

REGULAR MEETING
OF
CACHUMA OPERATION AND MAINTENANCE BOARD

held at

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Monday, February 27, 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 January 23, 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:
 - Special Operations Committee Meeting – February 22, 2017
5. LAKE CACHUMA: EMERGENCY PUMPING FACILITY (EPF) PROJECT
For information, discussion and possible action by motion and roll call vote of the Board
6. RESOLUTION NO. 629 SUPPORTING SANTA BARBARA COUNTY'S PROPOSAL TO THE GOVERNOR'S DROUGHT TASK FORCE
For information and possible action by motion and roll call vote of the Board
7. INFORMATION ON THE DEVELOPMENT OF A COMMUNITY WILDFIRE PROTECTION PLAN FOR SAN MARCOS PASS AND EASTERN GOLETA VALLEY MOUNTAINOUS AREAS
Receive information regarding the development of a Community Wildfire Protection Plan for San Marcos Pass and Eastern Goleta Valley Mountainous Areas
8. QUIOTA CREEK CROSSING 4 FISH PASSAGE IMPROVEMENT PROJECT - FINAL REPORT
Receive information regarding Quiota Creek Crossing 4 Fish Passage Improvement Project

9. GENERAL MANAGER'S REPORT

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

- Administration
- Personnel
- Financial
- 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 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:

- Cachuma Water Reports
- Cachuma Reservoir Current Conditions
- 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 Assessment for Certain Fisheries Related Activities
- b. [Government Code Section 54956.9(d)(2)]
Name of matter: Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision

16. RECONVENE INTO OPEN SESSION

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

- a. Protest of Member Agency re: Payment of Assessment for Certain Fisheries Related Activities
- b. Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision

17. MEETING SCHEDULE

- March 27, 2017 at 2:00 P.M., COMB Office
- Board Packages Available on COMB Website: www.cachuma-board.org

18. COMB ADJOURNMENT

NOTICE TO PUBLIC

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

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

Public Comment: Any member of the public may address the Board on any subject within the jurisdiction of the Board 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, January 23, 2017

1. Call to Order, Roll Call

The meeting was called to order at 2:02 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, Dave Stewart, Tim Robinson, Jacqueline Kern, Adriane Passani, William Carter, Dan Ellison, Gary Kvistad, Phil Walker, Fray Crease, Kelley Dyer

2. Public Comment

Mr. Phil Walker expressed concerns regarding drainage systems, carry-over and purchased water. Director Morgan addressed these concerns stating with a 7-day dry weather forecast it would be unlikely that a spill level is reached.

3. Consent Agenda

- a. **Minutes**
December 19, 2016 Regular Board Meeting
- b. **Investment Funds**
Financial Reports
Investment Reports
- c. **Review of Paid Claims**

Director Holcombe moved to approve the consent agenda as presented, seconded by Director White, which carried 6/0/1 as follows:

Ayes: Morgan, Holcombe, Hanson, White

Nays: None

Absent/Abstain: Walsh

4. Verbal Reports From Board Committees

Oak Tree Committee Meeting – January 12, 2017

Director White confirmed Committee recommends collaborating with County Parks and plant between 200-400 trees. Director White complemented the effort on the annual report and applauds the 85% success tree survival rate.

Fisheries Committee Meeting – January 13, 2017

Director Holcombe confirmed Committee reviewed change order No. 2 request and recommends Board approval.

5. Proposed Resolutions

- a. Resolution No. 624 Authorizing Signatories for General Fund Account at American Riviera Bank
- b. Resolution No. 625 Authorizing Signatories for Revolving Fund Account at American Riviera Bank
- c. Resolution No. 626 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at American Riviera Bank
- d. Resolution No. 627 Authorizing Investment of Monies in the Local Agency Investment Fund
- e. Resolution No. 628 Establishing a Supplemental Account Agreement for Telephone Transfers

Ms. Janet Gingras, General Manager, noted that due to the hiring of Mr. Edward Lyons, Administrative Manager/CFO, these bank account resolutions will add and authorize Mr. Lyons as signatory on the accounts.

Director Morgan moved a motion to approve all resolutions (No.'s 624-628) as presented, seconded by Director Hanson, which carried 6/0/01 as follows:

Ayes: Hanson, Holcombe, Morgan, White

Nays: None

Absent/Abstain: Walsh

6. Lake Cachuma: Emergency Pumping Facility (EPF) Project

Mr. Dan Ellison, HDR Engineering, Inc., presented the Emergency Pumping Facility (EPF) Project. He noted alternatives for long-term pump station operations; advantages and disadvantages of each and stated the information had been introduced to Member Unit General Managers. The decision matrix was reviewed and possible options were discussed. Mr. Ellison noted the pumping facility, approved by the Board, will most likely be required one or two more times in the next 50 years.

Director Holcombe requested a demand forecast from all Member Units be presented to the Board; Director Hanson echoed these requests. Ms. Gingras offered to gather this information. Director Holcombe suggested all General Managers and Board Directors meet to discuss alternatives; making this decision together.

Director Morgan inquired when a timeline would be complete. Mr. Ellison estimated to have the reports ready for staff review by the end of February.

Director Holcombe inquired about operational decisions being made regarding the barge, to which Ms. Gingras noted the Board will be informed of changes made. Director Morgan requested a Special Board Meeting be arranged to discuss this issue. Mr. Robinson noted decisions for January will differ from those in Feb/Mar, and a forecast is needed for next week and further out to decide. Ms. Kelley Dyer, City of Santa Barbara, agreed with Mr. Robinson's comment and would also like to see a forecast of predicted lake levels through summer. Ms. Dyer asked for clarification of when the electrical station would need to be moved, to which Mr. Ellison stated when the lake reached a level of 730'.

Director Morgan requested timeline reports be completed by end of February. Ms. Gingras noted updates will be coming and forecasts will be included. The Directors requested to remain in the loop and to hold a special meeting with COMB Board, technical staff and Member Unit Managers, to which Ms. Gingras noted could be arranged.

7. Fiscal Year 2015-16 Unexpended Funds

Ms. Gingras presented the fiscal year 2015-16 report to the Board and stated items included as unexpended were outlined in the matrix. Ms. Gingras noted the Administrative Committee recommended designating partial carry-over funds to remain with affiliated projects and returning the remaining monies to the member agencies as a constructive return.

Director Hanson moved to accept and approve the FY 15-16 Unexpended Funds as presented, seconded by Director Holcombe, which carried 6/0/1 as follows:

Ayes: Hanson, Holcombe, Morgan, White

Nays: None

Absent/Abstain: Walsh

8. Fish Passage Improvement Project – Quiota Creek Crossing 0A Update and Change Order Request

Mr. Robinson reviewed Crossing 0A and reported it was successfully completed on December 15, 2016, and was under budget. Mr. Robinson estimated the final report will be presented at the February Board meeting. Mr. Robinson reviewed details of Change Order No. 2 request and noted the Fisheries Committee recommended for Board approval.

Director Holcombe moved to approve Change Order 2 as presented, seconded by Director Morgan, which carried 6/0/1 as follows:

Ayes: Hanson, Holcombe, Morgan, White

Nays: None

Absent/Abstain: Walsh

9. General Manager Report

- Meetings
- Operations Division Activities
- Fisheries Division Activities

Ms. Gingras reviewed topics within her report, provided updates on current and ongoing projects, and offered to field questions from the Board. She noted the Regional Drought Task Force will review final issue papers for submission to the State for potential funding through the Governor's office. Director Morgan inquired as to what our contribution was, to which Ms. Gingras stated the Secured Pipeline Project Part 1.

Director Holcombe asked about the drought emergency meeting and its expectations. Ms. Gingras explained the financial matrix and action plan is projected to be completed by the end of January and the intention is to take a resolution of support to all Boards and Councils for approval. Ms. Dyer stated that Santa Barbara Co. is the last two percent in the state that remains in an exceptional drought.

10. Operations Division Report

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Dave Stewart, Operations Division Manager, gave a summary of the division's tasks and objectives for the month and addressed questions from the Board. The Lauro Diversion valve installation is currently scheduled for February 14, 2017. Mr. Stewart stated the Member Agencies have been informed of the shut-down date.

11. Fisheries Division Report

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

Mr. Robinson reviewed highlighted topics within his report, provided updates on current and ongoing projects and topic of interest, and offered to field questions from the Board. Director White inquired about the pumps attached to the tank and where we stand with the Bureau, to which Mr. Robinson responded the Bureau had not moved forward with that project to date.

12. Progress Report on Lake Cachuma Oak Tree Program

- Maintenance and Monitoring

Mr. Robinson reviewed topics within his report, provided updates on ongoing projects, and offered to field questions from the Board. He delivered an overview of the annual report, as provided in the board packet, and highlighted the Oak Tree program's success rate. Actual costs since the start of the program were reviewed. Mr. Robinson stated the Committee's idea is to plant between 200-400 trees this season; this will help COMB meet our goal.

Director Morgan inquired as to the maintenance costs, to which Mr. Robinson noted the information is included in the board packet.

Director White suggested planting near Live Oak area, to which Mr. Robinson projects this will happen in the future. Director White requested a one paragraph executive summary be inserted into the annual report stating the purpose and progress of the program.

13. Monthly Cachuma Project Reports

Ms. Gingras reviewed the water reports, as included in the board packet. She noted that the City of SB, Montecito, Carpinteria and ID1 have diminished their carry-over water supplies.

Director White requested visuals on what lake levels look like; convert acre feet into elevation. Ms. Gingras offered to follow up.

14. Directors' Requests for Agenda Items for Future Meeting

Director Holcombe requested a schedule of COMB's budget process. No further requests were made.

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

The Board went into closed session at 4:36 p.m.

- a. [Government Code Section 54956.9(d)(4)]
Name of matter: Protest of Member Agency re: Payment of Assessment for Certain Fisheries Related Activities
- b. [Government Code Section 54956.9(d)(2)]
Name of matter: Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision

16. Reconvene into Open Session

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

- a. Protest of Member Agency re: Payment of Assessment for Certain Fisheries Related Activities
- b. Alleged Access Rights to Ortega Ridge Road, Ocean View Estates Subdivision

The Board came out of closed session at 5:15 p.m.

There were no reportable actions.

17. Meeting Schedule

- February 27, 2017 at 2:00 P.M., COMB Office
- Board Packages Available on COMB Website www.cachuma-board.org

18. COMB Adjournment

There being no further business, the meeting adjourned at 5:16 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 January 31, 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

220,445.19

1100 · REVOLVING FUND

86,053.99

Total Checking/Savings

1,265,456.31

Accounts Receivable

1320 · Qrtly Assessments Receivable

851,798.00

1325 · Bank Loan Receivable - EPFP

25,395.46

Total Accounts Receivable

877,193.46

Other Current Assets

1010 · PETTY CASH

500.00

1200 · LAIF

1,065,416.43

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

1,304,054.15

Total Current Assets

3,446,703.92

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

9,781,432.29

COMB
Statement of Net Assets

As of January 31, 2017
UNAUDITED FINANCIALS

LIABILITIES & NET ASSETS

Liabilities

Current Liabilities

Accounts Payable

2200 · ACCOUNTS PAYABLE

36,985.15

Total Accounts Payable

36,985.15

Other Current Liabilities

Payroll-DepPrm Admin

140.00

Payroll-DepPrm FD

4.62

Payroll-DepPrm Ops

544.00

Payroll-Other Deductions

24.00

Payroll-PERS EE Admin

144.30

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

958,957.13

Total Other Current Liabilities

1,897,034.05

Total Current Liabilities

1,934,019.20

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

1,462,675.32

2610 · Net Pension Liability (GASB 68)

1,160,030.00

2611 · Deferred Inflows of Resources (GASB 68)

224,052.00

Total Long Term Liabilities

9,734,903.39

Total Liabilities

11,668,922.59

NET POSITION

3000 · Opening Bal Equity

-1,357,356.05

3901 · Retained Net Assets

-631,271.21

Net Income

101,136.96

Total Net Assets

-1,887,490.30

TOTAL LIABILITIES & NET POSITION

9,781,432.29

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

	Fisheries			Operations			TOTAL		
	Jul '16 - Jan 17	Budget	% of Budget	Jul '16 - Jan 17	Budget	% of Budget	Jul '16 - Jan 17	Budget	% of Budget
Income									
3000 REVENUE									
3001 · O&M Budget (Qtrly Assessments)	819,411.00	1,305,904.00	62.75%	2,818,522.03	4,417,789.00	-1,599,266.97	63.8%	3,637,933.03	5,723,693.00
3006 · Warren Act	0.00	238,306.00	0.0%	0.00	0.00			0.00	238,306.00
3007 · Renewal Fund	0.00	52,872.00	0.0%	0.00	0.00			0.00	52,872.00
3009 · Pmts - Member Agencies - EPPF	0.00	0.00		637,104.25	0.00			637,104.25	0.00
3010 · Interest Income	0.00	0.00		5,305.08	0.00			5,305.08	0.00
3015 · Watershed Sanitary Survey	0.00	0.00		7,258.99	0.00			7,258.99	0.00
3020 · Misc Income	0.00	0.00		200.00	0.00			200.00	0.00
3033 · Grant-QC Crossing # 0 (a&b)	0.00	671,635.00	0.0%	0.00	0.00			0.00	671,635.00
3034 · Grant-QC Crossing #4	0.00	938,295.00	0.0%	0.00	0.00			0.00	938,295.00
3035 · Cachuma Project Betterment Fund	77,517.78	90,000.00	86.13%	0.00	0.00			77,517.78	90,000.00
3036 · Landowner Match-QC Crossing 0a	50,000.00	0.00		0.00	0.00			50,000.00	0.00
Total 3000 REVENUE	946,928.78	3,297,012.00	28.72%	3,468,390.35	4,417,789.00	-949,398.65	78.51%	4,415,319.13	7,714,801.00
Total Income	946,928.78	3,297,012.00	28.72%	3,468,390.35	4,417,789.00	-949,398.65	78.51%	4,415,319.13	7,714,801.00
Gross Profit	946,928.78	3,297,012.00	28.72%	3,468,390.35	4,417,789.00	-949,398.65	78.51%	4,415,319.13	7,714,801.00
Expense									
PAYROLL									
Gross	0.00	0.00		0.03	0.00			0.03	0.00
Gross-FD	-0.02	0.00		0.00	0.00			-0.02	0.00
Total PAYROLL	-0.02	0.00		0.03	0.00			0.01	0.00
3100 · LABOR - OPERATIONS	0.00	0.00		384,315.35	812,375.00	-428,059.65	47.31%	384,315.35	812,375.00
3200 VEH & EQUIPMENT	0.00	0.00		26,525.53	30,000.00	-3,474.47	88.42%	26,525.53	30,000.00
3201 · Vehicle/Equip Mtc	0.00	0.00		3,048.74	15,000.00	-11,951.26	20.33%	3,048.74	15,000.00
3202 · Fixed Capital	0.00	0.00		798.53	5,000.00	-4,201.47	15.97%	798.53	5,000.00
3203 · Equipment Rental	0.00	0.00		2,868.98	5,000.00	-2,131.02	57.38%	2,868.98	5,000.00
3204 · Miscellaneous	0.00	0.00		33,241.78	55,000.00	-21,758.22	60.44%	33,241.78	55,000.00
Total 3200 VEH & EQUIPMENT	0.00	0.00		384,315.35	812,375.00	-428,059.65	47.31%	384,315.35	812,375.00
3300 · CONTRACT LABOR	0.00	0.00		24,980.84	20,000.00	4,980.84	124.9%	24,980.84	20,000.00
3301 · Conduit, Meter, Valve & Misc	0.00	0.00		26,456.60	27,257.00	-800.40	97.06%	26,456.60	27,257.00
3302 · Buildings & Roads	0.00	0.00		0.00	-7,257.00	7,257.00	0.0%	0.00	-7,257.00
3302-1 · UF FY 15/16 Ortega Underdrain	0.00	0.00		45,153.99	87,983.00	-42,829.01	51.32%	45,153.99	87,983.00
3303 · Reservoirs	0.00	0.00		0.00	-57,983.00	57,983.00	0.0%	0.00	-57,983.00
3303-1 · UF FY-15/16 Ortega Underdrain	0.00	0.00		21,741.57	25,000.00	-3,258.43	86.97%	21,741.57	25,000.00
3304 · Engineering, Misc Services	0.00	0.00		118,333.00	95,000.00	23,333.00	124.56%	118,333.00	95,000.00
Total 3300 · CONTRACT LABOR	0.00	0.00		118,333.00	95,000.00	23,333.00	124.56%	118,333.00	95,000.00
3400 · MATERIALS & SUPPLIES	0.00	0.00		1,325.64	65,000.00	-63,674.36	2.04%	1,325.64	65,000.00
3401 · Conduit, Meter, Valve & Misc	0.00	0.00		2,332.05	15,000.00	-12,667.95	15.55%	2,332.05	15,000.00
3402 · Buildings & Roads	0.00	0.00		1,652.07	10,000.00	-8,347.93	16.52%	1,652.07	10,000.00
3403 · Reservoirs	0.00	0.00		5,309.76	90,000.00	-84,690.24	5.9%	5,309.76	90,000.00
Total 3400 · MATERIALS & SUPPLIES	0.00	0.00		5,309.76	90,000.00	-84,690.24	5.9%	5,309.76	90,000.00
3500 · OTHER EXPENSES	0.00	0.00		4,318.77	7,000.00	-2,681.23	61.7%	4,318.77	7,000.00
3501 · Utilities	0.00	0.00		696.84	5,000.00	-4,303.16	13.94%	696.84	5,000.00
3502 · Uniforms	0.00	0.00		10,454.95	18,000.00	-7,545.05	58.08%	10,454.95	18,000.00
3503 · Communications	0.00	0.00		848.12	4,000.00	-3,151.88	21.2%	848.12	4,000.00
3504 · USA & Other Services	0.00	0.00							

