

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

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

Monday, March 28, 2016

2:00 P.M.

AGENDA

- 1. CALL TO ORDER, ROLL CALL**
- 2. PUBLIC COMMENT** (Public may address the Board on any subject matter not on the agenda and within the Board’s jurisdiction. See “Notice to the Public” below. Please make your comments from the podium once acknowledged by the President of the Board.)
- 3. CONSENT AGENDA** (All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.)
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
 - a. Minutes February 12, 2016 Special Board Meeting
Minutes February 22, 2016 Regular Board Meeting
Minutes February 26, 2016 Special Board Meeting
 - b. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
 - d. Review of Pending Claims for Payment
- 4. VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Operations Committee Meeting – March 22, 2016
- 5. SUMMERS ENGINEERING, INC. PROPOSAL – WATERSHED SANITARY SURVEY**
Action: Recommend approval by motion and roll call vote of the Board
- 6. HDR ENGINEERING, INC. – DESIGN PROPOSAL FOR AVAR / BLOW-OFF STRUCTURE REHABILITATION**
Action: Recommend approval by motion and roll call vote of the Board
- 7. AECOM PROPOSAL – DEVELOPMENT OF ISOLATION PROTOCOLS**
Action: Recommend approval by motion and roll call vote of the Board

8. **QUIOTA CREEK CROSSING 3 FISH PASSAGE IMPROVEMENT PROJECT – REQUEST FOR CHANGE ORDER APPROVAL AND FINAL REPORT**
Action: Recommend approval by motion and roll call vote of the Board
9. **RESOLUTION NO. 611 – ACCEPTANCE OF GRANT AGREEMENT WITH CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE FOR FISH PASSAGE IMPROVEMENT AT QUIOTA CREEK CROSSING NUMBER FOUR**
Action: Recommend approval by motion and roll call vote of the Board
10. **FIRE PREVENTION WITHIN THE SANTA YNEZ RIVER WATERSHED**
For discussion and possible action by motion and roll call vote of the Board
11. **INTERIM GENERAL MANAGER’S REPORT**
Receive information from the Interim General Manager on topics pertaining to COMB, including but not limited to the following:
 - Operating Budget Development Process
 - Cachuma Member Unit Managers Meeting
 - Bradbury Dam Penstock Coordination Study Evaluation Meeting
 - Operations Division
12. **OPERATIONS DIVISION REPORT**
Receive information regarding Operations Division, including but not limited to the following:
 - Lake Cachuma Operations
 - Operation and Maintenance Activities
13. **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
14. **PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**
Receive information regarding the Lake Cachuma Oak Tree Program including but not limited to the following:
 - Maintenance and Monitoring
15. **MONTHLY CACHUMA PROJECT REPORTS**
Receive information regarding the Cachuma Project, including but not limited to the following:
 - a. Cachuma Water Reports
 - b. Cachuma Reservoir Current Conditions
 - c. Lake Cachuma Quagga Survey
16. **DIRECTORS’ REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

**17. [CLOSED SESSION]: CONFIDENTIAL PERSONNEL MATTER;
CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL
LITIGATION**

- a. [Government Code Section 54957]
Public Employee Appointment
PUBLIC EMPLOYMENT:
Title: General Manager
- b. [Government Code Section 54956.9(d)(2)]
Alleged Access Rights to Ortega Ridge Road,
Ocean View Estates Subdivision
- c. [Government Code Section 54956.9(d)(4)]
Protest of Member Agency Regarding Payment of Quarterly Assessments

18. RECONVENE INTO OPEN SESSION

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

19. MEETING SCHEDULE

- **April 25, 2016 at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**
www.cachuma-board.org

20. COMB ADJOURNMENT

NOTICE TO PUBLIC

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

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

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

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

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

**MINUTES OF A SPECIAL MEETING
of the
CACHUMA OPERATION & MAINTENANCE BOARD**

**held at
3301 Laurel Canyon Road, Santa Barbara, CA
Friday, February 12, 2016**

1. Call to Order, Roll Call

The meeting was called to order at 8:35 a.m. by President Doug Morgan, who chaired the meeting. Those in attendance were:

Directors present:

Doug Morgan	Montecito Water District
Harwood "Bendy" White	City of Santa Barbara
Kevin Walsh	SYR Water Conservation Dist, ID No. 1
Polly Holcombe	Carpinteria Valley Water District
Lauren Hanson	Goleta Water District

Others Present:

Gary Phillips	Adelle Capponi
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2. Public Comment

There was no public comment.

3. [Closed Session]: Public Employee Appointment

The Board went into closed session at 8:36 a.m.

- a. [Government Code Section 54957]

PUBLIC EMPLOYMENT:

Title: General Manager

*The Board broke for lunch at 11:45am then reconvened and continued
with Closed Session at 12:45pm*

4. Reconvene Into Open Session

[Government Code Section 54957.7]

Disclosure of actions taken in closed session, as applicable

[Government Code Section 54957.1]

The Board came out of closed session at 4:15 p.m.

- a. [Government Code Section 54957]

PUBLIC EMPLOYMENT:

Title: General Manager

There was no reportable action.

5. Meeting Schedule

- February 22, 2016 at 2:00 p.m., COMB Offices
- February 26, 2016 at 12:00 p.m., COMB Offices
- Board Packages are available on the COMB website at www.cachuma-board.org.

6. COMB Adjournment

There being no further business, the meeting was adjourned at 4:20 p.m.

Respectfully submitted,

Janet Gingras, Secretary to the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

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

held at
3301 Laurel Canyon Road, Santa Barbara, CA
Monday, February 22, 2016

1. Call to Order, Roll Call

The meeting was called to order at 2:03 p.m. by President Doug Morgan who chaired the meeting. Those in attendance were:

Directors present:

Doug Morgan	Montecito Water District
Harwood “Bendy” White	City of Santa Barbara
Kevin Walsh	SYR Water Conservation District, ID No. 1
Polly Holcombe	Carpinteria Valley Water District
Lauren Hanson	Goleta Water District

Others present:

Janet Gingras	Amy Smith
Dave Stewart	Adelle Capponi
Tom Fayram	Tim Robinson
Fray Crease	William Carter
Joshua Haggmark	Phil Walker
Dale Francisco	Kelley Dyer
Nick Turner	Larry Farwell
Bob McDonald	Phil Walker

2. Public Comment

Phil Walker spoke to the absence of this year’s predicted El Niño storms in the area.

Kelly Dyer expressed the City of Santa Barbara’s concern that an item regarding the relocation of the Emergency Pumping Facility Project’s pumping barge was not on today’s agenda.

Larry Farwell informed the Board that he has been investigating unaccounted for water for some time.

Joshua Haggmark echoed Kelly Dyer’s mention of the City of Santa Barbara’s interest to see the barge relocation item come before the Board as soon as possible. President Morgan advised Mr. Haggmark that the item would be considered no later than March 7, 2016.

3. Consent Agenda

a. Minutes

January 18, 2016 Special Board Meeting
January 25, 2016 Regular Board Meeting

b. Investment Funds

Financial Reports
Investment Reports
c. Review of Paid Claims
d. Review of Pending Claims for Payment

Director Hanson suggested a modification of the Minutes of the January 25, 2016 Regular Board Meeting, under Item #5, as follows:

“Director Hanson moved to receive and file the Fiscal Year 2014-15 Draft Financial Audit, with the ~~sole modification of correction~~ offered by Ms. McGrew: placing brackets around ~~and, thus, negating the value on~~ the figures called “Other amounts reported as deferred outflows” in Note 12, Item #5, page 39, thus making those numbers negative, rather than positive.”

Director Hanson moved to approve the consent agenda, as modified with the aforementioned revision. Seconded by Director Holcombe, the motion passed by unanimous roll call vote:

Ayes: White, Walsh, Holcombe, Hanson, Morgan

Nays: None

Absent/Abstain: None

4. Verbal Reports from Board Committees

- *Operations Committee Meeting – February 17, 2016:* Director Walsh summarized the meeting and its sole item: relocation of the pumping barge of the Emergency Pumping Facility Project. He informed the Board that the Operations Committee requested several items from staff, one of which was assurance that in its new location, the barge would not pump any water not belonging to the South Coast Member Agencies. Following further discussion, Director Walsh reported that the item would be considered by the Cachuma Member Unit General Managers, and then once more by the Operations Committee, before coming to the Board for approval.

5. Interim General Manager’s Report

- *Cachuma Member Unit Managers Meeting*
- *Safe Yield Workshop*
- *Operations Division*
- *Fisheries Division*

Ms. Janet Gingras, Interim General Manager, highlighted topics within her report as incorporated in the board packet, providing updates on each of her current and ongoing deliverables, topics of interest, and relevant information. She invited any questions from the Board.

6. Operations Division Report

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

Mr. Dave Stewart, Operations Division Manager, offered to field any questions on his report, as included in the board packet; there were no questions from the Board.

7. Fisheries Division Report

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

Dr. Tim Robinson, Fisheries Division Manager, noted features as presented in his report in the board packet, providing detailed updates on the season’s trapping and surveying efforts.

8. Progress Report on Lake Cachuma Oak Tree Program

- *Maintenance and Monitoring*

Dr. Robinson gave a concise review of the status of the project, notifying the Board that with the help of the California Conservation Corps (CCC), Year 8 planting had been completed with over 800 new trees in the ground.

9. Monthly Cachuma Project Reports

The reports were included in the board packet for information. There were no questions from the Board.

10. Directors’ Requests for Agenda Items for Future Meeting

There were no requests for agenda items for future meetings.

11. Meeting Schedule

- The next Special Board meeting will be held March 7, 2016 at 1:00 p.m.
- The next Regular Board meeting will be held March 28, 2016 at 2:00 p.m.
- The Agendas and Board Packets are available on the COMB website at www.cachuma-board.org

12. COMB Adjournment

There being no further business, the meeting was adjourned at 3:37 p.m.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

**MINUTES OF A SPECIAL MEETING
of the
CACHUMA OPERATION & MAINTENANCE BOARD**

**held at
3301 Laurel Canyon Road, Santa Barbara, CA
Friday, February 26, 2016**

1. Call to Order, Roll Call

The meeting was called to order at 12:23 p.m. by President Doug Morgan, who chaired the meeting. Those in attendance were:

Directors present:

Doug Morgan	Montecito Water District
Harwood "Bendy" White	City of Santa Barbara
Kevin Walsh	SYR Water Conservation Dist, ID No. 1
Polly Holcombe	Carpinteria Valley Water District
Lauren Hanson	Goleta Water District

Others Present:

Gary Phillips	Adelle Capponi
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2. Public Comment

There was no public comment.

3. [Closed Session]: Public Employee Appointment

The Board went into closed session at 12:24 p.m.

- a. [Government Code Section 54957]
PUBLIC EMPLOYMENT:
Title: General Manager

4. Reconvene Into Open Session

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

The Board came out of closed session at 3:57 p.m.

- a. [Government Code Section 54957]
PUBLIC EMPLOYMENT:
Title: General Manager

There was no reportable action.

5. Meeting Schedule

- March 7, 2016 at 1:00 p.m., COMB Offices
- March 28, 2016 at 2:00 p.m., COMB Offices
- Board Packages are available on the COMB Website at www.cachuma-board.org.

6. COMB Adjournment

There being no further business, the meeting was adjourned at 4:00 p.m.

Respectfully submitted,

Janet Gingras, Secretary to the Board

APPROVED:

	<i>Approved</i>
√	<i>Unapproved</i>

Doug Morgan, President of the Board

COMB
Statement of Net Assets
As of February 29, 2016

ASSETS**Current Assets****Checking/Savings****TRUST FUNDS**

1210 · WARREN ACT TRUST FUND 347,236.52

1220 · RENEWAL FUND 10,215.61

Total TRUST FUNDS		357,452.13
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1050 · GENERAL FUND 2,149,673.34

1100 · REVOLVING FUND 2,664.11

Total Checking/Savings		2,509,789.58
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Other Current Assets

1010 · PETTY CASH 500.00

1200 · LAIF 279,618.16

1303 · Bradbury SOD Act Assmnts Rec 83,283.00

1304 · Lauro Dam SOD Assesmnt Rec 14,447.00

1309 · Grants Receivable 705,205.00

1315 · Assessments Rec 684,160.26

1400 · PREPAID INSURANCE 24,900.72

Total Other Current Assets		1,792,114.14
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Total Current Assets		4,301,903.72
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Fixed Assets

1500 · VEHICLES 409,581.12

1505 · OFFICE FURN & EQUIPMENT 432,634.46

1510 · MOBILE OFFICES 97,803.34

1515 · FIELD EQUIPMENT 542,025.24

1525 · PAVING 38,351.00

1550 · ACCUMULATED DEPRECIATION -1,320,829.64

Total Fixed Assets		199,565.52
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Other Assets

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

1920 · LT Lauro SOD Act Assess Rec 940,342.00

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

Total Other Assets		6,327,663.07
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TOTAL ASSETS		10,829,132.31
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COMB
Statement of Net Assets
As of February 29, 2016

LIABILITIES & NET ASSETS**Liabilities****Current Liabilities****Accounts Payable**

2200 · ACCOUNTS PAYABLE

768,743.04

Total Accounts Payable768,743.04**Other Current Liabilities**

Payroll-DepPrm Admin

50.00

2505 · ACCRUED WAGES

31,189.78

2550 · VACATION/SICK

142,912.32

2560 · CACHUMA ENTITLEMENT

-557,533.15

2561 · BRADBURY DAM SOD ACT

83,283.66

2563 · LAURO DAM SOD ACT

14,447.00

2565 · ACCRUED INTEREST SOD ACT

87,008.00

2590 · DEFERRED REVENUE

627,526.58

Total Other Current Liabilities428,884.19**Total Current Liabilities**

1,197,627.23

Long Term Liabilities

2602 · LT SOD Act Liability-Bradbury

5,250,759.07

2603 · LT SOD Act Liability - Lauro

940,342.00

2604 · OPEB LT Liability

746,491.00

2605 · Loan Payable - EPFP

2,601,317.00

2610 · Net Pension Liability (GASB 68)

1,120,314.00

2611 · Deferred Inflows of Resources (GASB 68)

348,168.00

Total Long Term Liabilities11,007,391.07**Total Liabilities**

12,205,018.30

NET POSITION

3000 · Opening Bal Equity

-1,357,356.05

3901 · Retained Net Assets

-1,591,460.37

Net Income

1,572,930.43

Total Net Assets-1,375,885.99**TOTAL LIABILITIES & NET POSITION**10,829,132.31

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Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries				Operations				TOTAL			
	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget
Income												
3000 REVENUE												
3001 - O&M Budget (Qtrly Assessments)	621,221.00	1,099,077.00	-477,856.00	56.52%	3,474,259.00	5,651,050.00	-2,176,791.00	61.48%	4,095,480.00	6,750,127.00	-2,654,647.00	60.67%
3006 - Warren Act	229,925.55	571,728.00	-341,802.45	40.22%	0.00				229,925.55	571,728.00	-341,802.45	40.22%
3007 - Renewal Fund	0.00				0.00				0.00	0.00	0.00	0.0%
3010 - Interest Income	0.00				1,783.13				1,783.13	0.00	1,783.13	100.0%
3020 - Misc Income	26.25				1,956.03				1,982.28	0.00	1,982.28	100.0%
3032 - Grant-QC Crossing #3	705,205.00	705,205.00	0.00	100.0%	0.00				705,205.00	705,205.00	0.00	100.0%
3033 - Grant-QC Crossing # 0 (a&b)	0.00	671,635.00	-671,635.00	0.0%	0.00				0.00	671,635.00	-671,635.00	0.0%
3035 - Cachuma Project Betterment Fund	75,000.00	90,000.00	-15,000.00	83.33%	0.00				75,000.00	90,000.00	-15,000.00	83.33%
Total 3000 REVENUE	1,631,377.80	3,137,645.00	-1,506,267.20	51.99%	3,477,998.16	5,651,050.00	-2,173,051.84	61.55%	5,109,375.96	8,788,695.00	-3,679,319.04	58.14%
Total Income	1,631,377.80	3,137,645.00	-1,506,267.20	51.99%	3,477,998.16	5,651,050.00	-2,173,051.84	61.55%	5,109,375.96	8,788,695.00	-3,679,319.04	58.14%
Gross Profit	1,631,377.80	3,137,645.00	-1,506,267.20	51.99%	3,477,998.16	5,651,050.00	-2,173,051.84	61.55%	5,109,375.96	8,788,695.00	-3,679,319.04	58.14%
Expense												
PAYROLL												
Gross	0.00				0.00				0.00	0.00	0.00	0.0%
Gross-FD	0.00				0.00				0.00	0.00	0.00	0.0%
Total PAYROLL	0.00				0.00				0.00	0.00	0.00	0.0%
3100 - LABOR - OPERATIONS	0.00				419,052.57	815,197.00	-396,144.43	51.41%	419,052.57	815,197.00	-396,144.43	51.41%
3200 VEH & EQUIPMENT												
3201 - Vehicle/Equip Mtce	0.00				14,134.63	30,000.00	-15,865.37	47.12%	14,134.63	30,000.00	-15,865.37	47.12%
3202 - Fixed Capital	0.00				7,047.03	15,000.00	-7,952.97	46.98%	7,047.03	15,000.00	-7,952.97	46.98%
3203 - Equipment Rental	0.00				1,288.64	5,000.00	-3,711.36	25.77%	1,288.64	5,000.00	-3,711.36	25.77%
3204 - Miscellaneous	0.00				3,523.63	5,000.00	-1,476.37	70.47%	3,523.63	5,000.00	-1,476.37	70.47%
Total 3200 VEH & EQUIPMENT	0.00				25,993.93	55,000.00	-29,006.07	47.26%	25,993.93	55,000.00	-29,006.07	47.26%
3300 - CONTRACT LABOR												
3301 - Conduit, Meter, Valve & Misc	0.00				4,611.50	20,000.00	-15,388.50	23.06%	4,611.50	20,000.00	-15,388.50	23.06%
3302 - Buildings & Roads	0.00				800.00	20,000.00	-19,200.00	4.0%	800.00	20,000.00	-19,200.00	4.0%
3303 - Reservoirs	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
3304 - Engineering, Misc Services	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
Total 3300 - CONTRACT LABOR	0.00				5,411.50	95,000.00	-89,588.50	5.7%	5,411.50	95,000.00	-89,588.50	5.7%
3400 - MATERIALS & SUPPLIES												
3401 - Conduit, Meter, Valve & Misc	0.00				86.99	65,000.00	-64,913.01	0.13%	86.99	65,000.00	-64,913.01	0.13%
3402 - Buildings & Roads	0.00				5,447.81	15,000.00	-9,552.19	36.32%	5,447.81	15,000.00	-9,552.19	36.32%
3403 - Reservoirs	0.00				1,634.35	10,000.00	-8,365.65	16.34%	1,634.35	10,000.00	-8,365.65	16.34%
Total 3400 - MATERIALS & SUPPLIES	0.00				7,169.15	90,000.00	-82,830.85	7.97%	7,169.15	90,000.00	-82,830.85	7.97%
3500 - OTHER EXPENSES												
3501 - Utilities	0.00				4,640.94	7,000.00	-2,359.06	66.3%	4,640.94	7,000.00	-2,359.06	66.3%
3502 - Uniforms	0.00				1,322.63	5,000.00	-3,677.37	26.45%	1,322.63	5,000.00	-3,677.37	26.45%
3503 - Communications	0.00				12,066.24	18,000.00	-5,933.76	67.04%	12,066.24	18,000.00	-5,933.76	67.04%
3504 - USA & Other Services	0.00				1,059.00	4,000.00	-2,941.00	26.48%	1,059.00	4,000.00	-2,941.00	26.48%

