123
Transfers/Adjustment #	0	0	0	0	0	0
Transfers/Adjustment	0	0	0	0	0	0
Passthrough H2O**	0	0	0	0	0	0
TOTAL AVAILABLE	2,168	4,399	3,486	1,165	56	11,274
REMAINING BALANCE	708	2,486	1,365	281	38	4,878

*** Per USBR advisory letter dated 7/2/2015 to SB County, zero (0) of entitlement allocated.

** City is operating under pass through mode declared November 2008.

State Water Deliveries for July to Lake Cachuma were: MWD 0 AF; CVWD 0 AF
GWD 600 AF (Morehart 7 AF); City of S.B. 541 AF; and LaCumbre 91 AF; (Ratheon 3 AF).

^ Per SWP Exchange Agrmt GWD received 0 AF; MWD received 0 AF;
City of SB received 0 AF; and CVWD received 0 AF from ID#1 in July 2016.

Per USBR email dated 12/23/2015, evap charged to unallocated water until unallocated water is exhausted.

Unallocated water was exhausted during the month of July 2016. Prorated evaporation was applied.

~ Reconciliation of unaccounted water - (July 84 AF) See Unaccounted Allocation Worksheet

**Unaccounted-for Water Allocations
JULY 2016**

Total Unaccounted-for Water:	Acre-feet (AF)	84
-------------------------------------	-----------------------	----

Lauro Reservoir Evaporation (LE):	8.8
Cater Treatment Plant Loss (CTPL):	0.9
Ortega Toe Drain Loss (OTD):	1.0
Total Identified Loss:	10.7

Pipeline Loss (PL) Remaining (AF):	73.3
---	------

Pipeline Loss (PL) by Use Area:		
Use Area	% System Capacity	Pipeline Loss (AF)
Use Area 1	9%	6.6
Use Area 2	64%	46.9
Use Area 3	5%	3.7
Use Area 4	22%	16.1
Total	100%	73.3

Delivery & Use Amounts	(AF)
GWD Metered Deliveries	523.33
Overlap Amount	49.48
City Metered Deliveries	572.82
Sheffield Pump Stn Production	169.77
MWD Metered Deliveries	344.92
CVWD Metered Deliveries	261.56
Total Lauro/Cater Use (AF):	1179.3

Lauro & Cater Loss (LE + CTPL) = 8.78 AF		
Agency	% of Loss	Loss (AF)
GWD	4%	0.4
City	44%	3.9
MWD	29%	2.6
CVWD	22%	1.9

Use Area 1			
Agency	Deliveries (AF)	DEL %	Loss (AF)
GWD	572.81	34%	2.2
City	523.34	31%	2.0
MWD	344.92	20%	1.3
CVWD	261.56	15%	1.0
Total	1702.63	100%	6.6

Use Area 2			
Agency	Deliveries (AF)	DEL %	Loss (AF)
GWD	49.48	4%	2.0
City	523.34	44%	20.8
MWD	344.92	29%	13.7
CVWD	261.56	22%	10.4
Total	1179.3	100%	46.9

Use Area 3			
Agency	Deliveries (AF)	DEL %	Loss (AF)
City	169.77	22%	0.8
MWD	344.92	44%	1.6
CVWD	261.56	34%	1.2
Total	776.25	100%	3.7

Use Area 4			
Agency	Deliveries (AF)	DEL %	Loss (AF)
MWD	344.92	57%	9.2
CVWD	261.56	43%	7.0
Total	606.48	100%	16.1

SUMMARY: UNACCOUNTED-FOR WATER ALLOCATIONS

	Lauro & Cater Loss (LE + CTPL)	Ortega Toe Drain (OTD)	Use Area 1	Use Area 2	Use Area 3	Use Area 4	Total (AF)	Rounded Total (AF)
GWD	0.4	0.0	2.2	2.0	0.0	0.0	4.6	5
City	3.9	0.0	2.0	20.8	0.8	0.0	27.6	28
MWD	2.6	0.5	1.3	13.7	1.6	9.2	28.9	29
CVWD	1.9	0.5	1.0	10.4	1.2	7.0	22.1	22
Total	8.8	1.0	6.6	46.9	3.7	16.1	83.1	83