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

	Fisheries			Operations			TOTAL		
	Jul '16 - Jan 17	\$ Over Budget	% of Budget	Jul '16 - Jan 17	\$ Over Budget	% of Budget	Jul '16 - Jan 17	\$ Over Budget	% of Budget
3505 · Miscellaneous	0.00			3,939.30	-4,060.70	49.24%	3,939.30	-4,060.70	49.24%
3506 · Training	0.00			1,350.76	-1,649.24	45.03%	1,350.76	-1,649.24	45.03%
Total 3500 · OTHER EXPENSES	0.00			21,608.74	-23,391.26	48.02%	21,608.74	-23,391.26	48.02%
4000 · Reconciliation Discrepancies	0.00			0.17			0.17	0.17	100.0%
4100 · LABOR - FISHERIES	378,743.47	-244,375.53	60.78%	0.00			378,743.47	-244,375.53	60.78%
4200 · VEHICLES & EQUIP - FISHERIES									
4270 · Vehicle/Equip Mtce	12,163.80	-836.20	93.57%	0.00			12,163.80	-836.20	93.57%
4280 · Fixed Capital	0.00	-15,000.00	0.0%	0.00			0.00	-15,000.00	0.0%
4290 · Miscellaneous	4,050.59	1,550.59	162.02%	0.00			4,050.59	1,550.59	162.02%
Total 4200 · VEHICLES & EQUIP - FISHERIES	16,214.39	-14,285.61	53.16%	0.00			16,214.39	-14,285.61	53.16%
4220 · CONTRACT LABOR - FISHERIES									
4221 · Meters & Valves	0.00	-3,000.00	0.0%	0.00			0.00	-3,000.00	0.0%
4222 · Fish Projects Maintenance	7,295.66	-17,704.34	29.18%	0.00			7,295.66	-17,704.34	29.18%
Total 4220 · CONTRACT LABOR - FISHERIES	7,295.66	-20,704.34	26.06%	0.00			7,295.66	-20,704.34	26.06%
4300 · MATERIALS/SUPPLIES - FISHERIES									
4390 · Miscellaneous	1,583.77	-5,416.23	22.63%	0.00			1,583.77	-5,416.23	22.63%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	1,583.77	-5,416.23	22.63%	0.00			1,583.77	-5,416.23	22.63%
4500 · OTHER EXPENSES - FISHERIES									
4502 · Uniforms	627.79	-1,872.21	25.11%	0.00			627.79	-1,872.21	25.11%
Total 4500 · OTHER EXPENSES - FISHERIES	627.79	-1,872.21	25.11%	0.00			627.79	-1,872.21	25.11%
4999 · GENERAL & ADMINISTRATIVE									
5000 · Director Fees									
5001 · Director Mileage	0.00			337.11	-1,662.89	16.86%	337.11	-1,662.89	16.86%
5000 · Director Fees - Other	0.00			4,825.60	-6,174.40	43.87%	4,825.60	-6,174.40	43.87%
Total 5000 · Director Fees	0.00			5,162.71	-7,837.29	39.71%	5,162.71	-7,837.29	39.71%
5100 · Legal									
5101-1 · Audit	0.00			35,457.95	-39,542.05	47.28%	35,457.95	-39,542.05	47.28%
5150 · Unemployment Tax	0.00			13,891.15	-6,108.85	69.46%	13,891.15	-6,108.85	69.46%
5200 · Liability Insurance	0.00			0.00	-5,000.00	0.0%	0.00	-5,000.00	0.0%
5310 · Postage/Office Exp	0.00			40,384.50	-5,570.50	87.88%	40,384.50	-5,570.50	87.88%
5311 · Office Equip/Leases	0.00			4,713.03	-286.97	94.26%	4,713.03	-286.97	94.26%
5312 · Misc Admin Expenses	0.00			4,780.28	-3,219.72	59.75%	4,780.28	-3,219.72	59.75%
5313 · Communications	0.00			10,015.65	2,865.65	140.08%	10,015.65	2,865.65	140.08%
5314 · Utilities	0.00			5,002.25	-3,497.75	58.85%	5,002.25	-3,497.75	58.85%
5315 · Membership Dues	0.00			52,345.7	-4,502.43	53.76%	52,345.7	-4,502.43	53.76%
5316 · Admin Fixed Assets	0.00			8,009.97	9.97	100.13%	8,009.97	9.97	100.13%
5317 · Admin Contract Labor AAIL	0.00			1,743.70	-1,256.30	58.12%	1,743.70	-1,256.30	58.12%
5318 · Computer Consultant	0.00			12,750.78	-9,249.22	57.96%	12,750.78	-9,249.22	57.96%
5325 · Emp Training/Subscriptions	0.00			6,883.10	-8,116.90	45.89%	6,883.10	-8,116.90	45.89%
5330 · Admin Travel/Conferences	0.00			1,161.06	-838.94	58.05%	1,161.06	-838.94	58.05%
5331 · Public Information	0.00			873.91	-1,126.09	43.7%	873.91	-1,126.09	43.7%
5391 · Admin Contract Labor AA I	0.00			24.69	-975.31	2.47%	24.69	-975.31	2.47%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00			6,406.51	-13,193.49	32.69%	6,406.51	-13,193.49	32.69%
5299 · ADMIN LABOR									
5400 · GENERAL & ADMIN - FISHERIES	0.00			269,397.47	-214,824.53	55.64%	269,397.47	-214,824.53	55.64%
5407 · Legal - FD	6,741.30	-13,258.70	33.71%	0.00			6,741.30	-13,258.70	33.71%

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

	Fisheries			Operations			TOTAL		
	Jul '16 - Jan 17	Budget	% of Budget	Jul '16 - Jan 17	Budget	% of Budget	Jul '16 - Jan 17	Budget	% of Budget
5410 · Postage / Office Supplies	2,805.58	2,000.00	140.28%	0.00	0.00	0.00%	2,805.58	2,000.00	140.28%
5411 · Office Equipment / Leases	2,573.93	5,218.00	49.33%	0.00	0.00	0.00%	2,573.93	5,218.00	49.33%
5412 · Misc. Admin Expense	3,188.16	4,870.00	65.47%	0.00	0.00	0.00%	3,188.16	4,870.00	65.47%
5413 · Communications	3,074.27	4,305.00	71.41%	0.00	0.00	0.00%	3,074.27	4,305.00	71.41%
5414 · Utilities	2,818.59	5,243.00	53.76%	0.00	0.00	0.00%	2,818.59	5,243.00	53.76%
5415 · Membership Dues	4,277.65	4,000.00	106.94%	0.00	0.00	0.00%	4,277.65	4,000.00	106.94%
5416 · Admin Fixed Assets	938.92	3,000.00	31.3%	0.00	0.00	0.00%	938.92	3,000.00	31.3%
5417 · Admin Contract Labor AAI	6,865.81	12,000.00	57.22%	0.00	0.00	0.00%	6,865.81	12,000.00	57.22%
5418 · Computer Consultant	3,706.28	5,000.00	74.13%	0.00	0.00	0.00%	3,706.28	5,000.00	74.13%
5425 · Employee Education/Subscription	1,158.47	2,500.00	46.34%	0.00	0.00	0.00%	1,158.47	2,500.00	46.34%
5426 · Director Fees	2,598.40	6,000.00	43.31%	0.00	0.00	0.00%	2,598.40	6,000.00	43.31%
5427 · Director Mileage	181.50	1,000.00	18.15%	0.00	0.00	0.00%	181.50	1,000.00	18.15%
5430 · Travel	337.59	2,500.00	13.5%	0.00	0.00	0.00%	337.59	2,500.00	13.5%
5431 · Public Information	513.30	1,500.00	34.22%	0.00	0.00	0.00%	513.30	1,500.00	34.22%
5441 · Audit	7,479.85	6,300.00	118.73%	0.00	0.00	0.00%	7,479.85	6,300.00	118.73%
5443 · Liab & Property Ins	21,745.50	24,745.00	87.88%	0.00	0.00	0.00%	21,745.50	24,745.00	87.88%
5491 · Admin Contract Labor AA I	3,449.65	10,600.00	32.54%	0.00	0.00	0.00%	3,449.65	10,600.00	32.54%
Total 5400 · GENERAL & ADMIN - FISHERIES	74,454.75	120,781.00	61.64%	0.00	0.00	0.00%	74,454.75	120,781.00	61.64%
5499 · ADMIN LABOR-FISHERIES	101,323.38	202,112.00	50.13%	0.00	0.00	0.00%	101,323.38	202,112.00	50.13%
5510 · Integrated Labor - Water Mgt Plan	0.00	0.00	0.00%	0.00	0.00	0.00%	0.00	0.00	0.00%
6000 · SPECIAL PROJECTS	0.00	5,000.00	26.86%	1,343.00	5,000.00	26.86%	1,343.00	5,000.00	26.86%
6062 · SCADA	0.00	20,000.00	9.75%	1,949.96	20,000.00	9.75%	1,949.96	20,000.00	9.75%
6090 · COMB Office Building	0.00	150,000.00	0.0%	0.00	150,000.00	0.0%	0.00	150,000.00	0.0%
6096 · SCC Structure Rehabilitation	0.00	240,000.00	0.0%	0.00	240,000.00	0.0%	0.00	240,000.00	0.0%
6097 · GIS and Mapping	0.00	10,000.00	48.47%	4,847.00	10,000.00	48.47%	4,847.00	10,000.00	48.47%
6100 · Watershed Sanitary Survey	0.00	35,481.20	100.0%	35,481.20	35,481.20	100.0%	35,481.20	35,481.20	100.0%
6100-1a · Watershed Sanitary Survey-C/O	0.00	-35,481.20	0.0%	0.00	-35,481.20	0.0%	0.00	-35,481.20	0.0%
6105 · ROW Management Program	0.00	20,000.00	7.2%	1,440.00	20,000.00	7.2%	1,440.00	20,000.00	7.2%
6109 · NP Jet Flow Control Valve	0.00	50,000.00	0.0%	0.00	50,000.00	0.0%	0.00	50,000.00	0.0%
6111 · Mission Crk Pipe Temp Repair	0.00	50,000.00	0.0%	0.00	50,000.00	0.0%	0.00	50,000.00	0.0%
6118 · Repair Lateral 3 Structure	0.00	18,804.25	18.8%	18,804.25	18,804.25	18.8%	18,804.25	18,804.25	18.8%
6120 · Emergency Pumping Fac Project	0.00	2,160,374.00	44.19%	954,558.52	2,160,374.00	44.19%	954,558.52	2,160,374.00	44.19%
6120-1 · EPPF UF FY 2015-16	0.00	-314,124.00	0.0%	0.00	-314,124.00	0.0%	0.00	-314,124.00	0.0%
6130 · NP Slope Stabilization	0.00	82,668.20	10.86%	8,973.75	82,668.20	10.86%	8,973.75	82,668.20	10.86%
6130-1 · NP Slope Stabil C/O Funds FY 16	0.00	-82,668.20	0.0%	0.00	-82,668.20	0.0%	0.00	-82,668.20	0.0%
6131 · Lauro Diversion Valve Install	0.00	75,000.00	0.0%	0.00	75,000.00	0.0%	0.00	75,000.00	0.0%
Total 6000 · SPECIAL PROJECTS	0.00	2,561,250.00	40.06%	1,026,054.68	2,561,250.00	40.06%	1,026,054.68	2,561,250.00	40.06%
6200 · FISHERIES ACTIVITIES	2,630.49	58,800.00	4.47%	0.00	58,800.00	4.47%	2,630.49	58,800.00	4.47%
6201 · FMP Implementation	3,047.00	10,000.00	30.47%	0.00	10,000.00	30.47%	3,047.00	10,000.00	30.47%
6203 · Grants Technical Support	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.00	0.0%
6204 · SVR Hydrology Technical Support	0.00	8,000.00	0.0%	0.00	8,000.00	0.0%	0.00	8,000.00	0.0%
6205 · USGS Stream Gauge Program	39,050.00	77,000.00	50.71%	0.00	77,000.00	50.71%	39,050.00	77,000.00	50.71%
6206 · Tri County Fish Team Funding	0.00	5,000.00	0.0%	0.00	5,000.00	0.0%	0.00	5,000.00	0.0%
6207 · Oak Tree Restoration Program	2,804.05	80,000.00	3.51%	0.00	80,000.00	3.51%	2,804.05	80,000.00	3.51%
Total 6200 · FISHERIES ACTIVITIES	47,531.54	238,800.00	19.9%	0.00	238,800.00	19.9%	47,531.54	238,800.00	19.9%
6300 · HABITAT ENHANCEMENT	8,427.45	20,000.00	42.14%	0.00	20,000.00	42.14%	8,427.45	20,000.00	42.14%
6303 · Tributary Projects Support	579,851.56	840,000.00	69.03%	0.00	840,000.00	69.03%	579,851.56	840,000.00	69.03%
6312 · Quiota Creek Crossing 0 (a&b)	527.00	0.00	91.15%	0.00	0.00	91.15%	527.00	0.00	91.15%
6313 · Quiota Creek Crossing 3	1,020,843.58	1,120,000.00	28.8%	0.00	1,120,000.00	28.8%	1,020,843.58	1,120,000.00	28.8%
6314 · Quiota Creek Crossing 4	6,970.00	24,200.00	17.23%	0.00	24,200.00	17.23%	6,970.00	24,200.00	17.23%
6315 · Quiota Creek Crossing 8									

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

	Fisheries			Operations			TOTAL					
	Jul '16 - Jan 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Jan 17	Budget	\$ Over Budget	% of Budget	Jul '16 - Jan 17	Budget	\$ Over Budget	% of Budget
6316 · Quiota Creek Crossing 5	7,256.11	30,000.00	-22,743.89	24.19%	0.00	0.00			7,256.11	30,000.00	-22,743.89	24.19%
6317 · Salsipuedes Fish Ladder Repair	225.52	10,000.00	-9,774.48	2.26%	0.00				225.52	10,000.00	-9,774.48	2.26%
Total 6300 · HABITAT ENHANCEMENT	1,624,101.22	2,044,200.00	-420,098.78	79.45%	0.00	0.00			1,624,101.22	2,044,200.00	-420,098.78	79.45%
7007 · INTEREST EXPENSE-EPFF	0.00				40,206.43				40,206.43	0.00	40,206.43	100.0%
Total Expense	2,251,875.95	3,297,012.00	-1,045,136.05	68.3%	2,062,306.22	4,417,789.00	-2,355,482.78	46.68%	4,314,182.17	7,714,801.00	-3,400,618.83	55.92%
Net Income	-1,304,947.17	0.00	-1,304,947.17	100.0%	1,406,084.13	0.00	1,406,084.13	100.0%	101,136.96	0.00	101,136.96	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
February 08,
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

January 2017 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
1/13/2017	1/12/2017	QRD	1526292	SYSTEM	2,550.88

Account Summary

Total Deposit:	2,550.88	Beginning Balance:	1,062,865.55
Total Withdrawal:	0.00	Ending Balance:	1,065,416.43

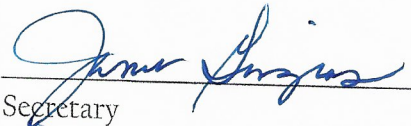


MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of January 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

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CACHUMA O & M BOARD

PAGE 1

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

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO
STATEMENT DATE 01/31/2017
LAST STATEMENT DATE 12/30/2016

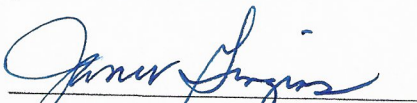
0	STATEMENT PERIOD		
PREVIOUS BALANCE	63,087.61	# OF DAYS-STMT PERIOD	32
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	63,087.61
ENDING BALANCE	63,087.61	YTD INTEREST	0.00
TOTAL SRV CHG TODAY	0.00		

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of January 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

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CACHUMA O & M BOARD

PAGE 1

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

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO [REDACTED]
STATEMENT DATE 01/31/2017
LAST STATEMENT DATE 12/30/2016

0 STATEMENT PERIOD

PREVIOUS BALANCE	713,592.52	# OF DAYS--STMT PERIOD	32
1 DEPOSITS/CREDITS	182,277.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	753,465.61
ENDING BALANCE	895,869.52	YTD INTEREST	0.00
TOTAL SRV CHG TODAY	0.00		

DEPOSITS

DATE	DESCRIPTION	AMOUNT
01/25/17	FROM XXXXXXXXXX1514 To transfer deposit to correct account	182,277.00

DAILY BALANCE SUMMARY

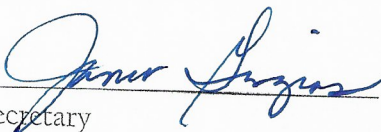
DATE	AMOUNT	DATE	AMOUNT
01/25/2017	895,869.52		

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 January 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