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Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries				Operations				TOTAL			
	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget
3505 · Miscellaneous	0.00				5,980.34	8,000.00	-2,019.66	74.75%	5,980.34	8,000.00	-2,019.66	74.75%
3506 · Training	0.00				300.00	3,000.00	-2,700.00	10.0%	300.00	3,000.00	-2,700.00	10.0%
Total 3500 · OTHER EXPENSES	0.00				25,369.15	45,000.00	-19,630.85	56.38%	25,369.15	45,000.00	-19,630.85	56.38%
4000 · Reconciliation Discrepancies	0.00				0.23				0.23	0.00	0.23	100.0%
4100 · LABOR - FISHERIES	385,065.91	549,994.00	-164,928.09	70.01%	0.00				385,065.91	549,994.00	-164,928.09	70.01%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	9,540.52	13,000.00	-3,459.48	73.39%	0.00				9,540.52	13,000.00	-3,459.48	73.39%
4280 · Fixed Capital	692.19	15,000.00	-14,307.81	4.62%	0.00				692.19	15,000.00	-14,307.81	4.62%
4290 · Miscellaneous	1,188.70	2,500.00	-1,311.30	47.55%	0.00				1,188.70	2,500.00	-1,311.30	47.55%
Total 4200 · VEHICLES & EQUIP - FISHERIES	11,421.41	30,500.00	-19,078.59	37.45%	0.00				11,421.41	30,500.00	-19,078.59	37.45%
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
4222 · Fish Projects Maintenance	8,271.82	40,000.00	-31,728.18	20.68%	0.00				8,271.82	40,000.00	-31,728.18	20.68%
Total 4220 · CONTRACT LABOR - FISHERIES	8,271.82	43,000.00	-34,728.18	19.24%	0.00				8,271.82	43,000.00	-34,728.18	19.24%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	1,621.03	7,000.00	-5,378.97	23.16%	0.00				1,621.03	7,000.00	-5,378.97	23.16%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	1,621.03	7,000.00	-5,378.97	23.16%	0.00				1,621.03	7,000.00	-5,378.97	23.16%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	580.28	2,500.00	-1,919.72	23.21%	0.00				580.28	2,500.00	-1,919.72	23.21%
Total 4500 · OTHER EXPENSES - FISHERIES	580.28	2,500.00	-1,919.72	23.21%	0.00				580.28	2,500.00	-1,919.72	23.21%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees												
5001 · Director Mileage	0.00				837.66	2,000.00	-1,162.34	41.88%	837.66	2,000.00	-1,162.34	41.88%
5000 · Director Fees - Other	0.00				8,153.60	11,000.00	-2,846.40	74.12%	8,153.60	11,000.00	-2,846.40	74.12%
Total 5000 · Director Fees	0.00				8,991.26	13,000.00	-4,008.74	69.16%	8,991.26	13,000.00	-4,008.74	69.16%
5100 · Legal	0.00				17,819.83	100,000.00	-82,180.17	17.82%	17,819.83	100,000.00	-82,180.17	17.82%
5101-1 · Audit	0.00				15,784.05	20,000.00	-4,215.95	78.92%	15,784.05	20,000.00	-4,215.95	78.92%
5150 · Unemployment Tax	0.00				287.83	5,000.00	-4,712.17	5.76%	287.83	5,000.00	-4,712.17	5.76%
5200 · Liability Insurance	0.00				42,869.45	42,705.00	164.45	100.39%	42,869.45	42,705.00	164.45	100.39%
5201 · Health & Workers Comp	0.00				117,223.69	180,093.00	-62,869.31	65.09%	117,223.69	180,093.00	-62,869.31	65.09%
5250 · PERS	0.00				27,409.54	58,420.00	-31,010.46	46.92%	27,409.54	58,420.00	-31,010.46	46.92%
5260 · Company FICA Admin	0.00				8,557.90	20,754.00	-12,196.10	41.24%	8,557.90	20,754.00	-12,196.10	41.24%
5265 · Company MCARE Admin	0.00				2,413.68	4,854.00	-2,440.32	49.73%	2,413.68	4,854.00	-2,440.32	49.73%
5300 · Manager Salary	0.00				22,802.10	100,750.00	-77,947.90	22.63%	22,802.10	100,750.00	-77,947.90	22.63%
5301 · Administrative Manager	0.00				67,886.06	87,750.00	-19,863.94	77.36%	67,886.06	87,750.00	-19,863.94	77.36%
5303 · Admin Assistant I	0.00				27,700.32	42,250.00	-14,549.68	65.56%	27,700.32	42,250.00	-14,549.68	65.56%
5306 · Administrative Assistant III	0.00				35,143.57	45,500.00	-10,356.43	77.24%	35,143.57	45,500.00	-10,356.43	77.24%
5310 · Postage/Office Exp	0.00				3,427.71	8,000.00	-4,572.29	42.85%	3,427.71	8,000.00	-4,572.29	42.85%
5311 · Office Equip/Leases	0.00				5,174.65	8,000.00	-2,825.35	64.68%	5,174.65	8,000.00	-2,825.35	64.68%
5312 · Misc Admin Expenses	0.00				7,470.06	10,790.00	-3,319.94	69.23%	7,470.06	10,790.00	-3,319.94	69.23%
5313 · Communications	0.00				4,797.23	8,500.00	-3,702.77	56.44%	4,797.23	8,500.00	-3,702.77	56.44%
5314 · Utilities	0.00				6,770.13	9,737.00	-2,966.87	69.53%	6,770.13	9,737.00	-2,966.87	69.53%

comb2
Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries				Operations				TOTAL			
	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget
5315 · Membership Dues	0.00				7,908.00	8,000.00	-92.00	98.85%	7,908.00	8,000.00	-92.00	98.85%
5316 · Admin Fixed Assets	0.00				0.00	4,000.00	-4,000.00	0.0%	0.00	4,000.00	-4,000.00	0.0%
5318 · Computer Consultant	0.00				9,275.29	15,000.00	-5,724.71	61.84%	9,275.29	15,000.00	-5,724.71	61.84%
5321 · Administrative Consultant	0.00				14,402.99	16,250.00	-1,847.01	88.63%	14,402.99	16,250.00	-1,847.01	88.63%
5325 · Emp Training/Subscriptions	0.00				83.67	2,000.00	-1,916.33	4.18%	83.67	2,000.00	-1,916.33	4.18%
5330 · Admin Travel/Conferences	0.00				203.96	2,000.00	-1,796.04	10.2%	203.96	2,000.00	-1,796.04	10.2%
5331 · Public Information	0.00				331.67	1,000.00	-668.33	33.17%	331.67	1,000.00	-668.33	33.17%
5352 · Program Analyst	0.00				0.00	42,250.00	-42,250.00	0.0%	0.00	42,250.00	-42,250.00	0.0%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				454,734.64	856,603.00	-401,868.36	53.09%	454,734.64	856,603.00	-401,868.36	53.09%
5400 · GENERAL & ADMIN - FISHERIES												
5401 · Health & Workers Comp.	18,614.27	44,184.00	-25,569.73	42.13%	0.00				18,614.27	44,184.00	-25,569.73	42.13%
5402 · CalPERS	14,759.04	31,457.00	-16,697.96	46.92%	0.00				14,759.04	31,457.00	-16,697.96	46.92%
5403 · Company Fica	4,105.67	11,175.00	-7,069.33	36.74%	0.00				4,105.67	11,175.00	-7,069.33	36.74%
5405 · GM Salary	12,278.04	54,250.00	-41,971.96	22.63%	0.00				12,278.04	54,250.00	-41,971.96	22.63%
5406 · Company MCare	1,182.08	2,614.00	-1,431.92	45.22%	0.00				1,182.08	2,614.00	-1,431.92	45.22%
5407 · Legal - FD	47,810.20	25,000.00	22,810.20	191.24%	0.00				47,810.20	25,000.00	22,810.20	191.24%
5408 · Administrative Manager	36,554.09	47,250.00	-10,695.91	77.36%	0.00				36,554.09	47,250.00	-10,695.91	77.36%
5409 · Administrative Assistant III	18,923.44	24,500.00	-5,576.56	77.24%	0.00				18,923.44	24,500.00	-5,576.56	77.24%
5410 · Postage / Office Supplies	1,856.83	3,000.00	-1,143.17	61.89%	0.00				1,856.83	3,000.00	-1,143.17	61.89%
5411 · Office Equipment / Leases	2,786.26	5,218.00	-2,431.74	53.4%	0.00				2,786.26	5,218.00	-2,431.74	53.4%
5412 · Misc. Admin Expense	3,052.10	5,810.00	-2,757.90	52.53%	0.00				3,052.10	5,810.00	-2,757.90	52.53%
5413 · Communications	2,974.60	4,305.00	-1,330.40	69.1%	0.00				2,974.60	4,305.00	-1,330.40	69.1%
5414 · Utilities	3,645.25	5,243.00	-1,597.75	69.53%	0.00				3,645.25	5,243.00	-1,597.75	69.53%
5415 · Membership Dues	4,122.00	4,000.00	122.00	103.05%	0.00				4,122.00	4,000.00	122.00	103.05%
5416 · Admin Fixed Assets	0.00	4,000.00	-4,000.00	0.0%	0.00				0.00	4,000.00	-4,000.00	0.0%
5418 · Computer Consultant	5,058.03	5,000.00	58.03	101.16%	0.00				5,058.03	5,000.00	58.03	101.16%
5421 · Administrative Consultant	7,755.45	8,750.00	-994.55	88.63%	0.00				7,755.45	8,750.00	-994.55	88.63%
5425 · Employee Education/Subscription	45.06	2,500.00	-2,454.94	1.8%	0.00				45.06	2,500.00	-2,454.94	1.8%
5426 · Director Fees	4,390.40	6,000.00	-1,609.60	73.17%	0.00				4,390.40	6,000.00	-1,609.60	73.17%
5427 · Director Mileage	451.08	1,000.00	-548.92	45.11%	0.00				451.08	1,000.00	-548.92	45.11%
5430 · Travel	196.49	2,500.00	-2,303.51	7.86%	0.00				196.49	2,500.00	-2,303.51	7.86%
5431 · Public Information	1,178.60	1,500.00	-321.40	78.57%	0.00				1,178.60	1,500.00	-321.40	78.57%
5441 · Audt	8,460.95	6,300.00	2,160.95	134.3%	0.00				8,460.95	6,300.00	2,160.95	134.3%
5443 · Liab & Property Ins	23,083.55	21,595.00	1,488.55	106.89%	0.00				23,083.55	21,595.00	1,488.55	106.89%
5451 · Admin Assistant I	14,915.57	22,750.00	-7,834.43	65.56%	0.00				14,915.57	22,750.00	-7,834.43	65.56%
5452 · Program Analyst	0.00	22,750.00	-22,750.00	0.0%	0.00				0.00	22,750.00	-22,750.00	0.0%
Total 5400 · GENERAL & ADMIN - FISHERIES	238,199.05	372,651.00	-134,451.95	63.92%	0.00				238,199.05	372,651.00	-134,451.95	63.92%
5510 · Integrated Reg. Water Mgt Plan	0.00				2,588.00	5,000.00	-2,412.00	51.76%	2,588.00	5,000.00	-2,412.00	51.76%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				5,188.07	25,000.00	-19,811.93	20.75%	5,188.07	25,000.00	-19,811.93	20.75%
6090 · COMB Office Building	0.00				3,733.96	290,000.00	-286,266.04	1.29%	3,733.96	290,000.00	-286,266.04	1.29%
6096 · SCC Structure Rehabilitation	0.00				386.99	240,000.00	-239,613.01	0.16%	386.99	240,000.00	-239,613.01	0.16%
6097 · GIS and Mapping	0.00				7,057.00	10,000.00	-2,943.00	70.57%	7,057.00	10,000.00	-2,943.00	70.57%
6105 · ROW Management Program	0.00				14,760.25	20,000.00	-5,239.75	73.8%	14,760.25	20,000.00	-5,239.75	73.8%
6109 · NP Jet Flow Control Valve	0.00				874.80	0.00	874.80	100.0%	874.80	0.00	874.80	100.0%
6111 · Mission Crk Pipe Temp Repair	0.00				55,485.41	60,000.00	-4,514.59	92.48%	55,485.41	60,000.00	-4,514.59	92.48%

comb2
Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries				Operations				TOTAL			
	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget	Jul '15 - Feb 16	Budget	\$ Over Budget	% of Budget
6118 - Repair Lateral 3 Structure	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6120 - Emergency Pumping Fac Project	0.00				878,045.20	2,709,250.00	-1,831,204.80	32.41%	878,045.20	2,709,250.00	-1,831,204.80	32.41%
6122 - Rehab San Antonio Crk Blow-off	0.00				0.00	10,000.00	-10,000.00	0.0%	0.00	10,000.00	-10,000.00	0.0%
6123 - Sheffield Tunnel Insp/Eval SCC	0.00				0.00	100,000.00	-100,000.00	0.0%	0.00	100,000.00	-100,000.00	0.0%
6124 - SP Slope Stabilization	0.00				8,941.00	10,000.00	-1,059.00	89.41%	8,941.00	10,000.00	-1,059.00	89.41%
6127 - Encroachment-Tree/Veg Overgrow	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
6128 - Lauro Tunnel Pipe Support Eval	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
6129 - Rehab SCC LR Lateral Structures	0.00				0.00	50,000.00	-50,000.00	0.0%	0.00	50,000.00	-50,000.00	0.0%
6130 - NP Slope Stabilization	0.00				0.00	90,000.00	-90,000.00	0.0%	0.00	90,000.00	-90,000.00	0.0%
Total 6000 - SPECIAL PROJECTS	0.00				974,472.68	3,689,250.00	-2,714,777.32	26.41%	974,472.68	3,689,250.00	-2,714,777.32	26.41%
6200 - FISHERIES ACTIVITIES												
6201 - FMP Implementation	8,694.06	100,000.00	-91,305.94	8.69%	0.00				8,694.06	100,000.00	-91,305.94	8.69%
6202 - GIS and Mapping	4,052.40	10,000.00	-5,947.60	40.52%	0.00				4,052.40	10,000.00	-5,947.60	40.52%
6203 - Grants Technical Support	2,070.00	10,000.00	-7,930.00	20.7%	0.00				2,070.00	10,000.00	-7,930.00	20.7%
6204 - SYR Hydrology Technical Support	1,582.57	10,000.00	-8,417.43	15.83%	0.00				1,582.57	10,000.00	-8,417.43	15.83%
6205 - USGS Stream Gauge Program	57,025.00	77,000.00	-19,975.00	74.06%	0.00				57,025.00	77,000.00	-19,975.00	74.06%
6206 - Tri County Fish Team Funding	0.00	5,000.00	-5,000.00	0.0%	0.00				0.00	5,000.00	-5,000.00	0.0%
6207 - Oak Tree Restoration Program	39,973.08	100,000.00	-60,026.92	39.97%	0.00				39,973.08	100,000.00	-60,026.92	39.97%
6209 - SYR Riverware Model Peer Review	0.00	0.00	0.00	0.0%	0.00				0.00	0.00	0.00	0.0%
6211 - SYR RiverWare Model Use	0.00	0.00	0.00	0.0%	0.00				0.00	0.00	0.00	0.0%
Total 6200 - FISHERIES ACTIVITIES	113,397.11	312,000.00	-198,602.89	36.35%	0.00				113,397.11	312,000.00	-198,602.89	36.35%
6300 - HABITAT ENHANCEMENT												
6303 - Tributary Projects Support	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
6312 - Quiota Creek Crossing 0 (a&b)	15,697.61	810,000.00	-794,302.39	1.94%	0.00				15,697.61	810,000.00	-794,302.39	1.94%
6313 - Quiota Creek Crossing 3	832,980.21	930,000.00	-97,019.79	89.57%	0.00				832,980.21	930,000.00	-97,019.79	89.57%
6314 - Quiota Creek Crossing 4	7,219.23	30,000.00	-22,780.77	24.06%	0.00				7,219.23	30,000.00	-22,780.77	24.06%
6315 - Quiota Creek Crossing 8	7,200.02	30,000.00	-22,799.98	24.0%	0.00				7,200.02	30,000.00	-22,799.98	24.0%
Total 6300 - HABITAT ENHANCEMENT	863,097.07	1,820,000.00	-956,902.93	47.42%	0.00				863,097.07	1,820,000.00	-956,902.93	47.42%
Total Expense	1,621,653.68	3,137,645.00	-1,515,991.32	51.68%	1,914,791.85	5,651,050.00	-3,736,258.15	33.88%	3,536,445.53	8,788,695.00	-5,252,249.47	40.24%
Net Income	9,724.12	0.00	9,724.12	100.0%	1,563,206.31	0.00	1,563,206.31	100.0%	1,572,930.43	0.00	1,572,930.43	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
 March 03, 2016

CACHUMA OPERATION AND MAINTENANCE BOARD

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

PMIA Average Monthly Yields

Tran Type Definitions

February 2016 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
2/4/2016	2/3/2016	RW	1492876	JANET GINGRAS	-130,000.00

Account Summary

Total Deposit:	0.00	Beginning Balance:	409,618.16
Total Withdrawal:	-130,000.00	Ending Balance:	279,618.16

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 February, 2016, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all LAIF investments of this agency for the period indicated.