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTHS

June 2016

July 2016

GLEN ANNIE RESERVOIR

Capacity at 385' elevation:	518	AF	
Capacity at sill of intake at 334' elevation:	21	AF	
Stage of Reservoir Elevation	333.00	Feet	333.00
Water in Storage	21.82	AF	21.82

LAURO RESERVOIR

Capacity at 549' elevation:	600	AF	
Capacity at sill of intake at 512' elevation:	84.39	AF	
Stage of Reservoir Elevation	546.50	Feet	549.00
Water in Storage	539.68	AF	590.65

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF	
Capacity at outlet at elevation 440':	0	AF	
Stage of Reservoir Elevation	444.00	Feet	444.70
Water in Storage	10.40	AF	12.47

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF	
Capacity at outlet elevation 362':	0	AF	
Stage of Reservoir Elevation	376.00	Feet	376.90
Water in Storage	25.69	AF	27.72

TOTAL STORAGE IN RESERVOIRS

	575.77	AF	630.85
Change in Storage	39.65	AF	55.08

CACHUMA RESERVOIR*

Capacity at 750' elevation:	184,121	AF	
Capacity at sill of tunnel 660' elevation:	24,281	AF	
Stage of Reservoir Elevation	663.37	Feet	655.05
Water in Storage	27,154	AF	20,268
Surface Area	873		787
Evaporation	914.9	AF	856.1
Computed Inflow	496.5	AF	712.6
Downstream Release WR8918	0.0	AF	6292.0
Fish Release (Hilton Creek)	53.0	AF	18.7
Outlet	65.0	AF	22.3
Spill/Seismic Release	0	AF	0
State Project Water	1259.3	AF	1340.5
Change in Storage	-836	AF	-6886.0
Tecolote Diversion	1,559.3	AF	1750.5

July Data

Rainfall: **Month:** 0.00 **Season:** 0 **Percent of Normal:** 0%

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #75R-1802

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: Carpinteria Valley Water District
 Last updated by C.O.M.B. 7/31/16

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT	
	M & I	Agr		Total	M & I	Agr	Total	Evap	Div	M & I	AG	M & I	AG
Oct	56	84	140	0	140	140	0	140	56	84	0	0	0
Nov	20	32	52	0	52	52	0	52	20	32	0	0	0
Dec	47	60	107	0	107	107	0	107	47	60	0	0	0
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	1	0	1	0	1	1	0	1	0	0	0	0	0
Apr	13	16	29	0	29	29	0	29	13	16	0	0	0
May	52	62	114	0	114	114	0	114	52	62	0	0	0
Jun	109	138	247	0	247	247	0	247	109	138	0	0	0
Jul	71	113	184	9	184	193	9	184	74	119	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	369	505	874										

CONVERSIONS

Month	STORAGE WATER		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	AG	M&I	AG
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	0	0	0	0	0
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Apr	0	0	0	0	0	0
May	0	0	0	0	0	0
Jun	0	0	0	0	0	0
Jul	0	0	0	0	0	0
Aug	0	0	0	0	0	0
Sep	0	0	0	0	0	0
Total			1,165	600	565	0

REMAINING BALANCES

Month	Total		REMAINING BALANCES	
	M&I	AG	M&I	AG
Oct	544	481	0	0
Nov	973	449	0	0
Dec	866	389	0	0
Jan	866	389	0	0
Feb	866	389	0	0
Mar	866	389	0	0
Apr	836	373	0	0
May	722	311	0	0
Jun	475	173	0	0
Jul	282	54	0	0
Aug				
Sep				
Total	1,025	481	0	0

