

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

Monday, May 22, 2017

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 April 24, 2017 Regular Board Meeting
 - b. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
- 4. VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Administrative Committee Meeting – May 19, 2017
 - Fisheries Committee Meeting – May 19, 2017
- 5. RESOLUTION NO. 630 – DIRECTOR COMPENSATION**
Action: Recommend approval by motion and roll call vote of the Board
- 6. RESOLUTION NO. 631 - CALPERS EMPLOYERS PAID MEMBER CONTRIBUTIONS - CLASSIC EMPLOYEES**
Action: Recommend approval by motion and roll call vote of the Board
- 7. COMB PROPOSED DRAFT FISCAL YEAR 2017-18 OPERATING BUDGET**
For discussion and possible action by motion and roll call vote of the Board
 - a. Supplementary Information – CalPERS Pension Unfunded Liability

8. RESOLUTION NO. 632 – ACCEPTANCE OF GRANT AGREEMENT WITH CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE FOR FISH PASSAGE IMPROVEMENT AT QUIOTA CREEK CROSSING NUMBER FIVE

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

9. GENERAL MANAGER REPORT

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

- Meetings
- Contract Administration
- Operations Division Activities
- Fisheries Division Activities

10. OPERATIONS DIVISION REPORT

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

- Lake Cachuma Operations
- Operation and Maintenance Activities

11. 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

12. 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

13. 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

14. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

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

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

16. [CLOSED SESSION]: ANNUAL PERFORMANCE REVIEW

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

17. RECONVENE INTO OPEN SESSION

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

15a. Protest of Member Agency re: Payment of Quarterly Assessment

16a. Annual Performance Review

18. MEETING SCHEDULE

- **Regular Board Meeting - June 26, 2017 at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website www.cachuma-board.org**

19. COMB ADJOURNMENT

NOTICE TO PUBLIC

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

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

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

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

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

**MINUTES OF A REGULAR MEETING
of the
CACHUMA OPERATION AND MAINTENANCE BOARD**

held at
3301 Laurel Canyon Road, Santa Barbara, CA
Monday, April 24, 2017

1. Call to Order, Roll Call

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

Directors present:	W. Douglas Morgan	Montecito Water District
	Harwood 'Bendy' White	City of Santa Barbara
	Polly Holcombe	Carpinteria Valley Water District
	Lauren Hanson	Goleta Water District

Others present: Janet Gingras, Edward Lyons, Adriane Passani, Dave Stewart, Tim Robinson, William Carter, Dan Ellison, Tom Fayram, Bruce Wales, Philip Walker

2. Public Comment

Mr. Philip Walker presented articles written for the Center for Risk Analysis regarding an assessment of the Orville Dam resulting in the failure to the main spillway. He expressed concern and suggested the consideration and maintenance of river outlet control valves as a main safely outlet. He reiterated the need for a securely, functional working Safety Outlook System.

3. Consent Agenda

a. **Minutes**

March 27, 2017 Regular Board Meeting

b. **Investment Funds**

- Financial Reports
- Investment Reports

c. **Review of Paid Claims**

General Manager, Janet Gingras, presented the Paid Claims report as provided in the board packet, highlighting two large requisition payments. President Morgan moved to approve the consent agenda with no changes, seconded by Director Holcombe, the motion passed by unanimous roll call vote:

Ayes: White, Holcombe, Hanson, Morgan

Nays: None

Absent: Walsh

4. Verbal Reports From Board Committees

- *Operations Committee Meeting – April 17, 2017:* Operations Division Manager, Dave Stewart, highlighted multiple topics within his report as presented in the Board packet, including general updates on current infrastructure improvement projects. Mr. Stewart fielded questions from the Board.
- *Administrative Committee Meeting – April 17, 2017:* Ms. Gingras summarized the items on the Administrative Committee meeting's agenda, highlighting the staff's intention of developing a Comprehensive Annual Financial Report (CAFR) for the FY 2016-17 financial audit, and fielded questions from the Board.

5. Emergency Pumping Facilities Project: Long-Term Pumping Facility Alternatives:

General Manager, Ms. Gingras, commented in response to a prior recommendation from the Board to investigate the utilization of the pumping facility for other purposes. After inquires with the Bureau, the possibility of purchasing the pumping facility for other uses was not a viable option in the short term. Ms. Gingras also noted the agreement made with Cushman Contracting to reduce the standby rate in contract for the Emergency Pumping Facility from \$51,000 to \$28,500 while in a non-operational state, and to provide time for the Board to come to a decision on the disposition of the facility.

Mr. Dan Ellison, HDR Engineering, Inc. presented the Emergency Pumping Facility Project (EPFP). He reviewed alternatives for the structure as presented in the Board Packet and discussed his recommendation to retain components of the EPFP and extend the contract with the reduced operational fee. After a lengthy discussion, Director Holcombe expressed her appreciation on the extensive studies presented as alternatives for the pumping facility, and conveyed the General Manager's consensus for option 1A going forward, Director Hanson concurred. Director Holcombe moved to approve the motion to execute a Change Order with Cushman Contracting to implement the alternative Option-1A, seconded by Director Morgan, which carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan
Nayes: None
Absent: Walsh

6. Proposed COMB Draft Board Governance Policy

General Manager, Janet Gingras, presented the Draft Board Governance Policy as incorporated in the board packet. Ms. Gingras explained that the policies are designed to suggest the Board's Governance Policy which establishes guidelines for the COMB Board and all those appointed thereafter to serve in the future. Director Holcombe expressed concerns about the possibility to amend the policy going forward, yet agreed the Draft Board Governance Policy is a good starting point. Director Hanson concurred and suggested word modifications and provided notes and edits to be discussed. After a lengthy discussion, Director White recommended an ad hoc committee be formed to review and make those specific edits and present it back to the Board for review. President Morgan recommended to move Item 6 forward to be discussed on May 22nd meeting.

7. Appointment of Representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of Funds Discussion

Director Hanson moved to appoint COMB General Manager, Ms. Janet Gingras, as representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of Funds discussion, seconded by President Morgan, the motion carried 6/0/1 as follows

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent: Walsh

8. Quiota Creek Crossings – Fish Passage Improvement Projects – Final Report

Fisheries Division Manager, Tim Robinson, presented topics within his report as incorporated in the board packet. Mr. Robinson provided a status update regarding the Quiota Creek Crossing 0A repair along with a financial report. He explained the project was to remove the cobble bar under the bridge, and confirmed that the project is complete and on schedule. Mr. Robinson offered to field any questions from the Board. Director White moved to receive and file, seconded by Director Holcombe, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nayes: None

Absent: Walsh

9. General Manager Report

- Meetings
- Cachuma Project Transferred Project Works Contract
- Operations Division Activities
- Fisheries Division Activities

Ms. Janet Gingras, General Manager, presented topics within her report as incorporated in the board packet, providing updates on each current and ongoing deliverables, topics of interest, relevant information, and fielded questions from the board. Ms. Gingras informed the Board that the Bureau of Reclamation (BOR) will begin the process of updating the Bradbury and Lauro SOD contracts in June. Director Hanson offers a recommendation to provide further background and analysis regarding Hilton Creek and related costs. Ms. Gingras highlighted a premium adjustment refund from ACWA/JPIA, reflective of a low paid claims history. She also highlighted an annual Emergency Action Plan training session hosted by the BOR, which was attended by COMB Operations Division.

10. Operations Division Report

- Lake Cachuma Operations
- Operation and Maintenance Activities

Operations Division Manager, Mr. Dave Stewart, noted features as presented in his report which was included in the board packet. Mr. Stewart reported on the seismic event that

occurred Sunday, April 23, 2017, noting COMB Operation's crew responded and performed an inspection per the Bureau of Reclamation Emergency Action Plan.

11. Fisheries Division Report

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

Fisheries Division Manager, Mr. Tim Robinson, noted features as presented in his report which was included in the board packet, providing extra detail to the Board regarding Hilton Creek water delivery to meet target flows, and fielded questions from the Board.

12. Progress Report on Lake Cachuma Oak Tree Program

- Maintenance and Monitoring

Fisheries Division Manager, Mr. Tim Robinson, updated the Board on the progress of the Program, noting that 300 trees have been planted by COMB staff. The obligation is to plant about 800 oak trees and he anticipates proceeding with the planting project for another two years to fulfill the requested commitment. Director White inquired on the status of the grow tubes. Mr. Robinson replied that uses of the tubes are successful as it creates a kind of greenhouse effect whereby condensation collects at the tubes and provides a type of irrigation system supporting growth.

13. Monthly Cachuma Project Reports

Ms. Gingras reviewed the monthly water reports, as included in the board packet, and fielded questions from the Board. She pointed out that as of April 15th, CCWA inflow resumes exceeding inflow to the South Coast.

14. Directors' Requests for Agenda Items for Future Meeting

Director Hanson requested to review Board member compensation at the next Board meeting.

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

The Board went into closed session at 4:15 p.m.

- a. [Government Code Section 54956.9(d)(2)]
Name of matter: Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision
- b. [Government Code Section 54956.9(d)(4)]
Name of matter: Protest of Member Agency Regarding Payment of Quarterly Assessments

16. [CLOSED SESSION]: ANNUAL PERFORMANCE REVIEW

[Government Code Section 54957(b)]

Title: General Manager

17. 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 5:29 p.m.

- a. Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision
No reportable action.
- b. Protest of Member Agency Regarding Payment of Quarterly Assessments
No reportable action.
- c. Annual Performance Review
Reportable action: The Board conducted, evaluated and approved the General Manager's Annual Performance Review and authorized the President of the Board to discuss that review with the General Manager.

1. Meeting Schedule

- **May 22, 2017, 2:00 P.M.** at COMB Offices
- Board Packages Available on COMB Website www.cachuma-board.org

2. COMB Adjournment

There being no further business, the meeting adjourned at 5:30 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 April 30, 2017
UNAUDITED FINANCIALS

ASSETS

Current Assets

Checking/Savings

TRUST FUNDS

1210 · WARREN ACT TRUST FUND

895,869.52

1220 · RENEWAL FUND

63,087.61

Total TRUST FUNDS

958,957.13

1050 · GENERAL FUND

1,836,858.71

1100 · REVOLVING FUND

130,111.15

Total Checking/Savings

2,925,926.99

Accounts Receivable

1320 · Qrtly Assessments Receivable

660,157.00

1325 · Bank Loan Receivable - EPFP

25,747.24

Total Accounts Receivable

685,904.24

Other Current Assets

1010 · PETTY CASH

500.00

1200 · LAIF

817,183.44

1303 · Bradbury SOD Act Assmnts Rec

184,938.00

1304 · Lauro Dam SOD Assesmnt Rec

25,930.00

1400 · PREPAID INSURANCE

27,269.72

Total Other Current Assets

1,055,821.16

Total Current Assets

4,667,652.39

Fixed Assets

1500 · VEHICLES

436,876.93

1505 · OFFICE FURN & EQUIPMENT

440,652.20

1510 · MOBILE OFFICES

97,803.34

1515 · FIELD EQUIPMENT

559,852.38

1525 · PAVING

38,351.00

1550 · ACCUMULATED DEPRECIATION

-1,367,626.55

Total Fixed Assets

205,909.30

Other Assets

1910 · LT Bradbury SOD Act Assess Rec

5,065,821.07

1920 · LT Lauro SOD Act Assess Rec

914,412.00

1922 · Deferred Outflows of Resources (GASB 68)

148,586.00

Total Other Assets

6,128,819.07

TOTAL ASSETS

11,002,380.76

COMB
Statement of Net Assets

As of April 30, 2017
UNAUDITED FINANCIALS

LIABILITIES & NET ASSETS

Liabilities

Current Liabilities

Accounts Payable

2200 · ACCOUNTS PAYABLE

246,013.69

Total Accounts Payable

246,013.69

Other Current Liabilities

2501 · ACCRUED BENEFITS PAYABLE

640.10

2505 · ACCRUED WAGES

37,117.79

2550 · VACATION/SICK

159,283.55

2561 · BRADBURY DAM SOD ACT

184,948.66

2563 · LAURO DAM SOD ACT

25,930.00

2565 · ACCRUED INTEREST SOD ACT

87,008.00

2567 · Loan Payable current EPFP

442,932.00

2590 · DEFERRED REVENUE

1,117,068.13

Total Other Current Liabilities

2,054,928.23

Total Current Liabilities

2,300,941.92

Long Term Liabilities

2602 · LT SOD Act Liability-Bradbury

5,065,811.07

2603 · LT SOD Act Liability - Lauro

914,412.00

2604 · OPEB LT Liability

907,923.00

2605 · Loan Payable - EPFP

1,364,794.42

2610 · Net Pension Liability (GASB 68)

1,160,030.00

2611 · Deferred Inflows of Resources (GASB 68)

224,052.00

Total Long Term Liabilities

9,637,022.49

Total Liabilities

11,937,964.41

NET POSITION

3000 · Opening Bal Equity

-1,357,356.05

3901 · Retained Net Assets

-631,271.21

Net Income

1,053,043.61

Total Net Assets

-935,583.65

TOTAL LIABILITIES & NET POSITION

11,002,380.76

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
Budget vs. Actuals July 2016 - Jun 2017

	Fisheries				Operations				TOTAL			
	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget
Income												
3000 REVENUE												
3001 · O&M Budget (Qtrly Assessments)	1,112,897.00	1,305,904.00	-193,007.00	85.22%	3,918,104.03	4,417,789.00	-499,684.97	88.69%	5,031,001.03	5,723,693.00	-692,691.97	87.9%
3006 · Warren Act	0.00	238,306.00	-238,306.00	0.0%	0.00				0.00	238,306.00	-238,306.00	0.0%
3007 · Renewal Fund	0.00	52,872.00	-52,872.00	0.0%	0.00				0.00	52,872.00	-52,872.00	0.0%
3009 · Pmts - Member Agencies - EPPF	0.00				804,813.03				804,813.03	0.00	804,813.03	100.0%
3010 · Interest Income	0.00				7,072.09				7,072.09	0.00	7,072.09	100.0%
3015 · Watershed Sanitary Survey	0.00				7,258.99				7,258.99	0.00	7,258.99	100.0%
3020 · Misc Income	0.00				5,351.33				5,351.33	0.00	5,351.33	100.0%
3033 · Grant-QC Crossing # 0 (a&b)	0.00	671,635.00	-671,635.00	0.0%	0.00				0.00	671,635.00	-671,635.00	0.0%
3034 · Grant-QC Crossing #4	937,837.95	938,295.00	-457.05	99.95%	0.00				937,837.95	938,295.00	-457.05	99.95%
3035 · Cachuma Project Betterment Fund	77,517.78	90,000.00	-12,482.22	86.13%	0.00				77,517.78	90,000.00	-12,482.22	86.13%
3036 · Landowner Match-QC Crossing 0a	50,000.00				0.00				50,000.00	0.00	50,000.00	100.0%
Total 3000 REVENUE	2,178,252.73	3,297,012.00	-1,118,759.27	66.07%	4,742,599.47	4,417,789.00	324,810.47	107.35%	6,920,852.20	7,714,801.00	-793,948.80	89.71%
Total Income	2,178,252.73	3,297,012.00	-1,118,759.27	66.07%	4,742,599.47	4,417,789.00	324,810.47	107.35%	6,920,852.20	7,714,801.00	-793,948.80	89.71%
Gross Profit	2,178,252.73	3,297,012.00	-1,118,759.27	66.07%	4,742,599.47	4,417,789.00	324,810.47	107.35%	6,920,852.20	7,714,801.00	-793,948.80	89.71%
Expense												
3100 · LABOR - OPERATIONS	0.00				533,923.77	812,375.00	-278,451.23	65.72%	533,923.77	812,375.00	-278,451.23	65.72%
3200 VEH & EQUIPMENT												
3201 · Vehicle/Equip Mtce	0.00				35,462.61	30,000.00	5,462.61	118.21%	35,462.61	30,000.00	5,462.61	118.21%
3202 · Fixed Capital	0.00				3,048.74	15,000.00	-11,951.26	20.33%	3,048.74	15,000.00	-11,951.26	20.33%
3203 · Equipment Rental	0.00				1,151.33	5,000.00	-3,848.67	23.03%	1,151.33	5,000.00	-3,848.67	23.03%
3204 · Miscellaneous	0.00				3,253.08	5,000.00	-1,746.92	65.06%	3,253.08	5,000.00	-1,746.92	65.06%
Total 3200 VEH & EQUIPMENT	0.00				42,915.76	55,000.00	-12,084.24	78.03%	42,915.76	55,000.00	-12,084.24	78.03%
3300 · CONTRACT LABOR												
3301 · Conduit, Meter, Valve & Misc	0.00				26,987.48	20,000.00	6,987.48	134.94%	26,987.48	20,000.00	6,987.48	134.94%
3302 · Buildings & Roads	0.00				26,857.00	27,257.00	-400.00	98.53%	26,857.00	27,257.00	-400.00	98.53%
3302-1 · UF FY 15/16 Ortega Underdrain	0.00				0.00	-7,257.00	7,257.00	0.0%	0.00	-7,257.00	7,257.00	0.0%
3303 · Reservoirs	0.00				45,268.99	87,983.00	-42,714.01	51.45%	45,268.99	87,983.00	-42,714.01	51.45%
3303-1 · UF FY-15/16 Ortega Underdrain	0.00				0.00	-57,983.00	57,983.00	0.0%	0.00	-57,983.00	57,983.00	0.0%
3304 · Engineering, Misc Services	0.00				34,171.57	25,000.00	9,171.57	136.69%	34,171.57	25,000.00	9,171.57	136.69%
Total 3300 · CONTRACT LABOR	0.00				133,285.04	95,000.00	38,285.04	140.3%	133,285.04	95,000.00	38,285.04	140.3%
3400 · MATERIALS & SUPPLIES												
3401 · Conduit, Meter, Valve & Misc	0.00				1,627.94	65,000.00	-63,372.06	2.51%	1,627.94	65,000.00	-63,372.06	2.51%
3402 · Buildings & Roads	0.00				2,827.06	15,000.00	-12,172.94	18.85%	2,827.06	15,000.00	-12,172.94	18.85%
3403 · Reservoirs	0.00				1,712.68	10,000.00	-8,287.32	17.13%	1,712.68	10,000.00	-8,287.32	17.13%
Total 3400 · MATERIALS & SUPPLIES	0.00				6,167.68	90,000.00	-83,832.32	6.85%	6,167.68	90,000.00	-83,832.32	6.85%
3500 · OTHER EXPENSES												
3501 · Utilities	0.00				6,101.67	7,000.00	-898.33	87.17%	6,101.67	7,000.00	-898.33	87.17%
3502 · Uniforms	0.00				1,046.84	5,000.00	-3,953.16	20.94%	1,046.84	5,000.00	-3,953.16	20.94%
3503 · Communications	0.00				14,867.35	18,000.00	-3,132.65	82.6%	14,867.35	18,000.00	-3,132.65	82.6%
3504 · USA & Other Services	0.00				1,357.87	4,000.00	-2,642.13	33.95%	1,357.87	4,000.00	-2,642.13	33.95%
3505 · Miscellaneous	0.00				5,377.30	8,000.00	-2,622.70	67.22%	5,377.30	8,000.00	-2,622.70	67.22%
3506 · Training	0.00				1,350.76	3,000.00	-1,649.24	45.03%	1,350.76	3,000.00	-1,649.24	45.03%
Total 3500 · OTHER EXPENSES	0.00				30,101.79	45,000.00	-14,898.21	66.89%	30,101.79	45,000.00	-14,898.21	66.89%
4100 · LABOR - FISHERIES	537,534.68	623,119.00	-85,584.32	86.27%	0.00				537,534.68	623,119.00	-85,584.32	86.27%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	16,340.88	13,000.00	3,340.88	125.7%	0.00				16,340.88	13,000.00	3,340.88	125.7%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
Budget vs. Actuals July 2016 - Jun 2017

	Fisheries				Operations				TOTAL			
	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget
4280 · Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 · Miscellaneous	4,248.81	2,500.00	1,748.81	169.95%	0.00				4,248.81	2,500.00	1,748.81	169.95%
Total 4200 · VEHICLES & EQUIP - FISHERIES	20,589.69	30,500.00	-9,910.31	67.51%	0.00				20,589.69	30,500.00	-9,910.31	67.51%
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
4222 · Fish Projects Maintenance	9,517.86	25,000.00	-15,482.14	38.07%	0.00				9,517.86	25,000.00	-15,482.14	38.07%
Total 4220 · CONTRACT LABOR - FISHERIES	9,517.86	28,000.00	-18,482.14	33.99%	0.00				9,517.86	28,000.00	-18,482.14	33.99%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	3,040.49	7,000.00	-3,959.51	43.44%	0.00				3,040.49	7,000.00	-3,959.51	43.44%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	3,040.49	7,000.00	-3,959.51	43.44%	0.00				3,040.49	7,000.00	-3,959.51	43.44%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	1,068.43	2,500.00	-1,431.57	42.74%	0.00				1,068.43	2,500.00	-1,431.57	42.74%
Total 4500 · OTHER EXPENSES - FISHERIES	1,068.43	2,500.00	-1,431.57	42.74%	0.00				1,068.43	2,500.00	-1,431.57	42.74%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees												
5001 · Director Mileage	0.00				440.52	2,000.00	-1,559.48	22.03%	440.52	2,000.00	-1,559.48	22.03%
5000 · Director Fees - Other	0.00				6,489.60	11,000.00	-4,510.40	59.0%	6,489.60	11,000.00	-4,510.40	59.0%
Total 5000 · Director Fees	0.00				6,930.12	13,000.00	-6,069.88	53.31%	6,930.12	13,000.00	-6,069.88	53.31%
5100 · Legal	0.00				46,110.53	75,000.00	-28,889.47	61.48%	46,110.53	75,000.00	-28,889.47	61.48%
5101-1 · Audit	0.00				13,891.15	20,000.00	-6,108.85	69.46%	13,891.15	20,000.00	-6,108.85	69.46%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				43,764.50	45,955.00	-2,190.50	95.23%	43,764.50	45,955.00	-2,190.50	95.23%
5310 · Postage/Office Exp	0.00				5,936.68	5,000.00	936.68	118.73%	5,936.68	5,000.00	936.68	118.73%
5311 · Office Equip/Leases	0.00				7,471.90	8,000.00	-528.10	93.4%	7,471.90	8,000.00	-528.10	93.4%
5312 · Misc Admin Expenses	0.00				12,264.44	7,150.00	5,114.44	171.53%	12,264.44	7,150.00	5,114.44	171.53%
5313 · Communications	0.00				6,712.04	8,500.00	-1,787.96	78.97%	6,712.04	8,500.00	-1,787.96	78.97%
5314 · Utilities	0.00				6,727.70	9,737.00	-3,009.30	69.09%	6,727.70	9,737.00	-3,009.30	69.09%
5315 · Membership Dues	0.00				8,113.97	8,000.00	113.97	101.43%	8,113.97	8,000.00	113.97	101.43%
5316 · Admin Fixed Assets	0.00				1,933.98	3,000.00	-1,066.02	64.47%	1,933.98	3,000.00	-1,066.02	64.47%
5317 · Admin Contract Labor AAIL	0.00				18,803.75	22,000.00	-3,196.25	85.47%	18,803.75	22,000.00	-3,196.25	85.47%
5318 · Computer Consultant	0.00				9,617.65	15,000.00	-5,382.35	64.12%	9,617.65	15,000.00	-5,382.35	64.12%
5325 · Emp Training/Subscriptions	0.00				1,161.06	2,000.00	-838.94	58.05%	1,161.06	2,000.00	-838.94	58.05%
5330 · Admin Travel/Conferences	0.00				885.64	2,000.00	-1,114.36	44.28%	885.64	2,000.00	-1,114.36	44.28%
5331 · Public Information	0.00				80.84	1,000.00	-919.16	8.08%	80.84	1,000.00	-919.16	8.08%
5391 · Admin Contract Labor AA I	0.00				10,176.55	19,600.00	-9,423.45	51.92%	10,176.55	19,600.00	-9,423.45	51.92%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				200,582.50	269,942.00	-69,359.50	74.31%	200,582.50	269,942.00	-69,359.50	74.31%
5299 · ADMIN LABOR	0.00				372,920.72	484,222.00	-111,301.28	77.01%	372,920.72	484,222.00	-111,301.28	77.01%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	8,250.10	20,000.00	-11,749.90	41.25%	0.00				8,250.10	20,000.00	-11,749.90	41.25%
5410 · Postage / Office Supplies	3,517.52	2,000.00	1,517.52	175.88%	0.00				3,517.52	2,000.00	1,517.52	175.88%
5411 · Office Equipment / Leases	4,023.27	5,218.00	-1,194.73	77.1%	0.00				4,023.27	5,218.00	-1,194.73	77.1%
5412 · Misc. Admin Expense	4,583.84	4,870.00	-286.16	94.12%	0.00				4,583.84	4,870.00	-286.16	94.12%
5413 · Communications	4,161.04	4,305.00	-143.96	96.66%	0.00				4,161.04	4,305.00	-143.96	96.66%
5414 · Utilities	3,622.58	5,243.00	-1,620.42	69.09%	0.00				3,622.58	5,243.00	-1,620.42	69.09%
5415 · Membership Dues	4,333.65	4,000.00	333.65	108.34%	0.00				4,333.65	4,000.00	333.65	108.34%
5416 · Admin Fixed Assets	1,041.38	3,000.00	-1,958.62	34.71%	0.00				1,041.38	3,000.00	-1,958.62	34.71%
5417 · Admin Contract Labor AAIL	10,125.11	12,000.00	-1,874.89	84.38%	0.00				10,125.11	12,000.00	-1,874.89	84.38%
5418 · Computer Consultant	5,178.72	5,000.00	178.72	103.57%	0.00				5,178.72	5,000.00	178.72	103.57%
5425 · Employee Education/Subsription	1,658.47	2,500.00	-841.53	66.34%	0.00				1,658.47	2,500.00	-841.53	66.34%
5426 · Director Fees	3,494.40	6,000.00	-2,505.60	58.24%	0.00				3,494.40	6,000.00	-2,505.60	58.24%

Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
Budget vs. Actuals July 2016 - Jun 2017

	Fisheries				Operations				TOTAL			
	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Apr 17	Budget	\$ Over Budget	% of Budget
5427 · Director Mileage	237.17	1,000.00	-762.83	23.72%	0.00				237.17	1,000.00	-762.83	23.72%
5430 · Travel	960.17	2,500.00	-1,539.83	38.41%	0.00				960.17	2,500.00	-1,539.83	38.41%
5431 · Public Information	543.53	1,500.00	-956.47	36.24%	0.00				543.53	1,500.00	-956.47	36.24%
5441 · Audt	7,479.85	6,300.00	1,179.85	118.73%	0.00				7,479.85	6,300.00	1,179.85	118.73%
5443 · Liab & Property Ins	23,565.50	24,745.00	-1,179.50	95.23%	0.00				23,565.50	24,745.00	-1,179.50	95.23%
5491 · Admin Contract Labor AA I	5,479.66	10,600.00	-5,120.34	51.7%	0.00				5,479.66	10,600.00	-5,120.34	51.7%
Total 5400 · GENERAL & ADMIN - FISHERIES	92,255.96	120,781.00	-28,525.04	76.38%	0.00				92,255.96	120,781.00	-28,525.04	76.38%
5499 · ADMIN LABOR-FISHERIES	136,969.91	202,112.00	-65,142.09	67.77%	0.00				136,969.91	202,112.00	-65,142.09	67.77%
5510 · Integrated Reg. Water Mgt Plan	0.00				1,343.00	5,000.00	-3,657.00	26.86%	1,343.00	5,000.00	-3,657.00	26.86%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				2,427.97	20,000.00	-17,572.03	12.14%	2,427.97	20,000.00	-17,572.03	12.14%
6090 · COMB Office Building	0.00				284.00	150,000.00	-149,716.00	0.19%	284.00	150,000.00	-149,716.00	0.19%
6096 · SCC Structure Rehabilitation	0.00				0.00	240,000.00	-240,000.00	0.0%	0.00	240,000.00	-240,000.00	0.0%
6097 · GIS and Mapping	0.00				6,647.00	10,000.00	-3,353.00	66.47%	6,647.00	10,000.00	-3,353.00	66.47%
6100 · Watershed Sanitary Survey	0.00				35,481.20	35,481.20	0.00	100.0%	35,481.20	35,481.20	0.00	100.0%
6100-1a · Watershed Sanitary Survey-C/O	0.00				0.00	-35,481.20	35,481.20	0.0%	0.00	-35,481.20	35,481.20	0.0%
6105 · ROW Management Program	0.00				1,440.00	20,000.00	-18,560.00	7.2%	1,440.00	20,000.00	-18,560.00	7.2%
6109 · NP Jet Flow Control Valve	0.00				0.00	50,000.00	-50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6111 · Mission Crk Pipe Temp Repair	0.00				0.00	50,000.00	-50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6118 · Repair Lateral 3 Structure	0.00				18,804.25	100,000.00	-81,195.75	18.8%	18,804.25	100,000.00	-81,195.75	18.8%
6120 · Emergency Pumping Fac Project	0.00				1,714,718.03	2,160,374.00	-445,655.97	79.37%	1,714,718.03	2,160,374.00	-445,655.97	79.37%
6120-1 · EPPF UF FY 2015-16	0.00				0.00	-314,124.00	314,124.00	0.0%	0.00	-314,124.00	314,124.00	0.0%
6130 · NP Slope Stabilization	0.00				8,973.75	82,668.20	-73,694.45	10.86%	8,973.75	82,668.20	-73,694.45	10.86%
6130-1 · NP Slope Stabil C/O Funds FY 16	0.00				0.00	-82,668.20	82,668.20	0.0%	0.00	-82,668.20	82,668.20	0.0%
6131 · Lauro Diversion Valve Install	0.00				70,750.00	75,000.00	-4,250.00	94.33%	70,750.00	75,000.00	-4,250.00	94.33%
Total 6000 · SPECIAL PROJECTS	0.00				1,859,526.20	2,561,250.00	-701,723.80	72.6%	1,859,526.20	2,561,250.00	-701,723.80	72.6%
6200 · FISHERIES ACTIVITIES												
6201 · FMP Implementation	3,024.07	58,800.00	-55,775.93	5.14%	0.00				3,024.07	58,800.00	-55,775.93	5.14%
6202 · GIS and Mapping	3,897.00	10,000.00	-6,103.00	38.97%	0.00				3,897.00	10,000.00	-6,103.00	38.97%
6203 · Grants Technical Support	0.00	0.00	0.00	0.0%	0.00				0.00	0.00	0.00	0.0%
6204 · SYR Hydrology Technical Support	0.00	8,000.00	-8,000.00	0.0%	0.00				0.00	8,000.00	-8,000.00	0.0%
6205 · USGS Stream Gauge Program	91,875.00	77,000.00	14,875.00	119.32%	0.00				91,875.00	77,000.00	14,875.00	119.32%
6206 · Tri County Fish Team Funding	5,000.00	5,000.00	0.00	100.0%	0.00				5,000.00	5,000.00	0.00	100.0%
6207 · Oak Tree Restoration Program	17,702.59	80,000.00	-62,297.41	22.13%	0.00				17,702.59	80,000.00	-62,297.41	22.13%
Total 6200 · FISHERIES ACTIVITIES	121,498.66	238,800.00	-117,301.34	50.88%	0.00				121,498.66	238,800.00	-117,301.34	50.88%
6300 · HABITAT ENHANCEMENT												
6303 · Tributary Projects Support	20,000.03	20,000.00	0.03	100.0%	0.00				20,000.03	20,000.00	0.03	100.0%
6312 · Quiota Creek Crossing 0 (a&b)	642,092.07	840,000.00	-197,907.93	76.44%	0.00				642,092.07	840,000.00	-197,907.93	76.44%
6313 · Quiota Creek Crossing 3	527.00				0.00				527.00	0.00	527.00	100.0%
6314 · Quiota Creek Crossing 4	1,020,929.06	1,120,000.00	-99,070.94	91.15%	0.00				1,020,929.06	1,120,000.00	-99,070.94	91.15%
6315 · Quiota Creek Crossing 8	6,970.00	24,200.00	-17,230.00	28.8%	0.00				6,970.00	24,200.00	-17,230.00	28.8%
6316 · Quiota Creek Crossing 5	12,747.28	30,000.00	-17,252.72	42.49%	0.00				12,747.28	30,000.00	-17,252.72	42.49%
6317 · Salsipuedes Fish Ladder Repair	3,608.62	10,000.00	-6,391.38	36.09%	0.00				3,608.62	10,000.00	-6,391.38	36.09%
Total 6300 · HABITAT ENHANCEMENT	1,706,874.06	2,044,200.00	-337,325.94	83.5%	0.00				1,706,874.06	2,044,200.00	-337,325.94	83.5%
7007 · INTEREST EXPENSE-EPPF	0.00				57,759.41				57,759.41	0.00	57,759.41	100.0%
Total Expense	2,629,349.76	3,297,012.00	-667,662.24	79.75%	3,238,458.83	4,417,789.00	-1,179,330.17	73.31%	5,867,808.59	7,714,801.00	-1,846,992.41	76.06%
Net Income	-451,097.03	0.00	-451,097.03	100.0%	1,504,140.64	0.00	1,504,140.64	100.0%	1,053,043.61	0.00	1,053,043.61	100.0%

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

www.treasurer.ca.gov/pmia-laif/laif.asp
 May 12, 2017

CACHUMA OPERATION AND MAINTENANCE BOARD

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

PMIA Average Monthly Yields

Account Number:

Tran Type Definitions

April 2017 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
4/14/2017	4/13/2017	QRD	1532993	SYSTEM	1,767.01

Account Summary

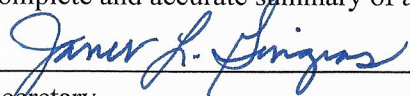
Total Deposit:	1,767.01	Beginning Balance:	815,416.43
Total Withdrawal:	0.00	Ending Balance:	817,183.44

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 April, 2017, 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

PAGE 1

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

RECEIVED

MAY 04 2017

CACHUMA O&M BOARD

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO
STATEMENT DATE 04/28/2017
LAST STATEMENT DATE 03/31/2017

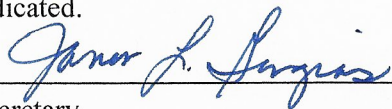
0	STATEMENT PERIOD	
PREVIOUS BALANCE	895,869.52	# OF DAYS-STMT PERIOD 28
0 DEPOSITS/CREDITS	0.00	
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE 895,869.52
ENDING BALANCE	895,869.52	
TOTAL SRV CHG TODAY	0.00	YTD INTEREST 0.00

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 April, 2017, 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

PAGE 1

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

RECEIVED

MAY 04 2017

CACHUMA O&M BOARD

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO
STATEMENT DATE 04/28/2017
LAST STATEMENT DATE 03/31/2017

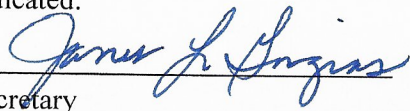
0	STATEMENT PERIOD		
PREVIOUS BALANCE	63,087.61	# OF DAYS-STMT PERIOD	28
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	63,087.61
ENDING BALANCE	63,087.61		
TOTAL SRV CHG TODAY	0.00	YTD INTEREST	0.00

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 April, 2017, 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 April 30, 2017

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
1050 - GENERAL FUND				
04/06/2017	25272	Central Machine & Welding	Repair flange at Ortega Reservoir (Ops Div)	-115.00
04/06/2017	25273	City of Santa-Barbara	Trash/Recycle-Mar 2017	-218.67
04/06/2017	25274	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#36-Phase II (Ops Div)	-148,960.00
04/06/2017	25275	Draganchuk Alarm Systems	Alarm monitoring 4/1/17-6/30/17	-82.50
04/06/2017	25276	Frontier Communications	SCADA	-594.87
04/06/2017	25277	Harrison Hardware	Pump/Fasteners/Straw hat/Stripping paint/Gloves/Buckets Buckets/EZ-off lids (Fish Div)	-136.91
04/06/2017	25278	HDR Engineering, Inc.	Engineering services-EPFP Feb (Ops Div)	-11,127.65
04/06/2017	25279	J&C Services	Ofc cleaning services 3/10, 3/17, 3/24, 3/31/2017	-420.00
04/06/2017	25280	MarBorg Industries	Portable toilets-outlying stations (Casitas Pass only)	-10.78
04/06/2017	25281	Nestle Pure Life Direct	March-5 gal disp. (PPE criteria)	-41.83
04/06/2017	25282	Paychex, Inc.	3/10/17, 3/24/17 Payrolls/Taxes/Deliveries	-341.44
04/06/2017	25283	Peter Lapidus Construction, Inc.	Change Order 3 - Xng 0a (Fish Div)	-60,000.00
04/06/2017	25284	S & S Seeds	Seed Mix (.92 acres) at Quiota Creek Xing 0a (Fish Div)	-1,779.41
04/06/2017	25285	Sansum Clinic-Occupational Medicine	Exam/Follow up (Ops Div)	-602.41
04/06/2017	25286	Southern California Edison	Main office/Outlying stations	-1,204.33
04/06/2017	25287	Staples Credit Plan	Office supplies/Paper/Tabs/Notepads	-193.19
04/06/2017	25288	Stewart's De-Rooting & Plumbing	Septic Tank repair; plumbing (Ops Div)	-284.00
04/06/2017	25289	Storrer Environmental Services	March Services - Bird survey/Field survey - PO#9533 (Fish Div)	-810.00
04/06/2017	25290	Turenchalk Network Services, Inc.	IT Services for March	-1,040.00
04/06/2017	25291	Wright Express Fleet Services	Fleet fuel	-3,356.85
04/06/2017	25292	Association of Ca Water Agencies/JPIA	May Health Benefits coverage	-27,377.62
04/07/2017	25293	Home Depot Credit Services	Step ladder/Wire rope/Caulk gun/Buckets/ Putty knife (Fish Div) Chain oil/Spool trimmer line (Ops Div)	-704.57
04/18/2017	25294	ACWA-Joint Powers Insurance Authority	Workers Comp Program 01/1 - 3/31/17	-9,024.88
04/18/2017	25295	Agri-Turf Supplies, Inc.	Soil (Fish Div)	-180.80
04/18/2017	25296	American Riviera Bank (ARB)	Principal/Interest pymt #9-April	-38,477.96
04/18/2017	25297	Coastal Copy, LP	Mtce agmt TASKalfa 4550ci/3051ci	-593.34
04/18/2017	25298	County of Santa--Barbara	Mulch (Fish Div)	-390.60
04/18/2017	25299	Cox Communications Santa Barbara	Business internet-March	-195.00
04/18/2017	25300	Culligan of Sylmar	Monthly RO system-April	-26.95
04/18/2017	25301	Employee Relations, Inc.	Background/Verification-(Admin Div)	-138.60
04/18/2017	25302	Federal Express	Mailings	-109.48
04/18/2017	25303	Frontier Communications	SCADA	-568.46
04/18/2017	25304	Kenneth A. Knight, Consulting	General Arborist Services-Oak Tree program (Fish Div)	-1,000.00
04/18/2017	25305	Lauren W. Hanson	March mtg fees	-266.80
04/18/2017	25306	Manzanita Nursery	Oak Trees (Fish Div)	-1,649.74
04/18/2017	25307	MarBorg Industries	Portable toilets-outlying stations	-241.40
04/18/2017	25308	Peter Lapidus Construction, Inc.	Pick up and delivery for Backhoe (Fish Div)	-770.00
04/18/2017	25309	Polly Holcombe	March mtg fees	-286.55
04/18/2017	25310	Premiere Global Services	Conf calls-March	-91.53
04/18/2017	25311	Prudential Overall Supply	Mats/Scrapers-March	-150.84
04/18/2017	25312	Sansum Clinic-Occupational Medicine	Pre-employment physical (Admin Div)	-269.00
04/18/2017	25313	SAS Institute, Inc.	Annual license-JMP Discover software 5/17-5/18	-850.00
04/18/2017	25314	Southern California Edison	Main office/Outlying stations	-101.51
04/18/2017	25315	Tim Robinson	Reimb-Salmonid Restoration Conf-travel/meals (Fish Div)	-456.27
04/18/2017	25316	Turenchalk Network Services, Inc.	LogicMonitor/Reflexion Spam Filtering -March	-83.50
04/18/2017	25317	Underground Service Alert of So. Calif.	38 Ticket charges (Ops Div)	-84.00
04/18/2017	25318	Verizon Wireless	Cellular/Modem's/USB	-643.45
04/18/2017	25319	Harwood White	March mtg fees	-392.95

Cachuma Operation & Maintenance Board
Paid Claims
As of April 30, 2017

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
04/18/2017	25320	W. Douglas Morgan	March mtg fees	-405.60
04/18/2017	25321	AT&T	March charges	-475.24
Total 1050 · GENERAL FUND				<u>-317,326.48</u>
				<u>-317,326.48</u>

APPROVED FOR PAYMENT

Director

Director

Director

FINANCE COMMITTEE

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: Resolution No. 630 – Director Compensation

SUMMARY:

The Cachuma Operation and Maintenance Board's (COMB) has a written policy which specifically provides for Directors' fees and mileage allowance for attendance at COMB Board meetings and COMB Committee meetings. The current compensation for meeting attendance by Directors is set at \$128 per meeting for each Director or his/her alternate. The current mileage allowance for a Director or his/her alternate is set at the adjusted Internal Revenue Service allowable travel expense reimbursement mileage rate as it may be set from time-to-time.

At the April 2017 Board meeting, a request was made to review the allowance for Director compensation and present to the Board for evaluation and discussion at the next Board meeting. To assist with the discussion, staff reached out to various Member Agencies and inquired as to their respective policy. The following information was received.

Agency	Amount	Increment
Goleta	\$220	Per Day
Montecito	\$140	Per Day
Carpinteria	\$100	Per Day
Average	\$153	Per Day

In order to be consistent and comparable with Member Agencies, staff is recommending the following proposed changes to Directors' compensation and mileage allowance:

1. Increase the Director compensation from \$128 to \$150 per meeting for each Director or his/her alternate.
2. The current mileage allowance which is set at the adjusted Internal Revenue Service allowable travel expense reimbursement rate remains unchanged.