 Secretary

AMERICAN RIVIERA BANK

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

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CACHUMA O & M BOARD PAGE 1

CACHUMA OPERATION AND MAINTENANCE BOARD
3301 LAUREL CANYON RD
SANTA BARBARA CA 93105


ACCOUNT ANALYSIS CHECKING		ACCOUNT NO	705011530
		STATEMENT DATE	02/29/2016
		LAST STATEMENT DATE	01/29/2016
0	STATEMENT PERIOD		
PREVIOUS BALANCE	10,215.61	# OF DAYS-STMT PERIOD	31
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	10,215.61
ENDING BALANCE	10,215.61		
TOTAL SRV CHG TODAY	0.00	YTD INTEREST	0.00

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of February, 2016, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.


Secretary

AMERICAN RIVIERA BANK

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

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MAR 07 2016

CACHUMA O & M BOARD PAGE 1

CACHUMA OPERATION AND MAINTENANCE BOARD
3301 LAUREL CANYON RD
SANTA BARBARA CA 93105

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO 705011543
STATEMENT DATE 02/29/2016
LAST STATEMENT DATE 01/29/2016

0

STATEMENT PERIOD

PREVIOUS BALANCE	347,236.52	# OF DAYS-STMT PERIOD	31
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	347,236.52
ENDING BALANCE	347,236.52		
TOTAL SRV CHG TODAY	0.00	YTD INTEREST	0.00

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of February, 2016, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank investments of this agency for the period indicated.


Secretary

Date	Num	Name	Memo	Amount
1050 - GENERAL FUND				
02/11/2016	24297	All Around Landscape Supply	Materials-Carp dam face drain repair (Ops Div)	-572.69
02/11/2016	24298	Association of Ca Water Agencies/JPIA	Mar Health Benefits coverage	-24,757.67
02/11/2016	24299	AT&T	Jan charges	-348.53
02/11/2016	24300	Bartlett, Pringle & Wolf, LLP	Audit services-FY 14/15	-1,786.00
02/11/2016	24301	Bedrock Building Supplies	Sand-road mtce (Ops Div)	-36.72
02/11/2016	24302	Bob Murray & Associates	GM Recruitment	-7,613.43
02/11/2016	24303	Channel City Lumber	Tree stakes-Oak Tree program (Fish Div)	-573.16
02/11/2016	24304	City of Santa-Barbara	Trash/Recycle-Jan 2016	-217.82
02/11/2016	24305	County of Santa--Barbara	Dump runs (1/13, 1/19 invoices)	-75.95
02/11/2016	24306	County of SB-P.W. Water Agency	Prop 84 MOU Cost share	-280.00
02/11/2016	24307	Cox Communications	Business internet-Feb	-195.00
02/11/2016	24308	Crop Production Services, Inc	Soil-Oak Tree program (Fish Div)	-31.40
02/11/2016	24309	Cushman Contracting Corp.	Pay Req#21; SP K-rail barrier project	-106,941.00
02/11/2016	24310	ECHO Communications	Monthly answering service	-62.00
02/11/2016	24311	Employment Development Dept.	Unemployment insurance	-287.83
02/11/2016	24312	Environmental Systems Research Inst.	ArcInfo/ArcGIS/ArcView 1/11/16-1/10/17	-5,844.00
02/11/2016	24313	Farm Supply Company	Tree stakes-Oak Tree program (Fish Div)	-553.64
02/11/2016	24314	Fence Factory	Cattle Exclusionary fence repair (Fish Div)	-468.52
02/11/2016	24315	GE Capital	Copier lease agmts	-489.24
02/11/2016	24316	Harrison Hardware	Fencing/poly grain scoop-Oak Tree program; shims/fasteners-materials/supp (Fish Div)	-903.30
02/11/2016	24317	Harwood White	Jan mtg fees	-264.95
02/11/2016	24318	HDR Engineering, Inc.	BO/FMP/QC Xng 0, 4, 8 Design-Jan	-4,590.68
02/11/2016	24319	Home Depot Credit Services	Shop Vac (Ops); Sand bags-trapping (Fish)	-193.33
02/11/2016	24320	Instrument & Valve Services Company	Venturi meter calibrations (4) (Ops Div)	-1,808.00
02/11/2016	24321	J&C Services	Office cleaning services-Jan	-600.00
02/11/2016	24322	Kevin D. Walsh	Jan mtg fees	-317.25
02/11/2016	24323	Lauren W. Hanson	Jan mtg fees	-266.80
02/11/2016	24324	Manzanita Nursery	Oak trees-Oak tree program (Fish Div)	-1,155.60
02/11/2016	24325	MarBorg Industries	Portable toilets-outlying stations	-656.74
02/11/2016	24326	Milpas Rental	Post hole digger-cattle fencing repair (Fish Div)	-91.04
02/11/2016	24327	Musick, Peeler & Garrett LLP	General Counsel-Nov	-1,012.00
02/11/2016	24328	Northern Safety Co. Inc.	Respirator wipes/masks/gloves (Ops Div)	-261.74
02/11/2016	24329	O'Reilly Automotive, Inc.	Batteries for welder (Ops Div)	-126.08
02/11/2016	24330	Paychex, Inc.	12/31, 1/15, 1/29 payrolls/taxes/qtr/W-2/deliveries	-751.95
02/11/2016	24331	Polly Holcombe	Jan mtg fees	-414.55
02/11/2016	24332	Prudential Overall Supply	Mats/scrapers-Jan	-100.56
02/11/2016	24333	Quinn Company	Replacement backhoe keys (Ops Div)	-22.90
02/11/2016	24334	Rauch Communication Consultants, Inc	Website mtce	-180.63
02/11/2016	24335	Santa Barbara Police Department	Renewal-Security Alarm	-40.00
02/11/2016	24336	SB Home Improvement Center	Brooms/sawzall/rebar/lumber cuts/misc (Ops)	-113.07
02/11/2016	24337	SHRM	Membership (HR resources)	-190.00
02/11/2016	24338	Southern California Edison	Main office/outlying stations	-1,361.44
02/11/2016	24339	Superior Brake & Alignment	Brake service-3500 HD Chev (Ops Div)	-355.71
02/11/2016	24340	Tri-Co Reprographics	QC Xng 3 final drawings/scan/pdf (Fish Div)	-25.68
02/11/2016	24341	Turenchalk Network Services, Inc.	IT services-Jan	-1,263.50
02/11/2016	24342	Underground Service Alert of So. Calif.	50 Ticket charges	-75.00
02/11/2016	24343	United States Geological Survey	Agmt#16WSCA44600 1st Qtr (Stream Gauge)	-19,525.00
02/11/2016	24344	Valley Compost & Topsoil, Inc.	Compost-Oak Tree program (Fish Div)	-129.60
02/11/2016	24345	Verizon California	Main office/outlying stations/SCADA	-1,088.03
02/11/2016	24346	W. Douglas Morgan	Jan mtg fees	-405.60
02/11/2016	24347	Wright Express Fleet Services	Fleet fuel	-1,849.62
02/11/2016	24348	HDR Engineering, Inc.	EPFP Engineering services-Dec-Jan	-3,044.24

comb2
Paid Claims
As of February 29, 2016

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
02/11/2016	24349	Manzanita Nursery	Trees-Oak Tree program (Fish Div)	-743.68
02/17/2016	24350	Bartlett, Pringle & Wolf, LLP	Audit services-FY 14/15	-8,298.00
02/17/2016	24351	Calif Dept of Fish & Wildlife	Permit Amendment-Emerg Pumping System	-613.75
02/17/2016	24352	Coastal Copy, LP	Copiers mtce agmt	-325.16
02/17/2016	24353	Peter Lapidus Construction, Inc.	Quiota Creek Xng 3 C/O #4-Additional guard rails	-2,850.00
02/17/2016	24354	Southern California Edison	Outlying stations	-24.64
02/17/2016	24355	Verizon Wireless	Modems	-152.04
02/22/2016	24356	Bob Murray & Associates	GM Recruitment	-3,248.49
02/22/2016	24357	GE Capital	Copiers lease agmt	-489.24
02/22/2016	24358	MarBorg Industries	Portable toilets-outlying stations	-328.37
02/22/2016	24359	PG&E	Tecolote Tunnel/North Portal electricity	-351.70
02/22/2016	24360	Verizon Wireless	Cellular/Modem's/USB's	-655.04
Total 1050 · GENERAL FUND				<u>-212,399.30</u>
TOTAL				<u><u>-212,399.30</u></u>

comb2
Pending Claims for Payment

As of February 29, 2016

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Memo</u>	<u>Due Date</u>	<u>Amount</u>
Musick, Peeler & Garrett LLP					
Bill	02/16/2016	291678	General Counsel-Jan	03/17/2016	3,562.00
Total Musick, Peeler & Garrett LLP					<u>3,562.00</u>
TOTAL			TOTAL CLAIMS PENDING PAYMENT FEB		\$ <u>3,562.00</u>

CACHUMA OPERATION & MAINTENANCE BOARD

Operations Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Tuesday, March 22, 2016
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. Emergency Pumping Facilities Project (EPFP) Status (*for information*)
4. North Portal Bypass Meter Replacement (*for information*)
5. AECOM Proposal – Development of Protocols for System Isolation (*for information and possible recommendation*)
6. Engineering Design Proposal (*for information and possible recommendation*)
 - Air Vacuum Air Release Valve (AVAR) Structures
 - Blow-off Structures
7. Summers Engineering, Inc. Proposal – Watershed Sanitary Survey (*for information and possible recommendation*)
8. Lauro Stop Valve Replacement Project (*for information*)
9. Adjournment

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	March 28, 2016
Submitted by:	Janet Gingras

SUBJECT: Summers Engineering Inc. - Watershed Sanitary Survey Proposal

SUMMARY:

The California State Water Resources Control Board Division of Drinking Water standards mandate that all surface water systems conduct a sanitary survey of their watersheds at least every five years, pursuant to Surface Water Treatment Rule Section 64665. The watershed sanitary survey area includes the Santa Ynez River above Bradbury Dam, the West Fork of Glen Annie Canyon above Glen Annie Dam, Lauro Canyon above Lauro Dam, and the watershed above the City of Lompoc, San Miguelito - Frick Springs.

In 1995, the Watershed Sanitary Survey was initiated by the Santa Barbara Water Purveyors Agency (a JPA) and ultimately performed by Summers Engineering, Inc. Since that time, updates to the survey have occurred every five years in 2000, 2005, and 2010, and have been completed by the same firm. In 2010, COMB became involved in arranging for the completion of the survey and collection of costs from participating agencies. The City of Lompoc (City) has historically participated with a contribution of 6.8% toward total costs of the survey. The attached proposal has been provided to the City's Utilities Director and has been accepted for participation. The 2015 (2016) update shall include a summary of the original survey and updates, progress on each recommendation, water quality data update and information, findings, recommendations, and a conclusion. The estimated cost of the survey is not-to-exceed \$61,000 and was *not* included in the FY 2015-16 COMB Budget. The division of costs is identified below.

Santa Ynez River Watershed Upstream of Bradbury Dam

Based on the area surveyed plus the percentage of water entitlement of the Cachuma Project as indicated in prior sanitary surveys.

Glen Anne Creek Watershed Upstream of Glen Anne Dam

Based on the area surveyed plus the percentage of water entitlement of the Cachuma Project as indicated in prior sanitary surveys.

Glen Anne reservoir has been under storage restrictions by the USBR and may be removed from the sanitary survey due to inactive status. This determination will be made once presented in the initial meeting with the regulatory agency and the participating water agencies.

Lauro Creek Watershed Upstream of Lauro Dam

Based on the cost sharing arrangement set forth in the JPA providing for Water Treatment (Cater Treatment Plant) as indicated in prior surveys.

San Miguelito Creek Watershed Upstream of Frick Springs

The City of Lompoc is the only water purveyor obtaining a surface water supply from the San Miguelito Creek watershed upstream of Frick Springs.

FISCAL IMPACTS:

The total allocated costs of the survey below reflect a similar cost distribution of past survey updates.

PARTICIPATING AGENCY	LOCATION				TOTAL	Percentage Share
	Santa Ynez	San Miguelito	Glen Anne	Lauro		
Carpinteria VWD	\$ 3,526	\$ -	\$ 400	\$ 833	\$ 4,758	7.8%
Goleta WD	11,603	-	1,329	-	\$ 12,932	21.2%
Montecito WD	4,358	-	377	816	\$ 5,551	9.1%
City of SB	26,822	-	1,180	2,498	\$ 30,500	50.0%
Santa Ynez ID No.1	3,111	-	-	-	\$ 3,111	5.1%
City of Lompoc	-	4,148	-	-	\$ 4,148	6.8%
Totals	\$ 49,419	\$ 4,148	\$ 3,287	\$ 4,147	\$ 61,000	100%

The City of Lompoc has confirmed participating in costs of 6.8% which equates to \$4,148 and will be billed separately under terms of a purchase order. Since ID No.1 does not participate in the Operation Division budget assessments, a separate billing is proposed for collecting their portion of the survey costs of \$3,111. The remaining costs for the South Coast Member Agencies equates to ~\$54,000. The proposed COMB budget adjustment consists of transferring \$54,000 from the Sheffield Tunnel Inspection special projects line item in the Operations Division budget to the Watershed Sanitary Survey line item. A proposed budget adjustment is outlined as follows:

Account Number	Account Name	FY 2015-16 Budget	Proposed Adjustment	Remaining Budget
6123	Sheffield Tunnel Inspection	\$ 100,000	\$ (54,000)	\$ 46,000
6100	Watershed Sanitary Survey	\$ -	\$ 54,000	\$ 54,000

LEGAL CONCURRENCE:

The update is in compliance with Surface Water Treatment Rule Section 64665.

ENVIRONMENTAL:

The update will evaluate water quality data within the watershed.

RECOMMENDATION:

Staff recommends submittal of the following to the Board for approval:

- 1) Proposed budget adjustment in the amount of \$54,000 with the separate collection of costs from the City of Lompoc and Santa Ynez River Water Conservation District, ID No.1 as outlined above.
- 2) Authorization for the Interim General Manager to execute a Professional Services Agreement with Summers Engineering, Inc. in an amount not-to-exceed \$61,000.

LIST OF EXHIBITS:

- 1) Summers Engineering, Inc. Proposal

SUMMERS ENGINEERING, INC.

CONSULTING ENGINEERS

887 N. IRWIN ST. - P. O. BOX 1122
HANFORD, CALIFORNIA 93232-1122

JOSEPH C. MCGAHAN
ROGER L. REYNOLDS
BRIAN J. SKAGGS
SCOTT L. JACOBSON
JAMES C. LINNEMAN

TELEPHONE
(559) 582-9237
FAX
(559) 582-7632

January 30, 2016

Janet Gingras, Interim General Manager
Cachuma Operations and Maintenance Board
3301 Laurel Canyon Road
Santa Barbara, CA 93105-2017

Subject: Draft Proposal for Watershed Sanitary Survey Update

Dear Ms. Gingras:

Thank you for contacting Summers Engineering, Inc. (SEI) for a proposal to update your Watershed Sanitary Survey. SEI originally prepared the first survey in 1995 and updated the survey in 2000, 2005 and 2011 for the following watersheds: 1) Santa Ynez River above Bradbury Dam; 2) West Fork of Glen Annie Canyon above Glen Annie Dam; 3) Lauro Canyon above Lauro Dam; and 4) The watershed above the City of Lompoc's Frick Springs.

It is our understanding the California State Water Resources Control Board Division of Drinking Water (DDW) has not forwarded a letter discussing any required changes for the preparation of Watershed Sanitary Survey Updates. It is understood the Division of Drinking Water had expected field survey work for the update would be conducted during 2015 with a final report prepared in 2016. If awarded the job SEI will initially meet with local DDW staff to review any opinions or concerns regarding the respective watersheds and water quality issues. This will allow SEI to make sure their concerns are addressed in some manner in the report. This will be the 5th Watershed Sanitary Survey. Another goal will be to review with DDW staff recommendations which could simplify preparation of the 2016 and future reports.

Attached is a Draft Scope of Work based on previous outlines of what DDW had requested be included in update reports. The anticipated work schedule would be to hold initial meetings with DDW, Cachuma Operation & Maintenance Board and the individual public water suppliers, to drive through and survey the public portions of each watershed, and then set up and tour the actual diversion facilities in each sub watershed with each of the public water suppliers during the first 4 months. This would allow SEI to complete the survey portion of the update. The plan would be to then write the report and submit a draft report for review by the end of summer.

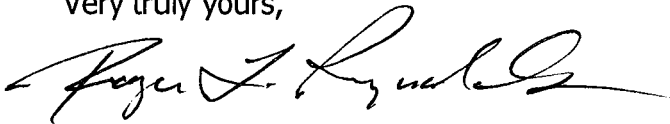
The estimated cost has been increased from the 2011 report and is listed in the attached Table 1. We are hopeful the preparation of the 2016 report can be simplified and costs reduced, but at this time there is no certainty this can be done. This update is not just a one watershed sanitary survey. The preparation of the report will include a field survey, review, and water quality review and data summary of water supplies from the four (4) watersheds listed above and the additional two (2) upstream watersheds on the Santa Ynez River at Gibraltar Reservoir and Jameson Lake. SEI time and costs will be billed on a time and material basis not to exceed the estimated cost

listed in Table 1. Based on our experience and contacts on the original survey and updates, SEI believes the preparation of this updated survey can move forward in a straightforward process.