Cachuma Operation & Maintenance Board

Paid Claims

As of January 31, 2017

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
1050 - GENERAL FUND				
01/02/2017	25109	AT&T	Dec charges	-481.69
01/02/2017	25110	CIO Solutions, LP	ShoreTel Support Agmt 1/14/17-1/14/18	-1,405.00
01/02/2017	25111	Coastal Copy, LP	Mtce agmt TASKalfa 4550ci/3051ci	-386.66
01/02/2017	25112	County of Santa--Barbara	Green waste-Dec tickets	-80.40
01/02/2017	25113	Cox Communications Santa Barbara	Business internet-Dec	-195.00
01/02/2017	25114	Filippin Engineering, Inc.	Construction Observation-Quiota Creek Xng 0A - Dec (Fish Div)	-2,908.00
01/02/2017	25115	Frontier Communications	SCADA	-567.92
01/02/2017	25116	Fugro Consultants, Inc.	Construction Materials testing-Xng 4-Nov/Dec	-3,337.50
01/02/2017	25117	HDR Engineering, Inc.	Engineering services-EPFP Nov/Dec (Ops Div)	-8,137.81
01/02/2017	25118	J&C Services	Ofc cleaning services 11/25 & 12/9/16	-420.00
01/02/2017	25119	O'Reilly Automotive, Inc.	Grease for backhoe/Battery/Booster jump cables (Ops Div)	-218.37
01/02/2017	25120	Paychex, Inc.	12/14, 12/28 payrolls/Taxes/Deliveries	-311.96
01/02/2017	25121	Powell Garage	Oil/Filter/Service - 06 Ford Ranger & 07 Ford F-350 (Ops Div)	-175.98
01/02/2017	25122	Select Staffing	Admin Secretary/Admin Assistant II	-4,549.83
01/02/2017	25123	Southern California Edison	Outlying stations	-74.09
01/02/2017	25124	SWRCB-DWOCP	Treatment Certification Grade -2 (DF) (Ops Div)	-60.00
01/02/2017	25125	Verizon Wireless	Cellular/Modem's/USB and Modems (Ops Div)	-643.01
01/02/2017	25126	Water Systems Optimization, Inc.	Water efficiency & metering analysis- Dec (Ops Div)	-2,375.00
01/02/2017	25127	Wright Express Fleet Services	Fleet fuel	-1,683.47
01/06/2017	25128	Association of Ca Water Agencies/JPIA	Feb Health Benefits coverage	-26,588.02
01/06/2017	25129	Peter Lapidus Construction, Inc.	Release of retentions - Xing 4 (Fish Div)	-36,707.45
01/09/2017	25070	Bartlett, Pringle & Wolf, LLP	Audit services-FY 15/16	-7,539.00
01/09/2017	25071	Bedrock Building Supplies	Sand bags for Lauro Yard (Ops Div)	-162.00
01/09/2017	25072	Business Card	Office Supplies/Printer/Staff event/Waders/Levellogger edge	-3,231.23
01/09/2017	25073	Calif Dept of Forestry & Fire Protection	Glen Annie Res Work (Ops Div)	-342.93
01/09/2017	25074	City of Santa-Barbara	Trash/Recycle-Dec 2016	-218.67
01/09/2017	25075	Crop Production Services, Inc	Rodent Bait (Ops Div)	-60.75
01/09/2017	25076	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#32-Phase II (Ops Div)	-124,000.00
01/09/2017	25077	Draganchuk Alarm Systems	Alarm monitoring 1/1/17-3/31/17	-82.50
01/09/2017	25078	ECHO Communications	Monthly answering service	-62.00
01/09/2017	25079	Farwest Corrosion Control Co.	Annual-cathodic protection survey 54" & 27" pipelines (Ops Div)	-2,395.00
01/09/2017	25080	Flowers & Associates, Inc.	Engineering services-Lat 3A Abandonment-Nov (Ops Div)	-185.00
01/09/2017	25081	Frontier Communications	Main office/Outlying stations/SCADA	-587.51
01/09/2017	25082	Harrison Hardware	Latex gloves/Rake/Wrench/Soil/Gopher basket/Brass Coupler (Fish Div)	-622.99
01/09/2017	25083	Harwood White	Dec mtg fees	-264.95
01/09/2017	25084	Home Depot Credit Services	Headlight/Batteries (Ops Div)	-101.11
01/09/2017	25085	J&C Services	Carpet cleaning (main trailer) - 12/30/16	-150.00
01/09/2017	25086	Lauren W. Hanson	Dec mtg fees	-133.40
01/09/2017	25087	MarBorg Industries	Portable toilets-outlying stations	-241.47
01/09/2017	25089	Orchard Business/SYNCB	Spray paint/Painters tape/Light bulbs (Ops Div)	-163.70
01/09/2017	25090	Pacific Coast Jiffy Lube	Service-2008 Ford Explorer (Ops Div)	-63.50
01/09/2017	25091	Polly Holcombe	Dec mtg fees	-143.28
01/09/2017	25092	Quinn Company	Service-Lauro Generator (Ops Div)	-762.00
01/09/2017	25093	Sansum Clinic-Occupational Medicine	Pre-employment physical (Admin Div)	-269.00
01/09/2017	25094	Select Staffing	Admin Secretary/Admin Assistant II	-4,603.12
01/09/2017	25095	Southern California Edison	Main office/Outlying stations	-1,097.07
01/09/2017	25096	W. Douglas Morgan	Dec mtg fees	-277.60
01/09/2017	25097	WIN-911 Software	WIN-911-Maint-R SCADA mtce/Support	-495.00
01/09/2017	25098	AECOM Technical Services, Inc.	Engineering services - Quiota Creek X-ing 4 & Oa (Fish Div)	-10,698.95
01/09/2017	25099	Automated Entry Systems	Replace main contact relay (Ops Div)	-580.00
01/09/2017	25100	Culligan of Sylmar	Monthly RO system-Jan	-26.95
01/09/2017	25101	Krazan & Associates, Inc.	QCX#0a & 4 Bridge construction testing/Inspection (Fish Div)	-4,140.00
01/09/2017	25102	Premiere Global Services	Conf calls-Dec	-116.08
01/09/2017	25103	Prudential Overall Supply	Mats/Scrapers-Dec	-100.56
01/09/2017	25104	Quinn Company	Service-Lauro Generator (Ops Div)	-8,361.01
01/09/2017	25105	Santa Ynez Band of Chumash Indians	Quiota Creek Xing 0a-Field monitoring (Fish Div)	-4,189.90

Cachuma Operation & Maintenance Board

Paid Claims

As of January 31, 2017

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
01/09/2017	25106	SB Home Improvement Center	Trapping equipment (Fish Div)	-126.55
01/09/2017	25107	Staples Credit Plan	Network Couplers	-28.06
01/09/2017	25108	Turenchalk Network Services, Inc.	IT Services for Dec/Network/Printer setup/Ransomware recovery	-2,083.50
01/13/2017	25130	Peter Lapidus Construction, Inc.	Change Order 2 - Xng 4 (Fish Div)	-3,886.77
01/24/2017	25131	American Riviera Bank (ARB)	Principal/Interest pymt #6-Jan	-28,123.75
01/24/2017	25132	American Riviera Bank (ARB)	Principal/Interest pymt #6-Jan	-10,354.21
01/30/2017	25133	Aqua-Flo Supply	Slip Caps/PVC Pipe (Ops Div)	-80.77
01/30/2017	25134	Business Card	Office supplies/Staff event/Business cards (EL)	-1,073.58
01/30/2017	25135	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#33-Phase II	-124,000.00
01/30/2017	25136	HDR Engineering, Inc.	Engineering services-EPFP Nov/Dec (Ops Div)	-11,731.36
01/30/2017	25137	Instrument & Valve Services Company	Calibration-pressure transmitters (4) (Ops Div)	-931.16
01/30/2017	25138	J&C Services	Ofc cleaning services 12/16, 12/30, 12/23, 1/5/17 & 1/06/17	-431.83
01/30/2017	25139	MarBorg Industries	Portable toilets-outlying stations	-241.40
01/30/2017	25140	Orchard Business/SYNCB	Tarp/Rubber Straps/Glue (Ops) Tote (2) (Fish Div)	-125.00
01/30/2017	25141	Peter Lapidus Construction, Inc.	Release of retentions/CO #2 - Xing Oa (Fish Div)	-26,890.39
01/30/2017	25142	PG&E	North Portal electricity	-349.99
01/30/2017	25143	Praxair Distribution, Inc	Cylinder rental (acetylene for welder)	-69.75
01/30/2017	25144	Select Staffing	Admin Secretary/Admin Assistant II	-5,649.21
01/30/2017	25145	SWRCB Fees	Annual permits fee - Xng 3 10/01/16-9/30/17	-527.00
01/30/2017	25146	The Gas Company	Gas-main office	-53.29
01/30/2017	25147	Tri-Co Reprographics	Copies-Quiota Creek 0a & 4 (Fish Div)	-49.64
01/30/2017	25148	PG&E	Tecolote tunnel electricity	-30.63
01/30/2017	25149	Sansum Clinic-Occupational Medicine	Pre-employment physical-(2 Seasonals) (Fish Div)	-538.00
01/30/2017	25150	Select Staffing	Admin Secretary/Admin Assistant II	-2,407.13
01/30/2017	25151	United States Geological Survey	Agmt#16WSCA44600 4th Qtr 8/1-10/31/16 Agmt 11/1/15	-19,525.00
01/31/2017	25152	ACWA-Joint Powers Ins. Authority	Workers Comp Program 10/1 - 12/31/16	-9,690.00
Total 1050 · GENERAL FUND				<u>-516,773.36</u>
TOTAL				<u>-516,773.36</u>

APPROVED FOR PAYMENT

FINANCE COMMITTEE

Director
Director
Director

CACHUMA OPERATION & MAINTENANCE BOARD

Special Operations Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Wednesday, February 22, 2017

2:00 p.m.

AGENDA

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Update on Critical Projects affected by Recent Storm Activity (*for information and possible recommendation*)
 - Emergency Pumping Facilities (EPF) Project
 - Lauro Diversion Valve
 - South Coast Conduit
4. Adjournment

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	February 27, 2017
Submitted by:	Janet Gingras

SUBJECT: LAKE CACHUMA: Emergency Pumping Facility Project (EPF)

SUMMARY:

The recent storm, which started February 16th centered on the mountain areas and south coast of Santa Barbara County, brought 9.2 inches of rainfall to the Gibraltar area and surrounding Cachuma watershed. In a twenty-four hour period during the storm event, Lake Cachuma increased elevation by twenty-three (23) feet from 672' to 695' with a corresponding storage increase of approximately 20,000 AF. Currently the lake level is over 706' in elevation and storage exceeds 82,000 AF with over 42% capacity.

In response to the storm event and considering the predictive model runs produced by the County, recommendations regarding the safety of the tower appendage and disposition of the Emergency Pumping Facility (EPF) at the site 1 location were made after consultation with the Project Engineer, the Contractor and Board President and in accordance with the previously presented decision matrix. Cushman Contracting was notified to place the EPF into standby mode effective with lake elevation 676' (occurring Friday, February 17th). The operational notice also indicated they should prepare to extract the mooring piles and pipeline at site 1 prior to the piles becoming submerged (700') and the pipeline becoming unmoored. The cost to retrieve the mooring piles using divers once the piles become submerged is significant.

The work related to demobilization from site 1 is covered within the design, build, operate and maintain (DBOM) contract Item No. 18 (\$161,000). A partial demobilization payment (\$145,000) will be made until analysis is presented and a decision is made related to disposition of the barge, pipeline materials and associated equipment. While Resolution No. 610 authorizes additional expenditures and continuing execution of the DBOM Contract Agreement through June 2017, Board ratification authorizing the budgeted expenditures for demobilization from site 1 (Item No. 18) is requested at this time.

FISCAL IMPACTS:

Funds for expenditures related to demobilization at site 1 (Item 18) in the DBOM Contract Agreement are contained within the FY 2016-17 adopted budget.

COMMITTEE STATUS:

The Operations Committee discussed the operational status of the EPF and forwards to the Board a recommendation to ratify the authorization of demobilization of the EPF from site 1 as described in the DBOM Contract Agreement with Cushman Contracting Corp. (Item No. 18) and approve the resulting budgeted expenditure in the amount of \$161,000.

RECOMMENDATION:

The Board of Directors ratify the authorization of demobilization of the Emergency Pumping Facility from site 1 as described in the DBOM Contract Agreement with Cushman Contracting Corp. (Item No. 18) and approve the resulting budgeted expenditure in the amount of \$161,000.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	February 27, 2017
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: Resolution No. 629 supporting Santa Barbara County's Proposal to the Governor's Drought Task Force

SUMMARY:

In December 2016, the Governor's Drought Task force met with elected officials and local water agencies and directed the California Office of Emergency Services to work together with Santa Barbara County to address the infrastructure needs and contingency planning necessary to maintain public health and safety during the immediate drought, and to identify regional projects which would provide long-term mitigation against future droughts.

Since that time, Santa Barbara County water agencies have worked together to develop a proposal that includes a suite of projects which would assist in mitigating the impacts of the extreme drought and future droughts, while providing a regional benefit. The attached proposal includes a project list for presentation to the Governor's Office to request funding assistance for implementation of the projects.

Resolution No. 629 is presented as consideration for adoption by the Board of Directors acknowledging COMB's support of the proposal and directing the County of Santa Barbara to submit the proposal to the Governor's Drought Task Force. Elected Officials emphasized the importance of achieving County-wide support of the proposal prior to its submission to the State.

LEGAL CONCURRENCE:

COMB General Counsel has reviewed proposed Resolution No. 629.

RECOMMENDATION:

The Board of Directors adopt Resolution No. 629 supporting Santa Barbara County's submission of the proposal to the Governors Drought Task Force.

LIST OF EXHIBITS:

1. Resolutions No. 629
2. Santa Barbara County Proposal to the Governor's Drought Task Force

RESOLUTION NO. 629

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING A
RECOMMENDATION THAT THE COUNTY OF SANTA BARBARA PROVIDE THE
GOVERNOR'S DROUGHT TASK FORCE WITH A LIST OF PROJECTS DESIGNED
TO ADDRESS IMMEDIATE AND LONG-TERM DROUGHT NEEDS**

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

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

WHEREAS, on January 15, 2014, the Secretary of the United States Department of Agriculture (“USDA”) declared 27 counties in California, including Santa Barbara County (“County”), to be designated as primary natural disaster areas due to drought conditions. Subsequently, on January 17, 2014, the Governor declared a statewide State of Emergency for Drought in the State of California. In turn, on the same date the Santa Barbara County Director of Emergency Services signed a Proclamation for a Local Emergency for Drought on January 17, 2014 and subsequently ratified by the Santa Barbara County Board of Supervisors on January 21, 2014; and

WHEREAS, supplies from Lake Cachuma, a major water supply for many communities, have been largely unavailable during the drought, with no project water being allocated for the last two years; and

WHEREAS, affected water providers serving communities in the County have been forced to rely on local groundwater and State Water Project deliveries, including some into a half-empty Lake Cachuma; and

WHEREAS, until only recently, the level of Lake Cachuma was below the level needed for water to flow naturally into Tecolote Tunnel and the South Coast distribution system without the aid of a temporary emergency pumping system, which had been in operation since August 24, 2015; and

WHEREAS, although most of California recently emerged from drought emergency, Santa Barbara County continues in serious drought and the Lake Cachuma reservoir, which provides in a normal year about 25,000 acre feet (“AF”) of water supply, is well-below full capacity; and

WHEREAS, in recognition of the continued drought facing Santa Barbara County, the Governor’s Drought Task Force directed the County, local agencies, and the California Office of Emergency Services (“Cal OES”) to work together to address the infrastructure needs and contingency planning necessary to maintain public health and safety during the immediate drought, and identify projects that can provide long term mitigation against future droughts (hereinafter “Projects”); and

WHEREAS, a proposal with a list of Projects and concerns detailing these immediate and long term drought needs has been developed; and

WHEREAS, Cal OES, Santa Barbara County, and local water agencies will work together to develop a contingency plan and conduct Table Top exercises to prevent or significantly mitigate the likelihood of water shortages and outages from occurring over the next 12-18 months (hereinafter “Process”); and

WHEREAS, the Governing Board desires to authorize and approve that the County be requested to provide the Governor’s Drought Task Force with a proposal including a list of Projects developed through this Process, and include in that distribution the California State Senate, California State Assembly and Cal OES, and that COMB officers and staff work and cooperate closely with the County and other agencies on these drought mitigation efforts.

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

1. The Governing Board finds and determines that the facts set forth in the above recitals and in the documents referenced herein are true and correct.
2. The Governing Board approves and authorizes requesting the County to provide the Governor’s Drought Task Force with a proposal including a list of Projects developed through this Process, and include in that distribution the California State Senate, California State Assembly and Cal OES.
3. The Governing Board further authorizes COMB’s officers and staff, including the General Manager, to continue to do all things necessary and appropriate to work and cooperate closely with the County and other agencies on these drought mitigation efforts.
4. The Governing Board further finds and determines that, consistent with California Environmental Quality Act (“CEQA”) Guidelines Section 15378 et seq., this matter does not qualify as a “project” and is therefore, exempt from CEQA requirements.
5. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 27th day of February 2017, by the following roll call vote:

AYES:

NAYS:

ABSENT/ABSTAIN:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

SANTA BARBARA COUNTY OPERATIONAL AREA

PROPOSAL TO THE GOVERNOR'S DROUGHT TASK FORCE



February 8, 2017

This document was prepared at the request of the Governor's Drought Task Force in response to the ongoing drought emergency in Santa Barbara County.

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PURPOSE

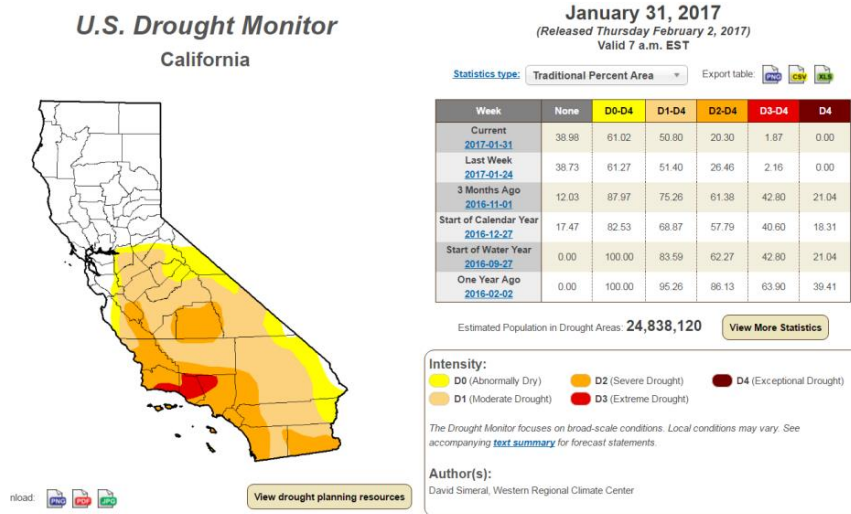
On January 17, 2014, Governor Brown proclaimed a drought emergency. He subsequently convened an interagency Drought Task Force to provide a coordinated assessment of the State’s dry conditions and provide recommendations on current and future state actions. The response to this statewide disaster has required and will continue to depend on the combined efforts of all state agencies and the state’s model mutual aid system. On December 12, 2016, the Governor’s Drought Task Force convened a meeting in Santa Barbara County at the Emergency Operations Center, in order to bring together regional stakeholders with the objective of identifying and developing a list of regional priority projects that address both the immediate drought emergency and long-term water supply sustainability.

The Santa Barbara County Office of Emergency Management (OEM) as the Operational Area Coordinator was asked to facilitate the process of developing the priority project list with the intent of securing support from each of the region’s water agencies. OEM convened an Action Working Group that met regularly to achieve the objectives of the Drought Task Force.

Following the development of the projects by the Action Working Group, XX water agencies and the County of Santa Barbara Board of Supervisors have resolved to support the effort and provide the Governor’s Drought Task Force with this project list.

BACKGROUND

Beginning in Water Year 2017, many parts of California have begun to emerge from a record-breaking drought, yet Santa Barbara County remains one of only two counties still experiencing extreme drought (see Image A).



Locally Lake Cachuma, which normally provides 80 percent of the drinking water to 250,000 people residing in the County’s South Coast, as well as 80,000 residents downstream of the dam who rely on water rights held in the lake for drinking and agriculture needs, is at less than 15 percent of capacity and groundwater basins throughout the County are showing signs of stress. The

severe drought conditions that persist in Santa Barbara County continue to threaten the region’s ability to maintain public health and safety for residents as we enter a sixth year of extreme drought. Communities throughout the County have become reliant on the State Water Project (SWP), as well as local groundwater supplies.

Although water agencies across Santa Barbara County have done much to diversify and secure their water supply sources over the past 30 years, this drought has made clear the need to further develop drought

resilient local water sources. Further, while simultaneously enhancing and securing existing supply sources and infrastructure, many communities in the County have implemented strict conservation goals and measures to withstand the drought. While communities continue to conserve, with some achieving conservation levels as high as 45 percent, and others also achieving the State's per capita goals of 55 gallons per person per day (GPDC); conservation is only one part of a holistic approach to withstanding this drought and future droughts.