FISCAL IMPACTS:

COMB's current budget provides \$20,000 for annual expenses related to Directors compensation and mileage allowance. The proposed change to Directors' compensation will not affect the budgeted amount for this line item.

LEGAL CONCURRENCE:

A resolution has been reviewed by legal counsel in preparation for submittal to the Board of Directors.

COMMITTEE STATUS:

The Administrative Committee reviewed the proposed changes to Director compensation and, through a resolution, forwards to the Board for approval.

RECOMMENDATION:

The Board adopt Resolution No. 630 to approve the proposed change to Directors' compensation effective July 1, 2017 from \$128 to \$150 per meeting with current mileage allowance to remain the same.

LIST OF EXHIBITS:

Resolution No. 630

RESOLUTION NO. 630

**A RESOLUTION OF THE CACHUMA OPERATION AND
MAINTENANCE BOARD ADJUSTING DIRECTOR'S COMPENSATION
AND MILEAGE ALLOWANCE**

WHEREAS, the governing body of the Cachuma Operation and Maintenance Board ("COMB") has a written policy that specifically provides for Directors' fees and mileage allowance for attendance at COMB Board meetings and COMB Committee meetings; and

WHEREAS, the current compensation allowance for a Director or his/her alternate is set at ONE HUNDRED AND TWENTY EIGHT DOLLARS (\$128.00) per meeting; and

WHEREAS, the current mileage allowance for a Director, or his/her alternate, is calculated using the distance from the District office to COMB and set at the adjusted Internal Revenue Service allowable travel expense reimbursement mileage rate as it may be set from time-to-time; and

WHEREAS, it is the desire of the governing body of COMB to increase the allowance for Directors' fees, and those of his/her alternate, to ONE HUNDRED AND FIFTY DOLLARS (\$150.00) per meeting effective July 1, 2017; and

WHEREAS, this Resolution repeals any prior action of this governing body of COMB providing for compensation and mileage allowance; and

NOW, THEREFORE, BE IT RESOLVED by the governing body of the Cachuma Operation and Maintenance Board that the compensation allowance for a Director, or his/her alternate, is set at ONE HUNDRED AND FIFTY DOLLARS (\$150.00) per meeting effective July 1, 2017.

BE IT FURTHER RESOLVED that the mileage allowance for a Director, or his/her alternate, which is currently set at the adjusted Internal Revenue Service allowable travel expense reimbursement mileage rate as it may be set from time-to-time, remain unchanged.

PASSED, APPROVED AND ADOPTED this 22nd day of May 2017, by the following vote:

AYES:

NAYES:

ABSENT/ABSTAIN:

APPROVED:

President of the Board

ATTEST:

Secretary of the Board

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: Resolution No. 631 - Proposed Changes to CalPERS Employer Paid Member Contributions – Classic Employees

SUMMARY:

COMB currently participates in the California Public Employees' Retirement System (CalPERS). The Board of Directors of COMB has had a written policy since July 20, 1981 which specifically provides for the normal CalPERS member contribution to be paid by the Employer.

Under Resolution No. 316 which was adopted on May 22, 2000, the Board approved that the normal Employer Paid Member Contribution (EPMC) rate to be set at 100%. However, in recent years, several public agencies have created Tiers within their pension plans, with new employees offered a lesser pension formula and/or required to pay the employee portion of the PERS contribution.

Staff has compared the CalPERS EPMC that is provided by its Member Units and Central Coast Water Authority (CCWA). It was discovered that COMB and only one other agency currently pays 100% of the EPMC under the CalPERS Miscellaneous Plan for its Classic Employees (employees hired before January 1, 2013).

In order to be consistent and comparable with COMB member units, staff is recommending the following proposed changes to the CalPERS Employer Paid Member Contributions:

1. All employees hired before July 1, 2017 (and who are "Classic" employees as defined by CalPERS) will begin contributing towards their employee member contribution under a phased-in method over the next five years (1.4% annual incremental increase each July 1st) not to exceed 7%, as follows:

Employer Paid Member Contribution Rate

Effective Date (*)	Employer Contribution	Member Contribution
July, 2017	5.6%	1.4%
July, 2018	4.2%	2.8%
July, 2019	2.8%	4.2%
July, 2020	1.4%	5.6%
July, 2021	0.0%	7.0%

(*) Effective 1st pay period in July

2. Create a Tier 2 Miscellaneous Plan for any employee hired after July 1, 2017. All employees hired after this date (and who are "Classic" employees as defined by CalPERS) shall directly pay the full 7% employee member contribution toward their retirement plan.

FISCAL IMPACTS:

The proposed amendment makes changes to the employee retirement contributions by increasing the amount Classic Employees contribute to their retirement plan over a 5-year period, which will provide long-term savings to COMB.

LEGAL CONCURRENCE:

Legal Counsel reviewed Resolution No. 631 prior to submission to the Board of Directors.

COMMITTEE STATUS:

The Administrative Committee forwards, through a resolution, the proposed changes to the CalPERS Employer Paid Member Contribution for COMB Classic Employees and the establishment of a Tier 2 Miscellaneous Plan to the Board with a recommendation to approve.

RECOMMENDATION:

The Board adopt Resolution No. 631 approving the proposed changes to the CalPERS Employer Paid Member Contribution for COMB Classic Employees and establishing a Tier 2 Miscellaneous Plan as presented.

LIST OF EXHIBITS:

1. CalPERS Benefit Survey
2. Resolution No. 631

	PERS Classic	Employee Contribution	Tier 1	Employee Contribution
Goleta WD	2.7%@55□	Employees pay 8% employee contribution.	Hired in 2012 2% @55	Employee pays employee member contribution
Santa Barbara, City of	2.7%@55□	Employee pays 9.526% Employee pays part of Employer portion when rate exceeds 20.164%	N/A	N/A
Carpinteria Valley WD	2.0% @55	Employees pay 7% employee contribution. Offsetting Cost of Living Adjustments pay increases were given to implement change to employee paying share	2.0% @55	Employee pays employee member contribution
Montecito WD	2% @55	Employee currently pays 5.71% of member contribution (FY16/17). Increases in employee contribution attributed to any amount over ER Contribution Rate Cap of 20.814%, NTE 7%.	Hired after 07/1/12	Employee pays 100% employee member contribution
Santa Ynez River WCD, ID#1	2% @ 55 ID#1 pays employee portion (*)			
CCWA	2% @55 CCWA pays Employee Portion	Beginning 7/1/18, increases in employer normal cost split 50/50 between Emp and CCWA, up to 7%	Hired after 7/1/17	Employee 100% pays employee member contribution

(*) As reported in CCWA benefit survey, dated September 8, 2016. Pending re-confirmation by SYRWCD, ID No. 1

RESOLUTION NO. 631

A RESOLUTION OF THE CACHUMA OPERATION AND MAINTENANCE BOARD FOR EMPLOYER PAID CALIFORNIA PUBLIC EMPLOYEES RETIREMENT SYSTEM (CalPERS) MEMBER CONTRIBUTION FOR EMPLOYEES

WHEREAS, the governing body of the Cachuma Operation and Maintenance Board has the authority to implement Government Code Section 20691; and

WHEREAS, the governing body of the Cachuma Operation and Maintenance Board (“COMB” or “Board”) has a written policy that specifically provides for the normal member contributions to be paid by the employer; and

WHEREAS, one of the steps in the procedures to implement Section 20691 is the adoption, by the governing body of COMB, a Resolution to commence said Employer Paid Member Contribution (“EPMC”); and

WHEREAS, under COMB Resolution No. 316, which was adopted on May 22, 2000, the Board approved the normal cost EPMC rate to be set at 100%; and

WHEREAS, the governing body of COMB has identified the following conditions for the purpose of its election to pay EPMC:

1. For employees hired prior to July 1, 2017, and who are considered “Classic” employees as defined by CalPERS Miscellaneous Plan:

This benefit shall consist of paying:

- a. 5.6% (Percent) of the normal member contributions as EPMC effective with the first pay period in in the fiscal year 2017, pay date July 14, 2017.
- b. 4.2% (Percent) of the normal member contributions as EPMC effective with the first pay period in in the fiscal year 2018, pay date July 13, 2018.
- c. 2.8% (Percent) of the normal member contributions as EPMC effective with the first pay period in in the fiscal year 2019, pay date July 12, 2019.
- d. 1.4% (Percent) of the normal member contributions as EPMC effective with the first pay period in in the fiscal year 2020, pay date July 10, 2020.
- e. 0.0% (Percent) of the normal member contributions as EPMC effective with the first pay period in in the fiscal year 2021, pay date July 9, 2021.

2. For employees hired on or after July 1, 2017, and who are considered “Classic” employees as defined by CalPERS Miscellaneous Plan:

- a. This benefit shall consist of paying 0% of the normal member contributions as EPMC.
- b. The effective date of this Resolution shall be the first pay period in the fiscal year 2017, pay date July 14, 2017.

WHEREAS, rescinding Resolution No. 316 is required to allow the implementation of Section 20691, as desired by the governing body of COMB.

NOW, THEREFORE, BE IT RESOLVED by the governing body of the Cachuma Operation and Maintenance Board elects to rescind Resolution No. 316, and approve, authorize and report the value of EPMC as set forth in detail above.

PASSED, APPROVED AND ADOPTED this 22nd day of May 2017, by the following vote:

AYES:

NAYES:

ABSENT/ABSTAIN:

APPROVED:

President of the Board

ATTEST:

Secretary of the Board

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: **COMB FY 2017-18 Proposed Draft Operating Budget**

SUMMARY:

Prepared for Board review and discussion is the COMB FY 2017-18 Proposed Draft Operating Budget, Budget Summary document, draft Budget Allocation worksheet, draft 5-year Infrastructure Improvement and Habitat Improvement Plans, and supplementary information on the CalPERS pension unfunded liability status. The draft budget and accompanying materials have been presented to the Member Agency General Managers and the Administrative Committee for review and comment. The proposed budget reflects projected operating costs for the Operations Division, the Fisheries Division as well as the General and Administrative Expenses for Fiscal Year 2017-18. These projected expenditures have been refined through development of the annual work plan and applicable updates to the Infrastructure and Habitat Improvement Plans.

Development of the budget was based on zero-based budgeting methodology. Unlike traditional incremental budgeting, this methodology employs a detailed examination of expenditures wherein only the necessary budget amount for each line item is presented for discussion. This approach addresses the most fundamental and prioritized service needs and represents the minimum level of funding needed for operations.

The proposed draft budget reflects the current salaries and benefits package for all employees including the General Manager's position. The budget includes a 1.82% COLA for all employees per the historical annual calculation which is based on the March or April Consumer Price Index (CPI) data each year. The calculation is obtained by averaging the prior thirteen months indexes for all urban consumers and comparing that average to the previous year averaged data. The U.S. City and the Los Angeles-Riverside data is averaged together to obtain the percentage COLA for the period. April data indicates a 1.82% increase for the COLA calculation during this time period.

Operations Division

Operations and Maintenance Expenses

The Operations Division O & M expenses show a 3.21% decrease overall. The labor line item decreased by 2.86% and is due to restructuring of field crew salaries/benefits from a resignation of a senior staff (classic) employee as compared to the prior fiscal year. The materials and supplies line items were adjusted downward to reflect anticipated actual expenditures for the upcoming budget year.

General and Administrative Expenses

The General and Administrative portion of the Operations Division shows a projected increase in health insurance premiums (10%) and related retiree health insurance premiums due to an additional retirement occurring last December. The cost of liability and property insurance has increased slightly this fiscal year due to an increase in rates. Overall, the Operations Division General and Administrative (G & A) Expenses increased 6.88% percent as compared to the previous year budget. Under Special G & A expenses, it is anticipated that the administrative costs for IRWMP Proposition 1 grants will remain the same as the prior fiscal year.

Infrastructure Improvement Projects

The Infrastructure Improvement Projects (IIP) section in the Operations Division portion of the budget reflects an increase as compared to the prior year primarily due to projects previously delayed due to the ongoing drought. Careful consideration was employed in this section of the budget with only high priority infrastructure improvement projects proposed. Included for fiscal year 2017-18 are the Air Vacuum Air Release Valve (AVAR) and Blow-Off Valve replacement projects, the Lateral 3 structure repair, Sycamore Canyon Slope Stabilization project, Phase I of the Meter Replacement Project, and the North Portal Intake Tower Seismic Assessment. Per Board policy, all improvement projects will require approval through the applicable Committee and Board review process prior to implementation. Overall, a 42.6% increase is shown for the IIP section for fiscal year 2017-18.

Funds for the preservation of the primary equipment related to re-establishing the Emergency Pumping Facilities Project, if needed in the future, will be utilized from carryover funds from fiscal year 2016-17.

Fisheries Division

Operation and Maintenance Expenses

The Fisheries Division Labor Account shows an increase compared to the prior fiscal year primarily due to an under-budgeted amount from the previous year, adjustment to salaries due to step increases and longevity, PERS pension liability adjustment, and increased health insurance costs. The vehicle maintenance line item was increased slightly to reflect anticipated expenses. Overall, the operation and maintenance expenses show a 9.01% increase as compared to the prior fiscal year budget.

General and Administrative Expenses

General and administrative expenses reflect costs for support related to the fisheries division administrative function. Health benefits and workers compensation insurance line item increased slightly as compared to the past fiscal year due to an increase in rates. The postage and office supplies, miscellaneous expenses and membership dues line items were increased slightly to accommodate projected actual expenses. Overall, the Fisheries Division General and Administrative Expenses increased 1.82%.

Program Support Services and Habitat Improvement Plan Projects

Program support services within the Fisheries Division incorporate all monitoring, mapping and reporting tasks required in the implementation of the Cachuma Project Biological Opinion (BO) and Lower Santa Ynez River (LSYR) Fisheries Management Plan (FMP). The Grants technical support was budgeted the same in the prior fiscal year but re-allocated to another line item. Hence, there is no actual increase for this fiscal year. The USGS Stream Gauge Program has been increased to accommodate an extra gauge on the river plus increases in costs. The County Betterment Fund offset for this program of work has been increased from \$75k to \$90k to support the extra costs.

The Habitat Improvement Plan projects have decreased considerably as compared to the prior fiscal year due to the implementation of only one passage project instead of two. The Oak Tree Restoration

Program costs are projected to be reduced due to a reduction in consultant fees and materials and supplies. Overall, the Fisheries Division Budget decreased considerably by over 40% as compared to the previous fiscal year. Per Board policy, all improvement projects will require approval through the applicable Committee and Board review process prior to implementation.

In summary, the COMB gross proposed FY 2017-18 Draft Operating Budget is \$5,318,330. Overall, as indicated on page 4 of the budget, COMB will manage over \$6 million in revenues during this fiscal year. These revenues include the Renewal/Trust Fund, the Santa Barbara County \$100,000 annual betterment fund contribution, \$893,000 in grants affiliated with the Fisheries Division Projects, Cachuma Project Water allocations, Bradbury and Lauro Dam SOD Act repayments, and the Water Rights fee. With projected offsetting revenues of \$1,603,648, the net FY 2017-18 COMB Draft Budget totals \$3,714,682.

COMMITTEE STATUS:

The Administrative Committee has reviewed the COMB FY 2017-18 Proposed Draft Operating Budget and forwards to the Board a recommendation to review, discuss and approve, if warranted.

RECOMMENDATION:

The Board review the COMB FY 2017-18 Proposed Draft Operating Budget and affiliated materials and adopt the budget as presented or provide direction to staff.

LIST OF EXHIBITS:

- 1) FY 2017-18 Draft Operating Budget Recap
- 2) FY 2017-18 Draft COMB Operating Budget
- 3) FY 2017-18 Draft COMB Allocation Worksheet
- 4) FY 2017-18 Draft COMB Budget Summary
- 5) FY 2018-22 Draft Infrastructure Improvement Plan
- 6) FY 2018-22 Draft Habitat Improvement Plan

**CACHUMA OPERATION AND MAINTENANCE BOARD
DRAFT OPERATING BUDGET RECAP
FY 2017-2018**

	<u>FY 16/17</u>	<u>FY 17/18</u>	<u>Change</u> ⁽¹⁾	
COMB Gross Budget	\$ 7,714,799	\$ 5,318,330	\$ (2,396,469)	-31%
Offset Revenue				
Warren Act Trust Fund	\$ 238,306	\$ 620,361		
Renewal Fund	52,872	-		
Santa Barbara County Betterment Fund	90,000	90,000		
CDFW Grant Funding - QC Crossing 0	671,635			
CDFW Grant Funding - QC Crossing	938,295			
CDFW Grant Funding - QC Crossing 5		893,287		
	<u>\$ 1,991,108</u>	<u>\$ 1,603,648</u>		
COMB Total Net Budget ⁽²⁾	\$ 5,723,691	\$ 3,714,682	(2,009,009)	-35%

(1) Explanation of Change in Costs

EPF Pumping Facility	\$ 1,846,250	\$ -	\$ (1,846,250)	-100%
Habitat Improvement Projects	2,124,200	1,150,000	(974,200)	-46%
Infrastructure Improvement Projects	715,000	1,020,000	305,000	43%
Program Support Services	158,800	193,000	34,200	22%
Salaries and Benefits	2,186,026	2,266,322	80,296	4%
Operations and Maintenance	353,000	343,000	(10,000)	-3%
General & Administrative Expenses	331,523	346,009	14,486	4%
Sub Total	<u>\$ 7,714,799</u>	<u>\$ 5,318,331</u>	<u>\$ (2,396,469)</u>	-31%

(2) **COMB Net Budget** Excludes COMB Managed Revenues: USBR O&M Costs, Bradbury SOD Act Repayment, Lauro SOD Act Repayment, Water Rights Fee



Cachuma Operation & Maintenance Board

Santa Barbara, California

Draft Operating Budget

July 1, 2017 – June 30, 2018



CACHUMA OPERATION AND MAINTENANCE BOARD

3301 Laurel Canyon Road

Santa Barbara, California 93105-2017

Telephone (805)687-4011 FAX (805)569-5825

www.cachuma-board.org



Mission

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

Cachuma Operation & Maintenance Board

Board of Directors

W. Douglas Morgan, Montecito Water District

Harwood "Bendy" White, City of Santa Barbara

Lauren Hanson, Goleta Water District

Polly Holcombe, Carpinteria Valley Water District

Kevin Walsh, Santa Ynez River Water Conservation District ID No. 1

General Manager

Janet L. Gingras

Staff Contributors

Edward Lyons, Administrative Manager / CFO

Dave Stewart, Operations Division Manager

Tim Robinson, Fisheries Division Manager

Adriane Passani, Administrative III / Bookkeeper

Amy Smith, Project Coordinator

Cachuma Operation & Maintenance Board

Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	FY 2016-17 Adopted Budget	FY 2016-17 Estimated Actuals	FY 2017-18 Proposed Draft Budget	Variance ^ \$ Higher / (Lower)	Percentage Change
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OPERATIONS DIVISION

OPERATION & MAINTENANCE EXPENSES

LABOR						
3100	LABOR - Operations Field Crew	\$ 510,888	\$ 429,786	\$ 494,852	\$ (16,036)	
3155	CALPERS	77,834	60,808	76,597	(1,237)	
3150	HEALTH INSURANCE	166,975	125,577	155,076	(11,899)	
3150	WORKERS COMPENSATION INSURANCE	25,456	16,792	24,727	(729)	
3160	FICA	31,222	34,209	37,856	6,634	
TOTAL		\$ 812,375	\$ 667,172	\$ 789,108	\$ (23,267)	-2.86%
VEHICLES & EQUIPMENT						
3201	VEHICLE/EQUIP MTCE	\$ 30,000	\$ 41,903	\$ 30,000	\$ -	
3202	FIXED CAPITAL	15,000	4,065	15,000	-	
3203	EQUIPMENT RENTAL	5,000	1,330	5,000	-	
3204	MISC	5,000	4,053	5,000	-	
TOTAL		\$ 55,000	\$ 51,351	\$ 55,000	\$ -	0.00%
CONTRACT LABOR						
3301	CONDUIT, METER, VALVE	\$ 20,000	\$ 24,981	\$ 20,000	\$ -	
3302	BUILDINGS & ROADS	20,000	26,557	20,000	-	
3303	RESERVOIRS	30,000	45,269	30,000	-	
3304	ENGINEERING, MISC SVCS	25,000	34,172	25,000	-	
TOTAL		\$ 95,000	\$ 130,978	\$ 95,000	\$ -	0.00%
MATERIALS & SUPPLIES						
3401	CONDUIT, METER, VALVE & MISC	\$ 65,000	\$ 64,000	\$ 65,000	\$ -	
3402	BUILDINGS & ROADS	15,000	3,434	8,000	(7,000)	
3403	RESERVOIRS	10,000	2,203	5,000	(5,000)	
TOTAL		\$ 90,000	\$ 69,637	\$ 78,000	\$ (12,000)	-13.33%
OTHER EXPENSES						
3501	UTILITIES	\$ 7,000	\$ 7,454	\$ 7,000	\$ -	
3502	UNIFORMS	5,000	4,500	5,000	-	
3503	COMMUNICATIONS	18,000	17,851	18,000	-	
3504	USA & OTHER SERVICES	4,000	2,588	4,000	-	
3505	MISC	8,000	7,500	8,000	-	
3506	TRAINING	3,000	1,801	3,000	-	
TOTAL		\$ 45,000	\$ 41,695	\$ 45,000	\$ -	0.00%
TOTAL O & M EXPENSE		\$ 1,097,375	\$ 960,833	\$ 1,062,108	\$ (35,267)	-3.21%

Cachuma Operation & Maintenance Board

Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	FY 2016-17 Adopted Budget	FY 2016-17 Estimated Actuals	FY 2017-18 Proposed Draft Budget	Variance ^ \$ Higher / (Lower)	Percentage Change
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OPERATIONS DIVISION

GENERAL AND ADMINSTRATIVE EXPENSES

5000	DIRECTORS FEES	\$ 13,000	\$ 12,500	\$ 13,000	\$ -	
5100	AUDIT	20,000	13,891	21,625	1,625	
5101	LEGAL	75,000	73,000	75,000	-	
5150	UNEMPLOYMENT INSURANCE	5,000	0	5,000	-	
5200	LIABILITY & PROPERTY INSURANCE	45,955	43,765	50,551	4,596	
5201	HEALTH insurance, W/C, Retirees medical	174,747	196,824	222,951	48,203	
5250	PERS	50,193	41,707	46,951	(3,242)	
5339	FICA/MEDICARE	21,382	14,601	21,210	(172)	
5300-5307	ADMINISTRATIVE SALARIES	279,500	255,372	277,258	(2,242)	
5310	POSTAGE / OFFICE SUPPLIES	5,000	7,655	5,000	-	
5311	OFFICE EQUIPMENT / LEASES	8,000	8,887	9,200	1,200	
5312	MISC. ADMIN. EXP.	7,150	15,669	8,600	1,450	
5313	COMMUNICATIONS	8,500	8,069	8,500	-	
5314	UTILITIES	9,737	8,941	9,737	-	
5315	MEMBERSHIP DUES	8,000	10,680	8,500	500	
5316	ADMIN. FIXED ASSETS	3,000	2,579	3,000	-	
5318	COMPUTER CONSULTANT	15,000	11,850	15,000	-	
5325	EMPLOYEE EDUCATION/TRAINING	2,000	1,548	2,000	-	
5330	ADMIN TRAV & CONFERENCES	2,000	1,165	2,000	-	
5331	PUBLIC INFO	1,000	108	1,000	-	
TOTAL GENERAL & ADMINISTRATIVE		\$ 754,164	\$ 728,810	\$ 806,082	\$ 51,918	6.88%

SPECIAL G & A EXPENSES

5510	Integrated Regional Water Mgmt Plan	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	
TOTAL SPECIAL G & A EXPENSES		\$ 5,000	\$ 5,000	\$ 5,000	\$ -	0.00%

INFRASTRUCTURE IMPROVEMENT PROJECTS **

6062	SCADA	\$ 20,000	\$ 5,000	\$ 20,000	\$ -	
6090	COMB Bldg/Grounds Repair	150,000	-	20,000	(130,000)	
6097	GIS and Mapping	10,000	8,647	10,000	-	
6096	SCC Structure Rehabilitation (AVAR / BO Valves)	240,000	137,000	225,000	(15,000)	
6105	ROW Identification Program	20,000	15,000	20,000	-	
6109	North Portal Jet Flow Control Valve	50,000	-	0	(50,000)	
6111	Mission Creek Pipeline	50,000	-	-	(50,000)	
6118	Repair Lateral 3 Structure	100,000	18,804	100,000	-	
6122	Rehabilitate San Antonio Creek Blow-off	-	-	35,000	35,000	
6130	North Portal Slope Stabilization	-	8,974	30,000	30,000	
6131	Lauro Diversion Valve Installation	75,000	70,750	-	(75,000)	
6132	Sycamore Canyon Slope Stabilization	-	-	300,000	300,000	
6133	Meter Replacement Project	-	-	100,000	100,000	
6134	North Portal IT/Control Bldg Seismic Assessment	-	-	100,000	100,000	
6135	SCC San Jose Creek Pipe Stabilization Evaluation **	-	-	60,000	60,000	
TOTALS		\$ 715,000	\$ 264,175	\$ 1,020,000	\$ 305,000	42.66%

SPECIAL PROJECTS **

6120	Emergency Pumping Facilities Project	1,846,250	1,701,688	-	(1,846,250)	
TOTALS		\$ 1,846,250	\$ 1,701,688	\$ -	\$ (1,846,250)	-100.00%
TOTAL IIP and SPECIAL PROJECTS		\$ 2,561,250	\$ 1,965,863	\$ 1,020,000	\$ (1,541,250)	-60.18%
TOTAL OPERATIONS DIVISION BUDGET		\$ 4,417,789	\$ 3,660,506	\$ 2,893,190	\$ (1,524,598)	-34.51%

Cachuma Operation & Maintenance Board

Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	FY 2016-17 Adopted Budget	FY 2016-17 Estimated Actuals	FY 2017-18 Proposed Draft Budget	Variance ^ \$ Higher / (Lower)	Percentage Change
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FISHERIES DIVISION

OPERATION & MAINTENANCE EXPENSES

LABOR						
4100	LABOR - Biology Field Crew	\$ 333,228	\$ 370,880	\$ 363,620	\$ 30,392	
4114	LABOR - Seasonal Field Crew	68,000	38,566	68,000	-	
4151	CALPERS	66,607	86,777	81,035	14,429	
4150	HEALTH INSURANCE	104,528	104,055	116,119	11,591	
4150	WORKERS COMPENSATION	20,061	17,976	21,581	1,520	
4152	FICA	30,694	33,596	33,019	2,325	
TOTAL		\$ 623,118	\$ 651,849	\$ 683,374	\$ 60,256	9.67%
VEHICLES & EQUIPMENT						
4270	VEHICLE/EQUIP MTCE	\$ 13,000	\$ 19,898	\$ 15,000	\$ 2,000	
4280	FIXED CAPITAL	15,000	0	15,000	-	
4290	MISCELLANEOUS	2,500	5,665	2,500	-	
TOTAL		\$ 30,500	\$ 25,563	\$ 32,500	\$ 2,000	6.56%
CONTRACT LABOR						
4220	METERS & VALVES	\$ 3,000	-	\$ 3,000	-	
4222	PROJECTS MAINTENANCE	25,000	12,690	25,000	-	
TOTAL		\$ 28,000	\$ 12,690	\$ 28,000	\$ -	0.00%
MATERIALS & SUPPLIES						
4390	MISCELLANEOUS	\$ 7,000	\$ 3,978	\$ 7,000	-	
TOTAL		\$ 7,000	\$ 3,978	\$ 7,000	\$ -	0.00%
OTHER EXPENSES						
4502	UNIFORMS	\$ 2,500	\$ 1,425	\$ 2,500	-	
TOTAL		\$ 2,500	\$ 1,425	\$ 2,500	\$ -	0.00%
TOTAL O & M EXPENSE		\$ 691,118	\$ 695,505	\$ 753,374	\$ 62,256	9.01%

FISHERIES DIVISION

GENERAL AND ADMINISTRATIVE EXPENSES

5426	DIRECTORS FEES	\$ 7,000	\$ 4,345	\$ 7,000	-	
5407	LEGAL	20,000	10,102	20,000	-	
5441	AUDIT	6,300	7,480	7,175	875	
5443	LIABILITY & PROPERTY INSURANCE	24,745	23,566	24,745	-	
5401	HEALTH BENEFITS & W/C	35,672	20,962	39,475	3,804	
5402	PERS	27,027	20,606	25,281	(1,746)	
5403	FICA/MEDICARE	11,513	7,771	11,421	(92)	
5404-09	ADMINISTRATIVE SALARIES	150,500	137,508	149,293	(1,207)	
5410	POSTAGE / OFFICE SUPPLIES	2,000	4,447	4,000	2,000	
5411	OFFICE EQUIPMENT / LEASES	5,218	4,785	5,218	-	
5412	MISC. ADMIN. EXP.	4,870	5,476	5,610	740	
5413	COMMUNICATIONS	4,305	5,001	4,305	-	
5414	UTILITIES	5,243	4,814	5,243	-	
5415	MEMBERSHIP DUES	4,000	5,704	5,500	1,500	
5416	ADMIN. FIXED ASSETS	3,000	1,389	3,000	-	
5418	COMPUTER CONSULTANT	5,000	6,381	5,000	-	
5425	EMPLOYEE EDUCATION/SUBSCRIPTIONS	2,500	1,545	2,500	-	
5430	ADMIN TRAV & CONFERENCES	2,500	663	2,500	-	
5431	PUBLIC INFO	1,500	725	1,500	-	
TOTAL GENERAL & ADMINISTRATIVE		\$ 322,892	\$ 273,267	\$ 328,766	\$ 5,873	1.82%

Cachuma Operation & Maintenance Board

Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	FY 2016-17 Adopted Budget	FY 2016-17 Estimated Actuals	FY 2017-18 Proposed Draft Budget	Variance ^ \$ Higher / (Lower)	Percentage Change
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FISHERIES DIVISION

PROGRAM SUPPORT SERVICES

6201	BO/FMP Implementation	\$ 58,800	\$ 2,912	\$ 60,000	\$ 1,200	
6202	GIS and Mapping	10,000	3,047	10,000	-	
6203	Grants Technical Support	-	-	10,000	10,000	
6204	SYR Hydrology Technical Support	8,000	-	8,000	-	
6205	USGS Stream Gauge Program	77,000	65,463	100,000	23,000	
6206	Tri County Fish Team Funding	5,000	5,000	5,000	-	
TOTALS		\$ 158,800	\$ 76,421	\$ 193,000	\$ 34,200	21.54%

HABITAT IMPROVEMENT PLAN PROJECTS **

6207	Oak Tree Restoration Program	\$ 80,000	\$ 30,000	\$ 40,000	\$ (40,000)	
6303	Tributary Project Improvements	20,000	19,997	20,000	-	
6312	Quiota Creek Crossing 0a	840,000	701,149	-	(840,000)	
6314	Quiota Creek Crossing 4	1,120,000	1,020,913	-	(1,120,000)	
6315	Quiota Creek Crossing 8	24,200	24,000	60,000	35,800	
6316	Quiota Creek Crossing 5	30,000	30,000	960,000	930,000	
6317	Salsipuedes Fish Ladder Repair	10,000	3,609	10,000	-	
6318	Quiota Creek Crossing 9	-	-	30,000	30,000	
6319	Mission Creek at Hwy 192 **	-	-	30,000	30,000	
TOTALS		\$ 2,124,200	\$ 1,829,668	\$ 1,150,000	\$ (974,200)	-45.86%

TOTAL HIP and Program Support Services

		\$ 2,283,000	\$ 1,906,089	\$ 1,343,000	\$ (940,000)	-41.17%
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TOTAL FISHERIES DIVISION BUDGET

		\$ 3,297,011	\$ 2,874,860	\$ 2,425,140	\$ (871,871)	-26.44%
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Total COMB Gross Budget

		\$ 7,714,799	\$ 6,535,366	\$ 5,318,330	\$ (2,396,469)	-31.06%
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Projected Offsetting Revenues:

Renewal Fund *	\$ (52,872)		\$ -
Warren Act Trust Fund	(238,306)		(620,361)
Santa Barbara County Contribution	(90,000)		(90,000)
CDFW Grant Funding - QC Crossing 5	-		(893,287)
CDFW Grant Funding - QC Crossing 0 (a&b)	(671,635)		-
CDFW Grant Funding - QC Crossing 4	(938,295)		-
Total Offsetting Revenues	\$ (1,991,108)		\$ (1,603,648)

TOTAL COMB NET BUDGET

		\$ 5,723,691		\$ 3,714,682	\$ (2,009,009)	-35.10%
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Other COMB Managed Revenues:

	Actual		Estimated
USBR O & M costs (water rates)	\$ 980,000		\$ 1,200,000
Bradbury SOD Act Repayment	260,870		260,870
Lauro SOD Act Repayment	42,000		42,000
Water Rights Fee	44,000		44,000
Totals	\$ 1,326,870		\$ 1,546,870

Notes:

General and Administrative labor costs are allocated at 65% Operations Division and 35% Fisheries Division
 General & Administrative Expenses are allocated at 65% Operations Division and 35% Fisheries Division with the exception of
 Legal, Admin Fixed Assets, Education, Travel, Public Info
 Labor costs contain 1% COLA increase per annual calculation
 * Special purpose fund generally restricted to Habitat Enhancement Projects
 ^ Compares FY 2017-18 Proposed Draft Budget to FY 2016-17 Adopted Budget

Special Note:

** Board policy requires all projects to be approved thru Committee and by the Board prior to commencement

Cachuma Operation & Maintenance Board
Operation and Maintenance Expenses Consolidated

Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

<i>Account Name</i>

<u>OPERATION & MAINTENANCE EXPENSES</u>	FY 2016-2017			FY 2017-2018		
	Operations	Fisheries	Total	Operations	Fisheries	Total
LABOR						
LABOR - Field Crews	\$ 503,586	\$ 401,228	\$ 904,814	\$ 494,852	\$ 431,620	\$ 926,472
CALPERS	77,834	66,607	144,441	76,597	81,035	157,633
HEALTH INSURANCE	167,281	104,528	271,809	155,076	116,119	271,195
WORKERS COMPENSATION INSURANCE	25,150	20,061	45,211	24,727	21,581	46,308
FICA	38,524	30,694	69,218	37,856	33,019	70,875
TOTAL	\$ 812,376	\$ 623,118	\$ 1,435,494	\$ 789,108	\$ 683,374	\$ 1,472,482
VEHICLES & EQUIPMENT						
VEHICLE/EQUIP MTCE	\$ 30,000	\$ 13,000	\$ 43,000	\$30,000	\$ 15,000	\$ 45,000
FIXED CAPITAL	15,000	15,000	30,000	15,000	15,000	30,000
EQUIPMENT RENTAL	5,000	0	5,000	5,000	0	5,000
MISC	5,000	2,500	7,500	5,000	2,500	7,500
TOTAL	\$ 55,000	\$ 30,500	\$ 85,500	\$ 55,000	\$ 32,500	\$ 87,500
CONTRACT LABOR						
CONDUIT, METER, VALVE	\$ 20,000	\$ 3,000	\$ 23,000	\$20,000	\$ 3,000	\$ 23,000
BUILDINGS & ROADS	20,000	0	20,000	20,000	0	20,000
RESERVOIRS	30,000	0	30,000	30,000	0	30,000
ENGINEERING, FISH PROJ MTCE, MISC SVCS	25,000	25,000	50,000	25,000	25,000	50,000
TOTAL	\$ 95,000	\$ 28,000	\$ 123,000	\$ 95,000	\$ 28,000	\$ 123,000
MATERIALS & SUPPLIES						
CONDUIT, METER, VALVE & MISC	\$ 65,000	\$ 7,000	\$ 72,000	\$65,000	\$ 7,000	\$ 72,000
BUILDINGS & ROADS	15,000	0	15,000	8,000	0	8,000
RESERVOIRS	10,000	0	10,000	5,000	0	5,000
TOTAL	\$ 90,000	\$ 7,000	\$ 97,000	\$ 78,000	\$ 7,000	\$ 85,000
OTHER EXPENSES						
UTILITIES	\$ 7,000	\$ -	\$ 7,000	\$7,000	0	7,000
UNIFORMS	5,000	2,500	7,500	5,000	2,500	7,500
COMMUNICATIONS	18,000	0	18,000	18,000	0	18,000
USA & OTHER SERVICES	4,000	0	4,000	4,000	0	4,000
MISC	8,000	0	8,000	8,000	0	8,000
TRAINING	3,000	0	3,000	3,000	0	3,000
TOTAL	\$ 45,000	\$ 2,500	\$ 47,500	\$ 45,000	\$ 2,500	\$ 47,500
TOTAL O & M EXPENSE	\$ 1,097,376	\$ 691,118	\$ 1,788,494	\$ 1,062,108	\$ 753,374	\$ 1,815,482

Cachuma Operation & Maintenance Board
General and Administrative Expenses Consolidated
Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Name

GENERAL AND ADMINISTRATIVE EXPENSES

	FY 2016-2017			FY 2017-2018		
	Operations	Fisheries	Total	Operations	Fisheries	Total
DIRECTORS FEES	\$ 13,000	\$ 7,000	\$ 20,000	\$13,000	\$ 7,000	\$20,000
AUDIT	20,000	6,300	26,300	21,625	7,175	28,800
LEGAL	75,000	20,000	95,000	75,000	20,000	95,000
UNEMPLOYMENT TAX	5,000	0	5,000	5,000	0	5,000
GENERAL LIABILITY INSURANCE	45,955	24,745	70,700	50,551	24,745	75,296
HEALTH INSURANCE	63,424	34,151	97,576	70,511	37,967	108,478
WORKERS COMPENSATION INSURANCE	2,823	1,520	4,343	2,800	1,508	4,308
RETIREES HEALTH INSURANCE	108,500	0	108,500	149,640	0	149,640
CAL-PERS	50,193	27,027	77,219	46,951	25,281	72,232
FICA / MEDICARE	21,382	11,513	32,895	21,210	11,421	32,631
ADMINISTRATIVE SALARIES	279,500	150,500	430,000	277,258	149,293	426,551
POSTAGE/OFFICE SUPPLIES	5,000	2,000	7,000	5,000	4,000	9,000
OFFICE EQUIP/LEASES	8,000	5,218	13,218	9,200	5,218	14,418
MISC ADMIN EXP	7,150	4,870	12,020	8,600	5,610	14,210
COMMUNICATIONS	8,500	4,305	12,805	8,500	4,305	12,805
UTILITIES	9,737	5,243	14,980	9,737	5,243	14,980
MEMBERSHIP DUES	8,000	4,000	12,000	8,500	5,500	14,000
ADMIN FIXED ASSETS	3,000	3,000	6,000	3,000	3,000	6,000
COMPUTER CONSULTANT	15,000	5,000	20,000	15,000	5,000	20,000
EMPLOYEE EDUCATION/SUBSCRIPTIONS	2,000	2,500	4,500	2,000	2,500	4,500
TRAVEL & CONF.	2,000	2,500	4,500	2,000	2,500	4,500
PUBLIC INFO	1,000	1,500	2,500	1,000	1,500	2,500
TOTAL	\$754,163	\$322,892	\$1,077,056	\$806,082	\$328,766	\$1,134,848

Notes:

Administrative salaries/burden are allocated as 35% Fisheries Division and 65% Operations

Cachuma Operation & Maintenance Board
Operations & Maintenance Expenses - Operations Division
Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Description
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OPERATIONS and MAINTENANCE EXPENSES - Operations Division

LABOR

3100	LABOR OPS	\$	494,852	Division Manager, Operations Field Crew salaries
3155	CALPERS		76,597	CalPERS pension
3150	HEALTH INSURANCE		155,076	ACWA/JPIA Health Plans, Delta Dental, VSP vision plan
3150	WORKERS COMPENSATION		24,727	ACWA/JPIA workers compensation program
3160	FICA		37,856	Agency payroll costs
	TOTAL		\$ 789,108	

VEHICLES & EQUIPMENT

3201	VEHICLE/EQUIP MTCE	\$	30,000	Ops & mtce costs of vehicles & equip/Cat generators/fuel costs
3202	FIXED CAPITAL		15,000	Misc replacement equipment, portable pumps, generators
3203	EQUIPMENT RENTAL		5,000	Rental equipment
3204	MISC		5,000	Small tools, supplies for tools & equipment
	TOTAL		\$ 55,000	

CONTRACT LABOR

3301	CONDUIT, METER, VALVE	\$	20,000	Heavy equip operators, meter calibration, valve mtce
3302	BUILDINGS & ROADS		20,000	Elevator mtce; equip repair; heavy equip; landscape
3303	RESERVOIRS		30,000	Reservoir cleaning/weed abatement/silt vacuuming - CCC contract
3304	ENGINEERING, MISC SVCS		25,000	Consultants, engineering, design
	TOTAL		\$ 95,000	

MATERIALS & SUPPLIES

3401	CONDUIT, METER, VALVE & MISC	\$	65,000	Meters, air valves, fill materials, charts, locks, signs, gate valves, air ven
3402	BUILDINGS & ROADS		8,000	Paint, windows, lights, gravel, spray, fencing, etc
3403	RESERVOIRS		5,000	Gravel, base, weed spray, fencing, cleaning, etc.
	TOTAL		\$ 78,000	

OTHER EXPENSES

3501	UTILITIES	\$	7,000	Electric; gas
3502	UNIFORMS		5,000	Uniforms; boots; raingear
3503	COMMUNICATIONS		18,000	Phones at facilities/Cell Phones/Ops & Mtce/SCADA lines
3504	USA & OTHER SERVICES		4,000	Underground Service Alerts
3505	MISC		\$8,000	Miscellaneous operational expenses (see page 6)
3506	TRAINING		3,000	Certifications / classes
	TOTAL		\$ 45,000	

TOTAL O & M EXPENSE **\$ 1,062,108**

Cachuma Operation & Maintenance Board

OPERATIONS EXPENSES - OTHER

Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Vendor	Totals	Detail
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OTHER EXPENSES DETAIL

3501	Utilities		\$7,000	
	PGE			4,000
	Southern California Edison			3,000
3502	Uniforms		\$5,000	
	ATZ Monogramming			500
	The Wharf			4,500
3503	Communications		\$18,000	
	ATT			1,000
	Verizon - Mn office, Carp, Ortega, NP			2,500
	Verizon - SCADA			8,000
	Verizon Cell			5,500
	Echo			1,000
3504	USA & Other Services		\$4,000	
	USA			1,500
	Safety-Kleen			1,500
	County of Santa Barbara			500
	Draganchuk Alarms			500
3505	Miscellaneous		\$8,000	
	Misc. non-fixed assets			1,000
	OD computer/office			500
	City of SB Refuse			3,000
	Marborg Industries			3,500
3506	Education / Training Operations		\$3,000	
			\$45,000	

Cachuma Operation & Maintenance Board
General and Administrative Expenses - Operations Division
Draft Budget
Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Description
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GENERAL AND ADMINISTRATIVE EXPENSES

5000	DIRECTORS FEES	\$ 13,000	Directors Fees
5100	AUDIT	21,625	Audit
5101	LEGAL	75,000	Legal
5150	UNEMPLOYMENT TAX	5,000	Unemployment tax
5200	GENERAL LIABILITY INSURANCE	50,551	General liability premiums
5201	HEALTH, WC, DC, Retirees Medical	222,951	Health, WC, DC, Retirees medical
5250	CAL-PERS	46,951	PERS employer portion increased slightly
5339	FICA / MEDICARE	21,210	Payroll driven
5300-5307	ADMINISTRATIVE SALARIES	277,258	Admin Salaries
5310	POSTAGE/OFFICE SUPPLIES	5,000	Ofc supplies/postage
5311	OFFICE EQUIP/LEASES	9,200	Copiers lease / maintenance / postage machine
5312	MISC ADMIN EXP	8,600	Janitor / paychex / misc Admin
5313	COMMUNICATIONS	8,500	COX / Verizon / ATT
5314	UTILITIES	9,737	SCE / SC Gas
5315	MEMBERSHIP DUES	8,500	ACWA / AWWA / CVWP
5316	ADMIN FIXED ASSETS	3,000	Computers / Office Furniture
5318	COMPUTER CONSULTANT	15,000	Technical Expertise
5325	EMPLOYEE EDUCATION/SUBSCRIPTIONS	2,000	Admin Expense
5330	TRAVEL & CONFERENCES	2,000	COMB travel
5331	PUBLIC INFO	1,000	Newspaper ads/public announcements
TOTAL		\$ 806,082	

Notes:

Administrative salaries/burden are allocated as 35% Fisheries Division and 65% Operations based on proportionate salary ratio.