The biggest issues addressed in the 2011 Update were impacts from the severe fires occurring in 2007, 2008 and 2009 within some of the watersheds and the resulting water quality issues created and addressed by the water treatment plant operations of the cities and water agencies. SEI's will work in close coordination with the Cachuma Operations and Maintenance Board, the cities, and the respective public water agencies. Meetings would be held, as needed, to review and discuss findings and the preparation of the report.

Please let me know if you have any questions or concerns. SEI looks forward to the opportunity of again working with the participating public water agencies of Santa Barbara County.

Very truly yours,

A handwritten signature in black ink, appearing to read "Roger L. Reynolds", written in a cursive style.

Roger L. Reynolds

DRAFT SCOPE OF WORK

TASK 1

Prepare an Executive Summary with findings and recommendations.

The original 1995 survey and each of the next five-year updates included an Executive Summary with findings and recommendations. This summary will be reproduced, and modified as needed for inclusion in the updated report.

TASK 2

Summarize changes and progress made on recommendations provided in the original and updated surveys.

The participating member agencies and any other public agencies having responsibility over the recommendations made in the original survey and five-year updates will be contacted to review the progress and/or changes made on any of the recommendations.

TASK 3

Review prior survey reports and provide current summary of changes and improvements made in the watersheds.

A reconnaissance field survey of all of the watersheds will be made. The owners of the respective surface water supply facilities in each watershed will be contacted to discuss any known changes in the watershed and to provide access for review of all watershed water supply facilities as appropriate. Information on changes or known physical improvements in the watersheds will be updated.

TASK 4

Provide a summary of the raw and treated water quality data collected by the applicable water suppliers of the respective watersheds since 2011.

Water quality data for the 2011 – 2015 period will be obtained from the participating agencies. A summary of the annual raw water quality data collected by (1) the City of Santa Barbara at Gibraltar Reservoir, Lake Cachuma, and the Cater Water treatment Plant, (2) the Goleta Water District at Corona Del Mar Water Treatment Plant, (3) the Montecito Water District at Jameson Lake, Fox Creek, and the Doulton Tunnel South Portal, and (4) the City of Lompoc at Frick Springs will be prepared. A summary of the

annual treated water quality data at each of the respective water treatment plants will also be prepared.

TASK 5

Evaluate the (2011 – 2015) watershed raw water quality data. Provide a summary of each respective water system’s ability to comply with current and Enhanced Surface Water Treatment Rules.

The adequacy of existing watershed water quality monitoring programs will be evaluated and assessed based on each water systems ability to monitor potential contaminants of concern. A summary will be provided on each systems ability to meet the current Surface Water Treatment Rules.

TASK 6

Provide draft report with conclusions and recommendations.

Our approach in conducting this update to the Watershed Sanitary Survey will be to work in close coordination with the participating public water agencies of Santa Barbara County and the Cachuma Operations and Maintenance Board. Meetings would be held, if needed, to review and discuss all of the updated findings. A draft Updated Watershed Sanitary Survey report with key conclusions and recommendations will be prepared and forwarded to each public water agency for review and comment before the report is finalized.

TASK 7

Provide a brief summary of security measures in the watershed and treatment facilities.

The owners of the respective surface water supply facilities in each watershed and the individual treatment facilities will be contacted to review the security measures in place. A brief summary of the measures being taken will be prepared. This summary will be reviewed with the subcommittee for appropriateness.

TASK 8

Prepare Final Report

Following a review of comments received on the draft Updated Watershed Sanitary Survey report, a final report will be prepared incorporating recommended changes for submission to the California Division of Drinking Water prior to September 1, 2016.

TABLE 1

**ENGINEERING COST ESTIMATE
2016 WATERSHED SANITARY SURVEY UPDATE**

Task No.	Description	Cost
1	Prepare Executive Summary with findings & recommendations	\$1,638
2	Summarize progress made on recommendations from the original & updated surveys	\$3,937
3	Review prior reports & provide current summary of changes and improvements made in watersheds	\$8,900
4	Provide summary of 2011 - 2015 water quality data	\$5,438
5	Evaluate 2011 - 2015 water quality data	\$6,237
6	Provide Key Conclusions and Recommendations in Draft Report	\$16,700
7	Provide brief summary of Security in watersheds	\$1,937
8	Prepare Final Report	\$4,125
	Subtotal	\$48,912
	Direct Costs*	\$4,410
	15% Contingencies and Incidentals**	\$7,678
	Total Estimated Cost	\$61,000

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	March 28, 2016
Submitted by:	Dave Stewart
Approved by:	Janet Gingras

SUBJECT: HDR Engineering, Inc. Proposal – Engineering Design: Air Vacuum Air Release Valve (AVAR) and Blow-off Structures Rehabilitation/Replacement

SUMMARY:

In January, COMB distributed Requests for Proposals (RFPs) for engineering design services on three related projects dealing with the rehabilitation and/or replacement of numerous air vacuum air release (AVAR) valves, riser pipes, and blow-off structures along the South Coast Conduit (SCC). The related projects' engineering phases will be completed concurrently with anticipation of a system shutdown for construction of the project.

The RFPs were provided to four engineering firms: Flowers & Associates, Inc., HDR Engineering, Inc. (HDR), AECOM, and MNS Engineers, Inc., with a submittal deadline of Friday, February 26, 2016. COMB received proposals from three of the four firms, the exception being MNS Engineers, Inc. Upon review, staff determined HDR Engineering, Inc. to be the lowest cost, most responsive proposal.

FISCAL IMPACTS:

A total of \$240,000 has been approved within the Fiscal Year 2015-16 Budget for the engineering phase of the related AVAR / Blow-off rehabilitation project. HDR has estimated a total cost of \$137,000 for engineering design services work.

LEGAL CONCURRENCE:

N/A

ENVIRONMENTAL:

As part of the proposal, HDR will assist COMB in applying for the required encroachment permits.

COMMITTEE STATUS:

The Operations Committee reviewed the proposal and recommended submittal to the Board for approval.

RECOMMENDATION:

Authorize the Interim General Manager to enter into a Professional Services Agreement with HDR Engineering, Inc. for engineering design services on the AVAR and Blow-off structures rehabilitation project.

LIST OF EXHIBITS:

- 1) HDR Engineering, Inc. Proposal

February
2016



Proposal

Cachuma Operations and Maintenance Board Engineering Services for

- I. **PROJECT ID#: 2014-C-62:** South Coast Conduit Riser Pipe Replacement, Air Vacuum Air Release (AVAR) Valve Structures
- II. **PROJECT ID#: 2013-1-42:** South Coast Conduit Blow-off Structure Rehabilitation
- III. **PROJECT ID#: 2012-1-26:** South Coast Conduit Air Vacuum Air Release (AVAR) Valve Replacement/Relocation





February 29, 2016

Dave Stewart
Operations Division Manager
Cachuma Operations and Maintenance Board
3301 Laurel Canyon Road
Santa Barbara, Ca 93105
Sent via Email: dstewart@cachuma-board.org

RE: **Proposal to provide engineering services for projects 2014-C-62, 2013-1-42, 2012-1-26**

Dear Mr. Stewart,

HDR appreciates the opportunity to provide this proposal to assist COMB in developing plans for repairing and upgrading blow-offs and air and vacuum/air relief valves (AVAR) facilities along the South Coast Conduit (SCC). While the goals of this project are clear, its implementation has been problematic. Successful completion will require a strategy involving detailed assessment, alternatives investigation and member agency cooperation and buy-in.

Repair and upgrades to the blow-offs and AVAR facilities downstream of Lauro Reservoir are essential for continued reliable delivery of water to Montecito and Carpinteria. Without this project, unscheduled emergency repairs would eventually be required, interrupting water deliveries to large areas for long-periods. These upgrades are also needed to comply with State health regulations. However, because the SCC is so essential to the Montecito Water District (MWD) and Carpinteria Valley Water District (CVWD) systems, it has been difficult to accomplish these projects. Normally, the work would be done with the pipeline out of service.

HDR proposes a three-phase approach involving (1) condition assessment, (2) alternatives analysis, and (3) bid document preparation. Through this approach, we will work collaboratively with COMB, MWD, and CVWD staffs to determine the optimum rehabilitation strategies. Later phases of work will not be authorized until the earlier phases are completed and accepted.

HDR offers a truly unique team for completion of this project. Expert corrosion engineers from our legacy "Schiff" organization will be led by national water infrastructure expert Dan Ellison. Dan also happens to be familiar with the systems, policies, and staff of COMB, MWD, and CVWD and is 30 minutes from your office. We look forward to discussing our approach and team with you.

Sincerely,

HDR Engineering, Inc.

Dan Ellison, PE
Project Manager
(213) 200-5152

Kip D. Field, PE
Vice President

hdrinc.com

HDR Engineering, Inc.
701 E. Santa Clara Street #36 | Ventura, CA 93001
T 805.665.6353 F 805.665.6354

1. Identification of Proposer and Executive Summary

COMB wishes to rehabilitate and upgrade 25 blow-off and 26 air and vacuum/air release (AVAR) valve facilities. The improvements are needed to comply with California State regulations and to prevent unscheduled emergency repairs which would jeopardize water deliveries to Montecito and Carpinteria. Implementing these projects has been problematic, since they would normally require a shutdown of the South Coast Conduit, which also serves as a distribution main for the Montecito Water District and Carpinteria Valley Water District.

HDR proposes to complete the engineering for this project in three phases:

1. During the first phase, a detailed assessment of site conditions, equipment conditions, and access constraints will be performed and documented for each location
2. During the second phase, alternative strategies for implementing the project will be investigated and a recommended approach will be determined
3. During the third phase, plans and specifications will be prepared for bidding

The completion and acceptance of each phase of work will precede the start of work on the next phase. Budgets and schedules will be adjustable, if changes occur along the way. HDR will engage the staffs of COMB, MWD, and CVWD in order to collaboratively develop an optimum implementation strategy. Because of varying conditions and constraints, the optimum project may involve a combination of strategies including phased outages, bypass pipelines, and in-service rehabilitation.

HDR offers a uniquely qualified team for completion of this project. Expert corrosion engineers will be led by a nationally recognized water infrastructure expert, who also happens to be familiar with the systems, policies, and staff of COMB, MWD, and CVWD, and is 30 minutes from COMB headquarters.

HDR will employ state-of-the art condition assessment and project management tools and processes to assure the on-time, on-budget delivery of a high-quality product. In accordance with the detailed scope of services and schedule included in this proposal, plans and specs should be ready for bid by the end of the year.



HDR FAST FACTS



Established 1917



HDR Corporate
8404 Indian Hills Dr., Omaha, NE 68114



Project Manager Office Location
701 E. Santa Clara Street #36 | Ventura, CA 93001
T 805.665.6353 F 805.665.6354



300: Number of Southern California employees
11: Offices in Southern California



2. Project Overview, Design and General Technical Approach

Project Overview

The Cachuma Operations and Maintenance Board (COMB) has encountered difficulties in completing three projects involving maintenance, rehabilitation, and modifications to the South Coast Conduit (SCC). A fundamental problem has been an inability to remove the eastern portion of the SCC from operations (even on a temporary basis), because it serves as a distribution main for both Montecito Water District (MWD) and Carpinteria Valley Water District (CVMWD). The completion of these projects is required for the compliance with regulations and the continued reliable and safe operation of the SCC, providing delivery of water to MWD and CVWD.

The three projects are:

1. **AVAR Riser Pipe Replacement.** Project 1 entails replacement of riser pipes between the SCC and gate valves at 20 air and vacuum release valve structures. Due to advanced corrosion, some of these pipes appear to be near failure. By replacing these pipes prior to failure, COMB avoids the added costs and risks associated with making emergency repairs, including unscheduled shutdowns of the SCC.
2. **Blow-off Structure Rehabilitation.** Project 2 consists of replacing various components at 25 different blow-off structures, including lower riser pipes, manhole covers, upper spools, and gate valves. Because of corrosion, these components are in various stages of failure.
3. **AVAR Relocation.** Project 3 involves the relocation of 6 air and vacuum release valves to above-grade locations. As part of this relocation, manhole covers, riser pipes, gate valves and laterals are to be replaced in order to provide a long-lasting solution. Suitable locations for the above-grade equipment need to be determined and encroachment permits (or easements) must be obtained.

2. During the second phase, alternative strategies for implementing the project will be investigated and a recommended approach will be determined.
3. During the third phase, plans and specifications will be prepared for bidding

Phase 100 - Assessment of Conditions

Each of the blow-off and AVAR facilities will be investigated and documented with annotated pictures and detailed notes, using checklists prepared beforehand. Relevant measurements will be taken of pipes and clearances. Where appropriate, this assessment will involve the collection of corrosion assessment data (ultrasonic thicknesses, dry film thicknesses, lead coating content, etc.), which will be used in determining the general integrity of materials.

Phase 200 - Alternative Strategies for Project Implementation

Due to the difficulties in removing the SCC from service, three alternatives will be investigated as part of preliminary design. These are:

1. **Phased SCC Outages.** HDR will facilitate meetings with MWD and CVWD to discuss what durations and phasing options exist for SCC outages that could be used to accomplish the work.
2. **Bypass pipelines.** HDR will investigate the general feasibility of employing hot-taps and line stops to install temporary bypass pipelines for continuation of water deliveries to MWD and CVWD during construction.
3. **In-service rehabilitation.** HDR will explore the feasibility of repairing, reinforcing, and replacing materials while keeping the SCC in services. Among the options to be explored are: (1) cleaning and recoating; (2) leak stop epoxy or materials; (3) repair clamps; (4) concrete encasement; (5) hot-taps; and (6) pipe-freeze plugs.

Design and General Technical Approach

HDR proposes to complete this project in three phases:

1. During the first phase, a detailed assessment of site conditions, equipment conditions, and access constraints will be performed and documented for each location.

Because of varying conditions and constraints, the optimum project may involve a combination of these strategies. The construction work would likely be phased for periods when flows in the SCC are expected to be low. Due to the current drought conditions, it may be advantageous to do this work soon, since delivery of water from Lake Cachuma is severely constrained.

Scope of Services

HDR will perform the following specific tasks.

Phase 100 – Condition and Site Assessment

- 101. **Project set up, kickoff meeting, data collection and review.** Set up project files/accounting system and prepare project management plant. Conduct QC and 0% reviews. Meet with COMB staff. Obtain and review:
 - a. Record drawings
 - b. Atlas
 - c. Previous studies and reports
 - d. Electronic files, as available (GIS, CAD)
- 102. **Field investigation.** With COMB staff assistance, visit, enter, and assess each blow-off and AVAR involved in the project:
 - a. 20 AVAR structures requiring corrosion repairs
 - b. 25 blowoff structures requiring corrosion repairs
 - c. 6 AVAR structures requiring relocation
- 103. **Report.** Prepare a technical memorandum that documents the findings of Phase 100, including the condition of pipes, covers, valves and appurtenances.
 - a. **Quality control review** by senior HDR engineer

Phase 200 – Investigation of Project Alternatives

- 201. **Alternatives Investigation.** HDR will investigate alternative strategies for implementing the construction of these projects: (1) Phased SCC Outages, (2) Bypass Pipelines; (3) In-service rehabilitation.
 - a. **Stakeholders meetings and agency data review.** HDR will facilitate meetings with COMB, MWD and CVWD staff to discuss what durations and phasing options exist for SCC outages that could be used to accomplish the work. Discussions will include operational strategies for dealing with shutdowns of various duration. Interagency interties will be discussed. Copies of master plans and other relevant documents will be reviewed, when they are available.
 - i. Two (2) half-day meetings
 - ii. Prepare agenda and minutes for each meeting
 - iii. Prepare graphics and handouts for facilitation of discussions

- iv. Additional time is allotted for email exchanges and conference calls (8 hours)
- b. **Bypass pipelines.** HDR will investigate the general feasibility of employing hot-taps and line stops to install temporary bypass pipelines for continuation of water deliveries to MWD and CVWD during construction. The general cost and feasibility of installing bypass pipelines in up to 3 locations will be investigated. Work will include the preparation of sketches and contacting contractors and vendors.
- c. **In-service rehabilitation.** HDR will investigate strategies for improving the structural integrity of AVAR and blow-off components and for installing above-grade AVARs, without a shutdown of the SCC or without dewatering of the SCC. Strategies to be investigated include will include (1) cleaning and recoating; (2) leak stop epoxy or materials; (3) repair clamps; (4) concrete encasement; (5) hot-taps; and (6) pipe-freeze plugs. Work will include the preparation of sketches and contacting contractors and vendors.
- 202. **Permit Investigation.** Investigate permit requirements for the four AVARs to be installed in public rights of way. Contact/meet with permit agency. Obtain permit application. Discuss features of proposed projects. Meetings are planned for:
 - a. City of Santa Barbara Public Works (AVAR at Sta. 352+07)
 - b. County of Santa Barbara PW (Montecito, AVAR at Sta. 442+50)
 - c. CalTrans (AVAR at Sta. 643+92 and 676+67)
- 203. **Alternatives Review Workshop.** HDR will facilitate a half-day meeting with COMB and stakeholder staff to present the results of its preliminary analysis. Discussion will include permits, alternative strategies, budgetary costs, and recommendations. The goal of the meeting is to achieve consensus regarding the components of the preferred project.
- 204. **Cost Analysis.** HDR will finalize its preliminary opinion of cost for the preferred project.
- 205. **Report.** HDR will prepare a preliminary design report, describing the alternatives considered, the features and components of the preferred project, the criteria for design, a schedule for construction, and budgetary costs.
 - a. **Draft report** will be transmitted in PDF format.
 - b. **QC review** by senior HDR engineer.

- c. **Final report** will take into consideration comments provided by COMB. Five hard copies and PDF versions will be provided. If requested, native files (Word, Excel, ACAD) will also be provided.