It has also become increasingly apparent that the strain on the rate payers has been significant during this drought due to water agencies' decreased revenues combined with the need for emergency drought-related projects and water purchases. Due to all of the aforementioned factors, the region's water agencies have come together to develop a diverse set of projects that provide new water supplies for agencies across the County, increase water supply reliability, and take prudent steps to secure infrastructure critical to our ability to continue to safely deliver potable water during the current emergency.

Attached is the list of projects that has been developed and supported by local water agencies. These projects are grouped into two categories: Additional Water Supplies and Protection of Existing Resources.

ADDITIONAL WATER SUPPLIES

Santa Barbara County water agencies have identified the following three regional projects that will help to secure additional water for the region. These projects will provide drought relief and future drought mitigation.

1. Reacquisition of suspended Santa Barbara County Table A Water
2. Recommissioning of the Charles E. Meyer Desalination Plant in Santa Barbara
3. A comprehensive reuse program for Goleta and Carpinteria Valley Water Districts

The acquisition of suspended Table A Water will provide 12,214 AF of water to Santa Barbara County water agencies. The recommissioning and expansion of the desalination plant has the potential to provide up to an additional 10,000 AF of water annually. The comprehensive water reuse program, which includes projects designed for the service areas for Goleta and Carpinteria Water Districts, have the combined potential to add up to 6,100 AF of additional water annually.

It is important to note that desalination and water reuse projects are less impacted by drought and provide local sustainable supplies. Reacquisition of Table A Water, initially allocated to Santa Barbara County, will provide increased reliability as a drought buffer to Santa Barbara County when SWP allocations are less than 100%.

PROTECTION OF EXISTING RESOURCES

Santa Barbara County water agencies have identified the following regional projects that will protect the existing water supply in the region. All of these projects aim to ensure that existing supplies are clean, safe, and reliable for delivery to residents.

1. Removal of Hexavalent Chromium from groundwater to regain local supply reliability
2. Maintain the temporary emergency pumping system at Lake Cachuma
3. Construct an interagency intertie to facilitate emergency health and safety-related water transfers throughout the South Coast

While these projects do not provide additional water supplies, they either ensure that the delivery of current supplies will continue uninterrupted, or provide treatment to satisfy health and safety concerns for the delivery of potable water. Failure to proceed with these projects will either require additional new water sources from elsewhere, place additional strain on already scarce shared resources, or result in an inability to supply water to residents and critical facilities.

CONCLUSION

Santa Barbara County has a long history of facing cyclical droughts of varying severity and will continue to confront worsening drought emergencies exacerbated by climate change. The intent of the Action Working Group and the following proposed projects is to provide water resiliency, climate change adaptation, and a proactive, long-term approach to future drought mitigation. A water outage/shortage is a real concern that could take place in the near-term. A failure of the Temporary Emergency Pumping System, a State Water Project mechanical failure or an operational delay in the startup or a failure at the Desal facility could all create a water crisis. Therefore, in addition to developing this list of priority projects, the Action Working Group has collaborated on a Water Outage/Shortage Contingency Plan and a tabletop exercise simulating a water outage/shortage scenario is scheduled to take place by March 2017. These tabletop exercises will provide input for further contingency planning focused on maintaining water service across communities impacted by the drought over the next 6-24 months.

SUMMARY LIST OF PRIORITY PROJECTS

Project	Type	Acre Feet Increase	Estimated Cost	Completion Time	Regional Benefit	Regional Support
Reacquisition of Suspended Table "A" Water	Additional Water Supply	Up to 12,214 AF	\$36 million	12-18 months	All	All
Recommissioning and Expansion of Regional Desalination Facility	Additional Water Supply	Up to 10,000 AF/Y	\$110 million approx. (\$50 million expansion)	12-18 months	All	Most
Water Reuse - Goleta	Additional Water Supply	2,000-5,000 AF/Y	\$1mil. pilot. \$100-150 mil. final	5-10 years	All	All
Water Reuse - Carpinteria	Additional Water Supply	1,100 AF/Y	\$20 million	3 years	All	All
Treatment Facilities for the Removal of Hexavalent Chromium from Groundwater	Protection of Existing Resources	Restores 2,400 AF/Y	\$14 million	3 years	Most	All
Temporary Emergency Pumping System at Lake Cachuma	Protection of Existing Resources	N/A	\$2 million+ (costs vary, option to purchase or lease)	Immediate	South Coast	All
Interagency Intertie Project between Goleta and Santa Barbara	Protection of Existing Resources	N/A	\$5 million	12 months	South Coast	South Coast

Reacquisition of Suspended Table "A" Water

PROJECT DESCRIPTION:

To address water supply reliability in Santa Barbara County, the Central Coast Water Authority (CCWA) is proposing to acquire 12,214 acre-feet (AF) of State Water Project (SWP) Table "A" water from the State of California Department of Water Resources (DWR). This project will provide for an overall increase in water supply and will serve as a critical drought buffer.

REGIONAL BENEFIT:

CCWA member water purveyors that have agreed to participate in the purchase of this water, at this date, represent the South Coast, the Santa Ynez Valley and the Santa Maria Valley. In addition, terms of an agreement approved between CCWA and the Santa Barbara County Flood Control and Water Conservation District (County) specify that the use of this water be offered to other CCWA participants throughout the County when available.

HOW IT ADDRESSES HEALTH AND SAFETY:

This water provides additional high quality water for replenishment of the Santa Maria Groundwater basin; serves to supply additional water to areas in the Santa Ynez Valley in dire need due to Hexavalent Chromium in the groundwater supply; supplements water supplies to the South Coast; and increases deliveries of water to Lake Cachuma for subsequent delivery to the South Coast.

FUNDING CHALLENGES & POTENTIAL SOLUTIONS:

To reacquire this suspended Table "A" water all-back payments will be due both to DWR (approximately \$30 million) and the County (approximately \$6 million). It is estimated that the purveyors that are acquiring this additional Table "A" water will need to raise rates up to an additional ten percent to sustain the financing. Forgiveness of a portion of the back payments or repayment of the back payments from another source, such as grant funding, would reduce the burden on local rate payers.

DISCUSSION:

As a result of past contractual arrangements and litigation, the County is in the unique position of having the first right of refusal to acquire the last remaining quantity of SWP Table "A" Water available in California. In 1961, the County contracted with DWR for approximately 57,000 AF of SWP water. When the management of the water was transferred from the County to the County water purveyors in the early 1980's, the purveyors desired to acquire only approximately 45,000 AF. Payment for the difference in water (12,214 AF) that the County originally contracted for and the amount the purveyors desired was suspended. To reacquire this suspended Table "A" water all-back payments will be due both to DWR (approximately \$30 million) and the County (approximately \$6 million).

Due to environmental and operational constraints in the Sacramento Delta, the percentage of water available for allocation to the SWP contractors has steadily declined over the last ten years. This has resulted in the actual amount of water delivered to SWP contractors being significantly reduced. Acquiring this 12,214 AF will substantially restore the dependability of the SWP water supply to near

levels originally anticipated when the purveyors anticipated their needs in 1981. This project will not increase the size of the conveyances or the flow capacity of the system to deliver water in excess of the original design of 45,000 AF per year. The reacquisition of the Suspended Table "A" water will allow the system to more consistently carry up to the full-capacity of the existing system.

CCWA represents the County water purveyors which deliver SWP water. The County is the contracting party with DWR. CCWA and the County have negotiated the deal points of a term sheet to proceed in discussions with DWR to acquire this water. These discussions will begin in late January of 2017. Transfer of the water will require an amendment of the contract between DWR and the County. DWR has determined an EIR will be required for this project. It is estimated that the time required to satisfy this requirement will be eighteen months.

Funding the back payments (approximately \$36 million) will require financing by the purveyors that opt to receive this water. It is estimated that the purveyors that are acquiring this additional table "A" water will need to raise their rates up to an additional ten percent to sustain the financing.

Acquisition of this water will require an amendment to the State Water Contract between the County and DWR. This amendment will require the approval of the Board of Directors of the County Flood Control and Water Conservation District (Board). While some members of the community are opposed to the SWP and actively participated in the recent discussions regarding this acquisition at the Board meetings, the Board ultimately directed staff to proceed with negotiating the terms of acquisition with both DWR and CCWA.

CCWA member water purveyors that have agreed to participate in the purchase of this water represent the south coast, the Santa Ynez Valley and the Santa Maria Valley. Terms negotiated between the County and CCWA specify a commitment and pricing structure to facilitate water transfers between purveyors in the County. Interagency transfers within the County are not subject to provisions requiring the payback of water at a future date. Interagency transfers of water with water purveyors outside the County are subject to provisions requiring payback of water at a future date. For example, some South Coast purveyors have a payback requirement (water debt) that meets or exceeds the purveyor's yearly allocation of SWP water. Water acquired from other purveyors within the County could be used to meet that water debt without an obligation from the borrowing purveyor to return the water in the future. As such, additional Table "A" water available to water purveyors within the County is a valuable asset that can provide the maximum flexibility for meeting water supply needs for all the CCWA member water purveyors.

IMPACTS:

Fiscal – Agencies that acquire this water will need to incur a rate increase of between five and ten percent to pay the back debt on this water (approximately \$36 million total).

Operational – No operational impacts anticipated.

Legal – Challenges to both the contract amendment between the County and DWR and the environmental document may occur.

Labor – No impact to Labor is anticipated.

Sociopolitical – Historically, some opposition exists to the SWP.

Policy – Not aware of any policy conflicts that this acquisition incurs.

Health and Safety – High quality water helps sustain basin recharge, offsets issues associated with high Hexavalent Chromium in the Santa Ynez Valley, and provides additional water to Lake Cachuma and subsequently to the South Coast. This project will provide for an overall increase in water supply (drought buffer).

Environmental – An environmental document is required.

Permitting Status – No construction is required.

ACTIONS NEEDED:

The County and DWR will need to engage in the most efficient and effective process to transfer this water to the County, due to the critical nature of securing this water supply as a drought buffer. The Board will need to approve a contract amendment with DWR to transfer this water to the County and funding options, including low cost financing and grants along with additional sources, need to be considered to reduce the impact on local rate payers.

Recommissioning and Expansion of Charles E. Meyer Desalination Plant

PROJECT DESCRIPTION:

The regional Charles E. Meyer Desalination Plant (Desal Plant) was originally put into service in 1991 to provide a much needed source of drinking water for Santa Barbara County. The Desal Plant was constructed and permitted to a capacity of 10,000 AFY to serve as a regional facility for Santa Barbara's South Coast water agencies. The Desal Plant was deactivated in 1992, after heavy rainfalls filled local surface water reservoirs. The regional partners withdrew their interests from the Desal Plant in 1995, and the Desal Plant was put into long term storage in 1997.

The current Desal Plant project consists of reactivating the Desal Plant to a capacity of 3,125 AFY, with water deliveries to the City of Santa Barbara being anticipated by April 2017. Design is underway for a transmission pipeline that will primarily serve the City of Santa Barbara, but also provides future opportunities to convey water to other South Coast water agencies. This transmission pipeline would make the Desal Plant a regional facility, allowing it to diversify the region's water supply mix and provide reliable drinking water supplies to Santa Barbara, Montecito, and Carpinteria. The current Desal Plant reactivation project is designed with the ability for the Desal Plant's capacity to be incrementally increased, depending on regional water demands. The Desal Plant size and approximate cost options are:

- \$70M for the current project, with water production of 3125 AFY.
- \$10M for construction of a transmission pipeline sized to convey 10,000 AFY (sized for future Desal Plant expansion).
- \$30M to increase the Desal Plant's capacity to 7,500 AFY.
- \$40M to increase the Desal Plant's capacity to 10,000 AFY.

REGIONAL BENEFIT:

The Desal Plant could potentially be expanded to serve as a regional water supply facility, indirectly benefiting the South Coast communities, serving Santa Barbara, Montecito, and Carpinteria.

Regionalizing the Desal Plant could be accomplished through approval of water supply agreements and exchanges with South Coast water agencies, communities receiving State Water, and communities receiving water from the Santa Ynez River.

The Desal Plant is permitted, and construction is underway for a facility that will produce 3,125 AFY. The Desal Plant is designed for expansion to 7,500 and 10,000 AFY. Expansion would enable the Desal Plant to be converted into a regional water facility, where it would diversify the South Coast's water supplies and provide reliable drinking water supplies to Santa Barbara, Montecito, and Carpinteria.

In support of these regional opportunities and community benefits, the City of Santa Barbara is currently designing a transmission pipeline to connect the Desal Plant to the City's water distribution system and the South Coast Conduit, which is owned by the U.S. Bureau of Reclamation and conveys water to other

South Coast water agencies. The transmission pipeline is being sized to convey up to 10,000 AFY of desalinated water. The transmission pipeline has the potential to be jointly used for a future direct potable reuse project, serving as infrastructure for both desalinated and potable reuse water supplies.

The Desal Plant supports key objectives from the Santa Barbara County 2013 Integrated Regional Water Management Plan by augmenting water supplies, protecting groundwater supplies, and improving emergency preparedness for the South Coast. The South Coast's surface water supplies are conveyed through tunnels that are miles long and subject to catastrophic failures following an earthquake. In contrast, the Desal Plant is being constructed to current seismic codes, and will have a more secure conveyance system than the South Coast's surface supplies, especially after a large earthquake. The Desal Plant has the unique opportunity to serve as a regional water supply facility, providing safe and reliable drinking water supplies to the nearly 250,000 people living on the South Coast.

HOW IT ADDRESSES HEALTH AND SAFETY:

While the near-term trigger for reactivating the Desal Plant is the current drought situation, there are also long-term risks to the reliability of the region's current water supplies to consider. These reliability concerns include a reduced yield from existing surface water supplies due to sedimentation in reservoirs, forthcoming environmental requirements for the Cachuma Project, and potential risks due to climate change. The region's water supplies are also at risk in the event that surface water supplies are interrupted due to conveyance failure through the tunnels. For example, a seismic event could interrupt flow to Tecolote Tunnel, which conveys State Water and Cachuma Project water to over 250,000 people, resulting in an outage of a lifeline water source and a catastrophic water supply emergency.

The Desal Plant could potentially supply critical drinking water to the South Coast region, should a catastrophic interruption in water supplies occur. To be prepared for an emergency situation and be able to provide regional drinking water supply, the City of Santa Barbara is pursuing the construction of a transmission line that would connect the Desal Plant with the City's water distribution system and the South Coast Conduit, which is a U.S. Bureau of Reclamation facility.

FUNDING, CHALLENGES & POTENTIAL SOLUTIONS:

The capital cost for the regional Desal facilities is as follows:

- \$70M for the current project, with water production of 3125 AFY.
- \$10M for construction of a transmission pipeline sized to convey 10,000 AFY (sized for future Desal Plant expansion).
- \$30M to increase the Desal Facility's capacity to 7,500 AFY.
- \$40M to increase the Desal Facility's capacity to 10,000 AFY.

The City of Santa Barbara is actively seeking opportunities for grant funding to offset the cost of the initial reactivation project (3125 AFY), the transmission pipeline to bring water to the South Coast Conduit, and future expansion of the desalination facility (up to 10,000 AFY). However, the largest opportunity for assistance, Proposition 1 (DWR Desalination Grant Program), has yet to be made available, and the grant guidelines have yet to be released. When Proposition 1 was passed in November

2014, the City of Santa Barbara was encouraged that almost \$100 Million was authorized for desalination projects. Now more than two years later, there appears to be no progress to disperse these funds, despite the urgency with which voters approved Proposition 1.

The City is urging the State to make the eligibility criteria for Proposition 1 funds based on project commencement dates that occurred after approval of Proposition 1 by voters, as opposed to projects that will begin after grant guidelines are released. Given the urgent need to address drought impacts and provide emergency water supply, the City could not wait for grant guidelines to be released before moving forward with the initial Desal Plant project. As a result, the City of Santa Barbara is seeking assistance for the financial burdens caused by the drought, and is asking the State to make eligibility for funding based on projects that commenced after Proposition 1 was approved by voters.

DISCUSSION:

The City of Santa Barbara, like many agencies in Santa Barbara County, is currently experiencing multi-year drought conditions. The City's adopted 2011 Water Shortage Contingency Plan outlines the stages of drought and actions to achieve planned demand reductions. The City first declared drought in February 2014, and is currently in a Stage 3 Drought condition which is the most critical stage. The current Stage 3 Drought water use regulations require a 40% reduction from normal demands.

The City's drought planning is based on its adopted 2011 Long Term Water Supply Plan (LTWSP), which uses the 1947-52 period as the design drought. While the current drought is drier and more severe than the previous drought of record, the City has adaptively managed its supplies based on the policies in the LTWSP. During times of drought when surface water supplies are diminished, the City relies on extraordinary conservation, increased groundwater pumping, State Water, and desalination as drought supplies.

The original Charles E. Meyer Desalination Plant was completed in March 1991 and put into long-term standby mode in 1997 at the end of the last significant multi-year drought. The Desal Plant is included in the LTWSP as a recognized drought water supply to ensure the community continues to have sufficient uninterrupted drinking water supplies during critical drought periods.

In response to extreme and prolonged drought, Santa Barbara City Council awarded a Design Build Operate contract on July 21, 2015 to IDE Americas, Inc. to reactivate the Desal Plant to provide up to 3,125 AFY of drinking water. Onsite construction for the Desal Plant reactivation project started in September 2015, and desalinated water deliveries to the City's water distribution system are expected by April 2017.

The City's permits allow the Desal Plant to be operated as a regional facility, and produce up to a capacity of 10,000 AFY. In support of regional opportunities, the City of Santa Barbara is pursuing the construction of a transmission line that would connect the Desal Plant with the South Coast Conduit, which serves other neighboring water agencies. Reactivation of the Desal Plant will allow the facility to serve as a regional water supply. The City is also considering possible expansion of the Desal Plant, in order to serve regional water supply needs, especially in the event of a South Coast-wide disaster.

IMPACTS

Fiscal – The estimated capital cost for the regional Desal facilities is as follows:

- \$70M for initial Desal Plant reactivation project (3,125 AFY capacity)
- \$10M for the conveyance project (sized for future Desal Plant expansion)
- \$30M for Desal Plant expansion to 7,500 AFY. Costs to be refine in Spring 2017
- \$40M for Desal Plant expansion to 10,000 AFY. Costs to be refined as needed

The annual operating costs for a 3,125 AFY Desal Plant are \$4.1M in full production and \$1.5M in standby mode. The annual operating costs for an expanded facility will be determined in Spring 2017.