Cachuma Operation & Maintenance Board
ADMINISTRATIVE EXPENSES - OPERATIONS DIVISION
Draft Budget
Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Totals	Detail
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GENERAL AND ADMINISTRATIVE DETAIL

5000	Directors Fees	\$13,000	
5100	Audit	\$21,625	
5101	Legal	\$75,000	
5150	Unemployment Insurance	\$5,000	
5200	Liability & Property Insurance	\$50,551	
	Property		3,218
	Crime Coverage		858
	Auto & General Liability		46,475
5310	Postage and Office Supplies	\$5,000	
5311	Office Equipment & Leases	\$9,200	
	Coastal Copy		3,000
	Culligan Water		200
	GE Capital		4,500
	Pitney Bowes		1,500
5312	Misc Admin. Expense	\$8,600	
	Office Cleaning		2,500
	Paychex		3,600
	Misc items		2,500
5313	Communications	\$8,500	
	ATT		3,500
	Premier Global		300
	Frontier Communications		2,200
	COX Cable Online		2,500
5314	Utilities	\$9,737	
	Southern California Edison		9,337
	The Gas Company		400
5315	Membership Dues	\$8,500	
	ACWA		7,500
	AWWA		500
	Other Dues		500
5316	Admin. Fixed Assets	\$3,000	
			3,000
5318	Computer Consultant	\$15,000	
			15,000
5325	Employee Education/Subscriptions	\$2,000	
	Education		1,500
	Subscriptions		500
5330	Admin. Travel / Conferences	\$2,000	
5331	Public Information	\$1,000	
	Website Maintenance		1,000
	TOTAL	\$237,713	

Cachuma Operation & Maintenance Board
INFRASTRUCTURE IMPROVEMENT PROJECTS - OPERATIONS DIVISION

Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name			Description
6062	SCADA Contractor	\$20,000	20,000	SCADA system maintenance/support
6090	COMB Building/Grounds Repair Contractor	\$20,000	20,000	Routine repair work
6096	SCC Structure Rehabilitation Contractor - Phase II Contractor - Phase II Contractor - Phase III (FY 2016-17 C/O Funds)	\$225,000	100,000 125,000 0	AVAR Riser Pipe Replacement Blow-off Riser Pipe Replacement AVAR Valve Replacement (6)
6097	GIS and Mapping Vendor	\$10,000	10,000	Software, licensing, support/additional mapping
6105	ROW Identification Program Intern staff	\$20,000	20,000	Mapping of easements into GIS
6118	Repair Lateral 3 - Upper Reach Consultant Engineer Contractor	\$100,000	0 100,000	Inspection (FY 2016-17 C/O funds) Rehabilitation
6122	Rehabilitate San Antonio Creek Blowoff Consultant Engineer	\$35,000	35,000	Designs
6130	North Portal Access Road Repair Contractor	\$30,000	30,000	Asphalt realigned road
6132	Sycamore Canyon Slope Stabilization Consultant Engineer Contractor	\$300,000	35,000 265,000	Designs Construction
6133	Meter Replacement Project Consultant Contractor	\$100,000	10,000 90,000	Evaluation Installation
6134	North Portal Intake Tower/Control Bldg Seismic Assessment Consultant Engineer	\$100,000	100,000	Condition assessment/analysis
6135	SCC San Jose Creek Stabilization ** Consultant Engineer	\$60,000	60,000	Condition assessment/design
TOTAL Infrastructure Improvement Projects		\$1,020,000		

**SCC San Jose Creek Stabilization - To be assessed when approved by the Board

Cachuma Operation & Maintenance Board
Operations & Maintenance Expenses - Fisheries Division
Draft Budget
Fiscal Year 2017 - 2018

7/11/2017

Account Number	Account Name	Description
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OPERATIONS and MAINTENANCE EXPENSES - Fisheries Activites

LABOR

4100	LABOR	\$	683,374	Biology Field Crew salary/benefits
	TOTAL	\$	683,374	

VEHICLES & EQUIPMENT

4270	VEHICLES MAINT	\$	15,000	Fuel, tires, maintenance, etc.
4280	FIXED CAPITAL		15,000	Thermographs, probes, etc.
4290	MISC		2,500	Miscellaneous
	TOTAL	\$	32,500	

CONTRACT LABOR

4221	METERS & VALVES	\$	3,000	Calibration of flow meters and sonde meters
4222	FISH PROJECTS MT. WORK		25,000	Maintenance of fish passage projects, CCC
	TOTAL	\$	28,000	

MATERIALS & SUPPLIES

4390	MISC	\$	7,000	Misc supplies/additional monitoring equipment
	TOTAL	\$	7,000	

OTHER EXPENSES

4502	UNIFORMS	\$	2,500	Biology crew gear
	TOTAL	\$	2,500	

TOTAL O & M EXPENSE

\$ 753,374

Cachuma Operation & Maintenance Board
General and Administrative Expenses - Fisheries Division
Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Description
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GENERAL AND ADMINISTRATIVE EXPENSES

5400	DIRECTORS FEES	\$7,000	Directors Fees
5441	AUDIT	7,175	Annual Audit
5407	LEGAL	20,000	Legal
5443	GENERAL LIABILITY INSURANCE	24,745	General liability premiums
5401	HEALTH & Workers Comp.	39,475	Health and WC premiums
5402	CAL-PERS	25,281	PERS employer portion increased slightly
5403	FICA / MEDICARE	11,421	Payroll driven
5404-09	ADMINISTRATIVE SALARIES	149,293	Administrative Salaries
5410	POSTAGE/OFFICE SUPPLIES	4,000	Ofc supplies/postage
5411	OFFICE EQUIP/LEASES	5,218	Copiers lease / maintenance / Pitney Bowes
5412	MISC ADMIN EXP	5,610	J&C janitorial / Paychex / Website mtce & updates/misc
5413	COMMUNICATIONS	4,305	COX / Verizon / ATT
5414	UTILITIES	5,243	SCE / SC Gas
5415	MEMBERSHIP DUES	5,500	Fisheries Associations
5416	ADMIN FIXED ASSETS	3,000	Computers / Office Furniture
5418	COMPUTER CONSULTANT	5,000	Technical Expertise
5425	EMPLOYEE EDUCATION/SUBSCRIPTIONS	2,500	Admin Expense
5430	TRAVEL & CONF.	2,500	Travel Expenses
5431	PUBLIC INFO	1,500	Newspaper ads/public announcements
TOTAL		\$ 328,766	

Notes:

Administrative salaries/burden are allocated as 35% Fisheries Division and 65% Operations based on proportionate salary ratio.

Cachuma Operation & Maintenance Board
ADMINISTRATIVE EXPENSES - Fisheries Division
Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Totals	Detail
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GENERAL AND ADMINISTRATIVE DETAIL

5400	Directors Fees	\$7,000	
5407	Legal	\$20,000	
5441	Audit	\$7,175	
5443	Liability & Property Insurance	\$24,745	
	Property		1,575
	Crime Coverage		420
	General Liability		22,750
5410	Postage and Office Supplies	\$4,000	
5411	Office Equipment & Leases	\$5,218	
	Coastal Copy		900
	Culligan Water		300
	GE Capital		3,118
	Pitney Bowes		900
5412	Misc Admin. Expense	\$5,610	
	J & C Services		1,500
	Paychex		2,610
	Misc.		1,500
5413	Communications	\$4,305	
	ATT		1,500
	Frontier		1,000
	COX Cable Online		1,805
5414	Utilities	\$5,243	
	Southern California Edison		3,943
	The Gas Company		1,300
5415	Membership Dues	\$5,500	
	American Fisheries Society		500
	ACWA		4,000
	Salmonid Restoration Federation		1,000
5416	Admin. Fixed Assets	\$3,000	
5418	Computer Consultant	\$5,000	
5425	Employee Education/Subscriptions	\$2,500	
	Education		2,000
	Subscriptions		500
5430	Admin. Travel / Conferences	\$2,500	
5431	Public Information	\$1,500	
	Public Information		500
	Website Development		1,000
	TOTAL	\$103,296	

Cachuma Operation & Maintenance Board
Support Services - Fisheries Division
Draft Budget

Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Totals	Description
6201	Biological Opinion/FMP Implementation	\$60,000	38,000 BO Compliance Tasks and Support
			2,000 AMC and CC participation and tech support
			20,000 Fisheries monitoring program support
6202	GIS and mapping	\$10,000	10,000 GIS Tech support, materials, equip, software
6203	Grants and Workshop Technical Support	\$10,000	10,000 Technical support for grants research and management
6204	SYR Hydrology Technical Support	\$8,000	8,000 Hydrologic Modeling support
6205	USGS Stream Gauge Program*	\$100,000	100,000 USGS Stream Gauge Program
6206	Tri County Fish Team Funding	\$5,000	5,000 Tri County Fish Team participation

TOTAL Special Projects **\$193,000**

* Reimbursed through County of Santa Barbara \$100,000 Betterment Fund

Cachuma Operation & Maintenance Board
Habitat Improvements - Fisheries Division
Draft Budget
Fiscal Year 2017 - 2018

7/1/2017

Account Number	Account Name	Totals	Description
6207	Oak Tree Restoration Program Ken Knight Consultant Vendor	\$40,000	10,000 Oak Tree Consultant oversight 30,000 Materials and supplies
6303	Tributary Projects Improvements HDR FishPro	\$20,000	20,000 Engineering
6316	Quiota Creek Crossing 5 HDR FishPro Consultants Contractor	\$960,000	30,000 Design support, bid administration 50,000 Permitting, Review, Inspections 880,000 Construction
6315	Quiota Creek Crossing 8 Consultants	\$60,000	60,000 Design support, bid administration
6318	Quiota Creek Crossing 9 HDR FishPro	\$30,000	30,000 Design support
6317	Salsipuedes Creek Jalama Road Fish Ladder HDR FishPro	\$10,000	10,000 Modifications to fish ladder
6319	Mission Creek at Highway 192 ** HDR FishPro	\$30,000	30,000 Fish passage design support
TOTAL Habitat Enhancements		<u>\$1,150,000</u>	
Grant Funding:			
	CDFW Grant Funding - Crossing No. 5	\$ (893,287)	\$ (893,287)
NET Habitat Enhancement Cost		<u>\$ 256,713</u>	

** Mission Creek at Highway 192 - to be assessed when approved by the Board

CACHUMA OPERATION & MAINTENANCE BOARD

Budget Allocation FY 2017-18 (DRAFT)

OPERATIONS DIVISION		7/1/2017	
ID#1 Allocated Costs (SC Operations Division)		FY 2016-17	FY 2017-18
COMB Buildings / Grounds Repair	\$20,000 10.31%	\$ 15,465	\$ 2,062
TOTAL		\$ 15,465	\$ 2,062
Directors Fees (All M/U equal share)			
MEMBER UNIT			
Goleta Water District	20.00%	\$ 4,000	\$ 4,000
City of Santa Barbara	20.00%	\$ 4,000	\$ 4,000
Carpinteria Valley Water District	20.00%	\$ 4,000	\$ 4,000
Montecito Water District	20.00%	\$ 4,000	\$ 4,000
Santa Ynez River Wtr Conservation District, ID#1	20.00%	\$ 4,000	\$ 4,000
TOTAL	100.00%	\$ 20,000	\$ 20,000
SCMU Allocated Costs (SC Ops Div)			
MEMBER UNIT			
Goleta Water District	40.42%	\$ 1,771,335	\$ 1,160,510
City of Santa Barbara	35.88%	\$ 1,572,378	\$ 1,030,161
Carpinteria Valley Water District	12.20%	\$ 534,644	\$ 350,278
Montecito Water District	11.50%	\$ 503,967	\$ 330,180
TOTAL	100.00%	\$ 4,382,324	\$ 2,871,128
TOTAL Operations Division Budget			
MEMBER UNIT			
Goleta Water District	40.25%	\$ 1,775,335	\$ 1,164,510
City of Santa Barbara	35.74%	\$ 1,576,378	\$ 1,034,161
Carpinteria Valley Water District	12.25%	\$ 538,644	\$ 354,278
Montecito Water District	11.55%	\$ 507,967	\$ 334,180
Santa Ynez River Wtr Conservation District, ID#1	0.21%	\$ 19,465	\$ 6,062
TOTAL	100.00%	\$ 4,417,789	\$ 2,893,190
FISHERIES DIVISION			
Stetson, Hanson Consultants Only		FY 2016-17	FY 2017-18
MEMBER UNIT			
Goleta Water District	40.42%	\$ 10,508	\$ 10,508
City of Santa Barbara	35.89%	\$ 9,331	\$ 9,331
Carpinteria Valley Water District	12.20%	\$ 3,171	\$ 3,171
Montecito Water District	11.50%	\$ 2,989	\$ 2,989
Total allocated costs for Stetson, Hanson only	100.00%	\$ 26,000	\$ 26,000
O & M, G & A, Special Projects			
MEMBER UNIT			
Goleta Water District	36.25%	\$ 1,185,741	\$ 869,688
City of Santa Barbara	32.19%	\$ 1,052,938	\$ 772,283
Carpinteria Valley Water District	10.94%	\$ 357,849	\$ 262,466
Montecito Water District	10.31%	\$ 337,241	\$ 247,351
Santa Ynez River Wtr Conservation District, ID#1	10.31%	\$ 337,241	\$ 247,351
Total allocated costs for remaining FD budget	100.00%	\$ 3,271,011	\$ 2,399,140
MEMBER UNIT			
Goleta Water District	36.29%	\$ 1,196,250	\$ 880,197
City of Santa Barbara	32.23%	\$ 1,062,270	\$ 781,615
Carpinteria Valley Water District	10.95%	\$ 361,020	\$ 265,637
Montecito Water District	10.32%	\$ 340,230	\$ 250,340
Santa Ynez River Wtr Conservation District, ID#1	10.20%	\$ 337,241	\$ 247,351
TOTAL Fisheries Division Budget	100.00%	\$ 3,297,011	\$ 2,425,140
MEMBER UNIT TOTALS			
Goleta Water District	38.45%	\$ 2,971,585	\$ 2,044,707
City of Santa Barbara	34.14%	\$ 2,638,648	\$ 1,815,775
Carpinteria Valley Water District	11.66%	\$ 899,663	\$ 619,915
Montecito Water District	10.99%	\$ 848,197	\$ 584,520
Santa Ynez River Wtr Conservation District, ID#1	4.76%	\$ 356,706	\$ 253,413
TOTAL GROSS COMB BUDGET	100.00%	\$ 7,714,800	\$ 5,318,330

CACHUMA OPERATION & MAINTENANCE BOARD

Budget Allocation FY 2017-18 (DRAFT)

		7/1/2017	
Warren Act Trust Fund Offset		FY 2016-17	FY 2017-18
Goleta Water District	36.25%	(\$105,552)	\$ (224,881)
City of Santa Barbara	32.19%	(\$93,730)	\$ (199,694)
Carpinteria Valley Water District	10.94%	(\$31,855)	\$ (67,867)
Montecito Water District	10.31%	(\$30,020)	\$ (63,959)
Santa Ynez River Wtr Conservation District, ID#1	10.31%	(\$17,897)	\$ (63,959)
TOTAL	100.00%	(\$291,178)	\$ (620,361)
County Betterment Fund Offset			
Goleta Water District	36.25%	\$ (32,625)	\$ (32,625)
City of Santa Barbara	32.19%	\$ (28,971)	\$ (28,971)
Carpinteria Valley Water District	10.94%	\$ (9,846)	\$ (9,846)
Montecito Water District	10.31%	\$ (9,279)	\$ (9,279)
Santa Ynez River Wtr Conservation District, ID#1	10.31%	\$ (9,279)	\$ (9,279)
TOTAL	100.00%	(\$90,000)	(\$90,000)
CDFW Grant Funding Offset			
Goleta Water District	36.25%	\$ (583,600)	\$ (323,817)
City of Santa Barbara	32.19%	\$ (518,236)	\$ (287,549)
Carpinteria Valley Water District	10.94%	\$ (176,126)	\$ (97,726)
Montecito Water District	10.31%	\$ (165,984)	\$ (92,098)
Santa Ynez River Wtr Conservation District, ID#1	10.31%	\$ (165,984)	\$ (92,098)
TOTAL	100.00%	(\$1,609,930)	(\$893,287)
NET TOTAL COMB BUDGET			
Goleta Water District	40.37%	\$ 2,249,809	\$ 1,463,384
City of Santa Barbara	35.85%	\$ 1,997,710	\$ 1,299,561
Carpinteria Valley Water District	12.26%	\$ 681,836	\$ 444,476
Montecito Water District	11.56%	\$ 642,914	\$ 419,184
Santa Ynez River Wtr Conservation District, ID#1	2.43%	\$ 151,424	\$ 88,077
TOTAL		\$ 5,723,693	\$ 3,714,682
Operations IIP Project (SCC San Jose Creek Pipe Stabilization Evaluation) - Special Assessment Once Approved			
MEMBER UNIT			
Goleta Water District	40.42%	\$ -	\$ (24,252)
City of Santa Barbara	35.88%	\$ -	\$ (21,528)
Carpinteria Valley Water District	12.20%	\$ -	\$ (7,320)
Montecito Water District	11.50%	\$ -	\$ (6,900)
TOTAL	100.00%	\$ -	\$ (60,000)
Fisheries HIP Project (Mission Creek at Hwy 192) - Special Assessment Once Approved			
Goleta Water District	36.25%	\$ -	\$ (10,875)
City of Santa Barbara	32.19%	\$ -	\$ (9,657)
Carpinteria Valley Water District	10.94%	\$ -	\$ (3,282)
Montecito Water District	10.31%	\$ -	\$ (3,093)
Santa Ynez River Wtr Conservation District, ID#1	10.31%	\$ -	\$ (3,093)
TOTAL	100.00%	\$ -	(\$30,000)
ADJUSTED NET TOTAL COMB BUDGET			
Goleta Water District	39.40%	\$ 2,249,809	\$ 1,428,257
City of Santa Barbara	34.99%	\$ 1,997,710	\$ 1,268,376
Carpinteria Valley Water District	11.97%	\$ 681,836	\$ 433,874
Montecito Water District	11.29%	\$ 642,914	\$ 409,191
Santa Ynez River Wtr Conservation District, ID#1	2.34%	\$ 151,424	\$ 84,984
TOTAL		\$ 5,723,693	\$ 3,624,682
Quarterly Assessments (Before 2017-18 Estimated Annual Debt Service - EPFP Loan)			
Goleta Water District		\$ 562,452	\$ 357,064
City of Santa Barbara		\$ 499,428	\$ 317,094
Carpinteria Valley Water District		\$ 170,459	\$ 108,468
Montecito Water District		\$ 160,728	\$ 102,298
Santa Ynez River Wtr Conservation District, ID#1		\$ 37,856	\$ 21,246
TOTAL		\$ 1,430,923	\$ 906,171

CACHUMA OPERATION & MAINTENANCE BOARD

Budget Allocation FY 2017-18 (DRAFT)

		7/1/2017	
2017-18 Estimated Annual Debt Service - EPFP Loan			
Goleta Water District		\$ 360,154	\$ 360,154
City of Santa Barbara		\$ -	\$ -
Carpinteria Valley Water District		\$ -	\$ -
Montecito Water District		\$ 101,582	\$ 101,582
Santa Ynez River Wtr Conservation District, ID#1		\$ -	\$ -
TOTAL		\$ 461,736	\$ 461,736
Annual Budget plus estimated debt service			
Goleta Water District		\$ 2,609,963	\$ 1,788,411
City of Santa Barbara		\$ 1,997,710	\$ 1,268,376
Carpinteria Valley Water District		\$ 681,836	\$ 433,874
Montecito Water District		\$ 744,496	\$ 510,773
Santa Ynez River Wtr Conservation District, ID#1		\$ 151,424	\$ 84,984
TOTAL		\$ 6,185,429	\$ 4,086,418
Quarterly Assessments w/Debt Service			
Goleta Water District		\$ 652,491	\$ 447,103
City of Santa Barbara		\$ 499,428	\$ 317,094
Carpinteria Valley Water District		\$ 170,459	\$ 108,468
Montecito Water District		\$ 186,124	\$ 127,693
Santa Ynez River Wtr Conservation District, ID#1		\$ 37,856	\$ 21,246
TOTAL		\$ 1,546,357	\$ 1,021,604

Notes:

- 1) General & Administrative Expenses are allocated at 65% Operations Division and 35% Fisheries Division with the exception of Legal Fees, Membership dues, Admin Fixed Assets, Education, Travel, Public Info
- 2) Directors fees are allocated equally among all member units using .20 as multiplier
- 3) COMB Buildings/Grounds Repair is allocated at Cachuma Entitlement Percentage
- 4) South Coast Operations Division is allocated at SCMU Entitlement Percentages
- 5) Fisheries Division is allocated at Cachuma Entitlement Percentages with the exception of Stetson and Hanson Consultants

CACHUMA OPERATION AND MAINTENANCE BOARD

FISCAL YEAR 2017-18

BUDGET SUMMARY

The Cachuma Operation and Maintenance Board was formed as a joint powers agency organized by the Cachuma Member Units pursuant to the provisions of Articles 1, 2, and 4 of Chapter 5, Division 7, Title 1 of the California Government Code (section 6500 et seq.) and the "1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project - Cachuma Operation and Maintenance Board." The 1996 Amended and Restated Agreement, Contract No. 14-06-200-5222R "Contract for the Transfer of Operation and Maintenance of the Cachuma Transferred Project Works" by and between the United States and COMB, Contract No. 175r-1802R "Contract Between the United States and Santa Barbara County Water Agency Providing for Water Service from the Project," and the "Cachuma Project Member Units Contracts" between the County Water Agency and each of COMB's five Member Units, provide for the rights to, the facilities of, and the operation, maintenance and use of the United States, Department of the Interior, Bureau of Reclamation project known as the Cachuma Project, including storage, treatment, transport and appurtenant facilities, and all necessary tangible and intangible property and rights. COMB is also provided the authority for the financing of "costs" for the capture, development, treatment, storage, transport and delivery of water.

In September of 2010, the Cachuma Operation and Maintenance Board approved a budget adjustment effective January 2011 to transfer from CCRB the implementation of the Santa Ynez Fisheries Program as required by the 2000 Biological Opinion. The Lower Santa Ynez River Fish Management Plan (FMP) and the Cachuma Project Biological Opinion (BO) were issued in 2000. A long-term Fish Management Program was developed which provides protection for steelhead/rainbow trout downstream of Bradbury Dam through a combination of water releases from Bradbury Dam through the Hilton Creek watering system, and the removal or modification of numerous fish passage barriers to steelhead on tributaries to the mainstem Santa Ynez River. By implementing these actions, the Cachuma Member Agencies have created significant additional habitat for steelhead within the Santa Ynez River watershed.

OPERATIONS AND MAINTENANCE DIVISION – O & M EXPENSES:

Program Description

To maintain and support all associated costs of operating and maintaining the Tecolote Tunnel, South Coast Conduit and all appurtenant facilities and four regulating reservoirs: Glen Anne, Lauro, Carpinteria, and Ortega reservoirs.

LABOR – 3100 - 3165

Operation and Maintenance Labor is actual labor costs of the total salaries and benefits for a six member field crew and an Operations Division Manager position. The benefits include medical, dental and vision insurance coverage, a \$20,000 life insurance policy per employee, an employee assistance program (EAP), and the Cal-PERS retirement contribution (2% @ 55% Formula - All employees hired after January 2013 who are not classified as "classic" members will contribute 6.25% of the CalPERS retirement premium from their bi-weekly paycheck). The health, vision, dental and life insurance programs are selected through ACWA/JPIA. The

Workers' Compensation premiums are based on payroll calculated at various percentages depending on the category of each employee (clerical, outside sales and field operations). FICA is a mandatory employer expense. A multiple policy discount has been applied as additional savings to the employee benefits program. The overall labor line item includes a 1.82% COLA per the annual calculation and reflects a decrease as compared to the prior year.

Totals by Account:	3100 Labor Operations	\$ 494,852
	3155 CalPERS	76,597
	3150 Health Insurance	155,076
	3150 Workers Compensation	24,727
	3160 FICA	<u>37,856</u>
	Total	\$ 789,856

VEHICLES & EQUIPMENT - 3201 thru 3204

The Vehicles and Equipment account is made up of four sub-accounts which include funds for the purchase of vehicles, fuel, parts, inspections and maintenance of vehicles, equipment, and rental of equipment for both replacement and upgrading of the conveyance system. In particular, account 3201 includes supplies necessary to operate vehicles and equipment such as fuel, oil, tires, parts, inspections and labor, etc. This account reflects amounts determined by historical expense data and projected operational needs. Account 3202 contains funds for the purchase of replacement vehicles, equipment or large tools as may be necessary in the fiscal year. Account 3203 includes all rental equipment charges necessary for operation. Account 3204 is utilized for the purchase of small tools, equipment and supplies. These accounts are increased or decreased annually to reflect changes in the price, work plan and number of items appropriately designated to be purchased from these accounts.

Totals by Account:	3201 Vehicle/Equip Maint.	\$ 30,000
	3202 Fixed Capital	15,000
	3203 Equip Rental	5,000
	3204 Misc.	<u>5,000</u>
	Total	\$ 55,000

CONTRACT LABOR - 3301 thru 3304

The Contract Labor account contains funds for outside services/labor that cannot be supported by COMB staff which may include elevator repair, tree trimming and removal services, heavy equipment and operators' labor costs for various small projects, meter calibration and meter repair, etc. The amounts have been distributed through 3301, 3302 & 3303 to reflect the costs accurately. Account 3304 is used to hire consultants as necessary for extraordinary engineering, design or study projects.

Totals by Account:	3301 Conduit, Meter, Valve	\$ 20,000
	3302 Buildings & Roads	20,000
	3303 Reservoirs	30,000
	3304 Engineering, misc.	<u>25,000</u>
		\$ 95,000

MATERIALS / SUPPLIES - 3401 thru 3403

The Materials and Supplies account covers costs related to operation and maintenance of the conduit, reservoirs, and outlying buildings and roads. This account includes funding for gravel, fencing, charts, locks, paint, fire extinguishers, etc.

Totals by Account:	3401 Conduit, Meter, Valve	\$ 65,000
	3402 Buildings & Roads	8,000
	3403 Reservoirs	<u>5,000</u>
		\$ 78,000

OTHER EXPENSES - 3501 thru 3506

The Other Expenses account includes utilities, uniforms, hazardous waste disposal, communications (phones at facilities and cell phones for operations & maintenance), Underground Service Alerts, employee training and certifications. All of these costs are based on actual charges for the services and changes in amounts are made only as necessary. This account is budgeted slightly less than the prior fiscal year.

Totals by Account:	3501 Utilities	\$ 7,000
	3502 Uniforms	5,000
	3503 Communications	18,000
	3504 USA & Other Svcs	4,000
	3505 Misc.*	8,000
	3506 Training & Certs	<u>3,000</u>
		\$45,000

*Misc detail:

Operations Division non-fixed assets expenses, computer/software/office supply needs, shipping, refuse/recycle/green waste/non-hazmat material disposal, portable toilets/roll off boxes, operations employment ads/background checks.

Non-fixed assets	\$ 1,000
Operations computer/ Software/office supply needs	500
Refuse/recycle, etc.	3,000
Portable toilets/roll offs	<u>3,500</u>
	\$ 8,000

TOTAL O & M EXPENSES – Operations Division

\$1,062,108

OPERATIONS DIVISION - GENERAL AND ADMINISTRATIVE EXPENSES

Program Description

The General and Administrative (G & A) accounts reflect costs for support of all administrative functions of COMB. The G & A portion of the budget provides for the time and effort spent by administrative staff in many areas that are to the benefit of all five Member Units of COMB. These include water supply and delivery reports, human resources and risk management, tax, audit, contractual and employment law, salary & benefits, accounting and bookkeeping, communications with Federal, State and local agencies and the general public on a variety of contractual and informational matters. Most of the Administrative accounts are allocated between the Operations Division (65%) and the Fisheries Division (35%) according to payroll allocations.

DIRECTORS' FEES - 5000

This account reflects Directors' fees at a rate of \$128.00 per meeting and mileage expenses and remains unchanged from the previous fiscal year. The Directors will decide future increases by public meeting and change of ordinance. This cost is allocated between the Operations and Fisheries division.

Total of this account: \$13,000

AUDIT - 5100

This account reflects costs for the annual COMB audit allocated 65% to the operations division and 35% to the fisheries division.

Total of this account: \$21,625

LEGAL - 5101

This account reflects costs for the COMB general counsel and any special litigation expenses.

Total of this account: \$75,000

UNEMPLOYMENT TAX - 5150

COMB belongs to the California State Unemployment "self-insured" program which means that we do not actually pay unemployment premiums, but we must budget for and have the ability to pay any unemployment claims which may arise. This account is an estimate.

Total of this account: \$ 5,000

LIABILITY / PROPERTY INSURANCE - 5200

This account reflects insurance costs for coverage provided by ACWA/JPIA for all general liability, property insurance (buildings, personal property, fixed equipment, and catastrophic coverage), crime coverage, employee dishonesty, and replacement costs. The general liability premiums are based on a formula that includes annual payroll as well as a three year loss history of claims. The property insurance premiums are based on value of property in which

coverage is provided. The general liability and property insurance line item is an allocated cost between Operations and Fisheries Divisions.

Total of this account: \$ 50,551

HEALTH AND WORKERS' COMPENSATION, Retirees Medical - 5201

This account reflects costs for 65% of all administrative staff health premiums (medical, dental, vision & life), and employee assistance program (EAP), workers' compensation premiums as well as all retiree health premiums. The cost for health premiums is a set premium amount for each employee and their dependents, as well as eligible retirees, depending on hire date. The health, workers compensation and life insurance programs were negotiated through ACWA/JPIA and, although there have been substantial increases in the past, the premiums have remained competitive throughout the years. This line item includes a projected increase in health premiums which may occur in January 2018.

Total of this account: \$222,951

CalPERS - 5250

This account reflects costs for the California Public Employees Retirement System. The costs are based on 65% of salaries for all COMB administrative staff. COMB pays the employer and employee cost for classic members and new hires pay 50% of the normal cost contributions. Our current employer contribution percentage remains relatively low. The calculation of this account is payroll driven.

Total of this account: \$ 46,951

FICA & MEDICARE - 5339

This account reflects 65% of the matching share of social security and Medicare taxes for all administrative employees.

Total of this account: \$ 21,210

ADMINISTRATIVE SALARIES – 5300 - 5307

This account reflects salaries for the specified positions of General Manager, Administrative Manager, Administrative Assistant III, and Administrative Assistant II at 65% apportionment. The salaries for all administrative staff (except the GM) contain a 1.73% cost of living increase. The COLA calculation is based on a melding of both the Los Angeles / Riverside index with the US City average index for a 13 month rolling period. The salary for the General Manager is set by the COMB Board. This line item has been reduced as compared to the prior fiscal year.

Total of these accounts: \$ 277,258

OFFICE EXPENSE & POSTAGE - 5310

The Office Expense & Postage account reflects the cost of all office supplies and postage for general and administrative tasks. General and Administrative expenses have been reduced to the lowest level of effective operation.

Total of this account: \$ 5,000

OFFICE EQUIPMENT/LEASES/SERVICES - 5311

The Office Equipment/Leases account includes costs associated with leases and quarterly service agreements for postage machine, copier equipment and any maintenance fees.

Total of this account: \$ 9,200

MISCELLANEOUS ADMINISTRATIVE EXPENSE - 5312

This account contains funds necessary for office cleaning, board meeting supplies, outside payroll services, building alarm renewal, and miscellaneous expenses. General and Administrative expenses have been reduced to the lowest level of effective operation.

Office Cleaning	\$2,500
Paychex payroll costs	3,600
Misc. expenses	<u>2,500</u>
Total of this account:	\$ 8,600

COMMUNICATIONS - 5313

This account contains funds necessary for the telephone service, long distance service, cable internet service, conference call service and cell phone service. General and Administrative expenses have been reduced to the lowest level of effective operation.

Total of this account: \$ 8,500

UTILITIES - 5314

This account contains funds necessary to provide utilities to the administrative offices.

Total of this account: \$ 9,737

MEMBERSHIP DUES - 5315

This account reflects membership dues for ACWA, ASME, APWA, AWWA, and subscriptions for professional publications.

Total of this account: \$ 8,500

ADMINISTRATIVE FIXED ASSETS - 5316

This fiscal year's fixed assets include the replacement of computers and office furniture as needed.

Total of this account: \$ 3,000

COMPUTER CONSULTANT - 5318

This account was established for an outside consulting company which provides monitoring and technical support for all of our information technology and computer related needs. This account has been reduced due to contracting with a new consultant on a time and materials basis.

Total of this account: \$ 15,000

EMPLOYEE EDUCATION / TRAINING - 5325

This account was established to provide employees with the ability to obtain professional training, required certifications and for management training purposes. This account also provides for human resources and employee related subscriptions. This account remains the same as compared to the prior fiscal year.

Total of this account: \$ 2,000

ADMINISTRATIVE TRAVEL - 5330

This account reflects actual travel costs for the COMB staff. This account is also used for attendance at conferences by the General Manager and/or staff.

Total of this account: \$ 2,000

PUBLIC INFORMATION - 5331

This account is available for public information bulletins, website or newsletters in order to communicate with the community in case of emergencies or environmental impacts on the COMB water distribution system or reservoirs.

Total of this account: \$ 1,000

TOTAL GENERAL AND ADMINISTRATIVE - Operations Division **\$ 806,082**

OPERATIONS DIVISION - SPECIAL GENERAL AND ADMINISTRATIVE

INTEGRATED REGIONAL WATER MANAGEMENT PLAN - 5510

This account has been established for COMB to participate in the development and maintenance of an integrated regional water management plan for Santa Barbara County.

Total of this account: \$ 5,000

**TOTAL SPECIAL GENERAL AND ADMINISTRATIVE -
Operations Division**

\$ 5,000

OPERATIONS DIVISION - INFRASTRUCTURE IMPROVEMENT PROJECTS

(Refer to Infrastructure Improvement Plan for FY 2016-17 project descriptions)

SCADA SYSTEM - 6062 \$ 20,000

COMB BUILDING AND GROUNDS REPAIR - 6090 \$ 20,000

GIS AND MAPPING - 6097

Over the past several years, COMB has developed a Geographical Information System by purchasing and maintaining the latest software, components, and data input. This budget year COMB continues to update the GIS data base with current information that also periodically requires software updates. This account will also be used to keep licenses current and maintenance of the programs up to date. The GIS database is used daily for USA callouts and the newly developed maintenance management program.

Total of this account: \$ 10,000

SCC STRUCTURE REHAB (AVAR/BO VALVES) - 6096 \$225,000

RIGHT OF WAY IDENTIFICATION PROGRAM - 6105 \$ 20,000

REPAIR LATERAL 3 STRUCTURE - 6118 \$100,000

REHABILITATE SAN ANTONIO CREEK BLOW-OFF - 6122 \$ 35,000

NORTH PORTAL SLOPE STABILIZATION - 6130 \$ 30,000

SYCAMORE CANYON SLOPE STABILIZATION - 6132 \$300,000

METER REPLACEMENT PROJECT - 6133 \$100,000

NORTH PORTAL IT/CONTROL BLDG SEISMIC ASSMT - 6134 \$100,000

SCC SAN JOSE CREEK PIP STABILIZATION EVAL - 6135 \$ 60,000 **

INFRASTRUCTURE IMPROVEMENT PROJECTS TOTAL **\$1,020,000**

**** SCC SAN JOSE CREEK PIP STABILIZATION EVAL - To be assessed once approved by the Board**

EMERGENCY PUMPING FACILITIES PROJECT - 6120

This line item will provide the resources necessary to pump Carryover, State and Supplemental water from the lake to the intake tower. At a special meeting on February 13, 2017, the Board ratified the decision made by the General Manager for the full demobilization of the Emergency Pumping Facility (EPF) due to increased lake levels. The board subsequently authorized the General Manager to execute an agreement with the contractor for an additional two years, for a predetermined amount, to store key components of barge. The agreement also included an agreed upon amount to re-establish a fully-functioning EPF if conditions require. The two year commitment to store the equipment will be paid by carryover funds from FY 2016-17.

Total of this account: \$0

TOTAL IIP and Special Projects **\$ 1,020,000**

TOTAL OPERATIONS DIVISION BUDGET **\$ 2,893,190**

FISHERIES DIVISION – O&M EXPENSES

Program Description

To maintain and support all associated costs of operation and maintenance as they relate to the implementation of the NMFS Biological Opinion and the Lower Santa Ynez River Fish Management Plan.

LABOR – 4100 - 4152

The Fisheries Division Labor line item reflects labor costs and benefits for a Senior Resource Scientist, a three member field crew, and four part-time seasonal bio-aide positions. The benefits include medical, dental and vision insurance coverage, a \$20,000 life insurance policy per employee, deferred compensation, matching social security contributions, mandatory workers' compensation coverage, an employee assistance program (EAP), FICA/Medicare and a CalPERS retirement contribution (2% @ 55 formula - All employees hired after January 2013 who are not classified as "classic" members will contribute 6.25% of the CalPERS retirement premium from their bi-weekly paycheck). This line item includes a 1.82% COLA per the annual calculation.

Totals by Account	4100 Labor Biology Field Crew	\$ 363,620
	4114 Labor Seasonal Field Crew	68,000
	4151 CalPERS	81,035
	4150 Health Insurance	116,119
	4150 Workers Compensation	21,581
	4152 FICA	<u>33,019</u>
	Total of these accounts:	\$ 683,374

VEHICLES & EQUIPMENT - 4270 thru 4290

The Vehicles and Equipment section is made up of three accounts which include funds for the purchase of vehicles, fuel, parts, inspections and maintenance of vehicles and equipment. Account 4270 includes supplies necessary to operate vehicles and equipment such as fuel, oil, tires, parts, inspections and labor, etc. This account reflects amounts determined by historical expense data and projected operational needs. Account 4280 contains funds for the purchase or replacement of equipment or large tools as may be necessary in the fiscal year,. Account 4290 includes funding all miscellaneous items affiliated with vehicles or equipment. These accounts are increased or decreased annually to reflect changes in the price and number of items appropriately designated to be purchased from these accounts.

Totals by Account:	4270 Vehicles	\$ 15,000
	4280 Fixed Capital	15,000
	4290 Miscellaneous	<u>2,500</u>
		\$ 32,500

CONTRACT LABOR – 4220, 4222

The Contract Labor account contains funds for outside services/labor to support equipment calibration on flow meters and sonde meters, and funds for technical assistance corresponding to the operation, maintenance and performance review of completed fish passage projects. Completed tributary projects at Rancho San Julian, Cross Creek Ranch, and

Quiota Creek Crossings require annual performance evaluation; licensed fish passage engineers need to conduct the structural evaluation whereas the biological evaluation and report are done by COMB staff. This line item also contains funding for 50% of the CCC contract.

Totals by Account:	4220 Equip. Calib.	\$ 3,000
	4222 Projects Maint.	<u>25,000</u>
		\$ 28,000

MATERIALS / SUPPLIES - 4390

The Materials and Supplies account covers costs for the purchase of materials needed for the Fisheries Monitoring Program specifically monitoring for migration, spawning and over-summering such as constructing and repairing fish migration traps (pvc, netting, plywood, locks, waders, etc.) and the equipment necessary to conduct snorkel (dry suit, masks, snorkels, hoods, gloves, etc.) and redds surveys (waders, clipboards, etc).

Total of this account:	\$ 7,000
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OTHER EXPENSES - 4502

The Other Operating Expenses account includes funds to pay for uniforms and gear for the fisheries employees. This account is based on actual charges for the above services and changes in amounts are made only as necessary.