Phase 300 – Plans and Specifications

301. **Plans.** Approximately 20 drawings will be prepared:
- a. Cover sheet, map, drawing index
 - b. Atlas sheets (9) showing locations of all AVARs and blow-offs included in the project. Sheets will be prepared using COMB GIS or existing atlas drawings.
 - c. Detail sheets showing 6 new above-grade AVAR (5 sheets)
 - d. Schedule and details for 20 AVAR corrosion repairs (2 sheets)
 - e. Schedule and details for 25 blow-off corrosion repairs (3 sheets)
302. **Specifications.**
- a. Prepare technical specifications using HDR 6-digit (ASCII-based) master specification system
 - b. Edit COMB furnished front-end documents (general and special conditions; bid documents)
303. **Design Submittals.**
- a. **50% Review.** To include drawings at approximately 60% completion. To include outline of specifications.
 - b. **90% Review.** To include essentially complete drawings and specifications.
 - c. **Ready-to-Bid.** Provide 5 hard copies and PDF and native files. Plans to be printed in 11" x 17" format.
304. **Design Review Meetings.** 4 Meetings at COMB HQ and/or project site:
- a. **Site investigations** (2). With COMB assistance, make 2 additional site investigation to verify pertinent specific conditions during the completion of the design
 - b. **50% Review**
 - c. **90% Review**
305. **QC Review.** Plans and specs to be reviewed in detail at the 90% level.
306. **Permit Assistance.** HDR will assist COMB in application for encroachment permits from City of Santa Barbara, County of Santa Barbara, and CalTrans for the new above-grade AVARs in public rights of way. Project activities at the other sites are assumed to be covered by COMB's existing encroachment permits and easements.
307. **Bid-phase services.** Participate in one-day bidders conference and prepare 2 bid addenda.

Assumptions

The fee estimate is based on the scope of services presented above and the assumptions listed below.

1. **Agreement.** HDR services will be invoiced on a time-and-materials basis, in accordance with the terms and conditions of a mutually-acceptable agreement. Labor fees will be based on HDR's standard 3.1 raw-rate multiplier. Other direct project expenses will be billed at cost.
2. **Access.** COMB will provide access to AVAR and blowoff structures during design, including setting up temporary traffic control and confined-space procedures. HDR can provide permit-required confined space entry as an extra cost.
3. **Hydraulic modeling.** HDR's work does not include modeling of the MWD and CVMWD distribution networks.
4. **CEQA.** It is assumed that this project involves maintenance of the existing SCC facilities and is categorically exempt. HDR services do not include CEQA investigations or environmental agency permits.
5. **Property access.** It is assumed that COMB has rights of access to all blow-offs and AVARs that are not in public right of ways and will make any necessary arrangements for access for design and construction.
6. **Easement Acquisition.** If additional easements are needed for temporary or permanent facilities, these will be acquired by COMB or others, or additional fee will be authorized for HDR assistance.
7. **Construction Phase Engineering Assistance.** A proposal for construction-phase services will be provided after the project is out to bid, when the range of required engineering services will be better known.

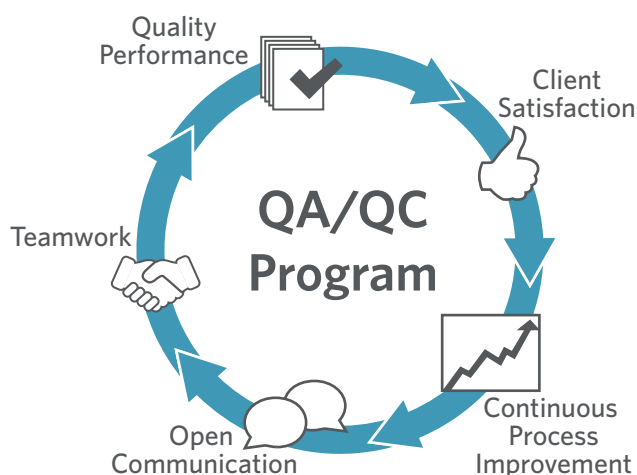
3. Capabilities, Tools and Processes

HDR will draw upon its technical staff of more than 300 employees in Southern California to execute the scope of services described below. Work will be managed and directed from our office in Ventura, less than 30 minutes from COMB's headquarters. Corrosion engineering field support and expertise will be provided from specialty staff of NACE-certified engineers and technicians in our Claremont, California office (former Schiff Associates). Permit acquisition, CAD drafting, and other engineering technical assistance will be provided by staff in our So. Cal. headquarters in Irvine.

Project Management Tools

HDR has standard processes and tools that make the coordination of work between these offices seamless and routine. These include:

- **Project Management Processes:** Project management plan, budgeting tools, cost tracking tools, earned-value management, and periodic management reviews of schedule and process.
- Document tracking, sharing systems, retrieval, retention and control systems
- Project communications systems: computer screen sharing, video conferencing, instant messaging, and email tracking
- **Quality assurance processes:** processes include each step of the project development, from initial scope, schedule and budget development to delivery of final deliverables and archiving of files.



Our project management approach focuses on:

- Adherence to COMB requirements
- Listening and understanding all stakeholders needs
- Providing the right information to make sound decisions
- Managing scope, budget and resources
- Implementing QC procedures
- Organizing and conducting progress reviews and coordination meetings

4. Statement of Staff Qualifications

Team Organization

Our approach to building project teams is simple: **engage the right people at the right time to deliver project success.** We have developed our team to respond to the COMB’s technical needs and to provide a strong balance of local know-how with regional experience performing similar projects. The structure of our project team is presented in Figure 4-1 HDR Team Organization Chart. Our project organization is described below and resumes are provided on the following pages.

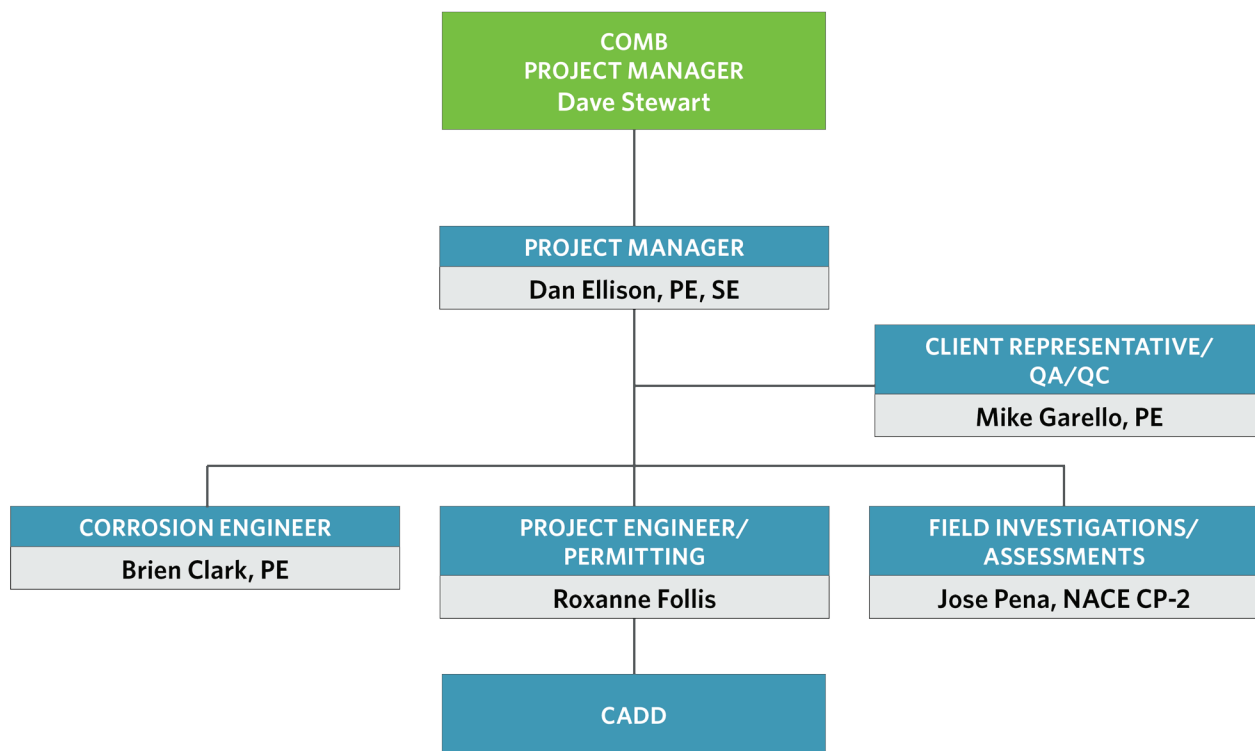
Project Management

Our team is led by Dan Ellison, PE, who is well known to COMB’s designated project manager for this project. Dan is supported by multi-disciplinary professionals who have a successful track record helping similar utilities assess and rehabilitate critical water infrastructure. All work and communication will flow up through Dan, who will serve as the single point of contact. He will communicate project progress with you and ensure that our team’s efforts align with your goals, needs and expectations.

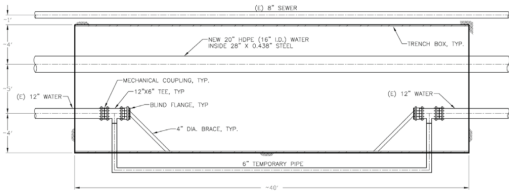
Project Organization

The HDR Team is organized to support the technical requirements and schedule demands of the project and meet COMB’s goals and expectations. Under our proposed structure, project management is lean and efficient, while the majority of our resources center around three key tasks: corrosion, engineering/permitting, and field investigations/assessments.

Figure 4-1: HDR Team Organization Chart



5. Related Project Experience



1. Pipeline Crossing, UPRR Intermodal, Cal Water Service Company, Commerce, CA

Reference: Carmelo Sorce, Engineering Manager, California Water Service Company, CSorce@calwater.com; 310.257.1475

Project manager for a study of alternative methods of installing a 16-inch water main across the 1100-ft wide Union Pacific Intermodal Yard. Alternatives considered: HDD, bore-and-jack, pipe bursting, open-trench and various combinations. Study ultimate recommended a series of bore-and-jack installations, connected with open-trench construction. Report also provided recommendations for bypass piping, casing pipe, carrier pipes, and cathodic/corrosion protection. Study completed in 2015. Construction starting in 2016.



2. Emergency Pumping Facility, Cachuma Operations and Maintenance Board, Santa Barbara, CA

Reference: Dave Stewart, Operations Manager, COMB, dstewart@cachuma-board.org; 805.687.4011

In late 2013, COMB engaged HDR to act as “owners engineer” to orchestrate an emergency project to design, build, operate and maintain (DBOM) a high-volume, barge-mounted pumping facility, delivering up to 45 MGD to the south coast. The shrinking water level at the lake means that water flow to the existing tunnel inlet facility will be impossible without this floating pump station in place. HDR developed an RFQ, RFP, and helped with selection of the DBOM entity. HDR services have continued through design and construction and into the operations and maintenance of this critical facility. With HDR’s help and guidance, this project was completed well in advance and has operated well since it was commissioned.



3. Trunk Line Condition Assessment, LADWP, Los Angeles, CA

Reference: Terri Koch, Manager of Engineering Support Services, Los Angeles Department of Water and Power, terri.koch@ladwp.com; 213.367.4294.

In 2012, LADWP asked HDR to employ the acoustic velocity and noise correlation methods to assess the condition of two trunk lines in the LADWP system: (1) the Eagle Rock – Hollywood Outlet and (2) the Stone Canyon (Sunset Boulevard) trunk line. Both trunk lines were in dense urban areas on very heavily travelled streets. The results of the testing showed that active leaks were not occurring and that gross general deterioration had not occurred, although the potential existed for localized problems that might not be detected using the chosen assessment method, which utilizes hydrants, blowoffs, and other readily available points of connection.

6. Project Schedule & Estimated Time to Completion

TASK	APR-16	MAY-16	JUN-16	JUL-16	AUG-16	SEP-16	OCT-16	NOV-16	DEC-16
Phase 1 - Condition and Site Assessment									
101									
102									
103									
Phase 2 - Investigation of Project Alternatives									
201a									
201b									
201c									
202									
203									
204									
205									
Phase 3 - Plans & Specs & Bid Assist									
301									
302									
303									
304									
305									
306									
307									

7. Cost of Services Estimate

TASK NO.	DESCRIPTION	LEVEL OF EFFORT, HOURS												FEE, DOLLARS					
		PROJ MGR		QA/QC MGR		PROJ ENGR		CAD TECH		FIELD TECH		ACCTG MGR		TOTAL LABOR	LABOR	TECH CHG	ODC	TOTAL	TOTAL
		\$295	\$200	\$108	\$125	\$105	\$161	\$80											
Phase 1 - Condition and Site Assessment																			
101	Project set up, kickoff mtg, data review	4	8	8	1	1	4	4					22	3,238	81	81	3,400	3,400	
102	Field investigation: 51 sites	32				80							112	17,840	414	2,886	21,140	21,140	
103	Technical memo, including QC review	4	8	8	1	32	1	4				49	6,621	181	166	6,968	6,968		
	Subtotal 1	40	8	8	1	113	5	8				183	27,699	677	3,132	31,509	31,500	31,500	
Phase 2 - Investigation of Project Alternatives																			
201a	Stakeholder meetings (2) and correspondence	12	8	8	1			2				23	4,725	85	118	4,928	4,928		
201b	Bypass pipeline concepts (sketches), costs	8	4	16	8							36	5,888	133	147	6,168	6,168		
201c	In-service rehab concepts and costs	4	4	16	8		1					33	4,869	122	122	5,113	5,113		
202	Permit investigation (City, County, Caltrans)	2	8	8				2				12	1,614	44	40	1,699	1,699		
203	Alternatives review workshop	4	8	8				2				14	2,204	52	55	2,311	2,311		
204	Cost Analysis	2	12	12			1					15	2,047	56	51	2,154	2,154		
205	Report (draft, final & QC)	12	16	16	8			2				38	6,428	141	161	6,729	6,729		
	Subtotal 2	44	8	84	24	0	3	8				171	27,775	633	694	29,102	29,100	29,100	
Phase 3 - Plans & Specs & Bid Assist																			
301	Plans. Approximately 23 sheets	20	60	60	186		1					267	35,791	988	895	37,674	37,674		
302	Specifications	20	40	40				24				84	12,140	311	304	12,754	12,754		
303	Design submittals (50/90/final)	6	12	12				12				30	4,026	111	101	4,238	4,238		
304	Review and site meetings (4)	20	20	20		16						56	9,740	207	244	10,191	10,191		
305	Final QC review		16	4			1	2				23	3,953	85	99	4,137	4,137		
306	Permit assistance	2	24	24								26	3,182	96	80	3,358	3,358		
307	Bid-phase: prebid meeting and 2 addenda	8	8	8			4					20	3,868	74	97	4,039	4,039		
	Subtotal 3	76	16	168	186	16	6	38				506	72,700	1,872	1,818	76,390	76,400	76,400	
	TOTAL, hours	160	32	260	211	129	14	54				860	128,174	3,182	5,644	137,000	137,000	137,000	

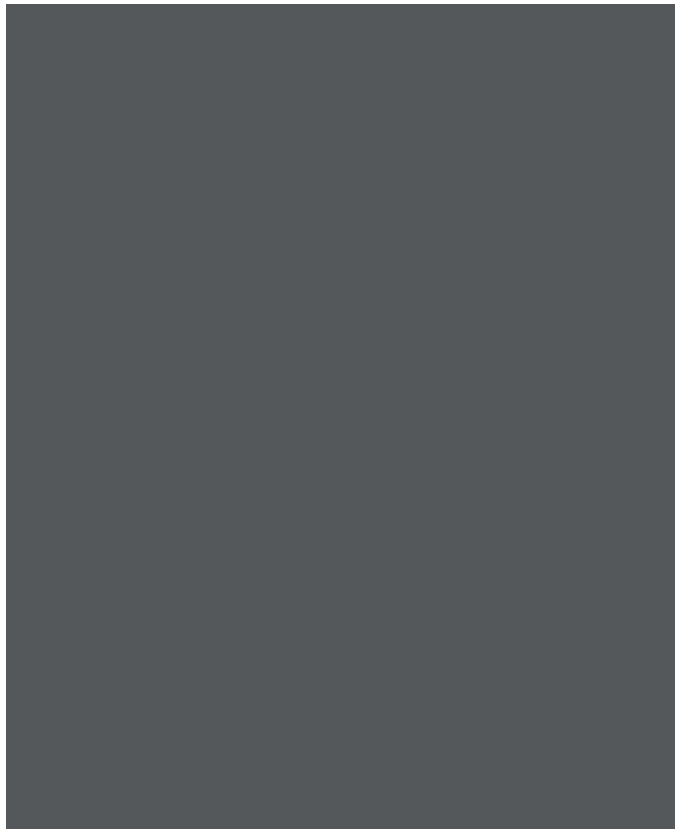
The fee estimate does not include detailed engineering (plans and specs) for construction of bypass pipelines. If such pipelines become part of the project implementation strategy, an appropriate fee proposal will be provided.



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We practice increased use of sustainable
materials and reduction of material use.

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CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	March 28, 2016
Submitted by:	Janet Gingras

SUBJECT: **AECOM Proposal – Development of Isolation Protocols**

SUMMARY:

In conjunction with the ongoing drought, receding lake levels and remaining carryover balances of the Member Agencies, the concept of physically restricting over-allocations related to each South Coast Agency's Cachuma carryover water has been a topic of discussion at the Cachuma Member Agency Manager's monthly meeting hosted by the County. It was suggested that COMB develop operational protocols for physical isolation of a Member Agency in the event a Member Agency exceeds their Cachuma carryover allocation. As the O & M contractor for Reclamation, COMB would not employ these isolation protocols unless and until directed by Reclamation.

Attached is the AECOM proposal for development of South Coast Conduit system isolation protocols. AECOM was selected to provide a proposal due to their prior extensive knowledge of the South Coast Conduit system. The pending work product can also be utilized for future operational reference in the event of a catastrophic event or an emergency shutdown situation.

FISCAL IMPACTS:

Included in FY 2015-16 Operating Budget.

LEGAL CONCURRENCE:

N/A

ENVIRONMENTAL:

N/A

COMMITTEE STATUS:

Operations Committee recommended submittal of AECOM proposal to the Board for approval.