TOTAL 282

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

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 7/31/16

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT			
	M & I	Agr		total	Evap	Acre-feet		M & I	Agr	M & I	Agr	M & I	Agr	M & I	Agr
						Div	Total								
Oct	263	34	297	0	297	263	34	0	0	263	34	0	0	0	
Nov	174	25	199	0	199	174	25	0	0	174	25	0	0	0	
Dec	177	15	192	0	192	177	15	0	0	177	15	0	0	0	
Jan	80	6	86	0	86	80	6	0	0	80	6	0	0	0	
Feb	16	1	17	0	17	16	1	0	0	16	1	0	0	0	
Mar	133	9	142	0	142	133	9	0	0	133	9	0	0	0	
Apr	192	23	215	0	215	192	23	0	0	192	23	0	0	0	
May	249	27	276	0	276	249	27	0	0	249	27	0	0	0	
Jun	259	32	291	0	291	259	32	0	0	259	32	0	0	0	
Jul	341	33	374	32	374	341	33	32	374	370	36	0	0	0	
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1,884	205	2,089												

Month	STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	Agr	M & I	Agr
Oct	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0
Total	0	0	0	0	3,486	263	3,223	0

Month	REMAINING BALANCES	
	M & I	Agr
Oct	3,189	313
Nov	2,990	288
Dec	2,798	273
Jan	2,712	267
Feb	2,695	266
Mar	2,553	257
Apr	2,338	234
May	2,062	207
Jun	1,771	175
Jul	1,365	139
Aug		
Sep		
Total	3,189	313

TOTAL 1,365

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #75R-1802

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: **City of Santa Barbara**
 Last updated by **C.O.M.B. 7/31/16**

Month	TOTAL WATER USED		WATER USE CHARGED TO CARRYOVER BALANCES				WATER USE CHARGED TO CURRENT ENTITLEMENT	
	M & I	Agr	Evap	Div	Total	M & I	Agr	Total
Oct	667	0	0	667	667	667	0	0
Nov	487	0	0	487	487	487	0	0
Dec	447	0	0	447	447	447	0	0
Jan	34	0	0	34	34	34	0	0
Feb	85	0	0	85	85	85	0	0
Mar	147	0	0	147	147	147	0	0
Apr	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0
Aug	0	0	46	0	46	0	0	0
Sep	0	0	0	0	0	0	0	0
Total	1,867	0			1,867			

Month	STORAGE WATER		CONVERSIONS		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	Agr
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	0	0	0	0	0
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Apr	0	0	0	0	0	0
May	0	0	0	0	0	0
Jun	0	0	0	0	0	0
Jul	0	0	0	0	0	0
Aug	0	0	0	0	0	0
Sep	0	0	0	0	0	0
Total					4,399	0

Month	REMAINING BALANCES	
	M & I	Agr
Oct	3,732	0
Nov	3,245	0
Dec	2,798	0
Jan	2,764	0
Feb	2,679	0
Mar	2,532	0
Apr	2,532	0
May	2,532	0
Jun	2,532	0
Jul	2,486	0
Aug	2,486	0
Sep	2,486	0
Total	3,732	0

TOTAL 2,486

SUMMARY OF WATER USED
CACHUMA PROJECT - CONTRACT #75R-1802

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: Santa Ynez River Water Conservation District, ID#1
 Last updated by C.O.M.B. 7/31/16

Month	TOTAL WATER USED		WATER USE CHARGED TO CARRYOVER BALANCES				WATER USE CHARGED TO CURRENT ENTITLEMENT	
	M & I	Agr	Evap	Div	Total	M & I	Agr	Total
Oct	2	0	0	2	2	0	0	0
Nov	1	0	0	1	1	1	0	0
Dec	1	0	0	1	1	1	0	0
Jan	1	0	0	1	1	1	0	0
Feb	1	0	0	1	1	1	0	0
Mar	1	0	0	1	1	1	0	0
Apr	2	0	0	2	2	2	0	0
May	2	0	0	2	2	2	0	0
Jun	3	0	0	3	3	3	0	0
Jul	3	0	1	3	4	4	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0
Total	18	0	0	18	18	56	0	56