Total of this account:	\$ 2,500
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TOTAL O & M EXPENSES – Fisheries Division **\$753,374**

FISHERIES DIVISION - GENERAL AND ADMINISTRATIVE**Program Description**

The General and Administrative accounts reflect costs for support of all fisheries division administrative functions of COMB. The salaries and benefits are divided at a 65% - 35% basis between the Operations Division and the Fisheries Division based on payroll allocations. General and Administrative expenses have been reduced to the lowest level of effective operation for FY 2017-18.

DIRECTORS FEES - 5426

This account reflects Directors' fees at a rate of \$128.00 per meeting and mileage expenses. The increase from the prior year affiliated with this account is due to the inclusion of costs for any Special Board meetings and a more regular use of the Committee process. The Directors will decide future increases by public meeting and change of ordinance. This cost is allocated between Operations and Fisheries divisions.

Total of this account: \$7,000

LEGAL - 5407

This account reflects the costs for General Counsel expense affiliated with the Fisheries Division program of work.

Total of this account: \$ 20,000

AUDIT - 5441

This account reflects costs for a portion of the annual COMB audit.

Total of this account: \$ 7,175

LIABILITY/PROPERTY INSURANCE - 5443

This account reflects a portion of insurance costs for coverage provided by ACWA/JPIA for all general liability and property i.e., buildings, structures, computers, modular furniture, copiers, postage meters, vehicles and an increase in replacement costs of all properties belonging to COMB.

Total of this account: \$ 24,745

HEALTH AND WORKERS' COMPENSATION - 5401

This account reflects costs for 35% of all administrative staff health premiums (medical, dental, vision & life), and employee assistance program (EAP), deferred compensation and workers' compensation premiums. The cost for health premiums is a set premium amount for each employee and their dependents. The health and life insurance programs were negotiated through ACWA/JPIA and although there have been substantial increases in the past, the

premiums have remained competitive throughout the years. This line item includes a projected increase in health premiums which may occur in January 2018.

Total of this account: \$ 39,475

CalPERS - 5402

This account reflects 35% percent of costs for the California Public Employees Retirement System for administrative personnel charged to the fisheries division. All employees hired after January 2013 who are not classified as “classic” members will contribute 6.25% of the CalPERS retirement premium from their bi-weekly paycheck. The calculation of this account is payroll driven.

Total of this account: \$ 25,281

FICA & MEDICARE - 5403

This account reflects 35% of the matching share of social security and Medicare taxes for all administrative employees.

Total of this account: \$ 11,421

SALARIES - 5404, 5405, 5408, 5409, 5419

This account reflects a 35% allocation of salaries for the General Manager, Administrative Manager, Administrative Assistant III, and Administrative Assistant II.

Total for this account: \$149,293

POSTAGE / OFFICE SUPPLIES EXPENSE - 5410

The Office Expense & Postage account reflects the cost of all office supplies and postage for general and administrative tasks attribute to the fisheries division.

Total of this account: \$ 4,000

OFFICE EQUIPMENT/LEASES/SERVICES - 5411

The Office Equipment / Leases account includes the fisheries division portion of leases and quarterly service agreements for postage machine, copier equipment and any maintenance fees.

Total of this account: \$ 5,218

MISCELLANEOUS ADMINISTRATIVE EXPENSE - 5412

This account contains funds necessary for office cleaning, Board meeting supplies, Paychex payroll costs, outside copy costs and other minor miscellaneous expenses.

Total of this account: \$ 5,610

COMMUNICATIONS - 5413

This account contains funds necessary for the telephone service, long distance service, cable internet service, and staff cell phones.

Total of this account: \$ 4,305

UTILITIES - 5414

This account contains funds necessary to provide utilities to the administrative offices affiliated with the fisheries division program of work.

Total of this account: \$ 5,243

MEMBERSHIP DUES - 5415

This account reflects costs for membership dues for the American Fisheries Society as well as a portion of ACWA dues as they pertain to the fisheries division employees. This account also covers subscriptions for professional publications.

Total of this account: \$ 5,500

ADMINISTRATIVE FIXED ASSETS - 5416

This fiscal year's fixed assets include the purchase of computers according to the replacement schedule and office equipment / furniture as needed.

Total of this account: \$ 3,000

COMPUTER CONSULTANT / SOFTWARE LICENSES - 5418

This account was established to fund needs for all computer and internal network systems support through outside computer consultant services. It also accommodates purchasing and updating of software licenses.

Total of this account: \$ 5,000

EMPLOYEE EDUCATION / SUBSCRIPTIONS - 5425

This account was established to provide employees with the ability to obtain professional training, required certifications and for management training purposes specifically for in field and office operations, and safety and regulatory compliance. This account also provides for employee related subscriptions to professional fisheries organizations.

Total of this account: \$ 2,500

ADMINISTRATIVE TRAVEL - 5430

This account provides for actual travel costs for professional conferences, seminars,

training, and strategy meetings that are attended by the General Manager and/or staff throughout the fiscal year.

Total of this account: \$ 2,500

PUBLIC INFORMATION - 5431

This account is for miscellaneous costs that may arise out of public records act requests, newsletters, webpage support or other public information requirements.

Total of this account: \$ 1,500

**TOTAL GENERAL AND ADMINISTRATIVE EXPENSES
Fisheries Division -**

\$ 328,766

FISHERIES DIVISION - SPECIAL PROJECTS**BIOLOGICAL OPINION/FMP IMPLEMENTATION - 6201**

This line item provides funding for outside consultant support on activities which include participation in the NFMS Biological Opinion compliance preparation as well as review of technical reports, study plans, participation in coordination and review meetings and conference calls.

BO Compliance Tasks and Support

\$38,000

This task addresses ongoing Cachuma Project Biological Opinion (BO) compliance efforts and implementation of the Lower Santa Ynez River Fisheries Monitoring Program (FMP). As needed, consultants will provide technical and analytical support and review of the fisheries monitoring program and any proposed study plans. This may require participation on the Science Advisory Committee to obtain consensus on the recommendations. A fish passage engineer will review, evaluate, and develop technical elements of fisheries related monitoring, fish passage and restoration program elements. In addition, this item includes bio-statistician support and genetic tissue analysis (fish fin clips) conducted by a National Marine Fisheries Service certified geneticist. Activities may involve background research, concept development, content development and production schematics support for the ongoing BO and FMP activities.

AMC and CC Participation and Technical Support

\$2,000

Conference calls preparation and follow-up per call as well as participation in face-to-face meeting of the AMC and CC if necessary. Technical support to COMB in preparing work products for the AMC and the CC as required.

Review of Fisheries Monitoring Reports

\$20,000

Review of any fisheries monitoring reports that are prepared by the Cachuma Project Biology Staff. These reports would be compliance measures for terms and conditions presented in the BO and would include the Annual Monitoring Report and technical memos prepared for Reclamation as well as the AMC, CC or COMB Board. This may include participation on the Science Advisory Committee to discuss comments on the reviewed reports.

Total of this account: \$ 60,000

GIS AND MAPPING - 6202

This account provides funds for the purchase and maintenance of the GIS and GPS system components, software (ESRI, AutoCAD, Field Maplet, MapLogic, Photoshop), hardware, aerial imagery, and GIS/GPS technical support.

Total of this account: \$ 10,000.

GRANTS AND SEMINAR TECHNICAL SUPPORT - 6203

This account provides funds for restoration grant technical evaluation and review to assure the most complete, thorough and competitive grant application possible in support of the Fisheries Program. In addition, these funds will be used for needed technical seminars on specific subjects in support of the endangered southern steelhead on the Lower Santa Ynez River.

Total of this account: \$ 10,000.

SYR HYDROLOGY TECHNICAL SUPPORT - 6204

This project includes funding for consultants who provide hydrologic support for analyzing operations in the SYR basin and operations for the Fisheries Program.

Total of this account: \$ 8,000

USGS STREAM GAUGE PROGRAM - 6205

This line item is to fund the required stream discharge and water quality monitoring on the lower Santa Ynez River and its tributaries in compliance with the NMFS Biological Opinion.

Total of this account: \$ 100,000

TRI COUNTY FISH TEAM FUNDING - 6206

This line item is to fund COMB's agreed upon portion of the MOU for financial support of the Tri-County salmonid restoration efforts.

Total of this account: \$ 5,000

TOTAL PROGRAM SUPPORT SERVICES**\$193,000**

FISHERIES DIVISION - HABITAT IMPROVEMENT PLAN PROJECTS**OAK TREE RESTORATION PROGRAM - 6207**

This line item is to fund the tenth year of oak tree planting efforts at several planting sites bordering the Cachuma Lake and Bradbury Dam. This planting and maintenance program is intended to result in a 2:1 replacement of oak trees lost due to the higher water elevations during surcharge events.

Total of this account: \$ 40,000

TRIBUTARY PROJECTS SUPPORT CONSULTANT - 6303

This line item is to fund technical assistance provided by a fish passage engineer for tasked anticipated to include refinement of monitoring methods and procedures, hydraulic review of fish passage within a stream network, troubleshooting of general operation and maintenance issues, and review of miscellaneous technical data and reporting.

Total of this account: \$ 20,000

QUIOTA CREEK CROSSING No. 8 - 6315

This line item is to fund the continued design and construction effort on Quiota Creek Crossing No. 8 which will be used for NMFS and CDFW design approval as well as permitting with regulatory agencies and the County of Santa Barbara. Design engineering will continue toward 100% design level. The project has been funded by a CalTrans federal grant and will be administered by the County requiring only project oversight by COMB. Pending completed CalTrans approval, this project may start as soon as the fall of 2017.

Total of this account: \$ 60,000

QUIOTA CREEK CROSSING No. 5 - 6316

This line item is to fund the continued design effort on Quiota Creek Crossing No. 5 which is slated to take place in the fall of 2017. The CDFW has awarded grant funding of \$893,287 toward this project. COMB's net obligation for completion of this project is approximately \$67,000.

Total of this account: \$ 960,000

SALSIPUEDES FISH LADDER REPAIR - 6315

This line item is to fund the repair of the fish ladder originally installed on Salsupuedes Creek in 2004. The anticipated fix will include a modification to each weir invert to reverse the angle, enhance the grade control structure to focus more flow through the fish ladder, and

install two weirs downstream to increase the scour pool height for easier access to the fish ladder.

Total of this account: \$ 10,000

QUIOTA CREEK CROSSING No. 9 - 6318

This line item is to fund the continued design and construction effort on Quiota Creek Crossing No. 9 which will be used for NMFS and CDFW design approval as well as permitting with regulatory agencies and the County of Santa Barbara. Design engineering will continue toward 100% design level.

Total of this account: \$ 30,000

MISSION CREEK at HIGHWAY 192 - 6319 **

This line item is to fund the continued design effort to lower the South Coast Conduit pipeline by approximately 10 feet to provide sufficient coverage for the safety of the pipeline and install a roughened ramp on top that will enable juvenile and adult O.mykiss fish passage both upstream and downstream. Design engineering will continue toward 100% design level.

Total of this account: \$ 30,000

TOTAL HABITAT ENHANCEMENTS	\$1,150,000
TOTAL PROGRAM SUPPORT AND HIP:	\$1,343,000
TOTAL FISHERIES DIVISION BUDGET:	\$2,425,140
TOTAL COMB BUDGET 2017-2018	<u>\$5,318,330</u>

**** MISSION CREEK at HIGHWAY 192 - To be assessed once approved by the Board**

FY 2018-2022

Infrastructure Improvement Plan



Operations Division



Executive Summary

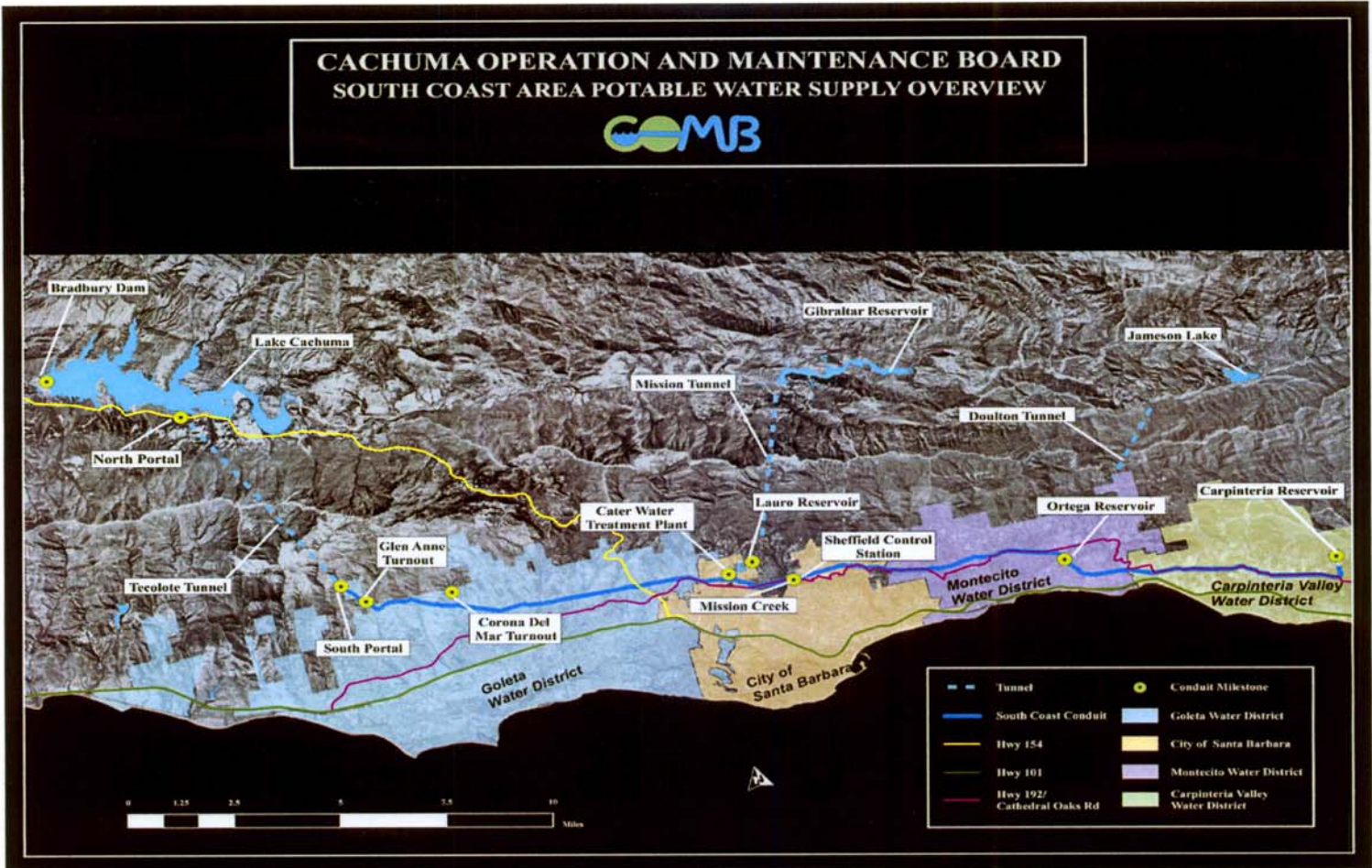
The Cachuma Project was constructed in the early 1950s by the United States Department of the Interior, U.S. Bureau of Reclamation under contract with the Santa Barbara County Water Agency on behalf of the Cachuma Project Member Units. The original cost of the Cachuma Project was approximately \$25.1 million. Using a CPI inflator, the present value is approximately \$212.7 million. This amount does not include labor costs increases, land use or environmental considerations that have evolved subsequent to original construction. Inclusion of these additional costs would result in a substantially higher replacement cost.

The Cachuma Member Units are the Carpinteria Valley Water District, City of Santa Barbara, Goleta Water District, Montecito Water District, and Santa Ynez River Water Conservation District-Improvement District No. 1. Cachuma Operation and Maintenance Board (COMB) is a California Joint Powers Agency formed in 1956 by the Cachuma Member Agencies pursuant to an agreement with the U.S. Bureau of Reclamation (Reclamation). The agreement transferred to the Cachuma Member Agencies the responsibility to operate, repair and maintain all Cachuma Project facilities exclusive of Bradbury Dam. COMB is the mechanism through which the Member Agencies carry out that responsibility. The Member Agencies entered into contracts with the Santa Barbara County Water Agency for the purpose of receiving water from the Cachuma Project for use and benefit of the Member Agencies. Over the past fifty years, the Project has been the principal water supply for the Santa Ynez Valley and the South Coast Communities, delivering water to approximately 200,000 people.

Water from Lake Cachuma is conveyed to the South Coast Member Agencies through an intake tower located at the east end of the reservoir, which leads into the Tecolote Tunnel. The Tecolote Tunnel extends from Lake Cachuma 6.4 miles west through the Santa Ynez Mountains to Goleta. The South Coast conduit is concrete-lined; concrete encased steel extending twenty-six miles from Goleta to Carpinteria. There are four regulating reservoirs along the South Coast Conduit: Glen Anne Reservoir (518 acre-feet) (non-operational), Lauro Reservoir (600 acre-feet), Ortega Reservoir (65 acre-feet), and Carpinteria Reservoir (44 acre-feet).

The COMB Infrastructure Improvement Plan (IIP) provides critical component detail of the system to be improved, repaired or replaced to ensure the reliability of service. The IIP faces the challenge of balancing resource demands with available resources and provides the asset analysis necessary to determine project priority for budgetary decisions. The IIP guiding principal is to protect the dependent interest of the Member Units by ensuring each asset maintains regulatory compliance, reliability, and safety. The intent of the IIP is to set forth a reasoned decision-making methodology that will protect the asset to avoid increased future cost.

COMB management and staff developed this IIP to provide a methodology for COMB Directors to make cost effective capital improvement decisions. We, the Board, General Manager and COMB Staff, are proud to serve as the stewards of this public asset that provides the lifeline conveyance of water necessary for the economy and quality of life on the South Coast of Santa Barbara County.



Overview

1.1 Introduction

COMB's Five-Year Infrastructure Improvement Plan (IIP) is structured to identify and prioritize rehabilitation projects for COMB Board and Member Agency deliberation to enable budgetary decisions. The plan will facilitate the decision-making process for the allocation of resources to rehabilitate, improve and restore the Cachuma Project infrastructure to ensure the delivery of safe, reliable water to our Member Agencies. The IIP spans a five-year planning horizon and will be updated each year to reflect necessary changes. This dynamic document will be submitted to the Operations Committee for review of the project development process. The plan will correspondingly be submitted to the Administration Committee for budget development. Concurrent with Administration Committee review, the plan will be forwarded the Member Agency General Managers for review and comment. Following Committee review, the IIP will be presented to the Board for approval and included in the annual Operating Budget.

1.2 Background

Operation and maintenance rehabilitation projects are historically a component of the COMB annual budget. The comprehensive identification of near and long-term projects over a five-year planning horizon will be subject to annual addition and amendment as the identification and analysis of operation and maintenance evolves. Previously, substantial asset rehabilitation planning work has been accomplished with the assistance of contracted engineering firms. Those efforts developed a partial inventory of assets and prioritized those rehabilitation projects with short-term needs. The US Bureau of Reclamation (USBR) conducts site inspections every 3rd and 6th year of selected Cachuma Project facilities and components. However, the ranking categories used in their inspection reports do not provide a comprehensive basis for short and long-term planning and budgetary decision-making. This plan will incorporate elements of the previous contractually developed product, site inspections conducted by USBR, and projects identified by COMB Staff.

1.3 Purpose

The IIP provides an inventory of those assets determined to require rehabilitation over a five-year planning horizon. The IIP identifies the improvements needed in the Cachuma Project System and sets forth review criteria to enable the prioritization of projects for budgeting and scheduling improvements during the five-year period. The IIP is designed in anticipation of review by COMB Directors and the Member Agencies served by COMB prior to presentation to the COMB Board of Directors for adoption as a component of the annual Operating Budget.

Projects included in the IIP are those capital projects that exceed \$25,000. The Infrastructure Improvement Plan will:

1. Display project ranking criteria to enable a structured analysis by each Director and Member Agency.
2. Identify infrastructure rehabilitation and improvement funding requirements for asset management planning.
3. Provide a comprehensive list of assets reviewed.
4. Serve as a strategic planning document.
5. Serve as the basis for COMB capital budget planning and development.
6. Serve as the basis for COMB Member Agency budget planning.
7. Serve as a comprehensive planning document for the Board of Directors and the public.

1.4 Evaluation Methodology Process

Step 1

- Evaluation and assessment of water delivery system and components.
- Deficiencies and Projects identified through contractor review, USBR, or COMB.

Step 2

- Rating Criteria developed to quantify the level of importance of identified projects.

Step 3

- Projects individually ranked and prioritized pursuant to rating criteria.
- Development of individual project summaries to provide information for decision-making review.

Projects may be shifted to out years and replaced with other approved projects based on conditions that would impact a shutdown of the South Coast Conduit or other considerations. Conversely, conditions that would allow a minimally disruptive shutdown may cause a project or projects to be moved forward. It is the intent to have projects shovel ready to enable completion during optimal conditions and to minimize shut-downs of the South Coast Conduit.

The South Coast Conduit has six shutdown valve locations extending from the South Portal that allows a locational shutdown of the system for maintenance and repair thereby reducing system disruption.

**Description of Rating Criteria
Table 1**

32%	<u>Water Supply Reliability</u>		
	3	High	Major disruption to system and prohibits ability to operate and maintain water delivery
	2	Medium	Moderate impact to system and impedes ability to operate and maintain water deliver
	1	Low	No Impact to service or operation and maintenance activities
30%	<u>Risk</u>		
	3	High	Major consequence to O & M of system due to significant future cost increase by delaying project
	2	Medium	Minor consequence to O & M of system; between 25-50% future cost increase due to delay of project
	1	Low	Insignificant consequence to O & M of system and up to 25% future cost increase due to delay of project
18%	<u>Critical Need/Life Cycle of asset</u>		
	3	High	Potential to fail within one year or less; asset has reached expected service life
	2	Medium	Potential to fail with the next three years or identified as project by outside government agency
	1	Low	Potential to fail within the next five years
12%	<u>Safety</u>		
	3	High	Significant failure potential which will endanger agency personnel, property or other COMB assets
	2	Medium	Moderate failure potential which will endanger agency personnel, property or other COMB assets
	1	Low	Desirable safety upgrade for ease of operation and maintenance
8%	<u>Service Disruption Necessary to Accomplish Project</u>		
	3	High	Less than 12 hour service disruption to accomplish project
	2	Medium	12-48 hour service disruption to accomplish project
	1	Low	Greater than 48 hour service disruption to accomplish project
100%	The criteria percentages were established using factors deemed important specifically to the Cachuma Project System.		

1.5 Funding

Funding of projects identified in the IIP will be determined annually by the COMB Board of Directors as a component of the development and approval of the annual budget. Fund sources for IIP implementation will be derived from either long-term or short-term financing, grants or ongoing assessments from each of the participating Member Agency Agencies.

1.6 Cost Estimates

The cost estimates included for each IIP project are derived from internal estimates or developed by professional engineering consultants. Estimates may change as more precise information becomes available.

1.7 Overview of Funding

The allocation of IIP funds is a separate component of the annual COMB Budget. Amendments to the IIP during the budget-year will be reviewed by the COMB Administrative Committee and require approval by the Board of Directors for any expenditure modification exceeding ten percent of the project amount. Expenditure authority for individual projects, unless otherwise directed, is available for three fiscal years following the date of approval.

Table: 5-year Infrastructure Improvement Plan Scoring Matrix

Infrastructure Improvement Plan Projects		Page No.	Water Supply Reliability		Risk		Critical Need		Safety		Service Disruption		Ranking
COMB I.D.	Project Name/Description		Score	Wt. Score	Score	Wt. Score	Score	Wt. Score	Score	Wt. Score	Score	Wt. Score	
2016-C-3	Sycamore Canyon Slope Stabilization	10	3	32%	3	30%	3	18%	3	12%	3	8%	100%
2014-C-62	South Coast Conduit AVAR Riser Pipe Replacement *	12	3	32%	3	30%	3	18%	3	12%	2	5%	97%
2012-1-26	South Coast Conduit Air Vacuum Air Release Valve Replacement / Relocation *	13	3	32%	3	30%	3	18%	3	12%	2	5%	97%
2013-1-42	South Coast Conduit Blow-Off Riser Pipe Replacement *	15	3	32%	3	30%	3	18%	3	12%	2	5%	97%
2013-C-47	Repair of Lateral 3 - Upper Reach	16	3	32%	3	30%	3	18%	2	8%	3	8%	96%
2017-C-2	Meter Replacement Project *	17	3	32%	3	30%	3	18%	2	8%	3	8%	96%
2012-2-35	Rehabilitate San Antonio Creek Blow-off *	18	3	32%	3	30%	3	18%	3	12%	1	3%	95%
2016-C-1	North Portal Tecolote Intake Tower Seismic Analysis & Conditions Assessment	19	3	32%	3	30%	2	12%	3	12%	3	8%	94%
2016-C-2	San Jose Creek - South Coast Conduit Crossing	20	3	32%	3	30%	3	18%	2	8%	2	5%	93%
2014-C-58	North Portal Slope Stabilization	21	3	32%	3	30%	2	12%	2	8%	3	8%	90%
2015-C-1	North Portal Jet Flow Valve Replacement *	22	3	32%	3	30%	2	12%	2	8%	3	8%	90%
2013-C-56	Mission Creek South Coast Conduit Crossing	23	3	32%	3	30%	2	12%	2	8%	3	8%	90%
2017-C-1	Upper Reach Reliability Project (MURRP) - Phase II	25	3	32%	3	30%	2	12%	2	8%	3	8%	90%
2011-C-57	Glen Annie Reservoir Rehabilitation	26	2	21%	3	30%	2	12%	3	12%	3	8%	83%
2015-C-3	Rehabilitate South Coast Conduit Lower Reach Lateral Structures *	29	3	32%	2	20%	2	12%	2	8%	2	5%	77%
2007-2-33	Sheffield Tunnel Inspection and Evaluation	30	3	32%	2	20%	1	6%	2	8%	3	8%	74%
2014-C-59	South Portal Slope Stabilization	31	2	21%	3	30%	2	12%	2	8%	1	3%	74%
2013-2-20	Inspect Interior of Ortega Outlet Pipe *	32	3	32%	2	20%	1	6%	2	8%	2	5%	71%
2001-2-28	Inspect Interior of Sheffield Tunnel Pipe *	32	3	32%	2	20%	1	6%	2	8%	2	5%	71%
2001-2-10	Inspect Interior of Lauro Dam Pipe *	32	3	32%	2	20%	1	6%	2	8%	2	5%	71%
2013-2-39	Inspect Interior of Carpinteria Control Station Pipe *	32	3	32%	2	20%	1	6%	2	8%	2	5%	71%
2012-2-36	Install a second sump pump in the lower chamber of the North Portal	34	2	21%	2	20%	2	12%	2	8%	3	8%	69%
2013-C-15	Rebuild inflow Rip Rap at Lauro Reservoir	35	2	21%	2	20%	2	12%	2	8%	2	5%	67%
2005-2-55	Tecolote Tunnel Concrete Deterioration Investigation *	36	1	11%	2	20%	2	12%	1	4%	2	5%	52%
2005-2-31	Clean clogged weep holes in Tecolote Tunnel *	37	1	11%	2	20%	2	12%	1	4%	2	5%	52%
2013-2-41	Investigate Steel collar between outlet works & 48" intake pipe at Lauro Tunnel	38	2	21%	1	10%	1	6%	1	4%	3	8%	49%
1999-2-53	Waterproof gate shaft in the North Portal	39	1	11%	1	10%	2	12%	1	4%	3	8%	45%
2013-2-43	Locate Discharge Pipe; Outfalls at Four Blow-off Stations	40	1	11%	1	10%	1	6%	1	4%	3	8%	39%
	*Indicates System Shutdown required												

Table: 5-year Budget Matrix

Project ID	Project Name	Ranking	2017-18	2018-19	2019-20	2020-21	2021-22	5-yr Totals
2016-C-3	Sycamore Canyon Slope Stabilization	100%	\$300,000					\$300,000
2014-C-62	SCConduit AVAR Riser Pipe Replacement	97%	\$100,000	\$100,000	\$100,000	\$100,000		\$400,000
2012-1-26	SCConduit AVAR Valve Replacement/ Relocation (6) (FY 2016-17 C/O funds) \$100,000	97%	\$0					\$0
2013-1-42	SCConduit Blow-Off Riser Pipe Replacement	97%	\$125,000	\$225,000	\$225,000	\$225,000		\$800,000
2013-C-47	Repair Lateral 3 - Upper Reach	96%	\$100,000					\$100,000
2017-C-2	Meter Replacement Project	96%	\$100,000	\$50,000	\$50,000	\$50,000		\$250,000
2012-2-35	Rehabilitate San Antonio Creek Blowoff	95%	\$35,000					\$35,000
2016-C-1	North Portal Intake Tower Seismic Analysis & Conditions Assessment	94%	\$100,000					\$100,000
2016-C-2	San Jose Creek - South Coast Conduit Crossing	93%	\$60,000	\$1,420,000				\$1,480,000
2014-C-58	North Portal Slope Stabilization	90%	\$30,000					
2013-C-1	North Portal Jet Flow Control Valve Replacement	90%		\$300,000				\$300,000
2013-C-56	Mission Creek - South Coast Conduit Crossing	90%		\$50,000	\$400,000	\$2,100,000		\$2,550,000
2017-C-1	Upper Reach Reliability Project - Phase II	90%		\$200,000	\$300,000	\$3,500,000	\$4,000,000	\$8,000,000
2011-C-57	Glen Annie Reservoir Rehabilitation	83%		\$0	\$0	\$0	\$0	\$0
2015-C-3	Rehabilitate South Coast Conduit Lower Reach Lateral Structures	77%		\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
2007-2-33	Sheffield Tunnel Inspection and Evaluation of SCC components	74%		\$100,000	\$300,000			\$400,000
2014-C-59	South Portal Slope Stabilization	74%		\$50,000	\$750,000			\$800,000
2013-2-20	Inspect interior of Ortega Outlet Pipe	71%		\$36,000				\$36,000
2001-2-28	Inspect interior of Sheffield Tunnel Pipe	71%		\$20,000				\$20,000
2001-2-10	Inspect interior of Lauro Dam Pipe	71%		\$12,000				\$12,000
2013-2-39	Inspect interior of Carpinteria Control Station	71%		\$74,000				\$74,000
2012-2-36	Install a second sump pump in the lower chamber of the North Portal	69%		\$35,000				\$35,000
2013-C-15	Rebuild inflow Rip Rap at Lauro Reservoir	67%		\$200,000				\$200,000
2005-2-55	Tecolote Tunnel Concrete Deterioration Investigation	52%			\$100,000			\$100,000
2005-2-31	Clean clogged weep holes Tecolote Tunnel	52%			\$200,000			\$200,000
2013-2-41	Structural Assessment: Steel collar at Lauro Tunnel	49%			\$30,000			\$30,000
1999-2-53	Waterproof gate shaft in the North Portal	45%			\$70,000			\$70,000
2013-2-43	Locate Discharge Pipe; Outfalls at Four Blow- off Stations	39%			\$40,000			\$40,000
	Totals		\$950,000	\$2,922,000	\$2,615,000	\$6,025,000	\$4,050,000	\$16,532,000

**Sycamore Canyon Slope Stabilization
(2016-C-3)**

Project Ranking

100%

Total Estimated Cost: \$300,000



Background

The South Coast Conduit is a concrete-lined, concrete encased steel pipeline extending twenty-six miles from the Goleta reach south to Carpinteria. The pipeline ranges in diameter throughout various reaches of the system and is designed to flow water from Cachuma Lake by gravity. Erosion caused by severe runoff on dry hillsides affected by the recent five year drought has caused exposure of the pipeline in the Sycamore Canyon section of the system.

Need for Project

The exposed portion of the South Coast Conduit is vulnerable to pipeline failure resulting from structural damage, corrosion, and or additional erosion material sliding over the conduit. This vulnerability poses a significant risk to system operation. This project would consist of securing the conduit at this location and restore appropriate engineered fill over the pipeline on the slope in order to eliminate risk associated with the continued hillside erosion during storm events.

Description

Engineering services would be retained to conduct a site evaluation and perform a geotechnical study and project design to stabilize the slope and ensure protection and access to the pipeline. The construction phase would implement the repair in accordance with the engineering design, recommendations and specifications.

Phase I (Fiscal Year 2017-18): Site evaluation and engineering design

Phase II (Fiscal Year 2017-18): Secure Pipeline - Slope Stabilization and Protection (based on design plan completed in Phase I).

Regulatory Compliance

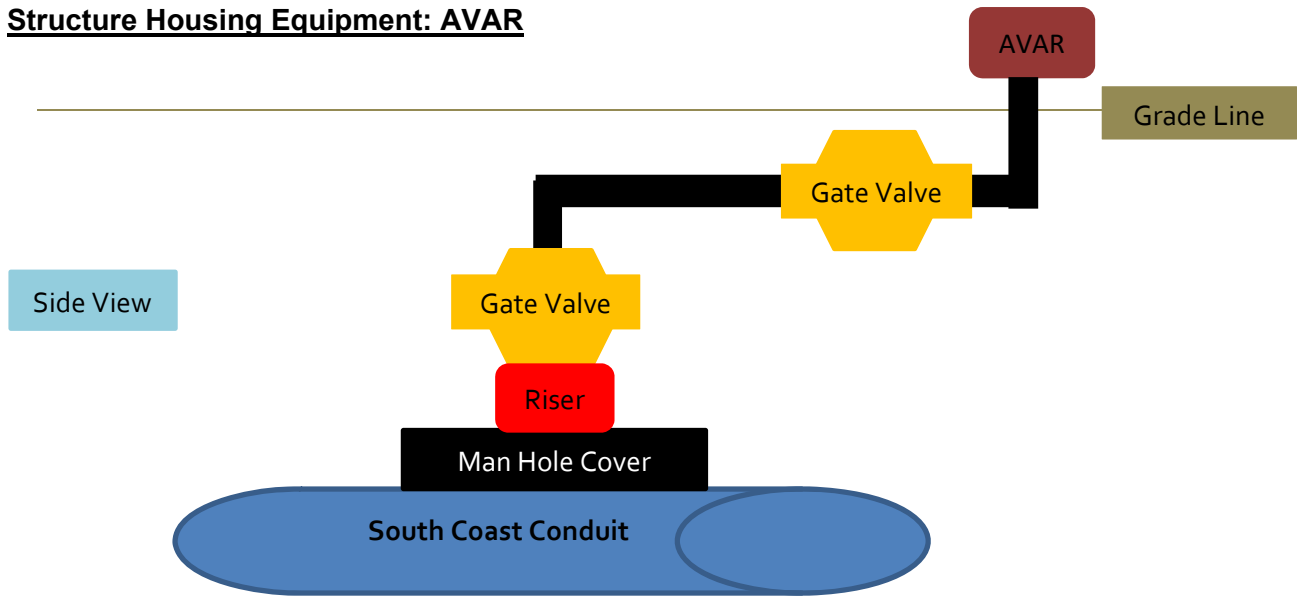
Located in USBR Right-of-Way

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2017-18 (Phases I & II)	\$ 300,000
Total	\$ 300,000

Structure Housing Equipment: AVAR



The appurtenant structures involved with the South Coast Conduit system are depicted in the sketch above. These structures are identified as either Lateral structures, Air Vacuum Air Release (AVAR) structures, or Blow-off structures.

Divided into the Upper Reach (from the South Portal to Lauro Dam) and the Lower Reach (from the Cater Treatment Facility to Carpinteria), each structure contains a man hole cover, a riser, a gate valve and an air vacuum air release valve (AVAR). The concrete structures containing these components are called vaults and are located above and below ground level on top of the South Coast Conduit (SCC).

The total number of AVAR structures on the SCC is **57**.

The Upper Reach contains **31** AVAR structures and the Lower Reach contains **26** AVAR structures.

The internal components are described as follows:

- **Man Hole Cover** - sits directly on top of the pipe providing direct access inside the SCC.
- **Riser component** - serves as a connection between the manhole cover and the gate valve.
- **Gate Valve** - under normal operation this valve is open to allow the AVAR to function.
- **AVAR** - functions to allow volume of air to be exhausted from or admitted into the pipeline to protect the system from a loss of capacity and prevent the pipe from collapsing in the event of a break in the pipe.

AVARs	Total Structures	100% Complete	Need Man Hole	Need Riser	Need Gate Valve
Upper Reach	31	31	0	0	0
Lower Reach	26	6	20	20	20
Total	57	37	20	20	20

South Coast Conduit Riser Pipe Replacement – Air Vacuum Air Release Valve (AVAR) Structures (2014-C-62)

Project Ranking

97%

Total Estimated Cost: \$530,000



Background

The riser pipe is the functional connection between the SCC and air vacuum air release valves (AVARs) located in the system. The AVARs function to allow volumes of air to be exhausted from or admitted into the pipeline to protect the system from a loss of capacity and to prevent the pipe from collapsing in the event of a break in the pipe. The riser pipe sits directly on top of a man-hole cover and supports a gate valve that sits below the AVAR. Riser pipes exist at all 57 AVAR locations.

Need for Project

Twenty riser sections have been identified to be of questionable integrity because of varying degrees of corrosion and thus pose an operational risk. Replacement and/or relocation of the riser pipes affiliated with the air vacuum air release valves will ensure the functionality of this system component

Description

Replace manhole, riser pipes and the valves in the AVAR structures within designated locations in the system. The riser replacement and relocation project would be performed in several phases with consideration of operational impacts. For efficiency and to minimize cost, phases of this project will be performed concurrently with similar phases of the blow-off project. The project would require retention of engineering and contractor services. Project implementation will occur over time and during low water demand months to reduce the impact of system shutdown.

Regulatory Compliance

This is USBR Category 1 recommendation.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2015-16 (Phase I – Engineering)	\$ 60,000
2016-17 (Phase II – Construction)	\$ 70,000
2017-18 (Phase II – Construction)	\$100,000
2018-19 (Phase II – Construction)	\$100,000
2019-20 (Phase II – Construction)	\$100,000
2020-21 (Phase II – Construction)	\$100,000
Total	\$530,000

South Coast Conduit Air Vacuum Air Release (AVAR) Valve Replacement / Relocation (2012-1-26)

Project Ranking

97%

Total Estimated Cost: \$150,000



Background

Air vacuum air release valves (AVAR) are float operated valves which are common to water delivery systems. The AVAR's function to allow volumes of air to be exhausted from or admitted into the pipeline to protect the system from a loss of capacity and prevent the pipe from collapsing in the event of a break in the pipe. There are twenty-six AVARs on the Lower Reach of the SCC. Of these, twenty have been rehabilitated; the remaining six will be completed by an outside contractor over the next two fiscal years. Replacement of the AVARs is a USBR Category 1 recommendation.

Need for Project

Six remaining AVAR valves pose an operational risk and/or do not meet current required regulatory standards. Because of the location and operational configuration of the remaining six AVARs, this project would be completed by a retained contractor and require preliminary engineering.

Description

Replace and relocate to above ground sites six (6) AVARs in the Lower Reach. Consistent with other AVAR replacements, manhole covers, gate valves, risers, laterals and AVAR valves would be replaced at the same time. Each AVAR valve would be relocated and enclosed above grade. The project would require coordination with impacted MUs during the required shutdown of the SCC. The project would require retention of engineering and contractor services.

Regulatory Compliance

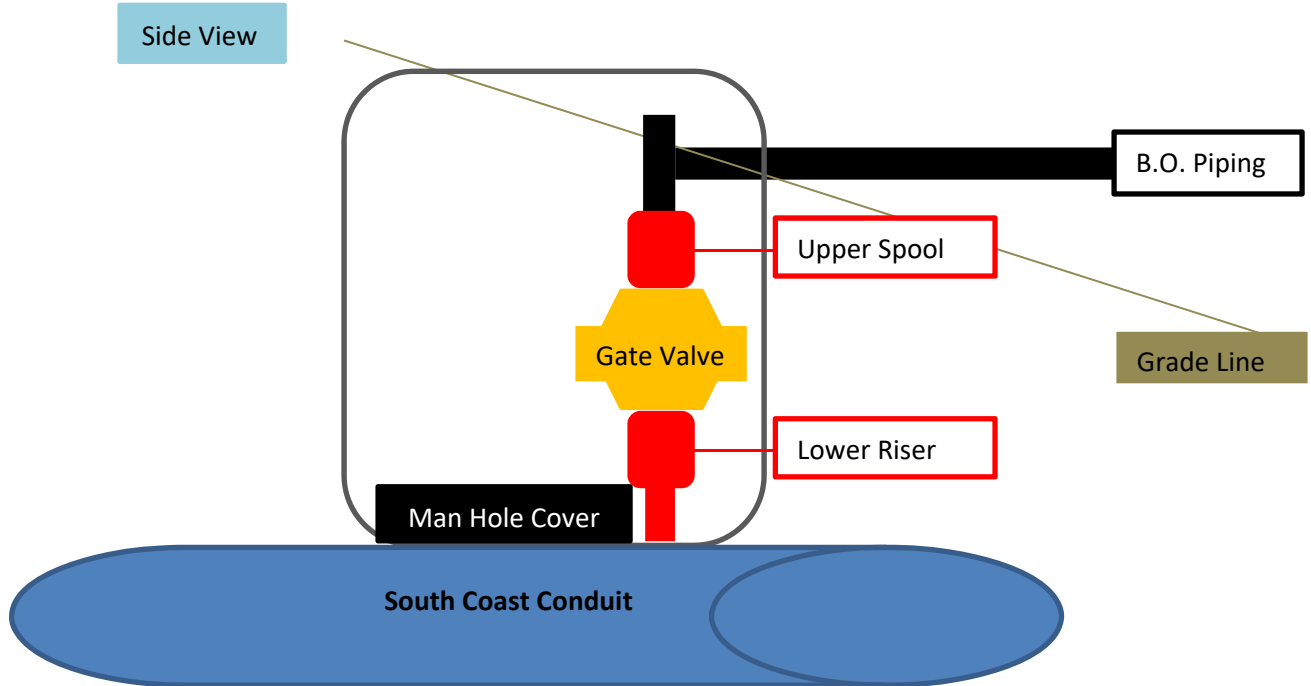
This is USBR Category 1 recommendation.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2015-16 (Phase I – Engineering)	\$ 50,000
2016-17 (Phase II – Construction)	\$100,000
2017-18 (Phase II – Construction)	\$ 0
Total	\$150,000

Structure Housing Equipment: Blow Off



The appurtenant structures involved with the South Coast Conduit system are depicted in the sketch above. These structures are identified as either Lateral structures, Air Vacuum Air Release structures, or Blow-off structures.