RECOMMENDATION:

Staff recommends Board authorize the Interim General Manager to execute a Professional Services Agreement with AECOM for development of isolation protocols.

LIST OF EXHIBITS:

- 1) AECOM Proposal

February 16, 2016

Ms. Janet Gringas
Cachuma Operation & Maintenance Board
3301 Laurel Canyon Road
Santa Barbara, CA 93105

**Subject: Cachuma Operation & Maintenance Board (COMB)
Development of Protocol for System Isolation
Task Order No. 38**

Dear Janet:

As requested, please find attached our proposal to develop protocols to isolate each of the four Member Agency systems from the South Coast Conduit (SCC). It is our understanding that these services will be completed under a new task order based Engineering Services Agreement for COMB related projects. In summary, this Task Order provides for:

- ❖ Development of Protocols to Isolate the Goleta Water District, City of Santa Barbara, Montecito Water District and the Carpinteria Valley Water District in the event they exceed their Lake Cachuma entitlement.
- ❖ Meet with COMB and each of the districts to discuss the protocols

Our estimated not-to-exceed fee to complete the work is \$15,624.

After your review of the attached Scope of Work and concurrence, return one copy to our office along with the proposed Engineering Service Agreement. We sincerely appreciate the continued opportunity to provide engineering services to COMB. Please call if clarification is required.

Sincerely,

AECOM



Glen M. Hille, PE
Vice President

Approved by:
Cachuma Operations and Maintenance Board

General Manager

Date

Scope of Work – Task Order

Cachuma Operation and Maintenance Board

Development of Protocol for System Isolation

February 16, 2016
Page 1 of 3

Background and Overview

The Cachuma Operation and Maintenance Board (COMB) operates the South Coast Conduit (SCC) from the North Portal of the Teclate Tunnel to the Carpinteria Reservoir. Lake Cachuma is the primary water source for the entire system. The SCC serves the Goleta Water District, the City of Santa Barbara, the Montecito Water District and the Carpinteria Valley Water District. Each of the customers of the SCC has a maximum annual entitlement.

Levels in Lake Cachuma have been steadily dropping due to the extended drought conditions. As a result it may be necessary to cease water deliveries to one or more of the four customers when they reach their respective entitlement. To interrupt water deliveries to each customer it is necessary to develop protocols that can be followed to properly isolate each water system.

AECOM has been requested to develop protocols to isolate each of the four customers on the SCC. The following scope of services is proposed to meet the project goals.

Scope of Services

Task 38110 – Kickoff Meeting. AECOM will prepare for and attend a kickoff meeting to discuss the project specifics with COMB key staff members. Discussion will include available data, scope, schedule, budget and project constraints.

Task 38120 – Data Review. AECOM will review data related to existing connection points to each of the systems. It is assumed that accurate record drawings exist for valving, turnouts and any other control structures on both the SCC and customer connection points.

Task 38130 – Update System Graphics. AECOM will update the existing COMB generated graphic (see attached) to show primary control mechanisms including valving, turnouts, etc.

Task 38140 – Member Agency Meetings. AECOM will meet with COMB and each of the four member agencies to discuss existing infrastructure, access, and constraints.

Task 38150 – Protocol Development. AECOM will develop a Technical Memorandum (TM) that will identify the protocol to isolate each of the member agency's systems. The TM will include a Purpose and Scope, and a 1-page protocol for each of the four systems. Each system protocol will include a graphic detailing location of valving and a procedure for properly isolating the system.

Task 38160 – Review Meeting. AECOM will conduct a meeting with COMB and the four member agencies to present the protocols, discuss concerns and comments related to the TM.

Task 38170 – Final Technical Memorandum. AECOM will submit the final TM based on input from the draft TM and the review meeting.

Schedule

It is anticipated that the Scope of Services associated with this proposal can be completed in 45 calendar days from the notice to proceed.

Fee Estimate

The estimated engineering level of effort and fee are shown in the table below.

Task	Description	AECOM Level of Effort	
		(MH)	(\$)
38110	Kickoff Meeting	6	\$1,302
38120	Data Review	4	\$868
38130	Update System Graphics	8	\$1,736
38140	Member Agency Meeting	10	\$2,170
38150	Protocol Development	32	\$6,944
38160	Review Meeting	8	\$1,736
38170	Final Technical Memorandum	4	\$868
	Total	72	\$15,624

It is anticipated that an engineering fee of \$15,624 will be required to accomplish the above-referenced engineering tasks based on an average of \$200 per MH, and 8.5% for other direct costs. Compensation will be on a time and materials basis consistent with our attached 2016 Fee Schedule.

Supplemental Conditions

Cost Estimate

AECOM has no control over the cost of labor, materials, equipment or services furnished by others or over Contractor's methods of determining prices, or other competitive bidding or market conditions, practices or omissions on the site. Any cost estimates provided by the Consultant will be made on the basis of his experience and judgment. Estimates of probable construction costs may vary from actual construction costs.

Re-Use of Documents

Documents, drawings, specifications, and electronic information/data, including computer aided drafting and design ("CADD"), prepared by CONSULTANT pursuant to this agreement are not intended or represented to be suitable for reuse by CLIENT or others on extensions of the Project or on any other project. Any use of completed documents for other projects and any use of incomplete documents without specific written authorization from CONSULTANT will be at CLIENT's sole risk and without liability to CONSULTANT.

Right to Rely

Consistent with the professional standard of care and unless specifically provided herein, AECOM shall be entitled to rely upon the accuracy of data and information provided by the COMB or others without independent review or evaluation.

Assumptions

In preparing this proposal, the following assumptions were made:

- Existing and accurate information is available that describes the system and all appurtenances.
- No field work is required.
- No modeling is required.
- Proposal is valid for sixty days.
- COMB and/or member agencies have "base map" materials. Survey and/or aerial mapping is not anticipated but can be provided if authorized by amendment.

AECOM
FEE SCHEDULE FOR PROFESSIONAL SERVICES
Effective January 1, 2016

Engineers, Planners, Architects, Scientists:

Student Assistant	\$ 85.00 per hour
Assistant I	\$ 103.00 per hour
Assistant II	\$ 117.00 per hour
Associate	\$ 138.00 per hour
Senior I	\$ 164.00 per hour
Senior II	\$ 190.00 per hour
Principal	\$ 228.00 per hour
Company Officer	\$ 247.00 per hour
Special Consultant	\$ 193.00 per hour

Construction Administration Personnel:

Resident Project Representative	\$ 114.00 per hour
Senior Resident Project Representative	\$ 133.00 per hour
Resident Engineer	\$ 162.00 per hour
Construction Services Manager	\$ 214.00 per hour

Technical Support Staff:

Clerical/General Office	\$ 74.00 per hour
Administrative Specialist	\$ 86.00 per hour
Drafter/CADD Technician	\$ 77.00 per hour
Assistant CADD Operator	\$ 89.00 per hour
Designer/CADD Operator	\$ 101.00 per hour
Senior Designer/Design CADD Operator	\$ 117.00 per hour
Design/CADD Supervisor	\$ 130.00 per hour

General Project Expenses ^{1/}

8.5% of Labor

Direct Project Expenses

Other Reproduction (8 1/2 x11 / 11x17 Color)	\$1.15 / 1.50 per page
Plan Sheet Printing - In House Bond/Vellum/Mylar	\$3.00/4.00/7.00 per sheet
Subcontracted Services/Reproduction	Cost + 15%
Subcontracted or Subconsultant Services	Cost + 15%
Auto Mileage for Construction Phase Services	\$0.60 per mile
Travel & Subsistence (other than mileage)	Cost
Miscellaneous Materials	Cost + 15%

If authorized by the Client, an overtime premium multiplier of 1.5 may be applied to the billing rate of hourly personnel who work overtime in order to meet a deadline which cannot be met during normal hours.

Applicable sales tax, if any, will be added to these rates. Invoices will be rendered monthly. Payment is due upon presentation. A late payment finance charge of 1.5% per month (but not exceeding the maximum rate allowable by law) will be applied to any unpaid balance commencing 30 days after the date of the original invoice.

Fee schedule is subject to change annually.

^{1/} *Includes mail, telephone, fax, office photo copies, personal computers and mileage (except as noted).*

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	March 28, 2016
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Quiota Creek Crossing 3 Fish Passage Improvement Project – Request for Change Order Approval and Final Report

SUMMARY:

Project Description: A 53-foot prefabricated bottomless arched culvert with four wing walls was installed to replace the damaged concrete low flow crossing at Quiota Creek Crossing 3 (Figures 1-4). 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. The project started on 10/1/15 and was successfully finished on 12/18/15. All elements of the project were built as designed and all permit conditions were followed throughout the project. The total project cost came in under budget. This project was listed as a proposed action in the 2000 Cachuma Project Biological Opinion.

Additional Costs: There were 2 additional change orders at the end of the project. The first, Change Order No. 3, addressed misalignment of bridge rail post holes as casted at Pre-Con in Simi Valley. Our contractor (PLC) incurred extra costs of \$3,694.46. After discussion with ConTech, they agreed to pay for this additional cost.

The final change order, Change Order No. 4, deals with a miscalculation of the total length of the guardrail/bridge-rail system in the Bid Schedule of the Bid Packet. The initial length estimate was 300 feet, whereas the installed length was 319 feet. After lengthy discussion, the discrepancy was resolved for a total change order amount of \$2,850. Staff seeks Board approval on this final construction expenditure.

Project Location: The nearest town to the project site is Santa Ynez. Quiota Creek Crossing 3 is located off of Hwy 246 via Refugio Road 4.5 miles south of Hwy 246.

Contractor: Peter Lapidus Construction (PLC); a construction contract was issued on 9/10/15 for \$482,610 with two Board approved change orders totaling \$77,237, one change order being paid for by ConTech, and a final change order for \$2,850 pending Board approval.

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	9/30/2015
Construction start	10/1/2015
Refugio Road closure	10/1/2015
Contract Time (approximate to complete all work)	2 months
Completion Date and Refugio Road reopened	12/18/2015
Number of construction work days (WD*) (expected)	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 10/1/15 and was completed and approved by Santa Barbara County on 12/18/15. The project was successfully completed as designed. The County, regulatory agencies and landowners were pleased with the outcome of the project. PLC has done an excellent job with the project and kept project costs within the contract budget. A Notice of Completion has been filed with the County. Final reports and grant reimbursement request have been submitted to all regulatory agencies. The Project Construction Binder with the As-Built (Record) Drawings has been submitted to the County for their review, and the signed County Encroachment Permit is expected shortly.

Pending Work: Obtain the signed County Encroachment Permit. Append this completed project to the long-standing COMB-County MOU regarding maintenance of completed fish passage projects on Quiota Creek along Refugio Road.

FINANCIAL IMPACT:

A summary of the revenues, estimated costs and final expenses are as follows:

	Amount
Revenues:	
CDFW grant	\$705,205
COMB services and overhead match	\$100,198
COMB operating expenses match	\$43,880
COMB construction match	\$50,000
Total:	\$899,283
Estimated Costs:	
COMB operating expenses (match)	\$43,880
COMB construction (match)	\$50,000
Construction Contractor bid (Eng. Est. \$533,100)	\$482,610
ConTech prefabricated arch, delivery + tax	\$185,760
Total:	\$762,250
Contracted Construction:	
Construction Contract (PLC) + Match (COMB):	\$532,610
ConTech Contract Amount:	\$185,760
Approved Change Order 1:	\$43,810
Approved Change Order 2:	\$33,426
Change Order 3:	\$0
Change Order 4 (pending):	\$2,850
Adjusted Construction Contract Amount:	\$798,457

	Amount	
Total Expenditure:	FY16	FY15
PLC - Invoice 1:	\$45,600	
PLC - Invoice 2:	\$249,025	
PLC - Invoice 3:	\$106,115	
PLC - Invoice 4:	\$81,870	
PLC - Invoice CO1:	\$43,810	
PLC - Invoice CO2:	\$33,426	
PLC - Invoice CO4:	\$2,850	
ConTech Bridge (delivered + tax):	\$184,900	
Geotechnical Services (Fugro) - Invoice 1:	\$2,339	
Geotechnical Services (Fugro) - Invoice 2:	\$108	
Surveying - MNS - Invoice 1:	\$8,320	
Resident Engineer - Gino Filippin (fabrication) - Invoice 1:	\$444	
Resident Engineer - Gino Filippin (fabrication) - Invoice 2:	\$2,760	
Resident Engineer - Gino Filippin (fabrication) - Invoice 3:	\$3,338	
Resident Engineer - Gino Filippin (site construction) - Invoice 1:	\$222	
Resident Engineer - Gino Filippin (site construction) - Invoice 2:	\$7,076	
Resident Engineer - Gino Filippin (site construction) - Invoice 3:	\$1,246	
Tree Pruning - Branch Out Tree Care - Invoice 1:	\$875	
Materials Testing - Fugro (Pre-Con) - Invoice 1:	\$2,976	
Materials Testing - Fugro (Pre-Con) - Invoice 2:	\$1,584	
Materials Testing - Fugro (site construction) - Invoice 1:	\$3,464	
Materials Testing - Fugro (site construction) - Invoice 2:	\$2,203	
Materials Testing - Fugro (site construction) - Invoice 3:	\$515	
COMB Legal Counsel Bid Packet + Contract review:	\$1,495	
Manzanita Nursery (mitigation oak trees) - Invoice 1:	\$1,246	
Tri-Co Reproduction - all invoices:	\$451	
SB County Encroachment Permit Fee:	\$10,000	\$15,000
CDFW 1600 Permit Fee:	\$0	\$4,912
Total Paid:	\$798,257	\$19,912
% Estimated Costs to Total Expenditures:	104.7%	
Estimated Costs minus Total Expenditures:	-\$36,007	
Revenues minus Total Expenditures:	\$101,026	

LEGAL CONCURRENCE:

COMB legal counsel has reviewed and approved the project.

ENVIRONMENTAL COMPLIANCE:

All permits have been obtained and were followed.

COMMITTEE STATUS:

On March 1, 2016, the Fisheries Committee reviewed the final financial report for the project and pending Change Order. The Committee recommended submitting Change Order #4 to the Board for approval and finalizing the project.

RECOMMENDATION:

Board approve Change Order No. 4 for the Quiota Creek Crossing 3 Project for an amount not-to-exceed \$2,850.

LIST OF EXHIBITS:

Exhibit 1: Construction photographs:

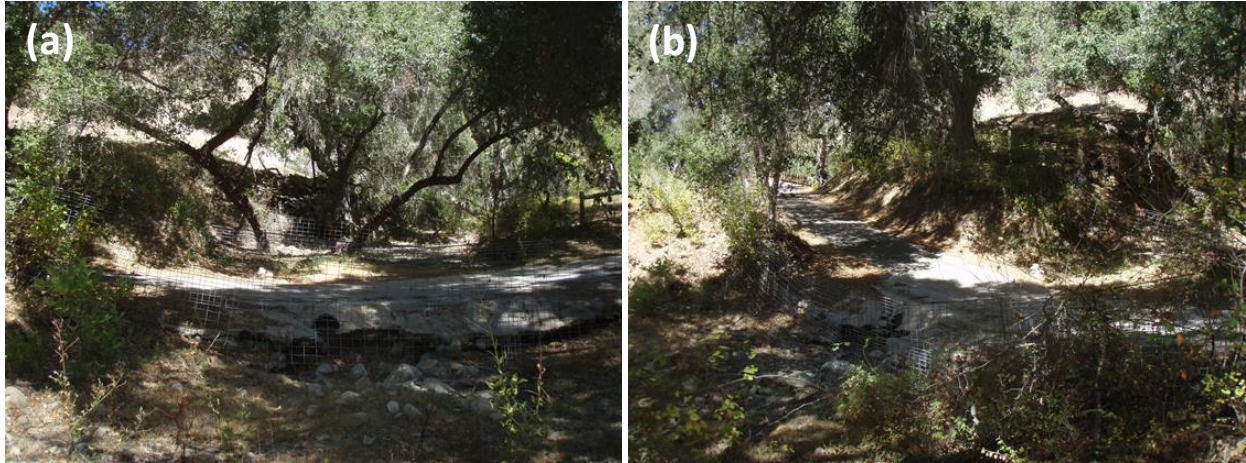


Figure 1: Pre-project condition at Crossing 3 looking (a) upstream and (b) north along the crossing.



Figure 2: Post-project condition at Crossing 3 on 1/8/16 looking (a) downstream and (b) upstream through the bridge.



Figure 3: Final replanting effort with oak trees and hydro-mulch/seed on (a) 12/21/15 and (b) 1/8/16.



Figure 4: The project with Quiota Creek flowing looking (a) upstream and (b) downstream on 3/6/16.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	March 28, 2016
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Resolution No. 611 – Acceptance of Grant Agreement with California Department of Fish and Wildlife for Fish Passage Improvement at Quiota Creek Crossing Number Four

SUMMARY:

The California Department of Fish and Wildlife (CDFW) awarded COMB a CDFW Fisheries Restoration Grant Program (FRGP) Grant for the Quiota Creek Crossing 4 Fish Passage Project. The CDFW-FRGP grant is for \$938,294. This project has a Board approved COMB \$50,000 construction match. The pending project will be reflected in the Fiscal Year 2016-2017 COMB Budget. The draft Grant Agreement for the project has been received and the final agreement is expected within a week.

FINANCIAL IMPACT:

COMB has committed to a \$50,000 construction match plus COMB services and operating expenses which are our traditional cost matches.

LEGAL CONCURRENCE:

COMB legal counsel has reviewed Resolution No. 611 and the draft Grant Agreement and will review the final Grant Agreement for consistency prior to COMB signing the agreement.

ENVIRONMENTAL COMPLIANCE:

All required permits will be secured before construction of the project begins.

COMMITTEE STATUS:

The project and funding was discussed at the March 1, 2016 Fisheries Committee meeting with the recommendation to accept the grant and move forward with the project.

RECOMMENDATION:

Approve Resolution No. 611 (Exhibit A) to enter into the CDFW-FRGP Grant Agreement P1550010 for the Quiota Creek Crossing Four Project. Authorize the COMB Interim General Manager to sign the CDFW-FRGP Grant Agreement after COMB legal counsel reviews and approves the final Grant Agreement.