Environmental and Permitting Status – All required permits have been received for the Desal Plant project. The documentation of environmental assessments and determinations are found in the Final Environmental Impact Report and State Revolving Fund loan application (Project Number 4210010-005C).

Sociopolitical – All Santa Barbara water rate payers have been impacted by increased water rates resulting from the drought, and approximately 25 percent of the Santa Barbara community is of low and moderate income (American Community Survey).

Operational – N/A.

Legal – Water Supply or Exchange agreements would need to be negotiated with interested regional participants.

Labor – N/A.

Policy – Addressed above.

Health and safety – Addressed above.

ACTIONS NEEDED:

The City of Santa Barbara and its regional partners are seeking assistance for the financial burdens caused by the drought, and are requesting that the State make eligibility for funding based on projects that commenced after the Proposition 1 Desalination Grant Fund Program was approved by voters.

Comprehensive Water Reuse - Goleta

PROJECT DESCRIPTION:

This project would develop additional drought proof water supplies by treating recycled water to a potable standard. The proposed Direct Potable Reuse (DPR)/Indirect Potable Reuse (IPR) recycled water project would provide between 2,000-5,000 acre feet of new water supply that would further diversify the District's water supply portfolio, and support management of the groundwater basin. Phase 1 of the project, a Recycled Water Feasibility Study, is already underway. Under Phase 2, a proposed pilot project would test and demonstrate the use of new technologies to increase the amount of available potable drinking water. Results of the pilot project would inform the design of a final project under Phase 3.

REGIONAL BENEFIT:

Prolonged drought conditions and unseasonably warm, dry weather have resulted in increased customer demand while preventing the replenishment of shared water supplies in the region. As drought conditions persist, Lake Cachuma has been reduced to a conveyance facility, with a zero allocation for two years in a row. This has forced water suppliers to rely on alternative sources of supply and demand reduction programs to meet customer demand during drought. Water supply on the South Coast is further challenged by delivery capacity and reliability issues, and forthcoming environmental requirements for the Cachuma Project.

A project to expand the use of recycled water by the District would develop alternative sources of local supply that are reliable and unaffected by drought, and reduce the District's need to rely on Lake Cachuma and State Water to meet customer demand. Expanding and ensuring the continued delivery and use of recycled water benefits the entire Santa Barbara County region as it reduces reliance on imported water, and increases supply reliability. The IPD/DPR project envisioned by the District could ultimately result in the production and utilization of an additional 2,000 – 5,000 AF per year of drought-proof long-term water supplies.

The project involves a partnership with Goleta Sanitary District (GSD), and provides a multi-agency benefit by reducing ocean discharge. This project will also support key objectives from the Santa Barbara County 2013 Integrated Regional Water Management Plan; augmenting water supplies; protecting groundwater supplies; and improving emergency preparedness.

HOW IT ADDRESSES HEALTH AND SAFETY:

Recycled water plays a critical role in drought planning since it remains available even during periods of drought. Every drop of recycled water used conserves potable water supplies for drinking, health and safety.

Increasing treatment of recycled water to potable standards also increases the amount of reliable local supply available to the District during emergencies. Currently, the region's water supplies are at risk in the event that surface water supplies are interrupted due to conveyance failure through the tunnel system. For example, a seismic event could interrupt flow to the Tecolote Tunnel, which conveys State Water and Cachuma Project water to over 250,000 people on the South Coast, and could result in an interruption of service to customers. None of the agencies have storage capacity large enough to store more than a

week's supply of water. The District's would depend on reservoir storage capacity, which is limited to only a few days of drinking water supply, and the groundwater basin. The proposed IPR/DPR project would increase the amount of water available should a catastrophic interruption in water supplies occur.

FUNDING, CHALLENGES & POTENTIAL SOLUTIONS:

As part of the District's efforts to develop additional water supplies, on November 10, 2015 the Board of Directors authorized the acquisition of State grant funding and directed staff to complete a Recycled Water Feasibility Study (RWFS). The RWFS is underway and is anticipated to be completed in April. The study evaluates how the District could expand the use of recycled water within its service area.

- The District is seeking \$500,000 in grants for an estimated \$1 million pilot project at GSD, with a District match of up to \$500,000.
- The cost estimates for the final project range from \$100,000,000 up to \$150,000,000.

This project is eligible for Federal and State grants, including Proposition 1 funding, and Integrated Regional Water Management Plan.

DISCUSSION:

Since 1995, the District has served recycled water for irrigation and restroom facilities through a partnership with the GSD. The District serves approximately 1,000 acre feet per year (AFY) to 30 customers in the Goleta Valley, representing 7% of District supplies. Recycled water is not currently treated to potable standards and must be delivered through a completely separate system of purple pipe. Due to regulations limiting the use of recycled water as currently treated, and constraints in the existing recycled water distribution system, the District is only able to utilize a portion of total capacity of the existing recycled water treatment plant. Given the cost and difficulty of moving recycled water through a separate system, the industry has increasingly focused on how improvements to recycled water treatment technologies can bring recycled water to potable water standards.

The proposed recycled water project is a three-phase project that includes development of a RWFS (underway), a pilot project, and construction of a full-scale project. The proposed pilot project would test and demonstrate the use of new technologies to increase the amount of available potable drinking water, and inform the design of a final project.

IPR uses highly treated recycled water to replenish groundwater basins, while DPR treats the water to a drinkable standard and uses existing potable water infrastructure for distribution to customers. There is increasing interest in IPR and DPR across the State, though only IPR is currently on track to be permitted within the short term in CA. Treating recycled water to even higher standards so its use can be expanded and prioritized to the highest purpose is a common feature of the next generation of recycled water projects.

Orange County is currently producing approximately 100 MGD via IPR for agricultural and industrial customers and to buffer its aquifer against saltwater intrusion. The City of San Diego is currently designing a 30 MGD reuse project that will mix purified water with surface water supplies in reservoirs. DPR is not currently allowed by regulations, but it is the subject of ongoing research and consideration by

regulators. In 2016, the State published its report on the feasibility of DPR, but final regulations are not anticipated before 2020.

IMPACTS:

Fiscal – Cost estimates are being produced as part of the RWFS, but a final project would likely require significant funding in the form of grants, matching funds, and loans.

Operational – Depending on the project selected, there may be issues with blending and corrosion that would need to be addressed.

Legal – Depending on the project selected, and the regulations and permitting requirements, there may be legal considerations.

Labor – A final project would require additional expertise to operate and maintain.

Sociopolitical –The State is currently developing regulations and permitting requirements.

Policy – A final project would need to be evaluated against the potential of other alternative water supply projects such as stormwater capture.

Environmental – Environmental review would depend on the proposed project.

Interagency – The project builds on an established interagency partnership between GWD and GSD. This project would also help GSD comply with State mandates to be zero discharge.

ACTIONS NEEDED:

The District and its regional partners are seeking assistance for the financial burdens caused by the extended drought on the region, and requests that the State give funding preference to Santa Barbara County projects that are addressing drought related water supply reliability issues. Funding is needed for the pilot study, and subsequent final project to provide additional drought proof water supplies and further diversify the region's supply portfolio.

Comprehensive Water Reuse - Carpinteria

PROJECT DESCRIPTION:

This project develops additional drought proof water supplies by treating secondary sewer effluent to a potable standard. This project provides a new source of water supply, and diversifies the water portfolio for the Carpinteria Valley Water District (CVWD). The Recycled Water Indirect Potable Reuse (IPR) project will treat approximately 1100 acre feet per year (AFY) at the Carpinteria Sanitary District (CSD) treatment plant using full advanced water treatment. The finished purified water will then be stored in the Carpinteria Groundwater Basin for potable use later. In conjunction with other reuse projects currently proposed along the South Coast of Santa Barbara County this project will add a drought proof sustainable water supply to the region.

REGIONAL BENEFIT:

Water supply for the South Coast of Santa Barbara County is under stress due to the historic drought, limitations on State Water Project related to delivery capacity and reliability, and forthcoming environmental requirements for the Cachuma Project. This water supply stress has become a driver for Carpinteria Valley Water District to begin developing an IPR Project to provide a new sustainable water supply to the region.

While the Carpinteria IPR project is not proposed to serve other agencies outside the Carpinteria Valley directly, it will improve regional water supply reliability and create opportunities for exchange, among agencies on the South Coast, communities receiving State Water, and communities receiving water from the Santa Ynez River.

The IPR Project will also support key objectives from the Santa Barbara County 2013 Integrated Regional Water Management Plan; augmenting water supplies; protecting groundwater supplies; and improving emergency preparedness; and protecting ocean water quality.

HOW IT ADDRESSES HEALTH AND SAFETY:

While the near term drivers for the project are the current drought and the likely reduction of existing water supplies in the near future, there are also long term risks to the reliability of the region's current water supply. Currently, the region's water supplies are at risk in the event that surface water supplies are interrupted due to conveyance failure through the existing conveyance system. This conveyance facility is a weak link in the water supply system and failure of the pipeline or tunnel could cause large scale water outages to Carpinteria Valley Water District customers and the South Coast. The IPR project provides a local supply that does not rely on the conveyance facilities. For example, in the event of a catastrophic interruption, the IPR project and local groundwater supplies could provide a reliable local source capable of meeting minimum health and safety needs.

Additionally, when regulations allow, the IPR project could be converted to a Direct Potable Reuse project that would provide even more water supply flexibility in such an event. This project also supports mutual aid to Montecito Water District because CVWD has the ability to deliver its local water supply to Montecito Water District both through existing interties and the South Coast Conduit.

FUNDING, CHALLENGES & POTENTIAL SOLUTIONS:

The capital cost for the Carpinteria Indirect Potable Reuse Project facilities is as follows:

- \$4.0 Million Planning, Design, CEQA and Permitting
- \$17.1 Million for Facilities Construction
- Total Project Cost \$21.1 Million

The CVWD who is the lead agency for the Carpinteria Valley IPR project is in the process of developing a grant application for funding through the Recycled Water Funding Program funded by Proposition 1. It is our understanding the grant funding under this program is under great demand and that we are unlikely to acquire a grant from this funding source at this time. However, Carpinteria Valley Water continues to look for grant funding opportunities to help fund the project. CVWD is also looking to utilize State Revolving Fund low interest loans to fund the capital portion of the project. Since Carpinteria's water rates are some of the highest in the County, many residents of Carpinteria have expressed concern about the impact on water rates of the project. The challenge is to balance the cost of this new water supply with the reliability of the overall water supply. There are several opportunities that CVWD is looking into that may offset the expense of the IPR project while improving the water supply reliability.

DISCUSSION:

Santa Barbara County is currently suffering through the most intense drought on record for this area. The result of this drought is that Lake Cachuma, a major water supply for the Santa Barbara South Coast, has become depleted and project members have received no water allocation for two years. This is compounded by the fact that State Water project deliveries have been limited to an average of 41% of total allotment over the drought thus far. In Carpinteria the water district has heavily depended on the local groundwater basin to make up for the lack of other water supplies. Like Cachuma, the groundwater basin has also suffered depletion from increased extraction and minimal recharge over the past five years. The basin water level is nearing a fifty year low and showing signs of overdraft and the threat of seawater intrusion. Even with rain finally falling locally this year it is likely that the Cachuma Project safe yield will be reduced for the foreseeable future due to forthcoming environmental requirements for the Cachuma Project. This will apply pressure on an already depleted groundwater basin in Carpinteria.

In 2014, at the height of the drought, CVWD decided to begin studying the potential for both a regional recycled water project and a local recycled water project. After determining the need for an additional reliable water supply, CVWD, Carpinteria Sanitary District and the City of Carpinteria commissioned a facility level study to determine what the best option for developing a project would be. With the assistance of The State Water Resources Control Board Recycled Water Planning Grant Program, the Carpinteria Recycled Water Facilities Plan (RWFP) was completed in May of 2015. The study concluded that an indirect potable reuse project was the most beneficial to the water users in Carpinteria Valley. CVWD is currently completing a funding analysis, public outreach and technical analysis for the project.

The RWFP was developed to support decision making regarding building a Recycled Water Project in Carpinteria in order to mitigate water supply shortages. The Plan identified various uses for recycled water in Carpinteria Valley. Both non potable reuse (NPR) and indirect potable reuse were considered in the Plan. The RWFP found that the preferred project would be a treatment plant with Full Advanced Water Treatment (AWT) for use as an indirect potable water supply stored in the Carpinteria Groundwater Basin.

CVWD and CSD have contemplated cooperatively developing a Recycled Water Project as described in "Alternative 3C" of the RWFP. The Recycled water treatment would occur at the CSD Treatment Plant using AWT, including microfiltration, reverse osmosis and advanced oxidation process. It is estimated that the proposed project would yield about 1100 acre feet per year of water for reuse. It is assumed that the required additional treatment equipment for AWT would be located on the existing CSD treatment plant property. The finished water would be pumped into a proposed transmission pipeline connected to two groundwater injection wells located about one and a quarter miles away. The injected water would remain in the groundwater basin between two and six months at a minimum. The Water District would recover the water after this period through its existing groundwater production facilities for use as potable water.

Required new facilities include an advanced water treatment plant, pumping station, one and a quarter miles of transmission main and two injection wells with flushing tanks. The Project analysis is currently in the final stages of a funding plan, outreach plan and technical analysis. In June of 2017 the Boards of Carpinteria Valley Water District and Carpinteria Sanitary District will decide if they would like to move forward with the project. If they conclude the project is needed, then it is projected that the entire project including construction and startup will be completed by January of 2020.

IMPACTS:

Fiscal – CVWD believes that the IPR project will have impacts on water rates for a period of 10 years; however, CVWD is evaluating ways to minimize any rate impacts including utilization of grant funding, public private partnerships, interagency partnerships and debt restructuring.

Operational – Operational impacts for both CVWD and CSD are minimal.

Legal – Potential legal complexity exist with respect to using the Carpinteria Groundwater Basin for storage of purified recycled water. The District is working to develop a steering group of local groundwater stakeholders to assist it with this issue.

Labor – The project will require 2 to 3 FTEs to operate and maintain the project. This is figured into the unit price of water.

Sociopolitical – There are no known negative sociopolitical impacts that would result from this project. This project will provide a more secure water supply for the industry and agriculture potentially resulting job stability and economic growth in the area.

Policy – The project is supported by policies from the State level to the local level. No known conflicts in policy with this project exist.

Environmental – Environmental impacts have not been analyzed yet, however CVWD believes that any environmental impacts will be mitigatable. CEQA analysis will begin in June of 2017.

Interagency – CVWD is working with the Carpinteria Sanitary District and the City of Carpinteria to develop the project to maximize the benefits to each agency. CVWD is interested in working with other local water agencies to expand the water supply benefits of the project.

ACTIONS NEEDED:

The Carpinteria Valley Water District and its regional partners are seeking assistance for the financial burdens caused by the extended drought on the region, and requests that the State give funding preference under any available funding programs to Santa Barbara County Reuse Projects that are addressing drought related water supply reliability issues.

Treatment Facilities for the Removal of Hexavalent Chromium from Groundwater

PROJECT DISCIPTION:

The proposed Treatment Facilities Project would treat naturally occurring Hexavalent Chromium (Cr6) and will restore 2,400 AF/Year (average year production) local potable water supply in the Santa Ynez Upland Groundwater Basin through use of a new water treatment facility, blending facilities and well modification.

REGIONAL BENEFIT:

The Santa Ynez River Water Conservation District Improvement District No. 1 (District) supplies water to three mutual water companies, Cachuma Lake County Park and the City of Solvang in addition to its own customers. Additionally, restoration of local supplies will lessen demand on shared resources with other water agencies in the County by reducing dependency on State Water and Cachuma water.

HOW IT ADDRESSES HEALTH AND SAFETY:

The Division of Drinking Water (of the State Water Resources Control Board (SWRCB)) adopted a maximum contaminant level (MCL) for Cr6 in drinking water of 10 parts per billion, effective July 1, 2014. As a result, the District lost the use of half of its Upland well water availability that served as the backbone of the District's water supply system. Simultaneously, the ongoing drought that has plagued California for the last five years also took much or all of the District's water availability from its three remaining surface water sources, i.e., Lake Cachuma, Santa Ynez River alluvial wells, and the State Water Project. Over half of the Upland well supplies must be treated or blended to meet the new drinking water standards before these sources can again be utilized. Without full use, the District is in danger of not meeting peak day demands, water pressure or fire flow requirements under all conditions.

FUNDING, CHALLENGES & POTENTIAL SOLUTIONS:

All feasible methods of Hexavalent Chromium reduction are very expensive. Depending upon the Best Available Technology (BAT) chosen and the level of reliability desired, costs range from about \$14 million to over \$25 million. These considerable costs, made necessary due to drought and Hexavalent Chromium regulation, will be a huge burden to District customers.

The District continues to search for all Federal, State, and local grant and loan programs. A great amount of effort was expended pursuing Proposition 1 grants including making sure that naturally occurring Hexavalent Chromium was included in the original language as well as in the Water Code, attending and commenting on all workshops and draft guidance documents, setting up meetings with senior SWRCB staff and garnering lobbying assistance through the Association of California Water Agencies. All of this proved unfruitful, however, because the SWRCB stated that unless a contaminant could be removed from a groundwater basin (instead of treating it out of the pumped water) it could not be considered to be a groundwater project worthy of funding assistance. The SWRCB also stated that all districts looking for drinking water quality assistance must be a Disadvantaged Community to qualify for any grant assistance. Only loans from the State Revolving Fund would be considered otherwise.

The District continues to pursue IRWM assistance, loans through the USDA, loans through the State Revolving Fund as well as revenue bonds. Without some sort of grant assistance, however, the costs for a fully reliable system appear to be out of reach.

DISCUSSION:

The District and its consultant work group began studying and proposing solutions to the Cr6 problem in late 2013. Work included multiple rounds of water quality sampling and well profiling to characterize the average concentration of Cr6 from each of the District Upland wells; comparison of available treatment technologies for removal of Cr6 and conceptual design of treatment facilities; comprehensive hydraulic analyses addressing potential water blending between multiple wells and distribution of water among and between the existing District water zones; conceptual engineering design of a dedicated distribution system for irrigation water, separate from the domestic water distribution system; and quantification of water supplies from all sources available to the District, with consideration for augmenting those supplies not containing Cr6.