Divided into the Upper Reach (from the South Portal to Lauro Dam) and the Lower Reach (from the Cater Treatment Facility to Carpinteria), each structure contains a man hole cover, a lower riser, and upper riser, a gate valve and blow-off piping. The concrete structures containing these components are called vaults and are located above and below ground level on top of the South Coast Conduit (SCC).

The total number of blow-off structures on the SCC is **65**.

The Upper Reach contains **34** blow-off structures and the Lower Reach contains **31** blow-off structures.

The internal components are described as follows:

- **Man Hole Cover** - sits directly on top of the pipe providing direct access inside the SCC.
- **Riser component** - serves as a connection between the Man Hole Cover and the Gate Valve.
- **Blow-Off Valve (Gate Valve)** - functions to dewater the section of pipeline for the purpose of conducting repairs or responding to an emergency.

Blow Off	Total Structure	100% Complete	Need Man Hole	Need Lower Riser	Need Upper Riser	Need Gate Valve
Upper Reach	34	0	1	34	1	1
Lower Reach	31	0	27	31	27	27
Total	65	0	28	65	28	28

**South Coast Conduit Blow-off Riser Pipe Replacement
(2013-1-42)**

Project Ranking

97%

Total Estimated Cost: \$1,000,000



Background

Blow-off structures exist on all low points of a water distribution system. The components included in these structures include man-hole covers, lower riser sections, an upper spool section, a gate valve, and blow-off piping. There are a total of sixty-five blow-off structures in South Coast Conduit system.

Need for Project

The existing blow-off components are of questionable operability because of corrosion. The dependability of these components is necessary to allow the system to be dewatered for maintenance and respond to an emergency break in the pipe. There are twenty-eight manhole covers identified for replacement. Sixty-five lower risers have been identified to be of questionable integrity because of corrosion. Twenty-eight gate valves and upper spools will need to be replaced due to age and fragility. Blow-off piping will be replaced on an as needed basis.

Description

The project consists of replacing the man hole covers, lower risers, gate valves, upper spools, and discharge piping within the Upper and Lower Reaches of the SCC. The project would be completed in conjunction with the AVAR valve replacement and relocation project and coordinated with the affected Member Units during the required system shutdown. Water released during the implementation of this project would require de-chlorination. The project would require retention of engineering and contractor services.

Regulatory Compliance

This is a USBR Category 1 recommendation.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2015-16 (Phase I – Engineering)	\$ 130,000
2016-17 (Phase II – Construction)	\$ 70,000
2017-18 (Phase II – Construction)	\$ 125,000
2018-19 (Phase II – Construction)	\$ 225,000
2019-20 (Phase II – Construction)	\$ 225,000
2020-21 (Phase II – Construction)	\$ 225,000
Total	\$ 1,000,000

**Repair Lateral 3 – Upper Reach
(2013-C-47)**

Project Ranking

96%

Total Estimated Cost: \$120,000



Background

Lateral three is a multi-joint pipe configuration contained in a concrete vault located in the Upper Reach of the system. The vault contains a riser coming through the concrete floor, a meter, a valve, and affiliated piping. Lateral three originally functioned as an operational component of GWD. This lateral no longer operates as an operational component of GWD and currently functions as a blow-off structure.

Need for Project

The riser extending from the South Coast Conduit through the vaults' concrete floor was discovered to be leaking when the lateral was taken out of service. A temporary fix of mortar was placed on the pipe and the floor connection to eliminate leaking into the vault. Because of the fragility of this temporary fix, regular maintenance cannot be performed to the remaining components within the structure.

Description

The vault sits directly on top of the South Coast Conduit. The vault must be removed to access the riser component extending into the vault. Removing the vault will require replacing three sections of the South Coast Conduit. A new blow-off structure will be re-constructed in its place. The repair would require a shutdown of the SCC and coordination with impacted Member Agencies. The project would require retention of an engineering and contractor services.

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2016-17 (Phase I – Engineering)	\$ 20,000
2017-18 (Phase II – Construction)	\$100,000
Total	\$120,000

**Meter Testing and Replacement Project
(2017-C-2)**

Project Ranking

96%

Total Estimated Cost: \$250,000



Background

Cachuma Operation & Maintenance Board (COMB) is responsible for accurate reporting of water accounting on behalf of the Cachuma Project Member Agencies to the U.S. Bureau of Reclamation on a monthly basis. The process of water accounting entails recording data from twenty-five meters located along the conveyance system from the North Portal of Lake Cachuma to the Carpinteria Reservoir. In an effort to identify the accuracy of meters within the system, COMB hired Water System's Optimization, Inc. to conduct a system meter evaluation and water audit. The results of the water audit indicated the necessity of replacing several meters in the system.

Need for Project

To accurately account for water distribution within sections of the system, certain identifiable meters need to be replaced.

Description

This project consist of obtaining a qualified engineer, specializing in determining the appropriate meter type and associated installation requirements given the existing meter's desired function, location in the system and along the conduit, and physical constraints. Once the appropriate type of meter and installation location have been identified, depending upon the complexity, COMB staff will procure and install said meters.

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2017-18 (Phase I)	\$100,000
2018-19 (Phase II)	\$ 50,000
2019-20 (Phase II)	\$ 50,000
2020-21 (Phase II)	\$ 50,000
Total	\$250,000

**Rehabilitate San Antonio Creek Blow-Off
(2012-2-35)**

Project Ranking

95%

Total Estimated Cost: \$45,000



Background

The San Antonio Creek blow-off structure was constructed as an addition to the Cachuma Project facilities in 1958. It was constructed to provide a method for water release and draining of Lauro Reservoir during an Emergency Scenario. The structure's sole purpose is to respond to dam safety considerations.

Need for Project

The existing structure includes a 16-inch and a 12-inch gate valve that are both frozen in place and inoperable because of age and corrosion. The inoperable condition of the valves prevents regular maintenance. The two valves serve as a lifeline control response to an emergency that would require COMB to drain or reduce the elevation at Lauro Reservoir in response to dam safety considerations.

Description

San Antonio Creek blow-off structure is twenty-five feet deep and a quarter mile from the access road which crosses San Antonio Creek, making access difficult and potentially complicated. The 16 and 12 inch valves would be removed and replaced. The project will require a shutdown of the South Coast Conduit.

Phase I (Fiscal Year 15-16): Engineering and Design

Phase II (Fiscal Year 17-18): Construction

Regulatory Compliance

The structure is located in a county park and may require environmental review because of access restrictions. This project has been identified by the USBR as a Category 2 recommendation.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2015-16 (Phase I)	\$ 10,000
2016-17	\$ 0
2017-18 (Phase II)	\$ 35,000
Total	\$ 45,000

North Portal Intake Tower Seismic Analysis & Conditions Assessment (2016-C-1)

Project Ranking

94%

Total Estimated Cost: \$100,000



Background

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

Need for Project

The North Portal Intake Tower was constructed by the Bureau of Reclamation in the 1950's, at which time, the standards for structural design requirements were not as stringent as today's compliance requirements and, in fact, were largely nonexistent. Structural elements of the intake structure would be examined to determine the general reliability of the tower, recommendations for upgrades and refurbishments, if needed.

Description

This initial phase of the project consists of acquiring the consulting engineering services of a qualified structural engineering firm to perform a Seismic Reliability Analysis and Physical Condition Assessment of the Lake Cachuma Intake Tower located at the North Portal of the Tecolote Tunnel. It shall include a report of all findings and propose recommendations for structure rehabilitation to increase and/or ensure continued reliability of the structure in the occurrence of a large seismic event.

Phase I (Fiscal Year 17-18): Assessment; Engineering and Design

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2017-18 (Phase I)	\$100,000
Total	\$100,000

**San Jose Creek – South Coast Conduit Crossing
(2016-C-2)**

Project Ranking

93%

Total Estimated Cost: \$1,480,000



Background

The South Coast Conduit crosses San Jose Creek at approximately station 394+70. During routine maintenance of the nearby blow-off structure, a section of the conduit was discovered to be exposed within the western bank of the creek bed. After further review of original profiles, it has been determined that the original cover on the pipeline at that location was over 20' of material. Over time, the stream has eroded the material at that location and exposed the pipeline.

Need for Project

The exposed portion of the South Coast Conduit is vulnerable to pipeline failure resulting from structural damage, corrosion, and further erosion over the pipeline. This weakness poses a significant risk of failure and the associated loss of the ability to deliver water to Lauro Reservoir, which will ultimately serve the cities of Santa Barbara, Montecito, and Carpinteria.

Description

Procurement of consulting engineering services will be required in order to conduct a full site evaluation and develop the resulting, appropriate plan, given the current conditions. With a completed design, COMB will obtain the services of a qualified contractor per the bid process for plan implementation. The design shall be devoted in detail to mitigating the effects of all necessary system shutdowns and flow interruptions.

Phase I (Fiscal Year 17-18): Engineering and Design

Phase II (Fiscal Year 18-19): Construction / Remediation

Regulatory Compliance

This project requires full environmental review and compliance.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2017-18 (Phase I)	\$ 60,000
2018-19 (Phase II)	\$1,420,000
Total	\$1,480,000

**North Portal Slope Stabilization
(2014-C-58)**

Project Ranking

90%

Total Estimated Cost: \$40,000



Background

The Lake Cachuma Intake Tower is accessed by a paved road accessed from State Highway 154. During 2002, staff expanded the road by encroaching into the hillside in reaction to erosion and sliding on the outside section of the road. Since the initial work in 2002, destabilization of the hillside has continued making portions of the road potentially unsafe.

Need for Project

Ongoing regular use of the road is necessary to access the North Portal area. Subsequent to 2002, additional interim methods of stabilization on the road had been implemented which produced a short term benefit. Since that initial work during 2002, the existing lake level has provided a visual indication the slope continues to suffer from significant stability issues.

Description

Engineering services would be retained to conduct a Geotechnical Study/ Design, to identify and design a plan to stabilize the slope and ensure road protection and access.

Phase I (Fiscal Year 2016-17): Engineering

Phase II (Fiscal Year 2017-18): Slope Stabilization and remediation based on design plan completed in Phase I.

Regulatory Compliance

This project requires USBR environmental review.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2016-17 (Phase I)	\$ 10,000
2017-18 (Phase II)	\$ 30,000
Total	\$ 40,000

**North Portal Jet Flow Control Valve Replacement
(2013-C-1)**

Project Ranking

90%

Total Estimated Cost: \$300,000



Background

Located at the base of the Tecolote Tunnel, the Jet Flow Control Valve is the primary control for flow of water from Lake Cachuma into the South Coast Conduit. The valve is located within the red piping component as pictured above. It is operated through the SCADA system. The adjacent gate valve (black) can manually be used as an alternate method to control flow through the tunnel. The Jet Flow Control valve was replaced in 1990 and has a useful life of approximately thirty years. Internal replacement components of the valve were approved in the FY 2014-15 budget and have been purchased.

Need for Project

Due to the uncertainty of useful life, COMB will purchase a complete new valve. The new replacement valve would be installed during a planned shutdown and the current valve would be rebuilt with new components and kept on site to be used as a redundant valve in case of failure.

Description

This project consists of designs and specs to manufacture a new valve body which would be rebuilt using previously purchased internal components. Once the valve was ready for installation, a shutdown using the manual gate valve would occur. The current valve would be removed from service and the new valve would be lowered by crane into the lower gallery of the North Portal through the elevator shaft for installation.

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2018-19 (Design and Installation)	\$300,000
Total	\$300,000

**Mission Creek – South Coast Conduit Crossing
(2013-C-56)****Project Ranking**

90%

Total Estimated Cost: \$2,600,000**Background**

The South Coast Conduit (SCC) crosses Mission Creek at approximate pipeline Station 74+00, 25 feet downstream of the County road Highway 192 Bridge. The SCC suffered damage in the 1970s when a large boulder tumbled on top of the pipe creating a hole in the pipe. Through an emergency retrofit project, a concrete cap was placed over the pipeline at the current flow line to prevent channel bed scour beneath the bridge footings and the SCC. The concrete cap acts as a grade control structure and is now undermined due to stream scour on the downstream side of the pipeline and concrete apron. The exposed pipe is subject to further damage from boulder impacts during stormflow events as well as material deterioration from exposure to oxygen and water. Although temporary repairs to the crossing were completed in Fiscal Year 2015-16, a more permanent solution will be necessary in the near future. As part of the U.S. Bureau of Reclamation (USBR) Phase 2 Reliability Study for the SCC conducted in 2006 and a subsequent site inspection during 2014, this site was identified as a priority due to the potential for failure of the SCC.

The existing concrete apron is intended to protect the pipeline and the Highway 192 Bridge footings but has resulted in a barrier to migrating juvenile and adult endangered southern steelhead (*Oncorhynchus mykiss*, *O. mykiss*) within the creek. Mission Creek has been identified as a Core 1 watershed for steelhead recovery by the National Marine Fisheries Service (NMFS) in their Southern California Steelhead Recovery Plan (NMFS, 2012). As a result, this project will be required to meet fish passage considerations and therefore constructed in conjunction with a fish passage project. The City of Santa Barbara has now completed three fish passage projects on Mission Creek downstream of the Hwy 192 Bridge. The subject project is the next significant fish passage impediment upstream. Questa Engineering was contracted by the City of Santa Barbara to evaluate fish passage options and provided a report in 2008. Several design workshops have been held since then with the regulatory agencies and a riffle and step-pool sequence has been determined to be the preferred alternative (Questa Engineering, 2012); design specifics will depend on the horizontal and vertical placement of the SCC below the streambed.

Need for Project

The SCC at Mission Creek is the primary water supply for the cities of Carpinteria, Montecito and a large portion of Santa Barbara. The vulnerability of the pipeline to failure resulting from further structural damage and/or corrosion poses an operational risk. The project would remove a section of the SCC and construct a new section encased in concrete at a lower elevation well below the streambed to protect it from damage by scour. At the same time, the concrete apron and channel downstream would be altered to provide fish passage while protecting the Highway 192 Bridge footings. Project designs would be reviewed and approved by the City of Santa Barbara, County of Santa Barbara, NMFS and California Department of Fish and Wildlife to meet road, pipe and fish passage design standards.

Description

COMB retained engineering services to conduct an evaluation of the site and develop and implement a temporary repair. Over the next few years, a permanent solution will be designed, reviewed and approved by local, state and federal regulatory agencies. Once an acceptable design has been developed, COMB would then determine funding options for construction of the project.

Phase I (Fiscal Year 2015-16): Temporary Repair

Phase II (Fiscal Years 2016-17 & 2018-19): Permanent Solution – Engineering and Design

Phase III (Fiscal Year 2019-20): Planning, Grant Writing, etc.

Phase IV (Fiscal Year 2020-21): Construction

Regulatory Compliance

EIR/EIS and full environmental review and compliance will be a required project component.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2015-16 (Phase I)	\$ 50,000
2016-17 (Phase II)	\$ 50,000
2017-18	\$ 0
2018-19 (Phase II – cont.)	\$ 50,000
2019-20 (Phase III)	\$ 400,000
2020-21 (Phase IV)	\$2,100,000
Total	\$2,650,000

References

“Phase 2 Reliability Study for South Coast Conduit Upper Reach Tecolote Tunnel to Corona Del Mar Water Treatment Plant and Carpinteria Reach South Coast Conduit Pump Station to Ortega Reservoir” Boyle April 2008 Page 100 and Table 8-1.

September 2006 Boyle “Phase 2 Reliability Study for South Coast Conduit Upper Reach Tecolote Tunnel to Corona Del Mar Water Treatment Plant and Carpinteria Reach South Coast Conduit Booster Pump Station to Ortega Reservoir” Page 100 and Table 8-1.

NMFS, 2012. Final Southern California Steelhead Recovery Plan, National Marine Fisheries Service (NMFS-NOAA), Long Beach, CA.

Questa Engineering, 2008. Highway 192 at Mission Creek South Coast Conduit Rehabilitation and Fish Passage Improvement Project. Questa Engineering Corporation. Prepared for the City of Santa Barbara, November.

Questa Engineering, 2012. Highway 192 at Mission Creek South Coast Conduit Rehabilitation and Fish Passage Improvement Project Design Review. Prepared for the Cachuma Operation and Maintenance Board.

**Upper Reach Reliability Project – Phase II
(2017-C-1)**

Project Ranking

90%

Total Estimated Cost: \$8,000,000



Background

The Second Barrel Pipeline Project was designed to provide a redundant pipeline from the Tecolote Tunnel's South Portal to the Corona del Mar Filtration Treatment Plant. Said second pipeline provides increased operational flexibility and reliability, as well as additional conveyance capacity to help meet peak system demands. Completed in 2012, Phase I of the Second Barrel Project installed a new 48" diameter pipeline from the South Portal of the Tecolote Tunnel to the Glen Annie Turnout structure. Phase II will complete the project, installing approximately 10,000 additional linear feet of 48" diameter welded steel pipe from the Phase I endpoint at the Glen Annie Turnout structure, through to the Corona del Mar Filtration Treatment Plant.

Need for Project

The completion of Phase II is essential in order to benefit from the project as it was originally designed. This final phase connects pipeline installed during Phase I all the way to the project's initially designated endpoint, Corona del Mar Filtration Plant.

Description

Engineering services would be retained to conduct a full site evaluation and perform a geotechnical study along the proposed length of new pipeline, and to design the project accordingly. The construction phase would implement the repair per the engineering design, recommendations and specifications.

Regulatory Compliance

This project requires full environmental review and compliance.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2018-19 (Engineering Evaluation & Study)	\$ 200,000
2019-20 (Planning & Permitting)	\$ 300,000
2020-21 (Construction)	\$3,500,000
2021-22 (Construction)	\$4,000,000
Total	\$8,000,000

**Glen Annie Reservoir Safety of Dams Rehabilitation Project
(2011-C-57)****Project Ranking**

83%

Total Estimated Cost: \$33,500,000*Federal share: \$28,475,000**MU Share: \$5,025,000**(SOD Act Repayment over time)***Background**

Glen Anne is one of four regulating reservoirs on the Cachuma Project facilities. Glen Anne Reservoir had an initial storage capacity of 500AF. Due to seismic stability requirements and risk of failure potentially causing catastrophic damage downstream, the maximum capacity was limited to 375AF in 1988. In 2002 it was limited again to 175 AF maximum capacity. Glen Anne Reservoir is no longer in service, but COMB continues regular maintenance and inspections as required by the USBR.

Need for Project

The ability to store water in all system reservoirs is critical to water delivery during a shutdown of the Tecolote Tunnel. Further, Glen Anne is important as a balancing reservoir to enable work on other system reservoirs and appurtenances to the SCC. The inoperability of Glen Anne impacts all Member Agencies.

Raw water storage in the Upper Reach is critical to allow the Tecolote Tunnel to shut down for repairs while allowing Goleta Water District to continue to deliver water to their customers. This can be accomplished by upgrading Glen Anne Reservoir and Dam. This project will benefit all of the Member Agencies on the South Coast, by providing additional storage capacity, increase efficiency and reliability of COMB facilities, reduce the complexity of shut-downs, simplify scheduled repairs of the Tecolote Tunnel and aid in fire protection and flood control.

Description

Dam seismic safety and other operational problems that exist because of deterioration would be addressed. Adjacent pumps and delivery system piping will be restored to operability. Remediation components will likely include removing the silt to allow operation at designed capacity and replacement of deteriorated 12 inch thick asphaltic concrete liner.

Seismic retrofit will like include installation of shear key and berm installed down to the bedrock to resolve the existing potential for liquefaction.

Phase I (Fiscal Year 18-19): Investigation of project phasing and potential grant funding

Phase II (Fiscal Year 19-20): Initial studies and preliminary Engineering

Phase III (Fiscal Year 20-21): Engineering

Phase IV (Fiscal Year 21-22): Construction

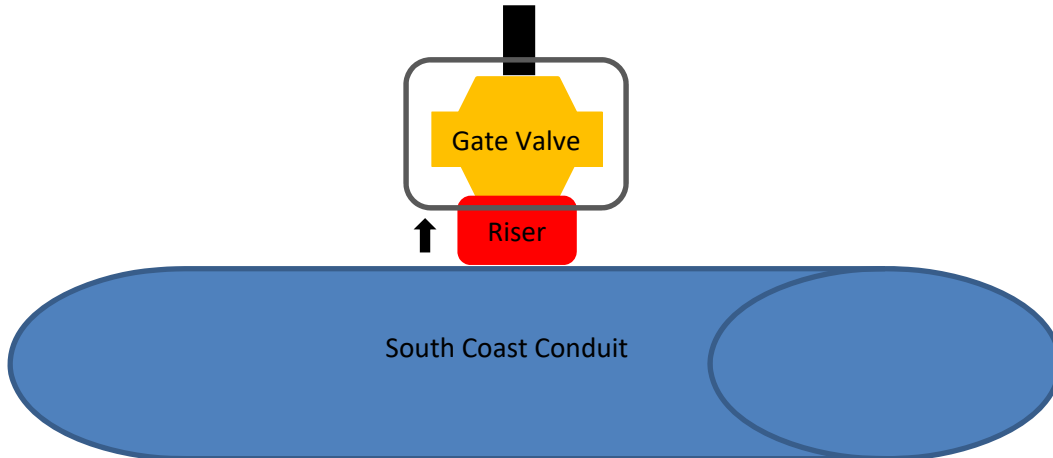
Regulatory Compliance

Environmental Review performed by USBR

Budget & Schedule	Internal Staff Estimate
Fiscal Year	Cost
2018-19 (Phase I)	\$ 0
2019-20 (Phase II)	\$ 0
2020-21 (Phase III)	\$ 0
2021-22 (Phase IV)	\$ 0
Total	\$33,500,000 (15% SOD Act repayment)

Structure Housing Equipment: Lateral

Overview



The appurtenant structures involved with the South Coast Conduit system are depicted in the sketch above. These structures are identified as either Lateral structures, Air Vacuum Air Release structures, or Blow-off structures.

Divided into the Upper Reach (from the South Portal to Lauro Dam) and the Lower Reach (from the Cater Treatment Facility to Carpinteria), each structure contains a man hole cover, a lower riser, and upper riser, a gate valve and blow-off piping. The concrete structures containing these components are called vaults and are located above and below ground level on top of the South Coast Conduit (SCC).

The total number of lateral structures on the SCC is **65**.

The Upper Reach contains **21** lateral structures and the Lower Reach contains **44** lateral structures.

The internal components are described as follows:

- **Riser component** - serves as a connection between the Man Hole Cover and the Gate Valve.
- **Gate Valve** - under normal operation this valve is open to allow water flow to adjacent Member Unit delivery systems.

Lateral	Total Structure	100% Complete	Active	Non-Active	Need Riser	Need Gate Valve
Upper Reach	21	1	1	20	20	0
Lower Reach	44	1	43	1	43	43
Total	65	2	44	21	63	43

Rehabilitate South Coast Conduit Lower Reach Lateral Structures (2015-C-3)

Project Ranking

77%

Total Estimated Cost: \$200,000



Background

There are forty-four lateral connections housed in concrete cylinder structures on the lower reach of the South Coast Conduit. The function of these connections is to provide water to sections of the Montecito Water District and Carpinteria Valley Water District. Each connection contains a gate valve, a check valve and an air vent component.

Need for Project

Thirty-five of the existing lateral appurtenances pose an operational risk due to age, corrosion, and unreliable valve operating conditions. The dependability of these valves is necessary to provide reliable water service to customers served in sections of the Montecito and Carpinteria Water District Boundary areas.

Description

This project would replace corroded and inoperable valves, air vents, and check valves on active lateral connections. The project will require shutdowns for the specified turnout distribution supply areas and would be coordinated with the impacted Member Units. The project would require retention of engineering and contractor services; and, due to each site's differing conditions, engineering would be required for each individual structure.

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2018-19	\$ 50,000
2019-20	\$ 50,000
2020-21	\$ 50,000
2021-22	\$ 50,000
Total	\$200,000

Sheffield Tunnel Inspection and Evaluation of South Coast Conduit Components (2007-2-33)

Project Ranking

74%

Total Estimated Cost: \$400,000



Background

The Sheffield Tunnel is a concrete tunnel housing the 36" South Coast Conduit (SCC) that extends 6,100 feet through rising geology on the south side of Foothill Road. Within the tunnel, sections of concrete pipe are connected and joined with mortar joints and pipe supports to maintain the integrity of the pipe collar connections.

Need for Project

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

Description

Retain outside engineering to conduct an evaluation of the identified deterioration to determine the structural integrity and reliability of the connecting and support structure of Sheffield Tunnel. Engineering evaluation will include recommended repairs and determine how to eliminate areas of heavy seepage. It is possible the engineering evaluation could find a lower cost remedy to that recommended by USBR. Upon completion of the evaluation retain a qualified contractor to repair the deteriorated mortar joints and pipe supports at locations identified.

Phase I (Fiscal Year 18-19): Evaluation of Tunnel Deterioration

Phase II (Fiscal Year 19-20): Remediation Design (based on the evaluation)

Regulatory Compliance

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

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2018-19	\$100,000
2019-20	\$300,000
Total	\$400,000

**South Portal Slope Stabilization
(2014-C-59)**

Project Ranking
74%

Total Estimated Cost: \$800,000



Background

The Modified Upper Reach Reliability Project (MURRP) is sited at the base of Glen Anne Canyon, which has a history of landslides because of unstable terrain. The MURRP contains open vents that are vulnerable to landslides. During 1995 a slide engulfed the old South Portal Structure. The hillside was excavated to create additional space for the new South Portal Configuration on the MURRP. Slope stabilization was not addressed as a component of the project. The site has been temporarily protected with concrete road barriers (K-rails), but a more adequate and permanent solution remains necessary.

Need for Project

Existing slope instability has the potential to cover the South Portal Configuration on the Modified Upper Reach Reliability Project, adversely affecting access and causing soil infiltration into the SCC. Multiple professionals have visited the site and concur with the risk identified.

Description

Phase I (Fiscal Year 2018-19): Geotechnical Study/Engineering Design (identify the most economic method to stabilize the slope and protect the asset).

Phase II (Fiscal Year 2019-20): Slope Stabilization and remediation (based on design plan completed in Phase I).

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2018-19 (Phase I)	\$ 50,000
2019-20 (Phase II)	\$750,000
Total	\$800,000

Inspect Interior of:

- Ortega Outlet Pipe (2013-2-20)
- Sheffield Tunnel Pipe (2001-2-28)
- Lauro Dam Pipe (2001-2-10)
- Carpinteria Control Station (2013-2-39)

Project Ranking

71%

Total Estimated Cost: \$142,000



Background

Under the direction of USBR, the South Coast Conduit (SCC) was completed in the mid-1950s. During its service life, the archives indicate, aside from normal wear and tear, the system appurtenances have exceeded designed life. The USBR requires COMB to perform interior inspections on facilities every six years to determine physical integrity.

Need for Project

Because certain system components and appurtenances have exceeded projected useful life, an evaluation should be conducted to ensure system integrity and identify potential performance weaknesses. This inventory and examination will serve as a basis for future IIP development.

Description

Contract services would be retained to perform the examination and document current condition and issues requiring attention. It is anticipated entry into the conduit would likely occur through AVAR locations, which would allow the team to move from high points in the line toward the lower spots where blow-off structures exist. The conduit would need to be ventilated safely to ensure safe ingress/egress. This examination would require MU coordinated shutdowns.

The inspection will focus on locations subject to corrosion and wear beginning with the interiors of outlet piping from all reservoirs leading to the control building. Because of the unique structural characteristics of Ortega Reservoir, COMB would contract with an engineering firm with specialized capabilities including structural analysis, video inspections (piping/tunnel), etc. Each inspection would require the contractor to prepare an analysis in a format designed by COMB and coordinated with USBR. Once complete, COMB would submit the plans to USBR for review and approval.

Regulatory Compliance

USBR Category 2 recommendation and required to meet SOP requirements.

Budget & Schedule	Internal Staff Estimate
Fiscal Year 2018-19	Cost
Ortega Outlet Pipe	\$ 36,000
Sheffield Tunnel Pipe	\$ 20,000
Lauro Dam Pipe	\$ 12,000
Carpinteria Control Station	\$ 74,000
Total	\$142,000

**Install Second Sump Pump in the Lower Chamber of the North Portal
(2012-2-36)**

Project Ranking
69%

Total Estimated Cost: \$35,000



Background

The bottom of the North Portal chamber contains a sump pump to mitigate the impact of water intrusion into the elevator shaft and upper and lower gate chambers. The sump pump is sited below grade at the bottom of the chamber and effectively removes standing water, acting as a protection against corrosion for all below ground equipment.

Need for Project

Installation of a second sump pump would provide redundancy to the existing sump pump. If the first sump pump fails or is overcome by excess water, the second sump pump would ensure water is pumped out of the chamber.

Description

Contracted electrical services would be retained to install and integrate the new pump into the existing pump control system.

Regulatory Compliance

This is a USBR Category 2 recommendation.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2018-19	\$35,000
Total	\$35,000

**Rebuild the Inflow Rip Rap at Lauro Reservoir
(2013-C-15)**

Project Ranking
67%

Total Estimated Cost: \$200,000



Background

The inflow into Lauro Reservoir from the South Coast Conduit commences with water flow on a channel composed of rip rap rock installed to slow and aerate the inflow of water and prevent erosion to reservoir side walls. The rip rap structure is composed of rock and concrete and is designed to prevent scour or erosion of the adjacent side walls.

Need for Project

The lower portion of the rip rap apron has been undermined across the base of the reservoir. The rip rap apron measures approximately twenty-five feet in length and is in need of repair. Without repair of the apron, water flow will erode the embankment and the base of the channel will become unable to support the rip rap structure. Loss of the rip rap would make the inflow structure unable to fulfill its required function.

Description

A structural engineering firm would conduct an evaluation to determine an appropriate repair to maintain the essential support and integrity of the rip rap channel. The reservoir would need to be lowered to accommodate inspections and repairs.

Phase I (Fiscal Year 2018-19): Engineering and Construction

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2018-19	\$200,000
Total	\$200,000

**Tecolote Tunnel Concrete Deterioration Investigation
(2005-2-55)**

Project Ranking

52%

Total Estimated Cost: \$100,000



Background

The Tecolote Tunnel was completed in 1956 to divert water from Lake Cachuma to the South Coast Conduit. The tunnel provides water delivery through the mountain to the South Portal. The tunnel structure consists of a modified circular horse-shoe shaped cross section constructed of steel encased in 12 inches of concrete and operates in open channel flow that is approximately 7' inside and is 6.4 miles long with a gradual shallow slope to enable gravity feed. The only ingress and egress are at the North Portal and South Portal. During an inspection by the USBR in 2012, deterioration was discovered due to long-term exposure to hydrogen sulfide.

Need for Project

Hydrogen sulfide has caused some deterioration of the concrete lining of the tunnel. In areas, the interior concrete surface has peeled in sheets approximately 3/8 of an inch thick and fallen into the invert, creating sediment. The majority of the tunnel is in acceptable condition. However, a few locations exhibit small areas where leaching could affect the structural integrity of the concrete. Review is necessary.

Description

The Tecolote Tunnel is a 6.4 mile long tunnel which is considered a “confined space” location. The evaluation will require an engineer to identify the locations and extent of the concrete deterioration, severity of damage within the Tecolote Tunnel and recommend appropriate remediation.

Regulatory Compliance

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

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2019-20	\$100,000
Total	\$100,000

**Clean Clogged Weep Holes in Tecolote Tunnel
(2005-2-31)**

(To be performed in conjunction with Tecolote Tunnel Investigation Project)

Project Ranking

52%

Total Estimated Cost: \$200,000



Background

Included in the construction of the Tecolote Tunnel were a series of “weep holes” that allow ground water to flow into the tunnel. The weep holes serve two purposes: 1) to relieve the ground water pressure on the outside of the tunnel structure and 2) provide for the importation of usable ground water into the tunnel.

Need for Project

There are numerous weep holes within the Tecolote Tunnel that have been subjected to mineral accumulation creating deposits. Hydrogen sulfide has contributed to corrosion of the concrete structure adjacent to the weep holes. The mineral accumulation and corrosion have eliminated or reduced the ability of the weep holes to function, thereby potentially affecting the stability of the structure. The weep holes need to be cleaned to allow proper water drainage into the tunnel to protect the Tunnel structure.

Description

The project would be conducted concurrent with the concrete lining repair and will require a shutdown of the tunnel and all safety precautions necessary for tunnel access because of hydrogen sulfide exposure and confined space issues.

Regulatory Compliance

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

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2019-20	\$200,000
Total	\$200,000

Investigate Structural Requirements of the Steel Collar between Outlet Works and 48-inch Intake Pipe at Lauro Tunnel (2013-2-41)

Project Ranking
49%

Total Estimated Cost: \$30,000



Background

The intake piping of the Lauro Reservoir outlet works intake structure includes a steel collar connection between the intake structure and intake pipe.

The intake component was replaced during 1981 by added a steel pipe that extends through the outlet works and through the top of the original concrete intake structure. A ¾ inch thick steel circular collar was installed on top of the existing intake structure to cover the opening between the intake structure and vertical pipe for either protection from debris intrusion, structural support or both. It is unknown if the steel collar is attached to the vertical steel pipe to connect the two components. The 2013 dive report, prepared by USBR, states the intake structure is in satisfactory condition with the exception of the steel collar. The Bureau was silent on the purpose of the collar and has been unable to verify the purpose the collar serves over and above simply providing a sealed connection between the two structures.

Need for Project

The collar has deteriorated because of corrosion and poses an operational risk for both the protection against outside intrusion of elements penetrating through the opening or potentially structural support.

Description

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

Regulatory Compliance

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

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2019-20	\$30,000
Total	\$30,000

**Waterproof Gate Shaft in the North Portal
(1999-2-53)**

Project Ranking
45%

Total Estimated Cost: \$70,000



Background

The North Portal Elevator Shaft was constructed in the 1950s. The shaft extends approximately 125 feet below the control house. Water intrudes into the elevator shaft at construction joints and through cracks in the concrete structure. This moisture creates a corrosive environment for electrical and mechanical equipment.

Need for Project

The project anticipates either eliminating or reducing seepage into the elevator shaft and will protect the asset by extending its useful life and reducing maintenance costs.

Description

The work will require the retention of a contractor. Discussions with contractors have concluded the grout in all seams would be removed and a water stop polymer will be injected to eliminate water intrusion in the leaking seams and cracks. The top of the elevator car will be used as a work platform, and will require a certified elevator operator on site to move the work platform during the repair. Per contractor discussions, the work requires seepage to be visible to enable directing the polymer injection to the appropriate location in the shaft. Therefore, this work would be most successfully accomplished once the water table has increased in elevation.

Regulatory Compliance

This is a USBR Category 2 Recommendation.

Budget & Schedule

Contractor Estimate

Fiscal Year	Cost
2019-20	\$70,000
Total	\$70,000

Locate Discharge Pipe; Outfalls at Four Blow-off Stations (2013-2-43)

Project Ranking

39%

Total Estimated Cost: \$40,000



Background

Blow-off valves exist on all low points of a water system. Along the South Coast Conduit (SCC), these valves function to dewater the SCC should it be necessary to shut down a section to perform essential work. Certain valves and associated piping are over fifty years in age and in poor condition. The blow-off valve is located within a concrete structure and the discharge pipe extends to the outside from the vault.

Need for Project

Staff has been unable to locate point of discharge on four blow-off stations. Therefore, it appears the discharge piping has been buried in silt for an extended period of time and has no screening to prevent the migration of storm water and/or animals into the discharge pipe and subsequently into the structure.

Description

This project would locate and replace inoperable blow-off valve discharge piping and install flap valves on the discharge pipe within the identified Lower Reach blow-off stations. It is anticipated that the proposed work will be conducted by COMB Operations staff.

Regulatory Compliance

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

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2019-20	\$40,000
Total	\$40,000

**Lauro Office Building Replacement
(2014-C-59)**

Project Ranking

This project is considered part of regular maintenance and will not be ranked along with the other Infrastructure Improvement Plan Projects. The project is identified in the Infrastructure Improvement Plan because it exceeds \$25,000.

Total Estimated Cost: \$20,000



Background

COMB Administration, Fisheries, and Reception modular offices are aging and in various stages of deterioration. The Administration office is a 1979 model (36 years old), purchased in 1993; the Fishery office is a 1997 model (18 years old), purchased in 1999; and the Reception office is a 2002 model (13 years old), purchased used in 2002. The immediate issue is the Administrative office, which has uncorrectable structural problems attributable to roof leaks.

Initial information indicates the cost of a used/refurbished modular unit is approximately \$50 per square foot for a shell that would need modifications. New modular unit costs vary depending on design, ranging from \$75 to \$150 per square foot. Per square foot costs do not include the cost of delivery and setup cost that range from \$12,000 to \$19,000 for each 40 foot unit. Existing units do not have a resale value because of noncompliance with current state building codes and therefore must be demolished. The demolition cost of existing buildings is approximately \$9,000 for each 12 foot section of the 40 foot unit. Demolition cost will be a separate manufacturer quote.

Need for Project

The current modular office buildings are in various stages of deterioration.

Description

Purchase one to three new modular office buildings.

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2017-18	\$ 20,000
Total	\$ 20,000

**Carpinteria Reservoir Security Fencing
(2014-C-70)**

Project Ranking

This project is considered part of regular maintenance and is not ranked with the other Infrastructure Improvement Plan Projects; Project exceeds \$25,000 and therefore identified in the Infrastructure Improvement Plan.

Total Estimated Cost: \$41,500



Background

Carpinteria Reservoir is surrounded by security fencing used to protect the reservoir from unauthorized access. The chain-link fence is four-foot high with additional height accomplished using four strands of barb wire.

Need for Project

Fencing has deteriorated due to age and weather. The fencing needs to be bought up to a standard to avoid public intrusion. The USBR determined the appropriate fencing needed around drinking water reservoirs is six-foot high chain-link fencing topped with V-shaped barb wire fencing.

Description

Replacement of the fence would be performed by a contractor. The existing fence would be replaced with a 6-foot high V-shaped barb wire fencing consistent with USBR security requirements.

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2019-20	\$ 41,500
Total	\$ 41,500

Supervisory Control and Data Acquisition (SCADA) Upgrades (2014-C-61)

Project Ranking

This project is considered part of regular maintenance and is not ranked with the other Infrastructure Improvement Plan Projects. This is an ongoing project.

Total Estimated Cost: \$90,000



Background

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

1. Allows the remote adjustment of valves which control the flow of water based on demand.
2. Collects and enables the retrieval of historical data at COMB Offices or via remote computer. Information includes flows, reservoir elevations, alarms, communication, turbidity, pH, temperature, and valve positions.
3. Provides phone alerts to COMB Operations staff to enable remote corrective action 24/7.
4. Increases the efficiency of Operations staff by avoiding onsite corrective action and enhances system reliability.

Installation of the COMB Supervisory Control and Data Acquisition (SCADA) system began in 2003. Budgetary constraints have deferred upgrades over the ensuing 10-years. Substantial information is generated through this system that is used internally by COMB and requested externally by MUs and other agencies. The FY 2014-15 budget approved Phase 1 of the system upgrade in the amount of \$22,000 to install a historian server backup, install a new cellular communication system, and update the PLC programming software.

Need for Project

Remaining system upgrades are currently under review by an engineering consultant. Therefore, defined project needs are not currently available. Identified components of system software are obsolete and no longer supported by the manufacturer and necessitate replacement.

Description

The current SCADA system is under evaluation by a consulting engineer to determine the upgrades necessary to meet minimum operational and information requirements. Phases two through ten would upgrade obsolete, critical Programmable Logic Controllers (PLC) in the field and install wireless technology communication devices to enable reliable and secure access. This approach may change based on evaluation from the engineering consultant. It is anticipated that the purchase, programming and installation of these devices would be phased over time. The cost per PLC could reach \$50k. COMB operates nine PLCs.

Phase I (Fiscal Year 14-15): Install historian server backup and new cellular communication system; update PLC programming software.

Phases II – IV (FYs 2016-2018): Update PLC Units / wireless communication devices in the field

Regulatory Compliance

N/A

Budget & Schedule	Internal Staff Estimate
Fiscal Year	Cost
2014-15 (Phase I)	\$ 25,000
2015-16 (Phase II)	\$ 25,000
2016-17 (Phase III)	\$ 20,000
2017-18 (Phase IV)	\$ 20,000
Total	\$ 90,000

Right Of Way Identification Program (2014-C-72)

Project Ranking

This project is considered part of regular maintenance and is not ranked with the other Infrastructure Improvement Plan Projects: This project is identified in the Infrastructure Improvement Plan because it exceeds \$25,000. This project is a five-year project identified during Fiscal Year 2013-14 budget preparation.

Estimated Cost: \$40,000

Background

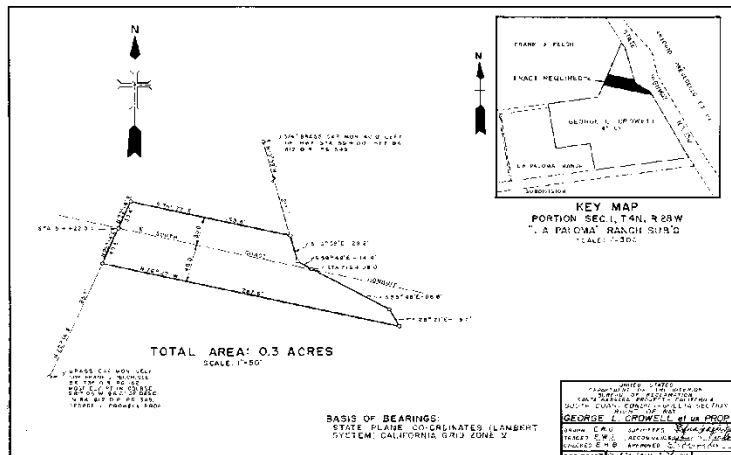
Use of the USBR Easements by someone other than COMB is referred to as an encroachment. Previous studies have noted that encroachment into the South Coast Conduit (SCC) pipeline easement is widespread. COMB regularly finds unpermitted encroachments within the Cachuma Project Easement. These encroachments are found utilizing USA Dig-Alerts along with regular visual inspections of the Cachuma Project easement. COMB also reviews planning minutes produced within Santa Barbara County each month to determine if a proposed development is within the Cachuma Project Easement. The 2013-14 and 2014-15 budgets included funds for this program. The program, when complete, will provide specific land use information for all sections of the USBR easement. This will include specific land owner information to enable communication on land use restrictions and permit requirements. Additionally, the program will enable the timely response to County permit processes.