LIST OF EXHIBITS:

- A. Resolution No. 611.

RESOLUTION NO. 611

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CACHUMA OPERATION AND MAINTENANCE BOARD
APPROVING AN AGREEMENT WITH CALIFORNIA DEPARTMENT OF FISH AND
WILDLIFE FOR THE FISH PASSAGE IMPROVEMENT QUIOTA CREEK CROSSING
NUMBER FOUR**

RECITALS

WHEREAS, the Cachuma Operation and Maintenance Board (COMB) is a California Joint Powers Authority organized under the provisions of California Government Code Section 6500 et seq., with power to acquire, contract for improvements, own, develop, and operate facilities for projects undertaken by its Member Units; and

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

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

WHEREAS, the fish passage improvements at Crossing Number Four on Quiota Creek, a tributary to the Lower Santa Ynez River, will provide improved access to the perennial reaches of Quiota Creek and restore habitat to enhance conditions for steelhead (the “Project”); and

WHEREAS, the California Department of Fish and Wildlife authorized disbursement of up to \$938,294 in State Fisheries Restoration Grant Program funds pursuant to a Grant Agreement (the “Agreement”) to COMB for the Project; specifically, the removal of a passage impediment/barrier for endangered steelhead at Crossing Number Four on Quiota Creek; and

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

NOW, THEREFORE, BE IT RESOLVED:

1. The Board of Directors of COMB supports the Fish Passage Improvements on Quiota Creek, including the Project at Crossing Number Four, which are considered essential to the steelhead restoration effort in the lower Santa Ynez River.

2. The Board of Directors of COMB approves entering into the Agreement with the California Department of Fish and Wildlife for the purpose of implementing the Project in accordance with that Agreement.
3. The General Manager/Secretary of COMB is authorized to execute the Agreement and approve its terms and conditions on behalf of COMB, and to contract for such services as may be required to carry out the Project using the approved grant funds.
4. This Resolution shall take effect immediately.

I certify that the foregoing Resolution No. 611 was adopted by a vote of the Board of Directors of COMB on March 28, 2016, as set forth below.

AYES:

NAYES:

ABSENT/ABSTAIN:

APPROVED:

President of the Board

ATTEST:

General Manager/Secretary



Mission Statement:

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

March 28, 2016

Interim General Manager Report

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

COMB Fiscal Year 2016-17 Operating Budget Development Process

The COMB Fiscal Year 2016-17 operating budget development process has begun with internal review and updates of the Infrastructure Improvement Plan, Habitat Improvement Plan and projected equipment, contract labor, materials and supplies, and general and administrative expenditures forecast. The draft operating budget will be provided to the Member Agency General Managers for review and comment prior to submittal to the Administrative Committee.

Cachuma Member Unit Managers Meeting

The Cachuma Member Unit Managers monthly meeting is hosted by the Santa Barbara County Water Agency and took place on Wednesday, March 2, 2016. In an effort to continue the discussion on evolving topics, the Managers concurred to conduct two additional meetings during March. The County provided the an updated graph showing a snapshot of the estimated remaining water in the lake divided into carryover water, BNA/ANA water, minimum pool, imported water stored, and unallocated water as of February 29, 2016. COMB continues to track and provide the Member Agencies' planned versus actual demand numbers related to carryover water and state/supplemental water deliveries.

As a result of discussions concerning accounting for evaporative losses, COMB has provided the Member Agencies' projections through 2016 based on the “B3” scenario (implemented by Reclamation in December) until unallocated water is exhausted. The estimated timeframe for unallocated water to be exhausted is mid-July 2016. The projections then contemplate all water subject to evaporative losses would share proportionately in actual evaporative losses each month. These accounts include carryover water balances at the end of each month and any state or supplemental water balances in storage after thirty days. ANA/BNA water is not subject to evaporative losses.

Discussions regarding unaccounted for water and carriage losses will be the subject of future meetings with the group. The next meeting is scheduled for April 6, 2016.

Bradbury Dam Penstock Coordination Study Evaluation Meeting

The Central Coast Water Authority (CCWA) has retained the services of HDR Engineering, Inc. to perform a feasibility study for improving the Bradbury penstock configuration to address all of the concerns and objectives of the penstock operation. An evaluation meeting was hosted by CCWA on Monday March 24, 2016 to discuss operational coordination issues associated with the use of the Bradbury Penstock and solicit input from stakeholders at various stages of the study to ensure that all needs of the penstock are fully considered. Once compiled, a draft feasibility study will be circulated to the stakeholder group and followed up with a meeting convened by CCWA for further comment and discussion.

Operations Division

- Drought Emergency Pumping Facility Project (EPFP)

The EPFP is currently operating at site one location with an approximate operational depth of eighteen feet. Water quality is the primary concern for that location and has been acceptable to date. The system has been operating primarily at low flows for the first half of March with a slight ramp up during the past few days.

The Notice to Proceed to relocate the Emergency Pumping Facility Project to Location 2 was hand delivered and emailed to Cushman Contracting Corp. on Wednesday, March 9, 2016. The contract provides for a 90-day period in which to complete this relocation work. Certain construction activities will not proceed until the environmental permits are approved and obtained from the appropriate regulatory agencies.

COMB Operations Division Manager met with the County Parks Operations Manager for review of barge site location and ancillary logistics information. PGE has been to the site and approved the switch gear equipment submitted and are in the process of completing engineer designs for the site 2 location.

- Lauro Stop Valve Replacement

The Lauro Stop Valve, a 42" Butterfly valve located in the upper maintenance yard of the COMB property and adjacent to the Lauro Reservoir outlet works tunnel, is primarily used to direct flow into Lauro Reservoir via the 42" flume inlet. The valve also serves as an isolation point, allowing COMB operators the ability to bypass the reservoir and supply water directly to Cater Water Treatment Plant in the event of an emergency.

During the 2015 annual valve exercise, COMB staff determined the valve to be inoperable. Subsequent inspection of the valve's internal components revealed a broken sheer pin inside the valve's gear reduction unit. A replacement sheer pin was recently purchased as an operable solution but also failed. Staff has determined replacement of the valve is necessary and will be budgeted for in Fiscal Year 2017.

- City of Santa Barbara's Development Tracking System

Through work efforts by COMB's right-of-way intern, Christopher Dudley, the City of Santa Barbara has now officially incorporated Cachuma Operation and Maintenance Board operations into the City's building and development permitting process. The incorporation into the system provides a mechanism for COMB to be notified to ensure identification of US Bureau of Reclamation easements during the City's permitting process.

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

Respectfully Submitted,

Janet Gingras

Interim General Manager

EMERGENCY PUMPING FACILITY PROJECT FY 2015/2016

Attachment A

AS OF: 2/29/2016

FY 15/16 APPROVED BUDGET

Emergency Pumping Facility Project ACCT #6120 2,709,250.00

Total Budget Approved	\$ 2,709,250.00	Total funds available FY 15/16
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FY 15/16 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Cushman Contracting	2,219,250.00	763,400.09	1,455,849.91	Construction - Phase II/Operations
HDR Engineering	100,000.00	53,731.68	46,268.32	Contract Management tasks
PGE (Site 2)	150,000.00	2,500.00	147,500.00	PGE reconducting costs (6 mo's) (Eng)
PGE	240,000.00	-	240,000.00	PGE electrical costs (6 mo's)
Musick, Peeler & Garrett	-	4,071.00	(4,071.00)	Legal costs
American Riviera Bank	-	53,728.68	(53,728.68)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	613.75	(613.75)	Materials, supplies, Permits, etc.
	\$ 2,709,250.00	\$ 878,045.20	\$ 1,831,204.80	

FY 14/15 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED*	BALANCE	Description
Cushman Contracting	3,818,000.00	3,818,976.13	-	Construction - Phase II/Operations
HDR Engineering	150,000.00	71,618.52	-	Contract Management tasks
Musick, Peeler & Garrett	-	22,609.00	-	Legal costs
PGE Construction	750,000.00	111,907.00	-	
PGE Monthly Costs	240,000.00	9,631.02	-	Electricity charges
PGE Monthly Costs	-	2,500.00	-	Deposit-pump station location #2 eng.
RMC Water & Environment	-	24,533.50	-	Prop 84, Grant Application support
Rodney Hunt-Fontaine	-	540.00	-	Stems/guides-cast/engineering
SY Band of Chumash	-	1,914.30	-	Field monitoring
Bank of Santa Barbara	-	60,120.92	-	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	1,214.97	-	Materials, supplies, Permits, etc.
	\$ 4,958,000.00	\$ 4,125,565.36	\$ -	

*Participating Member Units were assessed Actual Expenditures only.

COMBINED FY 13/14; 14/15 & 15/16 Totals			
	BUDGET	EXPENDED	BALANCE
	\$ 8,653,250.00	\$ 6,449,742.81	\$ 1,371,072.55

QB Reconciliation	1,446,132.25	QB Total Expenditures FY 13/14
	4,125,565.36	QB Total Expenditures FY 14/15
	878,045.20	QB Total Expenditures FY 15/16
	\$ 6,449,742.81	

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: March 28, 2016
TO: Janet Gingras, Interim 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 February was 749.3 acre-feet, for an average daily flow of 25.8 acre-feet. Lake elevation was 665.12 feet at the beginning of the month and 664.98 feet at the end. Storage change decreased 45 acre-feet. CCWA wheeled 685.8 acre-feet of water to Cachuma Project facilities.

Operation and Maintenance Activities

COMB Staff regularly performs the following duties:

- Weekly Safety meetings
- Weekly Rodent Bait (all reservoirs)
- Weekly Toe Drain and Piezometer reads at Ortega (L23)
- Dam inspection and reports (all reservoirs)
- Structure maintenance per Work Plan
- USA Dig Alert – Responded as necessary to alerts
- Pesticide report to County of Santa Barbara
- Operational tests of generators at the North Portal and at Lauro Yard
- Inspection of fire extinguishers
- Read anodes and rectifier data
- Water samples taken at Lake Cachuma
- Meter calibration and flushing performed on all Venturi meters
- 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:

- ✓ Power Tool Safety
- ✓ Driving Distracted
- ✓ Lyme Disease
- ✓ West Nile Virus

COMB Operations Staff specifically performed the following activities:

- Annual valve exercising at the Lauro, Sheffield, Ortega, and Carpinteria reservoirs was completed by Operations personnel.
- Annual weed abatement was completed at the Lauro yard, Lauro Reservoir, and The North Portal Site per the COMB work plan was completed. (See Photos)
- Personnel installed a new lid on the hot springs lateral located in Montecito. (See Photos)
- Installation of a replacement 10" electronic magnetic meter on the North Portal bypass line into the Tecolote tunnel was completed. (See Photos)
- The continual inspection of all dams, reservoirs, valve pits, and buildings during and after significant weather events.
- Post storm maintenance and clean-up of all debris.
- Emergency Action Plan (EAP) training was conducted by the USBR at the COMB office.
- Operations department continually inspects all sites, reservoirs, and the South Coast Conduit for items to add to the IIP for future projects.
- Several South Coast Conduit structures were cleaned and maintained in accordance to COMB's annual work plan. These structures include: 435+03 BO, 436+25 TO, 454+26 AV, 457+50 BO, 490+40 AV, 492+47 BO, 498+97 AV, 502+96 BO, 468+59 TO, 473+93 AV, 477+30 BO, 477+49 BO, 505+05 AV, 514+56 TO, 515+51 BO, 517+82 San Marcos Isolation Valve, 520+70 BO, 525+36 AV, 535+20 TO, 540+00 BO, 560+AV, 563+50 BO, 569+30 AV, 580+98 TO, 547+41 TO, 549+37 BO, 554+61 AV, 557+66 BO, 593+40 BO, 599+93 AV, 601+95 BO, 608+98 AV, 611+12 BO, 619+34 AV, 626+75 BO, 635+06 AV, 639+50 BO, 1+10 BO, 2+74 AV, 8+80 BO. (See Photos)

Additionally, Operations staff has been involved in activities related to the EPFP, IIP, and investigation of the Lower Reach AVAR conditions.

Pictures

10 Inch Electronic Magnetic meter replacement



Hot springs lateral structure cover replacement



Annual structure maintenance



Lauro weed abatement



CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: March 28, 2016
TO: Janet Gingras, Interim General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- The 2012 Annual Monitoring Summary has been completed and posted on the COMB-FMP webpage.
- The Hilton Creek Emergency Backup System (HCEBS) currently is delivering water to Hilton Creek by gravity flow at a flow rate of approximately 1.25 cfs. At that low flow rate, only one migrating adult has been able to move into Hilton Creek from the Lower Santa Ynez River and no redds have been observed.

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

LSYR Steelhead Monitoring Elements:

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

Redd Surveys: Redd surveys are conducted approximately every two weeks from mid-January through May. Surveys were initiated in January within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access was permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Plan. The redd surveys to date have observed only one redd in Salsipuedes Creek; no redds have been observed in Hilton Creek or Quiota Creek to date.

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

Tributary Project Updates:

Quiota Creek Crossing 0: COMB received a 2014 CDFW-FRGP Grant for \$671,635 with a landowner construction match of \$50,000. The COMB Board accepted the grant on 3/23/15. Staff and HDR have met several times with the two landowners associated with the project. The downstream landowner at Crossing 0A is in full agreement with the project and designs whereas the upstream landowner at Crossing 0B has declined the project. All resources have now been shifted to Crossing 0A which we plan to construct this fall 2016 pending design approval and acquiring permits. Designs will be submitted to the County and CDFW-NMFS as well as permits submitted prior to the end of March. This project was discussed at the 3/1/16 Fisheries Committee meeting.

Quiota Creek Crossing 3: This project has been completed. The final financial summary will be presented in a separate COMB Board memo.

Quiota Creek Crossing 4: COMB was awarded a 2015 CDFW-FRGP Grant on 3/30/15 for \$938,295 with a COMB construction match of \$50,000. The project and funding was discussed at the 3/1/16 Fisheries Committee meeting with recommendation to accept the grant and move forward with the project.

Quiota Creek Crossing 8: This project and the required Cooperative Agreement with the County will be discussed at the next Fisheries Committee meeting.

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. An additional contract modification (Mod-005) is in process to have the contractor install security fencing and lighting for the HCEBS. With this system fully operational, USBR can now work on identified repairs to the HCWS which will be scheduled soon.

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, and the 2015 WR 89-18 release started on 8/3/15 and ended on 9/26/15. 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. Determination of critical drought and the associated accounting has not been finalized and is not reflected in Table 1.

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

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	0	3,200
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		14,263	
Total:	9,184	19,896	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 2/29/16.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

Reporting / Outreach / Training

Reporting: The 2012 Annual Monitoring Summary has been completed and posted on the COMB-FMP webpage. The draft 2013 AMR has been sent to the Science Review Team. Staff is also working on the draft 2014 AMR.

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 Garello) – Design and reporting work for the Quiota Creek Crossings 0, 3, 4 and 8 projects.

Stetson Engineers (Ali Shahroody) – Santa Ynez River hydrological analyses.

Cardno (Jean Baldrige) – BO compliance tasks and support.

Hanson Environmental (Chuck Hanson) – BO compliance tasks and support.

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	March 28, 2016
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: Lake Cachuma Oak Tree Restoration Program

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since June 1, 2015 to the present (6/1/15 – 3/28/16, Table 1). Labor and expenses for the entire fiscal year (July 2015 - June 2016) as well as water usage will be tracked separately but not reported as recommended by the COMB Board Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees to conduct the majority of oak tree work in the field. The inventory of all trees planted has been presented to the Lake Cachuma Oak Tree Committee at its 2/25/16 meeting as well as the 2015 Lakeshore Survey, which sets the mitigation number for 2015. Both the 2014 Annual Report and 2015 Lakeshore Survey have been completed and distributed to the COMB Board.

Table 1: Cachuma Oak Tree Program completed tasks since 6/1/15.

	June 2015	July 2015	August 2015	Sept 2015	Oct 2015	Nov 2015*	Dec 2015*	Jan 2016	Feb 2016**	March 2016
Year 8 Oaks (2015-2016)							New Trees Gopher Baskets Fertilizer/Compost Deer Cages Mulched/Irrigated	New Trees Gopher Baskets Fertilizer/Compost Deer Cages Mulched/Irrigated	New Trees Gopher Baskets Fertilizer/Compost Deer Cages Mulched/Irrigated	Irrigated
Year 7 Oaks (2014-2015)	Irrigated Weeded Cage maint.	Irrigated Weeded Cage maint.	Irrigated Weeded Cage maint.	Irrigated Weeded Cage maint.	Irrigated Weeded				Weeded Mulched	Irrigated Mulched Weeded
Year 6 Oaks (2010-2011)	Cage maint.				Weeded Mulched					
Year 5 Oaks (2009-2010)					Irrigated Fertilized					
Year 4 Oaks (2008-2009)						Irrigated Fertilized Cage maint.				Cage maint.
Year 3 Oaks (2007-2008)						Irrigated Fertilized Cage maint.				Cage maint.
Year 2 Oaks (2006-2007)	Irrigated Weeded					Fertilized				
Year 1 Oaks (2005-2006)	Irrigated Weeded					Fertilized				

*November and December work included annual oak tree inventory

**February work included Year 8 oak tree inventory

The planting of new oak trees (Year 8) during the fall of 2015 and winter of 2016 was completed in February. Approximately 807 new oak trees were planted. The Fisheries Division irrigated all of the new Year 8 oak trees and the Year 7 oak trees in February and March. With fish trapping season underway at Hilton Creek,

the Fisheries Division has been spending their time maintaining the oak trees in between trap checks. Maintenance has included irrigating, weeding, mulching, and cage maintenance at multiple locations.

FINANCIAL IMPACT: Tracked but not included.

LEGAL CONCURRENCE: N/A

ENVIRONMENTAL COMPLIANCE: N/A

COMMITTEE STATUS: N/A

RECOMMENDATION: For Board information only.