Water quality sampling and well profiling efforts concluded that naturally occurring Cr6 concentrations vary between the District Upland wells. Four (4) of the ten (10) total District Upland wells demonstrated Cr6 concentrations consistently above the 10 ppb Cr6 limit. Several other wells demonstrated Cr6 concentrations hovering just below the 10 ppb Cr6 limit. Well profiling conducted for several of the Upland wells identified geologic zones with high Cr6 concentrations, which contributed to the overall Cr6 concentration in produced water exceeding the 10 ppb Cr6 limit. By preventing water from entering the well casing from the higher Cr6 zones, water below the Cr6 MCL can be produced. This technique is achieved by installing packers, which are commonly used in the oil industry.

Another approach for wells with total Cr6 concentrations very close to the Cr6 MCL is to blend this well's water with another well that is producing water containing very low Cr6 concentrations. The water blended from the two well sources would then have Cr6 concentrations well within the MCL. All of the techniques identified above are included in the Hexavalent Chromium Treatment Facilities Project.

IMPACTS:

Fiscal - Depending upon the BAT chosen and the level of reliability desired, costs range from about \$14 million to over \$25 million. Excessive cost increases necessary due to drought and Cr6 mitigation, however, remains a huge burden to District customers. Operations and maintenance requirements are currently estimated at \$500,000 to \$800,000 per year in addition to the capital debt.

Operational – N/A

Legal – To date, legal work has been minimal.

Labor – N/A

Sociopolitical - The lack of public acceptance that the MCL legislation will benefit them and that they are at any real risk has been a common theme in public workshops and meetings.

Policy - N/A

Health and safety – Addressed above.

Environmental – N/A

Permitting status – Environmental and preliminary design are complete. Detailed design is ongoing.

ACTIONS NEEDED:

The District intends to treat and blend its affected water sources to reestablish water source reliability but the cost will be financially damaging to its customers without State/Federal grant assistance. Therefore, the District and its regional partners are seeking assistance for the financial burdens caused by the drought and new water quality regulations, and request that the State provide any and all assistance to make this project eligible for grant funding through Proposition 1 (including reinterpreting the guidance documents to come into conformance with the enabling legislation and the water code, so naturally occurring arsenic is included) and/or other grant programs.

Lake Cachuma Temporary Emergency Pumping Facility System

PROJECT DESCRIPTION:

This project maintains operation of the Temporary Emergency Pumping System (TEPS) at Lake Cachuma during the drought by providing for maintenance, relocation, and possible purchase of components of the system. This project is a highly critical operational infrastructure project, which provides lifeline delivery of Cachuma Project water and State Project water to 250,000 residents on the South Coast of Santa Barbara County. Without the ongoing operation of the EPS, water service to all major population centers on the South Coast would be interrupted, causing a widespread immediate threat to public health and safety.

REGIONAL BENEFIT:

The Cachuma Project was constructed in the late 1950's and has been the primary source of surface water supply for certain water agencies in central and south Santa Barbara County. When the lake was built, an intake gate was designed to deliver water to the South Coast through a gravity feed system. The severe drought has reduced Lake Cachuma storage to as low as 7% of its total capacity. For more than two years, water levels have been below the intake facility. Unable to flow by gravity into the intake tower, water has instead been pumped by the TEPS up to the lowest intake gate to continue water deliveries. Continued maintenance, and movement of the pump barge as lake levels rise and fall are critical to keeping the EPS operational. This project provides a regional benefit by ensuring continued, reliable conveyance of Cachuma Project water, State Project water and supplemental purchased water to purveyors on the South Coast of Santa Barbara County including Goleta Water District, the City of Santa Barbara, Montecito Water District and Carpinteria Valley Water District.

PUBLIC HEALTH AND SAFETY:

The continued operation and maintenance of the TTEPS is critical to prevent catastrophic failure or loss of water conveyance to 250,000 residents on the South Coast of Santa Barbara County. None of the agencies have storage capacity large enough to store more than a week's supply of water, and some can only store several days' worth, so even a short disruption could result in an interruption to maintaining delivery of potable water for public health and safety.

FUNDING, CHALLENGES & POTENTIAL SOLUTIONS:

The TEPS was built at a cost of \$4.1 million and ongoing annual operations and maintenance costs are \$1.5 million. These costs were shared across four South Coast agencies, and grant funding was provided by the State in the amount of \$3.1 million, but the ongoing costs and additional expenses associated with continued drought conditions have been a challenge for local agencies. While all the agencies that benefit from the TEPS have raised their rates, depending on the length of time the TEPS needs to remain in place, the level of maintenance required to keep it online, and how often it needs to be relocated as lake levels fluctuate, additional funding is required to ensure its continued operation.

Grant funding may be available through USBR WaterSMART Grant/Drought Resiliency Program or Santa Barbara County IRWMP. Limitations exist regarding potential eligibility, maximum funding amounts, competition for funding/awards and timing issues, especially since expenses such as mobilization for moving the barge are a nontraditional grant fit. Debt financing may be available through the California Drinking Water State Revolving Fund or through other local financial institutions. However, challenges exist on debt financing including qualification and timing process. Capital and Operating budgets from participating Member Agencies are exhausted due to unanticipated costs resulting from drought emergency financial implications and decreased water sales revenue.

DISCUSSION:

Cachuma Lake is owned and operated by the U.S. Bureau of Reclamation (Reclamation). Reclamation has permits from the State Water Resources Control Board (SWRCB) for the continuing operation and maintenance of the Cachuma Project diverting water from the Santa Ynez River.

Due to the ongoing drought and the critical need for a reliable and uninterrupted water supply, the pipeline project was implemented in 2014. Drought conditions continue in Santa Barbara County with water levels in Lake Cachuma receding such that originally designed gravity flow is no longer available to provide continued, reliable delivery of Cachuma Project water, State Water and supplemental purchased water to over 250,000 residents on the South Coast of Santa Barbara County.

The Temporary Emergency Pumping Facility Project – consisting of a pumping barge with seven variable speed pumps, a floating 10,100 foot conveyance pipeline, approximately 100 installed anchor pilings, a tower appendage connection, and electrical supply and cabling – was constructed and installed in 2014 and in 2016. Sustained operations of the barge facility at the first location began in August 2015 and the barge facility was moved to deeper waters in the lake in late June of 2016.

As lake levels fluctuate with winter storms, it may be necessary to move the barge facility to prevent damage and interruption from flood debris. If lake levels rise above 670' elevation, the barge facility must be relocated back to the original site for operation or it is at risk to be torn loose from its moorings. The TEPS is likely to remain in service for at minimum several months, assuming enough inflow occurs this winter to bring the lake back to gravity feed conditions. However, given the severe drought conditions, it is possible the TEPS will need to operate intermittently for several more years, requiring significant funding to keep the system operational as lake levels rise and fall during continued drought conditions.

IMPACTS:

Fiscal – The ongoing costs of maintaining the temporary facility has placed additional financial burdens on previously strained district budgets. The temporary EPS is operated under a lease-operate contract. As the drought continues and conditions require ongoing operations it may be more economical to purchase the TEPS equipment and/or begin operating the facility by agency staff.

- Annual O & M costs - \$1,500,000
- Estimated relocation costs – \$500,000
- Estimated facility and pipeline acquisition costs - \$1,500,000

Operational – The EPS provides water conveyance for a community of over 250,000 residents. Without continued operation of this project, the community would face a catastrophic failure and South Coast water purveyors would be unable to obtain Cachuma water, state water and supplemental water to meet regional demands.

Sociopolitical – The project has been operating since 2015 with a collaboration of stakeholders who support a temporary EPS project. This temporary facility is intended to serve through the duration of the current drought and is not a permanent project.

Environmental – All required permits have been received and are current for the regional project.

ACTIONS NEEDED:

Funding for financial relief is requested for maintenance, potential relocation, and possible acquisition of components critical to ensuring the continued operation of the temporary EPS as the life-line infrastructure water conveyance facility from Lake Cachuma to the South Coast of Santa Barbara County.

Interagency Intertie Project between Goleta and Santa Barbara

PROJECT DISCRIPTION:

This project will provide an emergency water supply by providing a larger intertie between Santa Barbara and Goleta, while also benefiting Montecito and Carpinteria. By constructing a high capacity intertie between Santa Barbara and Goleta to facilitate the delivery of water between systems on the South Coast, the overall reliability of the region’s water supplies will be improved.

REGIONAL BENEFIT:

The Intertie Pump Project between Goleta and Santa Barbara (Intertie) involves construction of a new, larger connection (interconnect) between the water distribution systems of the Goleta Water District (GWD) and the City of Santa Barbara. The project would allow neighboring agencies to provide mutual assistance to one another in the event of an emergency such as a transmission line failure, earthquake, wildfire, or for a planned system shut down for repairs or maintenance. Since Santa Barbara is also connected to Montecito and Carpinteria, the regional benefit would extend to the entire South Coast.

HOW IT ADDRESSES HEALTH AND SAFETY:

While the project does not provide for additional water supplies, it does increase reliability. Currently, the Goleta Water District and the City of Santa Barbara are limited in their ability to supply or transfer water from one system to another in the event of an emergency or major water treatment plant problem. The Interconnect project increases regional water supply reliability by providing for the ability to exchange large volumes of water between the two systems.

The interconnect would allow both agencies to convey between 3 to 4 million gallons of treated water per day (gpd) to one another in the event of an emergency (i.e., wildfire, drought, earthquake), during shutdowns of GWD or SB water system facilities, and during periods of high demand when supplemental supplies may be needed. The project would also help to mitigate downstream peaking impacts along the South Coast Conduit, as well as maximize the use of the limited regional storage facilities. The proposed booster pumping station will include data collection capabilities and will allow for the monitoring of the transfer of water from one agency to the other.

FUNDING, CHALLENGES & POTENTIAL SOLUTIONS:

This project has been included in the Integrated Regional Water Management Plan of Santa Barbara County. The total cost of the project is \$5 million, and the project is eligible for grants under Proposition 1 and IRWMP. This project may also qualify for emergency preparedness grants.

DISCUSSION:

The alternative to the project would be to use the existing smaller interties in the system located at Willowbrook, St. Vincent’s, and Modoc. These interties allow for up to 800,000 gpd to be moved between the systems. However, the Modoc intertie cannot be operated while the Goleta Water District wells are running, which given current drought conditions is continuous.

IMPACTS

Fiscal – Competes with other immediate concerns for drought related projects, especially those related to developing new water supplies, water quality, and large-scale conveyance and regional water system reliability.

Operational – Water quality and distribution issues related to blending of different water sources would need to be examined and proactively addressed.

Legal – N/A

Labor – N/A

Sociopolitical – N/A

Policy – In advance of a project, operational protocols and various agreements regarding exchanges and mutual aid will need to be established.

Health and safety – Beyond the water quality issues noted above, the needs of the dialysis center on the City of Santa Barbara side would also need to be reviewed and addressed.

Environmental – The CEQA process has not been initiated, but significant opposition is not anticipated.

Interagency – A project would require funding and approval by the City of Santa Barbara and Goleta Water District. As the two agencies are the two treatment points on delivery of water to the South Coast, benefits could also extend to other South Coast agencies.

ACTIONS NEEDED:

Funding in the form of grants or matching funds are needed to move the project forward.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	February 27, 2017
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Quiota Creek Crossing 4 Fish Passage Improvement Project, Final Report

SUMMARY:

Project Description: A 54-foot prefabricated bottomless arched culvert with four wing walls replaced the pre-existing concrete low flow crossing at Quiota Creek Crossing 4. The project removed a fish passage barrier and opened up unimpeded juvenile and adult fish passage for the endangered southern steelhead to NMFS designated critical habitat upstream. Also, the project improved road safety and accessibility for the landowners and the public along S. Refugio Road. There were no issues with any of the constructed project elements throughout the recent high flow events.

Project Location: The nearest town is Santa Ynez. Quiota Creek Crossing 4 is located off of Hwy 246 via Refugio Road 4.5 miles south of Hwy 246. The road is closed at the project site.

Contractor: Peter Lapidus Construction (PLC); the construction contract who won the competitive bid, was issued a Notice to Proceed on 9/30/16 for \$695,629.

Design Engineer: Michael Garelo, HDR Fisheries Design Center.

Resident Engineer: Gino Filippin, Filippin Engineering.

County Engineers: Ron Bensel, Steven Manuel, Eric Pearson, Bert Johnson, and Jemmi Irabon.

Project Status and Timetable (as of the Board meeting date):

Status	Time
Notice to Proceed	9/30/2016
Construction start	10/3/2016
Refugio Road closure	10/3/2016
Contract Time (approximate to complete all work)	2.5 months
Completion Date and Refugio Road reopened	12/21/2016
Number of construction work days (WD*)	55
Elapsed Time (WD)	55
Remaining Time (WDs to complete all work)	0
Time Elapsed to Date (%)	100%
*WD: Working Days.	

Work Performed to Date: The project started on 10/3/16 and was completed on 12/21/16 when the County approved the project and S. Refugio Road was opened to the public. The project was successfully completed as designed (Figures 1 and 2 included as Exhibits). The County, regulatory agencies and

landowners were pleased with the outcome of the project. PLC did an excellent job with the project and kept project costs within budget. A Notice of Completion has been filed with the County. Final reports and a grant reimbursement request have been submitted to all regulatory agencies. The As-Built drawings and project Construction Binder has been submitted to the County for their review and approval.

Work Projected for Next Month: Submit Receive final approval of the As-Built drawings and project Construction Binder at which point the County will sign off on the project Encroachment Permit and all permit obligations (permit closure and final fee, if any) can be completed.

FINANCIAL IMPACT:

A summary of the estimate and current project expenses is provided in the following table.

	Amount	
Revenues:		
CDFW grant	\$938,295	
COMB services match	\$68,420	
COMB operating expenses match	\$43,059	
COMB construction match	\$50,000	
	Total: \$1,099,774	
Estimated Costs:		
COMB operating expenses (match)	\$43,059	
Construction Engineer's Estimate	\$732,545	
Contech bridge fabrication estimate	\$200,000	
	Total: \$975,604	
Contracted Construction:		
Construction Contract (PLC)	\$695,629	
ConTech Contract Amount	\$195,278	
Change Order 1 (root wad + additional toe of slope rock + grading) (approved):	\$38,520	
Change Order 2 (modifications for bridge rail install, and additional tree wells, tree holes and a second mobilization for hydro-mulching/seeding) (approved):	\$3,887	
	Adjusted Construction Contract Amount: \$933,314	
Amount		
Total Expenditure:	FY17	FY16
PLC - Invoice 1:	\$83,000	
PLC - Invoice 2:	\$194,866	
PLC - Invoice 2:	\$417,763	
PLC - CO-1 (approved):	\$38,520	
PLC - CO-2 (approved):	\$3,887	
ConTech Bridge (deposit):	\$65,093	
ConTech Bridge (final + tax):	\$129,582	
Geotechnical Services (Fugro) - Invoice 1:	\$1,632	
Resident Engineer - Gino Filippin (site construction) - Invoice 1:	\$6,057	
Resident Engineer - Gino Filippin (site construction) - Invoice 2:	\$3,843	
Resident Engineer - AECOM (fabrication) - Invoice 1:	\$6,405	
Materials Testing - Fugro (site construction) - Invoice 1:	\$3,071	
Materials Testing - Fugro (site construction) - Invoice 2:	\$3,561	
Materials Testing - Fugro (site construction) - Invoice 3:	\$1,200	
Materials Testing - Krazan (Bethlehem) - Invoice 1:	\$7,493	
Materials Testing - Krazan (Bethlehem) - Invoice 2:	\$1,550	
COMB Legal Counsel Bid Packet + Contract review:	\$368	
Manzanita Nursery (mitigation oak trees) - Invoice 1:	\$392	
Tri-Co Reproduction - all invoices:	\$542	
SB County Encroachment Permit Fee:	\$20,303	\$10,000
CDFW 1600 Permit Fee:		\$4,912
	Total Paid:	\$989,128 \$14,912
% Estimated Costs to Total Expenditures:	101.4%	
Estimated Costs minus Total Expenditures:	-\$13,524	
Revenues minus Total Expenditures:	\$110,646	

The project cost ended up 1.4% (\$13,524) over the estimated cost due to Change Order 1 (CO-1) for unexpected work, specifically the placement of a root wad upstream and toe of slope bank stabilization rock downstream. The total cost of the project is well below revenues secured for the project; hence the project came in under budget (see the summary table above). A second Change Order (CO-2) was submitted and approved for needed modification to the bridge headwalls for the bridge rail installation, additional tree wells due to County requests, moving mitigation trees due to County requests and a second mobilization for hydro-mulching/seeding. We are awaiting the final closure of the County Encroachment Permit which may have an additional associated fee charge.

LEGAL CONCURRENCE:

COMB legal counsel has reviewed and approved the project.

ENVIRONMENTAL COMPLIANCE:

All permits have been obtained and were carefully followed.

COMMITTEE STATUS:

The Fisheries Committee reviewed the project financial report on 1/13/17 and recommended taking it to the Board.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

Construction photos:



Figure 1: Pre-project condition looking (a+b) upstream over the crossing.