Need for Project

Unpermitted and unknown encroachments on the SCC easement potentially affect the structural integrity of the South Coast Conduit. Therefore, it is important that all encroachments be documented. This project will input existing and future encroachment information into an electronic inventory of encroachments on the easement. This inventory will be utilized for communication and potential site remediation activity involving existing landowners and evaluation of proposed encroachments to the easement through the permit process. This data will be Geographical Information System (GIS) based and enable a more efficient and cost effective response to regular maintenance, testing, and monitoring activities. This GIS based system will largely replace time consuming staff site visits to review projects proposed involving the easement.

Description

The Right of Way Project (ROW) inventory will centralize information electronically to facilitate landowner communication regarding pending right-of-way work, provide communication with Santa Barbara permitting agencies, and enable COMB staff response to right-of-way disruptions and issues efficiently by utilizing the GIS inventory. Specific tasks of the project include identifying, locating, and labeling the pipeline through field mapping in GIS and surveying. Sequentially, as data is developed, landowners will be notified of property easements and of COMB's South Coast Conduit responsibilities. The project anticipates placing up to 400 pipeline markers at property lines and alignment changes along the pipeline. Concurrently, COMB will enhance and continue communication with public and private permitting agencies made possible by the inventory. The location and inventory will enable regular site inspection, expedite our ability to precisely locate and identify visible leakage, ground erosion, or new encroachments.



Phase III (Fiscal Year 2016-17): Mapping of Cachuma Project easements into GIS. Contact by letter to all easement impacted landowners regarding COMB pipeline system maintenance responsibility.

Phase IV (Fiscal Year 2017-18): Survey pipeline and insert pipeline location markers.

Phase V (Fiscal Year 2017-18): Develop the annual pipeline inspection program for inclusion in the work plan. The annual inspection effort conducted will provide for updating information into the data base.

Regulatory Compliance

N/A

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2016-17 (Phase III)	\$20,000
2017-18 (Phases IV & V)	\$20,000
Total	\$40,000

Reference

September 2006 Boyle “Phase 2 Reliability Study for South Coast Conduit Upper Reach Tecolote Tunnel to Corona Del Mar Water Treatment Plant and Carpinteria Reach South Coast Conduit Booster Pump Station to Ortega Reservoir” Page 119

Boyle April 2005 “Reliability and Alternatives Study for the South Coast Conduit Carpinteria Reach Cater Booster Pump Station to Ortega Reservoir” Page 37 and Figure 17-A

Boyle April 2003 “Reliability Alternative Study for Upper Reach of the South Coast Conduit” Page 41.

Clean and Apply Grout into Leaking Cracks Outlet Works Interior Walls at Lauro Reservoir (2010-2-8)

Project Ranking

This project is considered part of regular maintenance and is not ranked with the other Infrastructure Improvement Plan Projects: This project is identified in the Infrastructure Improvement Plan because it exceeds \$25,000.

Total Estimated Cost: \$0



Background

In 1995, COMB staff attempted to seal and grout the Lauro Tunnel seams to prevent water intrusion. This and previous repairs were ineffective and have failed to prevent water intrusion over time.

Need for Project

Prevention of water intrusion in the tunnel would extend the useful life of the facility, ensure its reliability and promote a safer work environment.

Description

Removal of deteriorated grout and the injection of a water stop polymer would be conducted by a retained contractor.

Regulatory Compliance

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

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2017-18	\$0
Total	\$0

FY 2018-2022

Habitat Improvement Plan



Fisheries Division



Table of Contents

Executive Summary..... Page 3

Introduction Page 3

HIP Financial Matrix Page 4

Quiota Creek Fish Passage Projects (Summary, Background, and Need)..... Page 4

Quiota Creek Crossing 5 Page 6

Quiota Creek Crossing 8 Page 8

Quiota Creek Crossing 9..... Page 10

Quiota Creek Crossing 0B..... Page 12

Salsipuedes Creek Jalama Road Fish Ladder Fix Page 14

South Coast Conduit Stream Crossing Projects (Summary, Background, and Need) Page 16

Mission Creek at Highway 192 Page 17

Maria Ygnacio Creek at San Marcos Road Page 19

Cachuma Lake Oak Tree Restoration Program (Summary, Background, and Need)..... Page 21

Executive Summary

The Cachuma Operation and Maintenance Board (COMB) Fisheries Division is tasked, through the U. S. Bureau of Reclamation's (USBR) operation of the Cachuma Project, with carrying out the fisheries monitoring, data analysis and tributary enhancement projects as described in the National Marine Fisheries Service's (NMFS) 2000 Biological Opinion (BiOp). A consensus based, long-term fisheries program has been developed that provides protection for steelhead/rainbow trout (*Oncorhynchus mykiss*, *O. mykiss*) downstream of Bradbury Dam. This will be done through a combination of long-term monitoring, water releases from Bradbury Dam through the Hilton Creek Watering System, Hilton Creek Emergency Backup System and Outlet Works, passage flows to assist migrating steelhead, improved riparian habitat, and the removal or modification of numerous fish passage barriers to steelhead on tributaries of the Lower Santa Ynez River (LSYR). By implementing the NMFS 2000 BiOp, COMB has created significant additional habitat for steelhead within the LSYR watershed. This document is prepared by the COMB Fisheries Division for planning purposes with the timeline and costs of each project proposed over the next five years shown in Table 1.

An additional component of COMB's Fisheries Division includes the Cachuma Lake Oak Tree Restoration Program (Oak Tree Program), which was transferred from a private consultant to COMB in July of 2012. The Oak Tree Program is entering year twelve (12) of a twenty (20) year project, which includes ongoing maintenance, monitoring, annual reporting (inventory), and a replanting program. Budget allocation for the Oak Tree Program can be found at the bottom of Table 1.

USBR has entered into re-consultation with NMFS for a new Cachuma Project BiOp which is expected to contain a continuation of the fisheries monitoring program and possible enhancement projects where additional projects (and funding) could be needed. Anticipated new habitat enhancement areas could be along creek crossings of the South Coast Conduit (SCC) on the South Coast of Santa Barbara County where the SCC may create a fish passage impediment.

Introduction

COMB's Five-Year Habitat Improvement Plan (HIP) describes the needed funding for identified restoration projects slated for construction as well as for the ongoing Cachuma Lake Oak Tree Restoration Program from Fiscal Year (FY) 2017-2018 through FY 2021-2022. Each year the HIP will be updated to reflect changes that may occur within the short- and long-term, which could be manifested by funding sources, landowner agreements, and changes in compliance measures or project types through reconsultation with NMFS and USBR. Therefore, the HIP will continue to be a flexible document with annual updates submitted to the COMB Fisheries Committee and once recommended, will be presented to the COMB Board for approval in preparation of the annual Fisheries Budget.

Table 1: 5-Year HIP financial matrix for Fiscal Years 2017-18 through 2021-22; in years with two construction projects, there is a possibility of one of the projects slipping to the following year due to permits or design approval delays.

Project Name	Fiscal Year:				
	2017-18	2018-19	2019-20	2020-21	2021-22
Quiota Creek Crossing 5	\$960,000	\$0	\$0	\$0	\$0
Quiota Creek Crossing 8	\$60,000	\$0	\$0	\$0	\$0
Quiota Creek Crossing 9	\$30,000	\$930,000	\$0	\$0	\$0
Salsipuedes Creek Jalama Road Fish Ladder Fix	\$10,000	\$30,000	\$0	\$0	\$0
Mission Creek at Highway 192 (SCC)*	\$30,000	\$30,000	\$830,000	\$0	\$0
Quiota Creek Crossing 0B	\$0	\$0	\$30,000	\$880,000	\$0
Maria Ygnacio Creek at San Marcos Road (SCC)*	\$0	\$0	\$0	\$30,000	\$780,000
Cachuma Lake Oak Tree Restoration Program	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
TOTALS:	\$1,130,000	\$1,030,000	\$900,000	\$950,000	\$820,000
* Projects referenced in the draft Biological Assessment and speculated to be included in the forthcoming new Biological Opinion.					

Quiota Creek Fish Passage Projects

Summary

Quiota Creek is a tributary of the LSJR located approximately 8.4 miles downstream of Bradbury Dam and 39.7 miles from the Pacific Ocean. The watershed is approximately eight square miles and includes both private lands and portions of the Los Padres National Forest. Refugio Road crosses Quiota Creek nine times in the form of Arizona / low flow concrete crossings (Crossings 5 and 9), bottomless arched culverts (Crossings 1, 2, 3, 4, 6, and 7), and a temporary bridge (Crossing 8). Two additional crossings are located on private property (Crossings: 0A, a bottomless arched culvert; and 0B, a low flow concrete crossing), bringing the total number of crossings on Quiota Creek to eleven. The bottomless arched culverts already installed by COMB replaced low flow crossings with full span bottomless arched culverts that span well beyond bank full width of the creek and provide complete passage for juvenile and adult *O. mykiss* passage. Those projects were completed by COMB in 2013, 2011, 2015, 2016, 2008, and 2012, respectively. The Crossing 0A project was completed in 2016. The remaining crossings represent passage impediments that limit the passage opportunity for *O. mykiss* to reach designated critical habitat for spawning and rearing. The impediments are due to one or more of the following problems: 1) insufficient depth of flow over the crossing; 2) undersized and blocked culverts under the concrete low flow crossings that block fish passage; 3) insufficient pool depth below the crossing for *O. mykiss* to use when jumping; and 4) high vertical distance over the crossing that limit or prevent fish passage. The Fisheries Program is systematically replacing the remaining concrete low flow crossings, which have been determined to be partial fish passage barriers, with bottomless arched culverts to provide unrestricted access for *O. mykiss* throughout Quiota Creek. Funding for the construction of these projects depends on State and Federal grants and matching funds from COMB, hence a project cannot be built without grant funding. Each of these projects is described below.

Background

The Quiota Creek watershed, a tributary of the LSYR, is considered by NMFS and California Department of Fish and Wildlife (CDFW) to have excellent habitat for endangered southern steelhead and resident rainbow trout (both considered to be *O. mykiss*) in the upper watershed. NMFS designated Quiota Creek as critical habitat for *O. mykiss* (NOAA, 2005) and completed the Southern Steelhead Recovery Plan (2012) that identified the Santa Ynez River as a Core 1 Watershed with a specific threat source from passage barriers (Listing Factors 1 and 4) that these projects directly address. Refugio Road crosses Quiota Creek nine times. The crossings are numbered from downstream to upstream. COMB evaluated each crossing for fish passage and published the Quiota Creek Watershed Enhancement Plan (Plan) (CCRB, 2009). The Plan summarized the existing baseline conditions in the watershed relating to salmonid habitat and passage conditions following the CDFW criteria at each of the low flow crossings, and used that information to provide a guidance document for future restoration efforts that determined the prioritized order and type of treatment for each crossing. That program of work dictated the following list of habitat improvement projects described in this HIP. In 2008, Crossing 6 was replaced with a 48-foot bottomless arched culvert, in 2011 Crossing 2 was replaced with a 60-foot bottomless arched culvert, in 2012 Crossing 7 was replaced with a 60-foot bottomless arched culvert, in 2013 Crossing 1 was replaced with a 60-foot bottomless arched culvert, in 2015 Crossing 3 was replaced with a 53-foot bottomless arched culvert, in 2016 Crossing 4 was replaced with a 54-foot bottomless arched culvert, and also in 2016 Crossing 0A was replaced with a 55-foot bottomless arched culvert. Crossings 0B, 5, 8, and 9 are scheduled to be fixed within the next 5-7 years, depending on funding availability. Crossings 0A and 0B are on private property and not on Refugio Road and are in close proximity.

Need for Projects

The Quiota Creek projects described below are part of the proposed actions in the Cachuma Project BiOp (NMFS, 2000). NMFS designated Quiota Creek as critical habitat for the endangered southern steelhead (NOAA, 2005) and has classified the Santa Ynez River as a top priority watershed (Core 1) for the success of the recovery actions for southern steelhead (NMFS, 2012). By removing all of these migration barriers, approximately 6 miles of stream will be opened up above Crossing 0 for the endangered steelhead, most of which is in the upper watershed with the highest quality habitat for rearing and spawning. No anadromous steelhead have been observed in this creek since monitoring began in 2000 due to partial or total barriers. In 2008 though, an anadromous steelhead (600 mm fork length) was captured and safely released near the confluence of Quiota Creek and the LSYR mainstem that was genetically typed to be from Quiota Creek, suggesting that the anadromous gene persists in the watershed (Garza and Clemento, 2010).

Quiota Creek Crossing 5

Project Schedule

Design – FY 2017-18, and Construction – Fall FY 2017-18



Figure 1: Quiota Creek on Refugio Road showing upstream view of Crossing 5.

Description

The proposed fix for Crossing 5 is to replace an existing Arizona-type concrete crossing (Figure 1) with a 59-foot bottomless arched culvert that will allow for full juvenile and adult *O. mykiss* passage under the bridge and improve road safety along Refugio Road. The bridge will be aligned with the channel flow to reduce the potential for deposition and scour. The slope of the culvert will be approximately 2.1% and the channel bed will be lined with engineered streambed material composed of native material creating a naturalized channel bottom. The culvert will provide for an 18-foot wide road as required by the County of Santa Barbara with bridge rails and road guardrails. The proposed project will remove the existing low flow crossing, install a 60-foot bottomless arched culvert, construct a new road over the bottomless arched culvert, install vegetated rock slope protection around the bridge footings, place two rock weirs in the stream channel for grade control and to maintain *O. mykiss* habitat upstream, and re-vegetate the site with native CDFW approved plants. The project will be constructed to meet all the applicable guidance and permit criteria by CDFW, NMFS, CRWQCB, USACE, USFWS, and the County of Santa Barbara with respect to adult and juvenile anadromous and resident *O. mykiss* populations, as well as meet all traffic and public safety concerns. Any Coastal Live Oak, Valley Oak, or willow trees will be removed and replaced at a 10:1, 15:1, and 5:1 ratio, respectively. Hydro-mulching and hydro-seeding will be spread around the entire project footprint at the completion of the project to prevent erosion and return the site to a native and natural condition.

Project Budget

Fiscal Year	Cost
Fiscal Year 2017-18 (design)	\$ 30,000
Fiscal Year 2017-18 (construction)	\$930,000
Total	\$960,000

Quiota Creek Crossing 8

Project Schedule

Design – FY 2017-18

Construction – Fall FY 2017-18



Figure 2: Quiota Creek on Refugio Road showing upstream view of Crossing 8.

Description

The proposed fix for Crossing 8 is to replace an existing undersized temporary County bridge (Figure 2) with a 55-foot bottomless arched culvert that will allow for full juvenile and adult *O. mykiss* passage under the bridge and improve road safety along Refugio Road. The bridge will be aligned with the natural flow of the channel to reduce the potential for deposition and scour. The slope of the culvert will be approximately 2% and the channel bed will be lined with engineered streambed material composed of native material creating a naturalized channel bottom. The culvert will provide for a 24-foot wide road as required by the County of Santa Barbara with bridge rails and road guardrails. The proposed project will remove the existing temporary bridge, install a 55-foot bottomless arched culvert, construct a new road over the bottomless arched culvert, place two rock weirs in the channel for grade control, install vegetated rock slope protection around the bridge footings, and re-vegetate the site with native CDFW approved plants. The project will be constructed to meet all the applicable guidance and criteria by CDFW, NMFS, CRWQCB, USACE, USFWS, CalTrans, and the County of Santa Barbara with respect to adult and juvenile anadromous and resident *O. mykiss* populations while meeting all traffic, public safety and water quality concerns. One large Coast Live Oak tree and one willow tree will be removed and replaced at a 10:1 and 5:1 ratio, respectively. Hydro-mulching and hydro-seeding will be spread around the entire project footprint at the completion of the project to prevent erosion and return the site to a native and natural condition. The project has been funded by a CalTrans federal grant and will be administered by the County requiring only project oversight by COMB. Pending complete CalTrans approval, the project may be built as soon as FY2017-18 or the following year.

Project Budget

Fiscal Year	Cost
Fiscal Year 2017-18 (design)	\$30,000
Fiscal Year 2017-18 (construction)	\$30,000 (reimbursable - grant funding)
Total	\$60,000

Quiota Creek Crossing 9

Project Schedule

Design – FY 2017-18 and FY 2018-19,
Construction – Fall FY 2018-19



Figure 3: Quiota Creek on Refugio Road showing side-view of Crossing 9.

Description

The proposed fix for Crossing 9 is to replace an existing Arizona-type concrete crossing (Figure 3) with a 55-foot bottomless arched culvert that will allow for full juvenile and adult *O. mykiss* passage under the bridge and improve road safety along Refugio Road. The bridge will be aligned with the channel flow to reduce the potential for deposition and scour. The slope of the culvert will be approximately 2% and the channel bed will be lined with engineered streambed material composed of native material creating a naturalized channel bottom. The culvert will provide for an 18-foot wide road as required by the County of Santa Barbara with bridge rails and road guardrails. The proposed project will remove the existing low flow crossing, install a 55-foot bottomless arched culvert, construct a new road over the bottomless arched culvert, install vegetated rock slope protection around the bridge footings, place two rock weirs in the stream for grade control and create *O. mykiss* habitat, and re-vegetate the site with native CDFW approved plants. The project will be constructed to meet all the applicable guidance and permit criteria by CDFW, NMFS, CRWQCB, USACE, USFWS, and the County of Santa Barbara with respect to adult and juvenile anadromous and resident *O. mykiss* populations, as well as meet all traffic and public safety concerns. Any Coastal Live Oak, Valley Oak, or willow trees will be removed and replaced at a 10:1, 15:1, and 5:1 ratio, respectively. Hydro-mulching and hydro-seeding will be spread around the entire project footprint at the completion of the project to prevent erosion and return the site to a native and natural condition.

Project Budget

Fiscal Year	Cost
Fiscal Year 2018-19 (design)	\$ 30,000
Fiscal Year 2019-20 (design)	\$ 30,000
Fiscal Year 2019-20 (construction)	\$900,000
Total	\$960,000

Quiota Creek Crossing OB

Project Schedule

Design – FY 2019-20 and FY 2020-21,
Construction – Fall FY 2020-21



Figure 4: Lower Quiota Creek near the confluence with the Santa Ynez River showing Crossing OB.

Description

The proposed fix for Crossing OB is to replace the concrete low flow or Arizona-type concrete crossing (Figure 4) with a 55-foot bottomless arched culvert that will allow for a naturalized stream channel below. The landowners have been resistant to the project to date, but the hope is that after the successful completion of Crossing OA in 2016 they will come around and be supportive of this important fix. The bridge will be designed to convey the 25-year peak flow event and sustain the 100-year flow over the bridge as directed by Santa Barbara County for a rural private bridge. Also, the bridge will completely span the bank-full width of the creek following CDFW guidelines (CFDG, 2009). The resulting structure will provide for full juvenile and adult passage for anadromous and resident *O. mykiss* while improving road access and safety for the landowner. No trees will be removed during any portion of the construction. However, hydro-mulching and hydro-seeding will be spread around the entire project footprint at the completion of the project in order to prevent erosion and additional runoff. Willow stakes will be planted within the channel margin to provide habitat and structural integrity to the modified streambed. The project will be constructed to meet all the applicable guidance and permit criteria by CDFW, NMFS, California Regional Water Quality Control Board (RWQCB), U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service (USFWS), and the County of Santa Barbara with respect to adult and juvenile anadromous and resident *O. mykiss* populations, as well as meet all traffic and public safety concerns.

Project Budget

Fiscal Year	Cost
Fiscal Year 2019-20 (design)	\$ 30,000
Fiscal Year 2020-21 (design)	\$ 30,000
Fiscal Year 2020-21 (construction)	\$850,000
Total	\$910,000

Salsipuedes Creek Jalama Road Fish Ladder Fix

Project Schedule

Design –FY 2017-18 and Construction – Fall FY 2018-19



Figure 5: Salsipuedes Creek fish ladder at Jalama Road showing weirs that need to be fixed.

Description

A concrete structure located downstream of the Jalama Road Bridge on Salsipuedes Creek created a fish passage barrier to adult and juvenile steelhead. In 2004, COMB installed a fish passage structure (ladder) through that concrete apron on Salsipuedes Creek at the Jalama Road Bridge (Figure 5). This fish passage ladder was built along a bedrock outcrop capped with concrete by installing a series of three step-pools, which increased the range of flows during which juvenile and adult steelhead could migrate through the ladder. Although this fish passage ladder has successfully been passing juvenile and adult steelhead since its completion, NMFS and CDFW have requested that the orientation of the V-notch invert be changed at each step-pool and have noted that the maximum allowable jump height (1-foot) is being exceeded. In the spring of 2011, COMB solicited HDR Fisheries Design Center to create preliminary design criteria and design calculations for the requested fix.

The anticipated fix will include a modification to each weir invert to reverse the angle, enhance the grade control structure to focus more flow through the fish ladder, and install two weirs downstream to increase the scour pool height for easier access to the fish ladder. A stream by-pass system will likely need to be installed to keep water away from the immediate construction site during construction which has been included in the cost estimate. On the ground project implementation is expected to take 1 month in the fall of 2018.

Project Budget

Fiscal Year	Cost
Fiscal Year 2016-17 (design)	\$10,000
Fiscal Year 2017-18 (construction)	\$30,000
Total	\$40,000

South Coast Conduit Stream Crossing Projects

Summary

The South Coast Conduit (SCC) crosses multiple creeks between the South Portal of the Tecolote Tunnel (Glen Annie Creek watershed) to the west and Carpinteria Reservoir (Carpinteria Creek watershed) to the east. At most of those crossings, the SCC has been buried well below grade and poses no fish passage issues for upstream and downstream migrating *O. mykiss*. At 7 of those crossings though, it has been identified that the SCC does pose some level of fish passage impediment that could need to be remediated. These were described in a supplement to the Draft Biological Assessment (USBR, 2013) on fish passage barrier associated with the SCC (CCRB, 2015) that was submitted by USBR to NMFS and included Carneros Creek, Las Vegas Creek, Maria Ygnacio Creek, San Roque Creek, Mission Creek, Montecito Creek, and Romero Creek.

Background

USBR and NMFS have initiated consultation for a new Biological Opinion (BiOp) where NMFS has indicated that fish passage impediments caused by the SCC on South Coast streams will be included in their consideration of impacts to the endangered southern California steelhead from activities of the Cachuma Project (Lake Cachuma and all of its delivery systems).

Need for Projects

The new BiOp is expected to be released within the next year. The COMB Fisheries Division believes it would be prudent to include draft Biological Assessment identified impediments for *O. mykiss* migration from SCC stream crossings in this 5-Year HIP as they may be included in the forthcoming new Biological Opinion. The evaluation of each of those 7 crossings of concern in the draft Biological Assessment did include an assessment of the severity of fish passage impediment at each crossing. The two projects described below (Mission Creek at Highway 192 and Maria Ygnacio Creek at San Marcos Road) were identified as the highest priority projects.

Mission Creek at Highway 192

Project Schedule

Design –FY 2017-18, FY 2018-19
and FY 2019-20 and Construction
– Fall FY 2019-20



Figure 6: Mission Creek at Highway 192 showing the fish passage impediment, SCC and protective concrete on top.

Description

This project will lower the SCC pipeline by approximately 10 feet to provide sufficient coverage for the safety of the pipeline and install a roughened ramp on top that will enable juvenile and adult *O. mykiss* fish passage both upstream and downstream (Figure 6). Careful consideration will be given to protecting and preserving the historic Highway 192 Bridge abutments for structural integrity while providing fish passage. The project will be designed to not cause any rise in the 100 year floor height from Mission Creek within the project vicinity. Concrete thrust blocks will be installed well back from the extent of the high flow channel width on each side that will be used to join the new and deeper pipe once installed. The trench for the new pipe will be dug, the pipe laid and then attached to the thrust blocks. Once completed, the roughened ramp and 2 rock weirs for grade control will be constructed. The project will be constructed during the fall when the stream flow is traditionally at its lowest rate and there would be the least amount of impact to the fishery. Also, the project will need to move quickly to limit the amount of time that the SCC is shut down for construction that would stop water supply to all communities to the east (Montecito, Summerland and Carpinteria). The shutdown of the SCC is anticipated to be 2 days. The project is anticipated in the fall of 2019.

Project Budget

Fiscal Year	Cost
Fiscal Year 2017-18 (design)	\$30,000
Fiscal Year 2018-19 (design)	\$30,000
Fiscal Year 2019-20 (design)	\$30,000
Fiscal Year 2019-20 (construction)	\$850,000
Total	\$910,000

Maria Ygnacio Creek at San Marcos Road

Project Schedule

Design –FY 2020-21 and FY 2021-22
and Construction – Fall FY 2021-22



Figure 7: Maria Ygnacio Creek at San Marcos Road showing the fish passage impediment where the SCC crosses the creek with protective concrete on top.

Description

This project will lower the SCC pipeline by approximately 10 feet to provide sufficient coverage for the safety of the pipeline and 2 rock weirs for grade control that will enable juvenile and adult *O. mykiss* fish passage both upstream and downstream (Figure 7). The project will be designed in a similar manner to the Mission Creek Highway 192 project where all constructed items cannot cause any rise in the 100 year floor height from Maria Ygnacio Creek within the project vicinity. Concrete thrust blocks will be installed well back from the extent of the high flow channel width on each side that will be used to join the new and deeper pipe once installed. The trench for the new pipe will be dug, the pipe laid and then attached to the thrust blocks. Once completed, the rock weirs will be constructed. The project will be constructed during the fall when the stream flow is traditionally at its lowest rate and there would be the least amount of impact to the fishery. Also, the project will need to move quickly to limit the amount of time that the SCC is shut down for construction that would stop water supply to all communities to the east (Santa Barbara, Montecito, Summerland and Carpinteria). The shutdown of the SCC is anticipated to be 2 days. The project is anticipated in the fall of 2021.

Project Budget

Fiscal Year	Cost
Fiscal Year 2020-21 (design)	\$30,000
Fiscal Year 2021-22 (design)	\$30,000
Fiscal Year 2021-22 (construction)	\$750,000
Total	\$810,000

Cachuma Lake Oak Tree Restoration Program

Project Schedule

Year round



Figure 8: Cachuma Lake Oak Tree Restoration Program showing (a) training with arborist, (b) newly planted oaks at Storke Flat, (c) California Conservation Core planting at Lake Cachuma County Park, and (d) new Year 8 oak trees.

Summary

COMB, with the assistance of a contracted registered consulting arborist, began managing and implementing the Cachuma Lake Oak Tree Restoration Program (Program) in Fiscal Year 2012-2013 (Figure 8). A maintenance and monitoring plan (Plan) was put into place which describes the current conditions and contains guidelines for all program operations that are derived from standards established by the International Society of Arboriculture Best Management Practices for oak tree planting and maintenance. The program is ongoing until mitigation requirements from surcharging Lake Cachuma by three feet are met in 2025.

Background

In 2004, Reclamation installed 4 foot high flash boards on Bradbury Dam on the top of the radial gates. This allows for the surcharging of Lake Cachuma from 750 to 753 feet above mean sea level. At that time, this additional water storage was calculated to be 9,200 acre-feet and was designated to support

the fisheries activities below Bradbury Dam. Lake Cachuma was fully surcharged for the first time in 2005. The December 2013 Bathymetric survey determined that the additional 3 feet provides for 9,184 acre-feet of storage.

Surcharging Lake Cachuma was listed as a proposed action in the Cachuma Project BiOp (NMFS, 2000). Environmental impacts from that action were described and covered in the EIR/EIS for the Lower Santa Ynez River Fish Management Plan and BiOp for southern steelhead trout (COMB and USBR, 2004). The environmental impact from surcharging Lake Cachuma was determined to be a significant but mitigable impact (Class II) due to the small acreage involved. The 2004 EIR/EIS states that Reclamation will be conservative in their count of impacted shoreline oak trees by including in their final count dead and impacted (threatened or at-risk) trees. The EIR/EIR recommended an initial replacement ratio of 5:1 but COMB settled on 2.5:1 in order to reach a final 2:1 replacement ratio at 20 years (2025) with the mitigation number set at 10 years after surcharging began in 2015.

Increasing storage in the lake during surcharge events can impact near shore oak trees by inundation or wave action. In 2005, the Cachuma Lake Oak Tree Restoration Program was put in place to mitigate the potential loss of oak trees around the shoreline of Lake Cachuma from surcharge operations. An oak tree specialist was contracted to run the project and was utilized for seven years. COMB then took over the project, working with an advising arborist. The effect of surcharging on lakeshore oak trees was observable from 2005 onward. The reservoir was fully surcharged for the first time on January 14, 2005 and subsequently on May 7, 2006 and more recently on May 5, 2011. During 2011, which was a historic rainfall year, the lake was held at or near full surcharge for an extended period of time. This was the first time in the history of the project that a full surcharge had been maintained over the course of several months.

For six consecutive years starting in Fiscal Year 2005-2006, oak trees were planted and have been maintained since in accordance with a mitigation plan. Mitigated oak trees have been planted in two areas around Lake Cachuma: Storke Flats and just downstream of Bradbury Dam. Recently, more oak trees were planted in FY 2014-2015, FY 2015-16 and FY 2016-17, downstream of the dam, at Storke Flats and within the Lake Cachuma County Park. Approximately 4,000 trees have been planted so far at an approximate ratio of 9:1 of Coastal Live Oak to Valley Oak trees. In 2015, the exact number of mitigated oak trees (dead and at-risk) was determined; suggesting that approximately 800 more oak trees need to be planted to comply with the mitigation requirement. If the prediction calls for a normal to wet year, more trees will be planted in FY 2017-2018. If the mitigation requirement is met at a success rate of 2:1 for mature oak trees, the program will be completed in 2025.

Need for Project

This mitigation effort is to replace dead or at-risk oak trees around the shore of Lake Cachuma due to lake surcharging, which is a requirement of the EIR/EIS for the Lower Santa Ynez River Fish Management Plan and BiOp for southern steelhead trout (COMB and USBR, 2004).

Description

The following BMPs have been and will be conducted under supervision of the consulting registered arborist.

Irrigation: Oaks planted will be watered on an as needed basis depending on ambient conditions. All trees are now at least three years old and should be self-sustaining but drought conditions observed during the past three years may cause the need for further irrigation.

Weeding: All vegetation will be kept 1 foot away from the trunk, allowing the root collar to be exposed to air and sunlight. General weeding should be done in a 5 foot radius around each tree. Weed trimming will occur in the spring when grasses are expected to be prolific, followed by additional weeding in the summer and fall on an as needed basis.

Protective Caging: All trees will be caged for deer browsing protection until the trees are taller than 7 feet. Cages will be maintained in the winter when new growth is not being put on. Once the oak trees are over 7 feet tall, the tree cages will be removed.

Mulching: Mulch will be placed approximately 1-2 feet beyond the trunk base, extending out to where the roots are anticipated to be present (3-4 feet beyond the trunk). Mulch will be applied to a depth of 3 to 4 inches and will not be up against the tree trunk. Mulching is an ongoing effort for all planted and alive trees.

Root Collar Maintenance: Soil will be pulled back at least 4 inches from the trunk down to the root collar. The objective of this task is to allow continuous air circulation around the trunk, as moist soil adjacent to the trunk increases the likelihood of fungal diseases which can lead to tree failure.

Pruning: Young oak trees need a strong, well-established, central leader to promote vertical growth and long-term survival. This is particularly the case in areas where deer browsing can severely limit vertical growth such as around Lake Cachuma. This minor level of pruning will take place each fall and winter only.

Inventory: A comprehensive oak tree inventory will be conducted in the late fall of each year and maintained to track the location, condition, and maintenance needs of each tree. Photo and GPS documentation will alleviate any discrepancies in survivorship and missing trees. A GIS oak tree inventory will assist in managing maintenance needs. A report with financials and irrigation water usage will be prepared each year.

Budget

Fiscal Year	Cost
Fiscal Year 17-18	\$40,000
Fiscal Year 18-19	\$40,000
Fiscal Year 19-20	\$40,000
Fiscal Year 20-21	\$40,000
Fiscal Year 21-22	\$40,000
Total	\$200,000

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: CalPERS Pension Plan – Unfunded Liability

SUMMARY:

COMB has participated in the California Public Employees' Retirement System (CalPERS) since March, 1957 for the benefit of its employees. Each year, CalPERS provides an annual Actuarial Valuation report that establishes the future minimum contribution rates. These contribution rates are calculated based on the member and financial data combined with many assumptions and methods by CalPERS Actuaries that are detailed in the Actuarial Valuation Report.

In June of 2003, the CalPERS Board implemented a requirement that all plans with less than 100 active members be assigned to a risk-sharing pool with all other agencies in the State with similar benefit packages. The purpose of establishing these risk pools was to establish consistent, less volatile employer contribution rates for smaller agencies within the collective pool. As COMB had less than 100 employees, it was placed in the 2% percent @ 55 Miscellaneous pool.

On January 1, 2013, the Public Employees' Pension Reform Act of 2013 (PEPRA) took effect. In addition to creating new retirement formulas (2% at 62 PERS plan) for newly hired members, PEPRA also effectively closed all existing active ("Classic") risk pools to new employees. As such it became no longer appropriate to assume that the payroll of the risk pools for the "Classic" formula would grow at 3 percent annually.

Funding the promised pension benefits under the current methodology, as a percentage of payroll, would lead to the underfunding of the plans due to the decrease population of active participants. As a result, beginning with 2015/16, CalPERS began collecting employer contributions toward the unfunded liability as a fixed dollar amount for "Classic" employees.

On February 19, 2014 the CalPERS Board of Administration made changes that attempted to reduce the expected volatility of returns. A future discount rate of 7.5 percent was assumed and other demographic assumptions were changed to align more close to actual experience. The most significant change was a 20-year projected improvement to the mortality rate realizing that members are living longer.

It should be further noted that on December 21, 2016, CalPERS voted again to lower the discount rate from 7.5 percent to 7.0 percent over the next three years. This incremental lowering of the discount rate was phased in to give employers more time to prepare for the changes in employer contributions costs.

The discount rate changes (for public agency and school employers) approved by the Board, for the next three fiscal years (FY), are as follows:

FY 2018-19: 7.375%	FY 2019-20: 7.250%	FY 2020-21: 7.000%
--------------------	--------------------	--------------------

For the Fiscal Year 2017-18, the Plan's status for COMB is as follows (assuming a 7.5% discount factor):

Table 1

	Miscellaneous Plan (*)	
	Classic	PEPRA
<u>Plan Value As of June 30, 2015</u>	<u>2% @ 55</u>	<u>2% @ 62</u>
Plan's Accrued Liability	\$6,439,792	\$23,885
Plan's Share of Pool's Market Value of Assets	<u>\$5,177,663</u>	<u>\$22,282</u>
Total Unfunded Accrued Liability (UAL)	\$1,262,129	\$1,603
Funded Ratio	80.4%	93.3%
 <u>Employer Contribution - FY 2017/18</u>		
Employer Normal Cost Rate	8.921%	6.533%
UAL Lump Sum Payment	\$89,597	\$538

(*) Source: CalPERS Valuation Report as of June 30, 2015

Staff further compared its Plan status with the various Member Unit Plans for Classic Employees.

Table 2

Member Unit Plan Status / Employer Contribution FY 2017/18 (*)

	COMB	GWD	SB	CVWD	MWD	SY ID1
Funded Ratio	80.40%	74.10%	72.40%	70.80%	80.10%	79.50%
ER Cost %	8.92%	11.68%	10.36%	8.90%	8.92%	9.10%
Total UAL Accrued Liability	\$1.3M	\$12.7M	\$141.2M	\$2.3M	\$3.1M	\$1.4M
UAL Lump Sum Pmt FY 17/18	\$89.5k	\$1.1M	\$10.9M	\$251.9k	\$177k	\$118k

(*) Misc Plan Only - Excludes Misc Plan Tier 2, PEPRA, Fire/Safety

The total UAL is amortized over a thirty year period which started with the fiscal year 2015-16. The table below shows projected employer contributions under the Classic Plan for the next five fiscal years, assuming CalPERS earns 0.0 percent for Fiscal Year 2015-16 and 7.5 percent every fiscal year thereafter, and assuming that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur between now and the beginning of the projection period.

Table 3

	Required Contribution	Projected Future Employer Contributions				
		2018-19	2019-20	2020-21	2021-22	2022-23
Fiscal Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Normal Cost %	8.92%	8.90%	8.90%	8.90%	8.90%	8.90%
UAL Lump Sum Pmt	\$89,597	\$88,478	\$111,129	\$124,631	\$139,998	\$151,273

As previously stated, CalPERS Board of Administration approved lowering the CalPERS discount rate assumption, the long-term rate of return, from 7.50 percent to 7.00 percent over the next three years. This will increase public agency employer contribution costs beginning in Fiscal Year 2018-19. Lowering the discount rate means plans will see increases in both the normal costs (the cost of pension benefits accruing in one year for active members) and the accrued liabilities. These increases will result in higher required employer contributions.

In addition, active members hired after January 1, 2013, under the Public Employees' Pension Reform Act (PEPRA) may also see their contribution rates rise.

The benefits of reducing the discount rate include:

- Strengthening long-term sustainability of the fund
- Reducing negative cash flows; additional contributions will help to offset the cost to pay pensions
- Reducing the long-term probability of funded ratios falling below undesirable levels
- Improving the likelihood of CalPERS investments earning an assumed rate of return
- Reducing the risk of contribution increases in the future from volatile investment markets

The projected financial impact of this change in discount factor thru FY 2022-23 is as follows:

Table 4

Valuation Date	Fiscal Yr Impact	Normal Cost %		UAL Payments	
		Projected Change	Projected Revised Normal Cost %	Projected Change	Projected Revised UAL Payment
6/30/16	2018-19	0.25%-0.75%	8.92% - 8.97%	2%-3%	\$90,248 - \$91,132
6/30/17	2019-20	0.5%-1.5%	8.95% - 9.03%	4%-6%	\$115,574 - \$117,797
6/30/18	2020-21	1.0%-3.0%	8.99% - 9.17%	10%-15%	\$137,094 - \$143,326
6/30/19	2021-22	1.0%-3.0%	8.99% - 9.17%	15%-20%	\$160,998 - \$167,998
6/30/20	2022-23	1.0%-3.0%	8.99% - 9.17%	20%-25%	\$181,528 - \$189,091

COMMITTEE STATUS:

The Administrative Committee received information on COMB's unfunded liability at the May 19, 2017 meeting.

RECOMMENDATION:

For information and discussion only.

LIST OF EXHIBITS:

1. Miscellaneous Plan of the Cachuma Operation and Maintenance Board - Annual Valuation Report as of June 30, 2015
2. PEPRA Miscellaneous Plan of the Cachuma Operation and Maintenance Board - Annual Valuation Report as of June 30, 2015



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August 2016

**MISCELLANEOUS PLAN OF THE CACHUMA OPERATION AND MAINTENANCE BOARD
 (CalPERS ID: 7960651133)
 Annual Valuation Report as of June 30, 2015**

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2015 actuarial valuation report of the pension plan.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2015.

Section 2 can be found on the CalPERS website at (www.calpers.ca.gov). From the home page, go to "Forms & Publications" and select "View All". In the search box, enter "Risk Pool Report" and from the results list download the Miscellaneous or Safety Risk Pool Actuarial Valuation Report as appropriate.

Your June 30, 2015 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. Your assigned CalPERS staff actuary, whose signature appears in the Actuarial Certification section on page 1, is available to discuss the report with you after August 31, 2016.

Future Employer Contribution

Fiscal Year	Employer Normal Cost Rate	+	Employer Payment of Unfunded Liability
2017-18	8.921%		\$89,597
2018-19 (projected)	8.9%		\$88,478

The exhibit above displays the minimum employer contributions, before any cost sharing, for Fiscal Year 2017-18 along with estimates of the contributions for Fiscal Year 2018-19. The total employer contribution is the sum of a Normal Cost Rate applied to reported payroll plus an Unfunded Liability dollar payment. The estimated contributions for Fiscal Year 2018-19 are based on a projection of the most recent information we have available, including an estimated 0.0 percent investment return for Fiscal Year 2015-16 (based on the year to date return through April 30, 2016).

For a projection of employer contributions beyond Fiscal Year 2018-19, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This 5-year projection of future employer contributions supersedes any previous projections we have provided. The "Risk Analysis" section of the valuation report also contains estimated employer contributions in future years under a variety of investment return scenarios. Member contributions, other than cost sharing, are in addition to the above amounts. The employer contributions in this report do not reflect any cost sharing arrangements you may have with your employees.

The estimates for Fiscal Year 2018-19 also assume that there are no future contract amendments and no liability gains or losses (such as larger than expected pay increases, more retirements than expected, etc.) This is an important assumption because these gains and losses do occur and can have a significant effect on required contributions. Even for the largest plans or pools, such gains and losses can impact the employer's contributions. These gains and losses cannot be predicted in advance so the projected employer contributions are estimates. The actual required employer contribution for Fiscal Year 2018-19 will be provided in next year's valuation report.

Changes since the Prior Year's Valuation

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The policy has no impact on the current year valuation results but is expected to have an impact in future years. More details on the Risk Mitigation Policy can be found on our website.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Statement of Actuarial Data, Methods and Assumptions" of the Section 2 report. We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their results, we ask that you wait until after August 31 to contact us with actuarial related questions.

If you have other questions, please call our customer contact center at (888) CalPERS or (888-**225-7377**).