CONVERSIONS

STORAGE WATER	Month	Current Schedule	Previous Year
M & I	Oct	0	0
Agr	Nov	0	0
	Dec	0	0
	Jan	0	0
	Feb	0	0
	Mar	0	0
	Apr	0	0
	May	0	0
	Jun	0	0
	Jul	0	0
	Aug	0	0
	Sep	0	0

SCHEDULE AND REVISIONS

Month	Begin Bal	M & I	Agr	Total
Oct	56	0	0	56
Nov	0	0	0	0
Dec	0	0	0	0
Jan	0	0	0	0
Feb	0	0	0	0
Mar	0	0	0	0
Apr	0	0	0	0
May	0	0	0	0
Jun	0	0	0	0
Jul	0	0	0	0
Aug	0	0	0	0
Sep	0	0	0	0

COUNTY PARKS

Month	A.F. Used	M & I	Agr	Total
Oct	1.61	0	54	54
Nov	1.38	0	53	53
Dec	1.38	0	52	52
Jan	0.97	0	51	51
Feb	1.26	0	50	50
Mar	1.41	0	49	49
Apr	2.21	0	47	47
May	2.32	0	45	45
Jun	2.66	0	42	42
Jul	2.80	0	38	38
Aug				
Sep				

*NOTE:

TOTAL 37

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

Contract Entity: Santa Barbara Co. Water Agency
 Last updated by C.O.M.B. 7/31/16

Contract Year: 10/1/15 to: 9/30/16

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT				
			Use %	Acre-feet		Evap	Acre-feet		M & I	Acre-feet			
				M & I	Agri		Total	Div		Total	M & I	Agri	Total
Oct	0	11274	14.84%	1,385	288	1,673	0	1,673	1,385	288	0	0	0
Nov			10.60%	1,001	194	1,195	0	1,195	1,001	194	0	0	0
Dec			10.39%	990	181	1,171	0	1,171	990	181	0	0	0
Jan			1.07%	115	6	121	0	121	115	6	0	0	0
Feb			0.92%	102	1	103	0	103	102	1	0	0	0
Mar			2.58%	282	9	291	0	291	281	9	0	0	0
Apr			2.18%	207	39	246	0	246	207	39	0	0	0
May			3.48%	303	89	392	0	392	303	89	0	0	0
Jun			4.80%	371	170	541	0	541	371	170	0	0	0
Jul			5.87%	415	146	561	101	662	494	168	0	0	0
Aug				0	0								
Sep				0	0								
Total	0	11274		5,172	1,123	6,295							

CONVERSIONS

STORAGE WATER		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
M & I	Agri	M & I	Agri	M & I	Agri
2	-2	0	0	9,668	1,606
1	-1	0	0	0	0
1	-1	0	0	0	0
1	-1	0	0	0	0
1	-1	0	0	0	0
2	-2	0	0	0	0
2	-2	0	0	0	0
3	-3	0	0	0	0
4	-4	0	0	0	0
Begin Bal		11,274	1,606		
Total		11,274	1,606		

COUNTY PARKS

Month	A.F. Used		REMAINING BALANCES	
	M & I	Agri	M & I	Agri
Oct	1.61	9,601	8,285	1,400
Nov	1.38	8,406	7,285	1,205
Dec	1.38	7,235	6,296	1,023
Jan	0.97	7,114	6,182	1,016
Feb	1.26	7,011	6,081	1,014
Mar	1.41	6,719	5,801	1,004
Apr	2.21	6,473	5,596	963
May	2.32	6,081	5,295	872
Jun	2.66	5,540	4,927	699
Jul	2.80	4,878	4,437	527
Aug				
Sep				
Total		9,601	8,285	1,400