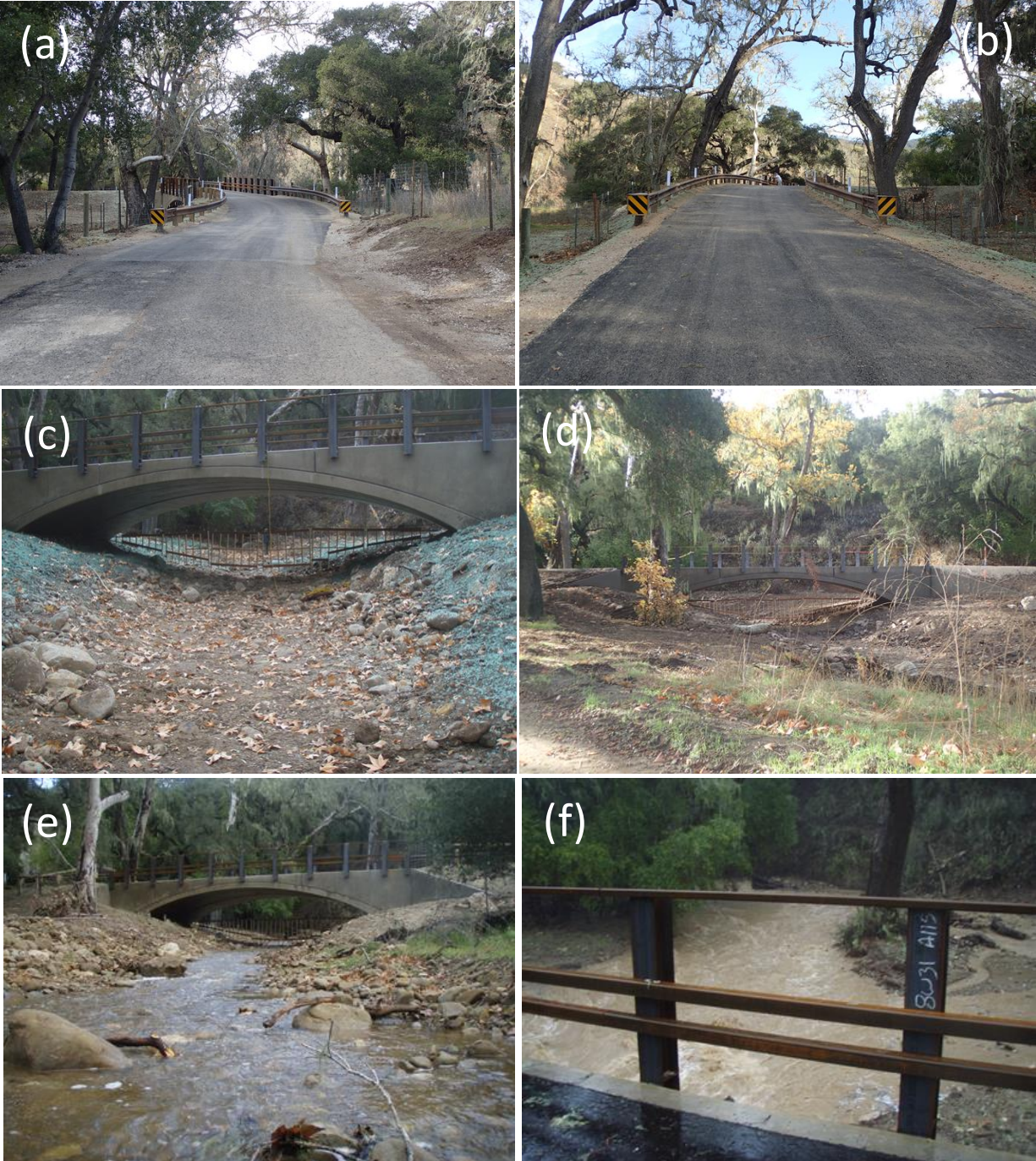


Figure 2: The completed project looking (a) north across the bridge, (b) south towards the bridge, (c) upstream at the bridge, and (d) downstream at the bridge, and during the (e) 1/18/17 storm and (f) 2/17/17 storm.



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.”

February 27, 2017

General Manager Report

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

Administration

Staff has been working on revisions to the draft procurement policy and draft Board administrative policy which will soon be presented to the Administrative Committee for discussion and review prior to submission to the Board. These policies will ultimately be included in the comprehensive COMB Policy Manual currently under development.

Personnel

COMB recently experienced staffing changes in the Administrative Division due to a retirement, a shift in personnel and hiring for a vacant position. The new administrative staff brings excellent experience, knowledge and professionalism to the Administrative Division and to COMB. The team has been working diligently together during this transition time supporting the Operations and Fisheries Division Managers and staff while becoming familiar with internal processes and procedures within the organization.

Financial

- Cachuma Project Estimated Costs – FY 2017-18

For budget planning purposes, staff will provide Cachuma Project estimated costs pertaining to water year and fiscal year 2017-18 to the Member Agencies. These estimations include the 1st period and 2nd period U.S.B.R. operation and maintenance pass through costs for the Cachuma Project, the COMB estimated annual operating budget for FY 2017-18, the projected Cachuma Project Renewal Fund payment, the Bradbury and Lauro Safety of Dams annual payments, and the annual water rights fee pass through payment.

- Budget Schedule – FY 2017-18

As requested by the Board, the table below depicts the approximate schedule for development, submission and adoption of the COMB Fiscal Year 2017-18 Operating Budget and affiliated documents.

Cachuma Operation & Maintenance Board					
Preliminary Budget Process Schedule					
FY 2017-18 Operating Budget	<i>Feb</i>	<i>March</i>	<i>April</i>	<i>May</i>	<i>June</i>
<i>Updates to Infrastructure Improvement Plan, Habitat Improvement Plan, General and Administrative Projected Operating Expenditures</i>	X	X			
<i>FY 2017-18 Draft Budget Document Developed</i>		X	X		
<i>Draft Budget Internal Review Process</i>			X	X	
<i>Administrative Committee Draft Budget Review</i>				X	
<i>Board Draft Budget Review</i>				X	
<i>Update Draft Budget - Prepare Final Budget</i>				X	
<i>Board Adopts Final Operating Budget</i>					X

Operations Division Activities

- Drought Emergency Pumping Facility Project (EPF)

COMB Operations staff has been engaged with Santa Barbara County Flood Control to receive daily Santa Ynez River Forecast model updates from realized and anticipated storm systems. Staff has been in continual communication with HDR Engineering and Cushman Contracting Corp. regarding the potential need to relocate from site 2 to site 1 or off the lake if increased inflow conditions occur with storm events.

Due to the recent series of storms and rapid reservoir increase, the EPF has been demobilized from both locations and remains anchored at the site 1 location on the lake beside the contractors working barge. The associated pipeline and mooring piles are stored at areas adjacent to and above the shoreline. The PGE electrical transformer is located at a higher elevation and will be removed prior to submergence and consequential inaccessibility of the road. HDR Engineering is developing the analysis for options on the disposition of the system. This analysis will be presented to the Member Agencies and the Operations Committee prior to submission to the Board.

The Central Coast Water Agency has removed the temporary state water bypass line from Bradbury Dam and has been using the penstock to deliver state and supplemental water to the lake. The need to remove the temporary line was due to the rapidly rising reservoir with the elevation of the gate sill at 720'.

- Lauro Diversion Valve Replacement Project

The installation of the Lauro Diversion Valve was recently re-scheduled for Tuesday, February 28th due to the contractors' obligation related to the Emergency Pumping Facility project at Lake Cachuma.

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

Fisheries Division Activities

Fisheries Division personnel continue to conduct the annual oak tree inventory. Year nine tree planting will be commencing soon at the Santa Barbara County Park. Beaver Dam surveys were completed in February and staff has finalizing maps of beaver dam locations. All Fishery Division staff visited the Fillmore Fish Hatchery on January 31st for fish handling training and started trapping shortly thereafter in Salsipuedes Creek and Hilton Creek.

Staff installed and operated upstream and downstream migrant traps at Salsipuedes Creek from Sunday February 12th to Thursday February 16th. Field crews have secured equipment and moved both the Hilton Creek and Salsipuedes Creek traps to higher ground last Thursday in preparation of high flows from the storm event. Crews also moved the temporary cattle exclusion fencing in Salsipuedes Creek to higher ground on Thursday in preparation of the weekend storm. Several of the cattle picket fencing underneath the Quiota Creek crossing sustained minor damage during the January storm event and staff has made necessary repairs at the crossings.

Fish rescue surveys have been conducted within Hilton Creek and the Highway 154 Reach on Reclamation property as needed. Several high flow events in Hilton Creek in January and February have enabled *O. mykiss* to move upstream and downstream from the secure section of the drainage (location where Stilling Basin pumped flows have kept fish and habitat static the past several months). No *O. mykiss* have been observed outside of the secured section of Hilton Creek over the past few weeks.

Staff attended the 2017 Fish Restoration Grant Program (FRPG) grant meeting in Camarillo. The new grant cycle for State funding has started and grants will be due at the beginning of April.

Respectfully Submitted,

Janet Gingras

General Manager

EMERGENCY PUMPING FACILITY PROJECT FY 2016/2017

Attachment A

AS OF: 1/31/2017

FY 16/17 APPROVED BUDGET

Emergency Pumping Facility Project

ACCT #6120

\$ 2,160,374.00 Total Budget Approved FY 16/17

FY 16/17 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Cushman Contracting	2,060,374.00	896,183.90	1,164,190.10	Construction - Phase II/Operations
HDR Engineering	100,000.00	51,156.89	48,843.11	Contract Management tasks
Musick, Peeler & Garrett	-	172.50	(172.50)	Legal costs
American Riviera Bank	-	7,045.23	(7,045.23)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	-	-	Materials, supplies, Permits, etc.
Totals	\$ 2,160,374.00	\$ 954,558.52	\$ 1,205,815.48	

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

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

**Participating Member Units were assessed Actual Expenditures only.*

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

COMBINED FY 13/14; 14/15; 15/16 & 16/17 Totals			
	BUDGET	EXPENDED	BALANCE
	\$ 9,981,189.00	\$ 8,238,298.73	\$ 1,742,890.27

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: February 27, 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 January was 222.7 acre-feet, for an average daily flow of 7.183 acre-feet. Lake elevation was 649.14 feet at the beginning of the month and 660.7 feet at the end. Storage change increased 9009 acre-feet. CCWA wheeled 1437.2 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:

- ✓ Osha's Top 10 Citations for 2016
- ✓ Saw / Grinder Safety
- ✓ Be an Extra Safe Driver

COMB Operations Staff specifically performed the following activities:

- Due to an increase in the lake elevation the EPFP Barge was moved back to Site #1 on February 12, 2017.
- Following several days of significant rain and continued increases in the lake elevation the EPFP Barge was turned off Friday February 17, 2017 at 12:00PM and decommissioned Saturday February 18, 2017. Flow control will now be achieved via the intake tower and gravity system.
- During an inspection of SCC facilities following the recent rains staff discovered a small landslide had occurred which exposed a small portion of the conduit. The area was covered and lined with sandbags to prevent any further movement of soil or damage to the conduit.
- Inspected and monitored operations of Lauro Reservoirs debris basins during the major rain event.
- Removed any standing water from the six structures containing Air Vacuum Air Release (AVAR) valves along the Lower Reach of the South Coast Conduit (SCC), following recent rains.
- Pre-construction work on the Lauro Stop Valve, tentatively rescheduled for replacement on February 28, 2017.
- Cleaned the valve pits at Ortega Reservoir, Lauro Reservoir, Carpinteria Reservoir, and Sheffield Control Station in storm preparation.
- Cleaned and repaired storm drains at Glen Anne, Lauro, Ortega, and Carpinteria Reservoirs, following the storm-induced build-up of debris and fallen trees.

Current IIP projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation & Replacement
- Lauro Stop Valve Replacement
- Development of Protocols for System Isolation
- North Portal Access Road
- North Portal Jet Flow Control Valve
- Lauro Tunnel Pipe Supports

Landslide at Sycamore Rd. and Coyote Rd.



Landslide at Sycamore Rd. and Coyote Rd. (Temporary Repair)



CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: February 27, 2017
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- Water delivery to Hilton Creek continues to be conducted by USBR through a submersible pump in the Stilling Basin that is pumping water to the Lower Release Point of Hilton Creek. Water quality conditions are acceptable for the Hilton Creek *O. mykiss* population.
- Recent large storms have caused Hilton Creek to flash during the 1/21/17 and 2/18/17 storm events. In both cases, stream flow was sufficient to reach the LSYR Long Pool, the second filling and spilling it.
- The migrant trapping program began this month as traps were installed at both Salsipuedes and Hilton creeks.

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.

Migrant Trapping: The 2017 Trapping Plan was submitted to Reclamation in January with no comments received. This monitoring effort normally begins in January and continues through May depending on stream flow rates. This year the Salsipuedes Creek traps were installed on 2/12/17 and the Hilton Creek traps on 2/21/17. Traps are removed during high flow events for safety of the staff, fishery and equipment. Results of the trapping program are presented in the Annual Monitoring Report.

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 one redd has been observed across the basin which was seen in Hilton Creek just prior to the 2/18/17 storm.

Beaver Dam Surveys: The Water Year 2017 beaver dam survey within the Lower Santa Ynez River basin was completed and the results submitted to USBR and SYRCWD. The results will be included in the Annual Monitoring Report.

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 from a Submersible Pump placed in the Stilling Basin to the Lower Release Point: U. S Bureau of Reclamation (USBR) continues to provide flow to Hilton Creek through an USBR installed small submersible pump with backup pump on the south side of the Stilling Basin that is connected to the Chute Release Point of the Hilton Creek Watering System and allows water to be pumped directly to the Lower Release Point (LRP) of Hilton Creek. The system continues to successfully provide just enough water to sustain the remaining population of *Oncorhynchus mykiss* (*O. mykiss*) in Hilton Creek. Water quality conditions in Hilton Creek are being monitored at several locations. Water storage in Lake Cachuma as of 2/21/17 has climbed over 80,000 af and well beyond critical drought conditions. It is anticipated that Reclamation will soon be delivering BiOp required fish water releases to Hilton Creek of a minimum of 2 cfs.

Tributary Project Updates:

Quiota Creek Crossing 0A: COMB received a 2014 CDFW-FRGP Grant for \$671,635 with a landowner construction match of \$50,000. The COMB Board approved the project through Resolution 612 on 5/23/16. The project broke ground on 10/13/16 and was successfully completed on 12/15/16 on time and within the budget. All are very pleased with the results of the project. The final financial report for the project will be provided at the next COMB Board meeting.

Quiota Creek Crossing 4: COMB was awarded a 2015 CDFW-FRGP Grant on 3/30/15 for \$938,295 with a COMB construction match of \$50,000. The project broke ground on 10/3/16 and was successfully completed on 12/21/16. A final Board memo with closing financials is provided in a separate memo.

Quiota Creek Crossing 5: As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. If funded, the project would most likely be built in the fall of 2017 pending design approval and permit acquisition.

Quiota Creek Crossing 8: This project and the required Cooperative Agreement with the County 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. We are now working on a Professional Service Agreement for COMB with the County to manage the project. Once completed, we will go through the CalTrans process for obtaining a Project Engineer and begin grant expenditures (March 2017), hold a

field review meeting with CalTrans (March 2017), and then begin environmental review, permitting, design, flood area certificates, and Right of Way in April 2017. Pending the above, the project would be built in fall 2017 or 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. An additional contract modification (Mod-005) is in process to have the contractor install security fencing and lighting for the HCEBS. With this system fully operational, USBR can now work on the identified repairs to the HCWS which will be scheduled at some point. No work or maintenance has been conducted by USBR on either of these water delivery systems this past month.

Surcharge Water Accounting

The following table summarizes the amount of Surcharge water used to date from each of the three accounts at the end of last month (Table 1). All numbers come from USBR’s Daily Operations Report. The start time for the use of the Surcharge Water Accounts was 5/27/11, or the last day of full surcharge. As of May 2012, all of the Fish Rearing Account waters have been used and USBR is now using Project Yield to meet BiOp target flows. A WR 89-18 release began on 7/15/13 and ended on 12/2/13, another began on 8/18/14 and ended on 11/11/14, another began on 8/3/15 and ended on 9/26/15, and the 2016 WR 89-18 release started on 7/12/16. During these releases, no Fish Rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. What remains of the AMA is 351 acre-feet. There have been no releases from the Fish Passage Supplementation Account (FPSA). Determination of critical drought and the associated accounting and possible usage of the AMA and FPSA have not been finalized and approved by NMFS hence is not reflected in Table 1. No fish water during October was debited to any account due to extraction from the Stilling Basin below the dam and release to Hilton Creek below the dam.

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

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	0	3,200
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		15,022	
Total:	9,184	20,655	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 1/31/17.			
*** 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 0A, 4, 5 and 8 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:	February 27, 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 – 2/27/17, 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**
Year 8 Oaks (2015-2016)	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Mulched		
Year 7 Oaks (2014-2015)	Irrigated Weeded Mulched	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded	Irrigated Weeded			
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								
* Annual Report								
** New Oak Tree Planting (Year 9)								

The Fisheries Division irrigated the trees up until the end of November when enough rainfall occurred to cease watering activities for the remainder of the calendar year. With additional storms this winter, natural

irrigation is providing plenty of water to all of the planted oak trees. The annual oak tree inventory began in January and should be finalized within the next few weeks (Exhibit 1). Inventory work is also being completed in between trap checks (day and night). Crews will also finish adding a fresh layer of mulch to the Year 8 trees, followed by the Year 7 trees this winter and spring.

RECOMMENDATION:

For Board information only.

LIST OF EXHIBITS:

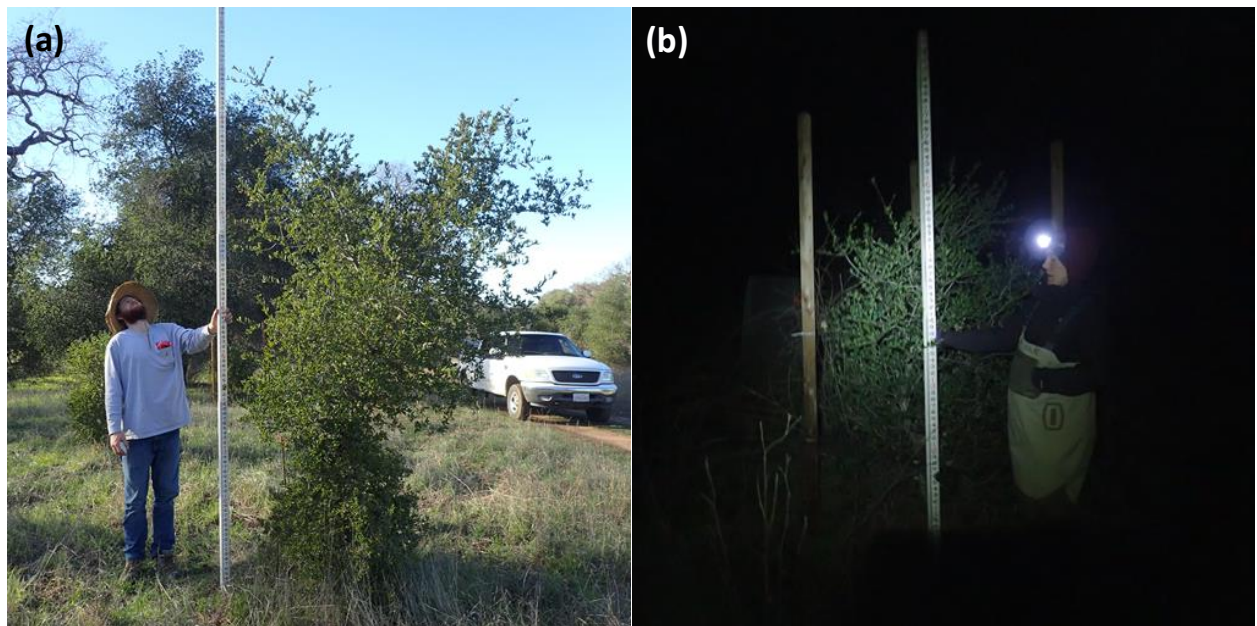


Exhibit 1: Lake Cachuma Oak Tree Restoration Program showing (a) daytime and (b) nighttime inventory work.