LIST OF EXHIBITS: N/A

CACHUMA OPERATION AND MAINTENANCE BOARD
METERED USE REPORT FOR FEBRUARY 2016

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Ortega South Flow *		0.00	18+62	G. WEST	25.63
Asegra Road		0.00	78+00	Corona Del Mar FILTER Plant	173.85
Lambert Road		0.00	122+20	STOW RANCH	0.00
Toro Canyon		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)	(197.48)
			TOTAL		0.00
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	29.24
			386+65	MWD YARD	0.00
			487+07	VALLEY CLUB	0.44
			499+65	E. VALLEY-ROMERO PUMP	105.04
			599+27	TORO CANYON	0.21
			510+95	ORTEGA CONTROL	0.00
			510+95	MWD PUMP (SWD)	4.93
			526+43	ASEGRA RD	2.13
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
				SWP CREDIT (Warren Act Contract)	(125.00)
			TOTAL		17.01
			CITY OF SANTA BARBARA		
			CATER	INFLOW	668.99
			"	SO. FLOW	(255.78)
			Gibraltar	PENSTOCK	(49.23)
			Sheffield	SHEF.LIFT	92.93
				STANWOOD MTR TO SCC-credit	0.00
				SWP (Warren Act)	(366.00)
				La Cumbre Mutual SWP (Warren Act)	(6.23)
			TOTAL		84.68
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		1.26
			TOTAL		1.26
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		693.00
			STATE WATER TO SOUTH COAST (including from storage)		(696.71)
			BISHOP RANCH DIVERSION		0.00
			METERED DIVERSION		102.94
			STATE WTR CREDIT 0.00		
TOTAL		0.00			
Note: COMB meter reads were taken on 2/29/2016					
* Ortega South flow valve closed - no usage charges to CVWD					

15-16 ENTITLEMENT

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

(All in rounded Acre Feet)

	MONTH					YTD
	TOTAL					TOTAL
WATER PRODUCTION:						
Cachuma Lake (Tec. Diversion)*				749		5,631
Tecolote Tunnel Infiltration				112		364
Glen Anne Reservoir				0		0
Cachuma Lake (County Park)				1		7
State Water Diversion Credit				697		1,386
Bishop Ranch Diversion				0		0
Meter Reads				103		4,264
So. Coast Storage gain/(loss)				(4)		9
Total Production				862		6,001
Total Deliveries				796		5,659
Unaccounted-for				66		343
% Unaccounted-for				7.70%		5.71%
	GWD	SB CITY	MWD	CVWD	SYRWCD	TOTAL
WATER USE:						
					I.D. #1	
M&I	0	85	16	0	1	102
Agricultural	0		1	0		1
TOTAL FOR MONTH	0	85	17	0	1	103
Same Mo/prev. yr	0	5	0	4	2	11
M&I Yr to date	1,034	1,720	710	123	6	3,593
Ag. Yr to date	413	0	81	176	0	670
TOTAL YTD	1,447	1,720	791	299	6	4,263
USAGE % YTD	66.7%	39.1%	22.7%	25.7%	11.2%	37.8%
Previous Year/YTD	1,543	887	0	483	9	2,922
Evaporation #	0	0	0	0	0	0
Evaporation, YTD	0	0	0	0	0	0
Entitlement ***	0	0	0	0	0	0
Carryover	2,168	4,399	3,486	1,165	56	11,274
Carryover Balances Spilled YTD	0	0	0	0	0	0
Surplus^^	0	0	0	0	0	0
State Water Exchange^	0	0	0	0	0	0
Transfers/Adjustment #	0	0	0	0	0	0
Transfers/Adjustment ~	0	0	0	0	0	0
Passthrough H2O**	0	0	0	0	0	0
TOTAL AVAILABLE	2,168	4,399	3,486	1,165	56	11,274
REMAINING BALANCE	721	2,679	2,695	866	50	7,011

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

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

State Water Deliveries for February to Lake Cachuma were: MWD 125 AF; CVWD 0 AF
GWD 200 AF (Morehart 2 AF); City of S.B. 366 AF; and LaCumbre 0 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 February 2016.

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

* Scada read from EPPF - Bypass meter in NP inaccurate

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: February 2016

GLEN ANNIE RESERVOIR

Capacity at 385' elevation:	518 Acre Feet
Capacity at sill of intake at 334' elevation:	21 Acre Feet
Stage of Reservoir Elevation	334.00 Feet
Water in Storage	24.31 Acre Feet

LAURO RESERVOIR

Capacity at 549' elevation:	600 Acre Feet
Capacity at sill of intake at 512' elevation:	84.39 Acre Feet
Stage of Reservoir Elevation	547.10 Feet
Water in Storage	551.91 Acre Feet

ORTEGA RESERVOIR

Capacity at 460' elevation:	65 Acre Feet
Capacity at outlet at elevation 440':	0 Acre Feet
Stage of Reservoir Elevation	446.60 Feet
Water in Storage	18.26 Acre Feet

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45 Acre Feet
Capacity at outlet elevation 362':	0 Acre Feet
Stage of Reservoir Elevation	374.40 Feet
Water in Storage	22.20 Acre Feet

TOTAL STORAGE IN RESERVOIRS

Change in Storage	592.37 Acre Feet
	-3.60 Acre Feet

CACHUMA RESERVOIR*

Capacity at 750' elevation:	184,121 Acre Feet
Capacity at sill of tunnel 660' elevation:	24,281 Acre Feet

Stage of Reservoir Elevation	664.98 Feet
Water in Storage	28,579 AF
Surface Area	897
Evaporation	251.4 AF
Inflow	255.0 AF
Downstream Release WR8918	0.0 AF
Fish Release (Hilton Creek)	72.5 AF
Outlet	128.5 AF
Spill/Seismic Release	0 AF
State Project Water	693 AF
Change in Storage	-45 AF
Tecolote Diversion	749.0 AF

Rainfall: Month: 1.65 Season: 8.01 Percent of Normal: 56%

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

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

Contract Entity: **Carpinteria Valley Water District**
 Last updated by C.O.M.B. 2/29/16

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES					WATER USED CHARGED TO CURRENT ENTITLEMENT		
			Acre-feet			Acre-feet			Allocation		Acre-feet		
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	1165	56	84	140	0	140	140	56	84	0	0	0
Nov			20	32	52	0	52	52	20	32	0	0	0
Dec			47	60	107	0	107	107	47	60	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0
Mar			0	0	0								
Apr			0	0	0								
May			0	0	0								
Jun			0	0	0								
Jul			0	0	0								
Aug			0	0	0								
Sep			0	0	0								
Total	0	1165	123	176	299								

CONVERSIONS						
STORAGE WATER		CURRENT SCHEDULE				Month
M & I	Agr	M & I	Agr			
0	0	0	0			Oct
0	0	0	0			Nov
0	0	0	0			Dec
0	0	0	0			Jan
0	0	0	0			Feb
						Mar
						Apr
						May
						Jun
						Jul
						Aug
						Sep

SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
	Total	M&I	AG	M&I	AG	Total
Begin Bal	1,165	600	565	0	0	0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0

REMAINING BALANCES						
Month	Total	M&I	AG	M&I	AG	Total
Oct	1,025	544	481	0	0	0
Nov	973	524	449	0	0	0
Dec	866	477	389	0	0	0
Jan	866	477	389	0	0	0
Feb	866	477	389	0	0	0
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL 866

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

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

Contract Entity: **Goleta Water District**
 Last updated by C.O.M.B. 2/29/16

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED Acre-feet			WATER USED CHARGED TO CARRYOVER BALANCES Acre-feet				WATER USED CHARGED TO CURRENT ENTITLEMENT Acre-feet			
			M & I	Agr	Total	Evap	Div	Total	Allocation		M & I	Agr	Total
									M & I	Agr			
Oct	0	2168	397	170	567	0	567	567	397	170	0	0	0
Nov			319	137	456	0	456	456	319	137	0	0	0
Dec			318	106	424	0	424	424	318	106	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0	0
Mar			0	0									
Apr			0	0									
May			0	0									
Jun			0	0									
Jul			0	0									
Aug			0	0									
Sep			0	0									
Total	0	2168	1,034	413	1,447								

STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		Month
M & I	Agr	M & I	Agr	M & I	Agr	
0	0	0	0	0	0	Oct
0	0	0	0	0	0	Nov
0	0	0	0	0	0	Dec
0	0	0	0	0	0	Jan
0	0	0	0	0	0	Feb
						Mar
						Apr
						May
						Jun
						Jul
						Aug
						Sep

SCHEDULES AND REVISIONS						
	Total	M&I	AG	M&I	AG	Total
Begin Bal	2,168	1,446	722	0	0	0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0

REMAINING BALANCES						
Month	Total	M&I	AG	M&I	AG	Total
Oct	1,601	1,049	552	0	0	0
Nov	1,145	730	415	0	0	0
Dec	721	412	309	0	0	0
Jan	721	412	309	0	0	0
Feb	721	412	309	0	0	0
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL 721

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

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

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 2/29/16

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES					WATER USED CHARGED TO CURRENT ENTITLEMENT			
			Acre-feet			Acre-feet			Allocation		Acre-feet			
			M & I	Agr	total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total	
Oct		0	3486	263	34	297	0	297	297	263	34	0	0	0
Nov				175	25	200	0	200	200	175	25	0	0	0
Dec				177	15	192	0	192	192	177	15	0	0	0
Jan				81	6	87	0	87	87	81	6	0	0	0
Feb				16	1	17	0	17	17	16	1	0	0	0
Mar				0	0									
Apr				0	0									
May				0	0									
Jun				0	0									
Jul				0	0									
Aug				0	0									
Sep				0	0									
Total		0	3486	711	81	792								

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

REMAINING BALANCES						
Month	Total	M & I	Agr	M & I	Agr	Total
Oct	3,189	2,960	313	0	0	0
Nov	2,989	2,785	288	0	0	0
Dec	2,797	2,608	273	0	0	0
Jan	2,711	2,527	267	0	0	0
Feb	2,694	2,511	266	0	0	0
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

TOTAL 2,694

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

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

Contract Entity: **City of Santa Barbara**
 Last updated by C.O.M.B. 2/29/16

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USE CHARGED TO CARRYOVER BALANCES					WATER USE CHARGED TO CURRENT ENTITLEMENT		
			Acre-feet			Acre-feet			Allocation		Acre-feet		
			M & I	Agr	total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	4399	667	0	667	0	667	667	667	0	0	0	0
Nov			487	0	487	0	487	487	487	0	0	0	0
Dec			447	0	447	0	447	447	447	0	0	0	0
Jan			34	0	34	0	34	34	34	0	0	0	0
Feb			85	0	85	0	85	85	85	0	0	0	0
Mar			0	0									
Apr			0	0									
May			0	0									
Jun			0	0									
Jul			0	0									
Aug			0	0									
Sep			0	0									
Total	0	4399	1,720	0	1,720								

STORAGE WATER		CONVERSIONS CURRENT SCHEDULE		Month
M & I	Agr	M & I	Agr	
0	0	0	0	Oct
0	0	0	0	Nov
0	0	0	0	Dec
0	0	0	0	Jan
0	0	0	0	Feb
				Mar
				Apr
				May
				Jun
				Jul
				Aug
				Sep

SCHEDULE AND REVISIONS				
Begin Bal	Total	M&I	M&I	Total
	4,399	4,399	0	0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0
				0

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

TOTAL 2,679

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

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

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**
 Last updated by C.O.M.B. 2/29/16

Month	Approved Schedule		WATER USE CHARGED TO CARRYOVER BALANCES						WATER USE CHARGED TO CURRENT ENTITLEMENT			
	Current Year	Previous Year	TOTAL WATER USED			Acre-feet			Acre-feet			
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	Total	
Oct	0	56	2	0	2	0	2	2	2	0	0	0
Nov			1	0	1	0	1	1	1	1	0	0
Dec			1	0	1	0	1	1	1	1	0	0
Jan			1	0	1	0	1	1	1	1	0	0
Feb			1	0	1	0	1	1	1	1	0	0
Mar			0	0	0							
Apr			0	0	0							
May			0	0	0							
Jun			0	0	0							
Jul			0	0	0							
Aug			0	0	0							
Sep			0	0	0							
Total	0	56	6	0	6							

CONVERSIONS

STORAGE WATER		CURRENT SCHEDULE		Month
M & I	Agr	M & I	Agr	
2	-2	0	0	Oct
1	-1	0	0	Nov
1	-1	0	0	Dec
1	-1	0	0	Jan
1	-1	0	0	Feb
				Mar
				Apr
				May
				Jun
				Jul
				Aug
				Sep

SCHEDULE AND REVISIONS

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

*NOTE:

COUNTY PARKS

Month	REMAINING BALANCES	
	A.F. Used	Total
Oct	1.61	54
Nov	1.38	53
Dec	1.38	52
Jan	0.97	51
Feb	1.26	50
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		

TOTAL 50

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

Contract Entity: **Santa Barbara Co. Water Agency**
 Last updated by **C.O.M.B. 2/29/16**

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

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES					WATER USED CHARGED TO CURRENT ENTITLEMENT		
			Acre-feet				Acre-feet			Allocation		Acre-feet		
			Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	0	11274	14.84%	1,385	288	1,673	0	1,673	1,673	1,385	288	0	0	0
Nov			10.61%	1,002	194	1,196	0	1,196	1,196	1,002	194	0	0	0
Dec			10.39%	990	181	1,171	0	1,171	1,171	990	181	0	0	0
Jan			1.08%	116	6	122	0	122	122	116	6	0	0	0
Feb			0.92%	102	1	103	0	103	103	102	1	0	0	0
Mar				0	0									
Apr				0	0									
May				0	0									
Jun				0	0									
Jul				0	0									
Aug				0	0									
Sep				0	0									
Total	0	11274		3,595	670	4,265								

CONVERSIONS

STORAGE WATER		CURRENT SCHEDULE		Month
M & I	Agr	M & I	Agr	
2	-2	0	0	Oct
1	-1	0	0	Nov
1	-1	0	0	Dec
1	-1	0	0	Jan
1	-1	0	0	Feb
				Mar
				Apr
				May
				Jun
				Jul
				Aug
				Sep

SCHEDULE AND REVISIONS

	Total	M & I	Agr	M & I	Agr	Total
Begin Bal	11,274	9,668	1,606	0	0	0
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	0	0	0	0	0
Jan	0	0	0	0	0	0
Feb	0	0	0	0	0	0
Mar	0	0	0	0	0	0
Apr	0	0	0	0	0	0
May	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

COUNTY PARKS

REMAINING BALANCES

Month	A.F. Used	Total	M & I	Agr	M & I	Agr	Total
Oct	1.61	9,601	8,285	1,400	0	0	0
Nov	1.38	8,405	7,284	1,205	0	0	0
Dec	1.38	7,234	6,295	1,023	0	0	0
Jan	0.97	7,113	6,180	1,016	0	0	0
Feb	1.26	7,009	6,079	1,014	0	0	0
Mar							
Apr							
May							
Jun							
Jul							
Aug							
Sep							

TOTAL 7,009

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

MONTH	DELVRD	Delvd	CVWD	Delvd	Evap	Delvd	MWD	Evap/	Delvd	Delvd	S.B.	Delvd	Delvd	GWD	Evap/	Delvd	Delvd	LCMWC	Delvd	Delvd	RSYS	Delvd	Delvd	MLC	Delvd
	TO LAKE	to Lake	Stored	to SC		to Lake	Stored	Spill	to SC	to Lake	Stored	to SC	to Lake	Stored	Spill	to SC	to Lake	Stored	Evap/Spill	to SC	to Lake	Stored	to SC	to Lake	Stored
2015																									
Bal. Frwd	0	0	0	0	0	0	874	0	0	0	0	0	0	0	0	0	0	609	0	0	0	0	0	0	0
January	833	0	0	0	0	0	765	5	104	363	0	363	470	201	0	269	0	561	3	44	0	0	0	0	0
February	789	0	0	0	0	0	650	7	107	366	0	366	423	492	2	130.1	0	510	5	46	0	0	0	0	0
March	1284	170	52	118	0	282	725	11	195.9	363	0	363	462	444	9	501	0	456	9	46	5	0	5	2	0
April	1152	192	130	111	3	331	807	18	231.4	428	0	428	193	0	11	626	0	434	11	11	5	0	5	3	0
May	658	108	139	95	4	237	762	23	258.7	305	0	305	0	0	0	0	0	413	13	8	5	0	5	3	0
June	371	0	50	84	6	0	507	30	224.7	366	0	366	0	0	0	0	0	390	16	6	0	0	0	5	0
July	306	0	0	48	2	0	186	21	299.6	306	0	306	0	0	0	0	0	368	16	6	0	0	0	0	0
August	40	0	0	0	0	0	0	12	174	35	0	35	0	0	0	0	0	340	24	5	0	0	0	5	0
September	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	340	22	13	0	0	0	7	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288	15	37	0	0	0	0	0
November	60	20	0	20	0	20	0	0	20	20	0	20	0	0	0	0	0	217	9	63	0	0	0	0	0
December	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	5	72	0	0	0	7	0
Total	5542	490	0	475.7	14	870	0	128	1616	2552	0	2552	1548	0	21	1526	35	140	149	355	15	0	15	32	0

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

MONTH	DELVRD	Delvd	CVWD	Delvd	Evap	Delvd	MWD	Evap/	Delvd	Delvd	S.B.	Delvd	Delvd	GWD	Evap/	Delvd	Delvd	LCMWC	Delvd	Delvd	RSYS	Delvd	Delvd	MLC	Delvd
	TO LAKE	to Lake	Stored	to SC		to Lake	Stored	Spill	to SC	to Lake	Stored	to SC	to Lake	Stored	Spill	to SC	to Lake	Stored	Evap/Spill	to SC	to Lake	Stored	to SC	to Lake	Stored
2016																									
Bal. Frwd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0
January	653	54	38	16	0	0	0	0	0	367	0	367	200	136	0	64	30	157	3	10	0	0	0	2	0
February	693	0	37	0	1	125	0	0	125	366	0	366	200	138	8	197.5	0	142	9	6	0	0	0	2	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1346	54	37	16	1	125	0	0	125	733	0	733	400	138	8	262	30	142	12	16	0	0	0	4	0