TOTAL 4,878

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

MONTH	DELVRD TO LAKE	CWWD		Delvd to SC	MWD		Evap/Spill	S.B.		Delvd to Lake	GWD		Evap/Spill	Delvd to SC	LCMWC		Delvd to SC	RSYS		Delvd to Lake	MLC		
		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored			Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored	Delvd to Lake
2015																							
Bal. Fwtd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
January	833	0	0	0	0	0	0	0	0	363	470	201	0	269	0	561	3	44	0	0	0	0	0
February	789	0	0	0	0	0	0	0	0	366	423	492	2	130.1	0	510	5	46	0	0	0	0	0
March	1284	170	52	118	0	282	725	11	195.9	363	462	444	9	501	0	456	9	46	5	0	5	2	0
April	1152	192	130	111	3	331	807	18	231.4	428	193	0	11	626	0	434	11	11	5	0	5	3	0
May	658	108	139	95	4	237	762	23	258.7	305	0	0	0	0	0	413	13	8	5	0	5	3	0
June	371	0	50	84	6	0	507	30	224.7	366	0	0	0	0	0	390	16	6	0	0	0	5	0
July	306	0	0	48	2	0	186	21	299.6	306	0	0	0	0	0	368	16	6	0	0	0	0	0
August	40	0	0	0	0	0	0	12	174	35	0	0	0	0	0	340	24	5	0	0	0	5	0
September	42	0	0	0	0	0	0	0	0	0	0	0	0	0	35	340	22	13	0	0	0	7	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288	15	37	0	0	0	0	0
November	60	20	0	0	0	0	0	0	20	20	0	0	0	0	0	217	9	63	0	0	0	0	0
December	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	5	72	0	0	0	7	0
Total	5542	490	0	475.7	14	870	0	128	1616	2552	1548	0	21	1526	35	140	149	355	15	0	15	32	0

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

MONTH	DELVRD TO LAKE	CWWD		Delvd to SC	MWD		Evap/Spill	S.B.		Delvd to Lake	GWD		Evap/Spill	Delvd to SC	LCMWC		Delvd to SC	RSYS		Delvd to Lake	MLC		
		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored		Delvd to Lake	Stored			Delvd to Lake	Stored		Delvd to Lake	Stored				
2016																							
Bal. Fwtd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0
January	653	54	38	16	0	0	0	0	367	200	136	0	0	64	30	157	3	10	0	0	0	2	0
February	693	0	36	0	2	125	0	0	366	200	131	0	8	197	0	142	9	6	0	0	2	0	2
March	965	0	33	0	3	0	0	0	367	596	525	1	10	192	0	116	11	14	0	0	0	2	0
April	1283	0	0	29	4	0	0	0	677	178	24	0	5	357	0	53	15	49	3	0	3	0	2
May	1309	0	0	0	0	0	0	28	476	600	697	5	65	405	0	0	8	44	1	0	1	3	0
June	1261	0	0	0	0	0	0	20	463	783	958	4	111	551	85	0	85	5	0	5	5	0	5
July	1342	100	0	100	0	0	0	17	534	600	923	5	141	513	91	52	0	39	3	0	3	7	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	7506	154	0	145	9	125	0	102	65	3065	3679	923	19	456	206	52	46	248	12	0	12	24	0



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



**Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: July 2016**

AIS INSPECTION PROGRAM LAUNCH DATA:

Cachuma Lake Recreation Area Launch Data -- July 2016		
Inspection Data		
Total Vessels entering Park	56	
Total Vessels launched	56	
Total Vessels Quarantined	0	0%
Returning with Boat Launch Tag	0	0%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	56	100%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	0	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	0	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	0	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	0	
Demographic Data		
Quarantined from infected county	0	
Quarantined from SB County	0	
Quarantined from uninfected co	0	

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

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

* These conditions are no longer being tracked.

EARLY DETECTION MONITORING PROGRAM SUMMARY

Summary: No Dreissenid mussels were detected
 Inspection Site: Cachuma Lake Marina, Santa Barbara County, California
 Inspection Date and Time: 2016.07.27; 13:00 – 16:00 PDT
 Method: 6 PVC/Cement Sampling Stations; 112 linear feet of line
 Surveyors: Rosey Bishop (SBCO), Liz Gaspar (SBCO volunteer) and Carrie Culver (Sea Grant)
 Lake elevation: Max feet: 753.00, current: 657.42; Max acre-feet: 193,305, current: 22,160;
 Current capacity: 11.50%