CACHUMA OPERATION AND MAINTENANCE BOARD
METERED USE REPORT FOR JANUARY 2017

LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT		
Boundary Meter - East		0.00
Boundary Meter - West		0.00
SWP CREDIT (Warren Act Contract) 0.00		
TOTAL		0.00
Note: Meter reads were taken on 1/31/2017		

LATERAL/ STATION	NAME	ACRE FEET METERED
GOLETA WATER DISTRICT		
18+62	G. WEST	2.37
78+00	Corona Del Mar FILTER Plant	55.32
122+20	STOW RANCH	0.00
	Bishop Ranch (Wynmark)(Water Rights)	0.00
	Raytheon (SWP) (Warren Act Contract)	0.00
	Morehart (SWP) (Warren Act Contract)	(2.00)
	SWP CREDIT (Warren Act Contract)	(55.69)
TOTAL		0.00
MONTECITO WATER DISTRICT		
260+79	BARKER PASS	16.64
386+65	MWD YARD	2.50
487+07	VALLEY CLUB	0.00
499+65	E. VALLEY-ROMERO PUMP	35.76
510+95	MWD PUMP (SWD)	1.90
510+95	ORTEGA CONTROL	0.01
526+43	ASEGRA RD	0.97
555+80	CO. YARD	0.00
583+00	LAMBERT RD	0.00
599+27	TORO CANYON	0.01
	SWP CREDIT (Warren Act Contract)	(57.79)
TOTAL		(0.00)
CITY OF SANTA BARBARA		
CATER	INFLOW	414.99
CATER	SO. FLOW	(158.37)
Gibraltar	PENSTOCK	(52.19)
Sheffield	SHEF.LIFT	68.46
	STANWOOD MTR TO SCC-credit	0.00
	SWP (Warren Act)	(262.89)
	La Cumbre Mutual SWP (Warren Act)	(10.00)
TOTAL		(0.00)
SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
COUNTY PARK, ETC		0.93
TOTAL		0.93
BREAKDOWN OF DELIVERIES BY TYPE:		
STATE WATER DELIVERED TO LAKE		1437.80
STATE WATER TO SOUTH COAST (including from storage)		(388.37)
BISHOP RANCH DIVERSION		0.00
METERED DIVERSION		0.93

16-17 ENTITLEMENT

CACHUMA OPERATION AND MAINTENANCE BOARD WATER PRODUCTION AND WATER USE REPORT FOR THE MONTH OF JANUARY 2017 AND THE WATER YEAR TO DATE

(All in rounded Acre Feet)

							MONTH TOTAL	YTD TOTAL
WATER PRODUCTION:								
Cachuma Lake (Tec. Diversion)							223	3,147
Tecolote Tunnel Infiltration							100	205
Cachuma Lake (County Park)							1	7
State Water Diversion Credit							388	2,190
Bishop Ranch Diversion							0	0
Meter Reads							1	1,190
So. Coast Storage gain/(loss)							(74)	(86)
Total Production							323	3,360
Total Deliveries							315	3,293
Unaccounted-for							8	66
% Unaccounted-for							2.50%	1.97%
WATER USE:								
	GWD	SB CITY	MWD	CVWD	SYRWCD	I.D. #1	TOTAL	
M&I	0	0	0	0	1	1		
Agricultural	0	0	0	0	0	0		
	0	0	0	0	1	1		
Unaccounted Reconciliation - Cachuma:								
M&I	0	0	0	0	0	0	0	
Agriculture	0	0	0	0	0	0	0	
Unaccounted-for: Cachuma	0	0	0	0	0	0	0	
Unaccounted-for: SWP Report	0	4	3	1	0	0	8	
Total Unaccounted-for:	0	4	3	1	0	0	8	
TOTAL USE for Month	0	4	3	1	1	1	1	
Same Mo/prev. yr	0	34	87	0	1	122		
M&I Yr to date	0	1,115	291	0	7	1,413		
Ag. Yr to date	0	0	54	0	0	54		
TOTAL YTD	0	1,115	345	0	7	1,467		
USAGE % YTD	13.7%	100%	100%	0%	41.7%	77.4%		
Previous Year/YTD	1,447	1,635	776	299	5	4,162		
Evaporation #	2	0	0	0	0	2		
Evaporation, YTD	77	124	33	0	3	237		
Entitlement ***	0	0	0	0	0	0		
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	561	1,239	377	0	24	2,201		
REMAINING BALANCE	484	0	0	0	14	497		
Percentage Remaining	86%	0%	0%	0%	58%	23%		

*** Per USBR advisory letter dated 10/21/2016 to SB County Water Agency, zero (0) af entitlement allocated.

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

State Water Deliveries to Lake Cachuma for January: MWD 357 AF; CVWD 219 AF
GWD 467 AF(Morehart 2 AF); City of S.B. 357 AF; and LaCumbre 35 AF: (Ratheon 0 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 January 2017.

Per USBR email dated 12/23/2015, evap charged to unallocated water until unallocated water is exhausted.
Unallocated water was exhausted during the month of July 2016. Prorated evaporation applied.

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **JANUARY 2017**

GLEN ANNIE RESERVOIR

Capacity at 385' elevation:	518	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	337.00	Feet
Water in Storage	35.04	AF

LAURO RESERVOIR

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	542.80	Feet
Water in Storage	388.53	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	446.20	Feet
Water in Storage	17.03	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	376.80	Feet
Water in Storage	27.50	AF

TOTAL STORAGE IN RESERVOIRS

	440.60	AF
Change in Storage	-74.04	AF

CACHUMA RESERVOIR*

Capacity at 750' elevation:	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF
Stage of Reservoir Elevation	660.70	Feet
Water in Storage	24,867	AF
Surface Area	841	
Evaporation	60.9	AF
Inflow	7,305.2	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	0.0	AF
Outlet	0.0	AF
Spill/Seismic Release	0	AF
State Water Project Water	1437.8	AF
Change in Storage	9,009	AF
Tecolote Diversion	222.6	AF

Rainfall:	Month: 8.81	Season: 13.07	Percent of Normal: 131%
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SUMMARY: UNACCOUNTED-FOR WATER ALLOCATIONS
JANUARY 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	0.1	0.2	0.0	0.0	0.4	0
City	0.8	0.0	0.3	2.9	0.2	0.0	4.2	4
MWD	0.2	0.5	0.1	0.7	0.1	1.3	2.9	3
CVWD	0.0	0.5	0.0	0.0	0.0	0.0	0.5	1
Total	1.1	1.0	0.5	3.8	0.3	1.3	8.0	8

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. 1/31/17

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT			
	M & I	Agr		Total	M & I	Div	Total	Evap	M & I	Allocation	Agr	M & I	Agr
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	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0

CONVERSIONS

STORAGE WATER		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
M & I	Agr	M & I	Agr	M&I	AG
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
Total	0	0	0	0	0

Month	REMAINING BALANCES		SCHEDULE AND REVISIONS	
	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	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	0	0	0	0

TOTAL

0

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		Carryover Previous Year	WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT		
	Current Year	Previous Year		Allocation		Total	M & I		Total
				Evap	Div		Agr	M & I	
	0	561							
Oct	0	0	0	37	0	37	0	37	0
Nov	0	0	0	29	0	29	0	29	0
Dec	0	0	0	9	0	9	0	9	0
Jan	0	0	0	2	0	2	0	2	0
Feb	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0
Total	0	561	0	77		77			

Month	STORAGE WATER		CONVERSIONS		SCHEDULES AND REVISIONS		
	M & I	Agr	CURRENT SCHEDULE		M&I	AG	AG
			M & I	Agr			
	0	0	0	0	412	149	0
Oct	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	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	0	0	0	0	561	412	149

Month	REMAINING BALANCES	
	M&I	AG
Oct	524	112
Nov	495	83
Dec	486	74
Jan	484	72
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	412	112

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. 1/31/17**

Approved Schedule Current Year: **0**
 Carryover Previous Year: **377**

Month	TOTAL WATER USED		WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT		
	M & I	Agr	Evap	Acre-feet		Allocation		M & I	Agr
				Div	Total	M & I	Agr		
Oct	176	36	25	212	237	197	40	0	0
Nov	115	18	8	132	140	121	19	0	0
Dec	0	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0
Total	291	54	33	344	377	377	0	0	0

STORAGE WATER		CONVERSIONS	
M & I	Agr	M & I	Agr
-40	40	0	0
0	0	0	0
0	0	0	0
0	0	0	0

SCHEDULE AND REVISIONS	
M & I	Agr
Begin Bal	0
Total	377

REMAINING BALANCES	
M & I	Agr
Total	140
Oct	19
Nov	0
Dec	0
Jan	0
Feb	0
Mar	0
Apr	0
May	0
Jun	0
Jul	0
Aug	0
Sep	0
TOTAL	0

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. 1/31/17**

Month	Approved Schedule		Carryover Previous Year	WATER USE CHARGED TO CARRYOVER BALANCES				WATER USE CHARGED TO CURRENT ENTITLEMENT		
	Current Year	Current Year		Evap	Div	Total	M & I	Agr	M & I	Agr
Oct	0	1239	0	474	474	555	555	0	0	0
Nov	0	0	393	393	393	431	431	0	0	0
Dec	0	0	243	243	243	248	248	0	0	0
Jan	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0
Total	0	1239	0	1,110	1,110	1,239	1,239	124		

Month	STORAGE WATER		CONVERSIONS		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	Agr
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	0	0	0	0	0
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Apr	0	0	0	0	0	0
May	0	0	0	0	0	0
Jun	0	0	0	0	0	0
Jul	0	0	0	0	0	0
Aug	0	0	0	0	0	0
Sep	0	0	0	0	0	0
Total	0	0	0	0	1,239	0

Month	REMAINING BALANCES	
	M & I	Agr
Oct	684	0
Nov	253	0
Dec	0	0
Jan	0	0
Feb	0	0
Mar	0	0
Apr	0	0
May	0	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Total	684	0

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

Contract Entity: Santa Barbara Co. Water Agency
 Last updated by C.O.M.B. 1/31/17

Contract Year: 10/1/16 to: 9/30/17

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT		
	Used %	Acre-feet		Evap	Acre-feet		Allocation		M & I	Acre-feet		
		M & I			Agr	Total	Div	Total		M & I	Agr	M & I
Oct	37.8%	652	36	688	145	688	832	755	77	0	0	0
Nov	65.2%	509	18	527	76	527	603	555	48	0	0	0
Dec	11.79%	246	0	246	14	246	260	251	9	0	0	0
Jan	0.14%	1	0	1	2	1	3	1	2	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		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		1,408	54	1,461	236							

CONVERSIONS

STORAGE WATER		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
M & I	Agr	M & I	Agr	M & I	Agr
-40	40	0	0	2,201	149
0	0	0	0	2,052	0
0	0	0	0	Begin Bal	0
0	0	0	0	Total	0

COUNTY PARKS		REMAINING BALANCES	
A.F. Used	M & I	M & I	Agr
1.72	1,257	112	0
1.72	683	83	0
2.60	501	74	0
0.93	426	72	0
	498		
	766		
	1,369		
	Total	Total	Total

TOTAL 498

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

MONTH	DELVRD TO LAKE	CIVWD		Delvd to SC	Evap/ Spill	Delvd to Lake	MWD	Delvd to SC	S.B.	Delvd to SC	GWD	Delvd to Lake	Evap/ Spill	Delvd to Lake	LCMWC	Delvd to SC	Evap/ Spill	Delvd to Lake	RSYS	Delvd to Lake	Delvd to SC	MLC		
		Delvd to Lake	Stored																			Delvd to Lake	Stored	Delvd to Lake
2016																								
Bal. Frwd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0	0	0
January	653	54	38	16	0	0	0	367	0	367	136	200	0	0	160	10	0	0	0	0	0	2	0	2
February	693	0	36	0	0	125	0	366	0	366	197	200	0	8	153	6	1	0	0	0	0	2	0	2
March	965	0	33	0	0	0	0	367	0	367	523	596	0	10	138	14	0	0	0	0	0	2	0	2
April	1283	0	0	29	0	0	0	677	178	476	24	600	696	5	87	49	2	3	0	3	3	0	3	3
May	1309	0	0	0	0	0	0	522	155	492	24	783	958	4	35	44	8	1	0	1	1	3	0	3
June	1261	0	0	0	0	0	0	466	112	463	26	700	982	5	85	0	0	5	0	5	5	0	5	5
July	1342	100	0	100	0	0	0	541	75	534	28	600	923	5	91	52	39	3	0	3	7	0	7	7
August	1372	135	135	0	0	0	0	549	615	0	0	600	869	4	80	51	75	3	0	3	5	0	5	5
September	1310	225	246	96	4	14	250	311	1035	0	240	460	62	87	55	51	5	0	0	0	4	0	4	4
October	1400	180	291	112	7	16	350	288	77	5	0	68	511	438	70	17	3	0	0	0	3	0	3	3
November	1369	150	401	24	0	16	328	533	48	0	15	490	529	347	60	53	3	2	0	2	2	0	2	2
December	1470	111	504	0	1	7	403	809	112	5	10	603	747	99	21	0	1	10	1	12	11	1.42	3	1
Total	14427	955	504	377	4	62	1456	809	602	20	25	5442	2098	3148	104	302	719	426	29	28	11	18.42	41	1

Notes:
 September 2016 - GWD transferred 170.64 AF SWP water to City of SB per overlap agreement
 November 2016 - GWD transferred 28.6 AF SWP water to City of SB per overlap agreement (monthly reconciliation)
 December 2016 - GWD transferred 10.12 AF SWP water to City of SB per overlap agreement (monthly reconciliation)

MONTH	DELVRD TO LAKE	CIVWD		Delvd to SC	Evap/ Spill	Delvd to Lake	MWD	Delvd to SC	S.B.	Delvd to SC	GWD	Delvd to Lake	Evap/ Spill	Delvd to Lake	LCMWC	Delvd to SC	Evap/ Spill	Delvd to Lake	RSYS	Delvd to Lake	Delvd to SC	MLC	
		Delvd to Lake	Stored																			Delvd to Lake	Stored
2017																							
Bal. Frwd	0	0	504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
January	1437	219	720	0	1	2	357	1102	58	3	467	0	8	35	23	10	2	0	11	0	2	1	2
February	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	0	11	0	1	0
March	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
April	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
May	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
June	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
July	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
August	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
September	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
October	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
November	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
December	0	0	720	0	0	0	0	1102	0	0	0	0	0	0	23	0	0	0	11	0	0	1	0
Total	1437	219	720	0	0	2	357	1102	58	0	3	467	8	35	23	10	2	0	11	0	2	1	2

Notes:
 January 2017 - GWD transferred 10.18 AF SWP water to City of SB per overlap agreement (monthly reconciliation) (USBR Daily Ops Reservoir storage 1/31/2017 - 24,867 AF)

Total Storage at month end (AF): 5179

CACHUMA DAILY OPERATIONS

Graph

Month & Year: February 2017

Time of Observations: 0830 Evaporation Pan Factor: 77%

Day	Beginning Storage:		Surface Area acres	Rainfall inches	Rainfall acre-feet	Evap. inches	Evap. acre-feet	CCWA Inflow acre-feet	Releases				Computed Inflow acre-feet
	Elevation ft	Storage acre-feet							Change acre-feet	S. Coast acre-feet	Hilton acre-feet	WR9918 acre-feet	
1	660.90	25036	169	843		0.024	1.3	44.1	0.0				126.4
2	661.07	25180	144	845	0.02	0.171	9.3	29.4	7.5				129.7
3	661.23	25315	135	847	0.12	0.334	1.8	46.5	15.4				97.6
4	661.60	25628	313	851	0.11	0.026	1.4	46.4	5.8				266.0
5	661.94	25919	291	855		0.081	4.4	46.4	2.9				252.1
6	662.33	26253	334	859	0.60	0.000	0.0	46.4	0.0				244.9
7	664.12	27814	1560	884	0.02	0.067	3.8	46.4	0.0				1516.3
8	665.54	29083	1269	905	0.50	0.000	0.0	46.3	28.8				1213.9
9	666.48	29943	860	923		0.119	7.0	46.2	56.3				877.3
10	667.10	30522	579	938	0.18	0.081	4.9	46.2	38.0				562.1
11	668.02	31395	873	958	0.70	0.190	11.7	46.1	0.0				782.5
12	668.98	32323	928	975	0.07	0.038	2.4	46.1	0.0				878.7
13	669.75	33079	756	989		0.043	2.7	46.0	0.0				712.2
14	670.33	33656	578	999		0.069	4.4	46.0	0.0				536.0
15	670.83	34159	503	1009		0.009	0.6	46.1	0.0				457.0
16	671.24	34576	417	1020		0.127	8.3	45.3	8.8				389.2
17	671.84	35192	616	1034	2.11	0.156	10.3	47.8	11.4				408.2
18	694.21	63290	28098	1476	5.34	0.230	21.8	48.2	2.1				27416.7
19	699.81	71886	8596	1593	0.11	0.008	0.8	32.1	0.0				8549.9
20	702.32	75939	4053	1635	0.53	0.460	48.3	44.9	0.0				3984.5
21	704.49	79541	3602	1685	0.05	0.144	15.6	44.9	0.0				3566.1
22	705.93	81994	2453	1717	0.01	0.068	7.5	44.9	0.0				2414.0
23	706.97	83794	1800	1741		0.128	14.3	44.7	0.0				1769.7
24													
25													
26													
27													
28													
29													
TOTALS		58,928		10.47	1109.2	2.273	182.7	1027.4	177.0	0.0	0.0	0.0	57,150.7

Park Usage Rain % Yr. Total



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



**Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: **January 2017****

Cachuma Lake Recreation Area Launch Data -- January 2017		
Inspection Data		
Total Vessels entering Park	8	
Total Vessels launched	8	
Total Vessels Quarantined	0	0%
Returning with Boat Launch Tag	0	0%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	8	100%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	0	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	0	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	0	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	0	
Demographic Data		
Quarantined from infected county	0	
Quarantined from SB County	0	
Quarantined from uninfected co	0	

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

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

* These conditions are no longer being tracked.

EARLY DETECTION MONITORING PROGRAM SUMMARY

Summary: No Dreissenid mussels were detected
 Inspection Site: Cachuma Lake Marina, Santa Barbara County, California
 Inspection Date and Time: 2017.01.29; 1:00 – 3:00 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: 659.06; Max acre-feet: 193,305, current: 23,501;
 Current capacity: 12.2%