Sincerely,



ALAN MILLIGAN
Chief Actuary



ACTUARIAL VALUATION

as of June 30, 2015

**for the
MISCELLANEOUS PLAN
of the
CACHUMA OPERATION AND MAINTENANCE
BOARD**

(CalPERS ID: 7960651133)

**REQUIRED CONTRIBUTIONS
FOR FISCAL YEAR**

July 1, 2017 - June 30, 2018

TABLE OF CONTENTS

SECTION 1 – PLAN SPECIFIC INFORMATION

SECTION 2 – RISK POOL ACTUARIAL VALUATION INFORMATION

Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**Plan Specific Information
for the
MISCELLANEOUS PLAN
of the
CACHUMA OPERATION AND
MAINTENANCE BOARD**

**(CalPERS ID: 7960651133)
(Rate Plan: 364)**

TABLE OF CONTENTS

ACTUARIAL CERTIFICATION	1
HIGHLIGHTS AND EXECUTIVE SUMMARY	
• INTRODUCTION	3
• PURPOSE OF SECTION 1	3
• REQUIRED EMPLOYER CONTRIBUTION	4
• PLAN'S FUNDED STATUS	5
• PROJECTED EMPLOYER CONTRIBUTIONS	5
• CHANGES SINCE THE PRIOR YEAR VALUATION	5
• SUBSEQUENT EVENTS	5
ASSETS AND LIABILITIES	
• ALLOCATION OF PLAN'S SHARE OF POOL'S EXPERIENCE/ASSUMPTION CHANGE	7
• DEVELOPMENT OF PLAN'S SHARE OF POOL'S MVA	7
• SCHEDULE OF PLAN'S SIDE FUND & OTHER AMORTIZATION BASES	8
• 30-YEAR AMORTIZATION SCHEDULE AND ALTERNATIVES	9
• EMPLOYER CONTRIBUTION HISTORY	11
• FUNDING HISTORY	11
RISK ANALYSIS	
• ANALYSIS OF FUTURE INVESTMENT RETURN SCENARIOS	13
• ANALYSIS OF DISCOUNT RATE SENSITIVITY	14
• VOLATILITY RATIOS	15
• HYPOTHETICAL TERMINATION LIABILITY	16
PARTICIPANT DATA	17
LIST OF CLASS 1 BENEFIT PROVISIONS	17
PLAN'S MAJOR BENEFIT OPTIONS	18

ACTUARIAL CERTIFICATION

Section 1 of this report is based on the member and financial data contained in our records as of June 30, 2015 which was provided by your agency and the benefit provisions under your contract with CalPERS. Section 2 of this report is based on the member and financial data as of June 30, 2015 provided by employers participating in the Miscellaneous Risk Pool to which the plan belongs and benefit provisions under the CalPERS contracts for those agencies.

As set forth in Section 2 of this report, the pool actuary has certified that, in their opinion, the valuation of the risk pool containing your MISCELLANEOUS PLAN has been performed in accordance with generally accepted actuarial principles consistent with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the plan, it is my opinion as the plan actuary that the side fund and other Unfunded Accrued Liability bases as of June 30, 2015 and employer contribution as of July 1, 2017, have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary for CalPERS, who is a member of both the American Academy of Actuaries and Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



STUART BENNETT, ASA, MAAA
Senior Pension Actuary, CalPERS
Plan Actuary

HIGHLIGHTS AND EXECUTIVE SUMMARY

- **INTRODUCTION**
- **PURPOSE OF SECTION 1**
- **REQUIRED EMPLOYER CONTRIBUTION**
- **PLAN'S FUNDED STATUS**
- **PROJECTED EMPLOYER CONTRIBUTIONS**
- **CHANGES SINCE THE PRIOR YEAR VALUATION**
- **SUBSEQUENT EVENTS**

Introduction

This report presents the results of the June 30, 2015 actuarial valuation of the MISCELLANEOUS PLAN of the CACHUMA OPERATION AND MAINTENANCE BOARD of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for Fiscal Year 2017-18.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The Risk Mitigation Policy does not have an impact on the current year actuarial valuation. More details on the Risk Mitigation Policy can be found on our website.

Purpose of Section 1

This Section 1 report for the MISCELLANEOUS PLAN of the CACHUMA OPERATION AND MAINTENANCE BOARD of the California Public Employees' Retirement System (CalPERS) was prepared by the plan actuary in order to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2015;
- Determine the required employer contribution for this plan for the fiscal year July 1, 2017 through June 30, 2018; and
- Provide actuarial information as of June 30, 2015 to the CalPERS Board of Administration and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to GASB Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available from CalPERS and details for ordering are available on our website.

The use of this report for any other purposes may be inappropriate. In particular, this report does not contain information applicable to alternative benefit costs. The employer should contact their actuary before disseminating any portion of this report for any reason that is not explicitly described above.

California Actuarial Advisory Panel Recommendations

This report includes all the basic disclosure elements as described in the *Model Disclosure Elements for Actuarial Valuation Reports* recommended in 2011 by the California Actuarial Advisory Panel (CAAP), with the exception of including the original base amounts of the various components of the unfunded liability in the Schedule of Amortization Bases shown on page 8.

Additionally, this report includes the following "Enhanced Risk Disclosures" also recommended by the CAAP in the Model Disclosure Elements document:

- A "Deterministic Stress Test," projecting future results under different investment income scenarios
- A "Sensitivity Analysis," showing the impact on current valuation results using a 1 percent plus or minus change in the discount rate.

Required Employer Contribution

	Fiscal Year		Fiscal Year	
Required Employer Contribution	2016-17 ¹		2017-18	
Employer Normal Cost Rate	8.880%		8.921%	
<i>Plus Either</i>				
1) Monthly Employer Dollar UAL Payment	\$	6,217.76	\$	7,466.45
<i>Or</i>				
2) Annual Lump Sum Prepayment Option	\$	71,963	\$	86,415

The total minimum required employer contribution is the **sum** of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) **plus** the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly in dollars). Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31). Plan Normal Cost contributions will be made as part of the payroll reporting process. If there is contractual cost sharing or other change, this amount will change. § 20572 of the Public Employees' Retirement Law assesses interest at an annual rate of 10 percent if a contracting agency fails to remit the required contributions when due.

	Fiscal Year		Fiscal Year	
	2016-17 ¹		2017-18	
Development of Normal Cost as a Percentage of Payroll				
Base Total Normal Cost for Formula	15.263%		15.314%	
Surcharge for Class 1 Benefits ³				
a) FAC 1	0.503%		0.503%	
Phase out of Normal Cost Difference ⁴	0.000%		0.000%	
Plan's Total Normal Cost	15.766%		15.817%	
Formula's Expected Employee Contribution Rate	6.886%		6.896%	
Employer Normal Cost Rate	8.880%		8.921%	
Projected Payroll for the Contribution Fiscal Year	\$	1,124,770	\$	889,095
Estimated Employer Contributions Based on Projected Payroll				
Plan's Estimated Employer Normal Cost	\$	99,882	\$	79,316
Plan's Payment on Amortization Bases ²	74,613		89,597	
Total Employer Contribution ⁵	\$	174,495	\$	168,913

¹ The results shown for Fiscal Year 2016-17 reflect the prior year valuation and do not take into account any lump sum payment, side fund payoff, or rate adjustment made after June 30, 2015.

² See page 8 for a breakdown of the Amortization Bases.

³ Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges for each benefit.

⁴ The normal cost difference is phased out over a five year period. The phase out of normal cost difference is 100 percent for the first year of pooling, and is incrementally reduced by 20 percent of the original normal cost difference for each subsequent year. This is non-zero only for plans that joined a pool within the past 5 years. Most plans joined a pool June 30, 2003, when risk pooling was implemented.

⁵ As a percentage of projected payroll the UAL contribution is 10.077 percent for an estimated total employer contribution rate of 18.998 percent.

Plan's Funded Status

	June 30, 2014	June 30, 2015
1. Present Value of Projected Benefits (PVB)	\$ 7,178,960	\$ 7,239,958
2. Entry Age Normal Accrued Liability (AL)	6,088,237	6,439,792
3. Plan's Market Value of Assets (MVA)	5,106,998	5,177,663
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	981,239	1,262,129
5. Funded Ratio [(3) / (2)]	83.9%	80.4%

Projected Employer Contributions

The estimate for Fiscal Year 2018-19 is based on a projection of the most recent information we have available, including an estimated 0.0 percent investment return for Fiscal Year 2015-16 (based on year to date return through April 30, 2016).

The table below shows projected employer contributions (before cost sharing) for the next five fiscal years, **assuming CalPERS earns 0.0 percent for Fiscal Year 2015-16 and 7.50 percent every fiscal year thereafter**, and assuming that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur between now and the beginning of the projection period.

Fiscal Year	Required Contribution	Projected Future Employer Contributions				
	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Normal Cost %	8.921%	8.9%	8.9%	8.9%	8.9%	8.9%
UAL \$	\$89,597	\$88,478	\$111,129	\$124,631	\$139,998	\$151,273

Changes since the Prior Year's Valuation

Benefits

None. This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B of Section 2 for a summary of the plan provisions used in this valuation.

Actuarial Methods and Assumptions

None.

Subsequent Events

Risk Mitigation

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. More details on the Risk Mitigation Policy can be found on our website.

ASSETS AND LIABILITIES

- **ALLOCATION OF PLAN'S SHARE OF POOL'S EXPERIENCE/ASSUMPTION CHANGE**
- **DEVELOPMENT OF PLAN'S SHARE OF POOL'S MVA**
- **SCHEDULE OF PLAN'S SIDE FUND & OTHER AMORTIZATION BASES**
- **30-YEAR AMORTIZATION SCHEDULE AND ALTERNATIVES**
- **EMPLOYER CONTRIBUTION HISTORY**
- **FUNDING HISTORY**

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1.	Plan's Accrued Liability	\$	6,439,792
2.	Projected UAL balance at 6/30/15		1,002,046
3.	Pool's Accrued Liability	\$	13,889,938,645
4.	Sum of Pool's Individual Plan UAL Balances at 6/30/15		2,423,468,906
5.	Pool's 2014/15 Investment & Asset (Gain)/Loss		596,365,421
6.	Pool's 2014/15 Other (Gain)/Loss		(49,030,273)
7.	Plan's Share of Pool's Asset (Gain)/Loss $[(1)-(2)]/[(3)-(4)] * (5)$		282,814
8.	Plan's Share of Pool's Other (Gain)/Loss $[(1)]/[(3)] * (6)$		(22,732)
9.	Plan's New (Gain)/Loss as of 6/30/2015 $[(7)+(8)]$	\$	260,083
10.	Increase in Pool's Accrued Liability due to Change in Assumptions		0
11.	Plan's Share of Pool's Change in Assumptions $[(1)]/[(3)] * (10)$	\$	0

Development of the Plan's Share of Pool's Market Value of Assets

1.	Plan's Accrued Liability	\$	6,439,792
2.	Plan's UAL	\$	1,262,129
3.	Plan's Share of Pool's MVA $[(1)-(2)]$	\$	5,177,663

Schedule of Plan's Side Fund and Other Amortization Bases

There is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2015.
- The employer contribution determined by the valuation is for the fiscal year beginning two years after the valuation date: Fiscal Year 2017-18.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the payment on the UAL for the fiscal year and adjusting for interest.

Reason for Base	Date Established	Amortization Period	Balance 6/30/15	Payment 2015-16	Balance 6/30/16	Payment 2016-17	Amounts for Fiscal 2017-18	
							Balance 6/30/17	Scheduled Payment for 2017-18
SIDE FUND	2013 or Prior	1	\$58,955	\$21,253	\$41,341	\$21,890	\$21,746	\$22,546
SHARE OF PRE-2013 POOL UAL	06/30/13	20	\$479,868	\$34,161	\$480,439	\$35,186	\$479,990	\$36,242
ASSET (GAIN)/LOSS	06/30/13	28	\$645,946	\$9,085	\$684,972	\$18,716	\$716,940	\$28,916
NON-ASSET (GAIN)/LOSS	06/30/13	28	\$(6,311)	\$(89)	\$(6,692)	\$(183)	\$(7,004)	\$(282)
ASSET (GAIN)/LOSS	06/30/14	29	\$(469,782)	\$0	\$(505,016)	\$(7,103)	\$(535,528)	\$(14,632)
ASSUMPTION CHANGE	06/30/14	19	\$292,859	\$(5,214)	\$320,229	\$6,100	\$337,922	\$12,565
NON-ASSET (GAIN)/LOSS	06/30/14	29	\$511	\$0	\$549	\$8	\$582	\$16
ASSET (GAIN)/LOSS	06/30/15	30	\$282,814	\$0	\$304,026	\$0	\$326,827	\$4,597
NON-ASSET (GAIN)/LOSS	06/30/15	30	\$(22,732)	\$0	\$(24,437)	\$0	\$(26,270)	\$(369)
TOTAL			\$1,262,128	\$59,196	\$1,295,411	\$74,614	\$1,315,205	\$89,599

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed on the previous page. These (gain)/loss bases will be amortized according to Board policy over 30 years with a 5-year ramp-up.

If the total Unfunded Liability is negative (i.e., plan has a surplus), the scheduled payment is \$0, because the minimum required contribution under PEPRA must be at least equal to the normal cost.

30-Year Amortization Schedule and Alternatives

The amortization schedule on the previous page shows the minimum contributions required according to CalPERS amortization policy. There has been considerable interest from many agencies in paying off these unfunded accrued liabilities sooner and the possible savings in doing so. As a result, we have provided alternate amortization schedules to help analyze the current amortization schedule and illustrate the advantages of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternate "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. Note that the payments under each alternate scenario increase by 3 percent for each year into the future. The schedules do not attempt to reflect any experience after June 30, 2015 that may deviate from the actuarial assumptions. Therefore, future amortization payments displayed in the Current Amortization Schedule may not match projected amortization payments shown in connection with Projected Employer Contributions provided elsewhere in this report.

The Current Amortization Schedule typically contains individual bases that are both positive and negative. Positive bases result from plan changes, assumption changes or plan experience that result in increases to unfunded liability. Negative bases result from plan changes, assumption changes or plan experience that result in decreases to unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years such as:

- A positive total unfunded liability with a negative total payment,
- A negative total unfunded liability with a positive total payment, or
- Total payments that completely amortize the unfunded liability over a very short period of time

In any year where one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over a reasonable period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy. For purposes of this display, total payments include any negative payments. Therefore, the amount of estimated savings may be understated to the extent that negative payments appear in the current schedule.

30-Year Amortization Schedule and Alternatives

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	20 Year Amortization		15 Year Amortization	
			Balance	Payment	Balance	Payment
6/30/2017	1,315,205	89,597	1,315,205	99,305	1,315,205	120,564
6/30/2018	1,320,949	82,191	1,310,884	102,284	1,288,842	124,181
6/30/2019	1,334,803	98,179	1,303,150	105,353	1,256,751	127,907
6/30/2020	1,333,119	104,623	1,291,654	108,513	1,218,391	131,744
6/30/2021	1,324,627	112,520	1,276,019	111,769	1,173,176	135,696
6/30/2022	1,307,311	115,896	1,255,836	115,122	1,120,471	139,767
6/30/2023	1,285,196	119,372	1,230,663	118,576	1,059,593	143,960
6/30/2024	1,257,818	122,954	1,200,020	122,133	989,802	148,279
6/30/2025	1,224,673	126,642	1,163,392	125,797	910,298	152,727
6/30/2026	1,185,218	130,441	1,120,218	129,571	820,219	157,309
6/30/2027	1,138,865	134,355	1,069,892	133,458	718,634	162,028
6/30/2028	1,084,978	138,385	1,011,762	137,462	604,537	166,889
6/30/2029	1,022,870	142,537	945,121	141,585	476,843	171,896
6/30/2030	951,800	146,813	869,206	145,833	334,381	177,053
6/30/2031	870,966	151,217	783,194	150,208	175,888	182,364
6/30/2032	779,503	145,966	686,195	154,714		
6/30/2033	686,625	140,263	577,248	159,356		
6/30/2034	592,694	134,087	455,318	164,136		
6/30/2035	498,122	127,414	319,287	169,060		
6/30/2036	403,376	120,219	167,948	174,132		
6/30/2037	308,983	58,369				
6/30/2038	271,638	60,120				
6/30/2039	229,677	61,924				
6/30/2040	182,698	63,782				
6/30/2041	130,271	46,293				
6/30/2042	92,043	43,000				
6/30/2043	54,363	30,351				
6/30/2044	26,972	16,904				
6/30/2045	11,468	2,623				
6/30/2046	9,608	9,962				
Totals		2,877,001		2,668,366		2,242,364
Estimated Savings				208,634		634,636

Current CalPERS Board policy prioritizes the order for which lump sum contributions in excess of the required employer contribution shall be applied. Excess contributions shall first be applied toward payment on the plan's side fund, and any remainder shall then be applied toward the plan's share of the pool's unfunded accrued liability.

Please contact the plan actuary before making such a payment to ensure that the payment is applied correctly.

Employer Contribution History

The table below provides a recent history of the required employer contributions for the plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made during a fiscal year.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)
2016 - 17	8.880%	74,613
2017 - 18	8.921%	89,597

Funding History

The funding history below shows the plan's actuarial accrued liability, share of the pool's market value of assets, share of the pool's unfunded liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Plan's Share of Pool's Unfunded Liability	Funded Ratio	Annual Covered Payroll
06/30/2011	\$ 4,871,088	\$ 3,894,093	\$ 976,995	79.9%	\$ 1,074,778
06/30/2012	5,256,355	3,978,410	1,277,945	75.7%	1,089,156
06/30/2013	5,549,220	4,437,708	1,111,512	80.0%	992,025
06/30/2014	6,088,237	5,106,998	981,239	83.9%	1,029,324
06/30/2015	6,439,792	5,177,663	1,262,129	80.4%	813,648

RISK ANALYSIS

- **ANALYSIS OF FUTURE INVESTMENT RETURN SCENARIOS**
- **ANALYSIS OF DISCOUNT RATE SENSITIVITY**
- **VOLATILITY RATIOS**
- **HYPOTHETICAL TERMINATION LIABILITY**

Analysis of Future Investment Return Scenarios

The investment return for Fiscal Year 2015-16 was not known at the time this report was produced. The investment return in Fiscal Year 2015-16 as of April 30, 2016 is 0.0 percent before administrative expenses. For purposes of projecting future employer contributions, we are assuming a 0.0 percent investment return for Fiscal Year 2015-16.

The investment return realized during a fiscal year first affects the contribution for the fiscal year two years later. For example, the investment return for Fiscal Year 2015-16 will first be reflected in the June 30, 2016 actuarial valuation that will be used to set the Fiscal Year 2018-19 employer contributions, the Fiscal Year 2016-17 investment return will first be reflected in the June 30, 2017 actuarial valuation that will be used to set the Fiscal Year 2019-20 employer contributions, and so forth.

A sensitivity analysis was performed to determine the effects of various investment returns during fiscal years 2016-17, 2017-18, and 2018-19 on the employer contributions for fiscal years 2019-20, 2020-21, and 2021-22. The projected contributions assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Five different investment return scenarios were selected.

- The first scenario is a -3.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 5th percentile return from July 1, 2016 through June 30, 2019.
- The second scenario is a 2.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 25th percentile return from July 1, 2016 through June 30, 2019.
- The third scenario is a 7.5 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 49th percentile return from July 1, 2016 through June 30, 2019.
- The fourth scenario is a 12.0 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 75th percentile return from July 1, 2016 through June 30, 2019.
- Finally, the last scenario is an 18.9 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 95th percentile return from July 1, 2016 through June 30, 2019.

The table below shows the estimated projected contributions and the estimated increases for the plan under the five different scenarios.

2016-19 Investment Return Scenario	Fiscal Year			Estimated Change Between 2018-19 and 2021-22
	2019-20	2020-21	2021-22	
(3.8%)				
Normal Cost	8.9%	8.9%	8.9%	0.0%
UAL Contribution	\$120,561	\$153,086	\$197,267	\$108,789
2.8%				
Normal Cost	8.9%	8.9%	8.9%	0.0%
UAL Contribution	\$115,052	\$136,726	\$164,866	\$76,388
7.5%				
Normal Cost	8.9%	8.9%	8.9%	0.0%
UAL Contribution	\$111,129	\$124,631	\$139,998	\$51,520
12.0%				
Normal Cost	9.1%	9.3%	9.5%	0.6%
UAL Contribution	\$107,619	\$113,974	\$117,839	\$29,361
18.9%				
Normal Cost	9.5%	10.1%	10.6%	1.7%
UAL Contribution	\$102,440	\$98,141	\$0	\$(88,478)

For the last two scenarios in the table above the results incorporate the impact of CalPERS Risk Mitigation Policy. A 12.0% return would result in a reduction of the discount rate by 0.05% and a return of 18.9% would reduce the discount rate by 0.15%. Reducing the discount rate increases both the plan's accrued liability and normal cost. More details about Risk Mitigation policy can be found on our website.

Analysis of Discount Rate Sensitivity

The following analysis looks at the Fiscal Year 2017-18 total normal cost rates and liabilities under two different discount rate scenarios. Shown below are the total normal cost rates assuming discount rates that are 1 percent lower and 1 percent higher than the current valuation discount rate. This analysis shows the potential plan impacts if the Public Employees' Retirement Fund (PERF) were to realize investment returns of 6.50 percent or 8.50 percent over the long-term.

This analysis is intended to illustrate the long-term risk to the contribution rates.

Sensitivity Analysis			
As of June 30, 2015	6.50% Discount Rate (-1%)	7.50% Discount Rate (assumed rate)	8.50% Discount Rate (+1%)
Plan's Total Normal Cost	19.6%	15.8%	12.9%
Accrued Liability	\$7,270,548	\$6,439,792	\$5,751,004
Unfunded Accrued Liability	\$2,092,885	\$1,262,129	\$573,341

Volatility Ratios

Actuarial calculations are based on a number of assumptions about long-term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio (AVR)

Plans that have higher asset-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility, than a plan with an asset-to-payroll ratio of 4. Shown below is the asset volatility ratio, a measure of the plan's current contribution volatility. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

Liability Volatility Ratio (LVR)

Plans that have higher liability-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return and changes in liability. For example, a plan with a liability-to-payroll ratio of 8 is expected to have twice the contribution volatility of a plan with a liability-to-payroll ratio of 4. The liability volatility ratio is also shown in the table below. It should be noted that this ratio indicates a longer-term potential for contribution volatility. The asset volatility ratio, described above, will tend to move closer to the liability volatility ratio as the plan matures.

Rate Volatility	As of June 30, 2015	
1. Market Value of Assets	\$	5,177,663
2. Payroll		813,648
3. Asset Volatility Ratio (AVR) [(1) / (2)]		6.4
4. Accrued Liability	\$	6,439,792
5. Liability Volatility Ratio (LVR) [(4) / (2)]		7.9

Hypothetical Termination Liability

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2015. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For the hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed.

A more conservative investment policy and asset allocation strategy was adopted by the CalPERS Board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while funding risk is limited. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 2-year period centered around the valuation date.

Market Value of Assets (MVA)	Hypothetical Termination Liability^{1,2} @ 2.00%	Funded Status	Unfunded Termination Liability @ 2.00%	Hypothetical Termination Liability^{1,2} @ 3.25%	Funded Status	Unfunded Termination Liability @ 3.25%
\$5,177,663	\$12,535,023	41.3%	\$7,357,360	\$10,575,424	49.0%	\$5,397,761

¹ The hypothetical liabilities calculated above include a 7 percent mortality contingency load in accordance with Board policy. Other actuarial assumptions, such as wage and inflation assumptions, can be found in Appendix A.

² The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.75 percent on June 30, 2015.

In order to terminate the plan, you must first contact our Retirement Services Contract Unit to initiate a Resolution of Intent to terminate. The completed Resolution will allow the plan actuary to give you a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. CalPERS advises you to consult with the plan actuary before beginning this process.

Participant Data

The table below shows a summary of your plan's member data upon which this valuation is based:

	June 30, 2014	June 30, 2015
Reported Payroll	\$ 1,029,324	\$ 813,648
Projected Payroll for Contribution Purposes	\$ 1,124,770	\$ 889,095
Number of Members		
Active	13	9
Transferred	6	7
Separated	8	8
Retired	10	12

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- One Year Final Compensation (FAC 1)

PLAN'S MAJOR BENEFIT OPTIONS

SECTION 1 – PLAN SPECIFIC INFORMATION FOR THE MISCELLANEOUS PLAN OF THE CACHUMA OPERATION AND MAINTENANCE BOARD

Plan’s Major Benefit Options

Shown below is a summary of the major optional benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in Appendix B within Section 2 of this report.

Benefit Provision	Contract package	
	Active Misc	Receiving Misc
Benefit Formula	2.0% @ 55	
Social Security Coverage	Yes	
Full/Modified	Modified	
Employee Contribution Rate	7.00%	
Final Average Compensation Period	One Year	
Sick Leave Credit	Yes	
Non-Industrial Disability	Standard	
Industrial Disability	No	
Pre-Retirement Death Benefits		
Optional Settlement 2W	Yes	
1959 Survivor Benefit Level	No	
Special	No	
Alternate (firefighters)	No	No
Post-Retirement Death Benefits		
Lump Sum	\$500	\$500
Survivor Allowance (PRSA)	No	No
COLA	2%	2%

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**Section 2 may be found on the CalPERS website
(www.calpers.ca.gov) in the Forms and
Publications section**



California Public Employees' Retirement System
 Actuarial Office
 P.O. Box 942709
 Sacramento, CA 94229-2709
 TTY: (916) 795-3240
 (888) 225-7377 phone – (916) 795-2744 fax
www.calpers.ca.gov

August 2016

PEPRA MISCELLANEOUS PLAN OF THE CACHUMA OPERATION AND MAINTENANCE BOARD

(CalPERS ID: 7960651133)

Annual Valuation Report as of June 30, 2015

Dear Employer,

As an attachment to this letter, you will find a copy of the June 30, 2015 actuarial valuation report of the pension plan.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2015.

Section 2 can be found on the CalPERS website at (www.calpers.ca.gov). From the home page, go to "*Forms & Publications*" and select "*View All*". In the search box, enter "*Risk Pool Report*" and from the results list download the Miscellaneous or Safety Risk Pool Actuarial Valuation Report as appropriate.

Your June 30, 2015 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. Your assigned CalPERS staff actuary, whose signature appears in the Actuarial Certification section on page 1, is available to discuss the report with you after August 31, 2016.

Future Employer Contribution

Fiscal Year	Employer Normal Cost Rate	+	Employer Payment of Unfunded Liability
2017-18	6.533%		\$538
2018-19 (projected)	6.5%		\$581

The exhibit above displays the minimum employer contributions, before any cost sharing, for Fiscal Year 2017-18 along with estimates of the contributions for Fiscal Year 2018-19. The total employer contribution is the sum of a Normal Cost Rate applied to reported payroll plus an Unfunded Liability dollar payment. The estimated contributions for Fiscal Year 2018-19 are based on a projection of the most recent information we have available, including an estimated 0.0 percent investment return for Fiscal Year 2015-16 (based on the year to date return through April 30, 2016).

For a projection of employer contributions beyond Fiscal Year 2018-19, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This 5-year projection of future employer contributions supersedes any previous projections we have provided. The "Risk Analysis" section of the valuation report also contains estimated employer contributions in future years under a variety of investment return scenarios. Member contributions, other than cost sharing, are in addition to the above amounts. The employer contributions in this report do not reflect any cost sharing arrangements you may have with your employees.

The estimates for Fiscal Year 2018-19 also assume that there are no future contract amendments and no liability gains or losses (such as larger than expected pay increases, more retirements than expected, etc.) This is an important assumption because these gains and losses do occur and can have a significant effect on required contributions. Even for the largest plans or pools, such gains and losses can impact the employer's contributions. These gains and losses cannot be predicted in advance so the projected employer contributions are estimates. The actual required employer contribution for Fiscal Year 2018-19 will be provided in next year's valuation report.

Changes since the Prior Year's Valuation

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The policy has no impact on the current year valuation results but is expected to have an impact in future years. More details on the Risk Mitigation Policy can be found on our website.

Besides the above noted changes, there may also be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A, "Statement of Actuarial Data, Methods and Assumptions" of the Section 2 report. We understand that you might have a number of questions about these results. While we are very interested in discussing these results with your agency, in the interest of allowing us to give every public agency their results, we ask that you wait until after August 31 to contact us with actuarial related questions.

If you have other questions, please call our customer contact center at (888) CalPERS or (888-**225-7377**).

Sincerely,



ALAN MILLIGAN
Chief Actuary



ACTUARIAL VALUATION

as of June 30, 2015

**for the
PEPRA MISCELLANEOUS PLAN
of the
CACHUMA OPERATION AND MAINTENANCE
BOARD**

(CalPERS ID: 7960651133)

**REQUIRED CONTRIBUTIONS
FOR FISCAL YEAR**

July 1, 2017 - June 30, 2018

TABLE OF CONTENTS

SECTION 1 – PLAN SPECIFIC INFORMATION

SECTION 2 – RISK POOL ACTUARIAL VALUATION INFORMATION

Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**Plan Specific Information
for the
PEPRA MISCELLANEOUS PLAN
of the
CACHUMA OPERATION AND
MAINTENANCE BOARD**

**(CalPERS ID: 7960651133)
(Rate Plan: 26291)**

TABLE OF CONTENTS

ACTUARIAL CERTIFICATION	1
HIGHLIGHTS AND EXECUTIVE SUMMARY	
• INTRODUCTION	3
• PURPOSE OF SECTION 1	3
• REQUIRED EMPLOYER CONTRIBUTION	4
• PLAN'S FUNDED STATUS	5
• PROJECTED EMPLOYER CONTRIBUTIONS	5
• CHANGES SINCE THE PRIOR YEAR VALUATION	5
• SUBSEQUENT EVENTS	5
ASSETS AND LIABILITIES	
• ALLOCATION OF PLAN'S SHARE OF POOL'S EXPERIENCE/ASSUMPTION CHANGE	7
• DEVELOPMENT OF PLAN'S SHARE OF POOL'S MVA	7
• SCHEDULE OF PLAN'S SIDE FUND & OTHER AMORTIZATION BASES	8
• 30-YEAR AMORTIZATION SCHEDULE AND ALTERNATIVES	9
• EMPLOYER CONTRIBUTION HISTORY	11
• FUNDING HISTORY	11
RISK ANALYSIS	
• ANALYSIS OF FUTURE INVESTMENT RETURN SCENARIOS	13
• ANALYSIS OF DISCOUNT RATE SENSITIVITY	14
• VOLATILITY RATIOS	15
• HYPOTHETICAL TERMINATION LIABILITY	16
PARTICIPANT DATA	17
LIST OF CLASS 1 BENEFIT PROVISIONS	17
PLAN'S MAJOR BENEFIT OPTIONS	18

ACTUARIAL CERTIFICATION

Section 1 of this report is based on the member and financial data contained in our records as of June 30, 2015 which was provided by your agency and the benefit provisions under your contract with CalPERS. Section 2 of this report is based on the member and financial data as of June 30, 2015 provided by employers participating in the Miscellaneous Risk Pool to which the plan belongs and benefit provisions under the CalPERS contracts for those agencies.

As set forth in Section 2 of this report, the pool actuary has certified that, in their opinion, the valuation of the risk pool containing your PEPRA MISCELLANEOUS PLAN has been performed in accordance with generally accepted actuarial principles consistent with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the plan, it is my opinion as the plan actuary that the side fund and other Unfunded Accrued Liability bases as of June 30, 2015 and employer contribution as of July 1, 2017, have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary for CalPERS, who is a member of both the American Academy of Actuaries and Society of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



STUART BENNETT, ASA, MAAA
Senior Pension Actuary, CalPERS
Plan Actuary

HIGHLIGHTS AND EXECUTIVE SUMMARY

- **INTRODUCTION**
- **PURPOSE OF SECTION 1**
- **REQUIRED EMPLOYER CONTRIBUTION**
- **PLAN'S FUNDED STATUS**
- **PROJECTED EMPLOYER CONTRIBUTIONS**
- **CHANGES SINCE THE PRIOR YEAR VALUATION**
- **SUBSEQUENT EVENTS**

Introduction

This report presents the results of the June 30, 2015 actuarial valuation of the PEPRA MISCELLANEOUS PLAN of the CACHUMA OPERATION AND MAINTENANCE BOARD of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for Fiscal Year 2017-18.

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. The Risk Mitigation Policy does not have an impact on the current year actuarial valuation. More details on the Risk Mitigation Policy can be found on our website.

Purpose of Section 1

This Section 1 report for the PEPRA MISCELLANEOUS PLAN of the CACHUMA OPERATION AND MAINTENANCE BOARD of the California Public Employees' Retirement System (CalPERS) was prepared by the plan actuary in order to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2015;
- Determine the required employer contribution for this plan for the fiscal year July 1, 2017 through June 30, 2018; and
- Provide actuarial information as of June 30, 2015 to the CalPERS Board of Administration and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to GASB Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available from CalPERS and details for ordering are available on our website.

The use of this report for any other purposes may be inappropriate. In particular, this report does not contain information applicable to alternative benefit costs. The employer should contact their actuary before disseminating any portion of this report for any reason that is not explicitly described above.

California Actuarial Advisory Panel Recommendations

This report includes all the basic disclosure elements as described in the *Model Disclosure Elements for Actuarial Valuation Reports* recommended in 2011 by the California Actuarial Advisory Panel (CAAP), with the exception of including the original base amounts of the various components of the unfunded liability in the Schedule of Amortization Bases shown on page 8.

Additionally, this report includes the following "Enhanced Risk Disclosures" also recommended by the CAAP in the Model Disclosure Elements document:

- A "Deterministic Stress Test," projecting future results under different investment income scenarios
- A "Sensitivity Analysis," showing the impact on current valuation results using a 1 percent plus or minus change in the discount rate.

Required Employer Contribution

	Fiscal Year		Fiscal Year	
Required Employer Contribution	2016-17 ¹		2017-18	
Employer Normal Cost Rate	6.555%		6.533%	
<i>Plus Either</i>				
1) Monthly Employer Dollar UAL Payment	\$	1.65	\$	44.86
<i>Or</i>				
2) Annual Lump Sum Prepayment Option	\$	19	\$	519

*The total minimum required employer contribution is the **sum** of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) **plus** the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly in dollars). Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31). Plan Normal Cost contributions will be made as part of the payroll reporting process. If there is contractual cost sharing or other change, this amount will change. § 20572 of the Public Employees' Retirement Law assesses interest at an annual rate of 10 percent if a contracting agency fails to remit the required contributions when due.*

	Fiscal Year		Fiscal Year	
	2016-17 ¹		2017-18	
Development of Normal Cost as a Percentage of Payroll				
Base Total Normal Cost for Formula		12.805%		12.783%
Surcharge for Class 1 Benefits ³				
None		0.000%		0.000%
Phase out of Normal Cost Difference ⁴		0.000%		0.000%
Plan's Total Normal Cost		<u>12.805%</u>		<u>12.783%</u>
Plan's Employee Contribution Rate		<u>6.250%</u>		<u>6.250%</u>
Employer Normal Cost Rate		6.555%		6.533%
Projected Payroll for the Contribution Fiscal Year	\$	107,575	\$	159,316
Estimated Employer Contributions Based on Projected Payroll				
Plan's Estimated Employer Normal Cost	\$	7,051	\$	10,408
Plan's Payment on Amortization Bases ²		<u>20</u>		<u>538</u>
Total Employer Contribution ⁵	\$	7,071	\$	10,946

¹ The results shown for Fiscal Year 2016-17 reflect the prior year valuation and do not take into account any lump sum payment, side fund payoff, or rate adjustment made after June 30, 2015.

² See page 8 for a breakdown of the Amortization Bases.

³ Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges for each benefit.

⁴ The normal cost difference is phased out over a five year period. The phase out of normal cost difference is 100 percent for the first year of pooling, and is incrementally reduced by 20 percent of the original normal cost difference for each subsequent year. This is non-zero only for plans that joined a pool within the past 5 years. Most plans joined a pool June 30, 2003, when risk pooling was implemented.

⁵ As a percentage of projected payroll the UAL contribution is 0.338 percent for an estimated total employer contribution rate of 6.871 percent.

Plan's Funded Status

	June 30, 2014	June 30, 2015
1. Present Value of Projected Benefits (PVB)	\$ 139,825	\$ 195,576
2. Entry Age Normal Accrued Liability (AL)	692	23,885
3. Plan's Market Value of Assets (MVA)	723	22,282
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	(31)	1,603
5. Funded Ratio [(3) / (2)]	104.5%	93.3%

Projected Employer Contributions

The estimate for Fiscal Year 2018-19 is based on a projection of the most recent information we have available, including an estimated 0.0 percent investment return for Fiscal Year 2015-16 (based on year to date return through April 30, 2016).

The table below shows projected employer contributions (before cost sharing) for the next five fiscal years, **assuming CalPERS earns 0.0 percent for Fiscal Year 2015-16 and 7.50 percent every fiscal year thereafter**, and assuming that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur between now and the beginning of the projection period.

	Required Contribution	Projected Future Employer Contributions				
Fiscal Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Normal Cost %	6.533%	6.5%	6.5%	6.5%	6.5%	6.5%
UAL \$	\$538	\$581	\$627	\$674	\$724	\$152

Changes since the Prior Year's Valuation

Benefits

None. This valuation generally reflects plan changes by amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" and Appendix B of Section 2 for a summary of the plan provisions used in this valuation.

Actuarial Methods and Assumptions

None.

Subsequent Events

Risk Mitigation

The CalPERS Board of Administration adopted a Risk Mitigation Policy which is designed to reduce funding risk over time. The policy establishes a mechanism whereby CalPERS investment performance that significantly outperforms the discount rate triggers adjustments to the discount rate, expected investment return and strategic asset allocation targets. A minimum excess investment return of 4% above the existing discount rate is necessary to cause a funding risk mitigation event. More details on the Risk Mitigation Policy can be found on our website.

ASSETS AND LIABILITIES

- **ALLOCATION OF PLAN'S SHARE OF POOL'S EXPERIENCE/ASSUMPTION CHANGE**
- **DEVELOPMENT OF PLAN'S SHARE OF POOL'S MVA**
- **SCHEDULE OF PLAN'S SIDE FUND & OTHER AMORTIZATION BASES**
- **30-YEAR AMORTIZATION SCHEDULE AND ALTERNATIVES**
- **EMPLOYER CONTRIBUTION HISTORY**
- **FUNDING HISTORY**

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1.	Plan's Accrued Liability	\$	23,885
2.	Projected UAL balance at 6/30/15		469
3.	Pool's Accrued Liability	\$	13,889,938,645
4.	Sum of Pool's Individual Plan UAL Balances at 6/30/15		2,423,468,906
5.	Pool's 2014/15 Investment & Asset (Gain)/Loss		596,365,421
6.	Pool's 2014/15 Other (Gain)/Loss		(49,030,273)
7.	Plan's Share of Pool's Asset (Gain)/Loss $[(1)-(2)]/[(3)-(4)] * (5)$		1,218
8.	Plan's Share of Pool's Other (Gain)/Loss $[(1)]/[(3)] * (6)$		(84)
9.	Plan's New (Gain)/Loss as of 6/30/2015 $[(7)+(8)]$	\$	1,134
10.	Increase in Pool's Accrued Liability due to Change in Assumptions		0
11.	Plan's Share of Pool's Change in Assumptions $[(1)]/[(3)] * (10)$	\$	0

Development of the Plan's Share of Pool's Market Value of Assets

1.	Plan's Accrued Liability	\$	23,885
2.	Plan's UAL	\$	1,603
3.	Plan's Share of Pool's MVA $[(1)-(2)]$	\$	22,282

Schedule of Plan's Side Fund and Other Amortization Bases

There is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2015.
- The employer contribution determined by the valuation is for the fiscal year beginning two years after the valuation date: Fiscal Year 2017-18.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the payment on the UAL for the fiscal year and adjusting for interest.

Reason for Base	Date Established	Amortization Period	Balance 6/30/15	Payment 2015-16	Balance 6/30/16	Payment 2016-17	Amounts for Fiscal 2017-18	
							Balance 6/30/17	Scheduled Payment for 2017-18
FRESH START	06/30/15	5	\$1,603	\$(499)	\$2,240	\$20	\$2,387	\$538
TOTAL			\$1,603	\$(499)	\$2,240	\$20	\$2,387	\$538

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed on the previous page. These (gain)/loss bases will be amortized according to Board policy over 30 years with a 5-year ramp-up.

If the total Unfunded Liability is negative (i.e., plan has a surplus), the scheduled payment is \$0, because the minimum required contribution under PEPRA must be at least equal to the normal cost.

30-Year Amortization Schedule and Alternatives

The amortization schedule on the previous page shows the minimum contributions required according to CalPERS amortization policy. There has been considerable interest from many agencies in paying off these unfunded accrued liabilities sooner and the possible savings in doing so. As a result, we have provided alternate amortization schedules to help analyze the current amortization schedule and illustrate the advantages of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternate "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. Note that the payments under each alternate scenario increase by 3 percent for each year into the future. The schedules do not attempt to reflect any experience after June 30, 2015 that may deviate from the actuarial assumptions. Therefore, future amortization payments displayed in the Current Amortization Schedule may not match projected amortization payments shown in connection with Projected Employer Contributions provided elsewhere in this report.

The Current Amortization Schedule typically contains individual bases that are both positive and negative. Positive bases result from plan changes, assumption changes or plan experience that result in increases to unfunded liability. Negative bases result from plan changes, assumption changes or plan experience that result in decreases to unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years such as:

- A positive total unfunded liability with a negative total payment,
- A negative total unfunded liability with a positive total payment, or
- Total payments that completely amortize the unfunded liability over a very short period of time

In any year where one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over a reasonable period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy. For purposes of this display, total payments include any negative payments. Therefore, the amount of estimated savings may be understated to the extent that negative payments appear in the current schedule.

30-Year Amortization Schedule and Alternatives

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	0 Year Amortization		0 Year Amortization	
			Balance	Payment	Balance	Payment
6/30/2017	2,387	538	N/A	N/A	N/A	N/A
6/30/2018	2,008	554				
6/30/2019	1,584	571				
6/30/2020	1,111	588				
6/30/2021	584	606				
6/30/2022	0	0				
6/30/2023	0	0				
6/30/2024	0	0				
6/30/2025	0	0				
6/30/2026	0	0				
6/30/2027	0	0				
6/30/2028	0	0				
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6/30/2038	0	0				
6/30/2039	0	0				
6/30/2040	0	0				
6/30/2041	0	0				
6/30/2042	0	0				
6/30/2043	0	0				
6/30/2044	0	0				
6/30/2045	0	0				
6/30/2046	0	0				
Totals		2,858		0		0
Estimated Savings				0		0

Current CalPERS Board policy prioritizes the order for which lump sum contributions in excess of the required employer contribution shall be applied. Excess contributions shall first be applied toward payment on the plan's side fund, and any remainder shall then be applied toward the plan's share of the pool's unfunded accrued liability.

Please contact the plan actuary before making such a payment to ensure that the payment is applied correctly.

Employer Contribution History

The table below provides a recent history of the required employer contributions for the plan, as determined by the annual actuarial valuation. It does not account for prepayments or benefit changes made during a fiscal year.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)
2016 - 17	6.555%	20
2017 - 18	6.533%	538

Funding History

The funding history below shows the plan's actuarial accrued liability, share of the pool's market value of assets, share of the pool's unfunded liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Plan's Share of Pool's Unfunded Liability	Funded Ratio	Annual Covered Payroll
06/30/2014	\$ 692	\$ 723	\$ (31)	104.5%	\$ 98,446
06/30/2015	23,885	22,282	1,603	93.3%	145,797

RISK ANALYSIS

- **ANALYSIS OF FUTURE INVESTMENT RETURN SCENARIOS**
- **ANALYSIS OF DISCOUNT RATE SENSITIVITY**
- **VOLATILITY RATIOS**
- **HYPOTHETICAL TERMINATION LIABILITY**

Analysis of Future Investment Return Scenarios

The investment return for Fiscal Year 2015-16 was not known at the time this report was produced. The investment return in Fiscal Year 2015-16 as of April 30, 2016 is 0.0 percent before administrative expenses. For purposes of projecting future employer contributions, we are assuming a 0.0 percent investment return for Fiscal Year 2015-16.

The investment return realized during a fiscal year first affects the contribution for the fiscal year two years later. For example, the investment return for Fiscal Year 2015-16 will first be reflected in the June 30, 2016 actuarial valuation that will be used to set the Fiscal Year 2018-19 employer contributions, the Fiscal Year 2016-17 investment return will first be reflected in the June 30, 2017 actuarial valuation that will be used to set the Fiscal Year 2019-20 employer contributions, and so forth.

A sensitivity analysis was performed to determine the effects of various investment returns during fiscal years 2016-17, 2017-18, and 2018-19 on the employer contributions for fiscal years 2019-20, 2020-21, and 2021-22. The projected contributions assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

Five different investment return scenarios were selected.

- The first scenario is a -3.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 5th percentile return from July 1, 2016 through June 30, 2019.
- The second scenario is a 2.8 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 25th percentile return from July 1, 2016 through June 30, 2019.
- The third scenario is a 7.5 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 49th percentile return from July 1, 2016 through June 30, 2019.
- The fourth scenario is a 12.0 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 75th percentile return from July 1, 2016 through June 30, 2019.
- Finally, the last scenario is an 18.9 percent return for each of the 2016-17, 2017-18, and 2018-19 fiscal years. Based on the current investment allocation, this is what one would expect if the markets were to give us about a 95th percentile return from July 1, 2016 through June 30, 2019.

The table below shows the estimated projected contributions and the estimated increases for the plan under the five different scenarios.

2016-19 Investment Return Scenario	Fiscal Year			Estimated Change Between 2018-19 and 2021-22
	2019-20	2020-21	2021-22	
(3.8%)				
Normal Cost	6.5%	6.5%	6.5%	0.0%
UAL Contribution	\$667	\$797	\$971	\$390
2.8%				
Normal Cost	6.5%	6.5%	6.5%	0.0%
UAL Contribution	\$644	\$726	\$831	\$250
7.5%				
Normal Cost	6.5%	6.5%	6.5%	0.0%
UAL Contribution	\$627	\$674	\$724	\$143
12.0%				
Normal Cost	6.5%	6.5%	6.6%	0.1%
UAL Contribution	\$613	\$630	\$0	\$(581)
18.9%				
Normal Cost	6.6%	6.8%	7.1%	0.6%
UAL Contribution	\$592	\$0	\$0	\$(581)

For the last two scenarios in the table above the results incorporate the impact of CalPERS Risk Mitigation Policy. A 12.0% return would result in a reduction of the discount rate by 0.05% and a return of 18.9% would reduce the discount rate by 0.15%. Reducing the discount rate increases both the plan's accrued liability and normal cost. More details about Risk Mitigation policy can be found on our website.

Analysis of Discount Rate Sensitivity

The following analysis looks at the Fiscal Year 2017-18 total normal cost rates and liabilities under two different discount rate scenarios. Shown below are the total normal cost rates assuming discount rates that are 1 percent lower and 1 percent higher than the current valuation discount rate. This analysis shows the potential plan impacts if the Public Employees' Retirement Fund (PERF) were to realize investment returns of 6.50 percent or 8.50 percent over the long-term.

This analysis is intended to illustrate the long-term risk to the contribution rates.

Sensitivity Analysis			
As of June 30, 2015	6.50% Discount Rate (-1%)	7.50% Discount Rate (assumed rate)	8.50% Discount Rate (+1%)
Plan's Total Normal Cost	15.7%	12.8%	10.5%
Accrued Liability	\$28,091	\$23,885	\$20,511
Unfunded Accrued Liability	\$5,809	\$1,603	\$(1,771)

Volatility Ratios

Actuarial calculations are based on a number of assumptions about long-term demographic and economic behavior. Unless these assumptions (terminations, deaths, disabilities, retirements, salary growth, and investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio (AVR)

Plans that have higher asset-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility, than a plan with an asset-to-payroll ratio of 4. Shown below is the asset volatility ratio, a measure of the plan's current contribution volatility. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as the plan matures.

Liability Volatility Ratio (LVR)

Plans that have higher liability-to-payroll ratios experience more volatile employer contributions (as a percentage of payroll) due to investment return and changes in liability. For example, a plan with a liability-to-payroll ratio of 8 is expected to have twice the contribution volatility of a plan with a liability-to-payroll ratio of 4. The liability volatility ratio is also shown in the table below. It should be noted that this ratio indicates a longer-term potential for contribution volatility. The asset volatility ratio, described above, will tend to move closer to the liability volatility ratio as the plan matures.

Rate Volatility	As of June 30, 2015	
1. Market Value of Assets	\$	22,282
2. Payroll		145,797
3. Asset Volatility Ratio (AVR) [(1) / (2)]		0.2
4. Accrued Liability	\$	23,885
5. Liability Volatility Ratio (LVR) [(4) / (2)]		0.2

Hypothetical Termination Liability

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2015. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For the hypothetical termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed.

A more conservative investment policy and asset allocation strategy was adopted by the CalPERS Board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while funding risk is limited. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 2-year period centered around the valuation date.

Market Value of Assets (MVA)	Hypothetical Termination Liability ^{1,2} @ 2.00%	Funded Status	Unfunded Termination Liability @ 2.00%	Hypothetical Termination Liability ^{1,2} @ 3.25%	Funded Status	Unfunded Termination Liability @ 3.25%
\$22,282	\$12,931	172.3%	\$(9,352)	\$12,931	172.3%	\$(9,352)

For plans where active members have little service the hypothetical termination liability methodology used does not fully vest active members upon termination. In these cases the hypothetical termination liability is understated.

¹ The hypothetical liabilities calculated above include a 7 percent mortality contingency load in accordance with Board policy. Other actuarial assumptions, such as wage and inflation assumptions, can be found in Appendix A.

² The current discount rate assumption used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 2.75 percent on June 30, 2015.

In order to terminate the plan, you must first contact our Retirement Services Contract Unit to initiate a Resolution of Intent to terminate. The completed Resolution will allow the plan actuary to give you a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. CalPERS advises you to consult with the plan actuary before beginning this process.

Participant Data

The table below shows a summary of your plan's member data upon which this valuation is based:

	June 30, 2014	June 30, 2015
Reported Payroll	\$ 98,446	\$ 145,797
Projected Payroll for Contribution Purposes	\$ 107,575	\$ 159,316
Number of Members		
Active	1	2
Transferred	0	0
Separated	0	1
Retired	0	0

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- None

PLAN'S MAJOR BENEFIT OPTIONS

SECTION 1 – PLAN SPECIFIC INFORMATION FOR THE PEPRA MISCELLANEOUS PLAN OF THE CACHUMA OPERATION AND MAINTENANCE BOARD

Plan’s Major Benefit Options

Shown below is a summary of the major optional benefits for which your agency has contracted. A description of principal standard and optional plan provisions is in Appendix B within Section 2 of this report.

	Contract package	
Benefit Provision	Active Misc	
Benefit Formula	2.0% @ 62	
Social Security Coverage	Yes	
Full/Modified	Full	
Employee Contribution Rate	6.25%	
Final Average Compensation Period	Three Year	
Sick Leave Credit	Yes	
Non-Industrial Disability	Standard	
Industrial Disability	No	
Pre-Retirement Death Benefits		
Optional Settlement 2W	Yes	
1959 Survivor Benefit Level	No	
Special	No	
Alternate (firefighters)	No	
Post-Retirement Death Benefits		
Lump Sum	\$500	
Survivor Allowance (PRSA)	No	
COLA	2%	

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**Section 2 may be found on the CalPERS website
(www.calpers.ca.gov) in the Forms and
Publications section**

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2017
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Resolution No. 632 – Acceptance of Grant Agreement with California Department of Fish and Wildlife for Fish Passage Improvement at Quiota Creek Crossing Five

SUMMARY:

The California Department of Fish and Wildlife (CDFW) awarded COMB a CDFW Fisheries Restoration Grant Program (FRGP) Grant for the Quiota Creek Crossing 5 Fish Passage Project. The CDFW-FRGP grant is for \$893,287. This project has a Board approved COMB \$50,000 construction match. The pending project will be reflected in the Fiscal Year 2017-2018 COMB Budget. The draft Grant Agreement for the project has been received and the final agreement is expected within a week.

FINANCIAL IMPACT:

COMB has committed to a \$50,000 construction match plus COMB services and operating expenses which are our traditional cost matches.

LEGAL CONCURRENCE:

COMB legal counsel has reviewed Resolution No. 632 and the draft Grant Agreement and will review the final Grant Agreement for consistency prior to COMB signing the agreement.

ENVIRONMENTAL COMPLIANCE:

All required permits will be secured before construction of the project begins.

COMMITTEE STATUS:

The Fisheries Committee has reviewed the Quiota Creek Crossing No.5 project funding mechanism and forwards to the Board with a recommendation to accept the grant agreement through a resolution.

RECOMMENDATION:

Board Approve Resolution No.632 (Exhibit A) to enter into the CDFW-FRGP Grant Agreement No.P1650902 for the Quiota Creek Crossing Five Project. Authorize the COMB General Manager to sign the CDFW-FRGP Grant Agreement once legal counsel has reviewed the final Grant Agreement.

LIST OF EXHIBITS:

- A. Resolution No. 632.

RESOLUTION NO. 632

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CACHUMA OPERATION AND MAINTENANCE BOARD
APPROVING AN AGREEMENT WITH CALIFORNIA DEPARTMENT OF FISH AND
WILDLIFE FOR THE FISH PASSAGE IMPROVEMENT QUIOTA CREEK CROSSING
NUMBER FIVE**

RECITALS

WHEREAS, the Cachuma Operation and Maintenance Board (COMB) is a California Joint Powers Authority organized under the provisions of California Government Code Section 6500 et seq., with power to acquire, contract for improvements, own, develop, and operate facilities for projects undertaken by its Member Units; and

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

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

WHEREAS, the fish passage improvements at Crossing Number Five on Quiota Creek, a tributary to the Lower Santa Ynez River, will provide improved access to the perennial reaches of Quiota Creek and restore habitat to enhance conditions for steelhead; and

WHEREAS, the California Department of Fish and Game authorized disbursement of up to \$893,287 in grant funds (the “Grant Funds”) to COMB for removal of a passage impediment/barrier for endangered steelhead at Crossing Number Five located on Quiota Creek (the “Fish Passage Improvements” or “Project”); and

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

NOW, THEREFORE, BE IT RESOLVED:

1. The Board of Directors of COMB supports the Fish Passage Improvements on Quiota Creek Crossing Number Five and finds that they and this Project are considered essential to the steelhead restoration effort in the lower Santa Ynez River.
2. The Board of Directors of COMB approves entering into an agreement with the California Department of Fish and Wildlife for the purpose of implementing the

Project (the “Agreement”) in accordance with that Agreement.

3. The General Manager/Secretary of COMB is authorized to execute the Agreement and approve its terms and conditions on behalf of COMB, and to contract for such services as may be required to carry out the Project using the approved funds, including the Grand Funds.
4. This Resolution shall take effect immediately.

I certify that the foregoing Resolution No. 632 was adopted by a vote of the Board of Directors of COMB on May 22, 2017, as set forth below.

AYES:

NAYES:

ABSENT/ABSTAIN:

APPROVED:

President of the Board

ATTEST:

Secretary of the Board



Mission Statement:

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

May 22, 2017

General Manager Report

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

Meetings

- Cachuma Contract Steering Committee Meeting

A Cachuma Contract Steering Committee meeting was held on Wednesday, May 3, 2017. The meeting was conducted to discuss structure and process regarding the upcoming Cachuma Project Master Contract renewal. On May 2nd, the County Board of Supervisors authorized a letter be sent to the U.S. Bureau of Reclamation to request renewal of the water service contract for the Cachuma Project and initiate negotiations. The next Steering Committee meeting is scheduled for early June.

- Santa Barbara County Office of Emergency Management (OEM)

The Santa Barbara County OEM hosted a follow-up meeting on Tuesday, April 25th with the Santa Barbara Drought Action Working Group and Cal OES Director Ghilarducci to discuss all related drought issues and receive an update on recent actions that have taken place locally. Each agency that submitted assistance requests through the Proposal to the Governor's Drought Task Force provided information on the current status of their projects. While the northern portion of the state is considered to be out of the drought, it was recognized by Director Ghilarducci and Mr. Steven Moore, State Water Resource Control Board, Santa Barbara County continues to experience moderate to severe drought conditions. The actual amount of funding assistance from the state remains unknown at this time.

- Trust Fund/Renewal Fund and Betterment Fund Committee Meetings

The Cachuma Project Trust Fund/Renewal Fund (Funds Committee) meeting was held on Tuesday, May 16th. In attendance were Santa Barbara County Water Agency representatives (Funds Committee Representative), the General Manager from the Parent District (Advisory Committee Representative), and COMB staff representing the Member Agencies (Funds Committee Representative). The Bureau representative (Funds Committee) was unable to make the conference call due to unforeseen circumstances. The draft 2017 Long Term and Annual Plan was previously provided to the group for discussion and comments. Staff is in contact with the Bureau regarding the discussion that took place at the meeting. The Long-term and Annual Plan will be presented to the Board once finalized.

- Federal Emergency Management Agency (FEMA)

A program manager from FEMA will be meeting next week with operations staff to review and discuss the disaster damages sustained by the February storms and the associated required regulatory documents needed to submit a claim.

Contract Administration

- Renewal of Transfer of O & M Contract

The Bureau of Reclamation contract administration staff has tentatively scheduled a meeting to meet with COMB staff to tour the project facilities, review the water accounting process, and preliminarily review the administrative process for renewal of the Transfer of O & M contract. Staff will be developing an outline for the contract renewal process which will include input from the Member Agencies' staff and the Board for discussion, direction and planning purposes.

Operations Division Activities

- Emergency Pumping Facility (EPF)

The Contractor for the EPF has begun dismantling the barge system and preparing the critical components for storage at their facility in the event reinstallation of the system is needed in the future. HDR, the Project Engineer, will be submitting a project close-out report in the near term.

- Santa Barbara County Office of Emergency Management (OEM) Table-Top Exercise

A table-top exercise was conducted by Santa Barbara County OEM on Thursday, May 4th. COMB operations staff participated in the exercise and provided insight on conditions and operational challenges. The purpose of the exercise was to assess the ability of water agencies to share water and resources from one jurisdiction to another, and to exam the ability to provide water during an outage/shortage when domestic systems are out of service. Cal OES allocated resources and worked closely with the Santa Barbara County water purveyor participants and OEM to conduct the event.

Fisheries Division Activities

- Oak Tree Program

The Fisheries Division personnel have focused on irrigating oak trees during the past month due to the lack of spring rainfall and sheer amount of oak trees that are now in the ground. Staff has completed the field portion of the annual oak tree inventory for the Year 1-8 trees. The Year 9 trees are now being inventoried, including GPS coordinates and tree tags.

- Snorkel Surveys

Annual spring snorkel surveys within the LSYS mainstem and tributaries are well underway. Snorkeling has occurred at Salsipuedes, El Jaro and Quiota Creeks and personnel will be conducting mainstem surveys this week.

- Water Quality Monitoring

Water quality equipment has been deployed in the LSYS mainstem and tributaries as part of regular BO monitoring activities. Instrumentation is typically deployed after the threat of significant rains (late spring) to ensure the safety of equipment and to capture spring through fall water quality conditions.

- Hilton Creek flows

National Marine Fisheries Services (NMFS) has requested Reclamation to attempt to provide water to the Upper Release Point (URP) of Hilton Creek through the gravity system of the Hilton Creek Emergency Backup System (HCEBS). The Fisheries Division staff has been assisting Reclamation by monitoring flow and habitat conditions within Hilton Creek as it relates to any flow changes occurring through the HCEBS. Reclamation was successful in getting a little water to the URP with the goal of maintaining some of the upper riparian corridor of the creek. The secondary goal of getting water from the URP to the Lower Release Point (LRP) for benthic macroinvertebrate drift (food) for any *O. mykiss* in lower Hilton Creek was unsuccessful, as water from the URP has not reached the LRP.

During the next few days, divers deployed by Reclamation are scheduled to evaluate the Hilton Creek Watering System located in the lake to isolate the low pressure issue observed within that system.

Respectfully Submitted,

Janet Gingras

General Manager

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: May 22, 2017
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 April was 985.1 acre-feet, for an average daily flow of 32.83 acre-feet. Lake elevation was 714.30 feet at the beginning of the month and 715.19 feet at the end. Storage change increased 1,714 acre-feet. CCWA wheeled 634 acre-feet of water to Cachuma Project facilities.

Operation and Maintenance Activities

COMB Staff regularly performs the following duties:

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

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

- Operation of the Lake Cachuma North Portal Intake Tower and Jet Flow Valve
- Regulate and maintain flows from Lake Cachuma to meet the needs of South Coast Member Units
- Dam inspection and instrumentation reports (all reservoirs)
- Weekly Safety meetings
- Weekly Rodent Bait (all reservoirs)
- Weekly Toe Drain and Piezometer reads at Ortega (L23)
- Structure maintenance per Work Plan
- USA Dig 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:

- ✓ Emergency Action Plan Revisions – Reviewed and replaced with updated revisions in all EAP's.
- ✓ Flammable Liquid Handling – Discussed the handling and procedures of storing, transporting and use of all flammable liquids.
- ✓ Floor Openings – Identified most frequently encountered openings, the dangers they pose and procedures for protecting the public and staff.
- ✓ Vehicle Accident Report – Checked all Operations vehicles to ensure the Vehicle Accident Report Kit was available and included all necessary materials.

COMB Operations Staff specifically performed the following activities:

- Staff took part in a county wide emergency water outage table top exercise with the scenario being a seismic event, causing a 100' section of the Tecolote Tunnel to collapse, midway between the North Portal and South Portal.

Objectives set for the group were to:

- Exercise the ability of water agencies and operators to cooperate, collaborate, and physically redistribute water from one jurisdiction to another (Engineering & Distribution)
- Exercise the ability of emergency managers and public health officials to offer solutions for a critical outage and / or shortage when resources are near being depleted.
- Test existing plans
- Develop Action Plan

This month,

- On April 23rd, Staff conducted on going visual inspections (OVIC) at Glenn Annie, Lauro, Ortega and Carpinteria dams following a magnitude 3.6 earthquake 3km SSW of Montecito. No damage was found and all reports were sent to the USBR.
- On May 16th, Staff conducted on going visual inspections (OVIC) at Glenn Annie, Lauro, Ortega and Carpinteria dams following a magnitude 4.1 earthquake 13km West of Isla Vista and several . No damage was found and all reports were sent to the USBR.
- Staff has been on site monitoring a project at the Brown property on Franklin Ranch Rd. in Goleta. The project has proceeded with the completion of the trench cut and the installation of the foam has begun.
- Began the annual structure maintenance program on the southern of the section of the South Coast Conduit. Included in the program is:
 - Improve site access
 - Inspection of all air vents, blow off and turn-out structure. Checking condition of all associated equipment.
 - Exercising of all appropriate valves or apparatuses.
 - Cleaning of the structure and surrounding site.
 - Applying fresh paint and signage.
- Exercised Glenn Annie dam's ball valve to ensure that both a full open and closed position can be achieved. Inspected all associated hydraulic lines and performed regular maintenance on the system.
- Quinn Power systems were on site to perform the annual load test on the Lauro and North Portal backup generators.
- CalFIRE was on site for eight (8) work days and assisted staff in the weed abatement and brush clearing of Ortega Reservoir and Lauro Reservoir, including all surrounding security fence lines, as well as both dam faces.
- Staff cleared brush and graded the "Sand Hill" access road to improve access. The road is used by staff to access an AVAR and a Blow-Off above Glenn Annie Reservoir. After this winter's storms, the road was found to be in poor condition.
- Operations crew cleared brush along the Sheffield control station and access road to improve access.
- Staff cleaned the North Portal Intake Tower debris and fish screens, including the monthly Quagga Mussel inspection.
- Crew exercised North Portal Intake Tower slide gates.
- Performed monthly water sampling for the City of Santa Barbara.
- The Operations Division continually inspects all sites, reservoirs, and the South Coast Conduit for items to add to the IIP for future projects.

Current IIP projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation & Replacement
- North Portal Access Road
- North Portal Jet Flow Control Valve
- Lauro Tunnel Pipe Supports
- Sycamore Canyon Slope Stabilization

Brown Property

Trenching over SCC.



Foam Delivery



Brown Property

Foam Installation



South Coast Conduit

Defensible Space / SCC Right of Way Clearing



Reservoir Fence Line Clearing



Sheffield Control Station Defensible Space and Access Road



CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: May 22, 2017
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- USBR is now delivering approximately 2 cfs to Hilton Creek mostly at the Lower Release Point and trickle flow at the Upper Release Point by gravity flow through the Hilton Creek Emergency Backup System in support of the *O. mykiss* population.
- Young of the year were observed within El Jaro, Salsipuedes and Hilton creeks at several locations suggesting successful spawning this year.

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 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.

Redd Surveys: Redd surveys are conducted approximately every two weeks from mid-January through May. Surveys were initiated in February within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access was permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Plan. To date, only 3 redds have been observed in Hilton Creek and 3 redds in Salsipuedes Creek. Young of the year have now been observed in El Jaro, Salsipuedes and Hilton creeks suggesting successful spawning this winter and spring.

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

Hilton Creek Releases for the Fishery: On 3/23/17, USBR switched the flow delivery system to Hilton Creek from the small submersible pump on the south side of the Stilling Basin to gravity flow from the Hilton Creek Emergency Backup System (HCEBS). The flow rate is approximately 2.0 cfs and is being delivered mostly to the Lower Release Point (LRP) with trickle flow to the Upper Release Point (URP). The small amount of flow to the URP is designed to support the creek's riparian vegetation and benthic macro invertebrate population. Water quality conditions in Hilton Creek are being monitored at several locations.

Tributary Project Updates:

Quiota Creek Crossing 5: As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. COMB was awarded the grant and the project will hopefully be built during the fall of this year pending Board acceptance of the grant during this Board meeting. There is a separate Board memo to this regard.

Quiota Creek Crossing 8: This project and the required Cooperative Agreement with the County were discussed at the 5/4/16 Fisheries Committee meeting with approval by the Board on 5/23/16 to move forward with the project and the Cooperative Agreement. The County Board of Supervisors approved the Cooperative Agreement on 7/12/16. With a fully executed Cooperative Agreement, the County submitted a CalTrans grant application to fund the project and CalTrans approved the funding for a full bridge replacement. SBCAG approved the project on 11/17/16. A Professional Service Agreement (PSA) for COMB with the County to manage the project was approved by the Board during the 3/27/17 Board meeting and was fully executed on 5/16/17. We are now working on the Request for Authorization with Caltrans to begin grant expenditures and Requests for Proposals to hire a consultant for design, environmental and right-of-way tasks. These are expected shortly with a consultant to be secured in June of this year. A field review meeting with Caltrans is expected within the next month that will set the design criteria. Pending the above, the project would be built in the fall of 2017 or 2018.

Quiota Creek Crossing 9: Staff submitted a CDFW-FRGP grant proposal for this project on 4/26/17 as requested by the Board during their 4/24/17 meeting. The grant is for \$993,121 with a \$50,000 construction match. The announcement of grant recipients will be in the winter of 2018.

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

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

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

The HCWS and HCEBS are owned, operated and maintained by USBR. The HCEBS was completed at the end of January 2016. With this system fully operational, USBR has now been working on the identified repairs to the HCWS with no success on getting the pumping system operating. Further work on the HCWS is scheduled for 5/18/17 and 5/22/17.

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 (or if those accounts are now replenished from this winter's runoff) by NMFS and USBR hence is not reflected in Table 1. No fish water was debited to any account when water was extracted from the Stilling Basin below the dam and release to Hilton Creek during critical drought conditions.

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		15,186	
Total:	9,184	20,819	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 4/30/17.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

Reporting / Outreach / Training

Reporting: Staff continues to work on the Annual Monitoring Reports. Staff has been providing information to USBR as requested in support of Adaptive Management Committee meetings, Reconsultation, and other operational requests.

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

Consultant Activity Summary:

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

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

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 22, 2017
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 July, 2016 to the present (7/1/16 – 5/22/17, 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 2015 Annual Report and 2015 Lakeshore Survey have been completed and distributed to the COMB Board.

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

	July 2016	Aug 2016	Sept 2016	Oct 2016	Nov 2016	Dec 2016	Jan 2017*	Feb 2017*	March 2017*	April 2017*	May 2017*
Year 9 Oaks (2016-2017)								New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	Irrigated Weeded
Year 8 Oaks (2015-2016)	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Mulched		Weeded		Weeded	Irrigated Weeded
Year 7 Oaks (2014-2015)	Irrigated Weeded Mulched	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded					Weeded Mulched	
Year 6 Oaks (2010-2011)											
Year 5 Oaks (2009-2010)		Irrigated Weeded					Cage maint.				
Year 4 Oaks (2008-2009)							Cage maint.				
Year 3 Oaks (2007-2008)					Irrigated	Cage maint.					
Year 2 Oaks (2006-2007)											
Year 1 Oaks (2005-2006)	Irrigated										

* Annual Oak Tree Inventory

The annual oak tree inventory of the Year 1 through Year 8 trees began in January and was recently completed. The inventory, tree tagging and GPS mapping of newly planted (Year 9 trees) is nearly complete.

A round of irrigation and weeding of the Year 8 and Year 9 trees is currently underway, with the older age classes of trees expected to be irrigated and weeded in the coming weeks.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

N/A

CACHUMA OPERATION AND MAINTENANCE BOARD
METERED USE REPORT FOR APRIL 2017

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		134.22	18+62	G. WEST	49.40
Boundary Meter - West		(0.02)	78+00	Corona Del Mar FILTER Plant	517.63
			122+20	STOW RANCH	0.00
				Bishop Ranch (Wynmark)(Water Rights)	(100.00)
				Raytheon (SWP) (Warren Act Contract)	(3.00)
				Morehart (SWP) (Warren Act Contract)	(1.00)
				SWP CREDIT (Warren Act Contract)	(463.03)
			TOTAL		0.00
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	53.36
			386+65	MWD YARD	17.73
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	86.68
			510+95	MWD PUMP (SWD)	13.31
			510+95	ORTEGA CONTROL	3.23
			526+43	ASEGRA RD	4.01
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	1.27
				SWP CREDIT (Warren Act Contract)	(179.58)
			TOTAL		0.00
			CITY OF SANTA BARBARA		
			CATER	INFLOW	1,103.96
			Gibraltar	PENSTOCK	(464.10)
			CATER	SO. FLOW	(508.09)
			Sheffield	SHEF.LIFT	133.24
				SWP (Warren Act)	(210.20)
				La Cumbre Mutual SWP (Warren Act)	(54.81)
			TOTAL		0.00
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		2.47
			TOTAL		2.47
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		634.00
			STATE WATER TO SOUTH COAST (including from storage)		(1145.83)
			BISHOP RANCH DIVERSION		0.00
			METERED DIVERSION		2.47
			SWP CREDIT (Warren Act Contract) (134.21)		
			TOTAL		(0.00)
Note: Meter reads were taken on 5/01/2017					

16-17 ENTITLEMENT

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF APRIL 2017 AND THE WATER YEAR TO DATE**

(All in rounded Acre Feet)

	MONTH TOTAL					YTD TOTAL
WATER PRODUCTION:						
Cachuma Lake (Tec. Diversion)	985					4,999
Tecolote Tunnel Infiltration	171					648
Cachuma Lake (County Park)	2					12
State Water Diversion	1,146					4,330
Cachuma Diversion	2					1,195
So. Coast Storage gain/(loss)	(54)					2
Total Production	1,159					5,660
Total Deliveries	1,094					5,526
Unaccounted-for	65					133
% Unaccounted-for	5.61%					2.36%
	GWD	SB CITY	MWD	CVWD	SYRWCD	TOTAL
WATER USE:						
					I.D. #1	
M&I	0	0	0	0	2	2
Agricultural	0	0	0	0	0	0
	0	0	0	0	2	2
Unaccounted Reconciliation - Cachuma:						
M&I	0	0	0	0	0	0
Agriculture	0	0	0	0	0	0
Unaccounted-for: Cachuma	0	0	0	0	0	0
Unaccounted-for: SWP Report	3	21	23	17	0	65
Total Unaccounted-for:	3	21	23	17	0	65
TOTAL USE for Month	3	21	23	17	2	67
Same Mo/prev. yr	13	28	207	27	2	277
M&I Yr to date	0	1,115	291	0	12	1,418
Ag. Yr to date	0	0	54	0	0	54
TOTAL YTD	0	1,115	345	0	12	1,472
USAGE % YTD	2.2%	27%	26%	0%	1.7%	13.8%
Previous Year/YTD	1,447	1,720	791	299	6	4,263
Evaporation #	7	0	0	0	0	7
Evaporation, YTD	93	124	33	0	6	254
Allocation ***	3,729	3,311	1,060	1,125	1,060	10,285
Carryover	561	1,239	377	0	24	2,201
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
Transfers/Adjustment ****	0	0	0	0	0	0
Passthrough H2O**	0	0	0	0	0	0
TOTAL AVAILABLE	4,290	4,550	1,437	1,125	1,084	12,486
REMAINING CARRYOVER	468	0	0	0	6	475
TOTAL REMAINING BALANCE	4,197	3,311	1,060	1,125	1,066	10,760

*** Per USBR, 40% Allocation to Member Agencies, effective 4/1/17

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

State Water Deliveries to Lake Cachuma for April: MWD 144 AF; CVWD 96 AF
GWD 217 AF (Morehart 1 AF); City of S.B. 144 AF; and LaCumbre 29 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 April 2017.

Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017.

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **April 2017**

GLEN ANNIE RESERVOIR

Capacity at 385' elevation:	518	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	335.00	Feet
Water in Storage	26.79	AF

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	542.60	Feet
Water in Storage	385.14	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	447.30	Feet
Water in Storage	20.47	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	374.00	Feet
Water in Storage	21.34	AF

TOTAL STORAGE IN RESERVOIRS

Change in Storage	(54.40)	AF
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CACHUMA RESERVOIR*

Capacity at 750' elevation:	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF
Stage of Reservoir Elevation	715.19	Feet
Water in Storage	99,035	AF
Surface Area	1,957	
Evaporation	1,100.4	AF
Inflow	3,279.0	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	101.0	AF
Outlet	0.0	AF
Spill/Seismic Release	0	AF
State Water Project Water	634	AF
Change in Storage	1,734	AF
Tecolote Diversion	985.1	AF

Rainfall:	Month:	0.20	Season:	24.71	Percent of Normal:	126%
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SUMMARY: UNACCOUNTED-FOR WATER ALLOCATIONS

April 2017

	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	0.1	0.0	2.6	0.6	0.0	0.0	3.3	3
City	3.0	0.0	1.1	16.1	0.9	0.0	21.1	21
MWD	2.1	0.5	0.8	11.4	1.1	7.2	23.1	23
CVWD	1.6	0.5	0.6	8.5	0.9	5.4	17.4	17
Total	6.8	1.0	5.1	36.6	2.9	12.6	65.0	65

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

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Carpinteria Valley Water District**
 Last updated by C.O.M.B. 4/30/17

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES					WATER USED CHARGED TO CURRENT ENTITLEMENT		
			Acre-feet			Acre-feet			Allocation		Acre-feet		
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov			0	0	0	0	0	0	0	0	0	0	0
Dec			0	0	0	0	0	0	0	0	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0
Mar			0	0	0	0	0	0	0	0	0	0	0
Apr	1125		0	0	0	0	0	0	0	0	0	0	0
May			0	0	0	0	0	0	0	0	0	0	0
Jun			0	0	0	0	0	0	0	0	0	0	0
Jul			0	0	0	0	0	0	0	0	0	0	0
Aug			0	0	0	0	0	0	0	0	0	0	0
Sep			0	0	0	0	0	0	0	0	0	0	0
Total	1125	0	0	0	0	0	0	0	0	0	0	0	0

CONVERSIONS						SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS				
STORAGE WATER		CURRENT SCHEDULE		Month	Begin Bal	Total	M&I	AG	M&I	AG	Total	M&I	AG	Total
M & I	Agr	M & I	Agr											
0	0	0	0	Oct	0	0	0	0	0	0	0	0	0	0
0	0	0	0	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										1,125
0	0	0	0	May										
				Jun										
				Jul										
				Aug										
				Sep										

Month	REMAINING BALANCES			
	Total	M&I	AG	Total
Oct	0	0	0	0
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				
Jun				
Jul				
Aug				
Sep				

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

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Goleta Water District**
 Last updated by C.O.M.B. 11/30/16

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED Acre-feet			WATER USED CHARGED TO CARRYOVER BALANCES Acre-feet					WATER USED CHARGED TO CURRENT ENTITLEMENT Acre-feet		
			M & I	Agr	Total	Evap	Div	Total	Allocation		M & I	Agr	Total
									M & I	Agr			
Oct	0	561	0	0	0	37	0	37	0	37	0	0	0
Nov			0	0	0	29	0	29	0	29	0	0	0
Dec			0	0	0	9	0	9	0	9	0	0	0
Jan			0	0	0	2	0	2	0	2	0	0	0
Feb			0	0	0	5	0	5	0	5	0	0	0
Mar			0	0	0	4	0	4	0	5	0	0	0
Apr	3729		0	0	0	7	0	7	0	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							
Total	3729	561	0	0	0	93							

STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		Month
M & I	Agr	M & I	Agr	M & I	Agr	
0	0	0	0	0	0	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
						Jun
						Jul
						Aug
						Sep

SCHEDULES AND REVISIONS						
	Total	M&I	AG	M&I	AG	Total
Begin Bal	561	412	149	0	0	0
						0
						0
						0
						0
						0
Begin Bal						0
						3,729
						0
						0
						0
						0
						0
						0

Month	REMAINING BALANCES					
	Total	M&I	AG	M&I	AG	Total
Oct	524	412	112	0	0	0
Nov	495	412	83	0	0	0
Dec	486	412	74	0	0	0
Jan	484	412	72	0	0	0
Feb	479	412	67	0	0	0
Mar	475	412	62	0	0	0
Apr	468	412	62	0	0	3,729
May						
Jun						
Jul						
Aug						
Sep						

TOTAL 4,197

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

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 4/30/17

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT				
			Acre-feet			Acre-feet			Acre-feet				
			M & I	Agr	total	Evap	Div	Total	Allocation		M & I	Agr	Total
Oct	0	377	176	36	212	25	212	237	197	40	0	0	0
Nov			115	18	132	8	132	140	121	19	0	0	0
Dec			0	0	0	0	0	0	0	0	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0
Mar			0	0	0	0	0	0	0	0	0	0	0
Apr	1060		0	0	0	0	0	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	1060	377	291	54	344	33							

CONVERSIONS						SCHEDULE AND REVISIONS					
STORAGE WATER			CURRENT SCHEDULE			Total	M & I	Agr	M & I	Agr	Total
M & I	Agr		M & I	Agr	Month						
-40	40		0	0	Oct	Begin Bal	377	377	0	0	0
0	0		0	0	Nov					0	
0	0		0	0	Dec					0	
0	0		0	0	Jan					0	
0	0		0	0	Feb					0	
0	0		0	0	Mar					0	
0	0		0	0	Apr					1,060	
0	0		0	0	May					0	
					Jun					0	
					Jul					0	
					Aug					0	
					Sep					0	

REMAINING BALANCES										
Month	Total	M & I	Agr	M & I	Agr	Total				
Oct	140	121	19	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	1,060				
May										
Jun										
Jul										
Aug										
Sep										

TOTAL 1,060

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

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **City of Santa Barbara**
 Last updated by C.O.M.B. 4/30/17

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USE CHARGED TO CARRYOVER BALANCES					WATER USE CHARGED TO CURRENT ENTITLEMENT		
			Acre-feet			Acre-feet			Allocation		Acre-feet		
			M & I	Agr	total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	1239	474	0	474	81	474	555	555	0	0	0	0
Nov			393	0	393	38	393	431	431	0	0	0	0
Dec			243	0	243	5	243	248	248	0	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0
Mar			0	0	0	0	0	0	0	0	0	0	0
Apr	3311		0	0	0	0	0	0	0	0	0	0	0
May			0	0	0	0	0	0	0	0	0	0	0
Jun			0	0	0	0	0	0	0	0	0	0	0
Jul			0	0	0	0	0	0	0	0	0	0	0
Aug			0	0	0	0	0	0	0	0	0	0	0
Sep			0	0	0	0	0	0	0	0	0	0	0
Total	3311	1239	1,110	0	1,110	124							

CONVERSIONS						SCHEDULE AND REVISIONS					
STORAGE WATER			CURRENT SCHEDULE			Total	M&I	-----	M&I	-----	Total
M & I	Agr	Month	M & I	Agr	Month	Begin Bal					
0	0	Oct	0	0	Oct		1,239	1,239	0	0	
0	0	Nov	0	0	Nov					0	
0	0	Dec	0	0	Dec					0	
0	0	Jan	0	0	Jan					0	
0	0	Feb	0	0	Feb					0	
0	0	Mar	0	0	Mar					0	
0	0	Apr	0	0	Apr					3,311	
		May			May					0	
		Jun			Jun					0	
		Jul			Jul					0	
		Aug			Aug					0	
		Sep			Sep					0	

REMAINING BALANCES						
Month	Total	M&I	-----	M&I	-----	Total
Oct	684	684	0	0	0	0
Nov	253	253	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	3,311
May						
Jun						
Jul						
Aug						
Sep						

TOTAL 3,311

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

Contract Year: 10/1/16 to: 9/30/17

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**
 Last updated by C.O.M.B. 4/30/17

Month	Approved Schedule		TOTAL WATER USED Acre-feet	WATER USE CHARGED TO CARRYOVER BALANCES Acre-feet						WATER USE CHARGED TO CURRENT ENTITLEMENT Acre-feet		
	Current Year	Previous Year		Evap			Div			Agr		
				M & I	Agr	Total	M & I	Agr	Total	M & I	Agr	Total
Oct	0	24	2	0	2	2	3	3	0	0	0	0
Nov			2	0	2	1	3	3	0	0	0	0
Dec			3	0	3	1	4	4	0	0	0	0
Jan			1	0	1	1	2	2	0	0	0	0
Feb			1	0	1	1	2	2	0	0	0	0
Mar			2	0	2	1	3	3	0	0	0	0
Apr	1060		2	0	2	0	2	0	0	0	0	0
May			0	0	0	0	0					
Jun			0	0	0	0	0					
Jul			0	0	0	0	0					
Aug			0	0	0	0	0					
Sep			0	0	0	0	0					
Total	1060	24	12	0	12	7						

CONVERSIONS

STORAGE WATER		CURRENT SCHEDULE		Month
M & I	Agr	M & I	Agr	
0	0	0	0	Oct
0	0	0	0	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

SCHEDULE AND REVISIONS

	Total	M & I	Agr	M & I	Agr	Total
Begin Bal	24	24	0	0	0	0
Oct						0
Nov						0
Dec						0
Jan						0
Feb						0
Mar						0
Apr						1,060
May						0
Jun						0
Jul						0
Aug						0
Sep						0

COUNTY PARKS

Month	A.F. Used	Total	M & I	Agr	M & I	Agr	Total
Oct	1.72	21	21	0	0	0	0
Nov	1.72	18	18	0	0	0	0
Dec	2.60	14	14	0	0	0	0
Jan	0.93	12	12	0	0	0	0
Feb	0.90	10	10	0	0	0	0
Mar	1.56	8	7	0	0	0	0
Apr	2.47	5	7	0	0	0	1,060
May							
Jun							
Jul							
Aug							
Sep							

TOTAL 1,066



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



**Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: April 2017**

Cachuma Lake Recreation Area Launch Data -- April 2017		
Inspection Data		
Total Vessels entering Park	174	
Total Vessels launched	315	
Total Vessels Quarantined	24	14%
Returning with Boat Launch Tag	233	74%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	82	26%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	24	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	24	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	3	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	24	
Demographic Data		
Quarantined from infected county	3	
Quarantined from SB County	17	
Quarantined from uninfected co	4	

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: 2017.04.28; 11:00 – 1:00 PDT
 Method: 5 PVC/Cement Sampling Stations; 54 linear feet of line
 Surveyors: John Viggianelli and Kristin Loft
 Lake elevation: Max feet: 753.00, current: 715.14; Max acre-feet: 193,305, current: 98,936;
 Current capacity: 51.20%